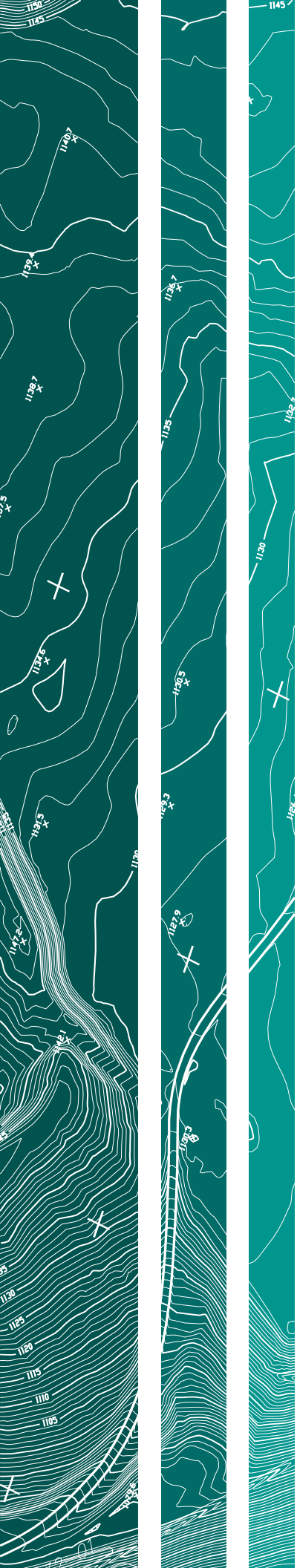


GEOCON

# GEOTECHNICAL INVESTIGATION

ORANGE COUNTY YOUTH TRANSITION CENTER
PROJECT (OC YTC)
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

MARCH 15, 2024
PROJECT NO. W1857-88-01

PREPARED FOR:
Balfour Beatty Construction
San Diego, California

Project No. W1857-88-01
March 15, 2024

Balfour Beatty Construction, LLC
13530 Evening Creek Drive North, Suite 270
San Diego, CA 92128

Subject: GEOTECHNICAL INVESTIGATION
ORANGE COUNTY YOUTH TRANSITION CENTER PROJECT (OC YTC)
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

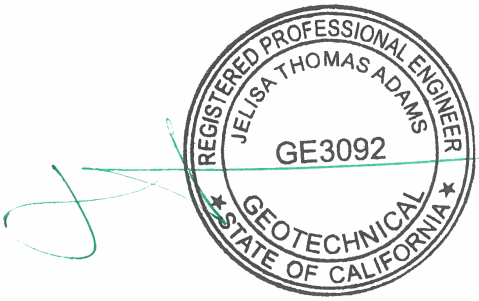
Ladies and Gentlemen:

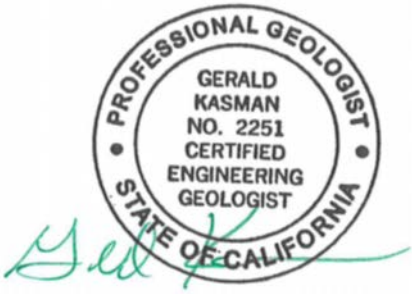
In accordance with your authorization of our proposal dated November 17, 2023, we have performed a geotechnical investigation for the proposed Orange County Youth Transition Center project (OC YTC) located at 331 The City Drive South in the City of Orange, California. The accompanying report presents the findings of our study and our conclusions and recommendations pertaining to the geotechnical aspects of proposed design and construction. Based on the results of our investigation, it is our opinion that the project can be developed as proposed, provided the recommendations of this report are followed and implemented during design and construction.

If you have any questions regarding this report, or if we may be of further service, please contact the undersigned.

Very truly yours,

GEOCON WEST, INC.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# GEOTECHNICAL INVESTIGATION

## 1. PURPOSE AND SCOPE

This report presents the results of a geotechnical investigation for the proposed Orange County Youth Transition Center (YTC) project located at 331 The City Drive South, in the City of Orange, California (see Vicinity Map, Figure 1). The purpose of the investigation was to evaluate subsurface soil and geologic conditions underlying the site and, based on conditions encountered, to provide conclusions and recommendations pertaining to the geotechnical aspects of proposed design and construction.

The scope of this investigation included a site reconnaissance, field exploration, laboratory testing, engineering analysis, and the preparation of this report. The site was explored between February 7 and 13, 2024, by excavating eight 8-inch-diameter borings using a truck-mounted hollow-stem auger drilling machine and a limited access drilling machine to depths between 5 and 63.5 feet beneath the ground surface. Additionally, five borings were excavated using 3-inch hand augers to depths between 15 and 16½ feet beneath the ground surface. Percolation testing was performed in two borings to determine the infiltration rate of site soils. Three Cone Penetrometer Tests (CPTs) were advanced on February 12, 2024, to approximate depths of 63 to 100 feet below the ground surface using a truck-mounted 30-ton CPT rig. The approximate locations of the exploratory borings and CPT soundings are depicted on the Site Plan (see Figure 2). A detailed discussion of the field investigation, including boring logs and CPT soundings, are presented in Appendix A.

Laboratory tests were performed on selected soil samples obtained during the investigation to determine pertinent physical and chemical soil properties. Appendix B presents a summary of the laboratory test results.

The recommendations presented herein are based on analysis of the data obtained during the investigation and our experience with similar soil and geologic conditions. References reviewed to prepare this report are provided in the *List of References* section.

If project details vary significantly from those described herein, Geocon should be contacted to determine the necessity for review and possible revision of this report.

# 2. SITE AND PROJECT DESCRIPTION

The subject site is located at 331 The City Drive South in the City of Orange, California. The site is occupied by a youth detention center comprised of one- to two-story dormitories and classrooms, a multipurpose rehabilitation center, and grass fields. The approximate boundary of the area of proposed construction is shown on the Site Plan (see Figure 2). The site is bounded by Service Way South to the north, by Sidwell Way to the east, Justice Center Way to the south, and by the Lamoreaux Justice Center to the west. The site is relatively level and surface water drainage at the site appears to flow to the site drains.

Based on the information provided by the Client, it is our understanding that the proposed project consists of approximately 88,000 gross square feet of new building area and includes site access, new parking areas, outdoor recreation and landscape development and connections to existing Juvenile Hall systems and infrastructure. To create a clear area for construction of new facilities, the project includes demolition of several occupied and unoccupied buildings, perimeter security fencing, site amenities and landscaping. The proposed structures are anticipated to be one- to two-story and constructed at or near present grade. It is anticipated that both masonry and wood framed construction will be used. The existing site conditions are depicted on the Site Plan (see Figure 2). Plans for the proposed project are still being developed and were not available for inclusion in this report.

Based on the preliminary nature of the design at this time, wall and column loads were not available. It is anticipated that column loads for the proposed structures will be up to 20 kips, and wall loads will be up to 2 kips per linear foot.

Once the design phase and foundation loading configuration proceeds to a more finalized plan, the recommendations within this report should be reviewed and revised, if necessary. Any changes in the design, location or elevation of any structure, as outlined in this report, should be reviewed by this office. Geocon should be contacted to determine the necessity for review and possible revision of this report.

# 3. GEOLOGIC SETTING

The subject site is located on the south-central portion of the Orange County Coastal Plain, a relatively flat-lying alluviated surface with an average slope of less than 20 feet per mile. The lowland surface is bounded by hills and mountains on the north and east, and by the Pacific Ocean to the south and southwest. Prominent structural features within the Orange County Coastal Plain include the central lowland plain, the northwest trending line of low hills and mesas underlain by the Newport-Inglewood Fault Zone along the coast (Newport Mesa, Huntington Beach Mesa, Bolsa Chica Mesa, and Landing Hill), and the San Joaquin Hills to the southeast.

# 4. SOIL AND GEOLOGIC CONDITIONS

Based on published geologic maps of the area, the site is underlain by artificial fill and Holocene age young alluvial fan deposits that consist of sand and silt, with lesser amounts of clay (California Geological Survey, 2012). Detailed stratigraphic profiles of the materials encountered at the site are provided on the boring logs and CPT soundings in Appendix A.

## 4.1 Artificial Fill

Artificial fill was encountered in our explorations to a maximum depth of 3½ feet below existing ground surface. The artificial fill generally consists of dark brown silty sand and sandy silt that can be characterized as moist and loose to medium dense or firm. The fill is likely the result of past grading or construction activities at the site. Deeper fill may exist between excavations and in other portions of the site that were not directly explored.

## 4.2 Young Alluvium

Holocene age alluvial fan deposits were encountered beneath the fill. The alluvium generally consists of brown to yellowish brown, or grayish brown silty sand and poorly graded sand with minor interbeds of sandy silt and sandy clay and various amounts of fine- to coarse-gravel. The alluvial soils are characterized as poorly- to well-graded sand, slightly moist to wet and soft to firm or loose to dense.

# 5. GROUNDWATER

Review of the Seismic Hazard Zone Report for the Anaheim Quadrangle (California Division of Mines and Geology [CDMG], 1998, revised 2001) indicates that the historically highest groundwater level in the area is between 30 and 40 feet beneath the existing ground surface. Groundwater information presented in this document is generated from data collected in the early 1900's to the late 1990s.

Groundwater was encountered in our borings at a depth of approximately 54 feet below the existing ground surface. The groundwater measurements were performed in a manner that is typical of geotechnical exploration and should not be interpreted as representing a fully equalized water level.

Based the reported historic high groundwater levels in the immediate area (CDMG, 2001), and the depth of proposed construction, static groundwater is neither expected to be encountered during construction, nor have a detrimental effect on the project. However, it is not uncommon for groundwater levels to vary seasonally or for groundwater seepage conditions to develop where none previously existed (especially in impermeable fine-grained soils which are heavily irrigated or after seasonal rainfall), groundwater seepage levels encountered during construction may be actually higher than those encountered during our investigation. In addition, recent requirements for storm water infiltration could result in shallower seepage conditions in the region. Proper surface drainage of irrigation and precipitation will be critical for future performance of the project. Recommendations for drainage are provided in the Surface Drainage section of this report (see Section 7.16).

# 6. GEOLOGIC HAZARDS

## 6.1 Surface Fault Rupture

The numerous faults in Southern California include Holocene-active, pre-Holocene, and inactive faults. The criteria for these major groups are based on criteria developed by the California Geological Survey (CGS, formerly known as CDMG) for the Alquist-Priolo Earthquake Fault Zone Program (CGS, 2018). By definition, a Holocene-active fault is one that has had surface displacement within Holocene time (about the last 11,700 years). A pre-Holocene fault has demonstrated surface displacement during Quaternary time (approximately the last 1.6 million years) but has had no known Holocene movement. Faults that have not moved in the last 1.6 million years are considered inactive.

The site is not within a state-designated Alquist-Priolo Earthquake Fault Zone (CGS, 2024a; 2024b) for surface fault rupture hazards. No Holocene-active or pre-Holocene faults with the potential for surface fault rupture are known to pass directly beneath the site. Therefore, the potential for surface rupture due to faulting occurring beneath the site during the design life of the proposed development is considered low. However, the site is located in the seismically active Southern California region, and could be subjected to moderate to strong ground shaking in the event of an earthquake on one of the many active Southern California faults. The faults in the vicinity of the site are shown in Figure 3, Regional Fault Map.

The closest surface trace of a Holocene-active fault to the site is the Newport-Inglewood Fault Zone located approximately 9.7 miles to the southwest. Other nearby active faults are the Whittier Fault, the Chino Fault, the Elsinore Fault, and the Palos Verdes Fault Zone (offshore segment) located approximately 10 miles to the north-northeast, 15 miles to the northeast, 16 miles to the northeast, and 19 miles to the southwest, respectively (USGS, 2006; Ziony and Jones, 1989). The active San Andreas Fault Zone is located approximately 41 miles northeast of the site (USGS, 2006; Ziony and Jones, 1989).

Several buried thrust faults, commonly referred to as blind thrusts, underlie the Southern California area at depth. These faults are not exposed at the ground surface and are typically identified at depths greater than 3.0 kilometers. The October 1, 1987 $M_w$ 5.9 Whittier Narrows earthquake and the January 17, 1994 $M_w$ 6.7 Northridge earthquake were a result of movement on the Puente Hills Blind Thrust and the Northridge Thrust, respectively. The Puente Hills Blind Thrust underlies the site at depth. These thrust faults and others in the Los Angeles area are not exposed at the surface and do not present a potential surface fault rupture hazard at the site; however, these deep thrust faults are considered active features capable of generating future earthquakes that could result in moderate to significant ground shaking at the site.

## 6.2 Seismicity

As with all of Southern California, the site has experienced historic earthquakes from various regional faults. The seismicity of the region surrounding the site was formulated based on research of an electronic database of earthquake data. The epicenters of recorded earthquakes with magnitudes equal to or greater than 5.0 in the site vicinity are depicted on Figure 4, Regional Seismicity Map. A partial list of moderate to major magnitude earthquakes that have occurred in the Southern California area within the last 100 years is included in the table on the following page.

**LIST OF HISTORIC EARTHQUAKES**

| Earthquake (Oldest to Youngest) | Date of Earthquake | Magnitude | Distance to Epicenter (Miles) | Direction to Epicenter |
|---|---|---|---|---|
| Long Beach | March 10, 1933 | 6.4 | 12 | SSW |
| Tehachapi | July 21, 1952 | 7.5 | 106 | NW |
| San Fernando | February 9, 1971 | 6.6 | 52 | NW |
| Whittier Narrows | October 1, 1987 | 5.9 | 22 | NW |
| Sierra Madre | June 28, 1991 | 5.8 | 34 | NNW |
| Landers | June 28, 1992 | 7.3 | 88 | ENE |
| Big Bear | June 28, 1992 | 6.4 | 67 | ENE |
| Northridge | January 17, 1994 | 6.7 | 47 | NW |
| Hector Mine | October 16, 1999 | 7.1 | 108 | ENE |

The site could be subjected to strong ground shaking in the event of an earthquake. However, this hazard is common in Southern California and the effects of ground shaking can be minimized if the proposed structures are designed and constructed in conformance with current building codes and engineering practices.

## 6.3 Seismic Design Criteria

The following table summarizes the site-specific design criteria obtained from the 2022 California Building Code (CBC; Based on the 2018 International Building Code [IBC] and ASCE 7-16), Chapter 16 Structural Design, Section 1613 Earthquake Loads. The data was calculated using the online application U.S. Seismic Design Maps, provided by the Structural Engineers Association of California (SEAOC). The short spectral response uses a period of 0.2 second. We evaluated the Site Class based on the discussion in Section 1613.2.2 of the 2022 CBC and Table 20.3-1 of ASCE 7-16. The values presented on the following page are for the risk-targeted maximum considered earthquake ($MCE_R$).

Although there are liquefiable soils underlying the site, we expect the proposed structures will possesses fundamental periods of less than 0.5 seconds; therefore, use of Site Class F is not considered necessary and a site response analysis is not anticipated to be required in accordance with ASCE 7-16, Section 20.3.1.

## 2022 CBC SEISMIC DESIGN PARAMETERS

| Parameter | Value | 2022 CBC Reference |
|---|---|---|
| Site Class | D | Section 1613.2.2 |
| $MCE_R$ Ground Motion Spectral Response Acceleration – Class B (short), $S_S$ | 1.363g | Figure 1613.2.1(1) |
| $MCE_R$ Ground Motion Spectral Response Acceleration – Class B (1 sec), $S_1$ | 0.484g | Figure 1613.2.1(2) |
| Site Coefficient, $F_A$ | 1 | Table 1613.2.3(1) |
| Site Coefficient, $F_V$ | 1.816 | Table 1613.2.3(2) |
| Site Class Modified $MCE_R$ Spectral Response Acceleration (short), $S_{MS}$ | 1.363g | Section 1613.2.3 (Eqn 16-20) |
| Site Class Modified $MCE_R$ Spectral Response Acceleration – (1 sec), $S_{M1}$ | 0.879g* | Section 1613.2.3 (Eqn 16-21) |
| 5% Damped Design Spectral Response Acceleration (short), $S_{DS}$ | 0.909g | Section 1613.2.4 (Eqn 16-22) |
| 5% Damped Design Spectral Response Acceleration (1 sec), $S_{D1}$ | 0.586* | Section 1613.2.4 (Eqn 16-23) |

*Per Supplement 3 of ASCE7-16, a ground motion hazard analysis (GMHA) shall be performed for projects on Site Class "D" sites with 1-second spectral acceleration ($S_1$) greater than or equal to 0.2g, which is true for this site. However, Supplement 3 of ASCE 7-16 provides an exception stating that that the GMHA may be waived provided that the parameter $S_{M1}$ is increased by 50% for all applications of $S_{M1}$. The values for parameters $S_{M1}$ and $S_{D1}$ presented above have been increased in accordance with Supplement 3 of ASCE 7-16.

The table below presents the mapped maximum considered geometric mean ($MCE_G$) seismic design parameters for projects located in Seismic Design Categories of D through F in accordance with ASCE 7-16.

## ASCE 7-16 PEAK GROUND ACCELERATION

| Parameter | Value | ASCE 7-16 Reference |
|---|---|---|
| Mapped MCEG Peak Ground Acceleration, PGA | 0.575g | Figure 22-9 |
| Site Coefficient, FPGA | 1.1 | Table 11.8-1 |
| Site Class Modified MCEG Peak Ground Acceleration, PGAM | 0.633g | Section 11.8.3 (Eqn 11.8-1) |

Deaggregation of the MCE peak ground acceleration was performed using the USGS online Unified Hazard Tool, 2014 Conterminous U.S. Dynamic edition (v4.2.0). The result of the deaggregation analysis indicates that the mean earthquake contributing to the MCE peak ground acceleration is characterized as a 6.65 magnitude event occurring at a hypocentral distance of 13.63 kilometers from the site.

Deaggregation was also performed for the Design Earthquake (DE) peak ground acceleration, and the result of the analysis indicates that the modal earthquake contributing to the DE peak ground acceleration is characterized as a 6.12 magnitude occurring at a hypocentral distance of 10.68 kilometers from the site.

Conformance to the criteria in the above tables for seismic design does not constitute any kind of guarantee or assurance that significant structural damage or ground failure will not occur if a large earthquake occurs. The primary goal of seismic design is to protect life, not to avoid all damage, since such design may be economically prohibitive.

### 6.4 Liquefaction Potential

Liquefaction is a phenomenon in which loose, saturated, relatively cohesionless soil deposits lose shear strength during strong ground motions. Primary factors controlling liquefaction include intensity and duration of ground motion, gradation characteristics of the subsurface soils, in-situ stress conditions, and the depth to groundwater. Liquefaction is typified by a loss of shear strength in the liquefied layers due to rapid increases in pore water pressure generated by earthquake accelerations.

The current standard of practice, as outlined in the “Recommended Procedures for Implementation of DMG Special Publication 117, Guidelines for Analyzing and Mitigating Liquefaction in California” and “Special Publication 117A, Guidelines for Evaluating and Mitigating Seismic Hazards in California” requires liquefaction analysis to a depth of 50 feet below the lowest portion of the proposed structure. Liquefaction typically occurs in areas where the soils below the water table are composed of poorly consolidated, fine- to medium-grained, primarily sandy soil. In addition to the requisite soil conditions, the ground acceleration and duration of the earthquake must also be of a sufficient level to induce liquefaction.

The State of California Seismic Hazard Zone Map for the Anaheim Quadrangle (CDMG, 1998) indicates that the site is located within an area identified as a zone of required investigation for liquefaction. The historic high groundwater level in the vicinity of the site is reported to be approximately 30 to 40 feet beneath the ground surface (CDMG, 1997, revised 2001). Groundwater was encountered in the current field explorations at a depth of approximately 54 feet below the existing ground surface.

Liquefaction analyses of the CPT soundings were performed using the program CLiq (Version 3.5.2.17). This program utilizes the 2001 NCEER method of analysis. This semi-empirical method is based on correlations with the data collected from the CPT soundings.

Prior to analysis, the Standard Penetration Test (SPT) blow counts from borings E, F, and I were compared with the blow counts estimated from CPTs 1, 2, and 3 based on the proximity of these explorations. SPTs were performed in the borings at intervals of approximately 5 feet. In order to supplement the SPT blow count data, the California Modified Sampler blow count data were converted to equivalent SPT blow counts based on a correlation factor of 0.55 (Rogers, 2006). The field collected blow counts were corrected for hammer efficiency to N60 blow count values. The boring N60 values were compared with the N60 values generated by the program CPet-IT (Version 3.9.1.3). The comparisons are shown as Figures 5 through 7. It is our opinion that the boring and CPT N60 values show a reasonable correlation and that analysis of the liquefaction potential may be based on the CPT data.

The liquefaction analysis was performed for a Design Earthquake level by using a historic high groundwater table of 30 feet below the ground surface, a magnitude 6.12 earthquake, and a peak horizontal acceleration of 0.422g (⅔PGAM). The enclosed liquefaction analyses, included herein for CPTs 1 through 3, indicate that the alluvial soils below the historic high groundwater could be prone to up to 1.1 inches of liquefaction induced settlement during Design Earthquake ground motion. A summary of the anticipated liquefaction induced settlements is provided as Figure 8; calculations and output from CLiq are provided as Appendix C.

It is our understanding that the intent of the Building Code is to maintain “Life Safety” during Maximum Considered Earthquake level events. Therefore, additional analysis was performed to evaluate the potential for liquefaction during a MCE event. The structural engineer should evaluate the proposed structure for the anticipated MCE liquefaction induced settlements and verify that anticipated deformations would not cause the foundation system to lose the ability to support the gravity loads and/or cause collapse of the structure.

The liquefaction analysis was also performed for the Maximum Considered Earthquake level by using a historic high groundwater table of 30 feet below the ground surface, a magnitude 6.65 earthquake, and a peak horizontal acceleration of 0.633g (PGAM). The enclosed liquefaction analyses, included herein for CPTs 1 through 3, indicate that the alluvial soils below the historic high groundwater could be prone to up to 2.5 inches of liquefaction induced settlement during Maximum Considered Earthquake ground motion. A summary of the anticipated liquefaction induced settlements is provided as Figure 9; calculations and output from CLiq are provided as Appendix C.

## 6.5 Seismically-Induced Settlement

Dynamic compaction of dry and loose sands may occur during a major earthquake. Typically, settlements occur in thick beds of such soils. Analysis of dry seismic induced settlements were performed using the program CLiq (Version 3.0.3.2). This program utilizes the Robertson and Shao, 2010, method of analysis.

The results of the seismically induced dry settlement calculations for CPTs 1 through 3 indicate that the soil above the historic high groundwater level of 30 feet could be prone to less than ½ inch of settlement as a result of the Design Earthquake peak ground acceleration (⅔PGAM). A summary of the estimated dry seismic settlements during a Design Level Earthquake is provided as Figure 10.

The results of the seismically induced dry settlement calculations for CPTs 1 through 3 indicate that the soil above the historic high groundwater level of 30 feet could be prone up to ⅔ inch of settlement as a result of the Design Earthquake peak ground acceleration (⅔PGAM). A summary of the estimated dry seismic settlements during a Design Level Earthquake is provided as Figure 11.

Calculations and output from CLiq are provided as Appendix C.

## 6.6 Slope Stability

The site and adjacent sites are relatively flat to sloping gently to the southwest. Based on a review of the City of Orange General Plan (2010) and the Orange County Safety Element (2004), the site is not located within an area identified as having a potential for slope stability hazards. Also, the site is not within an area identified as having a potential for seismic slope instability (CDMG, 1998). There are no known landslides near the site, nor is the site in the path of any known or potential landslides (USGS, 20223a). Therefore, the potential for slope stability hazards to adversely affect the proposed development is considered low.

## 6.7 Earthquake-Induced Flooding

Earthquake-induced flooding is inundation caused by failure of dams or other water-retaining structures due to earthquakes. The Orange County Safety Element (2004) indicates that the site is located within the Prado Dam and Santiago Reservoir inundation area. However, these reservoirs, as well as others in California, are continually monitored by various governmental agencies (such as the State of California Division of Safety of Dams and the U.S. Army Corps of Engineers) to guard against the threat of dam failure. Current design, construction practices, and ongoing programs of review, modification, or total reconstruction of existing dams are intended to ensure that all dams are capable of withstanding the maximum considered earthquake (MCE) for the site. Therefore, the potential for inundation at the site as a result of an earthquake-induced dam failure is considered low.

## 6.8 Tsunamis, Seiches, and Flooding

The site is not located within a coastal area. Therefore, tsunamis are not considered a significant hazard at the site.

Seiches are large waves generated in enclosed bodies of water in response to ground shaking. No major water-retaining structures are located immediately up gradient from the project site. Therefore, flooding resulting from a seismically induced seiche is considered unlikely.

According to the City of Orange General Plan (2010) and the Orange County Safety Element (2004), the site is not within a 100-year or 500-year flood zone. No base flood elevation was indicted by FEMA (2021).

## 6.9 Oil Fields & Methane Potential

Based on a review of the California Geologic Energy Management Division (CalGEM) Well Finder Website, the site is not located within an oil field and oil or gas wells are not documented within ½-mile of the site (CalGEM, 2024). However, due to the voluntary nature of record reporting by the oil well drilling companies, wells may be improperly located or not shown on the location map and undocumented wells could be encountered during construction. Any wells encountered during construction will need to be properly abandoned in accordance with the current requirements of the CalGEM.

Since the site is not located within the boundaries of a known oil field, the potential for the presence of methane or other volatile gases at the site is considered low. However, should it be determined that a methane study is required for the proposed development it is recommended that a qualified methane consultant be retained to perform the study and provide mitigation measures as necessary.

## 6.10 Subsidence

Subsidence occurs when a large portion of land is displaced vertically, usually due to the withdrawal of groundwater, oil, or natural gas. Soils that are particularly subject to subsidence include those with high silt or clay content. The site is located within an area of known ground subsidence (USGS, 2024). Subsidence related to groundwater pumping commonly occurs in such small magnitudes and over such large areas that it is generally imperceptible at an individual locality. Accordingly, it affects only regionally extensive structures sensitive to slight elevation changes, such as canals and pipelines. The rate of elevation change is usually uniform over a large enough area that it does not result in differential settlements that would cause damage to individual buildings. Therefore, the potential for subsidence to adversely impact the proposed project is considered low.

# 7. CONCLUSIONS AND RECOMMENDATIONS

## 7.1 General

7.1.1 It is our opinion that neither soil nor geologic conditions were encountered during the investigation that would preclude the construction of the proposed project provided the recommendations presented herein are followed and implemented during design and construction.

7.1.2 Up to 3½ feet of existing artificial fill was encountered during the site investigation. The existing fill encountered is believed to be the result of past grading and construction activities at the site. Deeper fill may exist in other areas of the site that were not directly explored. Future demolition of the existing structures which occupy the site will likely disturb the upper few feet of soil below those existing improvements. It is our opinion that the existing fill, in its present condition, is not suitable for direct support of proposed foundations or slabs. If needed, the existing fill and site soils are suitable for re-use as engineered fill provided the recommendations in the *Grading* section of this report are followed (see Section 7.4).

7.1.3 The enclosed liquefaction analysis indicates that the site soils could be susceptible to approximately 1¼ inches of total settlement as a result of the Design Earthquake peak ground acceleration (⅔$PGA_M$), and up to 3 inches of total settlement as a result of the MCE peak ground acceleration ($PGA_M$). These values exceed the allowable limits of differential settlement for conventional shallow foundations set forth in Chapter 12 of ASCE 7-16. The grading and foundation design recommendations presented herein are intended to reduce the effects of settlement on proposed improvements.

7.1.4 Based on these considerations, the foundation system for the proposed structures must be able to provide sufficient support and minimize the effects of differential settlement resulting from a liquefaction event. One design option is to support proposed buildings on a reinforced mat foundation system. A mat foundation system is more capable of minimizing the effects of differential settlement and has sufficient rigidity to allow the structure to behave more uniformly. Recommendations for the design of a mat foundation system are provided in Section 7.7.

7.1.5 Alternatively, proposed structures may be supported on a conventional foundation system with interconnecting foundation ties. The foundation system should be underlain by a blanket of newly placed engineered fill. Recommendations for the design of a conventional foundation system are provided in Section 7.8.

7.1.6 As a minimum, it is recommended that existing earth materials in the building footprint areas be excavated and properly compacted to a depth of at least 5 feet below the existing ground surface. This depth is based on the existing grades at the time of our site exploration. Deeper excavations should be conducted as necessary to remove existing artificial fill or soft alluvial soil at the direction of the Geotechnical Engineer (a representative of Geocon). Proposed building foundations should be underlain by a minimum of 3 feet of newly placed engineered fill. It is recommended that the grading contractor verify the depth of all building foundations prior to commencement of site grading activities in order to correctly determine the required grading overexcavations for foundations. Where feasible, the excavation should extend laterally a minimum distance of 3 feet beyond the building footprint area, including building appurtenances, or for a distance equal to the depth of fill below the foundation, whichever is greater. The limits of existing fill and/or soft alluvial soil removal will be verified by the Geocon representative during site grading activities. Recommendations for earthwork are provided in the *Grading* section of this report (see Section 7.4).

7.1.7 It should be noted that implementation of the recommendations presented herein is not intended to completely prevent damage to the structure during the occurrence of strong ground shaking as a result of nearby earthquakes. It is intended that the structure be designed in such a way that the amount of damage incurred as a result of strong ground shaking be reduced. Re-leveling of the foundation system and repair of utilities could be necessary following a strong seismic event that triggers liquefaction.

7.1.8 Improvements which are not supported on soil modification, such as walkways, paving, and utilities, may still be subject to seismic and/or static settlement. The client should consider the flexibility of the products and pavements being installed. It is recommended that all utilities traversing through existing site soils utilize flexible connections in order to reduce the damage to underground installations caused by potential soil movements.

7.1.9 Based on our observations during site exploration, areas of loose or soft and overly moist soils may be encountered during grading operations. These conditions may change seasonally. If the soils are more than 3 percent above the optimum moisture content at the time of construction the soils will likely require some spreading and drying activities in order to achieve proper compaction.

7.1.10 If loose or soft and overly moist soils are exposed in excavation bottoms, these soils could be subject to excessive pumping. Operation of rubber tire equipment on the subgrade soils may cause excessive disturbance of the soils. Excavation activities to establish the finished subgrade elevation must be conducted carefully and methodically to avoid excessive disturbance to the subgrade. Stabilization of areas of the excavation bottom may be required in order to provide a firm working surface upon which heavy equipment can operate. Recommendations for bottom stabilization and earthwork are provided in the *Grading* section of this report (see Section 7.4).

7.1.11 It is anticipated that stable excavations for the recommended grading associated with the proposed structure can be achieved with sloping measures. However, if excavations in close proximity to an adjacent property line and/or structure are required, special excavation measures may be necessary in order to maintain lateral support of offsite improvements. Excavation recommendations are provided in the *Temporary Excavations* section of this report (Section 7.13).

7.1.12 Where new paving is to be placed, it is recommended that all existing fill and soft alluvium be excavated and properly compacted for paving support. The client should be aware that excavation and compaction of all existing fill and soft alluvium in the area of new paving is not required, however, paving constructed over existing uncertified fill or unsuitable soils may experience increased settlement and/or cracking, and may therefore have a shorter design life and increased maintenance costs. As a minimum, the upper twelve inches of soil should be scarified and properly compacted for paving support. Paving recommendations are provided in the *Preliminary Pavement Recommendations* section of this report (see Section 7.12).

7.1.13 Foundations for small outlying structures, such as block walls up to 6 feet high, planter walls or trash enclosures, which will not be tied-in to the proposed structure, may be supported on conventional foundations bearing on a minimum of 12 inches of newly placed engineered fill which extends laterally at least 12 inches beyond the foundation area. Where excavation and proper compaction cannot be performed, foundations may derive support directly in the undisturbed alluvial soils and should be deepened as necessary to maintain a minimum of 12-inch embedment into recommended bearing materials. The depth to competent alluvium should be field verified at each location. If the soils exposed in the excavation bottom are soft or loose, compaction of the soft soils will be required prior to placing steel or concrete. Compaction of the foundation excavation bottom is typically accomplished with a compaction wheel or mechanical whacker and must be observed and approved in writing by a Geocon representative.

7.1.14 Based on the results of percolation testing performed at the site, a stormwater infiltration system is considered feasible for this project. Recommendations for infiltration are provided in the Stormwater Infiltration section of this report (see Section 7.15).

7.1.15 Once the design and foundation loading configuration for the proposed structures proceeds to a more finalized plan, the recommendations within this report should be reviewed and revised, if necessary. Based on the final foundation loading configurations, the potential for settlement should be re-evaluated by this office.

7.1.16 Any changes in the design, location or elevation, as outlined in this report, should be reviewed by this office. Geocon should be contacted to determine the necessity for review and possible revision of this report.

7.1.17 The most recent ASTM standards apply to this project and must be utilized, even if older ASTM standards are indicated in this report.

## 7.2 Soil and Excavation Characteristics

7.2.1 The in-situ soils can be excavated with moderate effort using conventional excavation equipment. Caving should be anticipated in unshored excavations, especially where granular soils are present.

7.2.2 It is the responsibility of the contractor to ensure that all excavations and trenches are properly shored and maintained in accordance with applicable OSHA rules and regulations to maintain safety and maintain the stability of existing adjacent improvements.

7.2.3 All onsite excavations must be conducted in such a manner that potential surcharges from existing structures, construction equipment, and vehicle loads are resisted. The surcharge area may be defined by a 1:1 projection down and away from the bottom of an existing foundation or vehicle load. Penetrations below this 1:1 projection will require special excavation measures such as sloping or shoring. Excavation recommendations are provided in the *Temporary Excavations* section of this report (see Section 7.13).

7.2.4 The upper five feet of existing site soils encountered during the investigation are considered to have a "very low" expansive potential (EI = 0 to 2) and are classified as "non-expansive" in accordance with the 2022 California Building Code (CBC) Section 1803.5.3. The recommendations presented herein assume that foundations and slabs will derive support in these materials.

## 7.3 Minimum Resistivity, pH, and Water-Soluble Sulfate

7.3.1 Potential of Hydrogen (pH) and resistivity testing as well as chloride content testing were performed on representative samples of soil to generally evaluate the corrosion potential to surface utilities. The tests were performed in accordance with California Test Method Nos. 643 and 422 and indicate that the soils are considered "moderately corrosive" with respect to corrosion of buried ferrous metals on site. The results are presented in Appendix B (Figure B30) and should be considered for design of underground structures.

7.3.2 Laboratory tests were performed on representative samples of the on-site soil to measure the percentage of water-soluble sulfate content. Results from the laboratory water-soluble sulfate tests are presented in Appendix B (Figure B30) and indicate that the on-site soil possess a sulfate exposure class of "S0" to concrete structures as defined by 2022 CBC Section 1904 and ACI 318 Chapter 19.

7.3.3 Geocon West, Inc. does not practice in the field of corrosion engineering and mitigation. If corrosion sensitive improvements are planned, it is recommended that a corrosion engineer be retained to evaluate corrosion test results and incorporate the necessary precautions to avoid premature corrosion of buried metal pipes and concrete structures in direct contact with the soils.

## 7.4 Grading

7.4.1 A preconstruction conference should be held at the site prior to the beginning of excavation operations with the owner, contractor, civil engineer, geotechnical engineer, and building official in attendance. Special soil handling requirements can be discussed at that time.

7.4.2 Earthwork should be observed, and compacted fill tested by representatives of Geocon West, Inc. The existing fill and alluvial soil encountered during exploration are suitable for re-use as an engineered fill, provided any encountered oversize material (greater than 6 inches) and any encountered deleterious debris are removed.

7.4.3 Grading should commence with the removal of all existing vegetation and existing improvements from the area to be graded. Deleterious debris such as wood and root structures should be exported from the site and should not be mixed with the fill soils. Asphalt and concrete should not be mixed with the fill soils unless approved by the Geotechnical Engineer. All existing underground improvements planned for removal should be completely excavated and the resulting depressions properly backfilled in accordance with the procedures described herein. Once a clean excavation bottom has been established it must be observed and approved in writing by the Geotechnical Engineer (a representative of Geocon West, Inc.).7.4.3 As a minimum, it is recommended that the upper 5 feet of existing earth materials within proposed structures footprint areas be excavated and properly compacted for foundation and slab support. This depth is based on the existing grades at the time of our site exploration. Deeper excavations should be conducted as necessary to remove any encountered fill or soft soil as necessary at the direction of the Geotechnical Engineer (a representative of Geocon). Proposed building foundations should be underlain by a minimum of 3 feet of newly placed engineered fill. It is recommended that the grading contractor verify the depth of all building foundations prior to commencement of site grading activities in order to correctly determine the required grading overexcavations for foundations. The limits of existing fill and/or soft soil removal will be verified by the Geocon representative during site grading activities.

7.4.4 The excavation should extend laterally a minimum distance of 3 feet beyond the building footprint area, including building appurtenances, or a distance equal to the depth of fill below the foundation, whichever is greater. Where the recommended lateral over-excavation cannot be performed, such as adjacent to property lines and/or an existing structure, the lateral component of the foundation design can rely solely on friction between the bottom of the foundation and the underlying subgrade soils. The foundation should not utilize passive pressure unless foundations are bounded by and in direct contact with newly placed engineered fill.

7.4.5 All fill and backfill soils should be placed in horizontal loose layers approximately 6 to 8 inches thick, moisture conditioned to near optimum moisture content, and properly compacted to a minimum 90 percent of the maximum dry density in accordance with ASTM D 1557 (latest edition).

7.4.6 All excavations must be observed and approved in writing by the Geotechnical Engineer (a representative of Geocon).

7.4.7 Based on our observations during site exploration, areas of loose or soft and overly moist soils may be encountered during grading operations. These conditions may change seasonally. If the soils are more than 3 percent above the optimum moisture content at the time of construction the soils will likely require some spreading and drying activities in order to achieve proper compaction.

7.4.8 Prior to placing fill, a stable excavation bottom must be established. In areas where the subgrade is saturated or soft, proper compaction will likely not be possible or achieved in a timely manner without introducing stabilization measures. If subgrade stabilization is required at the excavation bottom, rubber tire equipment should not be allowed in the excavation bottom until it is stabilized or extensive soil disturbance could result. It is suggested that excavation and grading be performed during the summer season to promote moisture control of the soils. In addition, the use of track equipment should be used to minimize disturbance to the soils at the excavation bottom.

7.4.9 Bottom stabilization, if necessary, may be achieved placing a thin lift of 3- to 6-inch-diameter crushed angular rock into the soft excavation bottom. The use of crushed concrete will also be acceptable. The crushed rock should be spread thinly across the excavation bottom and pressed into the soils by track rolling or wheel rolling with heavy equipment. It is very important that voids between the rock fragments are not created so the rock must be thoroughly pressed or blended into the soils. All subgrade soils must be properly compacted and proof-rolled in the presence of the Geotechnical Engineer (a representative of Geocon West, Inc.).

7.4.10 An additional method of subgrade stabilization would be to place a minimum 12 inches thick layer of aggregate base over Tensar InterAx NX850 geogrid or equivalent extruded (nonwoven) geotextile. The Tensar geogrids should be installed taught and should overlap in accordance with the manufacturer's recommendations. Prior to placing the geogrid, excessively soft or wet materials should be removed and the resulting excavation bottom should be free of loose material. Non-vibratory compaction methods should be used for compaction of the base material. The aggregate base should be compacted to a dry density of at least 95 percent of the laboratory maximum density near the optimum moisture. If pumping of the subgrade continues, a thicker layer of aggregate base may be placed. It is very important that subgrade stabilization be performed uniformly across the entire excavation bottom.

7.4.11 It is anticipated that stable excavations for the recommended grading can be achieved with sloping measures. However, if excavations in close proximity to an adjacent property line and/or structure are required, special excavation measures may be necessary in order to maintain lateral support of the existing offsite improvements. Excavation recommendations are provided in the *Temporary Excavations* section of this report (Section 7.13).

7.4.12. Where new paving is to be placed, it is recommended that all existing fill and soft alluvium be excavated and properly compacted for paving support. As a minimum, the upper 12 inches of soil should be scarified, moisture conditioned to near optimum moisture content, and compacted to at least 95 percent relative compaction, as determined by ASTM Test Method D 1557 (latest edition). Paving recommendations are provided in the *Preliminary Pavement Recommendations* section of this report (see Section 7.12).

7.4.13 Although not anticipated for this project, all imported fill shall be observed, tested, and approved by Geocon West, Inc. prior to bringing soil to the site. Import fill should consist of the characteristics presented in the table below.

**SUMMARY OF IMPORT FILL RECOMMENDATIONS**

| Soil Characteristic | Values |
|---|---|
| Expansion Potential | "Very Low" (Expansion Index of 20 or less) |
| Particle Size | Maximum Dimension Less Than 6 Inches |
| | Free of Debris |
| Corrosivity | Less Detrimental Than Existing Onsite Soils |

7.4.14 Foundations for small outlying structures, such as block walls up to 6 feet high, planter walls or trash enclosures, which will not be tied to the proposed building, may be supported on conventional foundations deriving support on a minimum of 12 inches of newly placed engineered fill which extends laterally at least 12 inches beyond the foundation area. Where excavation and proper compaction cannot be performed, foundations may derive support directly in the undisturbed alluvial soils and should be deepened as necessary to maintain a minimum 12-inch embedment into the recommended bearing materials. The depth to competent alluvium should be field verified at each location. If the soils exposed in the excavation bottom are soft or loose, compaction of the soils will be required prior to placing steel or concrete. Compaction of the foundation excavation bottom is typically accomplished with a compaction wheel or mechanical whacker and must be observed and approved by a Geocon representative.

7.4.15 It is recommended that flexible utility connections be utilized for all rigid utilities to reduce or prevent damage to utilities from minor differential movements. Utility trenches should be properly backfilled in accordance with the following requirements. The pipe should be bedded with clean sands (Sand Equivalent greater than 30) to a depth of at least 1 foot over the pipe, and the bedding material must be inspected and approved in writing by the Geotechnical Engineer (a representative of Geocon). The use of gravel is not acceptable unless used in conjunction with filter fabric to prevent the gravel from having direct contact with soil. The remainder of the trench backfill may be derived from onsite soil or approved import soil, compacted as necessary, until the required compaction is obtained. The use of minimum 2-sack slurry as backfill is also acceptable. Prior to placing any bedding materials or pipes, the excavation bottom must be observed and approved in writing by the Geotechnical Engineer (a representative of Geocon).

7.4.16 All trench and foundation excavation bottoms must be observed and approved in writing by the Geotechnical Engineer (a representative of Geocon), prior to placing bedding materials, fill, steel, gravel, or concrete.

## 7.5 Shrinkage

7.5.1 Shrinkage results when a volume of material removed at one density is compacted to a higher density. A shrinkage factor of between 5 and 15 percent should be anticipated when excavating and compacting the upper site soils to an average relative compaction of 90 percent.

7.5.2 If import soils will be utilized in the building pad, the soils must be placed uniformly and at equal thickness at the direction of the Geotechnical Engineer (a representative of Geocon West, Inc.).

## 7.6 Foundation Design – General

7.6.1 Proposed foundations that are situated immediately adjacent to the existing foundations should be deepened as necessary to match the depth of the existing foundation to prevent a surcharge on the existing foundation.

7.6.2 Where proposed foundations will be deeper than the existing foundation, the proposed foundation must be designed to resist the surcharge imposed by the existing foundation. The surcharge area may be defined by a 1:1 projection up and away from the bottom of an existing foundation.

7.6.3 Foundation excavations should be observed and approved in writing by the Geotechnical Engineer (a representative of Geocon West, Inc.), prior to the placement of reinforcing steel and concrete to verify that the exposed soil conditions are consistent with those anticipated. If unanticipated soil conditions are encountered, foundation modifications may be required.

7.6.4 This office should be provided a copy of the final construction plans so that the recommendations presented herein could be properly reviewed and revised if necessary.

## 7.7 Mat Foundation Design

7.7.1 A reinforced concrete mat foundation deriving support in newly placed engineered fill may also be utilized for support the proposed structures. Proposed foundations should be underlain by a minimum of 3 feet of newly placed engineered fill. Foundation excavations should be observed and approved in writing by the Geotechnical Engineer (a representative of Geocon West, Inc.), prior to the placement of reinforcing steel and concrete.

7.7.2 The recommended maximum allowable bearing value for the design of a reinforced concrete mat foundation is 4,000 pounds per square foot (psf). The allowable bearing pressure may be increased by up to one-third for transient loads due to wind or seismic forces.

7.7.3 It is recommended that a modulus of subgrade reaction of 150 pounds per cubic inch (pci) be utilized for the design of the mat foundation bearing in newly placed engineered fill. This value is a unit value for use with a 1-foot square footing. The modulus should be reduced in accordance with the following equation when used with larger foundations:

$$K_R = K\left[\frac{B+1}{2B}\right]^2$$

where: $K_R$ = reduced subgrade modulus
K = unit subgrade modulus
B = foundation width (in feet)

7.7.4 The thickness of and reinforcement for the mat foundation should be designed by the project structural engineer.

7.7.5 The maximum expected static settlement for a structure supported on a mat foundation system deriving support in the recommended bearing materials and designed with a maximum bearing pressure of 4,000 psf is estimated to be less than 1 inch and occur below the heaviest loaded structural element. Settlement of the foundation system is expected to occur on initial application of loading. Differential settlement is not expected to exceed ½ inch between the center and corner of the mat foundation.

7.7.6 Based on seismic considerations, proposed structures supported on a mat foundation system should be designed for a combined static and seismically-induced differential settlement of than 1¼ inches.

7.7.7 Settlement resulting from mat foundation loading depends on the pressure distribution across the mat. Typically, some areas of the mat foundation induce larger stresses in the soil than other areas based on the applied loading. Once the design and foundation loading configurations for the proposed structure proceeds to a more finalized plan, the estimated settlements presented in this report should be reviewed and revised, if necessary. If the final foundation loading configurations are greater than the assumed loading conditions, the potential for settlement should be reevaluated by this office.

7.7.8 For seismic design purposes, a coefficient of friction of 0.35 may be utilized between concrete slab and subgrade soils without a moisture barrier, and 0.15 for slabs underlain by a moisture barrier.

## 7.8 Conventional Foundation Design

7.8.1 Subsequent to the recommended grading, proposed structures may be supported on a conventional spread foundation system deriving support in newly placed engineered fill. Proposed building foundations should be underlain by a minimum of 3 feet of newly placed engineered fill. The use of a conventional foundation system requires the use of interconnecting foundation ties.

7.8.2 Conventional shallow spread foundations should consist of continuous strip footings and/or isolated spread footings with interconnecting foundation ties and should be designed using the parameters in the table on the following page.

**SUMMARY OF FOUNDATION RECOMMENDATIONS**

| Parameter | Value |
|---|---|
| Minimum Continuous Foundation Width | 12 Inches |
| Minimum Isolated Foundation Width | 24 Inches |
| Minimum Foundation Depth | 18 Inches Below Lowest Adjacent Grade |
| Minimum Steel Reinforcement | 4 No. 4 Bars, 2 Top and 2 Bottom |
| Allowable Bearing Capacity – Continuous Foundation | 2,500 psf |
| Allowable Bearing Capacity – Isolated Foundation | 3,000 psf |
| Bearing Capacity Increase | 300 psf per Foot of Width |
| | 600 psf per Foot of Depth |
| Maximum Allowable Bearing Capacity | 4,000 psf |
| Estimated Total Settlement | ¾ Inch |
| Estimated Differential Settlement | ½ Inch over 20 Feet |

7.8.3 The above foundation dimensions and minimum reinforcement recommendations are based on soil conditions and building code requirements only, and are not intended to be used in lieu of those required for structural purposes.

7.8.4 The allowable bearing pressures may be increased by one-third for transient loads due to wind or seismic forces.

7.8.5 The analyses presented herein indicate the site could be susceptible to seismically-induced settlement. These settlements are in addition to the static settlements indicated above and must be considered in the structural design. Based on seismic considerations, the proposed structure should be designed for a combined static and seismically-induced differential settlement indicated in the table below.

**SUMMARY OF ANTICIPATED DIFFERENTIAL SETTLEMENT**

| Parameter | Value |
|---|---|
| Estimated Differential Static Settlement | ½ Inch over 20 Feet |
| Estimated Differential Seismic Settlement | ⅔ Inch over 20 Feet |
| Recommended Combined Differential Static + Seismic Settlement | 1¼ over 20 feet |

7.8.6 Once the design and foundation loading configurations for the proposed structures proceeds to a more finalized plan, the estimated settlements presented in this report should be reviewed and revised, if necessary. If the final foundation loading configurations are greater than the assumed loading conditions, the potential for settlement should be reevaluated by this office.

7.8.7 No special subgrade presaturation is required prior to placement of concrete. However, the moisture in the foundation subgrade should be sprinkled as necessary to maintain a moist condition at the time of concrete placement.

7.8.8 If depth increases are utilized for the exterior wall footings, this office should be provided a copy of the final construction plans so that the excavation recommendations presented herein could be properly reviewed and revised if necessary. Additional grading should be conducted as needed in order to maintain the required 3-foot-thick blanket of engineered fill below foundations.

## 7.9 Miscellaneous Foundations

7.9.1 Foundations for small outlying structures, such as block walls up to 6 feet in height, planter walls or trash enclosures, which will not be tied to the proposed structure, may be supported on conventional foundations deriving support on a minimum of 12 inches of newly placed engineered fill which extends laterally at least 12 inches beyond the foundation area. Where excavation and compaction cannot be performed, foundations may derive support directly in the competent undisturbed alluvial soils and should be deepened as necessary to maintain a minimum 12-inch embedment into the recommended bearing materials. The depth to competent alluvium should be field verified at each location.

7.9.2 If the soils exposed in the excavation bottom are soft, compaction of the soft soils will be required prior to placing steel or concrete. Compaction of the foundation excavation bottom is typically accomplished with a compaction wheel or mechanical whacker and must be observed and approved by a Geocon representative. Miscellaneous foundations may be designed for a bearing value of 1,500 psf, and should be a minimum of 12 inches in width, 18 inches in depth below the lowest adjacent grade and 12 inches into the recommended bearing material. The allowable bearing pressure may be increased by up to one-third for transient loads due to wind or seismic forces.

7.9.3 Foundation excavations should be observed and approved in writing by the Geotechnical Engineer (a representative of Geocon West, Inc.), prior to the placement of reinforcing steel and concrete to verify that the excavations and exposed soil conditions are consistent with those anticipated.

## 7.10 Lateral Design

7.10.1 Resistance to lateral loading may be provided by friction acting at the base of foundations, slabs and by passive earth pressure. An allowable coefficient of friction of 0.35 may be used with the dead load forces in the newly placed engineered fill or undisturbed older alluvial soils.

7.10.2 Passive earth pressure for the sides of foundations and slabs poured against newly placed engineered fill or undisturbed older alluvial soils may be computed as an equivalent fluid having a density of 250 pounds per cubic foot (pcf) with a maximum earth pressure of 2,500 psf. When combining passive and friction for lateral resistance, the passive component should be reduced by one-third. A one-third increase in the passive value may be used for wind or seismic loads.

7.10.3 Where the recommended lateral over-excavation cannot be performed, such as adjacent to property lines and/or an existing structure, the lateral component of the foundation design can rely solely on friction between the bottom of the foundation and the underlying subgrade soils. The foundation should not utilize passive pressure unless foundations are bounded by and in direct contact with newly placed engineered fill.

## 7.11 Concrete Slabs-on-Grade

7.11.1 Subsequent to the recommended grading, concrete slabs-on-grade for structures, not subject to vehicle loading, should be a minimum of 4 inches thick and minimum slab reinforcement should consist of No. 3 steel reinforcing bars placed 18 inches on center in both horizontal directions. Steel reinforcing should be positioned vertically near the slab midpoint.

7.11.2 Slabs-on-grade at the ground surface that may receive moisture-sensitive floor coverings or may be used to store moisture-sensitive materials should be underlain by a vapor retarder placed directly beneath the slab. The vapor retarder and acceptable permeance should be specified by the project architect or developer based on the type of floor covering that will be installed. The vapor retarder selection and design should be consistent with the guidelines presented in Section 9.3 of the American Concrete Institute's (ACI) Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials (ACI 302.2R-06) as well as ASTM E1745 and should be installed in general conformance with ASTM E 1643 (latest edition) and the manufacturer's recommendations. A minimum thickness of 15 mils extruded polyolefin plastic is recommended; vapor retarders which contain recycled content or woven materials are not recommended. The vapor retarder should have a permeance of less than 0.01 perms demonstrated by testing before and after mandatory conditioning is recommended. The vapor retarder should be installed in direct contact with the concrete slab with proper perimeter seal. If the California Green Building Code requirements apply to this project, the vapor retarder should be underlain by 4 inches of clean aggregate. It is important that the vapor retarder be puncture resistant since it will be in direct contact with angular gravel. As an alternative to the clean aggregate suggested in the Green Building Code, it is our opinion that the concrete slab-on-grade may be underlain by a vapor retarder over 4-inches of clean sand (sand equivalent greater than 30), since the sand will serve a capillary break and will minimize the potential for punctures and damage to the vapor barrier.

7.11.3 For seismic design purposes, a coefficient of friction of 0.35 may be utilized between concrete slabs and subgrade soils without a moisture barrier, and 0.15 for slabs underlain by a moisture barrier.

7.11.4 Exterior slabs for walkways and flatwork, not subject to traffic loads, should be at least 4 inches thick and reinforced with No. 3 steel reinforcing bars placed 18 inches on center in both horizontal directions, positioned near the slab midpoint. Prior to construction of slabs, the upper 12 inches of subgrade should be moistened to near optimum moisture content and properly compacted to at least 95 percent relative compaction, as determined by ASTM Test Method D 1557 (latest edition). Crack control joints should be spaced at intervals not greater than 10 feet and should be constructed using saw-cuts or other methods as soon as practical following concrete placement. Crack control joints should extend a minimum depth of one-fourth the slab thickness. Construction joints should be designed by the project structural engineer.

7.11.5 The moisture content of the slab subgrade should be maintained and sprinkled as necessary to maintain a moist condition as would be expected in any concrete placement.

7.11.6 The recommendations of this report are intended to reduce the potential for cracking of slabs due to settlement. However, even with the incorporation of the recommendations presented herein, foundations, stucco walls, and slabs-on-grade may exhibit some cracking due to minor soil movement and/or concrete shrinkage. The occurrence of concrete shrinkage cracks is independent of the supporting soil characteristics. Their occurrence may be reduced and/or controlled by limiting the slump of the concrete, proper concrete placement and curing, and by the placement of crack control joints at periodic intervals, in particular, where re-entrant slab corners occur.

## 7.12 Preliminary Pavement Recommendations

7.12.1 Where new paving is to be placed, it is recommended that all existing fill and soft alluvium be excavated and properly compacted for paving support. The client should be aware that excavation and compaction of all existing artificial fill and soft alluvium in the area of new paving is not required; however, paving constructed over existing uncertified fill or unsuitable alluvium may experience increased settlement and/or cracking, and may therefore have a shorter design life and increased maintenance costs. As a minimum, the upper 12 inches of paving subgrade should be scarified, moisture conditioned to near optimum moisture content, and properly compacted to at least 95 percent relative compaction, as determined by ASTM Test Method D 1557 (latest edition).

7.12.2 The following pavement sections are based on an assumed R-Value of 20. Once site grading activities are complete an R-Value should be obtained by laboratory testing to confirm the properties of the soils serving as paving subgrade, prior to placing pavement.

7.12.3 The Traffic Indices listed below are estimates. Geocon does not practice in the field of traffic engineering. The actual Traffic Index for each area should be determined by the project civil engineer. If pavement sections for Traffic Indices other than those listed below are required, Geocon should be contacted to provide additional recommendations. Pavement thicknesses were determined following procedures outlined in the *California Highway Design Manual* (Caltrans). It is anticipated that the majority of traffic will consist of automobile and large truck traffic.

**PRELIMINARY PAVEMENT DESIGN SECTIONS**

| Location | Estimated Traffic Index (TI) | Asphalt Concrete (inches) | Class 2 Aggregate Base (inches) |
|---|---|---|---|
| Automobile Parking and Driveways | 4.0 | 3.0 | 6.0 |
| Trash Truck & Fire Lanes | 7.0 | 4.0 | 12.0 |

7.12.4 Asphalt concrete should conform to Section 203-6 of the "*Standard Specifications for Public Works Construction"* (Green Book). Class 2 aggregate base materials should conform to Section 26-1.02A of the "*Standard Specifications of the State of California, Department of Transportation"* (Caltrans). The use of Crushed Miscellaneous Base (CMB) in lieu of Class 2 aggregate base is acceptable. Crushed Miscellaneous Base should conform to Section 200-2.4 of the "*Standard Specifications for Public Works Construction"* (Green Book).

7.12.5 Unless specifically designed and evaluated by the project structural engineer, where exterior concrete paving will be utilized for support of vehicles, it is recommended that the concrete be a minimum of 6 inches of concrete reinforced with No. 3 steel reinforcing bars placed 18 inches on center in both horizontal directions. Concrete paving supporting vehicular traffic should be underlain by a minimum of 4 inches of aggregate base and a properly compacted subgrade. The subgrade and base material should be compacted to 95 percent relative compaction as determined by ASTM Test Method D 1557 (latest edition).

7.12.6 The performance of pavements is highly dependent upon providing positive surface drainage away from the edge of pavements. Ponding of water on or adjacent to the pavement will likely result in saturation of the subgrade materials and subsequent cracking, subsidence and pavement distress. If planters are planned adjacent to paving, it is recommended that the perimeter curb be extended at least 12 inches below the bottom of the aggregate base to minimize the introduction of water beneath the paving.

## 7.13 Temporary Excavations

7.13.1 Excavations on the order of 5 feet in height may be required during grading operations. The excavations are expected to expose artificial fill and alluvial soils, which may be subject to caving where granular soils are exposed. Temporary vertical excavations up to 5 feet in height may be attempted where loose soils or caving sands are not present, and where excavations are not surcharged by adjacent traffic or structures.

7.13.2 Vertical excavations greater than 5 feet or where surcharged by existing structures will require sloping or shoring measures in order to provide a stable excavation. Where sufficient space is available, temporary unsurcharged embankments could be sloped back at a uniform 1:1 slope gradient or flatter up to a maximum of 10 feet in height. A uniform slope does not have a vertical portion. Where space is limited, shoring measures will be required.

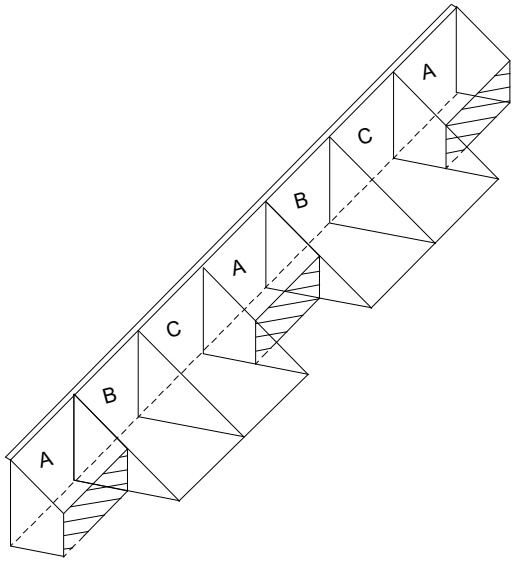
7.13.3 If excavations in close proximity to an adjacent property line and/or structure are required, special excavation measures such as slot-cutting or shoring may be necessary in order to maintain lateral support of offsite improvements. Recommendations for slot-cutting are provided in the following section.

7.13.4 Where temporary construction slopes are utilized, the top of the slope should be barricaded to prevent vehicles and storage loads at the top of the slope within a horizontal distance equal to the height of the slope. If the temporary construction slopes are to be maintained during the rainy season, berms are suggested along the tops of the slopes where necessary to prevent runoff water from entering the excavation and eroding the slope faces. The soils exposed in the cut slopes should be inspected during excavation by our personnel and the contractor's competent person so that modifications of the slopes can be made if variations in the soil conditions occur. All excavations should be stabilized within 30 days of initial excavation.

## 7.14 Slot Cutting

7.14.1 The slot-cutting method employs the earth as a buttress and allows the earth excavation to proceed in phases. Where slot-cutting is used for foundation construction, the proposed construction techniques should be discussed with the structural engineer so that appropriate modifications can be made to the foundation design; such as additional reinforcing or details for doweling.

7.14.2 It is recommended that the initial temporary excavation along the property line be sloped back at a uniform 1:1 (H:V) slope gradient or flatter for excavation of the existing soils to the necessary depth. The temporary excavation should not extend below the surcharge area of any adjacent foundations. The surcharge area may be defined by a 1:1 projection down and away from the bottom of an existing foundation. The temporary slope may then be excavated using the slot-cutting (see illustration below).




7.14.3 Alternate "A" slots of 8 feet in width may be worked. The remaining earth buttresses ("B" and "C" slots) should also be 8 feet in width. The wall, foundation, or backfill should be completed in the "A" slots to a point where support of the offsite property and/or any existing structures is restored before the "B" slots are excavated. After completing the wall, foundation, or backfill in the "B" slots, finally the "C" slots may be excavated. Slot-cutting is not recommended for vertical excavations greater than 5 feet in height. A slot-cut calculation is provided as Figure 12 and assumes no surcharge loads will be acting on the excavation. If surcharge loads will be present, the slot-cut calculation should be revised as necessary.

## 7.15 Stormwater Infiltration

7.15.1 During the site exploration, borings L and M were used to perform percolation testing. The borings were advanced to the depth listed in the table below. Slotted casing was placed in the borings, and the annular space between the casing and excavation was filled with filter pack. The borings were then filled with water to pre-saturate the soils. The casings were refilled with water and percolation test readings were performed after repeated flooding of the cased excavation. Based on the test results, the average infiltration rate (adjusted percolation rate), for the earth materials encountered, is provided in the following table. The field-measured percolation rate has been adjusted to infiltration rates in accordance with the County of Orange Technical Guidance Document for the Preparation of Conceptual/Preliminary and/or Project Water Quality Management Plans (December 2013). Additional correction factors may be required and should be applied by the engineer in responsible charge of the design of the stormwater infiltration system and based on applicable guidelines. Percolation test results are provided on Figures 13 and 14.

| Boring | Soil Type | Infiltration Depth (ft) | Average Infiltration Rate (in / hour) |
|---|---|---|---|
| L | Silty Sand (SM) | 5-10 | 1.40 |
| M | Silty Sand (SM) | 3.5-5 | 2.73 |

7.15.2 The results of the percolation testing indicate that the soils are conductive to infiltration. It is our opinion that the soil zones encountered at the depths and locations as listed in the table above are suitable for infiltration of stormwater.

7.15.3 It is our opinion that the introduction of stormwater at the depth and location indicated above will not induce excessive hydro-consolidation, will not create a perched groundwater condition, will not affect soil structure interaction of existing or proposed foundations due to expansive soils, will not saturate soils supported by existing or proposed retaining walls, and will not increase the potential for liquefaction. Resulting settlements are anticipated to be less than ¼ inch, if any.

7.15.4 If infiltration is planned for any location or depth other than where the above testing was performed, additional testing may be required.

7.15.5 The infiltration system should be located such that the closest distance between an adjacent foundation is at least 15 feet in all directions from the zone of saturation. The zone of saturation may be assumed to project downward from the discharge of the infiltration facility at a gradient of 1:1. Additional property line or foundation setbacks may be required by the governing jurisdiction and should be incorporated into the stormwater infiltration system design as necessary.

7.15.6 Subsequent to the placement of the infiltration system, it is acceptable to backfill the resulting void space between the excavation sidewalls and the infiltration system with minimum two-sack slurry provided the slurry is not placed in the infiltration zone. It is recommended that pea gravel be utilized adjacent to the infiltration zone so communication of water to the soil is not hindered.

7.15.7 Due to the preliminary nature of the project at this time, the type of stormwater infiltration system and location of the stormwater infiltration systems has not yet been determined. The design drawings should be reviewed and approved by the Geotechnical Engineer. The installation of the stormwater infiltration system should be observed and approved by the Geotechnical Engineer (a representative of Geocon).

## 7.16 Surface Drainage

7.16.1 Proper surface drainage is critical to the future performance of the project. Uncontrolled infiltration of irrigation excess and storm runoff into the soils can adversely affect the performance of the planned improvements. Saturation of a soil can cause it to lose internal shear strength and increase its compressibility, resulting in a change in the original designed engineering properties. Proper drainage should be maintained at all times.

7.16.2 All site drainage should be collected and controlled in non-erosive drainage devices. Drainage should not be allowed to pond anywhere on the site, and especially not against any foundation or retaining wall. The site should be graded and maintained such that surface drainage is directed away from structures in accordance with 2022 CBC 1804.4 or other applicable standards. In addition, drainage should not be allowed to flow uncontrolled over any descending slope. Discharge from downspouts, roof drains and scuppers are not recommended onto unprotected soils within 5 feet of the building perimeter. Planters which are located adjacent to foundations should be sealed to prevent moisture intrusion into the soils providing foundation support. Landscape irrigation is not recommended within 5 feet of the building perimeter footings except when enclosed in protected planters.

7.16.3 Positive site drainage should be provided away from structures, pavement, and the tops of slopes to swales or other controlled drainage structures.

7.16.4 Landscaping planters immediately adjacent to paved areas are not recommended due to the potential for surface or irrigation water to infiltrate the pavement's subgrade and base course. Either a subdrain, which collects excess irrigation water and transmits it to drainage structures, or impervious above-grade planter boxes should be used. In addition, where landscaping is planned adjacent to the pavement, it is recommended that consideration be given to providing a cutoff wall along the edge of the pavement that extends at least 12 inches below the base material.

## 7.17 Plan Review

7.17.1 Grading, foundation, and shoring plans should be reviewed by the Geotechnical Engineer (a representative of Geocon West, Inc.), prior to finalization to verify that the plans have been prepared in substantial conformance with the recommendations of this report and to provide additional analyses or recommendations.

# LIMITATIONS AND UNIFORMITY OF CONDITIONS

1. The firm that performed the geotechnical investigation for the project should be retained to provide testing and observation services during construction to provide continuity of geotechnical interpretation and to check that the recommendations presented for geotechnical aspects of site development are incorporated during site grading, construction of improvements, and excavation of foundations. If another geotechnical firm is selected to perform the testing and observation services during construction operations, that firm should prepare a letter indicating their intent to assume the responsibilities of project geotechnical engineer of record. A copy of the letter should be provided to the regulatory agency for their records. In addition, that firm should provide revised recommendations concerning the geotechnical aspects of the proposed development, or a written acknowledgement of their concurrence with the recommendations presented in our report. They should also perform additional analyses deemed necessary to assume the role of Geotechnical Engineer of Record.

2. The recommendations of this report pertain only to the site investigated and are based upon the assumption that the soil conditions do not deviate from those disclosed in the investigation. If any variations or undesirable conditions are encountered during construction, or if the proposed construction will differ from that anticipated herein, Geocon Incorporated should be notified so that supplemental recommendations can be given. The evaluation or identification of the potential presence of hazardous or corrosive materials was not part of the scope of services provided by Geocon Incorporated.

3. This report is issued with the understanding that it is the responsibility of the owner or his representative to ensure that the information and recommendations contained herein are brought to the attention of the architect and engineer for the project and incorporated into the plans, and the necessary steps are taken to see that the contractor and subcontractors carry out such recommendations in the field.

4. The findings of this report are valid as of the present date. However, changes in the conditions of a property can occur with the passage of time, whether they be due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation or the broadening of knowledge. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control. Therefore, this report is subject to review and should not be relied upon after a period of three years.

# LIST OF REFERENCES

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2. *California Division of Mines and Geology, 1998, State of California, Seismic Hazard Zones, Anaheim Quadrangle, Revised Official Map Released: April 15, 1998.*

3. *California Division of Mines and Geology, 1997 (revised 2001), Seismic Hazard Evaluation Report for the Anaheim and Newport Beach 7.5-Minute Quadrangles, Orange County, California, Seismic Hazard Zone Report 003.*

4. *California Geologic Energy Management Division, 2024, CalGEM Resources Well Finder, http://maps.conservation.ca.gov.doggr/index.html#close.*

5. *California Geological Survey, 2024a, CGS Information Warehouse, Regulatory Map Portal, http://maps.conservation.ca.gov/cgs/informationwarehouse/index.html?map=regulatorymaps.*

6. *California Geological Survey, 2024b, Earthquake Zones of Required Investigation, https://maps.conservation.ca.gov/cgs/EQZApp/app/.*

7. *California Geological Survey, 2018, Earthquake Fault Zones, A Guide for Government Agencies, Property Owners/Developers, and Geoscience Practitioners for Assessing Fault Rupture Hazards in California, Special Publication 42, Revised 2018.*

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10. *City of Anaheim, General Plan, (2010) Public Safety Element.*

11. *FEMA, 2024, Online Flood Hazard Maps, http://www.esri.com/hazards/index.html.*

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13. *Jennings, C. W. and Bryant, W. A., 2010, Fault Activity Map of California, California Geological Survey Geologic Data Map No. 6.*

14. *Toppozada, T., Branum, D., Petersen, M, Hallstrom, C., and Reichle, M., 2000, Epicenters and Areas Damaged by M> 5 California Earthquakes, 1800 – 1999, California Geological Survey, Map Sheet 49.*

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16. U.S. Geological Survey, 2024, Areas of Land Subsidence in California Website, https://ca.water.usgs.gov/land_subsidence/california-subsidence-areas.html

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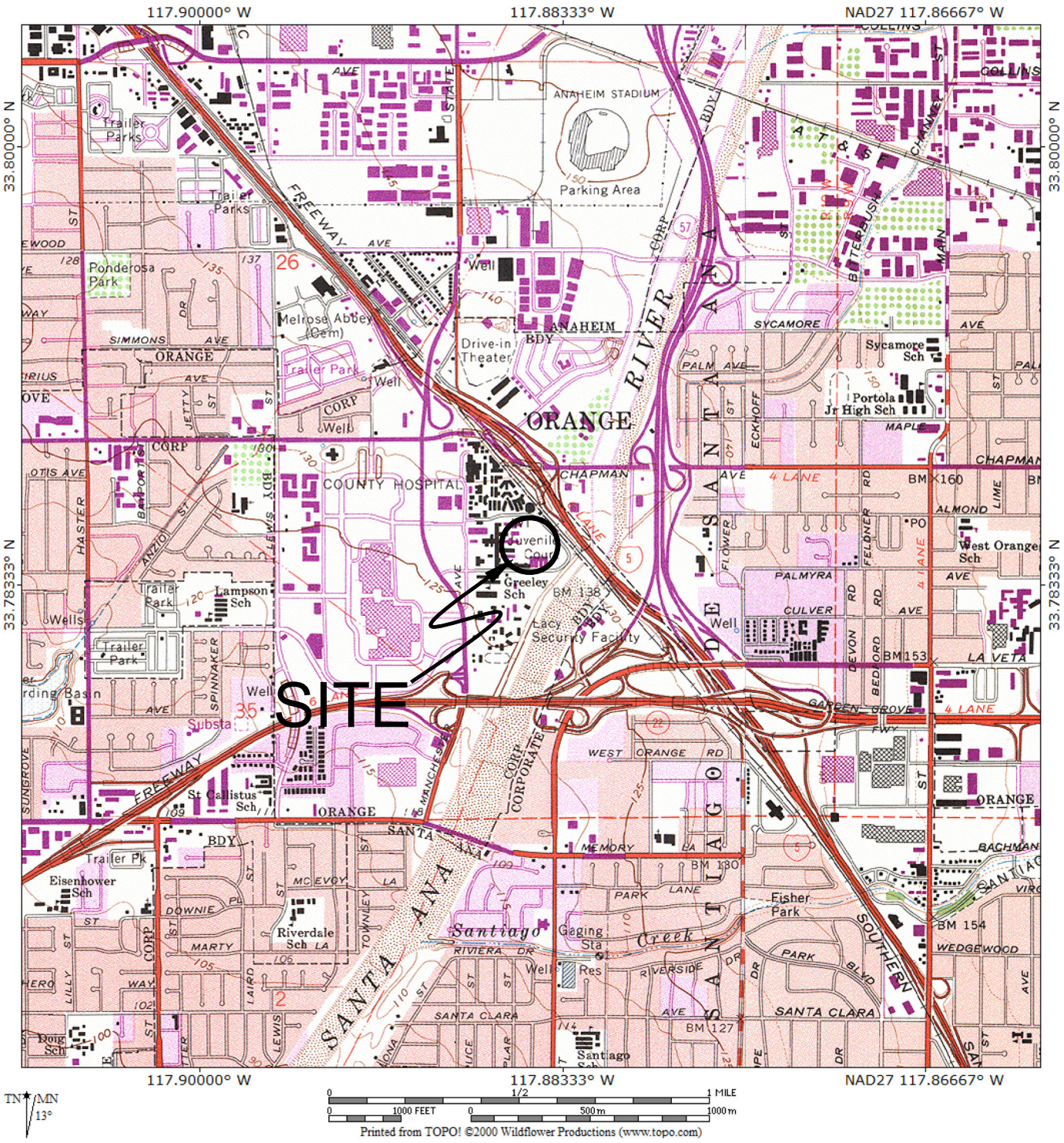
18. Ziony, J. I., and Jones, L. M., 1989, Map Showing Late Quaternary Faults and 1978–1984 Seismicity of the Los Angeles Region, California, U.S. Geological Survey Miscellaneous Field Studies Map MF-1964.




REFERENCE: U.S.G.S. TOPOGRAPHIC MAPS, 7.5 MINUTE SERIES, ANAHEIM, CA QUADRANGLE

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|---|---|

# VICINITY MAP

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

| MARCH 2024 | PROJECT NO. W1857-88-01 | FIG. 1 |
|---|---|---|

# LEGEND

M — Approximate Boring Locations

CPT-3 — Approximate CPT Location

Approximate Limits of Project

NORTH

0 100' 200'


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# SITE PLAN

OC YTC
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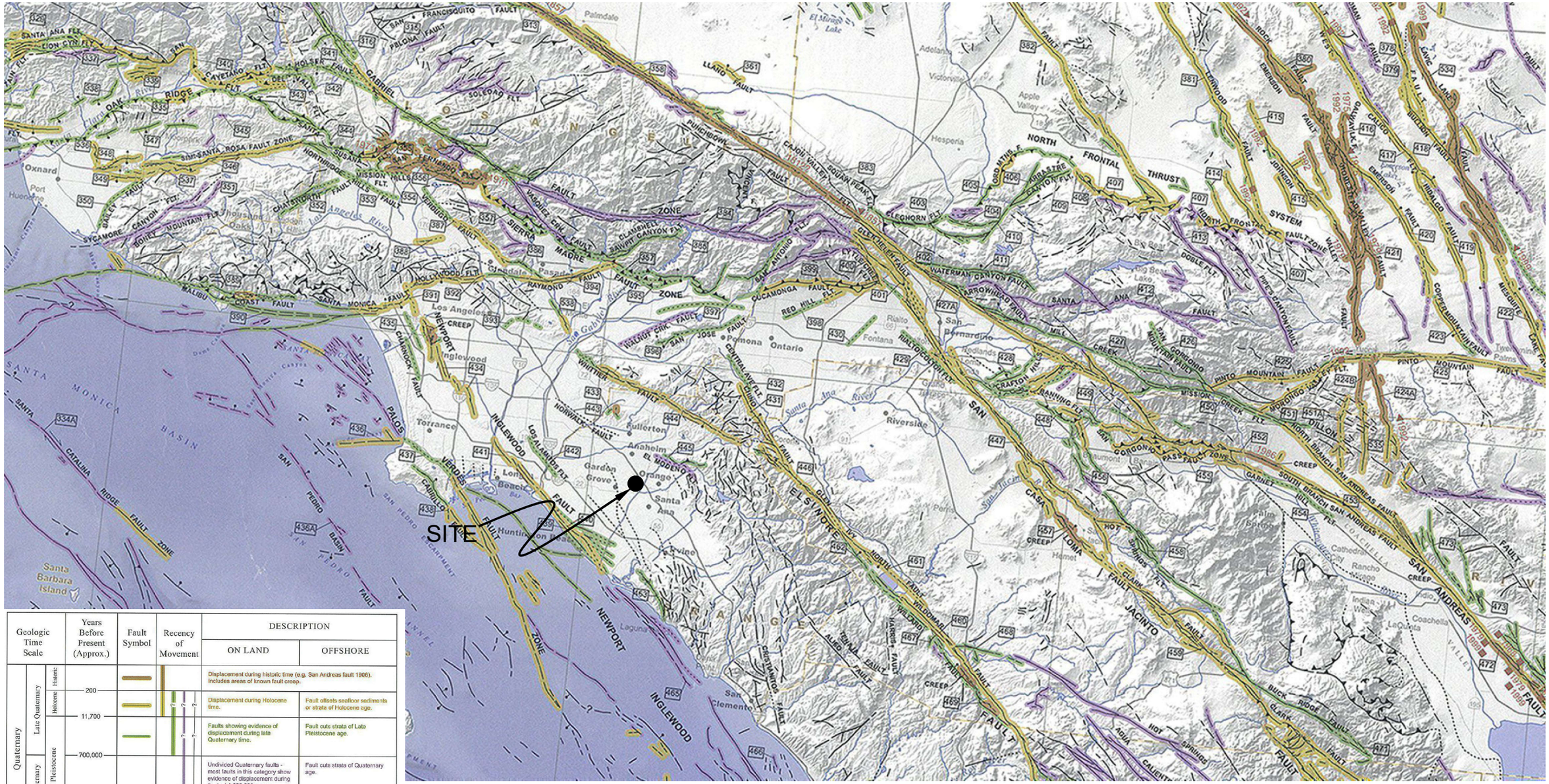
| MARCH 2024 | PROJECT NO. W1857-88-01 | FIG. 2 |
|---|---|---|

Reference: Jennings, C.W. and Bryant, W. A., 2010, Fault Activity Map of California, California Geological Survey Geologic Data Map No. 6.




| Geologic Time Scale | | Years Before Present (Approx.) | Fault Symbol | Recency of Movement | DESCRIPTION: ON LAND | DESCRIPTION: OFFSHORE |
|---|---|---|---|---|---|---|
| Quaternary | Late Quaternary, Historic | | | | Displacement during historic time (e.g. San Andreas fault 1906). Includes areas of known fault creep. | |
| Quaternary | Late Quaternary, Holocene | 200 | | | Displacement during Holocene time. | Fault offsets seafloor sediments or strata of Holocene age. |
| Quaternary | Late Quaternary, Pleistocene | 11,700 | | | Faults showing evidence of displacement during late Quaternary time. | Fault cuts strata of Late Pleistocene age. |
| Quaternary | Early Quaternary, Pleistocene | 700,000 | | | Undivided Quaternary faults - most faults in this category show evidence of displacement during the last 1,600,000 years; possible exceptions are faults which displace rocks of undifferentiated Plio-Pleistocene age. | Fault cuts strata of Quaternary age. |
| Pre-Quaternary | | 1,600,000* | | | Faults without recognized Quaternary displacement or showing evidence of no displacement during Quaternary time. Not necessarily inactive. | Fault cuts strata of Pliocene or older age. |
| | | 4.5 billion (Age of Earth) | | | | |

* Quaternary now recognized as extending to 2.6 Ma (Walker and Geissman, 2009). Quaternary faults in this map were established using the previous 1.6 Ma criterion.

N

0 12 24 Miles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# REGIONAL FAULT MAP

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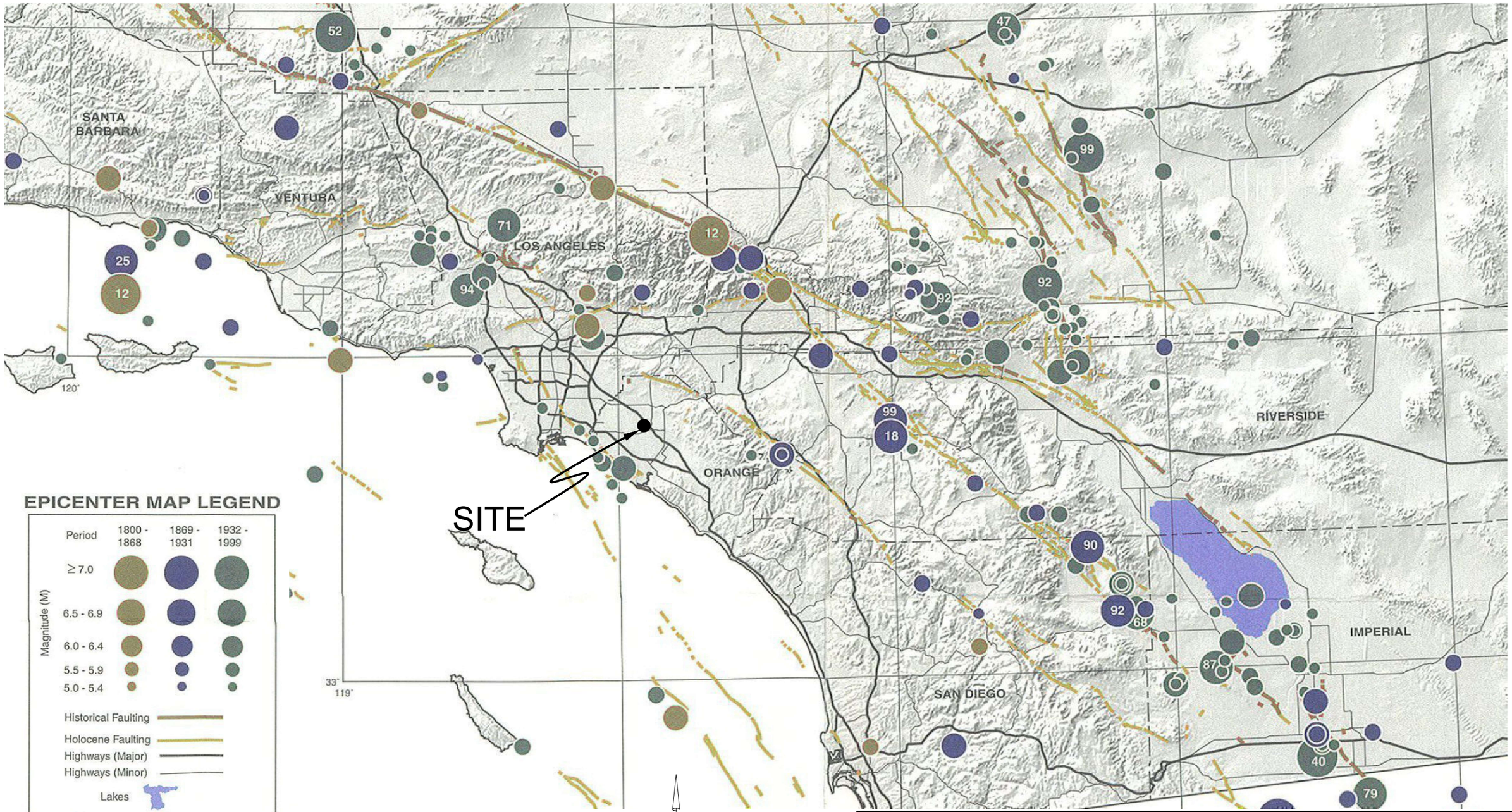
MARCH 2024 | PROJECT NO. W1857-88-01 | FIG. 3




Reference: Toppozada, T., Branum, D., Petersen, M., Hallstrom, C., Cramer, C., and Reichle, M., 2000, Epicenters and Areas Damaged by M>5 California Earthquakes, 1800 - 1999, California Geological Survey, Map Sheet 49.

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# REGIONAL SEISMICITY MAP

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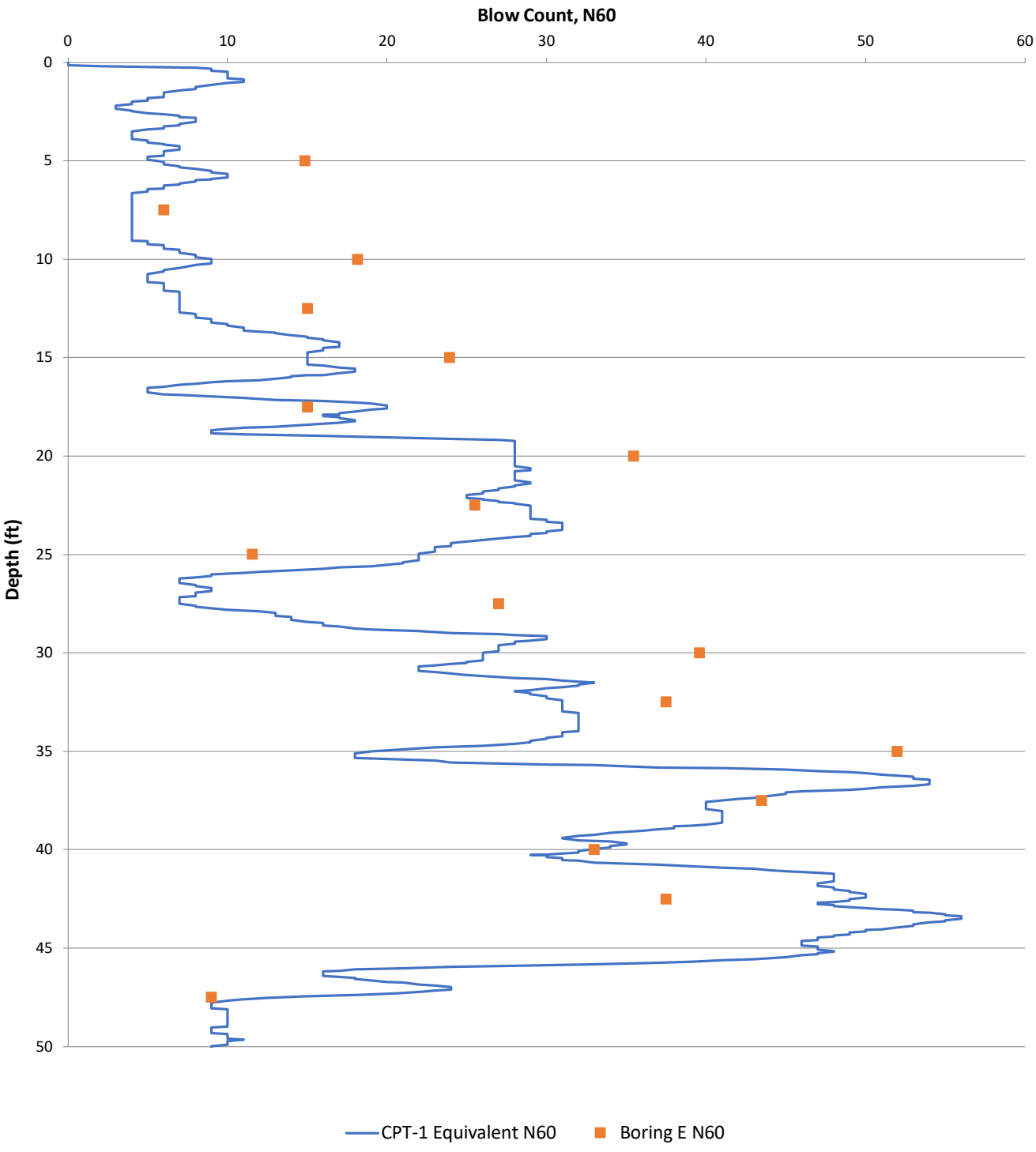
ORANGE, CALIFORNIA

| MARCH 2024 | PROJECT NO. W1857-88-01 | FIG. 4 |
|---|---|---|

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|---|---|

## CORRELATION OF BORING AND CPT N60

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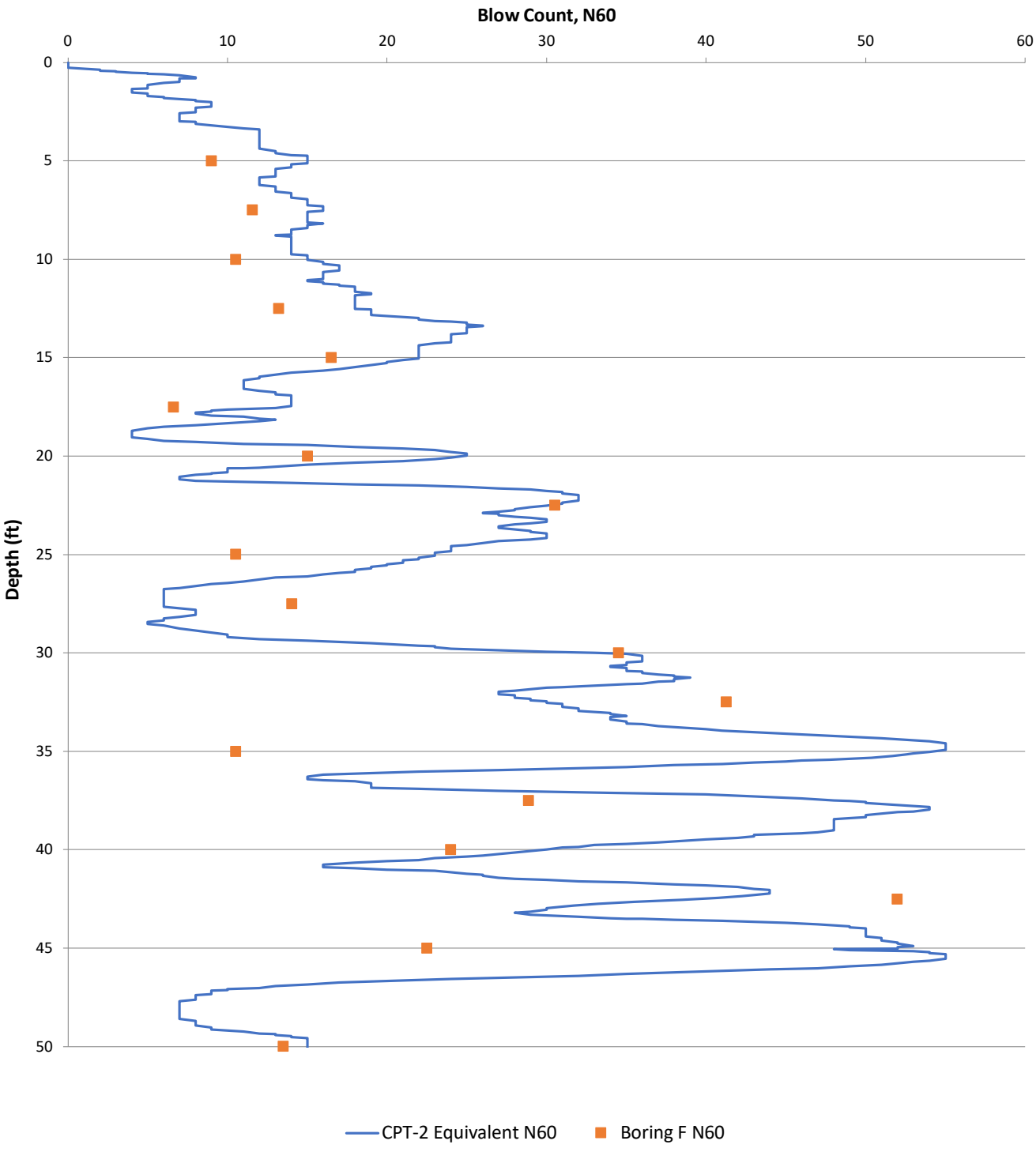
ORANGE, CALIFORNIA

| MARCH 2024 | PROJECT NO. W1857-88-01 | FIG. 5 |
|---|---|---|

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## CORRELATION OF BORING AND CPT N60

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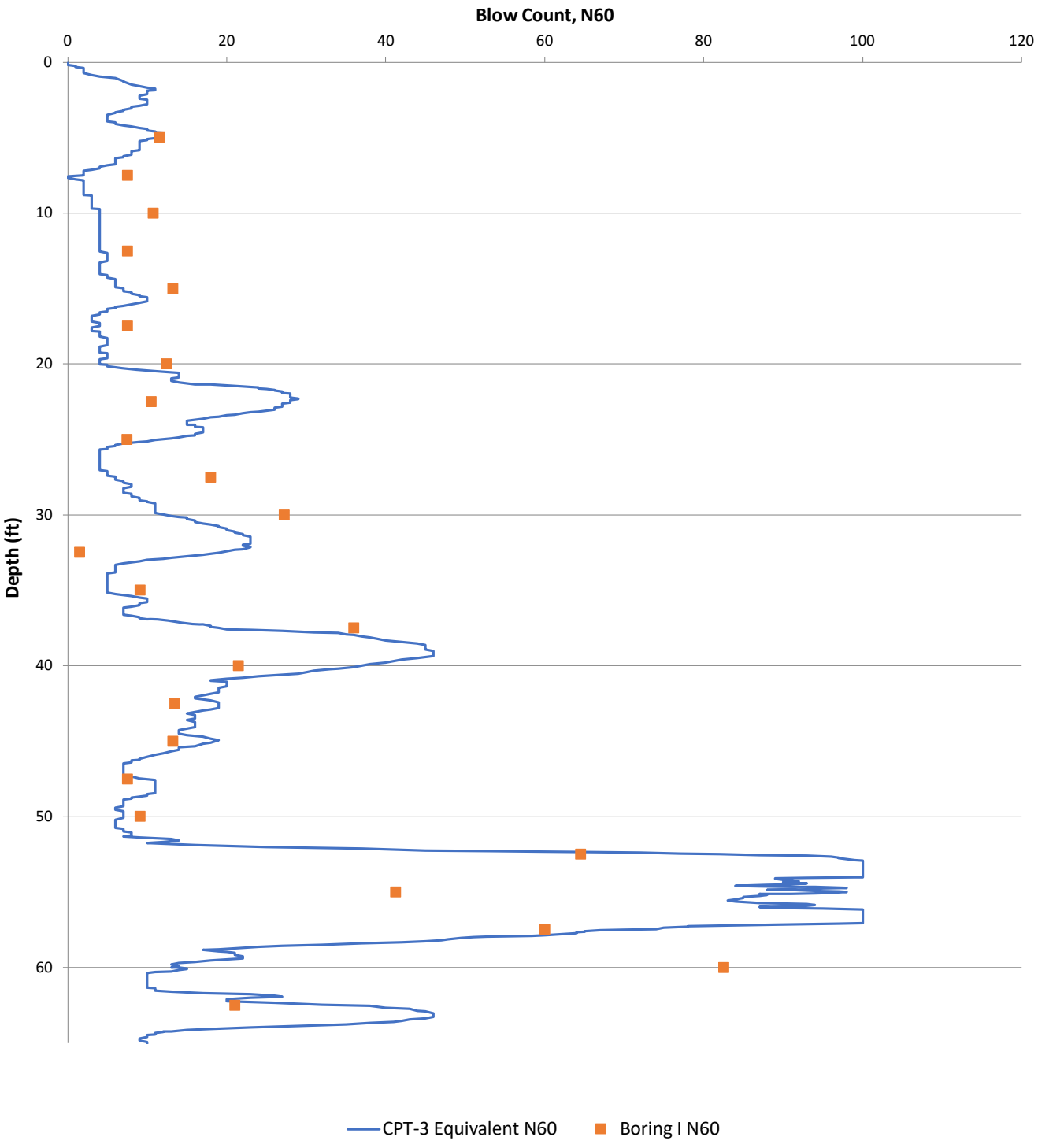
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

| MARCH 2024 | PROJECT NO. W1857-88-01 | FIG. 6 |
|---|---|---|

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## CORRELATION OF BORING AND CPT N60

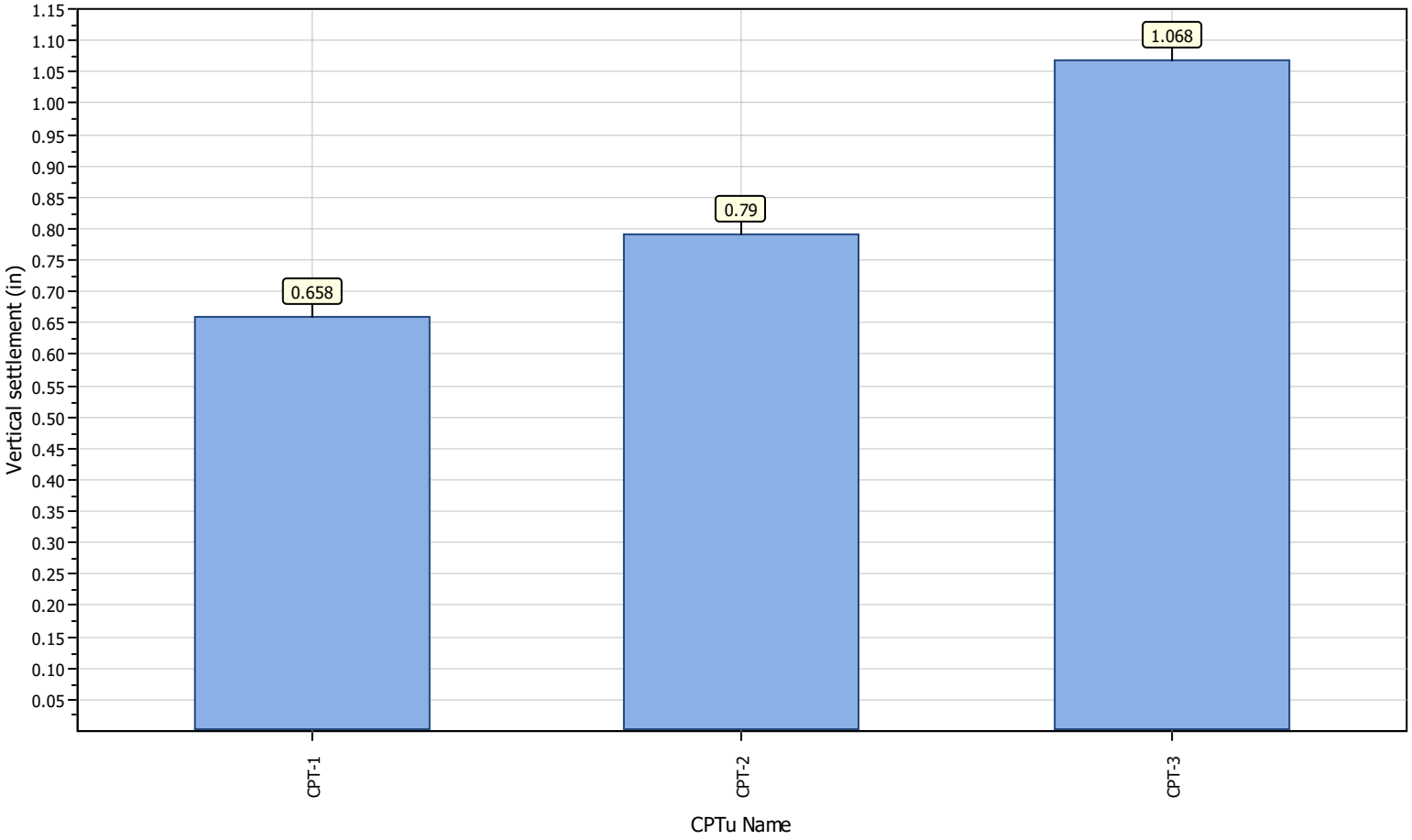
OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

| MARCH 2024 | PROJECT NO. W1857-88-01 | FIG. 7 |
|---|---|---|

**Project title : W1857-88-01**

**Location : 331 The City Drive S**

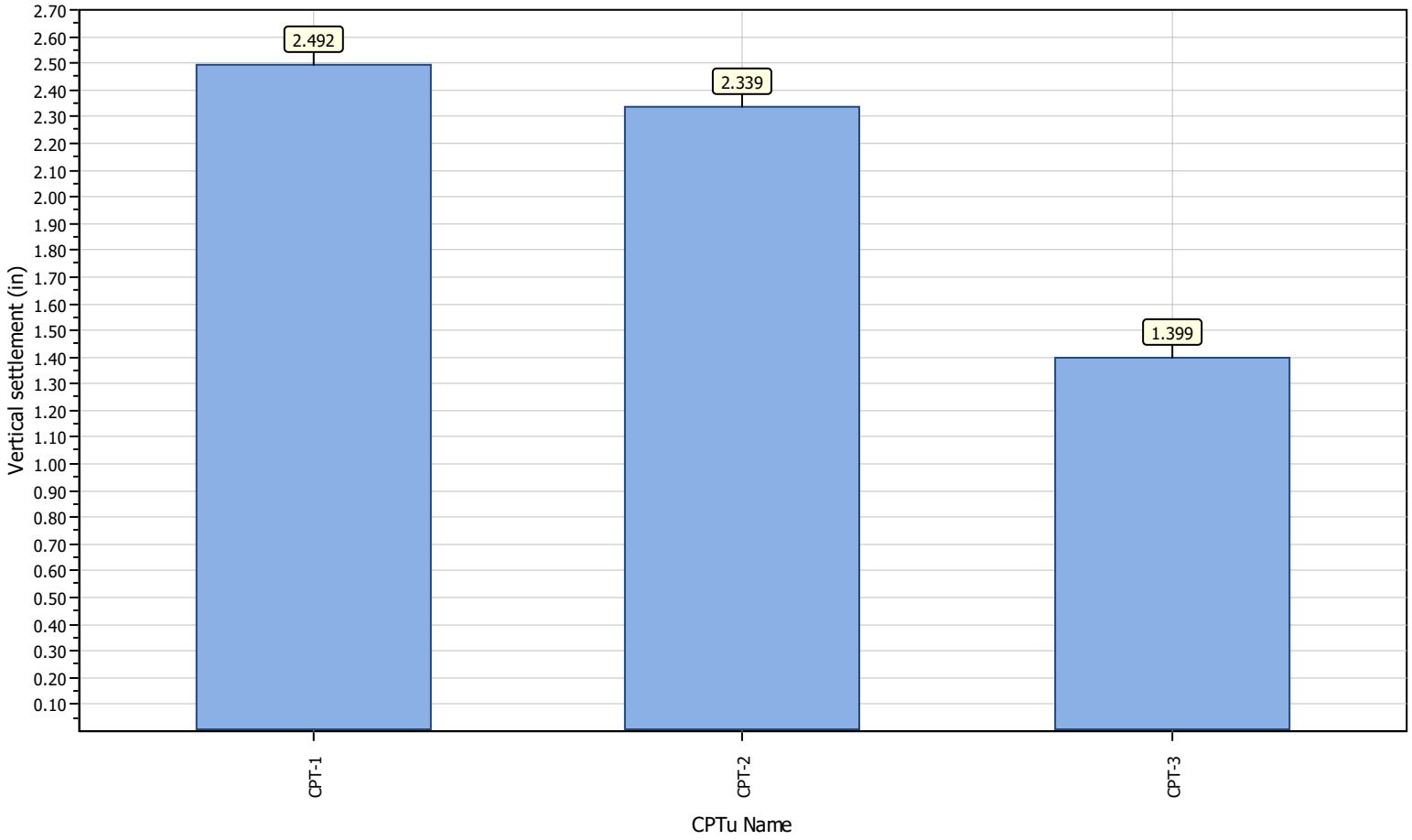
## DE Overall vertical settlements report



**Project title : W1857-88-01**

**Location : 331 The City Drive S**

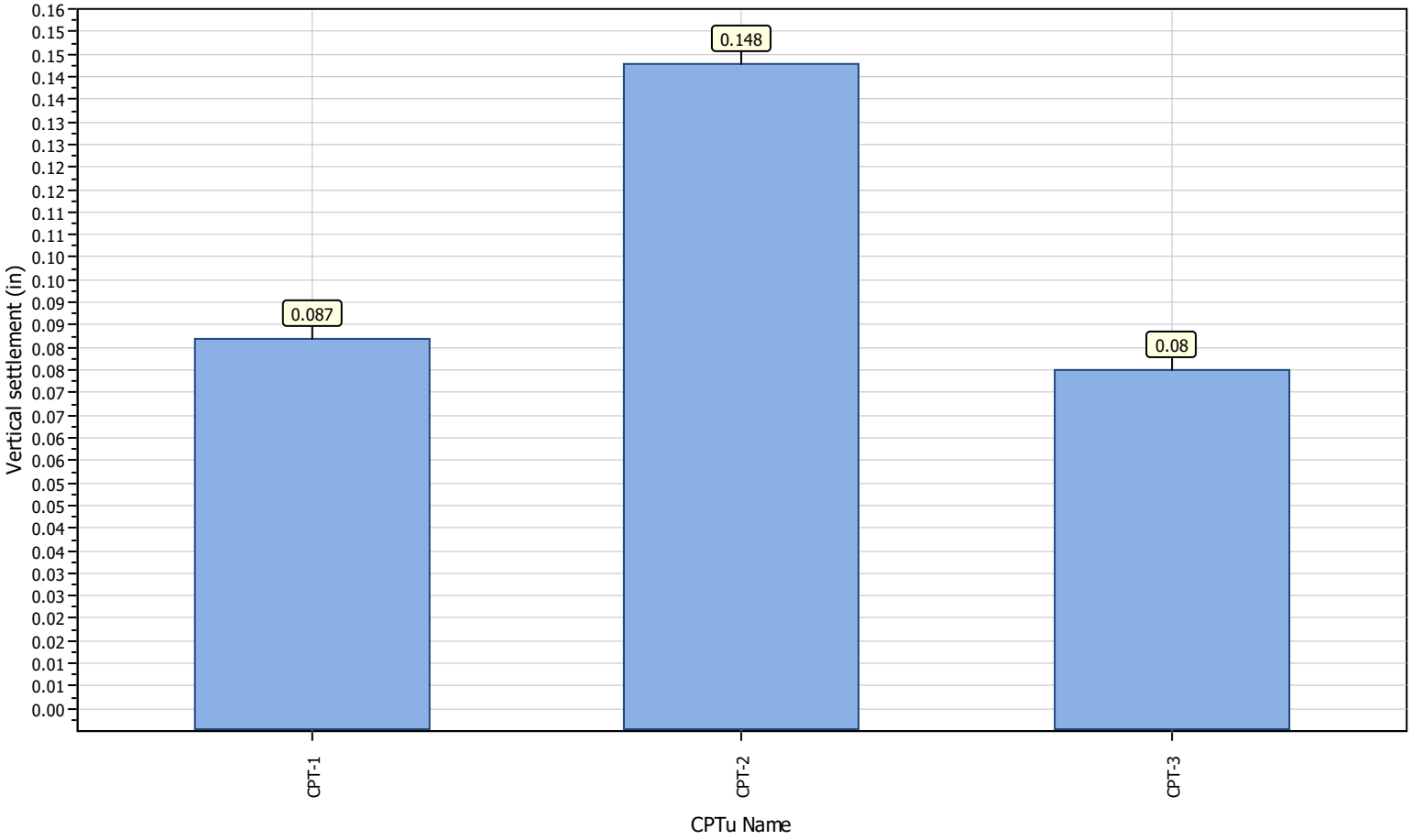
## MCE Overall vertical settlements report



**Project title : W1857-88-01**

**Location : 331 The City Drive S**

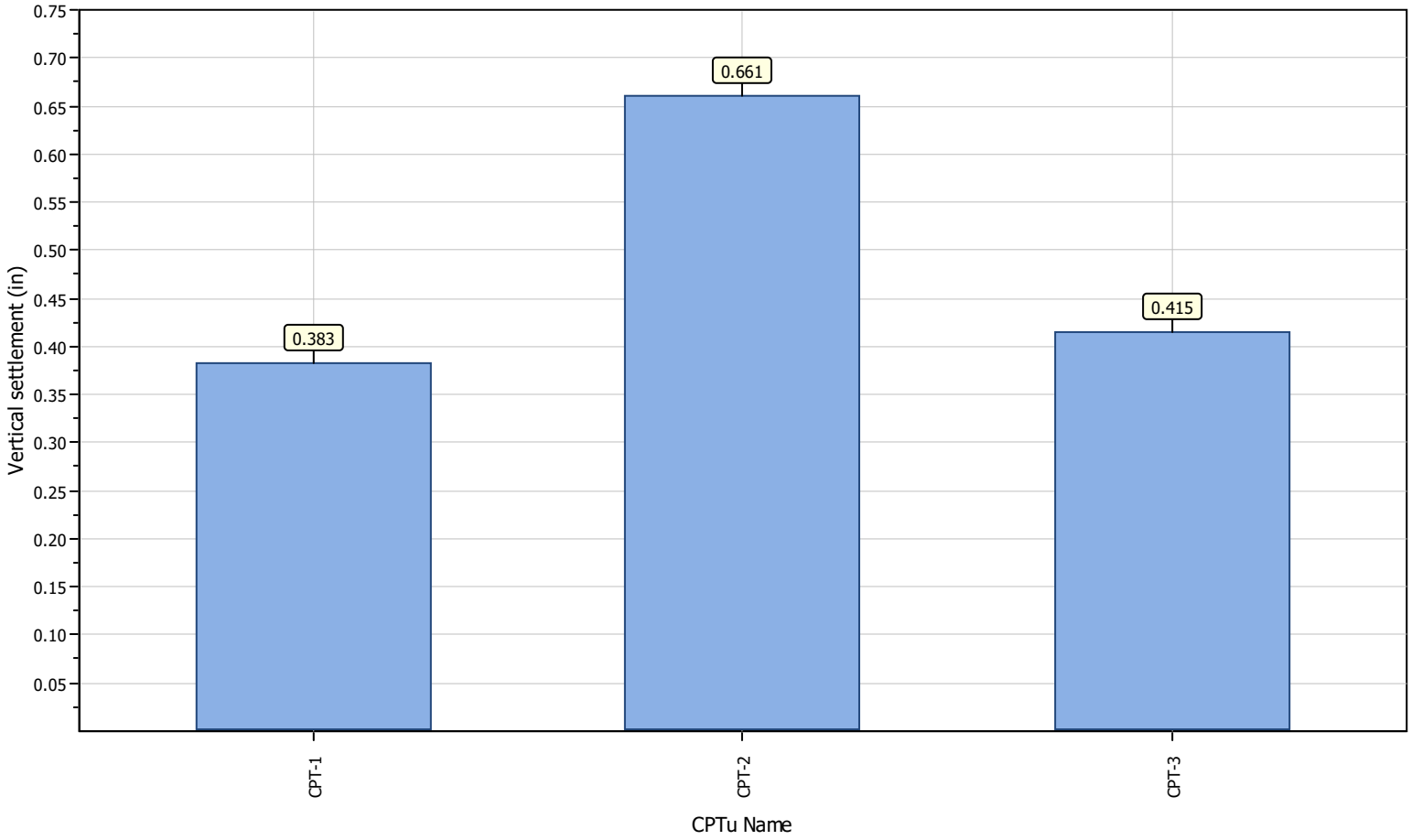
## DE Overall vertical settlements report Dry Sands



**Project title : W1857-88-01**

**Location : 331 The City Drive S**

## MCE Overall vertical settlements report Dry Sands



## Slot Cut Calculation

Input:

| | | | |
|---|---|---|---|
| Height of Slots | (H) | 5.00 | feet |
| Unit Weight of Soils | (γ) | 115.0 | pcf |
| Friction Angle of Soils | (ϕ) | 31.0 | degrees |
| Cohesion of Soils | (c) | 150.0 | psf |
| Factor of Safety | (FS) | 1.25 | |

Factor of Safety = Resistance Force/Driving Force

**Design Equations**

$b = H/(\tan \alpha)$

$A = 0.5*H*b$

$W = 0.5*H*b*\gamma$ *(per lineal foot of slot width)*

$F_1 = d*W*(\sin \alpha)$

$R_1 = d*[W*(\cos\alpha)*(\tan \phi)+(c*b)]$

$R_2 = 2*[(0.5*H*b)*c]$

**FS = Resistance Force/Driving Force**

**$FS = (R_1+R_2)/(F_1)$**

Surcharge Pressure:

| | | | |
|---|---|---|---|
| Line Load Surcharge | ($q_L$) | 0.0 | plf |
| Distance Away from Excavation | (X) | 0.0 | feet |

| Failure Angle (α) | Width of Failure Wedge (b) | Area of Wedge (A) | Weight of Wedge (W) | **Driving Force ($F_1$)** Wedge + Surcharge per lineal foot of Slot Wdith | **Resisting Force ($R_1$)** Failure Wedge per lineal foot of Slot Width | **Resisting Force ($R_2$)** Side Resistance Force lbs | **Allowable Width of Slots* (d)** |
|---|---|---|---|---|---|---|---|
| degrees | feet | $feet^2$ | lbs/lineal foot | | | | feet |
| 45 | 5.0 | 13 | 1437.5 | 1016.5 | 1671.4 | 3750.0 | 8.0 |
| 46 | 4.8 | 12 | 1388.2 | 998.6 | 1622.0 | 3621.3 | 8.0 |
| 47 | 4.7 | 12 | 1340.5 | 980.4 | 1574.8 | 3496.9 | 8.0 |
| 48 | 4.5 | 11 | 1294.3 | 961.9 | 1529.6 | 3376.5 | 8.0 |
| 49 | 4.3 | 11 | 1249.6 | 943.1 | 1486.4 | 3259.8 | 8.0 |
| 50 | 4.2 | 10 | 1206.2 | 924.0 | 1444.9 | 3146.6 | 8.0 |
| 51 | 4.0 | 10 | 1164.1 | 904.6 | 1405.2 | 3036.7 | 8.0 |
| 52 | 3.9 | 10 | 1123.1 | 885.0 | 1367.2 | 2929.8 | 8.0 |
| 53 | 3.8 | 9 | 1083.2 | 865.1 | 1330.8 | 2825.8 | 8.0 |
| 54 | 3.6 | 9 | 1044.4 | 844.9 | 1295.9 | 2724.5 | 8.0 |
| 55 | 3.5 | 9 | 1006.5 | 824.5 | 1262.5 | 2625.8 | 8.0 |
| 56 | 3.4 | 8 | 969.6 | 803.8 | 1230.4 | 2529.4 | 8.0 |
| 57 | 3.2 | 8 | 933.5 | 782.9 | 1199.8 | 2435.3 | 8.0 |
| 58 | 3.1 | 8 | 898.2 | 761.8 | 1170.4 | 2343.3 | 8.0 |
| 59 | 3.0 | 8 | 863.7 | 740.4 | 1142.3 | 2253.2 | 8.0 |
| 60 | 2.9 | 7 | 829.9 | 718.8 | 1115.4 | 2165.1 | 8.0 |
| 61 | 2.8 | 7 | 796.8 | 696.9 | 1089.6 | 2078.7 | 8.0 |
| 62 | 2.7 | 7 | 764.3 | 674.9 | 1065.0 | 1993.9 | 8.0 |
| 63 | 2.5 | 6 | 732.4 | 652.6 | 1041.5 | 1910.7 | 8.0 |
| 64 | 2.4 | 6 | 701.1 | 630.2 | 1019.1 | 1829.0 | 8.0 |
| 65 | 2.3 | 6 | 670.3 | 607.5 | 997.8 | 1748.7 | 8.0 |
| 66 | 2.2 | 6 | 640.0 | 584.7 | 977.4 | 1669.6 | 8.0 |
| 67 | 2.1 | 5 | 610.2 | 561.7 | 958.0 | 1591.8 | 8.0 |
| 68 | 2.0 | 5 | 580.8 | 538.5 | 939.6 | 1515.1 | 8.0 |
| 69 | 1.9 | 5 | 551.8 | 515.2 | 922.2 | 1439.5 | 8.0 |
| 70 | 1.8 | 5 | 523.2 | 491.7 | 905.7 | 1364.9 | 8.0 |

* Width of Slots to achieve a minimum of 1.25 Factor of Safety, with a Maximum Allowable Slot Width of 8-feet.

Critical Slot Width with Factor of Safety equal or exceeding 1.25:

**$d_{allow}$ = 8.0 feet**

GEOCON WEST, INC.

ENVIRONMENTAL GEOTECHNICAL MATERIALS

SLOT CUT CALCULATION

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

| DRAFTED BY: JTA | CHECKED BY: JTA | March 24 | PROJECT NO. W1857-88-01 | FIG. 12 |
|---|---|---|---|---|

## PERCOLATION TEST DATA SHEET

| | | | | | |
|---|---|---|---|---|---|
| **Project:** | OC YTC | **Project No.:** | W1857-88-01 | **Date:** | Tuesday, February 13, 2024 |
| **Test Hole No.:** | L | **Tested By:** | JC | | |
| **Depth of Test Hole, DT:** | 10 | **USCS Soil Classification:** | SM | | |
| **Test Hole Dimensions (inches)** | | | **Length** | **Width** | |
| **Diameter (if round) =** | 8 | **Sides (if rectangular) =** | - | - | |

**Sandy Soil Criteria Test***

| Trial No. | Start Time | End Time | Δt Time Interval (min) | $D_0$ Initial Depth to Water (in) | $D_f$ Final Depth to Water (in) | ΔD Change in Water Level (in) | Greater than or Equal to 6"? (y/n) |
|---|---|---|---|---|---|---|---|
| **1** | 8:02 AM | 8:27 AM | 25 | **60.0** | **83.4** | **23.4** | **yes** |
| **2** | 8:30 AM | 8:55 AM | 25 | **60.0** | **81** | **21** | **yes** |

*If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements, taken every 10 minutes. Otherwise, pre-soak (fill) overnight. Obtain at least twelve measurements per hole over at least six hours (approximately 30 minute intervals) with a precision of at least 0.25".

| Trial No. | Start Time | End Time | Δt Time Interval (min) | $D_0$ Initial Depth to Water (in) | $D_f$ Final Depth to Water (in) | ΔD Change in Water Level (in) | Percolation Rate (min/in) |
|---|---|---|---|---|---|---|---|
| 1 | 9:14 AM | 9:24 AM | 10.00 | 60.0 | 68.0 | 8.0 | 1.24 |
| 2 | 9:26 AM | 9:36 AM | 10.00 | 60.0 | 68.0 | 8.0 | 1.24 |
| 3 | 9:38 AM | 9:48 AM | 10.00 | 60.0 | 67.2 | 7.2 | 1.39 |
| 4 | 9:50 AM | 10:00 AM | 10.00 | 60.0 | 66.8 | 6.8 | 1.46 |
| 5 | 10:01 AM | 10:11 AM | 10.00 | 60.0 | 66.8 | 6.8 | 1.46 |
| 6 | 10:13 AM | 10:23 AM | 10.00 | 60.0 | 66.8 | 6.8 | 1.46 |
| 7 | | | | | | | |
| 8 | | | | | | | |

**Infiltration Rate Calculation:**

| | | | | | |
|---|---|---|---|---|---|
| Time Interval, Δt = | 10.00 | minutes | $H_o$ = | 60.0 | inches |
| Final Depth to Water, $D_f$ = | 66.8 | inches | $H_f$ = | 53.2 | inches |
| Test Hole Radius, r = | 4 | inches | ΔH = | 6.8 | inches |
| Initial Depth to Water, $D_0$ = | 60.0 | inches | $H_{avg}$ = | 56.6 | inches |
| Total Depth of Test Hole, $D_t$ = | 120 | inches | $I_t = \frac{\Delta H(60r)}{\Delta t(r+2H_{avg})}$ | | |
| | | | **Infiltration Rate, $I_t$ =** | **1.40** | **inches/hour** |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ENVIRONMENTAL GEOTECHNICAL MATERIALS
2807 MCGAW AVENUE - IRVINE, CALIFORNIA, 92614
PHONE: 949-491-6570


**PERCOLATION TEST RESULTS AND CALCULATIONS**

331 THE CITY DRIVE S
ORANGE, CALIFORNIA
OC YTC

| | | |
|---|---|---|
| DRAFTED BY: ACS | CHECKED BY: JTA | |
| MAR 2024 | PROJECT NO. W1857-88-01 | FIG. 13 |

## PERCOLATION TEST DATA SHEET

| | | | | | |
|---|---|---|---|---|---|
| **Project:** | OC YTC | **Project No.:** | W1857-88-01 | **Date:** | Tuesday, February 13, 2024 |
| **Test Hole No.:** | M | **Tested By:** | JC | | |
| **Depth of Test Hole, DT:** | 5 | **USCS Soil Classification:** | SM | | |
| **Test Hole Dimensions (inches)** | | | **Length** | **Width** | |
| **Diameter (if round) =** | 8 | **Sides (if rectangular) =** | - | - | |

**Sandy Soil Criteria Test***

| Trial No. | Start Time | End Time | Δt Time Interval (min) | $D_0$ Initial Depth to Water (in) | $D_f$ Final Depth to Water (in) | ΔD Change in Water Level (in) | Greater than or Equal to 6"? (y/n) |
|---|---|---|---|---|---|---|---|
| **1** | 8:16 AM | 8:41 AM | 25 | **39.0** | **49.8** | **10.8** | **yes** |
| **2** | 8:44 AM | 9:09 AM | 25 | **31.8** | **42.6** | **10.8** | **yes** |

*If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements, taken every 10 minutes. Otherwise, pre-soak (fill) overnight. Obtain at least twelve measurements per hole over at least six hours (approximately 30 minute intervals) with a precision of at least 0.25".

| Trial No. | Start Time | End Time | Δt Time Interval (min) | $D_0$ Initial Depth to Water (in) | $D_f$ Final Depth to Water (in) | ΔD Change in Water Level (in) | Percolation Rate (min/in) |
|---|---|---|---|---|---|---|---|
| 1 | 10:32 AM | 10:42 AM | 10.00 | 42.6 | 45.4 | 2.8 | 3.62 |
| 2 | 10:45 AM | 10:55 AM | 10.00 | 42.6 | 46.2 | 3.6 | 2.78 |
| 3 | 11:03 AM | 11:13 AM | 10.00 | 42.6 | 46.3 | 3.7 | 2.69 |
| 4 | 11:16 AM | 11:26 AM | 10.00 | 42.6 | 46.3 | 3.7 | 2.69 |
| 5 | 11:28 AM | 11:38 AM | 10.00 | 42.6 | 46.3 | 3.7 | 2.69 |
| 6 | 11:41 AM | 11:51 AM | 10.00 | 42.6 | 46.6 | 4.0 | 2.53 |
| 7 | | | | | | | |
| 8 | | | | | | | |

**Infiltration Rate Calculation:**

| | | | | | |
|---|---|---|---|---|---|
| Time Interval, Δt = | 10.00 | minutes | $H_o$ = | 17.4 | inches |
| Final Depth to Water, $D_f$ = | 46.6 | inches | $H_f$ = | 13.4 | inches |
| Test Hole Radius, r = | 4 | inches | ΔH = | 4.0 | inches |
| Initial Depth to Water, $D_0$ = | 42.6 | inches | $H_{avg}$ = | 15.4 | inches |
| Total Depth of Test Hole, $D_t$ = | 60 | inches | $I_t = \frac{\Delta H(60r)}{\Delta t(r+2H_{avg})}$ | | |
| | | | **Infiltration Rate, $I_t$ =** | **2.73** | **inches/hour** |


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| | |
|---|---|
| DRAFTED BY: ACS | CHECKED BY: JTA |

**PERCOLATION TEST RESULTS AND CALCULATIONS**

331 THE CITY DRIVE S
ORANGE, CALIFORNIA
OC YTC

| | | |
|---|---|---|
| MAR 2024 | PROJECT NO. W1857-88-01 | FIG. 14 |

# APPENDIX A

# APPENDIX A

# FIELD INVESTIGATION

The site was explored between February 7 and 13, 2024, by excavating eight 8-inch-diameter borings using a truck-mounted hollow-stem auger drilling machine and a limited access drilling machine to depths of 5 to 63.5 feet beneath the ground surface. Additionally, five borings were excavated using 3-inch hand augers to depths between 15 and 16½ feet beneath the ground surface. Representative and relatively undisturbed samples were obtained by driving a 3-inch, O. D., California Modified Sampler into the "undisturbed" soil mass with blows from a 140-pound auto-hammer falling 30 inches (hollow stem borings) or from a slide hammer (hand auger borings). The California Modified Sampler was equipped with 1-inch by $2\frac{3}{8}$-inch diameter brass sampler rings to facilitate soil removal and testing. Standard Penetration Tests were performed and bulk samples were also obtained.

The soil conditions encountered in the borings were visually examined, classified and logged in general accordance with the Unified Soil Classification System (USCS). The logs of the borings are presented on Figures A1 through A13. The logs depict the soil and geologic conditions encountered and the depth at which samples were obtained. The logs also include our interpretation of the conditions between sampling intervals. Therefore, the logs contain both observed and interpreted data. We determined the lines designating the interface between soil materials on the logs using visual observations, penetration rates, excavation characteristics and other factors. The transition between materials may be abrupt or gradual. Where applicable, the logs were revised based on subsequent laboratory testing.

Three Cone Penetrometer Tests (CPTs) were also advanced on February 12, 2024, to approximate depths of 63 to 100 feet below the ground surface using a truck-mounted 30-ton CPT rig.

The approximate locations of the borings and CPTs are shown on Figure 2.

PROJECT NO. W1857-88-01

## BORING A

ELEV. (MSL.) -- DATE COMPLETED **02/12/2024**

EQUIPMENT **HAND AUGER** BY: **ACS**

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | MATERIAL DESCRIPTION | PENETRATION RESISTANCE (BLOWS/FT*) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---|---|---|---|---|---|---|---|
| 0 | BULK 0-5' | | | | **ARTIFICIAL FILL**<br>Silty Sand, loose, moist, brown, fine-grained. | | | |
| 2 | | | | | **ALLUVIUM** | | | |
| 4 | A@3' | | | SP | Sand, poorly graded, loose, moist, gray, fine-grained. | | 99.6 | 7.5 |
| 6 | A@5' | | | | | | 102.2 | 10.2 |
| 8 | A@7' | | | CL | Sandy Clay, firm, moist, brown, fine-grained. | | 96.8 | 24.5 |
| 10 | A@10' | | | SM | Silty Sand, medium dense, moist, brown, fine- to medium-grained. | | 106.2 | 16.6 |
| 12 | | | | | | | | |
| 14 | | | | | | | | |
| 16 | A@15' | | | | | | 97.2 | 8.1 |
| | | | | | Total depth of boring: 16.5 feet<br>Fill to 2 feet.<br>No groundwater encountered.<br>Backfilled with soil cuttings and tamped.<br><br>*Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.<br>NOTE: The stratification lines presented herein represent the approximate boundary between earth types; the transitions may be gradual. | | | |

W1857-88-01 BORING LOGS.GPJ

**Figure A1,**
**Log of Boring A, Page 1 of 1**

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

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PROJECT NO. W1857-88-01

## BORING B

ELEV. (MSL.) -- DATE COMPLETED **02/12/2024**

EQUIPMENT **HAND AUGER** BY: **ACS**

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | MATERIAL DESCRIPTION | PENETRATION RESISTANCE (BLOWS/FT*) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---|---|---|---|---|---|---|---|
| 0 | BULK 0-5' | | | | **ARTIFICIAL FILL**<br>Silty Sand, loose, moist, brown, fine- to medium-grained. | | | |
| 2 | | | | | **ALLUVIUM**<br>Silty Sand, loose, moist, gray, fine-grained. | | | |
| 4 | B@3' | | | SM | | | | |
| 6 | B@5' | | | | - loose, fine- to medium-grained | | 100.5 | 14.2 |
| 8 | B@7' | | | | Sand, poorly graded, loose, moist, brown, fine-grained. | | 104.0 | 19.1 |
| 10 | B@10' | | | SP | - fine- to medium-grained | | 87.3 | 19.4 |
| 12 | | | | | | | | |
| 14 | | | | SC | Clayey Sand, medium dense, moist, brown, fine- to medium-grained. | | | |
| | | | | | Silty Sand, loose, moist, brown, fine-grained. | | | |
| | B@15' | | | SM | | | 34.1 | 16.8 |
| 16 | | | | | Total depth of boring: 16 feet<br>Fill to 2 feet.<br>No groundwater encountered.<br>Backfilled with soil cuttings and tamped.<br><br>*Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.<br>NOTE: The stratification lines presented herein represent the approximate boundary between earth types; the transitions may be gradual. | | | |

W1857-88-01 BORING LOGS.GPJ

**Figure A2,**
**Log of Boring B, Page 1 of 1**

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

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PROJECT NO. W1857-88-01

## BORING C

ELEV. (MSL.) -- DATE COMPLETED **02/09/2024**

EQUIPMENT **HOLLOW STEM AUGER** BY: **ACS**

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | MATERIAL DESCRIPTION | PENETRATION RESISTANCE (BLOWS/FT*) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | **ARTIFICIAL FILL**<br>Silty Sand, loose, moist, dark brown, fine-grained. | | | |
| 2 | | | | | **ALLUVIUM**<br>Silty Sand, loose, moist, gray, fine-grained. | | | |
| 4 | | | | | | | | |
| 6 | C@5' | | | | | 12 | 100.2 | 13.7 |
| 8 | C@7' | | | SM | | 12 | 98.2 | 25.0 |
| 10 | C@10' | | | | | 10 | 88.6 | 22.4 |
| 12 | C@12' | | | | - medium dense | 23 | 106.1 | 16.1 |
| 14 | C@15' | | | | | 25 | 94.6 | 9.9 |
| | | | | | Total depth of boring: 15.5 feet<br>Fill to 2 feet.<br>No groundwater encountered.<br>Backfilled with soil cuttings and tamped.<br><br>*Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.<br>NOTE: The stratification lines presented herein represent the approximate boundary between earth types; the transitions may be gradual. | | | |

W1857-88-01 BORING LOGS.GPJ

**Figure A3,**
**Log of Boring C, Page 1 of 1**

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

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PROJECT NO. W1857-88-01

## BORING D

ELEV. (MSL.) -- DATE COMPLETED **02/07/2024**

EQUIPMENT **HOLLOW STEM AUGER** BY: **ACS**

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | MATERIAL DESCRIPTION | PENETRATION RESISTANCE (BLOWS/FT*) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---|---|---|---|---|---|---|---|
| 0 | BULK 0-5' | | | | **ARTIFICIAL FILL**<br>Silty Sand, medium dense, moist, dark brown, fine- to medium-grained. | | | |
| 2 | | | | | **ALLUVIUM**<br>Sand, poorly graded, medium dense, moist, light brown, medium- to coarse-grained. | | | |
| 4 | | | | | | | | |
| 6 | D@5' | | | SP | - loose | 17 | 91.3 | 3.7 |
| 8 | D@7' | | | | | 12 | 85.7 | 4.1 |
| 10 | D@10' | | | | - medium dense | 20 | 104.1 | 5.5 |
| 12 | D@12' | | | | | 9 | 100.0 | 2.3 |
| 14 | | | | | Silty Sand, loose, moist, dark brown, fine- to medium-grained. | | | |
| 16 | D@15' | | | SM | | 13 | 92.1 | 10.2 |
| 18 | | | | | | | | |
| 20 | D@20' | | | ML | Sandy Silt, firm, moist, brown, fine-grained. | 20 | 95.3 | 24.8 |

Total depth of boring: 20.5 feet
Fill to 1 foot.
No groundwater encountered.
Backfilled with soil cuttings and tamped.

*Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.
NOTE: The stratification lines presented herein represent the approximate boundary between earth types; the transitions may be gradual.

W1857-88-01 BORING LOGS.GPJ

**Figure A4,**
**Log of Boring D, Page 1 of 1**

SAMPLE SYMBOLS

- ... SAMPLING UNSUCCESSFUL
- ... STANDARD PENETRATION TEST
- ... DRIVE SAMPLE (UNDISTURBED)
- ... DISTURBED OR BAG SAMPLE
- ... CHUNK SAMPLE
- ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

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PROJECT NO. W1857-88-01

## BORING E

ELEV. (MSL.) -- DATE COMPLETED **02/08/2024**

EQUIPMENT **HOLLOW STEM AUGER** BY: **ACS**

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | MATERIAL DESCRIPTION | PENETRATION RESISTANCE (BLOWS/FT*) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---|---|---|---|---|---|---|---|
| 0 | BULK 0-5' | | | | **ARTIFICIAL FILL** Silty Sand, loose, moist, dark brown. | | | |
| 2 | | | | | **ALLUVIUM** Sandy Silt, stiff, moist, gray, fine- to medium-grained. | | | |
| 4 | | | | | | | | |
| 6 | E@5' | | | | | 18 | 92.1 | 23.9 |
| 8 | E@7.5' | | | ML | - brown, fine-grained | 4 | | |
| 10 | E@10' | | | | - stiff, slightly moist, fine- to medium-grained | 22 | 109.4 | 17.4 |
| 12 | E@12.5' | | | | - firm, fine-grained | 10 | | |
| 14 | | | | | | | | |
| 16 | E@15' | | | | Silty Sand, medium dense, slighlty moist, brown, fine- to medium-grained. | 29 | 96.2 | 8.5 |
| 18 | E@17' | | | SM | - loose | 10 | | |
| 20 | E@20' | | | | - medium dense | 43 | 99.1 | 1.1 |
| 22 | E@22.5' | | | | Sand, poorly graded, medium dense, slightly moist, gray, fine-grained. | 17 | | |
| 24 | | | | SP | | | | |
| 26 | E@25' | | | | - loose | 14 | 73.8 | 12.4 |
| 28 | E@27.5' | | | SM | Silty Sand, medium dense, slighlty moist, gray, fine-grained. | 18 | | |

W1857-88-01 BORING LOGS.GPJ

**Figure A5,**
**Log of Boring E, Page 1 of 2**

SAMPLE SYMBOLS

- ... SAMPLING UNSUCCESSFUL
- ... STANDARD PENETRATION TEST
- ... DRIVE SAMPLE (UNDISTURBED)
- ... DISTURBED OR BAG SAMPLE
- ... CHUNK SAMPLE
- ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

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PROJECT NO. W1857-88-01

## BORING E

ELEV. (MSL.) -- DATE COMPLETED **02/08/2024**

EQUIPMENT **HOLLOW STEM AUGER** BY: **ACS**

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | MATERIAL DESCRIPTION | PENETRATION RESISTANCE (BLOWS/FT*) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---|---|---|---|---|---|---|---|
| 30 | E@30' | | | SM | - fine- to medium-grained. | 48 | 106.6 | 10.2 |
| 32 | E@32.5' | | | SP | Sand, poorly graded, medium dense, slightly moist, gray, fine- to medium-grained. | 25 | | |
| 34 | E@35' | | | | - dense | 63 | 104.0 | 4.7 |
| 36 | | | | | | | | |
| 38 | E@37.5' | | | | - medium dense, fine-grained | 29 | | |
| 40 | E@40' | | | | | 40 | 91.0 | 29.5 |
| 42 | E@42.5' | | | SM | Silty Sand, medium dense, slightly moist, gray, fine- to medium-grained. | 25 | | |
| 44 | | | | | | | | |
| 46 | | | | | | | | |
| 48 | E@47.5' | | | ML | Sandy Silt, soft, moist, brown, fine-grained. | 6 | | |

Total depth of boring: 48.5 feet
Fill to 2 feet.
No groundwater encountered.
Backfilled with soil cuttings and tamped.

*Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.
NOTE: The stratification lines presented herein represent the approximate boundary between earth types; the transitions may be gradual.

W1857-88-01 BORING LOGS.GPJ

**Figure A5,**
**Log of Boring E, Page 2 of 2**

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

PROJECT NO. W1857-88-01

## BORING F

ELEV. (MSL.) -- DATE COMPLETED **02/08/2024**

EQUIPMENT **HOLLOW STEM AUGER** BY: **ACS**

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | MATERIAL DESCRIPTION | PENETRATION RESISTANCE (BLOWS/FT*) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---|---|---|---|---|---|---|---|
| 0 | BULK 0-5' | | | | **ARTIFICIAL FILL** Silty Sand, loose to medium dense, moist, dark brown. | | | |
| 2 | | | | | **ALLUVIUM** Sand, poorly graded, loose, moist, light brown, medium- to coarse-grained. | | | |
| 4 | | | | | | | | |
| 6 | F@5' | | | | | 6 | | |
| 8 | F@7.5' | | | SP | - gray | 14 | 97.2 | 3.7 |
| 10 | F@10' | | | | - yellowish brown | 7 | | |
| 12 | F@12.5' | | | | - fine- to medium-grained | 16 | 94.1 | 4.1 |
| 14 | | | | | | | | |
| 16 | F@15' | | | | - medium dense, grayish brown | 11 | | |
| 18 | F@17.5' | | | | Sandy Silt, soft, moist, brown, fine-grained. | 8 | 86.7 | 30.5 |
| 20 | F@20' | | | ML | - firm | 10 | | |
| 22 | F@22.5' | | | | Silty Sand, medium dense, slightly moist, grayish brown, fine- to medium-grained. | 37 | 105.3 | 5.3 |
| 24 | | | | SM | | | | |
| 26 | F@25' | | | | Sandy Silt, soft, moist, brown, fine-grained. | 7 | | |
| 28 | F@27.5' | | | ML | - firm | 17 | 109.5 | 19.3 |

W1857-88-01 BORING LOGS.GPJ

**Figure A6,**
**Log of Boring F, Page 1 of 3**

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◥ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

PROJECT NO. W1857-88-01

## BORING F

ELEV. (MSL.) -- DATE COMPLETED **02/08/2024**

EQUIPMENT **HOLLOW STEM AUGER** BY: **ACS**

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | MATERIAL DESCRIPTION | PENETRATION RESISTANCE (BLOWS/FT*) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---|---|---|---|---|---|---|---|
| 30 | F@30' | | | SP | Sand, poorly graded, medium dense, slightly moist, light brown, fine-grained. | 23 | | |
| 32 | F@32.5' | | | SP | | 50 | 111.1 | 11.1 |
| 34 | | | | | | | | |
| 36 | F@35' | | | SM | Silty Sand, loose, slightly moist, light brown, fine-grained. | 7 | | |
| 38 | F@37.5' | | | SP | Sand, poorly graded, medium dense, slightly moist, yellowish brown, medium- to coarse-grained. | 35 | 103.4 | 2.2 |
| 40 | F@40' | | | ML | Sandy Silt, firm, moist, brown, fine-grained. | 16 | | |
| 42 | F@42.5' | | | SM | Silty Sand, dense, slighlty moist, gray, mottled reddish brown. | 63 | 103.1 | 8.5 |
| 44 | F@45' | | | SM | | 15 | | |
| 46 | | | | | | | | |
| 48 | | | | | | | | |
| 50 | F@50' | | ▼ | ML | Sandy Silt, firm, slightly moist, brown. | 9 | | |
| 52 | | | | | | | | |
| 54 | | | | | | | | |
| 56 | F@55' | | | SM | Silty Sand, dense, wet, brown, some fine gravel. | 35 | | |
| 58 | | | | | | | | |

W1857-88-01 BORING LOGS.GPJ

**Figure A6,**
**Log of Boring F, Page 2 of 3**

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◥ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

PROJECT NO. W1857-88-01

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | **BORING F**<br>ELEV. (MSL.) -- DATE COMPLETED **02/08/2024**<br>EQUIPMENT **HOLLOW STEM AUGER** BY: **ACS** | PENETRATION RESISTANCE (BLOWS/FT*) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---|---|---|---|---|---|---|---|
| | | | | | MATERIAL DESCRIPTION | | | |
| 60 | F@60' | | | GW | Gravel, dense, wet, brown to black, fine to coarse gravel, some medium- to coarse-grained sand. | 29 | | 11.5 |
| | | | | | Total depth of boring: 61 feet<br>Fill to 2 feet.<br>Groundwater encountered at 54 feet.<br>Backfilled with soil cuttings and tamped.<br><br>*Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.<br>NOTE: The stratification lines presented herein represent the approximate boundary between earth types; the transitions may be gradual. | | | |

W1857-88-01 BORING LOGS.GPJ

**Figure A6,**
**Log of Boring F, Page 3 of 3**

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. W1857-88-01

## BORING G

ELEV. (MSL.) -- DATE COMPLETED **02/09/2024**

EQUIPMENT **HOLLOW STEM AUGER** BY: **ACS**

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | MATERIAL DESCRIPTION | PENETRATION RESISTANCE (BLOWS/FT*) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | **ARTIFICIAL FILL**<br>Silty Sand, loose, moist, brown to dark brown, fine-grained. | | | |
| 2 | | | | SM | **ALLUVIUM**<br>Silty Sand, loose, moist, gray, fine-grained. | | | |
| 4 | | | | | | | | |
| 6 | G@5' | | | | Sandy Silt, soft, moist, brown, fine-grained. | 8 | | |
| 8 | G@7' | | | ML | | 9 | 98.1 | 23.4 |
| 10 | G@10' | | | | | 6 | 96.8 | 21.6 |

Total depth of boring: 10.5 feet
Fill to 2 feet.
No groundwater encountered.
Backfilled with soil cuttings and tamped.

*Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.
NOTE: The stratification lines presented herein represent the approximate boundary between earth types; the transitions may be gradual.

W1857-88-01 BORING LOGS.GPJ

**Figure A7,**
**Log of Boring G, Page 1 of 1**

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

PROJECT NO. W1857-88-01

## BORING H

ELEV. (MSL.) -- DATE COMPLETED **02/09/2024**

EQUIPMENT **HOLLOW STEM AUGER** BY: **ACS**

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | MATERIAL DESCRIPTION | PENETRATION RESISTANCE (BLOWS/FT*) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | **ARTIFICIAL FILL**<br>Silty Sand, loose, moist, dark brown, fine-grained. | | | |
| 2 | | | | | **ALLUVIUM**<br>Sand, poorly graded, loose, moist, brown, medium- to coarse-grained. | | | |
| 4 | | | | | | | | |
| 6 | H@5' | | | | | 16 | 101.4 | 2.8 |
| 8 | H@7' | | | | - slightly moist | 18 | 95.3 | 5.4 |
| 10 | H@10' | | | SP | | 13 | 99.8 | 5.5 |
| 12 | H@12' | | | | - medium dense | 19 | 100.4 | 5.2 |
| 14 | | | | | | | | |
| 16 | H@15' | | | | | 32 | 98.9 | 8.8 |
| 18 | | | | | | | | |
| 20 | H@20' | | | SM | Silty Sand, medium dense, slightly moist, brown, fine-grained. | 20 | 100.0 | 9.2 |

Total depth of boring: 20.5 feet
Fill to 2 feet.
No groundwater encountered.
Backfilled with soil cuttings and tamped.

*Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.
NOTE: The stratification lines presented herein represent the approximate boundary between earth types; the transitions may be gradual.

W1857-88-01 BORING LOGS.GPJ

**Figure A8,**
**Log of Boring H, Page 1 of 1**

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◥ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

PROJECT NO. W1857-88-01

## BORING I

ELEV. (MSL.) -- DATE COMPLETED **02/08/2024**

EQUIPMENT **HOLLOW STEM AUGER** BY: **ACS**

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | MATERIAL DESCRIPTION | PENETRATION RESISTANCE (BLOWS/FT*) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | **ARTIFICIAL FILL**<br>Sandy Silt, firm, moist, dark brown, fine-grained. | | | |
| 2 | | | | | **ALLUVIUM**<br>Sand, well-graded, loose, moist, brown. | | | |
| 4 | | | | SW | | | | |
| 6 | I@5' | | | | | 14 | | |
| 8 | I@7.5' | | | | Sandy Clay, soft, moist, dark brown, fine-grained. | 5 | | |
| 10 | I@10' | | | CL | - firm | 13 | 105.6 | 20.2 |
| 12 | I@12.5' | | | | - soft | 5 | | |
| 14 | | | | | | | | |
| 16 | I@15' | | | SM | Silty Sand, loose, moist, brown, fine-grained. | 16 | | |
| 18 | I@17.5' | | | CL | Silty Clay, soft, moist, dark brown. | 5 | | |
| 20 | I@20' | | | SM | Silty Sand, medium dense, slightly moist, grayish brown, fine-grained. | 15 | 89.4 | 32.6 |
| 22 | I@22.5' | | | | - loose | 7 | | |
| 24 | | | | | | | | |
| 26 | I@25' | | | ML | Silt, soft, moist, brown. | 9 | | |
| 28 | I@27.5' | | | SM | Silty Sand, medium dense, slightly moist, grayish brown, fine-grained. | 12 | | |

W1857-88-01 BORING LOGS.GPJ

**Figure A9,**
**Log of Boring I, Page 1 of 3**

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◥ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

PROJECT NO. W1857-88-01

## BORING I

ELEV. (MSL.) -- DATE COMPLETED **02/08/2024**

EQUIPMENT **HOLLOW STEM AUGER** BY: **ACS**

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | MATERIAL DESCRIPTION | PENETRATION RESISTANCE (BLOWS/FT*) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---|---|---|---|---|---|---|---|
| 30 | I@30' | | | SM | | 33 | 107.7 | 9.5 |
| 32 | I@32.5' | | | CL | Sandy Clay, very soft, moist, brown, fine-grained. | PUSH | | |
| 34 | | | | | | | | |
| 36 | I@35' | | | | | 11 | | |
| 38 | I@37.5' | | | SM | Silty Sand, medium dense, slightly moist, gray, fine-grained. | 24 | | |
| 40 | I@40' | | | | | 26 | 102.2 | 7.4 |
| 42 | I@42.5' | | | ML | Sandy Silt, firm, slighlty moist, gray, fine-grained. | 9 | | |
| 44 | | | | | | | | |
| 46 | I@45' | | | | | 16 | 77.6 | 37.9 |
| 48 | I@47.5' | | | CL | Sandy Clay, soft, moist, fine-grained, trace fine gravel. | 5 | | |
| 50 | I@50' | | | | - no recovery | 11 | | |
| 52 | I@52.5' | | ▼ | SM | - groundwater encountered at 53'11"<br>Silty Sand, dense, moist, brown, medium-grained, some fine gravel.<br>- groundwater encountered | 43 | | 6.4 |
| 54 | | | | | | | | |
| 56 | I@55' | | | | - medium dense, wet | 50 | 118.0 | 15.8 |
| 58 | I@57.5' | | | GP | Gravel, dense, wet, brown. | 40 | | 7.7 |

W1857-88-01 BORING LOGS.GPJ

**Figure A9,**
**Log of Boring I, Page 2 of 3**

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ▩ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

PROJECT NO. W1857-88-01

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | **BORING I**<br>ELEV. (MSL.) -- DATE COMPLETED **02/08/2024**<br>EQUIPMENT **HOLLOW STEM AUGER** BY: **ACS** | PENETRATION RESISTANCE (BLOWS/FT*) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---|---|---|---|---|---|---|---|
| | | | | | MATERIAL DESCRIPTION | | | |
| 60 | I@60' | | | SC | Clayey Sand, wet, brown, medium-grained, some fine gravel, trace silt. | 50 (5") | 128.9 | 11.1 |
| 62 | I@62.5' | | | CL | Clay, firm, wet, brown, trace medium-grained sand. | 14 | | |
| | | | | | Total depth of boring: 63.5 feet<br>Fill to 2 feet.<br>Groundwater encountered at 53 feet 11 inches.<br>Backfilled with soil cuttings and tamped.<br><br>*Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.<br>NOTE: The stratification lines presented herein represent the approximate boundary between earth types; the transitions may be gradual. | | | |

W1857-88-01 BORING LOGS.GPJ

**Figure A9,**
**Log of Boring I, Page 3 of 3**

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

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GEOCON

PROJECT NO. W1857-88-01

## BORING J

ELEV. (MSL.) -- DATE COMPLETED **02/13/2024**

EQUIPMENT **HAND AUGER** BY: **ACS**

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | MATERIAL DESCRIPTION | PENETRATION RESISTANCE (BLOWS/FT*) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | **ARTIFICIAL FILL**<br>Silty Sand, loose, moist, brown, fine- to medium-grained. | | | |
| 2 | J@3' | | | | | | 119.4 | 8.6 |
| 4 | | | | SM | **ALLUVIUM**<br>Silty Sand, medium dense, moist, some fine-grained. | | | |
| 6 | J@5' | | | SP | Sand, poorly graded, loose, slightly moist, dark brown, medium-grained. | | 99.7 | 4.3 |
| 8 | J@7' | | | | | | 100.6 | 6.9 |
| 10 | J@10' | | | CL | Sandy Clay, firm, slightly moist, brown, fine-grained. | | 99.2 | 22.2 |
| 12 | | | | | | | | |
| 14 | | | | | | | | |
| 16 | J@15' | | | | | | 98.5 | 20.0 |
| | | | | | Total depth of boring: 16 feet 4 inches<br>Fill to 3.5 feet.<br>No groundwater encountered.<br>Backfilled with soil cuttings and tamped.<br>Asphalt patched.<br><br>*Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.<br>NOTE: The stratification lines presented herein represent the approximate boundary between earth types; the transitions may be gradual. | | | |

W1857-88-01 BORING LOGS.GPJ

**Figure A10,**
**Log of Boring J, Page 1 of 1**

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

PROJECT NO. W1857-88-01

## BORING K

ELEV. (MSL.) -- DATE COMPLETED **02/12/2024**

EQUIPMENT **HAND AUGER** BY: **ACS**

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | MATERIAL DESCRIPTION | PENETRATION RESISTANCE (BLOWS/FT*) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | **ARTIFICIAL FILL**<br>Silty Sand, loose, moist, brown, some coarse gravel. | | | |
| 2 | K@3' | | | | | | | |
| 4 | | | | SM | **ALLUVIUM**<br>Silty Sand, loose, moist, brown, fine- to medium-grained. | | | |
| 6 | K@5' | | | SP | Sand, poorly graded, loose, slightly moist, light brown, medium- to coarse-grained. | | 103.6 | 4.2 |
| 8 | K@7' | | | | - coarse-grained | | 105.6 | 7.7 |
| 10 | K@10' | | | CL | Sandy Clay, firm, slightly moist, brown, fine-grained. | | 96.2 | 26.2 |
| 12 | | | | | | | | |
| 14 | | | | | | | | |
| 16 | K@15' | | | | | | 102.2 | 24.0 |
| | | | | | Total depth of boring: 16.5 feet<br>Fill to 3.5 feet.<br>No groundwater encountered.<br>Backfilled with soil cuttings and tamped.<br>Asphalt patched.<br><br>*Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.<br>NOTE: The stratification lines presented herein represent the approximate boundary between earth types; the transitions may be gradual. | | | |

W1857-88-01 BORING LOGS.GPJ

**Figure A11,**
**Log of Boring K, Page 1 of 1**

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◪ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

PROJECT NO. W1857-88-01

## BORING L

ELEV. (MSL.) -- DATE COMPLETED **02/09/2024**

EQUIPMENT **HOLLOW STEM AUGER** BY: **ACS**

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | MATERIAL DESCRIPTION | PENETRATION RESISTANCE (BLOWS/FT*) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---|---|---|---|---|---|---|---|
| 0 | | | | | **ARTIFICIAL FILL**<br>Silty Sand, loose, moist, dark brown, fine-grained. | | | |
| 2 | | | | SP | **ALLUVIUM**<br>Sand, poorly graded, loose, moist, gray, fine-grained. | | | |
| 4 | | | | | | | | |
| 6 | L@5' | | | ML | Sandy Silt, soft, moist, brown, fine-grained. | 12 | | |
| 8 | L@7' | | | SM | Silty Sand, very loose, moist, grayish brown, fine-grained. | 5 | 78.0 | 30.7 |
| 10 | L@10' | | | | | 22 | 95.6 | 3.6 |

Total depth of boring: 10.5 feet
Fill to 2 feet.
No groundwater encountered.
Percolation testing performed.
Backfilled with soil cuttings and tamped.

*Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.
NOTE: The stratification lines presented herein represent the approximate boundary between earth types; the transitions may be gradual.

W1857-88-01 BORING LOGS.GPJ

**Figure A12,**
**Log of Boring L, Page 1 of 1**

SAMPLE SYMBOLS

- ☐ ... SAMPLING UNSUCCESSFUL
- ◧ ... STANDARD PENETRATION TEST
- ■ ... DRIVE SAMPLE (UNDISTURBED)
- ⊠ ... DISTURBED OR BAG SAMPLE
- ◹ ... CHUNK SAMPLE
- ▼ ... WATER TABLE OR SEEPAGE

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

PROJECT NO. W1857-88-01

| DEPTH IN FEET | SAMPLE NO. | LITHOLOGY | GROUNDWATER | SOIL CLASS (USCS) | **BORING M**<br>ELEV. (MSL.) -- DATE COMPLETED **02/09/2024**<br>EQUIPMENT **HAND AUGER** BY: **ACS** | PENETRATION RESISTANCE (BLOWS/FT*) | DRY DENSITY (P.C.F.) | MOISTURE CONTENT (%) |
|---|---|---|---|---|---|---|---|---|
| | | | | | MATERIAL DESCRIPTION | | | |
| 0 | BULK 0-5' | | | | **ARTIFICIAL FILL**<br>Silty Sand, loose, moist, dark brown. | | | |
| 2 | | | | SM | **ALLUVIUM**<br>Silty Sand, loose, moist, grayish brown. | | | |
| 4 | | | | | | | | |
| | | | | | Total depth of boring: 5 feet<br>Fill to 2 feet.<br>No groundwater encountered.<br>Percolation testing performed.<br>Backfilled with soil cuttings and tamped.<br><br>*Penetration resistance for 140-pound hammer falling 30 inches by auto-hammer.<br>NOTE: The stratification lines presented herein represent the approximate boundary between earth types; the transitions may be gradual. | | | |

W1857-88-01 BORING LOGS.GPJ

**Figure A13,**
**Log of Boring M, Page 1 of 1**

SAMPLE SYMBOLS

☐ ... SAMPLING UNSUCCESSFUL ◧ ... STANDARD PENETRATION TEST ■ ... DRIVE SAMPLE (UNDISTURBED)

⊠ ... DISTURBED OR BAG SAMPLE ◥ ... CHUNK SAMPLE ▼ ... WATER TABLE OR SEEPAGE

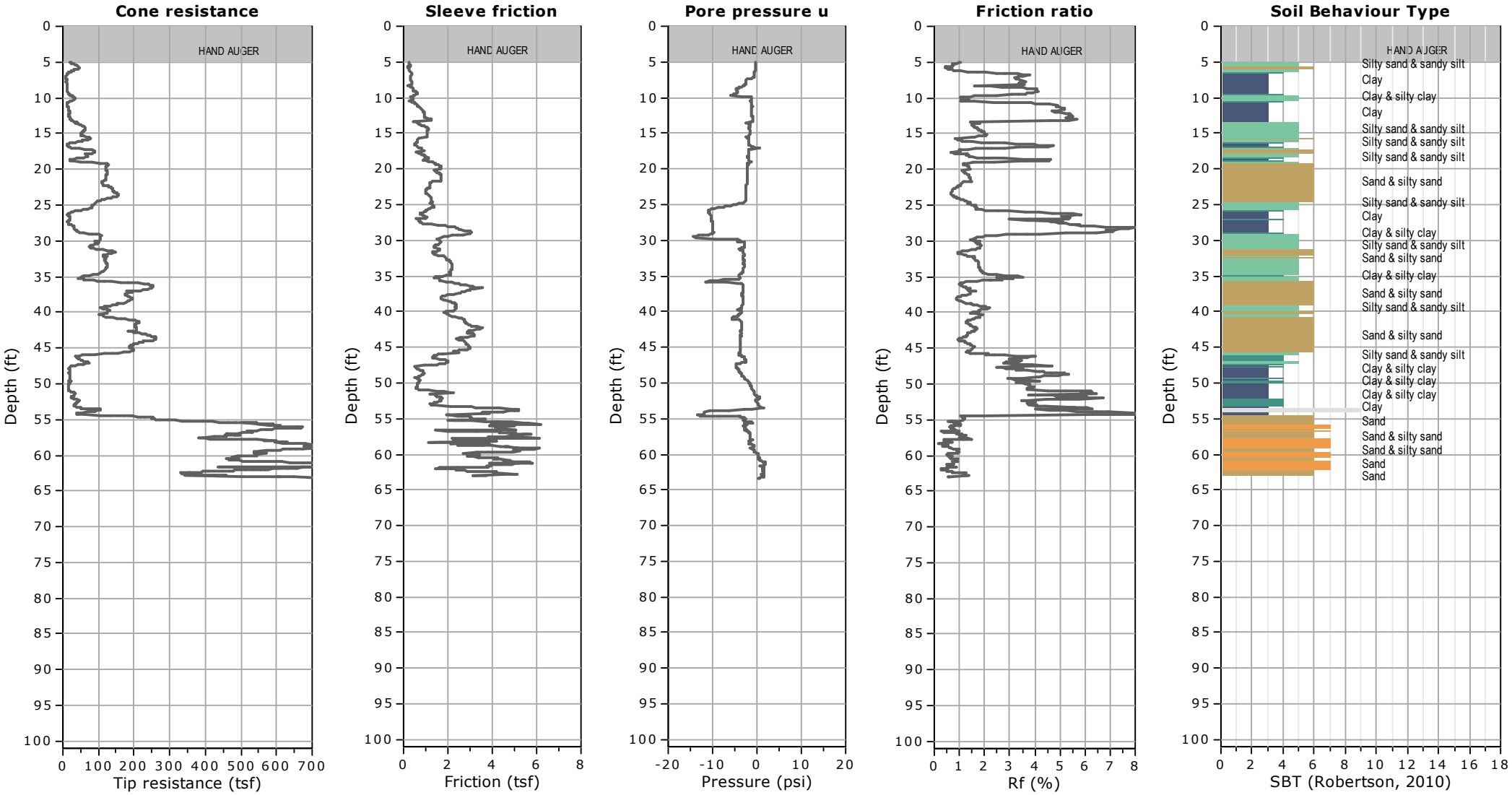
NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

GEOCON

**Kehoe Testing and Engineering**
714-901-7270
steve@kehoetesting.com
www.kehoetesting.com

**Project:** **Geocon West / Juvenille Hall - Youth Transition Center**
**Location:** **331 The City Drive S, Orange, CA**

**CPT-1**
Total depth: 63.40 ft, Date: 2/12/2024



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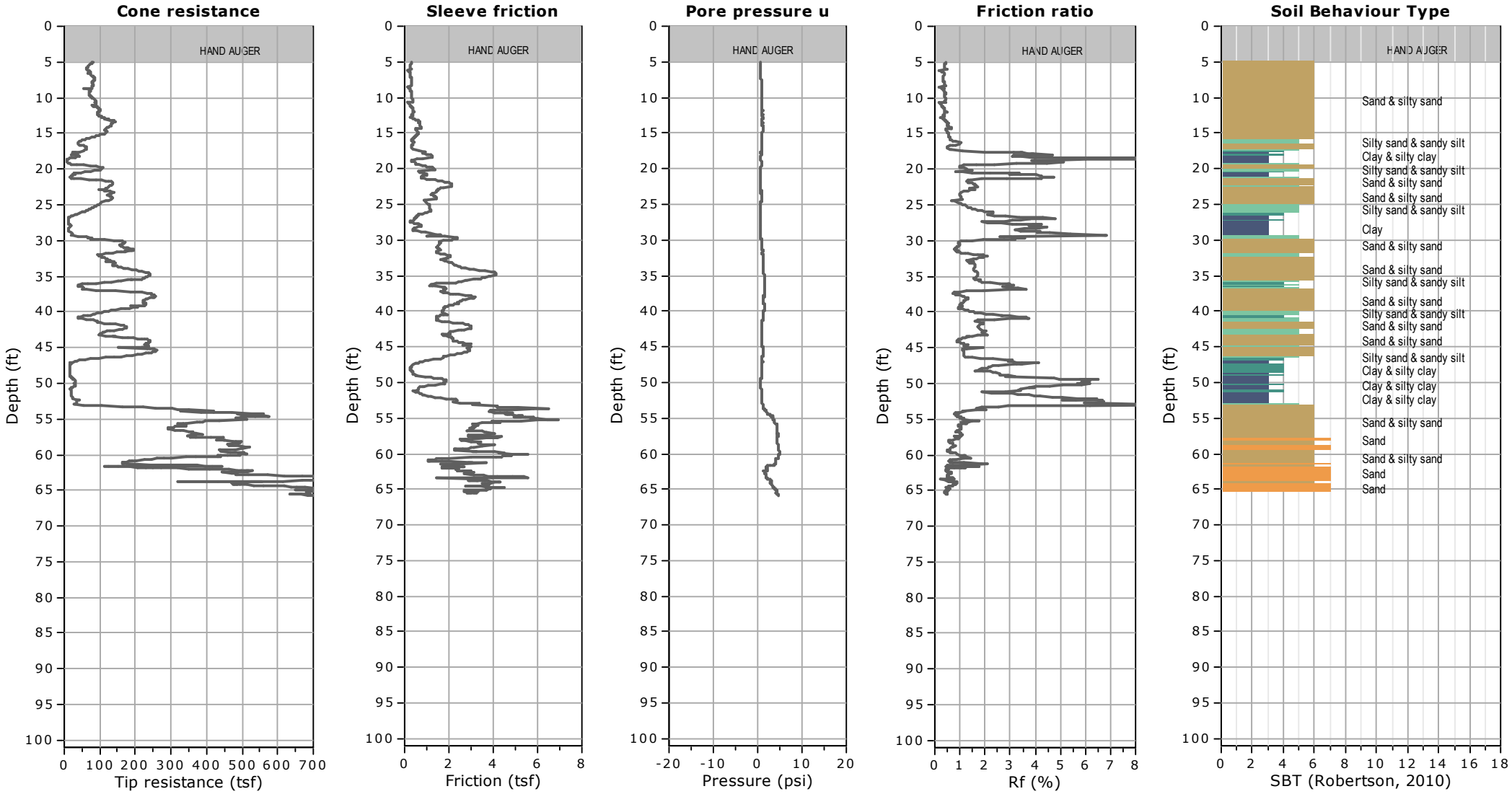
**Project:** **Geocon West / Juvenille Hall - Youth Transition Center**
**Location:** **331 The City Drive S, Orange, CA**

**CPT-2**
Total depth: 65.96 ft, Date: 2/12/2024



**Kehoe Testing and Engineering**
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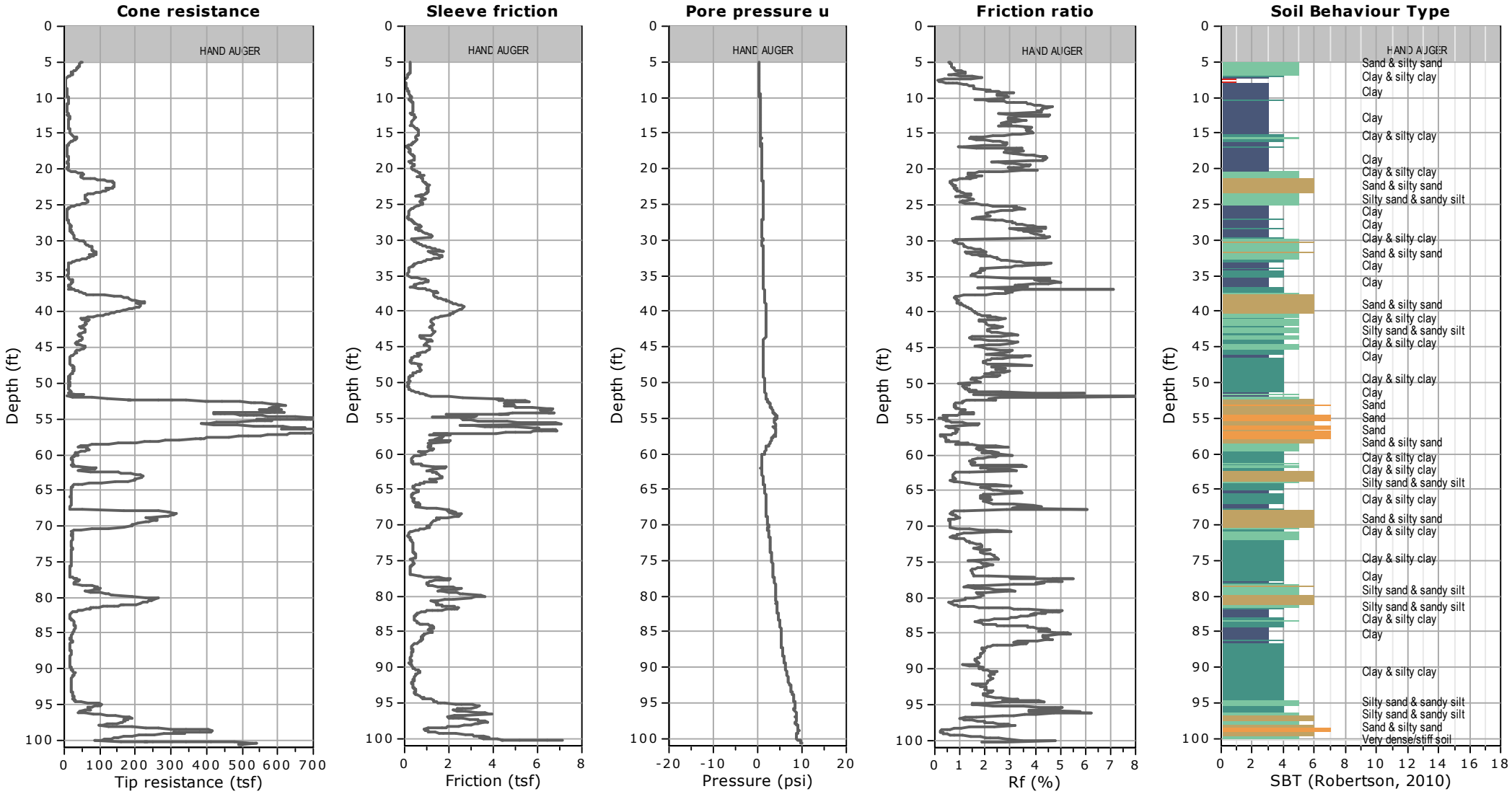
www.kehoetesting.com

**Project:** **Geocon West / Juvenille Hall - Youth Transition Center**
**Location:** **331 The City Drive S, Orange, CA**

**CPT-3**
Total depth: 100.60 ft, Date: 2/12/2024

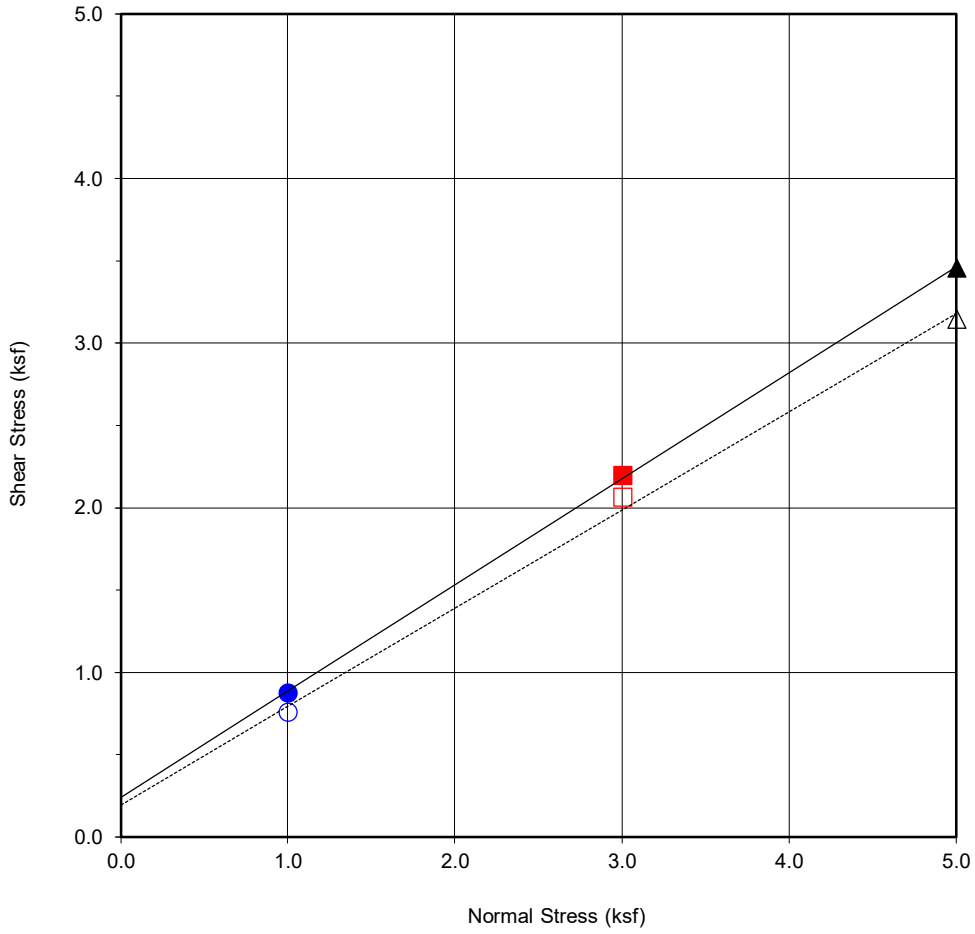


# APPENDIX B

# APPENDIX B

# LABORATORY TESTING

We performed laboratory tests in accordance with generally accepted test methods of the American Society for Testing and Materials (ASTM) or other suggested procedures. We tested selected soil samples for direct shear strength, consolidation and expansion characteristics, corrosivity, and maximum dry density and optimum moisture content relationship. The in-place dry density and moisture content of the samples tested are presented on the boring logs, Appendix A.




| **Boring No.** | **B** |
|---|---|
| **Sample No.** | **B@3'** |
| **Depth (ft)** | **3'** |
| Sample Type: | Ring |

| Soil Identification: | | |
|---|---|---|
| Silty Sand (SM) | | |
| **Strength Parameters** | | |
| | C (psf) | $\phi$ ($^{o}$) |
| Peak | 241 | 33 |
| Ultimate | 197 | 31 |

| Normal Stress (kip/ft²) | 1 | 3 | 5 |
|---|---|---|---|
| Peak Shear Stress (kip/ft²) | ● 0.88 | ■ 2.20 | ▲ 3.46 |
| Shear Stress @ End of Test (ksf) | ○ 0.76 | □ 2.06 | △ 3.14 |
| Deformation Rate (in./min.) | 0.05 | 0.05 | 0.05 |
| | | | |
| Initial Sample Height (in.) | 1.0 | 1.0 | 1.0 |
| Ring Inside Diameter (in.) | 2.375 | 2.375 | 2.375 |
| Initial Moisture Content (%) | 13.7 | 14.6 | 13.2 |
| Initial Dry Density (pcf) | 97.5 | 97.1 | 101.4 |
| Initial Degree of Saturation (%) | 50.7 | 53.3 | 53.8 |
| Soil Height Before Shearing (in.) | 1.2 | 1.2 | 1.2 |
| Final Moisture Content (%) | 21.5 | 21.2 | 19.7 |

GEOCON

**DIRECT SHEAR TEST RESULTS**

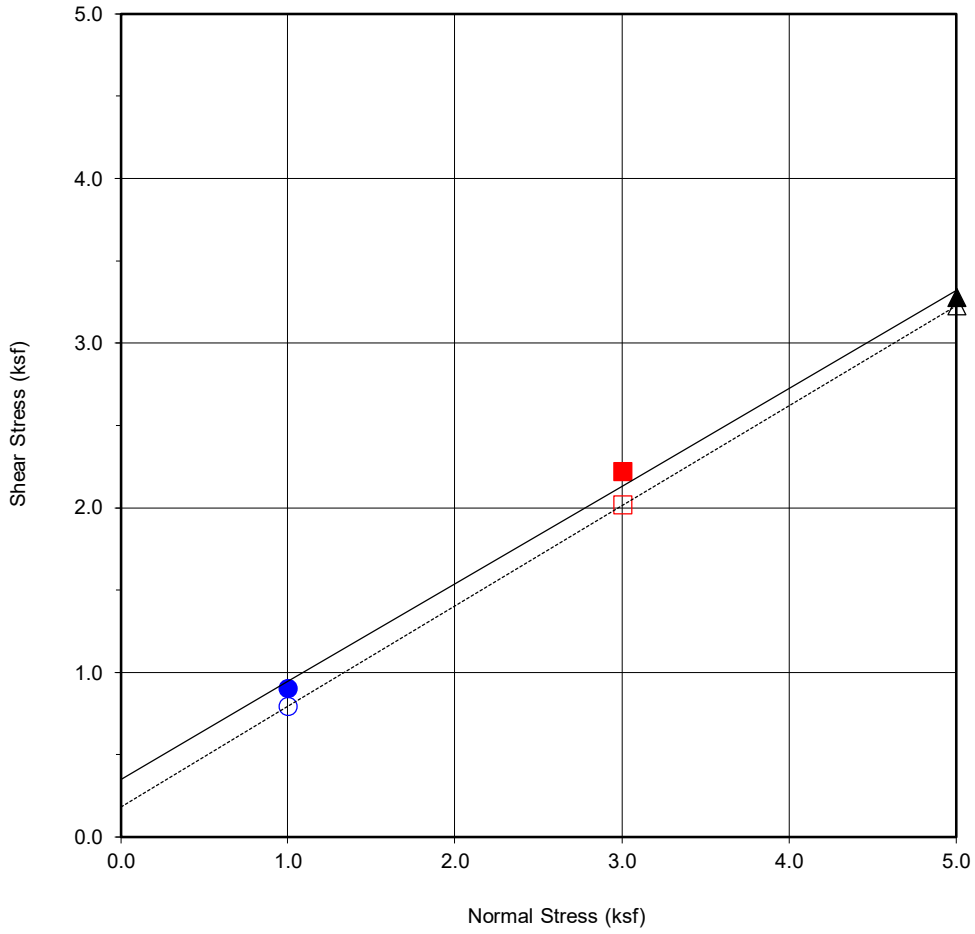
Consolidated Drained ASTM D-3080

Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B1




| | |
|---|---|
| **Boring No.** | **G** |
| **Sample No.** | **G@5'** |
| **Depth (ft)** | **5'** |
| Sample Type: | Ring |

| Soil Identification: | | |
|---|---|---|
| Sandy Silt (ML) | | |
| **Strength Parameters** | | |
| | C (psf) | $\phi$ ($^{o}$) |
| Peak | 350 | 31 |
| Ultimate | 185 | 31 |

| Normal Stress (kip/ft²) | 1 | 3 | 5 |
|---|---|---|---|
| Peak Shear Stress (kip/ft²) | ● 0.90 | ■ 2.22 | ▲ 3.28 |
| Shear Stress @ End of Test (ksf) | ○ 0.79 | □ 2.02 | △ 3.23 |
| Deformation Rate (in./min.) | 0.05 | 0.05 | 0.05 |
| | | | |
| Initial Sample Height (in.) | 1.0 | 1.0 | 1.0 |
| Ring Inside Diameter (in.) | 2.375 | 2.375 | 2.375 |
| Initial Moisture Content (%) | 36.2 | 46.1 | 42.5 |
| Initial Dry Density (pcf) | 88.6 | 84.3 | 86.7 |
| Initial Degree of Saturation (%) | 108.2 | 124.5 | 121.6 |
| Soil Height Before Shearing (in.) | 1.2 | 1.2 | 1.2 |
| Final Moisture Content (%) | 32.6 | 33.0 | 32.7 |

GEOCON

**DIRECT SHEAR TEST RESULTS**

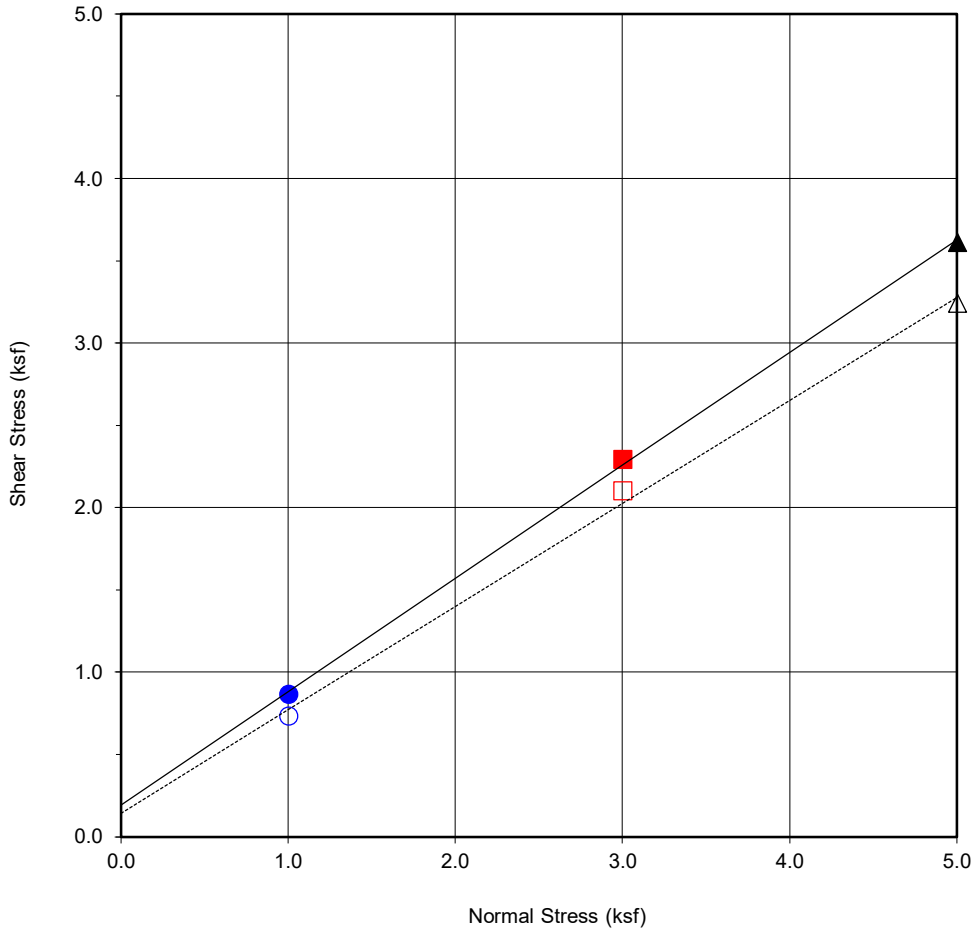
Consolidated Drained ASTM D-3080

Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B2




| **Boring No.** | **K** |
|---|---|
| **Sample No.** | **K@3'** |
| **Depth (ft)** | **3'** |
| Sample Type: | Ring |

| Soil Identification: | | |
|---|---|---|
| Silty Sand (SM) | | |
| **Strength Parameters** | | |
| | C (psf) | $\phi$ ($^{o}$) |
| Peak | 195 | 34 |
| Ultimate | 143 | 32 |

| Normal Stress (kip/ft²) | 1 | 3 | 5 |
|---|---|---|---|
| Peak Shear Stress (kip/ft²) | ● 0.86 | ■ 2.29 | ▲ 3.61 |
| Shear Stress @ End of Test (ksf) | ○ 0.73 | □ 2.10 | △ 3.24 |
| Deformation Rate (in./min.) | 0.05 | 0.05 | 0.05 |
| | | | |
| Initial Sample Height (in.) | 1.0 | 1.0 | 1.0 |
| Ring Inside Diameter (in.) | 2.375 | 2.375 | 2.375 |
| Initial Moisture Content (%) | 20.6 | 13.7 | 17.8 |
| Initial Dry Density (pcf) | 85.5 | 91.7 | 87.4 |
| Initial Degree of Saturation (%) | 57.4 | 44.1 | 51.7 |
| Soil Height Before Shearing (in.) | 1.2 | 1.2 | 1.2 |
| Final Moisture Content (%) | 28.2 | 25.1 | 26.5 |

GEOCON

**DIRECT SHEAR TEST RESULTS**

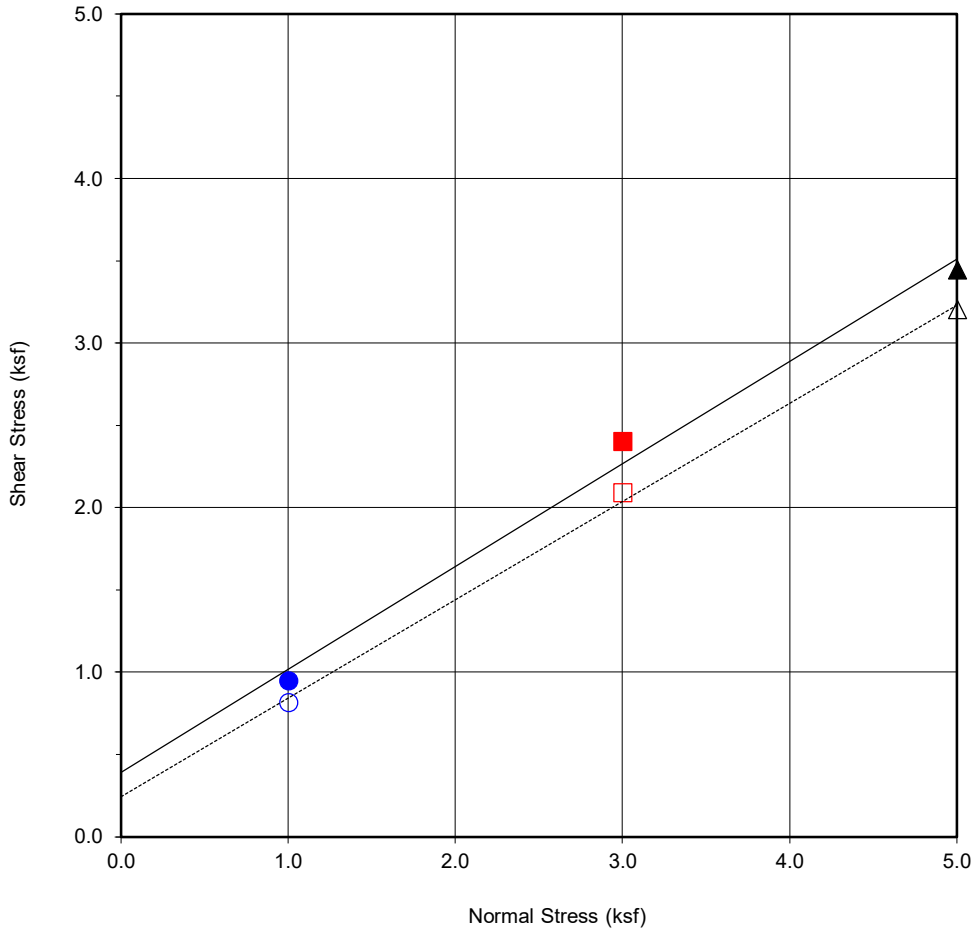
Consolidated Drained ASTM D-3080

Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B3




| **Boring No.** | **L** |
|---|---|
| **Sample No.** | **L@5'** |
| **Depth (ft)** | **5'** |
| Sample Type: | Ring |

| Soil Identification: | | |
|---|---|---|
| Sandy Silt (ML) | | |
| **Strength Parameters** | | |
| | C (psf) | $\phi$ ($^{o}$) |
| Peak | 392 | 32 |
| Ultimate | 245 | 31 |

| Normal Stress (kip/ft²) | 1 | 3 | 5 |
|---|---|---|---|
| Peak Shear Stress (kip/ft²) | ● 0.95 | ■ 2.40 | ▲ 3.44 |
| Shear Stress @ End of Test (ksf) | ○ 0.82 | □ 2.09 | △ 3.20 |
| Deformation Rate (in./min.) | 0.05 | 0.05 | 0.05 |
| | | | |
| Initial Sample Height (in.) | 1.0 | 1.0 | 1.0 |
| Ring Inside Diameter (in.) | 2.375 | 2.375 | 2.375 |
| Initial Moisture Content (%) | 15.4 | 14.9 | 15.6 |
| Initial Dry Density (pcf) | 85.6 | 86.9 | 88.2 |
| Initial Degree of Saturation (%) | 43.0 | 42.9 | 46.2 |
| Soil Height Before Shearing (in.) | 1.2 | 1.2 | 1.2 |
| Final Moisture Content (%) | 29.9 | 29.4 | 29.0 |

GEOCON

**DIRECT SHEAR TEST RESULTS**

Consolidated Drained ASTM D-3080

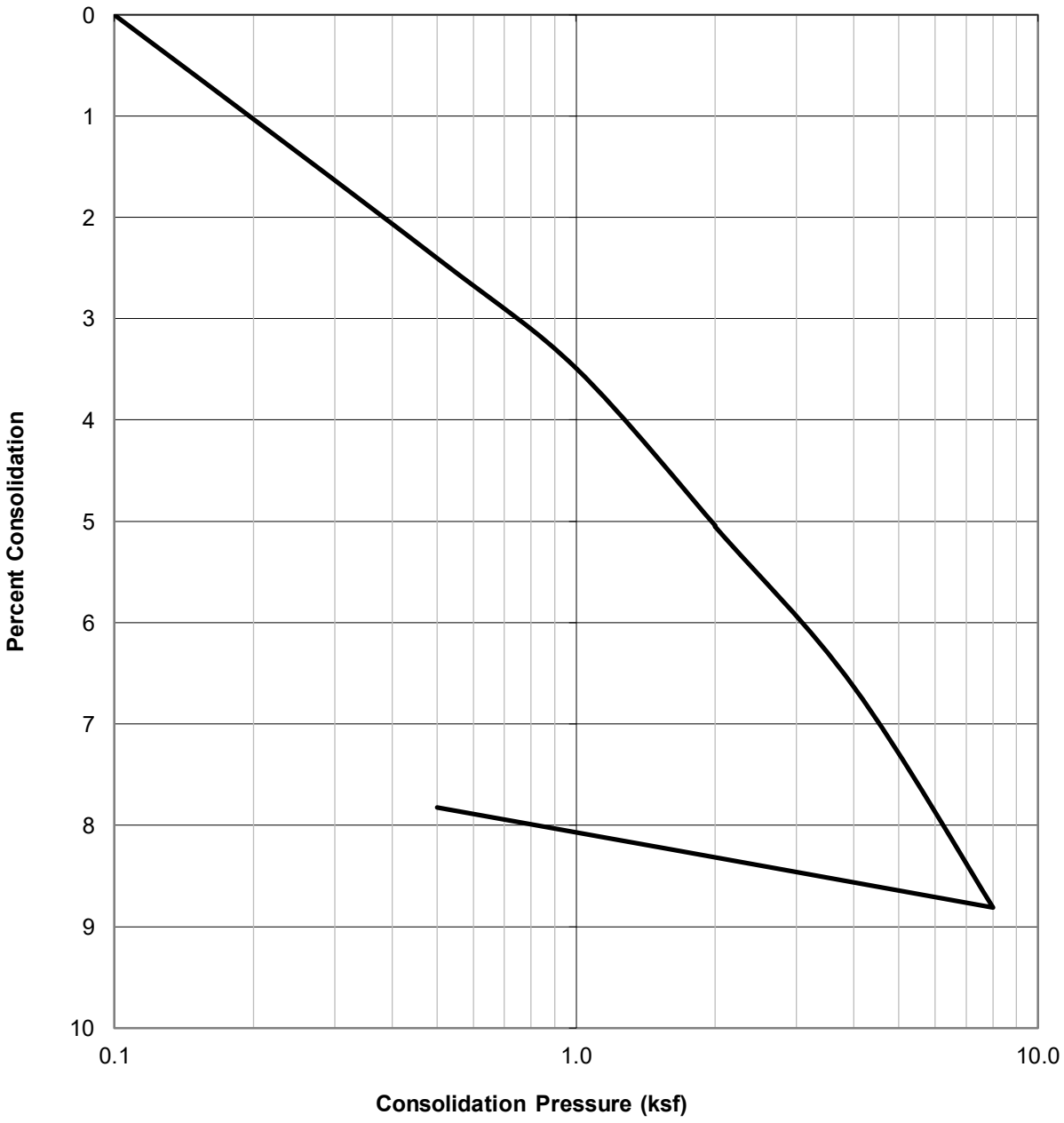
Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B4

WATER ADDED AT 2.0 KSF




| SAMPLE ID. | SOIL TYPE | DRY DENSITY (PCF) | INITIAL MOISTURE (%) | FINAL MOISTURE (%) |
|---|---|---|---|---|
| A@7 | Sandy Clay (CL) | 101.4 | 24.8 | 21.4 |

GEOCON

**CONSOLIDATION TEST RESULTS**

ASTM D-2435

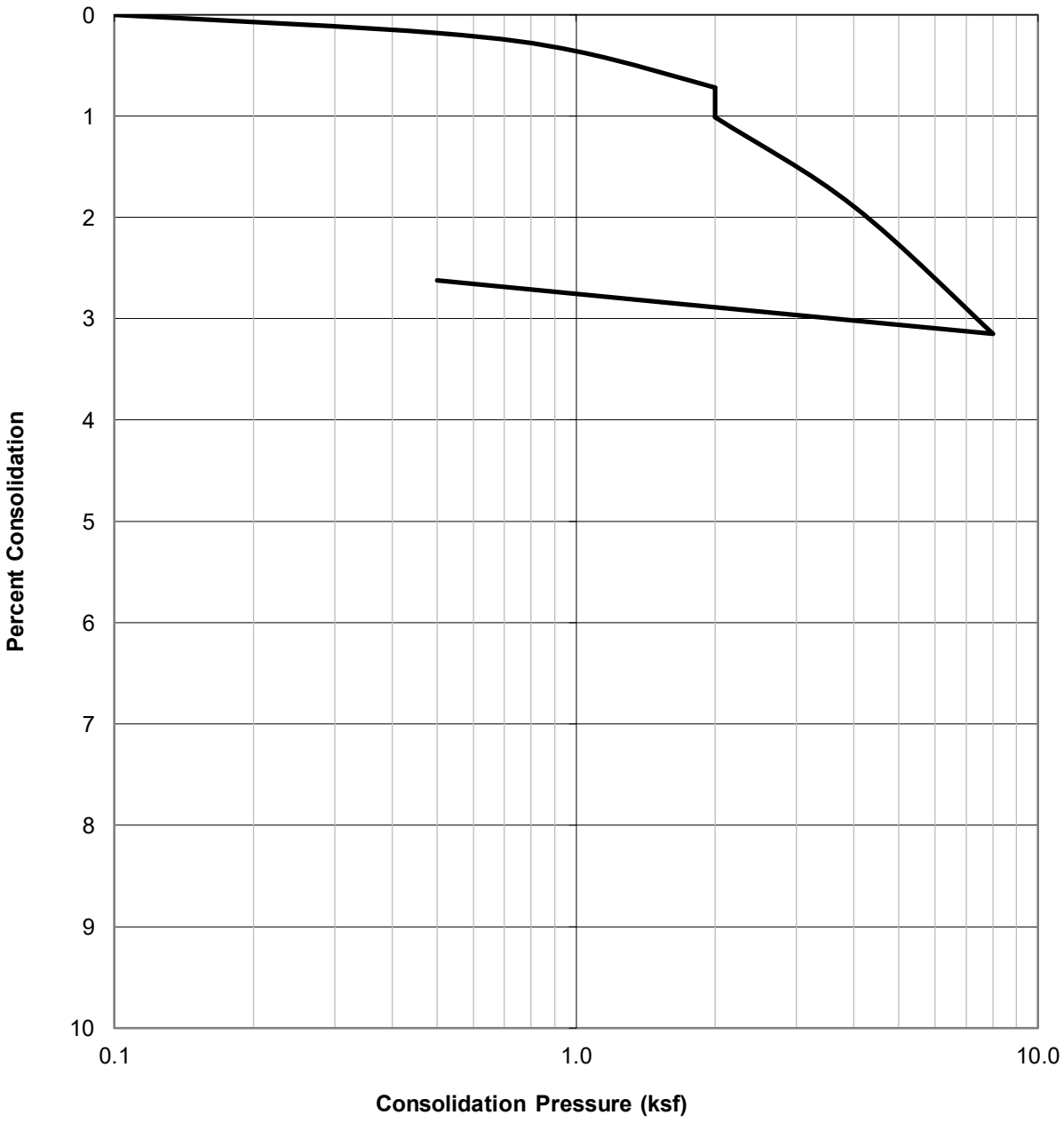
Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B5

WATER ADDED AT 2.0 KSF




| SAMPLE ID. | SOIL TYPE | DRY DENSITY (PCF) | INITIAL MOISTURE (%) | FINAL MOISTURE (%) |
|---|---|---|---|---|
| B@3 | Silty Sand (SM) | 97.8 | 10.4 | 21.7 |

GEOCON

**CONSOLIDATION TEST RESULTS**

ASTM D-2435

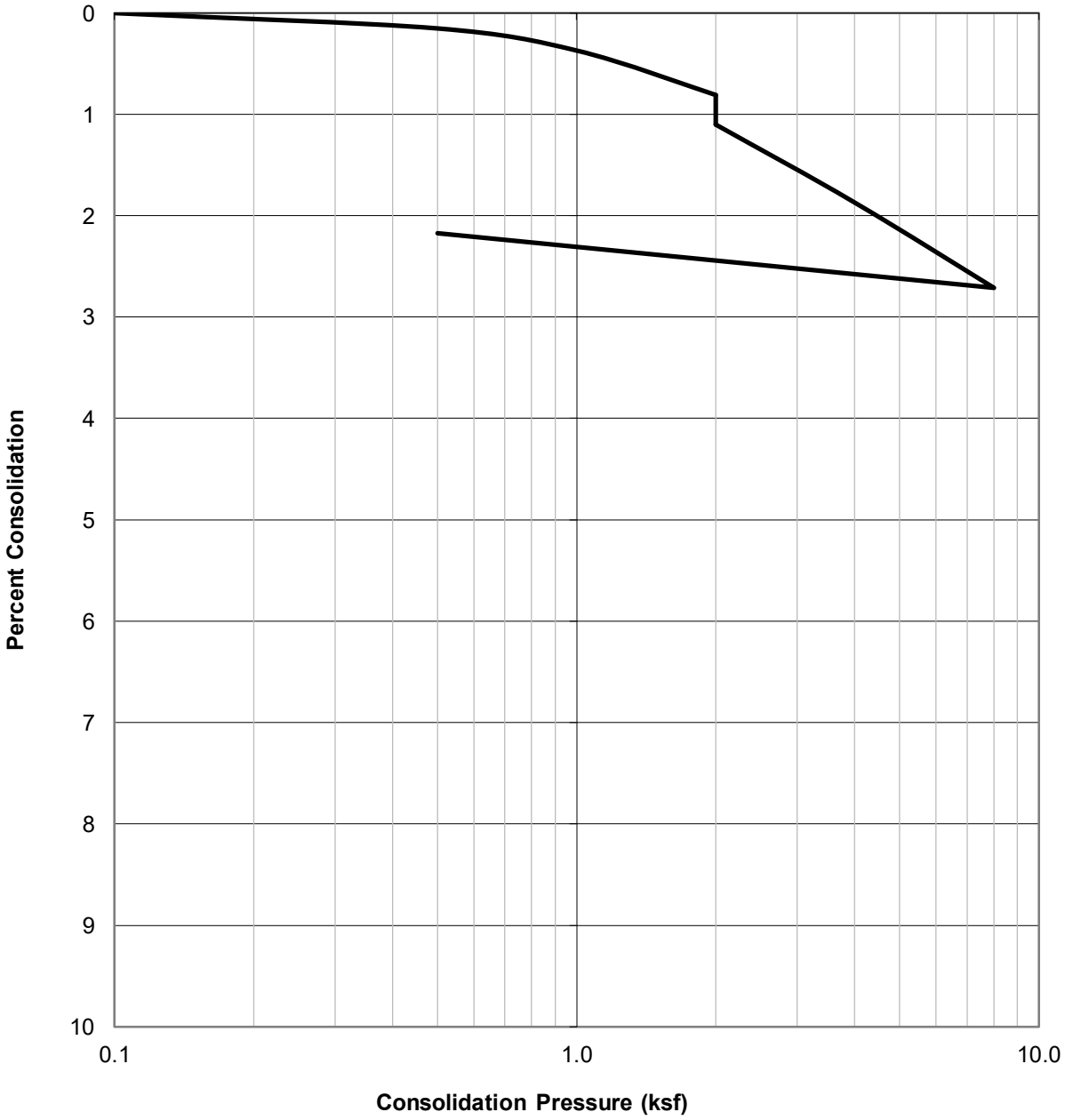
Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B6

WATER ADDED AT 2.0 KSF




| SAMPLE ID. | SOIL TYPE | DRY DENSITY (PCF) | INITIAL MOISTURE (%) | FINAL MOISTURE (%) |
|---|---|---|---|---|
| F@7.5 | Sand (SP) | 92.6 | 5.5 | 28.1 |

GEOCON

**CONSOLIDATION TEST RESULTS**

ASTM D-2435

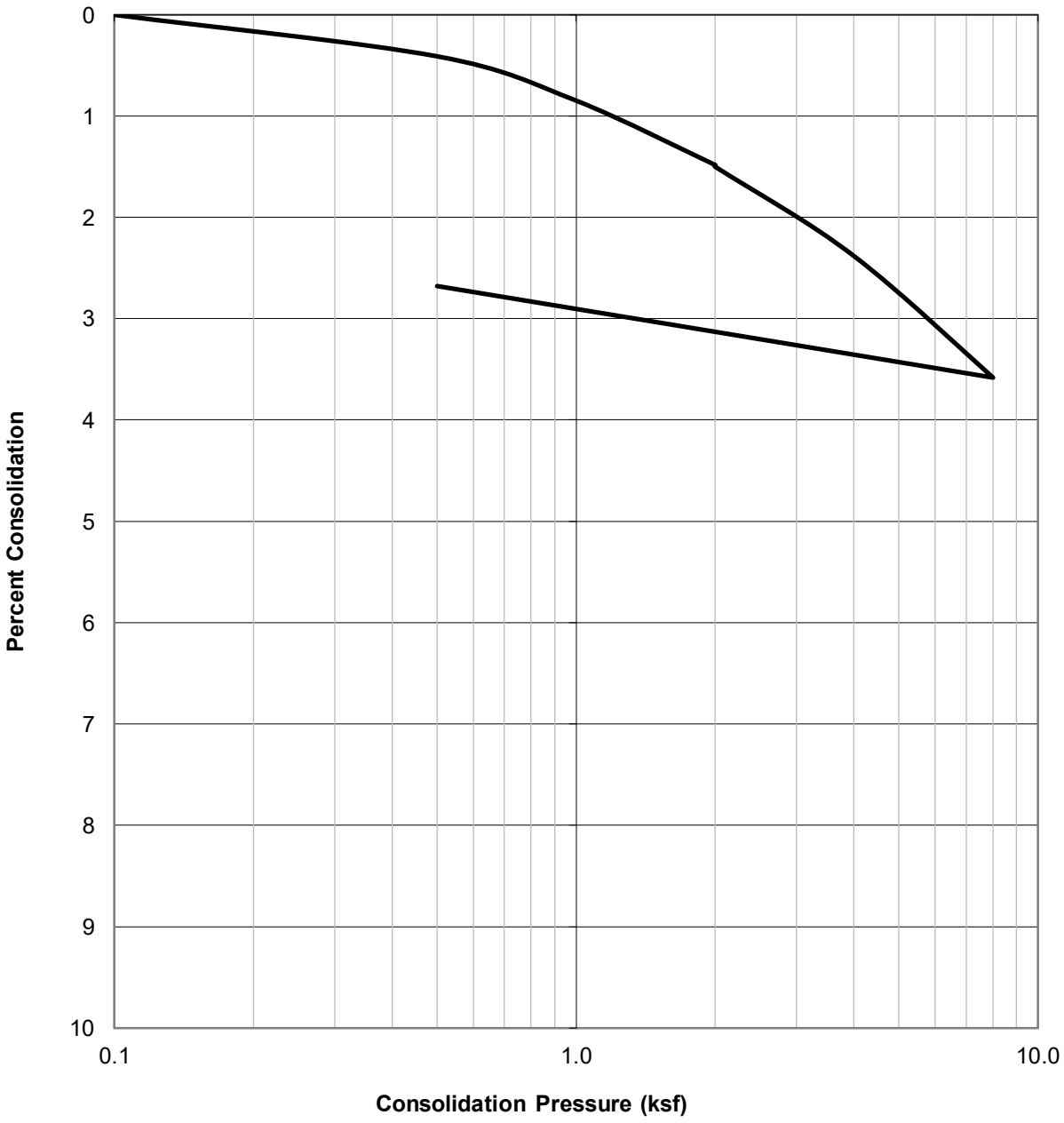
Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B7

WATER ADDED AT 2.0 KSF




| SAMPLE ID. | SOIL TYPE | DRY DENSITY (PCF) | INITIAL MOISTURE (%) | FINAL MOISTURE (%) |
|---|---|---|---|---|
| G@5 | Sandy Silt (ML) | 95.1 | 29.9 | 29.9 |

GEOCON

**CONSOLIDATION TEST RESULTS**

ASTM D-2435

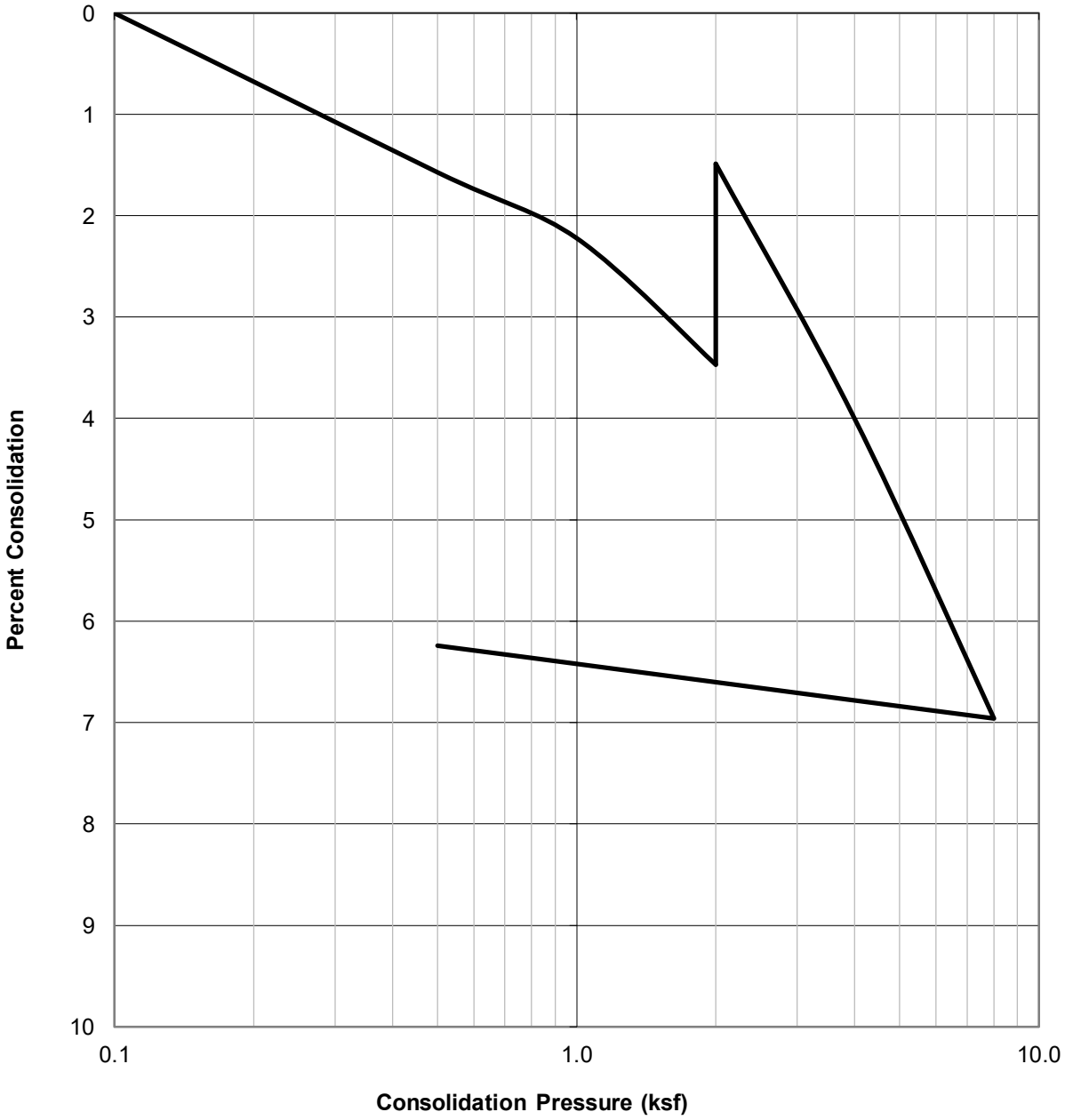
Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B8

WATER ADDED AT 2.0 KSF




| SAMPLE ID. | SOIL TYPE | DRY DENSITY (PCF) | INITIAL MOISTURE (%) | FINAL MOISTURE (%) |
|---|---|---|---|---|
| G@7 | Sandy Silt (ML) | 102.7 | 23.6 | 19.8 |

GEOCON

**CONSOLIDATION TEST RESULTS**

ASTM D-2435

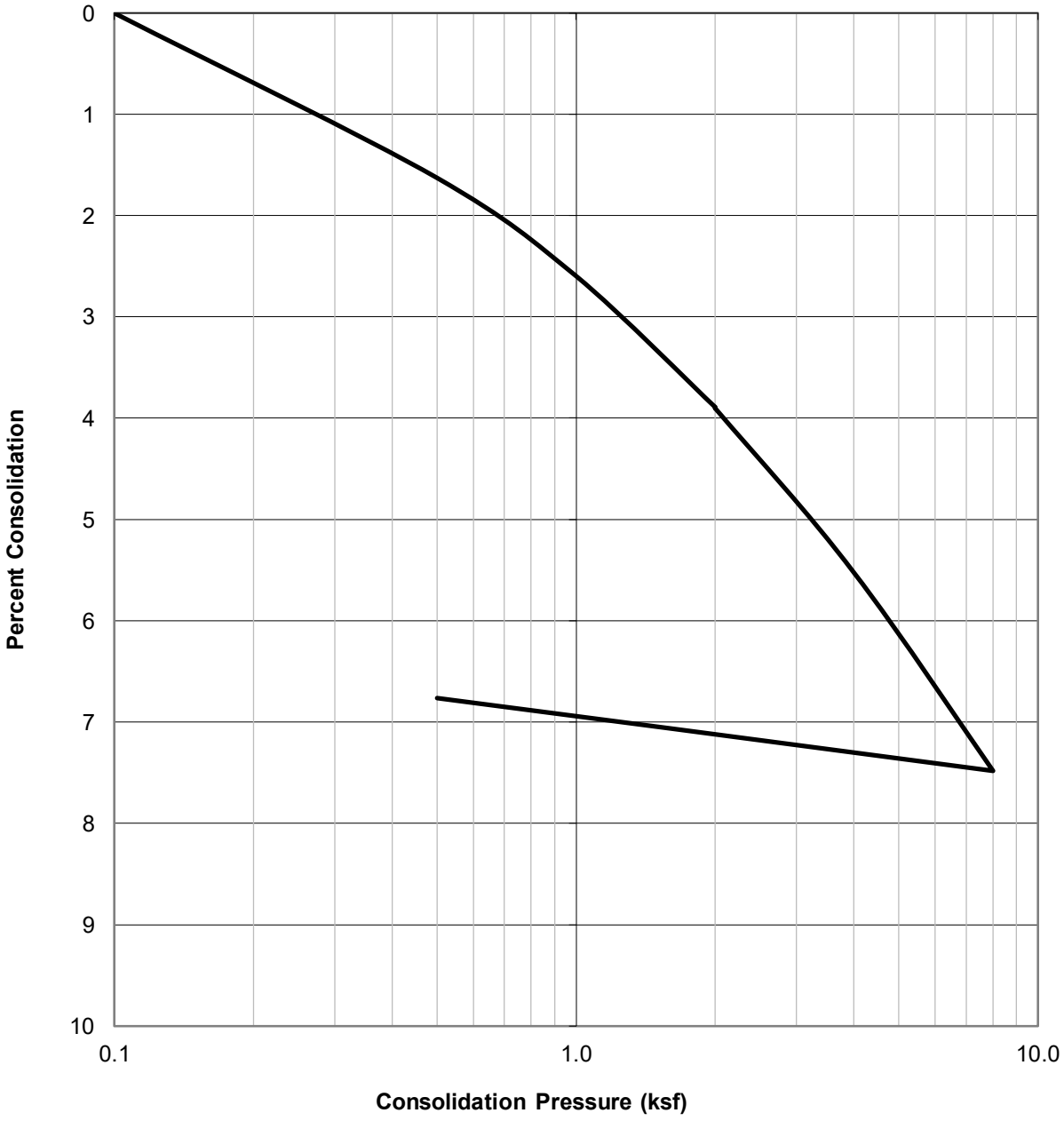
Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B9

WATER ADDED AT 2.0 KSF




| SAMPLE ID. | SOIL TYPE | DRY DENSITY (PCF) | INITIAL MOISTURE (%) | FINAL MOISTURE (%) |
|---|---|---|---|---|
| G@10 | Sandy Silt (ML) | 105.5 | 22.4 | 19.6 |

GEOCON

**CONSOLIDATION TEST RESULTS**

ASTM D-2435

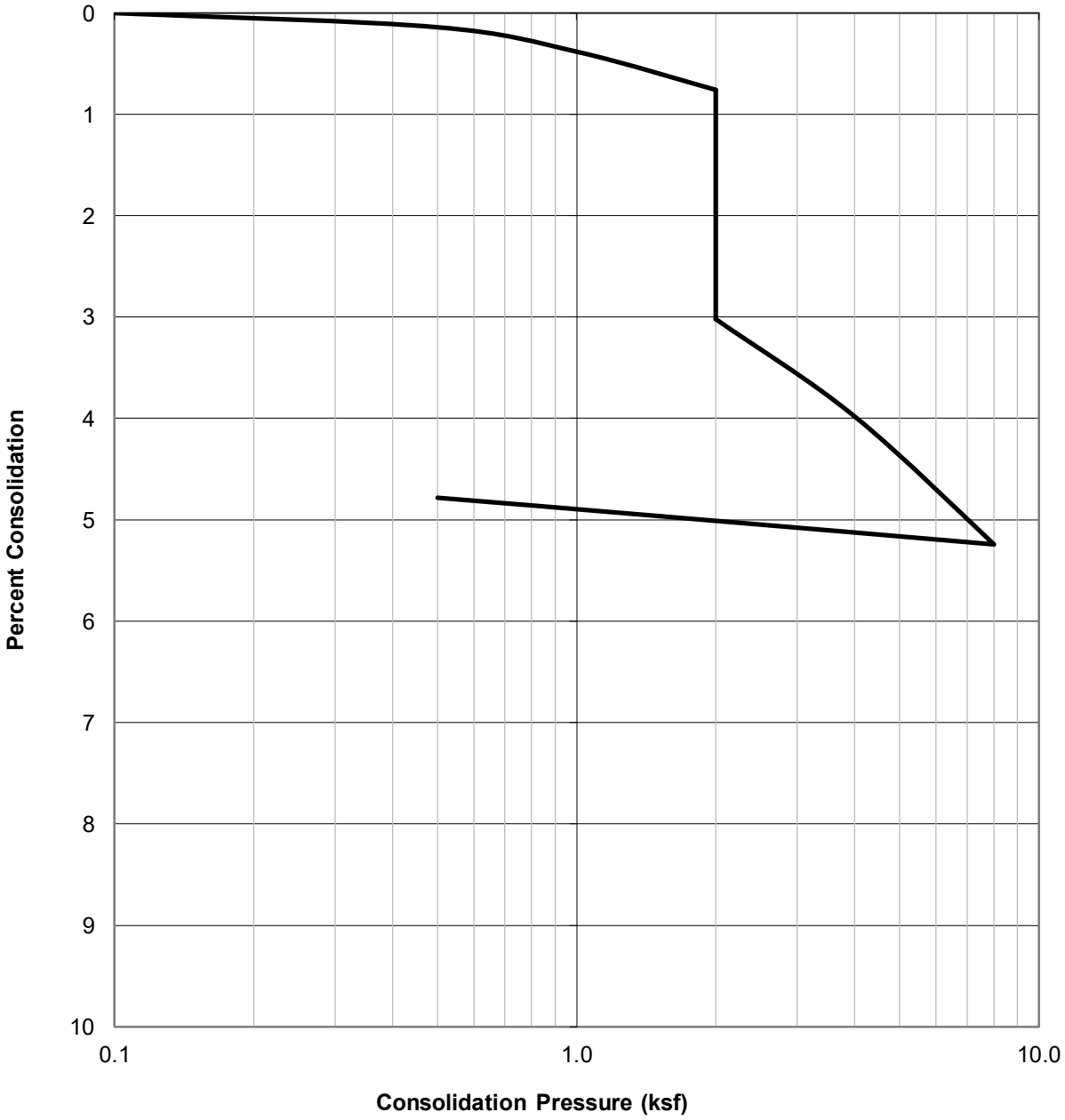
Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B10

WATER ADDED AT 2.0 KSF




| SAMPLE ID. | SOIL TYPE | DRY DENSITY (PCF) | INITIAL MOISTURE (%) | FINAL MOISTURE (%) |
|---|---|---|---|---|
| H@7 | Sand (SP) | 86.9 | 10.4 | 29.9 |

GEOCON

**CONSOLIDATION TEST RESULTS**

ASTM D-2435

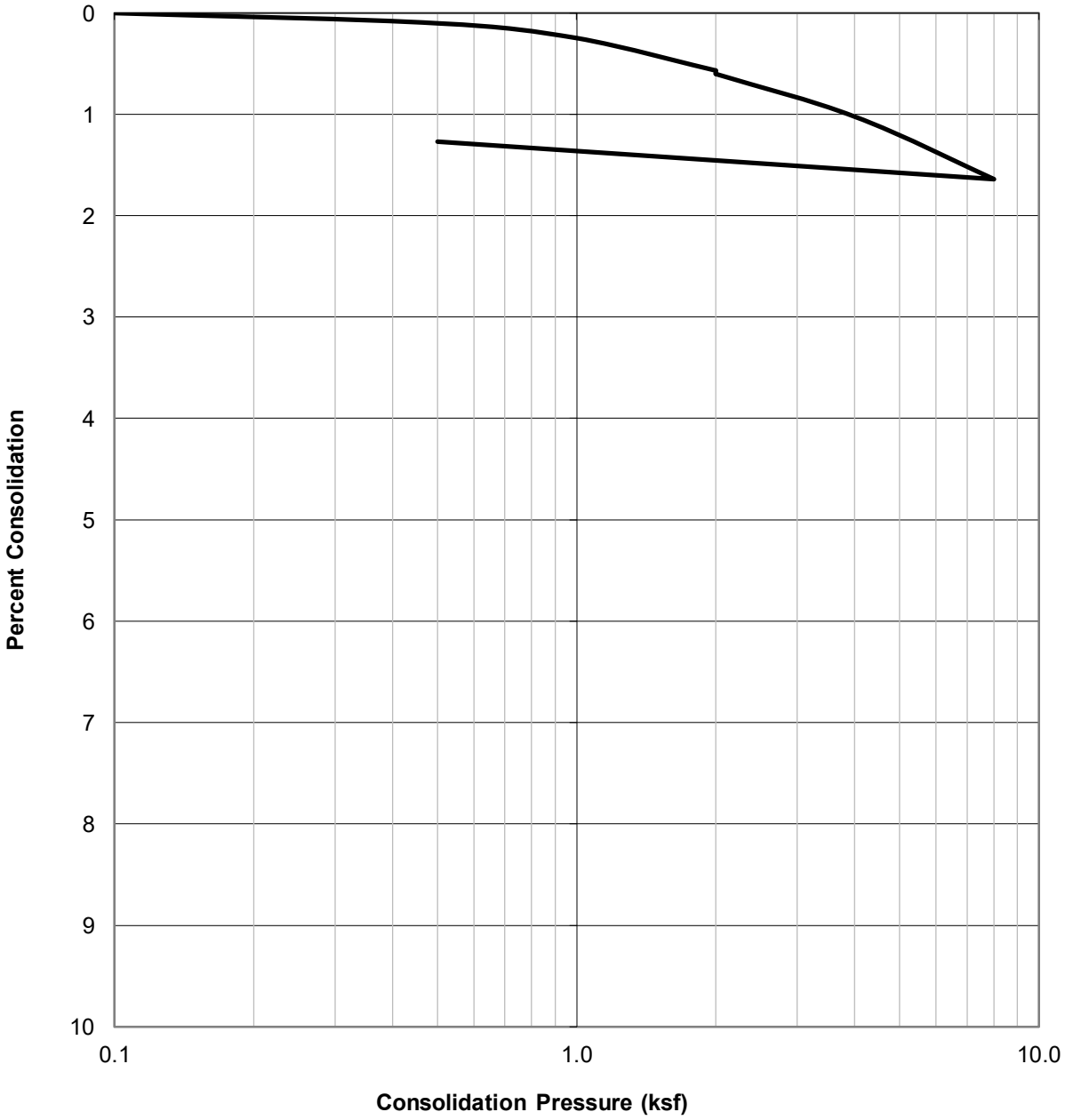
Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B11

WATER ADDED AT 2.0 KSF




| SAMPLE ID. | SOIL TYPE | DRY DENSITY (PCF) | INITIAL MOISTURE (%) | FINAL MOISTURE (%) |
|---|---|---|---|---|
| H@12 | Sand (SP) | 95.2 | 5.1 | 24.4 |

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**CONSOLIDATION TEST RESULTS**

ASTM D-2435

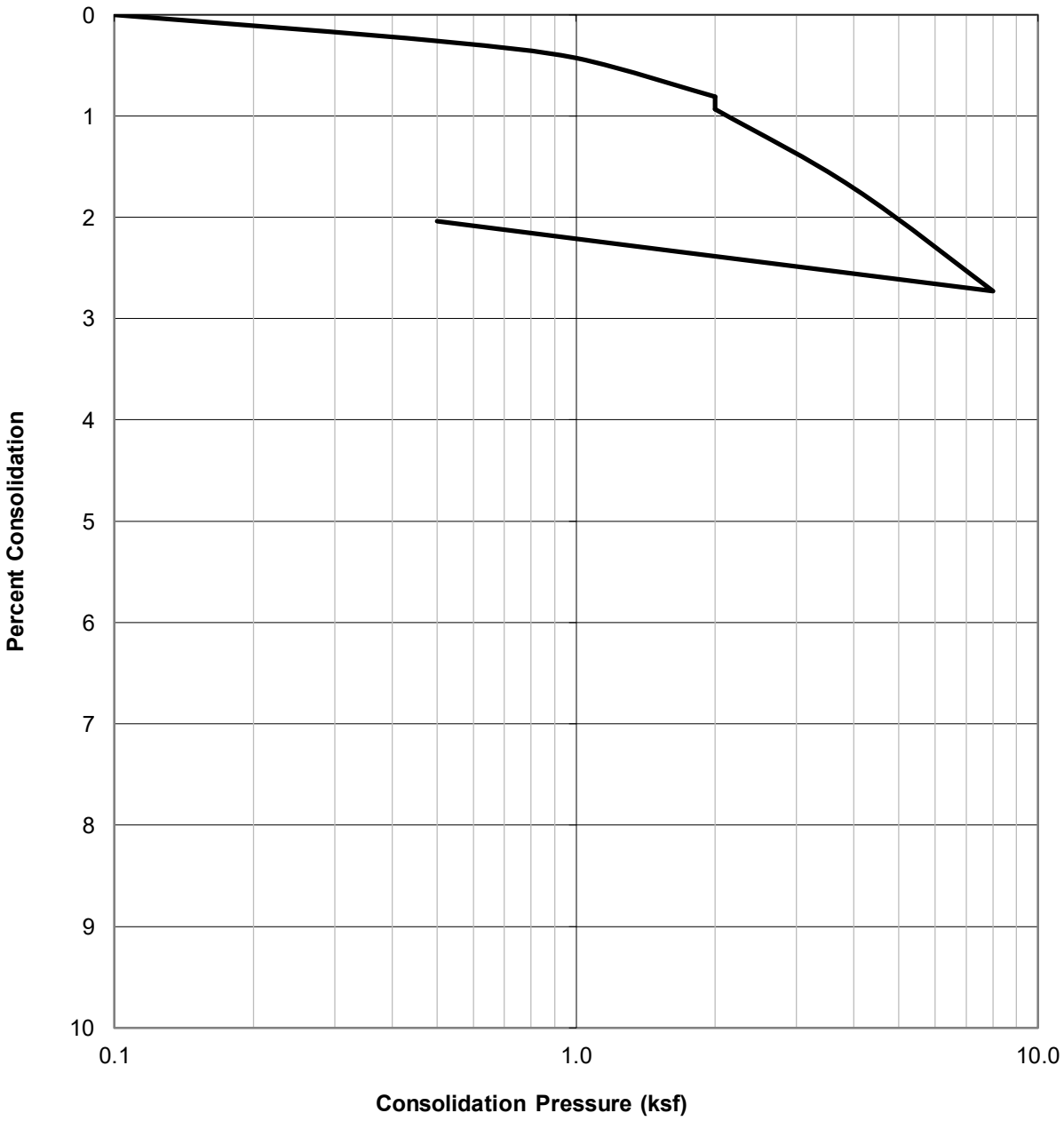
Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B12

WATER ADDED AT 2.0 KSF




| SAMPLE ID. | SOIL TYPE | DRY DENSITY (PCF) | INITIAL MOISTURE (%) | FINAL MOISTURE (%) |
|---|---|---|---|---|
| H@20 | Silty Sand (SM) | 102.2 | 14.7 | 20.8 |

GEOCON

**CONSOLIDATION TEST RESULTS**

ASTM D-2435

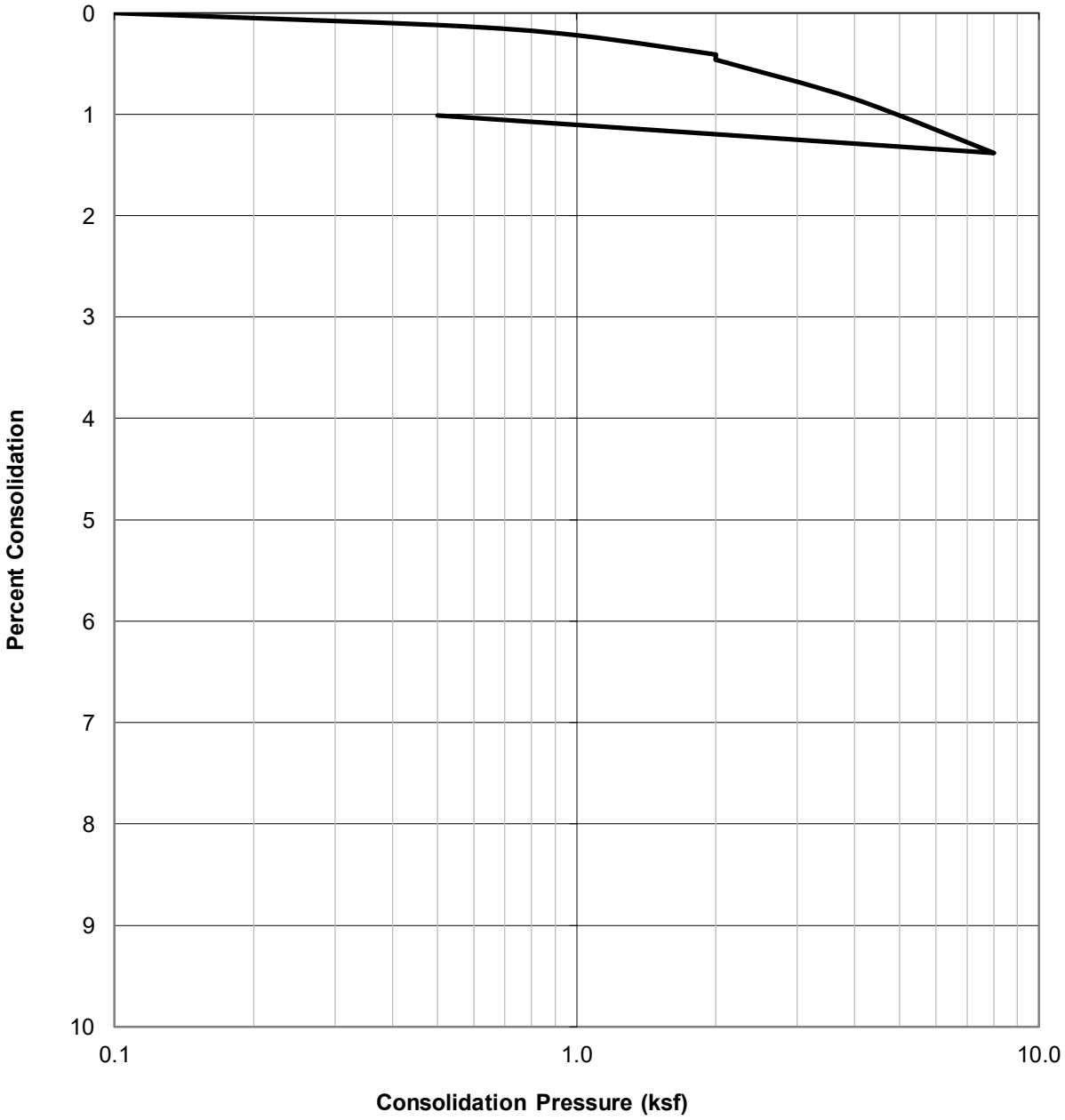
Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B13

WATER ADDED AT 2.0 KSF




| SAMPLE ID. | SOIL TYPE | DRY DENSITY (PCF) | INITIAL MOISTURE (%) | FINAL MOISTURE (%) |
|---|---|---|---|---|
| J@5 | Sand (SP) | 96.1 | 4.1 | 23.7 |

GEOCON

**CONSOLIDATION TEST RESULTS**

ASTM D-2435

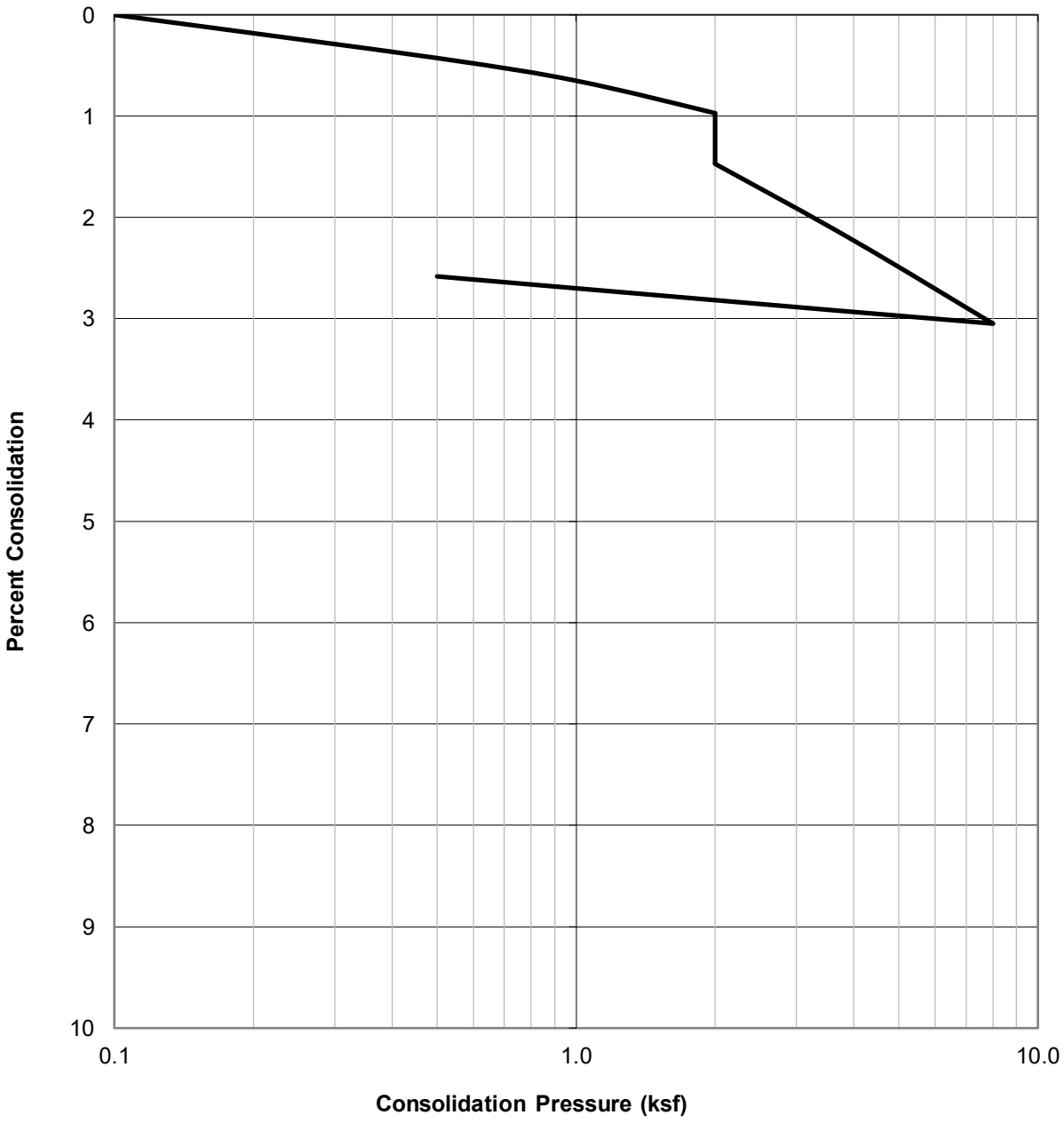
Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B14

WATER ADDED AT 2.0 KSF




| SAMPLE ID. | SOIL TYPE | DRY DENSITY (PCF) | INITIAL MOISTURE (%) | FINAL MOISTURE (%) |
|---|---|---|---|---|
| J@7 | Sand (SP) | 91.0 | 12.9 | 26.3 |

GEOCON

**CONSOLIDATION TEST RESULTS**

ASTM D-2435

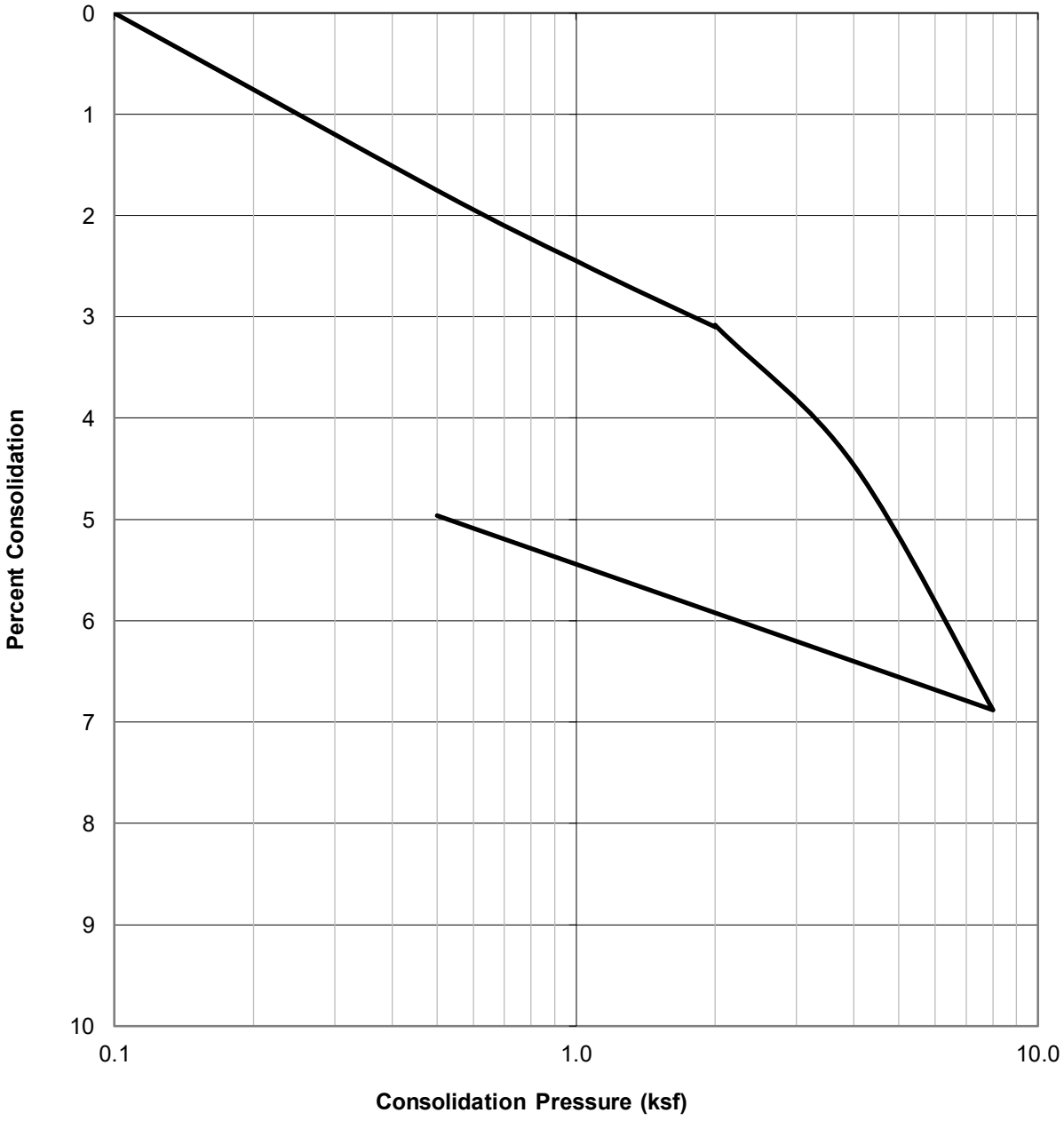
Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B15

WATER ADDED AT 2.0 KSF




| SAMPLE ID. | SOIL TYPE | DRY DENSITY (PCF) | INITIAL MOISTURE (%) | FINAL MOISTURE (%) |
|---|---|---|---|---|
| J@10 | Sandy Clay (CL) | 101.9 | 25.1 | 26.2 |

GEOCON

**CONSOLIDATION TEST RESULTS**

ASTM D-2435

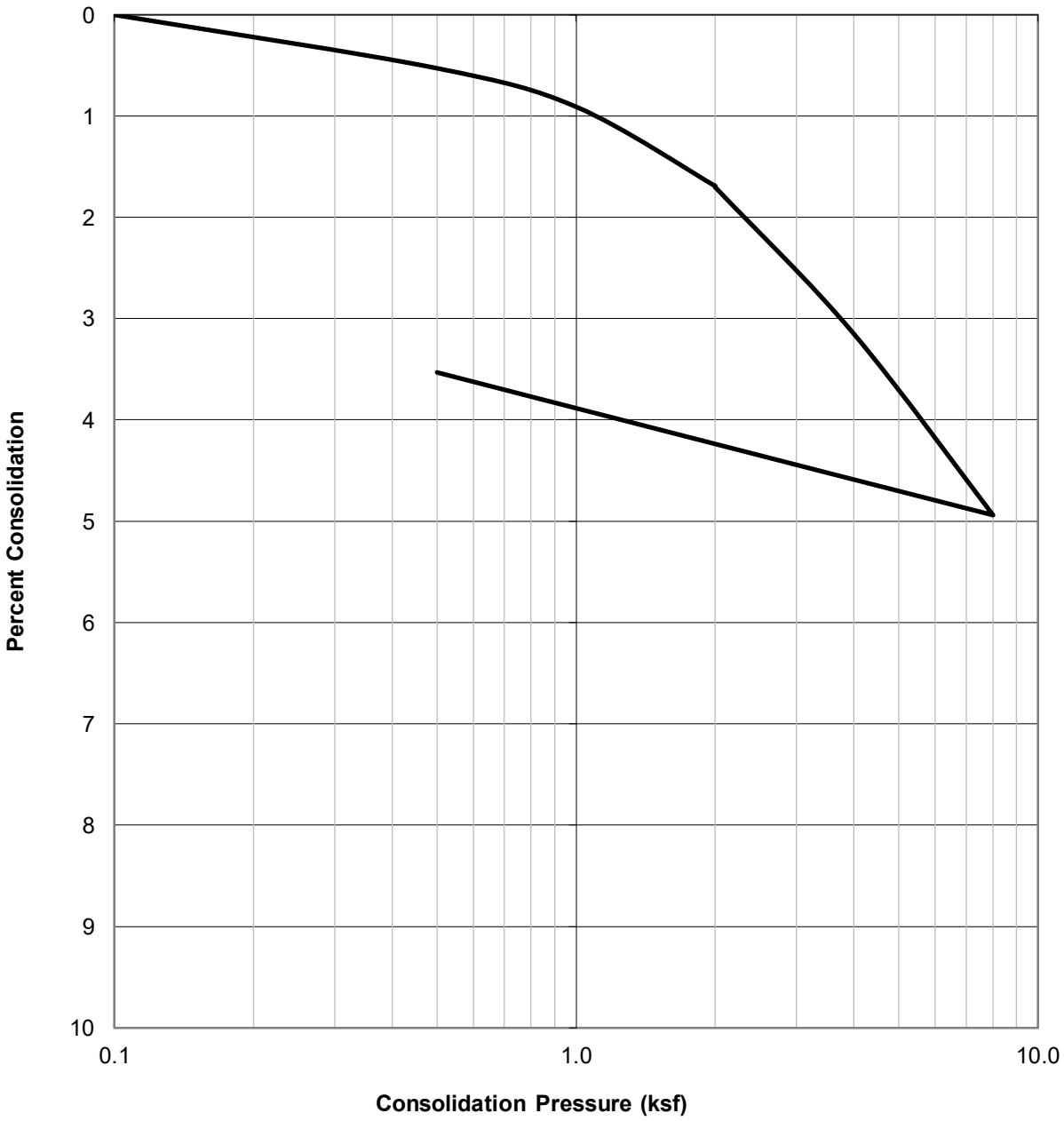
Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B16

WATER ADDED AT 2.0 KSF




| SAMPLE ID. | SOIL TYPE | DRY DENSITY (PCF) | INITIAL MOISTURE (%) | FINAL MOISTURE (%) |
|---|---|---|---|---|
| J@15 | Sandy Clay (CL) | 106.8 | 21.3 | 21.1 |

GEOCON

**CONSOLIDATION TEST RESULTS**

ASTM D-2435

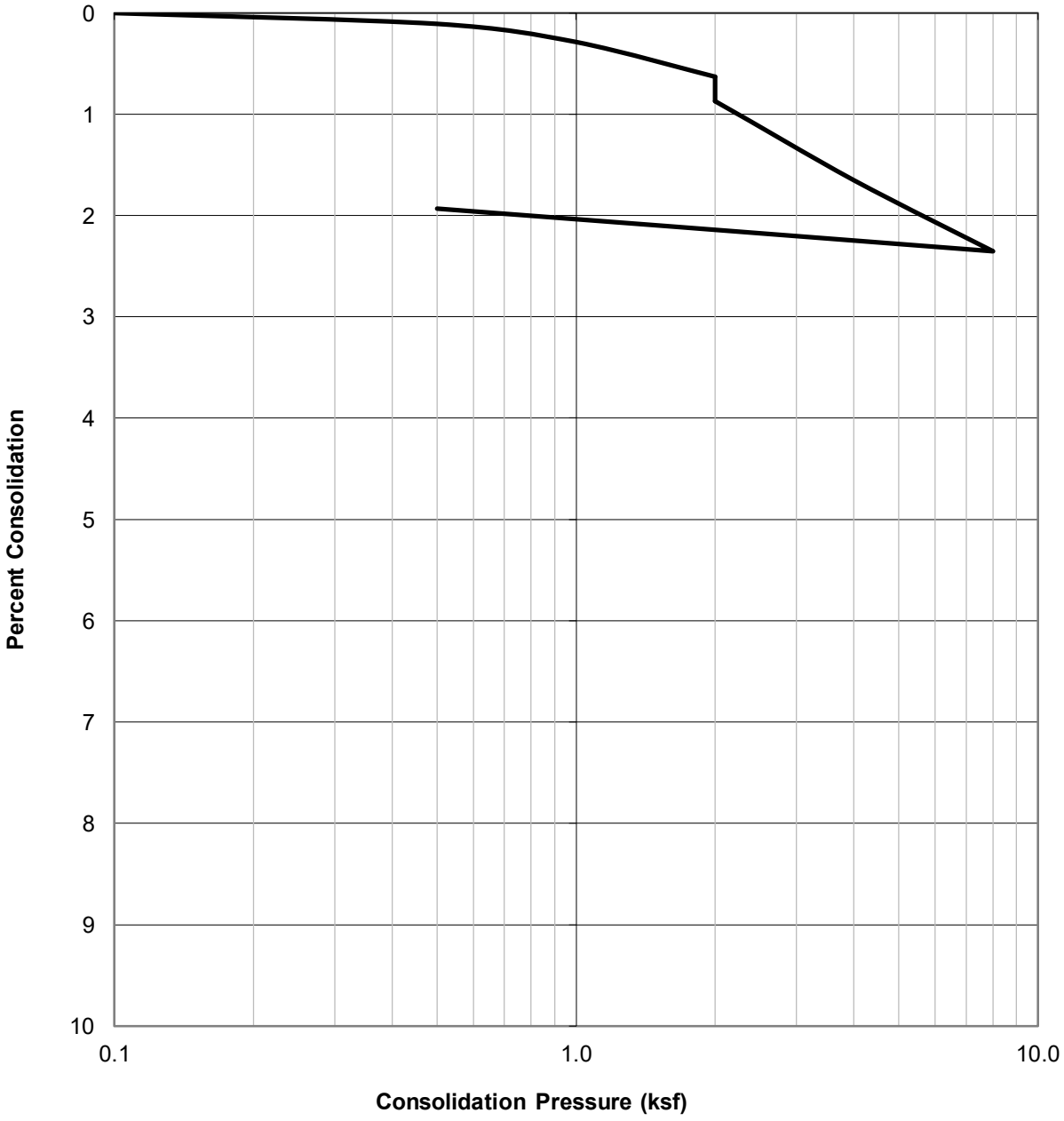
Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B17

WATER ADDED AT 2.0 KSF




| SAMPLE ID. | SOIL TYPE | DRY DENSITY (PCF) | INITIAL MOISTURE (%) | FINAL MOISTURE (%) |
|---|---|---|---|---|
| L@10 | Silty Sand (SM) | 93.5 | 5.3 | 29.3 |

GEOCON

**CONSOLIDATION TEST RESULTS**

ASTM D-2435

Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B18

SUMMARY OF LABORATORY NO. 200 TEST RESULTS

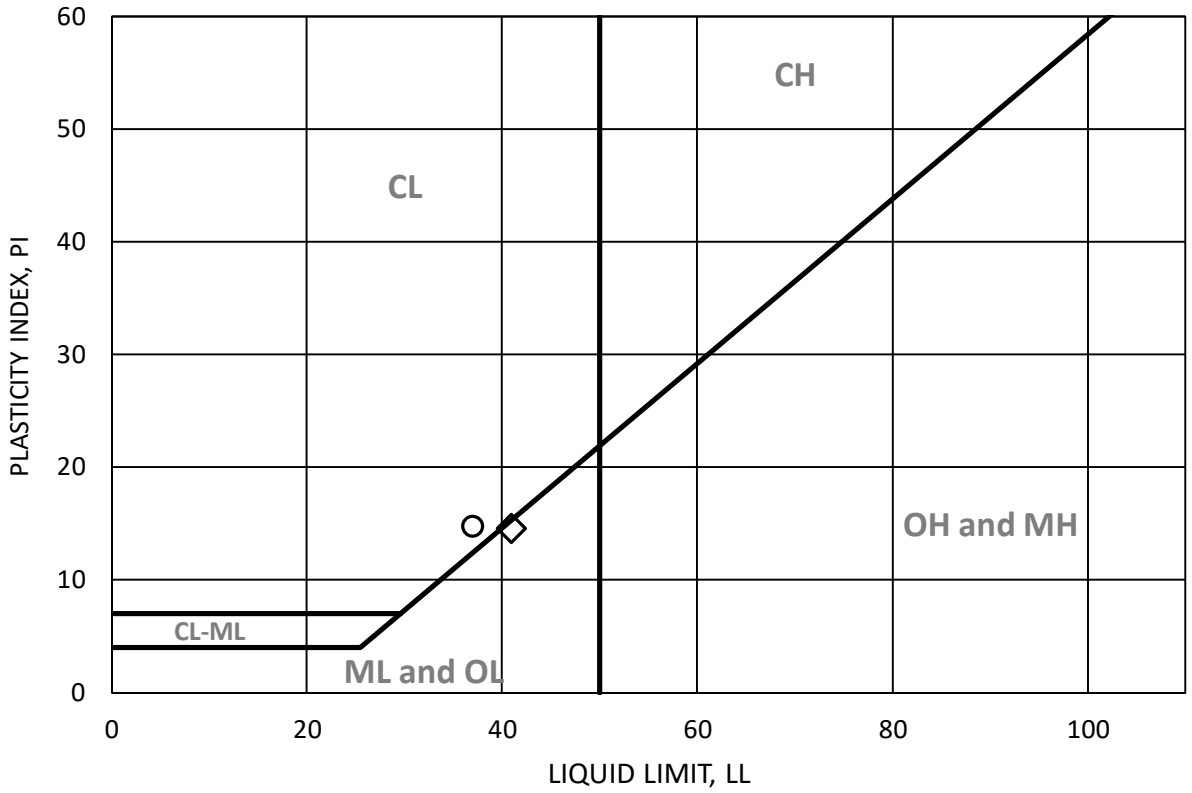
| Sample No. | Percent Passing No. 200 Sieve |
|---|---|
| **E @ 5'** | **79.9** |
| **E @ 7.5'** | **67.6** |
| **E @ 12.5'** | **59.3** |
| **E @ 17.5'** | **34.7** |
| **E @ 22.5'** | **8.7** |
| **E @ 27.5'** | **29.1** |
| **E @ 32.5'** | **11.9** |
| **E @ 37.5'** | **3.8** |
| **E @ 42.5'** | **14.9** |
| **E @ 47.5'** | **70.5** |

SUMMARY OF LABORATORY NO. 200 TEST RESULTS

| Sample No. | Percent Passing No. 200 Sieve |
|---|---|
| F @ 5' | 1.4 |
| F @ 10' | 1.0 |
| F @ 15' | 3.9 |
| F @ 20' | 83.3 |
| F @ 25' | 50.7 |
| F @ 30' | 8.8 |
| F @ 35' | 30.8 |
| F @ 40' | 65.9 |
| F @ 45' | 14.6 |
| F @ 50' | 66.3 |
| F @ 55 | 16.4 |

SUMMARY OF LABORATORY NO. 200 TEST RESULTS

| Sample No. | Percent Passing No. 200 Sieve |
|---|---|
| I @ 5' | 5.2 |
| I @ 7.5' | 83.3 |
| I @ 12.5' | 84.7 |
| I @ 15' | 42.2 |
| I @ 17.5' | 98.8 |
| I @ 22.5' | 36.3 |
| I @ 25' | 97.5 |
| I @ 27.5' | 45.1 |
| I @ 32.5' | 80.8 |
| I @ 35' | 64.3 |
| I @ 37.5' | 11.4 |
| I @ 42.5' | 81.8 |
| I @ 47.5' | 64.6 |
| I @ 62.5 | 88.8 |




| SYMBOL | BORING | DEPTH (ft) | LL | PL | PI | MOISTURE CONTENT AT SATURATION | SOIL BEHAVIOR |
|---|---|---|---|---|---|---|---|
| ■ | E | 47.5 | N/P | N/P | N/P | | N/P |
| ◆ | F | 25 | N/P | N/P | N/P | | N/P |
| ▲ | F | 35 | N/P | N/P | N/P | | N/P |
| ● | F | 40 | N/P | N/P | N/P | | N/P |
| □ | F | 50 | N/P | N/P | N/P | | N/P |
| ◇ | I | 25 | 41 | 26 | 15 | | ML |
| △ | I | 27.5 | N/P | N/P | N/P | | N/P |
| ○ | I | 32.5 | 37 | 22 | 15 | | CL |

N/P = Non-Plastic

GEOCON

**ATTERBERG LIMITS**

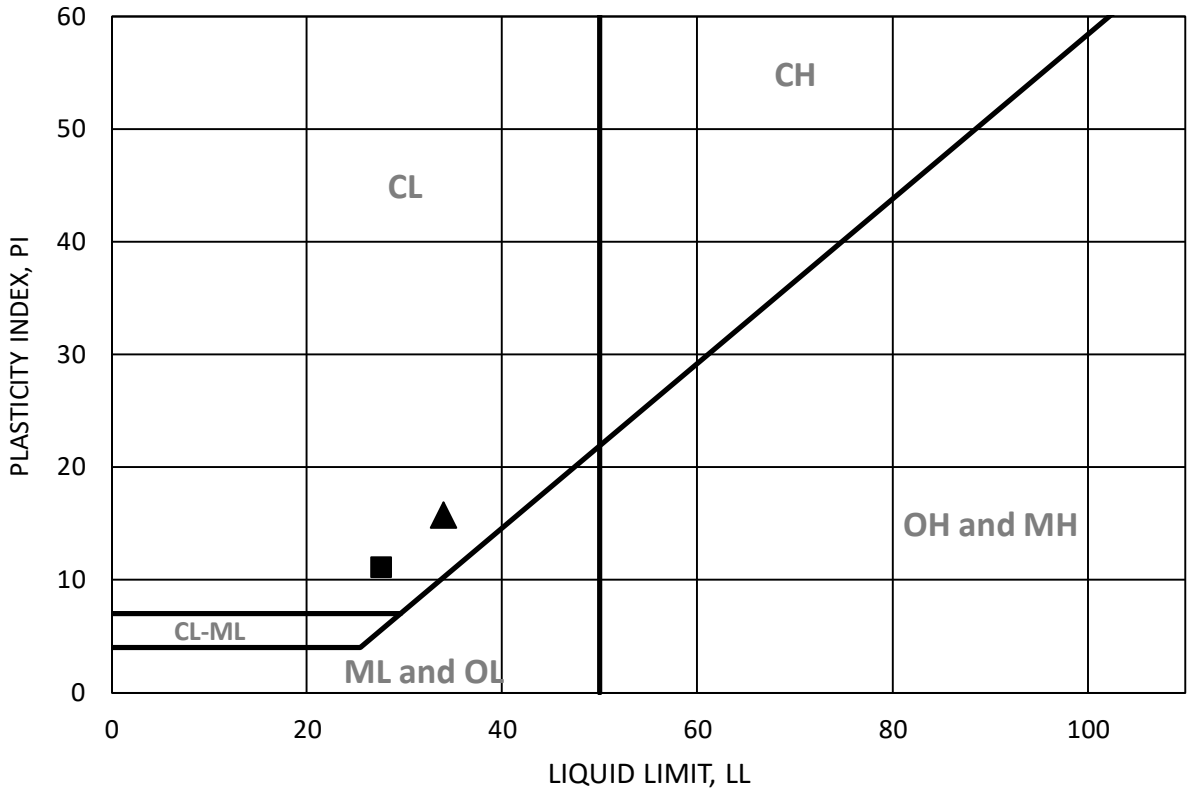
ASTM D-4318

Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2023 Figure B22




| SYMBOL | BORING | DEPTH (ft) | LL | PL | PI | MOISTURE CONTENT AT SATURATION | SOIL BEHAVIOR |
|---|---|---|---|---|---|---|---|
| ■ | I | 42.5 | N/P | N/P | N/P | | N/P |
| ◆ | I | 47.5 | 28 | 17 | 11 | | CL |
| ▲ | I | 62.5 | 34 | 18 | 16 | | CL |
| ● | | | | | | | |
| □ | | | | | | | |
| ◇ | | | | | | | |
| △ | | | | | | | |
| ○ | | | | | | | |

N/P = Non-Plastic

GEOCON

**ATTERBERG LIMITS**

ASTM D-4318

Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B23

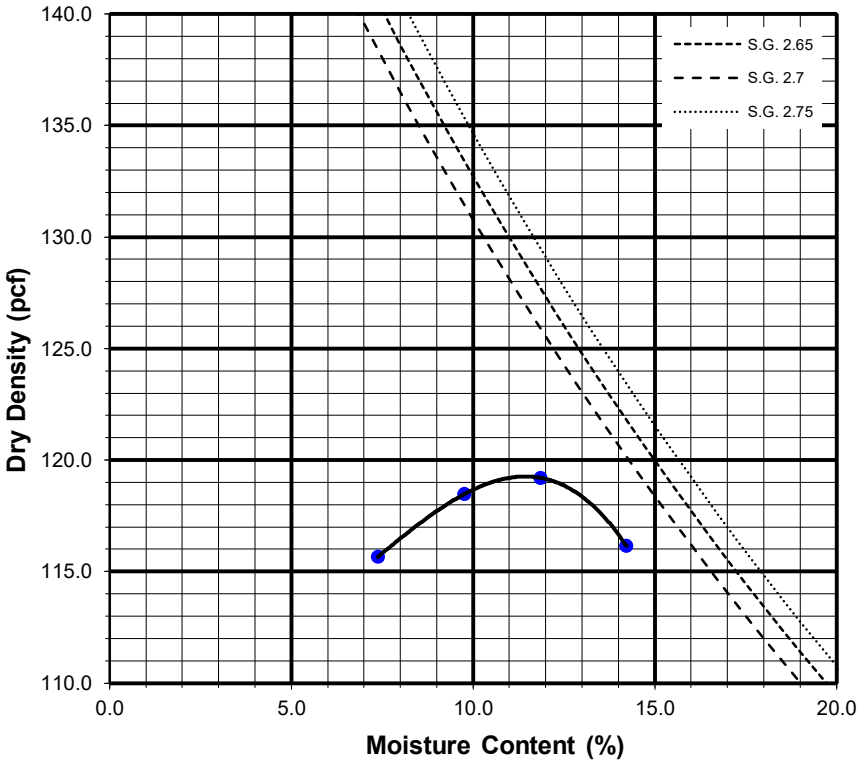
Sample No:

| | |
|---|---|
| **A+B@0-5** | Silty Sand (SM) |

| TEST NO. | | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|
| Wt. Compacted Soil + Mold | (g) | 6158 | 6246 | 6296 | 6286 | | |
| Weight of Mold | (g) | 4282 | 4282 | 4282 | 4282 | | |
| Net Weight of Soil | (g) | 1876 | 1964 | 2014 | 2004 | | |
| Wet Weight of Soil + Cont. | (g) | 2261.4 | 2323.1 | 2400.7 | 2392.5 | | |
| Dry Weight of Soil + Cont. | (g) | 2131.9 | 2150.2 | 2186.3 | 2141.6 | | |
| Weight of Container | (g) | 377.8 | 377.9 | 378.1 | 377.8 | | |
| Moisture Content | (%) | 7.4 | 9.8 | 11.9 | 14.2 | | |
| Wet Density | (pcf) | 124.2 | 130.0 | 133.3 | 132.7 | | |
| Dry Density | (pcf) | 115.7 | 118.5 | 119.2 | 116.2 | | |

| | |
|---|---|
| **Maximum Dry Density (pcf)** | **119.5** |

| | |
|---|---|
| **Optimum Moisture Content (%)** | **11.0** |




Preparation Method: A

GEOCON

**COMPACTION CHARACTERISTICS USING MODIFIED EFFORT TEST RESULTS**

ASTM D-1557

Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B24

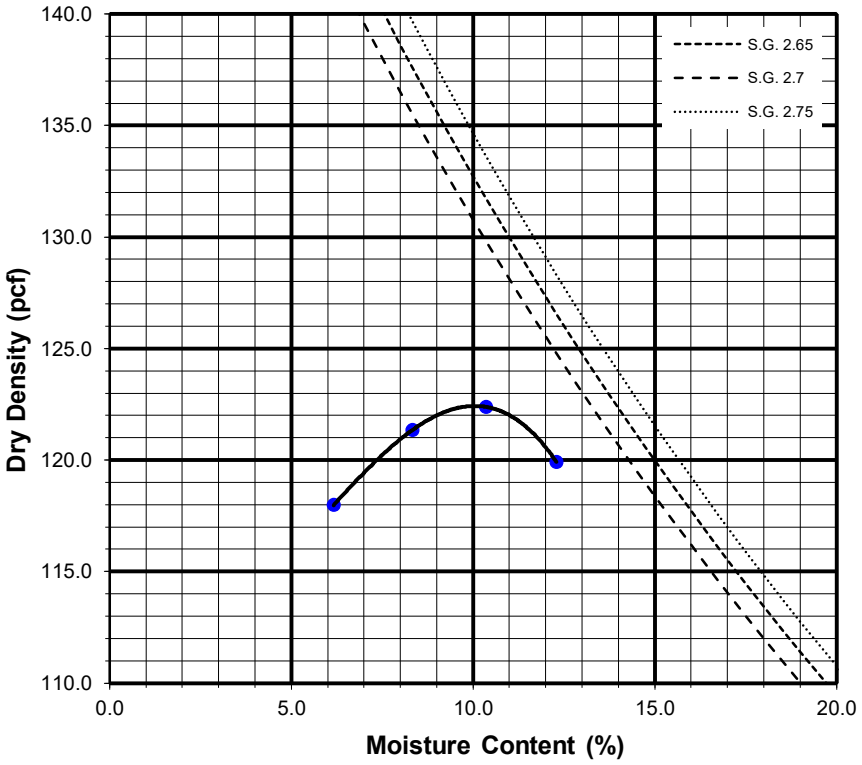
Sample No:

| | |
|---|---|
| **E+F@0-5** | Silty Sand (SM) |

| TEST NO. | | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|
| Wt. Compacted Soil + Mold | (g) | 6174 | 6268 | 6322 | 6316 | | |
| Weight of Mold | (g) | 4282 | 4282 | 4282 | 4282 | | |
| Net Weight of Soil | (g) | 1892 | 1986 | 2040 | 2034 | | |
| Wet Weight of Soil + Cont. | (g) | 2278.4 | 2367.7 | 2429.0 | 2422.6 | | |
| Dry Weight of Soil + Cont. | (g) | 2167.9 | 2214.5 | 2236.6 | 2198.7 | | |
| Weight of Container | (g) | 376.3 | 377.9 | 378.2 | 377.8 | | |
| Moisture Content | (%) | 6.2 | 8.3 | 10.4 | 12.3 | | |
| Wet Density | (pcf) | 125.3 | 131.5 | 135.1 | 134.7 | | |
| Dry Density | (pcf) | 118.0 | 121.4 | 122.4 | 119.9 | | |

| | |
|---|---|
| **Maximum Dry Density (pcf)** | **123.0** |

| | |
|---|---|
| **Optimum Moisture Content (%)** | **9.5** |




Preparation Method: A

GEOCON

**COMPACTION CHARACTERISTICS USING MODIFIED EFFORT TEST RESULTS**

ASTM D-1557

Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

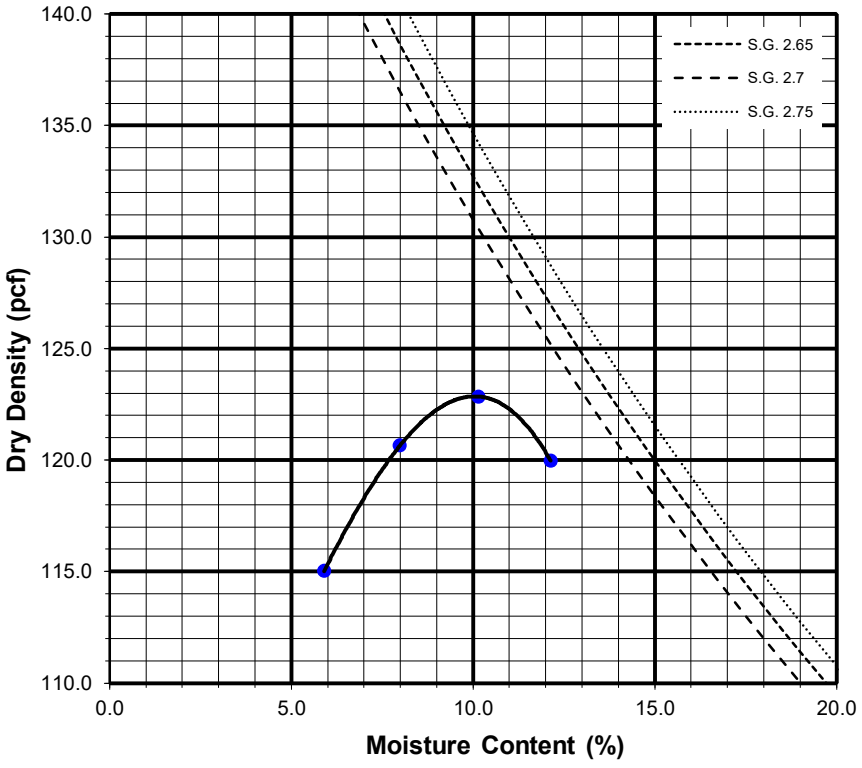
March 2024 Figure B25

Sample No:

| | |
|---|---|
| **M@0-5** | Silty Sand (SM) |

| TEST NO. | | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|
| Wt. Compacted Soil + Mold | (g) | 6326 | 6314 | 6250 | 6122 | | |
| Weight of Mold | (g) | 4282 | 4282 | 4282 | 4282 | | |
| Net Weight of Soil | (g) | 2044 | 2032 | 1968 | 1840 | | |
| Wet Weight of Soil + Cont. | (g) | 2429.4 | 2418.9 | 2322.1 | 2224.9 | | |
| Dry Weight of Soil + Cont. | (g) | 2240.4 | 2197.9 | 2178.2 | 2122.0 | | |
| Weight of Container | (g) | 378.5 | 377.2 | 377.3 | 379.0 | | |
| Moisture Content | (%) | 10.2 | 12.1 | 8.0 | 5.9 | | |
| Wet Density | (pcf) | 135.3 | 134.5 | 130.3 | 121.8 | | |
| Dry Density | (pcf) | 122.9 | 120.0 | 120.6 | 115.0 | | |

| | | | |
|---|---|---|---|
| **Maximum Dry Density (pcf)** | **123.0** | **Optimum Moisture Content (%)** | **9.5** |




Preparation Method: A

GEOCON

**COMPACTION CHARACTERISTICS USING MODIFIED EFFORT TEST RESULTS**

ASTM D-1557

Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B26

# A+B@0-5

| MOLDED SPECIMEN | | BEFORE TEST | AFTER TEST |
|---|---|---|---|
| Specimen Diameter | (in.) | 4.0 | 4.0 |
| Specimen Height | (in.) | 1.0 | 1.0 |
| Wt. Comp. Soil + Mold | (gm) | 584.4 | 623.1 |
| Wt. of Mold | (gm) | 201.8 | 201.8 |
| Specific Gravity | (Assumed) | 2.7 | 2.7 |
| Wet Wt. of Soil + Cont. | (gm) | 300.0 | 623.1 |
| Dry Wt. of Soil + Cont. | (gm) | 267.9 | 341.6 |
| Wt. of Container | (gm) | 0.0 | 201.8 |
| Moisture Content | (%) | 12.0 | 23.3 |
| Wet Density | (pcf) | 115.4 | 126.9 |
| Dry Density | (pcf) | 103.0 | 102.9 |
| Void Ratio | | 0.6 | 0.6 |
| Total Porosity | | 0.4 | 0.4 |
| Pore Volume | (cc) | 80.5 | 80.5 |
| Degree of Saturation | (%) [$S_{meas}$] | 51.3 | 99.1 |

| Date | Time | Pressure (psi) | Elapsed Time (min) | Dial Readings (in.) |
|---|---|---|---|---|
| 2/29/2024 | 10:00 | 1.0 | 0 | 0.4451 |
| 2/29/2024 | 10:10 | 1.0 | 10 | 0.4449 |
| Add Distilled Water to the Specimen | | | | |
| 3/1/2024 | 10:00 | 1.0 | 1430 | 0.4448 |
| 3/1/2024 | 11:00 | 1.0 | 1490 | 0.4448 |

| | |
|---|---|
| Expansion Index (EI meas) = | -0.1 |
| Expansion Index ( Report ) = | **0** |

| Expansion Index, $EI_{50}$ | CBC CLASSIFICATION * | UBC CLASSIFICATION ** |
|---|---|---|
| 0-20 | Non-Expansive | Very Low |
| 21-50 | Expansive | Low |
| 51-90 | Expansive | Medium |
| 91-130 | Expansive | High |
| >130 | Expansive | Very High |

* Reference: 2022 California Building Code, Section 1803.5.3

** Reference: 1997 Uniform Building Code, Table 18-I-B.

GEOCON

**EXPANSION INDEX TEST RESULTS**

ASTM D-4829

Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B27

# E+F@0-5

| MOLDED SPECIMEN | | BEFORE TEST | AFTER TEST |
|---|---|---|---|
| Specimen Diameter | (in.) | 4.0 | 4.0 |
| Specimen Height | (in.) | 1.0 | 1.0 |
| Wt. Comp. Soil + Mold | (gm) | 572.2 | 597.5 |
| Wt. of Mold | (gm) | 171.3 | 171.3 |
| Specific Gravity | (Assumed) | 2.7 | 2.7 |
| Wet Wt. of Soil + Cont. | (gm) | 300.0 | 597.5 |
| Dry Wt. of Soil + Cont. | (gm) | 272.7 | 364.5 |
| Wt. of Container | (gm) | 0.0 | 171.3 |
| Moisture Content | (%) | 10.0 | 16.9 |
| Wet Density | (pcf) | 120.9 | 128.4 |
| Dry Density | (pcf) | 109.9 | 109.8 |
| Void Ratio | | 0.5 | 0.5 |
| Total Porosity | | 0.3 | 0.3 |
| Pore Volume | (cc) | 72.0 | 72.0 |
| Degree of Saturation | (%) [$S_{meas}$] | 51.0 | 85.8 |

| Date | Time | Pressure (psi) | Elapsed Time (min) | Dial Readings (in.) |
|---|---|---|---|---|
| 2/29/2024 | 10:00 | 1.0 | 0 | 0.4441 |
| 2/29/2024 | 10:10 | 1.0 | 10 | 0.444 |
| Add Distilled Water to the Specimen | | | | |
| 3/1/2024 | 10:00 | 1.0 | 1430 | 0.4439 |
| 3/1/2024 | 11:00 | 1.0 | 1490 | 0.4439 |

| | |
|---|---|
| Expansion Index (EI meas) = | -0.1 |
| Expansion Index ( Report ) = | **0** |

| Expansion Index, $EI_{50}$ | CBC CLASSIFICATION * | UBC CLASSIFICATION ** |
|---|---|---|
| 0-20 | Non-Expansive | Very Low |
| 21-50 | Expansive | Low |
| 51-90 | Expansive | Medium |
| 91-130 | Expansive | High |
| >130 | Expansive | Very High |

* Reference: 2022 California Building Code, Section 1803.5.3

** Reference: 1997 Uniform Building Code, Table 18-I-B.

GEOCON

**EXPANSION INDEX TEST RESULTS**

ASTM D-4829

Checked by: ACS

Project No.: W1857-88-01

OC YTC
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March 2024 Figure B28

# M@0-5

| MOLDED SPECIMEN | | BEFORE TEST | AFTER TEST |
|---|---|---|---|
| Specimen Diameter | (in.) | 4.0 | 4.0 |
| Specimen Height | (in.) | 1.0 | 1.0 |
| Wt. Comp. Soil + Mold | (gm) | 576.2 | 584.3 |
| Wt. of Mold | (gm) | 176.4 | 176.4 |
| Specific Gravity | (Assumed) | 2.7 | 2.7 |
| Wet Wt. of Soil + Cont. | (gm) | 300.0 | 584.3 |
| Dry Wt. of Soil + Cont. | (gm) | 272.2 | 362.8 |
| Wt. of Container | (gm) | 0.0 | 176.4 |
| Moisture Content | (%) | 10.2 | 12.4 |
| Wet Density | (pcf) | 120.6 | 122.9 |
| Dry Density | (pcf) | 109.4 | 109.3 |
| Void Ratio | | 0.5 | 0.5 |
| Total Porosity | | 0.4 | 0.4 |
| Pore Volume | (cc) | 72.6 | 73.0 |
| Degree of Saturation | (%) [$S_{meas}$] | 51.4 | 61.8 |

| Date | Time | Pressure (psi) | Elapsed Time (min) | Dial Readings (in.) |
|---|---|---|---|---|
| 2/29/2024 | 10:00 | 1.0 | 0 | 0.4416 |
| 2/29/2024 | 10:10 | 1.0 | 10 | 0.4416 |
| Add Distilled Water to the Specimen | | | | |
| 3/1/2024 | 10:00 | 1.0 | 1430 | 0.4434 |
| 3/1/2024 | 11:00 | 1.0 | 1490 | 0.4434 |

| | |
|---|---|
| Expansion Index (EI meas) = | 1.8 |
| Expansion Index ( Report ) = | **2** |

| Expansion Index, $EI_{50}$ | CBC CLASSIFICATION * | UBC CLASSIFICATION ** |
|---|---|---|
| 0-20 | Non-Expansive | Very Low |
| 21-50 | Expansive | Low |
| 51-90 | Expansive | Medium |
| 91-130 | Expansive | High |
| >130 | Expansive | Very High |

* Reference: 2022 California Building Code, Section 1803.5.3

** Reference: 1997 Uniform Building Code, Table 18-I-B.

GEOCON

**EXPANSION INDEX TEST RESULTS**

ASTM D-4829

Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B29

SUMMARY OF LABORATORY
POTENTIAL OF HYDROGEN (pH) AND RESISTIVITY TEST RESULTS
AASHTO T289 ASTM D4972 and AASHTO T288 ASTM G187

| Sample No. | pH | Resistivity (ohm centimeters) |
|---|---|---|
| E+F@0-5 | 8.4 | 5900 (Moderately Corrosive) |
| M@0-5 | 8.7 | 2800 (Moderately Corrosive) |
| | | |

SUMMARY OF LABORATORY CHLORIDE CONTENT TEST RESULTS
AASHTO T291 ASTM C1218

| Sample No. | Chloride Ion Content (%) |
|---|---|
| E+F@0-5 | 0.002 |
| M@0-5 | 0.075 |
| | |

SUMMARY OF LABORATORY WATER SOLUBLE SULFATE TEST RESULTS
AASHTO T290 ASTM C1580

| Sample No. | Water Soluble Sulfate (% $SO_4$) | Sulfate Exposure |
|---|---|---|
| E+F@0-5 | 0.001 | S0 |
| M@0-5 | 0.000 | S0 |
| | | |

GEOCON

**CORROSIVITY TEST RESULTS**

Checked by: ACS

Project No.: W1857-88-01

OC YTC
331 THE CITY DRIVE SOUTH
ORANGE, CALIFORNIA

March 2024 Figure B30

# APPENDIX C

# APPENDIX C

# CPT ANALYSIS OF LIQUEFACTION POTENTIAL

# TABLE OF CONTENTS

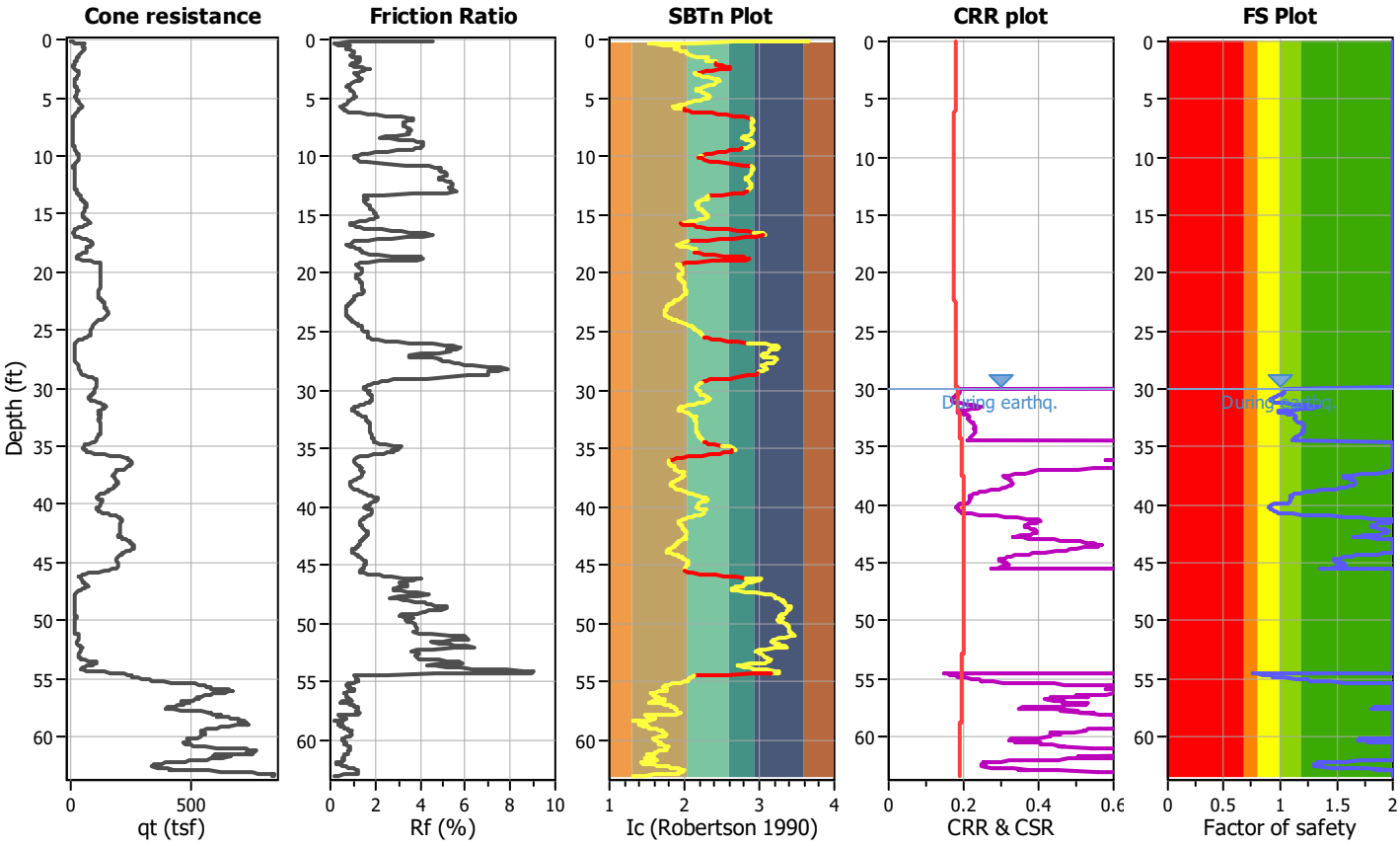
# LIQUEFACTION ANALYSIS REPORT

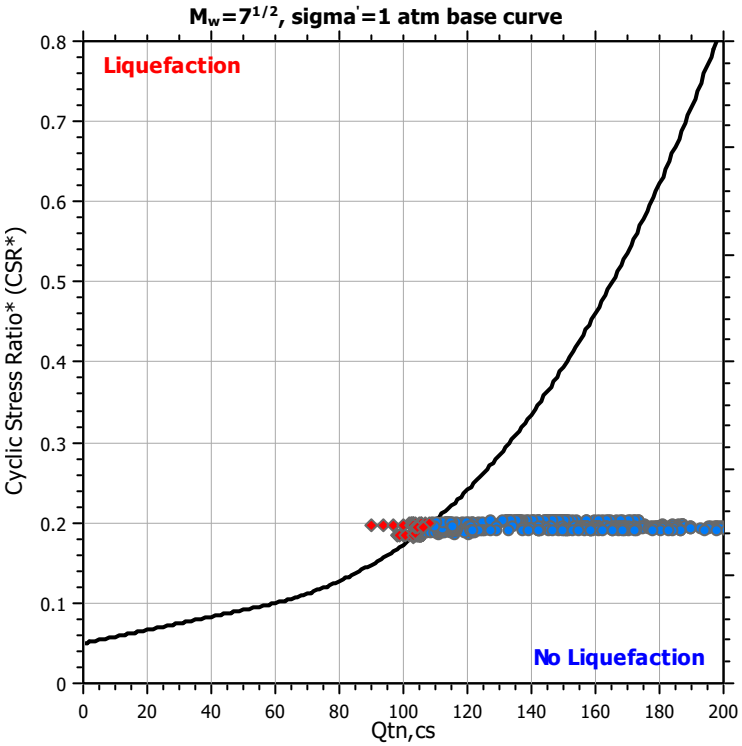
**Project title : W1857-88-01** **Location : 331 The City Drive S**

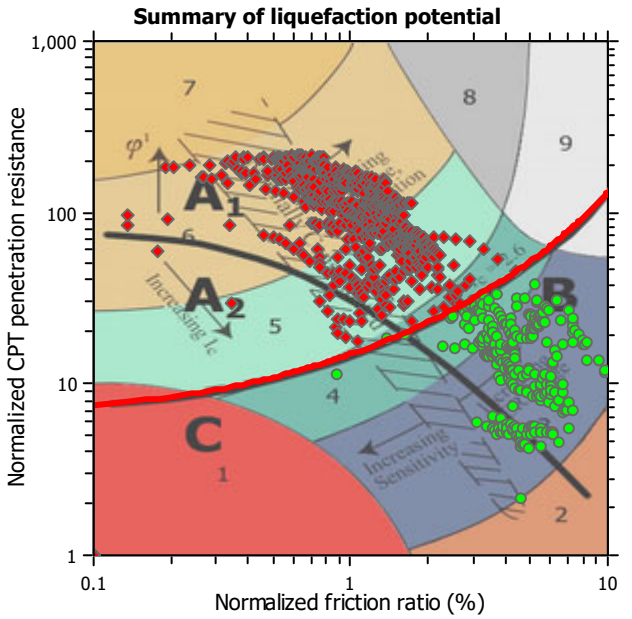
**CPT file : CPT-1**

**Input parameters and analysis data**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 54.00 ft | Use fill: | No | Clay like behavior applied: | Sands only |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 30.00 ft | Fill height: | N/A | Limit depth applied: | No |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth: | N/A |
| Earthquake magnitude $M_w$: | 6.12 | Ic cut-off value: | 2.60 | Trans. detect. applied: | Yes | MSF method: | Method based |
| Peak ground acceleration: | 0.42 | Unit weight calculation: | Based on SBT | $K_\sigma$ applied: | Yes | | |

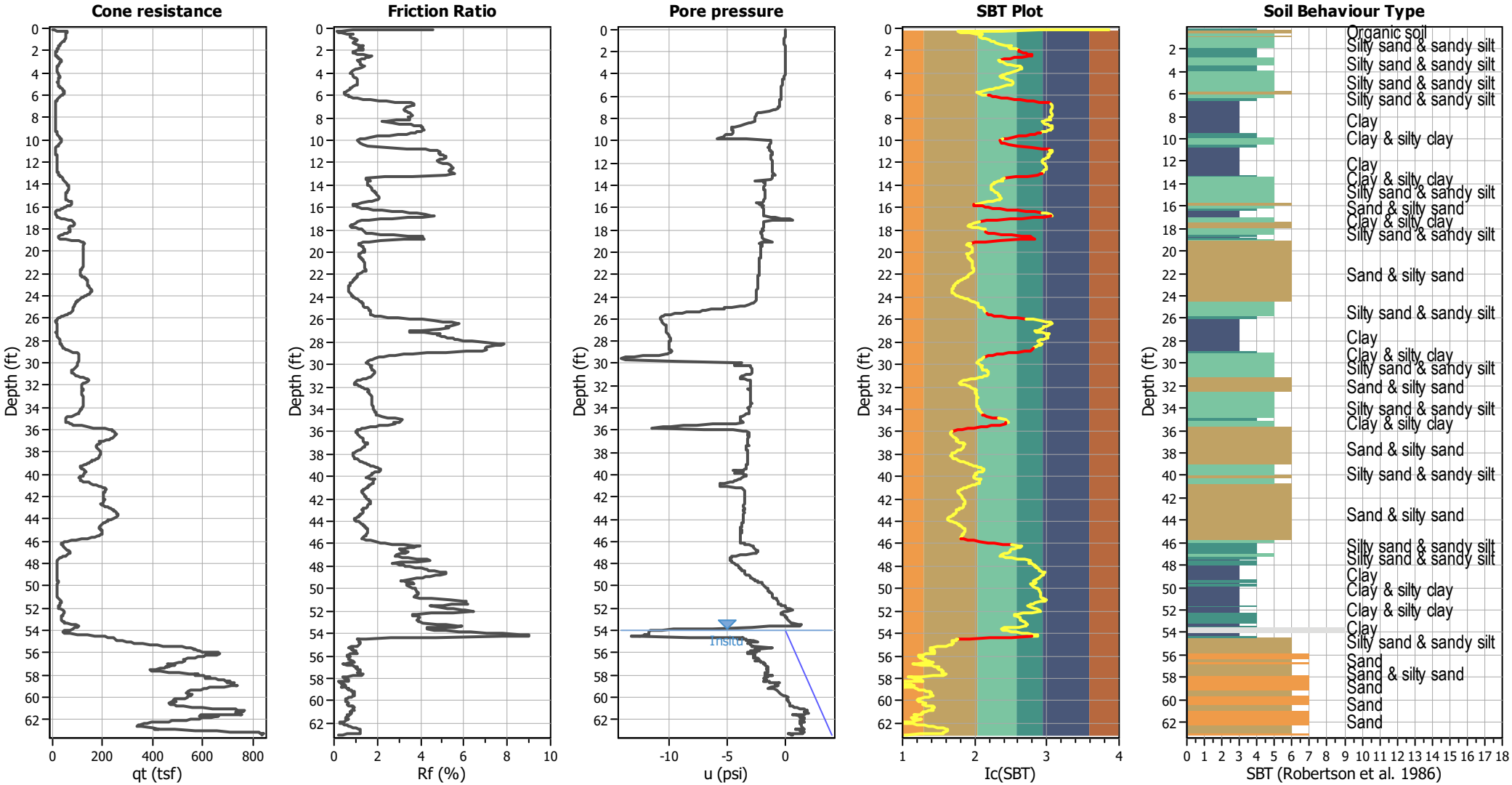



Zone $A_1$: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone $A_2$: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

# CPT basic interpretation plots



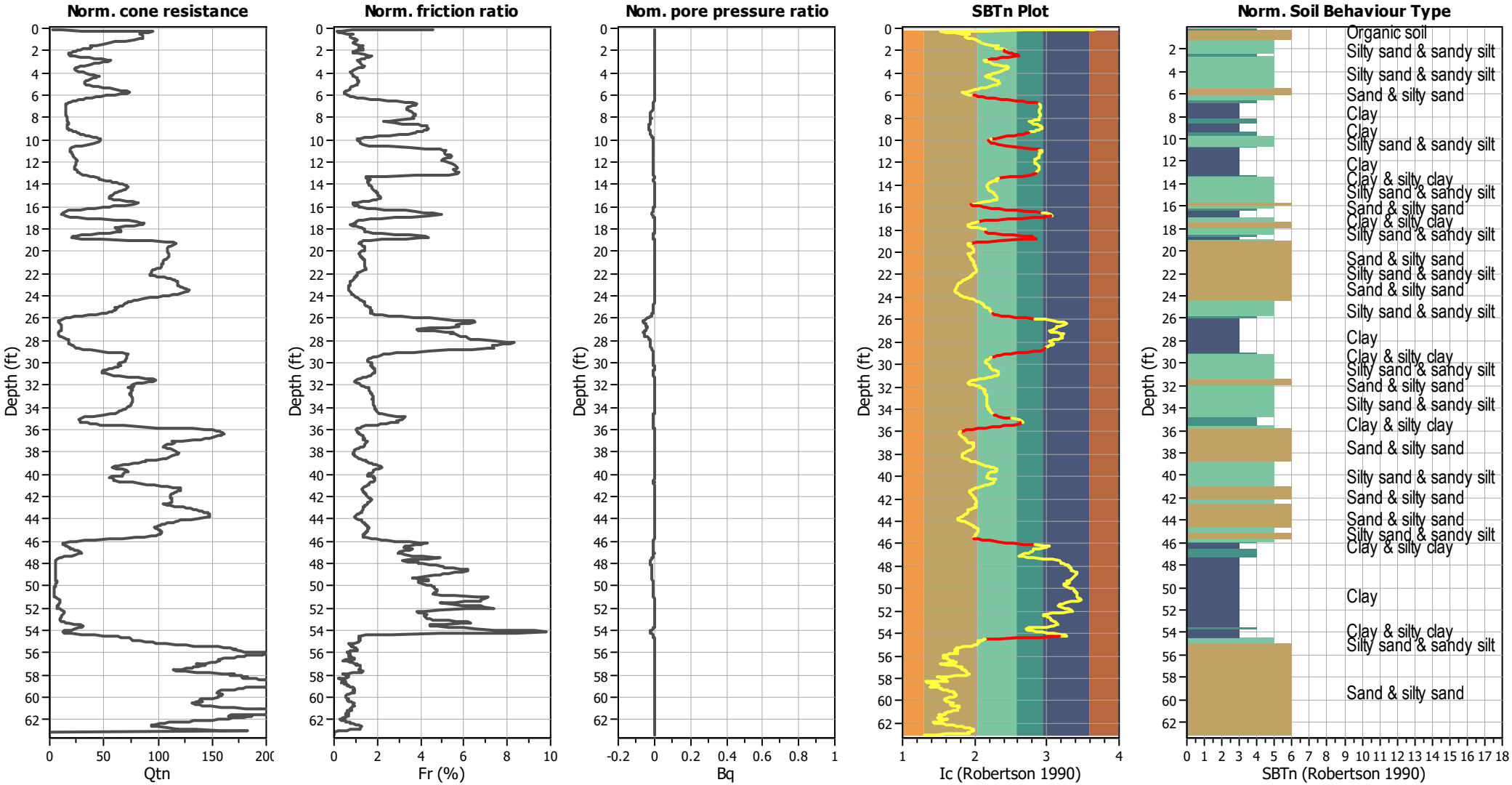

## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.12 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.42 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

**SBT legend**

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

# CPT basic interpretation plots (normalized)



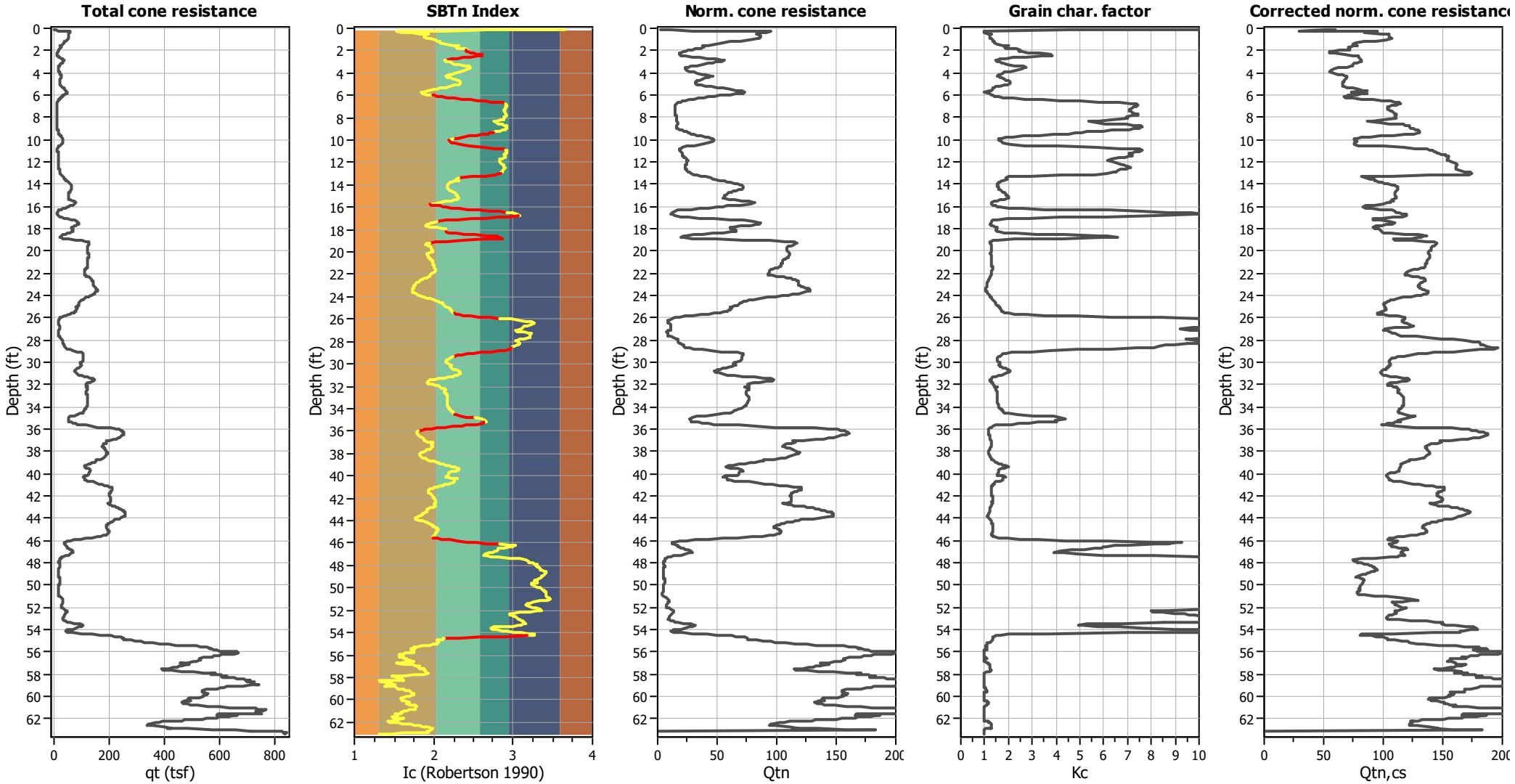

## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.12 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.42 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

**SBTn legend**

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

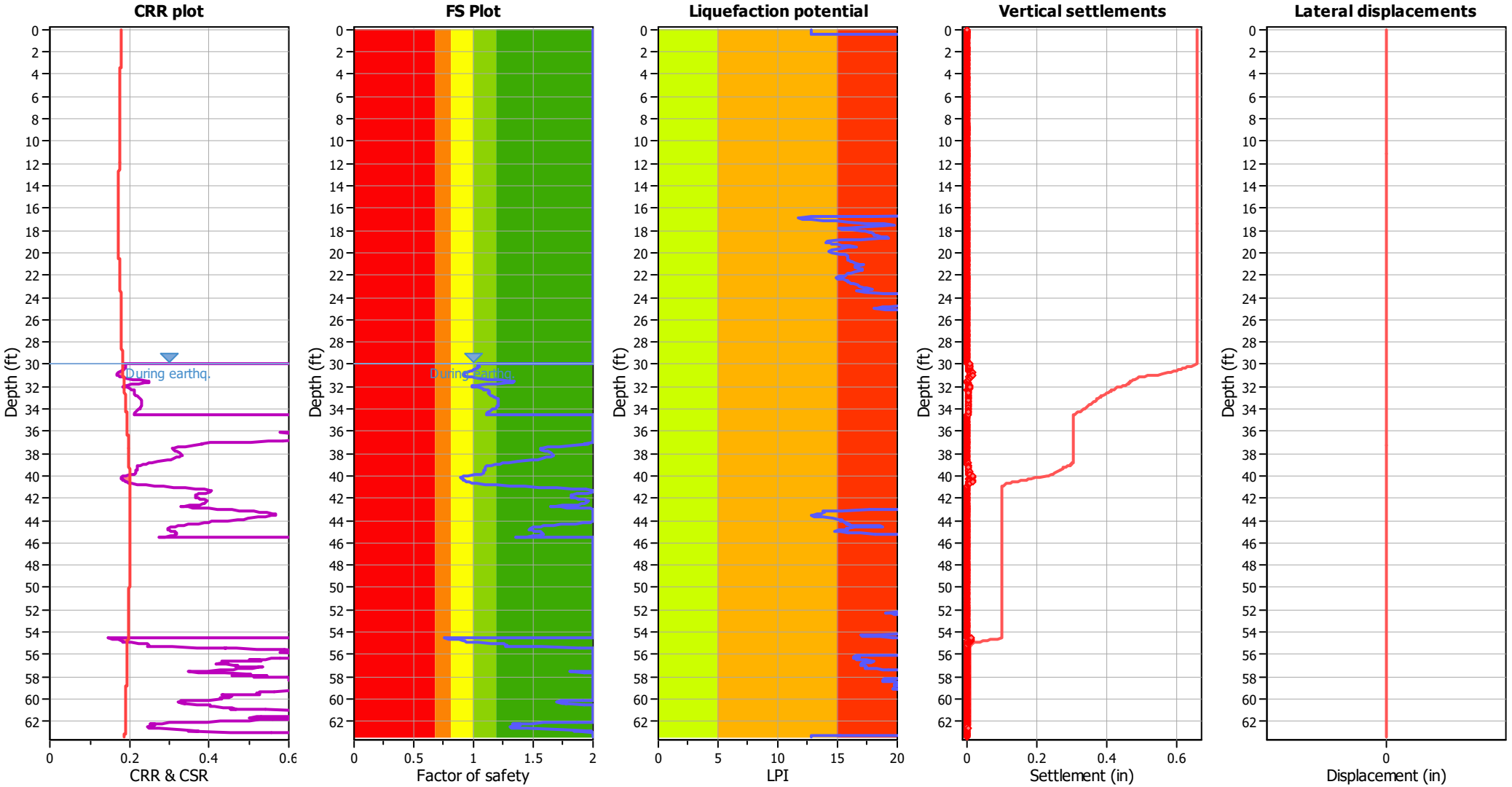
# Liquefaction analysis overall plots (intermediate results)




## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.12 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.42 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

# Liquefaction analysis overall plots




## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.12 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.42 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

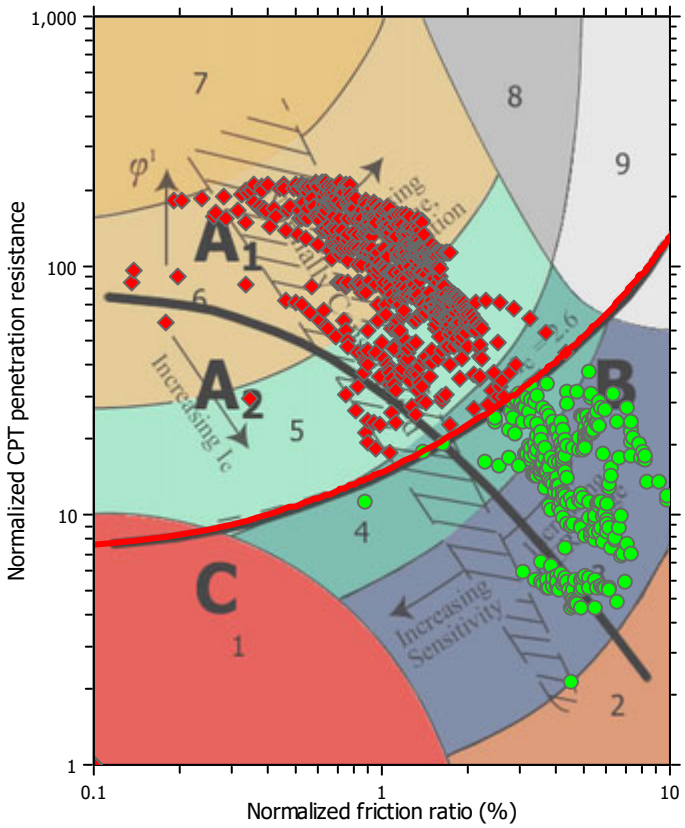
**F.S. color scheme**

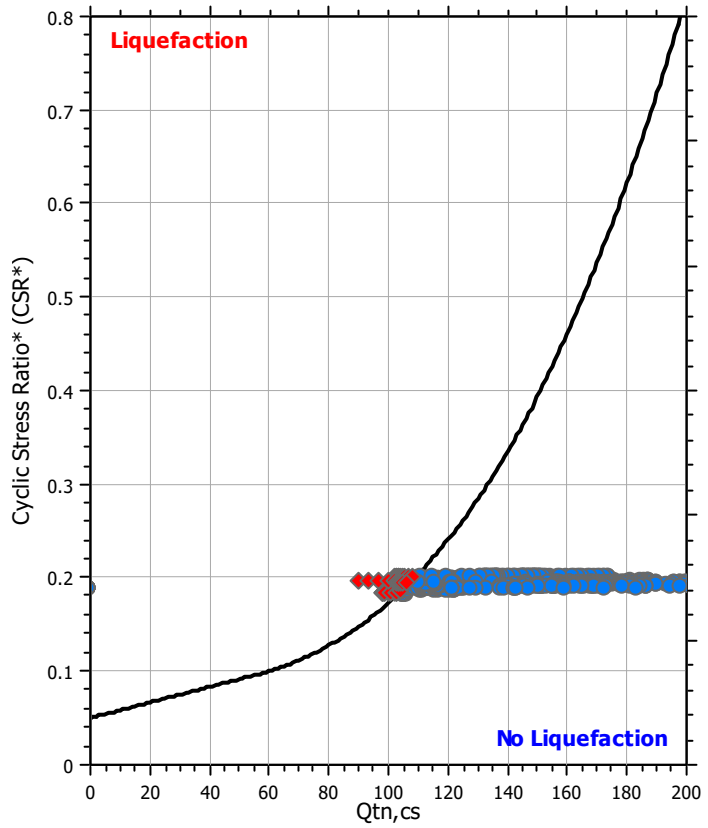
- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

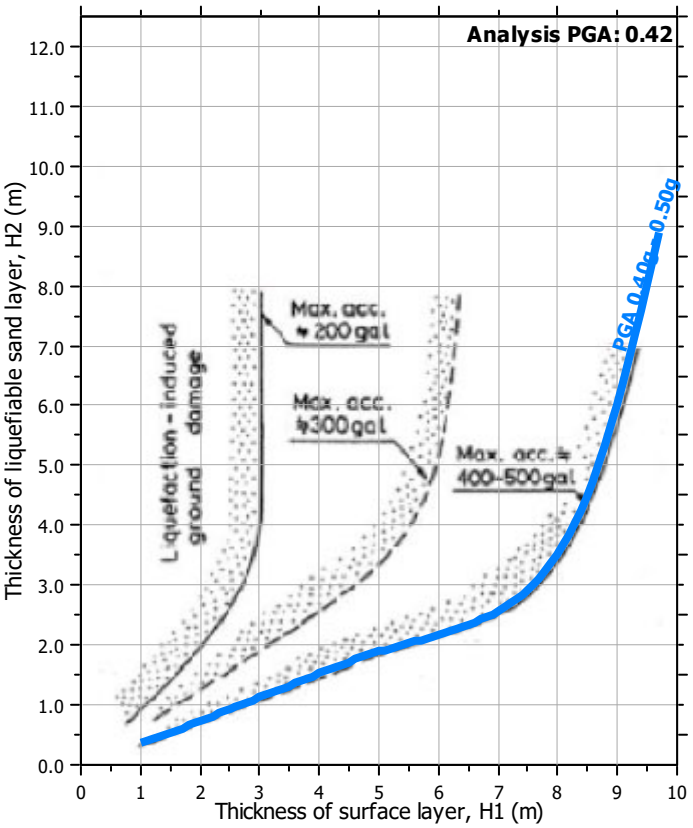
**LPI color scheme**

- Very high risk
- High risk
- Low risk

# Liquefaction analysis summary plots



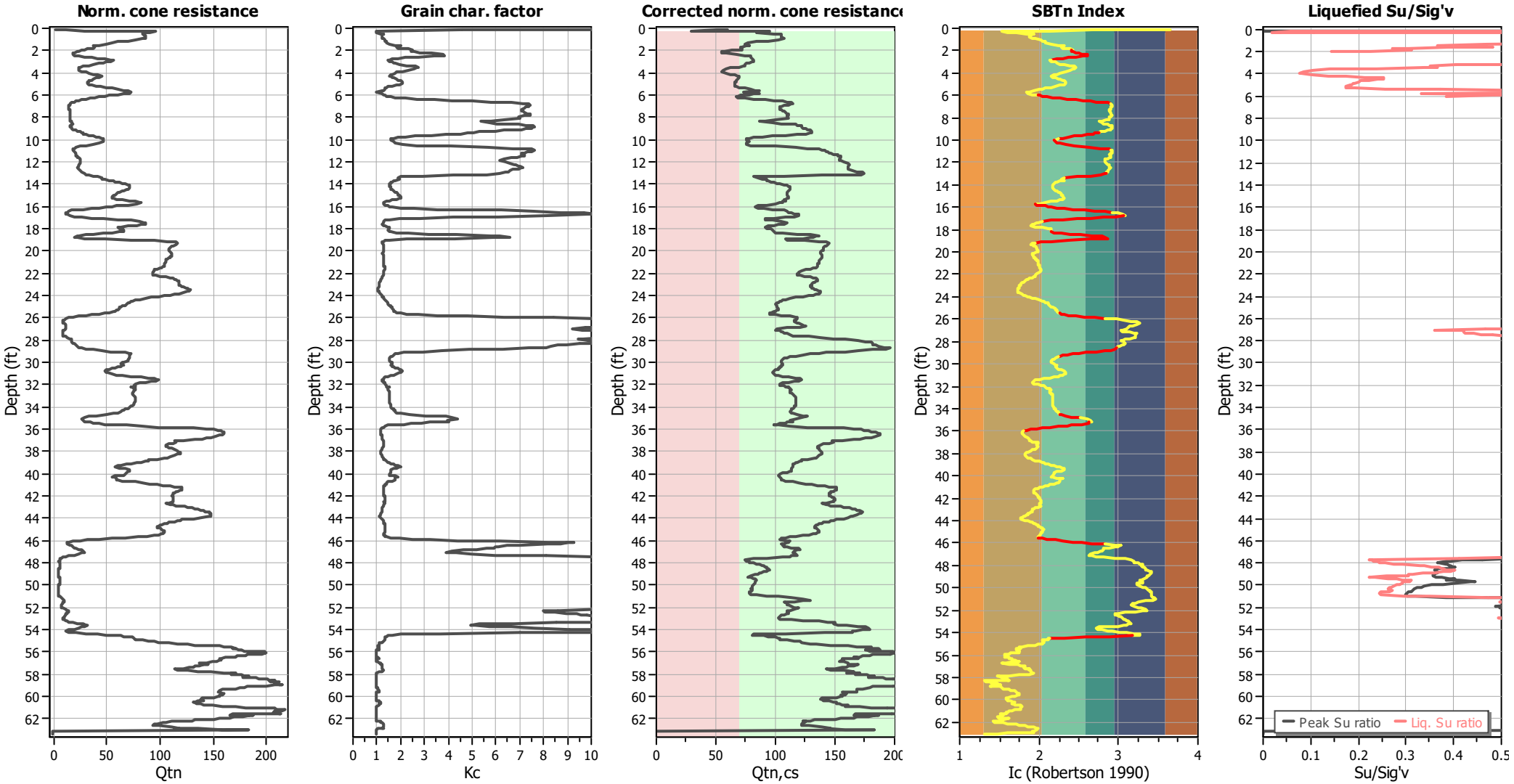




**Input parameters and analysis data**

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.12 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.42 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

## Check for strength loss plots (Robertson (2010))




### Input parameters and analysis data

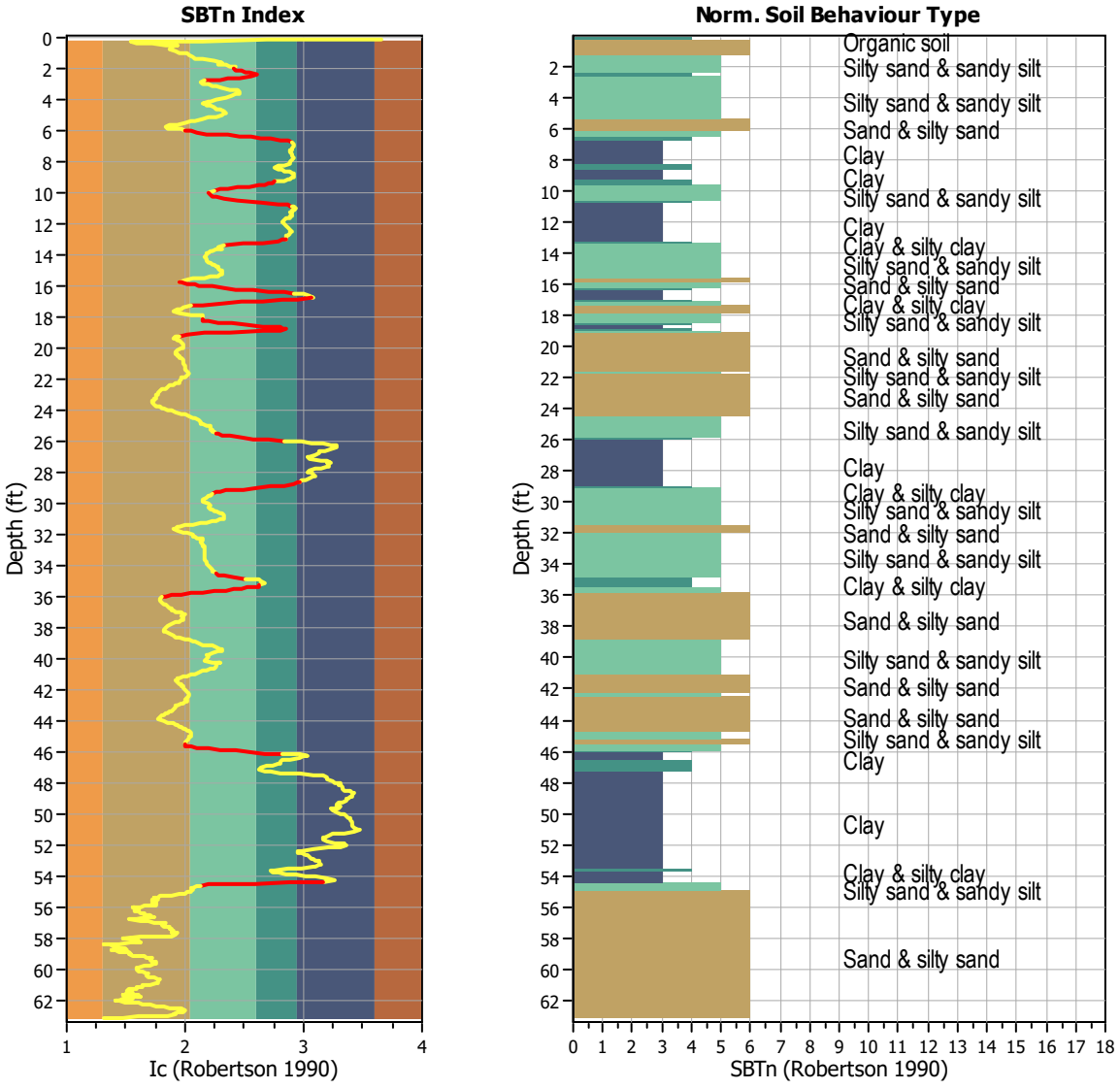
| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.12 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.42 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

# TRANSITION LAYER DETECTION ALGORITHM REPORT
## Summary Details & Plots

**Short description**

The software will delete data when the cone is in transition from either clay to sand or vise-versa. To do this the software requires a range of $I_c$ values over which the transition will be defined (typically somewhere between $1.80 < I_c < 3.0$) and a rate of change of $I_c$. Transitions typically occur when the rate of change of $I_c$ is fast (i.e. delta $I_c$ is small).

The $SBT_n$ plot below, displays in red the detected transition layers based on the parameters listed below the graphs.




| Transition layer algorithm properties | | General statistics | |
|---|---|---|---|
| $I_c$ minimum check value: | 1.70 | Total points in CPT file: | 1063 |
| $I_c$ maximum check value: | 3.00 | Total points excluded: | 146 |
| $I_c$ change ratio value: | 0.0250 | Exclusion percentage: | 13.73% |
| Minimum number of points in layer: | 4 | Number of layers detected: | 16 |

| Transition layer No | Number of points | Depth | $SBT_n$ number | $SBT_n$ description |
|---|---|---|---|---|
| Transition layer 1 | 6 | Start depth: 2.05 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 2.34 (ft) | 4 | Clay & silty clay |
| Transition layer 2 | 8 | Start depth: 2.44 (ft) | 4 | Clay & silty clay |
| | | End depth: 2.89 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 3 | 14 | Start depth: 6.02 (ft) | 6 | Sand & silty sand |
| | | End depth: 6.83 (ft) | 3 | Clay |
| Transition layer 4 | 10 | Start depth: 9.38 (ft) | 4 | Clay & silty clay |
| | | End depth: 9.97 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 5 | 10 | Start depth: 10.20 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 10.89 (ft) | 3 | Clay |
| Transition layer 6 | 6 | Start depth: 13.04 (ft) | 3 | Clay |
| | | End depth: 13.47 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 7 | 13 | Start depth: 15.79 (ft) | 6 | Sand & silty sand |
| | | End depth: 16.54 (ft) | 3 | Clay |
| Transition layer 8 | 8 | Start depth: 16.86 (ft) | 3 | Clay |
| | | End depth: 17.34 (ft) | 6 | Sand & silty sand |
| Transition layer 9 | 9 | Start depth: 18.22 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 18.76 (ft) | 3 | Clay |
| Transition layer 10 | 8 | Start depth: 18.76 (ft) | 3 | Clay |
| | | End depth: 19.24 (ft) | 6 | Sand & silty sand |
| Transition layer 11 | 8 | Start depth: 25.52 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 26.02 (ft) | 3 | Clay |
| Transition layer 12 | 12 | Start depth: 28.67 (ft) | 3 | Clay |
| | | End depth: 29.43 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 13 | 5 | Start depth: 34.55 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 34.90 (ft) | 4 | Clay & silty clay |
| Transition layer 14 | 13 | Start depth: 35.33 (ft) | 4 | Clay & silty clay |
| | | End depth: 36.06 (ft) | 6 | Sand & silty sand |
| Transition layer 15 | 10 | Start depth: 45.56 (ft) | 6 | Sand & silty sand |
| | | End depth: 46.15 (ft) | 3 | Clay |
| Transition layer 16 | 6 | Start depth: 54.34 (ft) | 3 | Clay |
| | | End depth: 54.53 (ft) | 5 | Silty sand & sandy silt |

Start depth: Depth where the transition layer begins
End depth: Depth where the transition layer ends

**:: Field input data ::**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1 | 0.01 | 0.00 | 0.01 | 0.00 | N/A | 120.90 |
| 2 | 0.04 | 0.00 | 0.03 | 0.00 | N/A | 120.90 |
| 3 | 0.09 | 0.00 | 0.06 | 0.00 | N/A | 120.90 |
| 4 | 0.11 | 0.00 | 0.06 | 0.00 | N/A | 120.90 |
| 5 | 0.14 | 0.00 | 0.06 | 0.00 | N/A | 120.90 |
| 6 | 0.14 | 0.00 | 0.06 | 0.00 | 100.00 | 90.58 |
| 7 | 0.18 | 4.04 | 0.06 | 0.00 | 39.81 | 94.62 |
| 8 | 0.23 | 16.88 | 0.06 | 0.00 | 5.00 | 97.10 |
| 9 | 0.24 | 33.66 | 0.06 | 0.00 | 5.00 | 99.09 |
| 10 | 0.28 | 59.84 | 0.07 | 0.00 | 4.02 | 100.70 |
| 11 | 0.33 | 65.70 | 0.08 | 0.00 | 3.32 | 101.83 |
| 12 | 0.38 | 52.26 | 0.09 | 0.00 | 4.29 | 104.01 |
| 13 | 0.42 | 51.86 | 0.16 | 0.00 | 5.00 | 107.23 |
| 14 | 0.47 | 52.21 | 0.28 | 0.00 | 8.85 | 111.04 |
| 15 | 0.51 | 51.45 | 0.45 | 0.00 | 10.39 | 113.09 |
| 16 | 0.52 | 52.16 | 0.45 | 0.00 | 11.07 | 113.95 |
| 17 | 0.57 | 52.66 | 0.42 | 0.00 | 10.65 | 113.68 |
| 18 | 0.61 | 53.17 | 0.40 | 0.00 | 10.18 | 113.34 |
| 19 | 0.67 | 53.88 | 0.39 | 0.00 | 9.91 | 113.08 |
| 20 | 0.73 | 53.37 | 0.38 | 0.00 | 9.72 | 112.99 |
| 21 | 0.81 | 54.28 | 0.39 | -0.10 | 9.70 | 112.87 |
| 22 | 0.86 | 53.22 | 0.37 | -0.10 | 10.78 | 114.14 |
| 23 | 0.98 | 53.07 | 0.60 | -0.10 | 11.85 | 114.82 |
| 24 | 1.05 | 50.14 | 0.53 | -0.10 | 13.47 | 114.97 |
| 25 | 1.15 | 41.44 | 0.44 | -0.10 | 14.02 | 113.60 |
| 26 | 1.24 | 39.42 | 0.37 | -0.10 | 14.97 | 111.74 |
| 27 | 1.34 | 32.75 | 0.28 | -0.10 | 15.41 | 110.26 |
| 28 | 1.43 | 31.24 | 0.27 | 0.00 | 17.53 | 109.89 |
| 29 | 1.53 | 27.90 | 0.36 | 0.00 | 20.70 | 109.99 |
| 30 | 1.58 | 21.43 | 0.33 | 0.00 | 23.01 | 110.04 |
| 31 | 1.62 | 24.36 | 0.30 | 0.00 | 23.24 | 109.31 |
| 32 | 1.67 | 24.66 | 0.28 | 0.00 | 21.78 | 108.90 |
| 33 | 1.75 | 24.06 | 0.27 | 0.00 | 21.84 | 108.54 |
| 34 | 1.77 | 22.95 | 0.27 | 0.00 | 22.45 | 108.33 |
| 35 | 1.81 | 22.24 | 0.27 | 0.00 | 23.98 | 108.08 |
| 36 | 1.86 | 19.31 | 0.26 | 0.00 | 25.81 | 107.68 |
| 37 | 1.91 | 17.59 | 0.25 | 0.00 | 27.51 | 107.00 |
| 38 | 1.95 | 16.98 | 0.22 | 0.00 | 27.58 | 105.88 |
| 39 | 2.00 | 16.38 | 0.17 | 0.00 | 26.85 | 104.31 |
| 40 | 2.05 | 15.26 | 0.13 | 0.00 | 26.79 | 102.37 |
| 41 | 2.11 | 13.04 | 0.11 | 0.00 | 27.77 | 100.94 |
| 42 | 2.20 | 12.23 | 0.11 | 0.00 | 29.43 | 100.17 |
| 43 | 2.24 | 11.73 | 0.11 | 0.00 | 30.90 | 100.15 |
| 44 | 2.29 | 11.22 | 0.11 | 0.00 | 32.65 | 100.53 |
| 45 | 2.34 | 10.82 | 0.13 | 0.00 | 35.39 | 102.57 |
| 46 | 2.44 | 11.93 | 0.22 | 0.00 | 35.96 | 104.47 |
| 47 | 2.48 | 13.75 | 0.24 | 0.00 | 33.48 | 106.65 |
| 48 | 2.58 | 17.99 | 0.29 | 0.00 | 29.16 | 108.19 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 49 | 2.63 | 22.34 | 0.33 | 0.00 | 25.09 | 109.71 |
| 50 | 2.71 | 26.89 | 0.36 | 0.00 | 22.48 | 110.79 |
| 51 | 2.78 | 29.01 | 0.39 | 0.00 | 19.70 | 111.55 |
| 52 | 2.82 | 35.08 | 0.39 | 0.00 | 17.69 | 111.93 |
| 53 | 2.89 | 37.10 | 0.38 | 0.00 | 16.81 | 111.84 |
| 54 | 2.96 | 32.65 | 0.36 | 0.00 | 17.52 | 111.71 |
| 55 | 3.03 | 31.13 | 0.39 | 0.00 | 19.08 | 111.39 |
| 56 | 3.11 | 28.91 | 0.36 | 0.00 | 20.03 | 110.91 |
| 57 | 3.19 | 26.89 | 0.31 | 0.00 | 21.15 | 109.99 |
| 58 | 3.25 | 23.55 | 0.29 | 0.00 | 22.96 | 109.06 |
| 59 | 3.35 | 20.12 | 0.28 | 0.00 | 25.68 | 108.30 |
| 60 | 3.41 | 17.79 | 0.26 | 0.00 | 28.08 | 107.14 |
| 61 | 3.50 | 15.47 | 0.20 | 0.00 | 29.06 | 105.47 |
| 62 | 3.59 | 14.46 | 0.15 | 0.00 | 28.55 | 103.57 |
| 63 | 3.69 | 14.56 | 0.13 | 0.00 | 27.72 | 102.55 |
| 64 | 3.79 | 14.76 | 0.14 | 0.00 | 26.19 | 102.21 |
| 65 | 3.88 | 16.27 | 0.13 | 0.00 | 24.04 | 102.29 |
| 66 | 3.97 | 18.60 | 0.13 | 0.00 | 21.42 | 103.22 |
| 67 | 4.07 | 22.54 | 0.17 | 0.00 | 20.94 | 104.68 |
| 68 | 4.14 | 21.33 | 0.21 | -0.08 | 19.71 | 106.20 |
| 69 | 4.17 | 26.59 | 0.22 | -0.08 | 18.89 | 107.22 |
| 70 | 4.26 | 28.61 | 0.25 | -0.08 | 17.51 | 107.99 |
| 71 | 4.32 | 29.21 | 0.26 | -0.09 | 17.59 | 108.49 |
| 72 | 4.37 | 28.30 | 0.27 | -0.09 | 18.27 | 108.68 |
| 73 | 4.42 | 26.79 | 0.27 | -0.10 | 19.47 | 108.64 |
| 74 | 4.51 | 24.77 | 0.27 | -0.19 | 20.53 | 108.32 |
| 75 | 4.61 | 23.65 | 0.25 | -0.19 | 21.42 | 107.89 |
| 76 | 4.65 | 22.64 | 0.24 | -0.19 | 22.24 | 107.37 |
| 77 | 4.74 | 20.82 | 0.23 | -0.19 | 23.28 | 106.98 |
| 78 | 4.80 | 19.81 | 0.22 | -0.19 | 23.69 | 106.69 |
| 79 | 4.89 | 20.82 | 0.22 | -0.19 | 24.07 | 106.54 |
| 80 | 4.95 | 19.51 | 0.22 | -0.19 | 23.69 | 106.58 |
| 81 | 5.04 | 20.82 | 0.22 | -0.19 | 23.00 | 106.70 |
| 82 | 5.13 | 22.84 | 0.22 | -0.29 | 21.27 | 106.93 |
| 83 | 5.18 | 24.77 | 0.22 | -0.29 | 19.16 | 107.22 |
| 84 | 5.28 | 28.20 | 0.23 | -0.29 | 17.18 | 107.58 |
| 85 | 5.32 | 31.24 | 0.23 | -0.29 | 15.37 | 108.17 |
| 86 | 5.42 | 34.97 | 0.25 | -0.29 | 14.24 | 109.03 |
| 87 | 5.51 | 37.81 | 0.29 | -0.29 | 13.16 | 109.85 |
| 88 | 5.60 | 41.65 | 0.30 | -0.29 | 11.39 | 109.42 |
| 89 | 5.66 | 44.38 | 0.19 | -0.29 | 9.82 | 108.84 |
| 90 | 5.76 | 46.70 | 0.21 | -0.29 | 5.00 | 108.20 |
| 91 | 5.85 | 46.50 | 0.23 | -0.29 | 9.42 | 108.60 |
| 92 | 5.92 | 41.55 | 0.23 | -0.29 | 10.81 | 108.56 |
| 93 | 5.95 | 35.28 | 0.23 | -0.33 | 11.91 | 108.38 |
| 94 | 5.97 | 37.81 | 0.23 | -0.33 | 12.79 | 108.24 |
| 95 | 6.02 | 35.38 | 0.23 | -0.33 | 13.11 | 108.15 |
| 96 | 6.06 | 32.95 | 0.23 | -0.38 | 14.35 | 107.90 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 97 | 6.16 | 29.92 | 0.22 | -0.38 | 15.93 | 107.69 |
| 98 | 6.21 | 27.09 | 0.23 | -0.38 | 18.25 | 107.74 |
| 99 | 6.26 | 23.96 | 0.26 | -0.38 | 21.09 | 108.07 |
| 100 | 6.31 | 21.83 | 0.28 | -0.48 | 24.86 | 108.67 |
| 101 | 6.40 | 19.10 | 0.33 | -0.48 | 28.84 | 109.09 |
| 102 | 6.44 | 16.78 | 0.34 | -0.48 | 33.47 | 109.42 |
| 103 | 6.52 | 14.86 | 0.37 | -0.48 | 37.59 | 109.55 |
| 104 | 6.57 | 13.75 | 0.38 | -0.48 | 41.98 | 109.58 |
| 105 | 6.64 | 11.83 | 0.39 | -0.48 | 45.80 | 109.43 |
| 106 | 6.69 | 10.92 | 0.39 | -0.48 | 49.59 | 109.18 |
| 107 | 6.78 | 10.21 | 0.38 | -0.48 | 51.74 | 108.94 |
| 108 | 6.83 | 9.91 | 0.38 | -0.48 | 52.73 | 108.51 |
| 109 | 6.92 | 9.60 | 0.34 | -0.48 | 53.03 | 108.02 |
| 110 | 6.97 | 9.30 | 0.32 | -0.57 | 52.79 | 107.48 |
| 111 | 7.03 | 9.30 | 0.31 | -0.57 | 52.62 | 107.19 |
| 112 | 7.12 | 9.30 | 0.30 | -0.57 | 52.17 | 107.05 |
| 113 | 7.22 | 9.40 | 0.30 | -0.86 | 51.84 | 107.03 |
| 114 | 7.27 | 9.50 | 0.31 | -0.95 | 51.49 | 107.14 |
| 115 | 7.36 | 9.70 | 0.31 | -1.34 | 51.37 | 107.36 |
| 116 | 7.43 | 9.81 | 0.33 | -2.10 | 51.48 | 107.59 |
| 117 | 7.50 | 9.81 | 0.33 | -2.39 | 51.81 | 107.80 |
| 118 | 7.59 | 9.81 | 0.34 | -2.48 | 52.08 | 107.91 |
| 119 | 7.64 | 9.81 | 0.34 | -2.48 | 52.59 | 107.98 |
| 120 | 7.75 | 9.60 | 0.35 | -2.48 | 53.06 | 108.03 |
| 121 | 7.79 | 9.60 | 0.35 | -2.48 | 52.94 | 108.11 |
| 122 | 7.89 | 10.01 | 0.35 | -2.58 | 51.93 | 108.20 |
| 123 | 7.99 | 10.41 | 0.35 | -2.58 | 51.00 | 108.32 |
| 124 | 8.04 | 10.41 | 0.36 | -2.58 | 50.93 | 108.47 |
| 125 | 8.13 | 10.31 | 0.37 | -2.58 | 51.23 | 108.53 |
| 126 | 8.23 | 10.31 | 0.36 | -2.67 | 48.25 | 107.10 |
| 127 | 8.32 | 10.31 | 0.16 | -2.96 | 45.66 | 105.82 |
| 128 | 8.37 | 10.31 | 0.23 | -3.15 | 43.57 | 105.27 |
| 129 | 8.46 | 11.12 | 0.30 | -3.44 | 45.48 | 107.20 |
| 130 | 8.56 | 11.83 | 0.36 | -3.53 | 46.89 | 108.35 |
| 131 | 8.59 | 11.12 | 0.37 | -3.93 | 48.24 | 108.98 |
| 132 | 8.61 | 11.12 | 0.39 | -3.93 | 49.87 | 109.23 |
| 133 | 8.67 | 11.02 | 0.41 | -3.93 | 51.01 | 109.48 |
| 134 | 8.71 | 10.71 | 0.41 | -4.39 | 52.13 | 109.59 |
| 135 | 8.72 | 10.51 | 0.42 | -4.49 | 53.07 | 109.66 |
| 136 | 8.78 | 10.51 | 0.43 | -4.58 | 53.51 | 109.72 |
| 137 | 8.80 | 10.51 | 0.43 | -4.58 | 53.62 | 109.76 |
| 138 | 8.86 | 10.51 | 0.43 | -4.58 | 53.65 | 109.77 |
| 139 | 8.90 | 10.51 | 0.43 | -4.58 | 53.45 | 109.87 |
| 140 | 8.95 | 10.82 | 0.44 | -4.58 | 53.21 | 110.02 |
| 141 | 8.96 | 10.92 | 0.45 | -4.58 | 52.79 | 110.21 |
| 142 | 9.00 | 11.12 | 0.45 | -4.58 | 52.52 | 110.39 |
| 143 | 9.05 | 11.32 | 0.47 | -4.49 | 52.13 | 110.62 |
| 144 | 9.09 | 11.62 | 0.48 | -4.49 | 51.55 | 110.83 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 145 | 9.10 | 11.93 | 0.48 | -4.49 | 50.65 | 111.10 |
| 146 | 9.14 | 12.53 | 0.51 | -4.49 | 49.64 | 111.46 |
| 147 | 9.20 | 13.14 | 0.53 | -4.49 | 48.16 | 111.91 |
| 148 | 9.24 | 14.15 | 0.55 | -4.49 | 46.46 | 112.37 |
| 149 | 9.29 | 15.16 | 0.57 | -4.49 | 44.67 | 112.78 |
| 150 | 9.31 | 15.97 | 0.59 | -4.49 | 43.27 | 113.20 |
| 151 | 9.38 | 16.78 | 0.62 | -4.58 | 42.21 | 113.51 |
| 152 | 9.41 | 17.29 | 0.63 | -4.77 | 40.91 | 113.67 |
| 153 | 9.47 | 18.09 | 0.60 | -5.15 | 39.32 | 113.64 |
| 154 | 9.53 | 18.90 | 0.58 | -5.25 | 36.22 | 113.38 |
| 155 | 9.62 | 21.23 | 0.52 | -5.34 | 32.67 | 113.07 |
| 156 | 9.67 | 23.35 | 0.49 | -5.54 | 28.33 | 112.63 |
| 157 | 9.77 | 26.79 | 0.43 | -5.92 | 25.15 | 112.27 |
| 158 | 9.81 | 28.81 | 0.41 | -3.34 | 22.18 | 111.77 |
| 159 | 9.90 | 31.03 | 0.36 | -1.43 | 20.30 | 111.35 |
| 160 | 9.97 | 32.25 | 0.34 | -1.24 | 18.94 | 111.09 |
| 161 | 10.06 | 33.56 | 0.35 | -1.24 | 18.88 | 111.19 |
| 162 | 10.20 | 32.14 | 0.37 | -1.24 | 19.84 | 111.65 |
| 163 | 10.30 | 30.73 | 0.42 | -1.34 | 21.09 | 110.81 |
| 164 | 10.44 | 25.07 | 0.26 | -1.34 | 23.79 | 110.16 |
| 165 | 10.54 | 20.82 | 0.33 | -1.43 | 28.52 | 109.42 |
| 166 | 10.63 | 16.27 | 0.39 | -1.40 | 37.17 | 110.42 |
| 167 | 10.74 | 12.64 | 0.49 | -1.40 | 45.02 | 111.01 |
| 168 | 10.78 | 12.64 | 0.51 | -1.37 | 49.84 | 111.50 |
| 169 | 10.83 | 12.64 | 0.53 | -1.37 | 50.94 | 111.75 |
| 170 | 10.88 | 12.23 | 0.55 | -1.34 | 52.01 | 111.93 |
| 171 | 10.89 | 12.13 | 0.55 | -1.24 | 53.26 | 112.19 |
| 172 | 10.97 | 12.13 | 0.60 | -1.24 | 53.74 | 112.49 |
| 173 | 11.02 | 12.53 | 0.61 | -1.15 | 53.76 | 112.83 |
| 174 | 11.07 | 12.84 | 0.63 | -1.15 | 53.28 | 113.04 |
| 175 | 11.11 | 13.04 | 0.63 | -1.15 | 52.89 | 113.23 |
| 176 | 11.16 | 13.34 | 0.65 | -1.05 | 52.38 | 113.46 |
| 177 | 11.21 | 13.85 | 0.67 | -1.15 | 51.91 | 113.73 |
| 178 | 11.26 | 14.15 | 0.69 | -1.15 | 51.53 | 114.03 |
| 179 | 11.30 | 14.46 | 0.72 | -1.24 | 51.55 | 114.31 |
| 180 | 11.36 | 14.56 | 0.74 | -1.24 | 51.71 | 114.56 |
| 181 | 11.40 | 14.66 | 0.76 | -1.24 | 51.84 | 114.75 |
| 182 | 11.45 | 14.86 | 0.77 | -1.24 | 51.87 | 114.90 |
| 183 | 11.50 | 14.96 | 0.78 | -1.24 | 51.65 | 115.06 |
| 184 | 11.55 | 15.36 | 0.79 | -1.24 | 51.39 | 115.24 |
| 185 | 11.60 | 15.67 | 0.81 | -1.24 | 50.61 | 115.51 |
| 186 | 11.66 | 16.58 | 0.84 | -1.24 | 49.52 | 115.80 |
| 187 | 11.74 | 17.49 | 0.86 | -1.15 | 48.09 | 116.04 |
| 188 | 11.84 | 18.19 | 0.85 | -1.15 | 47.34 | 116.23 |
| 189 | 11.93 | 18.30 | 0.88 | -1.15 | 47.43 | 116.42 |
| 190 | 12.04 | 18.09 | 0.91 | -1.15 | 48.38 | 116.63 |
| 191 | 12.13 | 17.79 | 0.93 | -1.15 | 49.30 | 116.79 |
| 192 | 12.22 | 17.79 | 0.95 | -1.15 | 50.08 | 116.85 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 193 | 12.27 | 17.49 | 0.95 | -1.15 | 50.46 | 116.81 |
| 194 | 12.37 | 17.29 | 0.93 | -1.15 | 51.02 | 116.74 |
| 195 | 12.41 | 17.08 | 0.93 | -1.15 | 51.24 | 116.69 |
| 196 | 12.51 | 17.18 | 0.94 | -1.15 | 51.67 | 116.70 |
| 197 | 12.56 | 16.98 | 0.94 | -1.15 | 51.47 | 116.76 |
| 198 | 12.65 | 17.59 | 0.95 | -1.05 | 50.92 | 116.90 |
| 199 | 12.71 | 18.40 | 0.97 | -1.05 | 49.81 | 117.22 |
| 200 | 12.79 | 19.41 | 1.02 | -1.05 | 49.34 | 117.71 |
| 201 | 12.89 | 19.91 | 1.11 | -0.95 | 48.93 | 118.28 |
| 202 | 12.96 | 21.03 | 1.17 | -0.95 | 48.62 | 118.87 |
| 203 | 13.04 | 22.04 | 1.25 | -0.86 | 47.37 | 119.33 |
| 204 | 13.13 | 23.65 | 1.26 | -1.05 | 44.91 | 119.65 |
| 205 | 13.23 | 26.69 | 1.23 | -1.05 | 37.79 | 118.14 |
| 206 | 13.30 | 30.12 | 0.44 | -1.05 | 30.22 | 116.19 |
| 207 | 13.37 | 34.27 | 0.48 | -1.15 | 23.39 | 113.77 |
| 208 | 13.47 | 38.11 | 0.56 | -1.24 | 22.02 | 114.92 |
| 209 | 13.57 | 42.66 | 0.63 | -2.58 | 22.72 | 115.65 |
| 210 | 13.61 | 35.68 | 0.65 | -1.72 | 23.01 | 116.05 |
| 211 | 13.62 | 39.32 | 0.66 | -1.72 | 22.69 | 116.34 |
| 212 | 13.68 | 45.99 | 0.69 | -1.72 | 21.00 | 116.83 |
| 213 | 13.73 | 47.71 | 0.72 | -1.91 | 19.82 | 117.32 |
| 214 | 13.77 | 49.83 | 0.75 | -1.72 | 19.40 | 117.84 |
| 215 | 13.87 | 52.77 | 0.82 | -1.72 | 18.89 | 118.41 |
| 216 | 13.93 | 56.20 | 0.87 | -1.72 | 18.50 | 119.05 |
| 217 | 14.00 | 58.43 | 0.92 | -1.72 | 18.11 | 119.60 |
| 218 | 14.06 | 61.05 | 0.98 | -1.72 | 17.96 | 120.09 |
| 219 | 14.12 | 62.47 | 1.02 | -1.81 | 17.96 | 120.53 |
| 220 | 14.21 | 63.18 | 1.08 | -1.81 | 18.11 | 120.86 |
| 221 | 14.25 | 63.58 | 1.10 | -1.81 | 18.27 | 121.08 |
| 222 | 14.35 | 63.68 | 1.12 | -1.81 | 18.46 | 121.16 |
| 223 | 14.45 | 62.87 | 1.11 | -1.72 | 18.76 | 121.14 |
| 224 | 14.50 | 61.36 | 1.11 | -1.72 | 19.22 | 121.02 |
| 225 | 14.59 | 59.03 | 1.09 | -1.72 | 19.83 | 120.88 |
| 226 | 14.64 | 57.21 | 1.08 | -1.72 | 20.46 | 120.71 |
| 227 | 14.74 | 55.39 | 1.07 | -1.72 | 21.03 | 120.57 |
| 228 | 14.80 | 54.28 | 1.06 | -1.72 | 21.53 | 120.45 |
| 229 | 14.88 | 53.07 | 1.06 | -1.72 | 21.95 | 120.36 |
| 230 | 14.97 | 52.26 | 1.05 | -1.72 | 22.36 | 120.29 |
| 231 | 15.05 | 51.45 | 1.05 | -1.72 | 22.79 | 120.27 |
| 232 | 15.13 | 50.64 | 1.07 | -1.72 | 23.16 | 120.29 |
| 233 | 15.21 | 50.54 | 1.07 | -1.72 | 23.18 | 120.30 |
| 234 | 15.28 | 51.76 | 1.05 | -1.81 | 22.62 | 120.34 |
| 235 | 15.36 | 54.48 | 1.06 | -1.91 | 21.45 | 120.45 |
| 236 | 15.41 | 59.13 | 1.06 | -1.91 | 19.60 | 120.68 |
| 237 | 15.50 | 67.12 | 1.06 | -2.00 | 17.73 | 120.96 |
| 238 | 15.55 | 72.98 | 1.07 | -2.48 | 14.99 | 120.29 |
| 239 | 15.65 | 78.34 | 0.69 | -2.00 | 12.97 | 119.36 |
| 240 | 15.71 | 79.55 | 0.68 | -2.29 | 11.49 | 118.07 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 241 | 15.79 | 76.72 | 0.66 | -2.00 | 11.94 | 117.74 |
| 242 | 15.89 | 69.04 | 0.63 | -1.81 | 13.58 | 117.28 |
| 243 | 15.90 | 56.20 | 0.63 | -1.93 | 15.06 | 116.86 |
| 244 | 15.94 | 58.12 | 0.62 | -1.93 | 16.49 | 116.54 |
| 245 | 16.00 | 54.38 | 0.60 | -1.93 | 17.46 | 116.33 |
| 246 | 16.06 | 47.31 | 0.61 | -1.81 | 19.74 | 116.08 |
| 247 | 16.14 | 41.44 | 0.62 | -1.81 | 23.40 | 115.82 |
| 248 | 16.19 | 33.56 | 0.63 | -1.81 | 27.82 | 115.40 |
| 249 | 16.26 | 27.39 | 0.61 | -1.81 | 33.97 | 114.66 |
| 250 | 16.33 | 20.42 | 0.58 | -1.81 | 40.60 | 113.74 |
| 251 | 16.38 | 16.88 | 0.54 | -1.81 | 47.75 | 112.60 |
| 252 | 16.47 | 13.95 | 0.48 | -1.81 | 53.58 | 111.81 |
| 253 | 16.54 | 12.53 | 0.50 | -1.81 | 58.20 | 111.16 |
| 254 | 16.62 | 11.52 | 0.48 | -1.81 | 61.95 | 111.19 |
| 255 | 16.70 | 11.42 | 0.52 | -1.81 | 63.86 | 111.41 |
| 256 | 16.76 | 11.73 | 0.55 | -1.72 | 62.72 | 112.21 |
| 257 | 16.86 | 13.75 | 0.62 | -1.24 | 55.66 | 113.21 |
| 258 | 16.90 | 19.21 | 0.65 | -0.86 | 46.99 | 114.45 |
| 259 | 16.98 | 25.07 | 0.71 | -0.29 | 37.95 | 115.60 |
| 260 | 17.05 | 33.26 | 0.75 | 0.38 | 29.58 | 116.88 |
| 261 | 17.14 | 47.91 | 0.80 | 0.67 | 22.70 | 117.88 |
| 262 | 17.20 | 61.46 | 0.80 | -1.15 | 17.44 | 118.65 |
| 263 | 17.29 | 75.11 | 0.79 | -1.91 | 14.33 | 119.10 |
| 264 | 17.34 | 82.59 | 0.81 | -1.91 | 12.57 | 119.56 |
| 265 | 17.44 | 88.35 | 0.86 | -1.91 | 12.10 | 120.15 |
| 266 | 17.50 | 89.76 | 0.95 | -1.91 | 11.17 | 119.56 |
| 267 | 17.58 | 88.65 | 0.59 | -1.91 | 10.61 | 118.74 |
| 268 | 17.64 | 86.12 | 0.61 | -1.91 | 10.36 | 117.68 |
| 269 | 17.75 | 80.36 | 0.68 | -1.91 | 11.68 | 118.09 |
| 270 | 17.82 | 75.11 | 0.73 | -1.91 | 14.12 | 118.45 |
| 271 | 17.89 | 60.85 | 0.79 | -1.94 | 16.11 | 118.58 |
| 272 | 17.89 | 62.17 | 0.79 | -1.94 | 17.43 | 118.74 |
| 273 | 17.96 | 65.10 | 0.82 | -1.94 | 17.29 | 119.02 |
| 274 | 18.02 | 65.00 | 0.86 | -1.91 | 17.38 | 119.46 |
| 275 | 18.07 | 66.01 | 0.93 | -2.00 | 17.40 | 119.89 |
| 276 | 18.17 | 69.65 | 0.96 | -2.00 | 17.19 | 120.21 |
| 277 | 18.22 | 70.76 | 0.96 | -2.10 | 17.38 | 120.34 |
| 278 | 18.30 | 65.91 | 0.98 | -2.10 | 18.63 | 120.33 |
| 279 | 18.36 | 59.03 | 1.01 | -2.10 | 21.57 | 120.25 |
| 280 | 18.42 | 48.22 | 1.05 | -2.00 | 25.82 | 120.15 |
| 281 | 18.50 | 40.43 | 1.10 | -2.00 | 31.86 | 119.89 |
| 282 | 18.56 | 31.34 | 1.11 | -2.00 | 38.47 | 119.44 |
| 283 | 18.62 | 25.47 | 1.08 | -2.00 | 45.73 | 118.51 |
| 284 | 18.69 | 20.42 | 0.95 | -2.00 | 47.28 | 117.84 |
| 285 | 18.76 | 26.08 | 0.90 | -2.00 | 49.35 | 117.26 |
| 286 | 18.84 | 20.22 | 0.92 | -1.91 | 46.20 | 117.56 |
| 287 | 18.89 | 26.69 | 0.98 | -1.81 | 38.13 | 118.84 |
| 288 | 18.98 | 48.82 | 1.15 | -1.53 | 25.23 | 120.89 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 289 | 19.05 | 83.09 | 1.28 | -1.15 | 17.63 | 122.71 |
| 290 | 19.12 | 103.41 | 1.40 | -2.00 | 13.45 | 123.88 |
| 291 | 19.18 | 118.98 | 1.44 | -2.19 | 11.63 | 124.47 |
| 292 | 19.24 | 125.34 | 1.44 | -2.00 | 10.70 | 124.75 |
| 293 | 19.32 | 127.97 | 1.47 | -2.10 | 10.50 | 124.90 |
| 294 | 19.38 | 127.06 | 1.50 | -2.00 | 10.78 | 125.14 |
| 295 | 19.46 | 124.64 | 1.59 | -2.00 | 11.28 | 125.37 |
| 296 | 19.54 | 122.82 | 1.64 | -2.10 | 11.83 | 125.56 |
| 297 | 19.62 | 120.49 | 1.66 | -2.10 | 12.18 | 125.64 |
| 298 | 19.70 | 119.78 | 1.66 | -2.10 | 12.37 | 125.65 |
| 299 | 19.80 | 119.78 | 1.65 | -2.10 | 12.42 | 125.63 |
| 300 | 19.85 | 119.78 | 1.65 | -2.10 | 12.39 | 125.59 |
| 301 | 19.94 | 119.78 | 1.64 | -2.10 | 12.46 | 125.66 |
| 302 | 20.03 | 120.39 | 1.70 | -2.10 | 11.91 | 125.24 |
| 303 | 20.13 | 122.11 | 1.36 | -2.10 | 11.37 | 124.85 |
| 304 | 20.19 | 123.12 | 1.38 | -2.10 | 10.74 | 124.42 |
| 305 | 20.29 | 124.84 | 1.43 | -2.10 | 10.87 | 124.64 |
| 306 | 20.39 | 124.28 | 1.47 | -2.15 | 11.01 | 124.81 |
| 307 | 20.43 | 124.49 | 1.48 | -2.15 | 11.19 | 124.93 |
| 308 | 20.47 | 123.73 | 1.51 | -2.15 | 11.32 | 125.04 |
| 309 | 20.52 | 124.13 | 1.54 | -2.19 | 11.55 | 125.23 |
| 310 | 20.61 | 124.13 | 1.61 | -2.19 | 11.79 | 125.44 |
| 311 | 20.66 | 123.73 | 1.64 | -2.19 | 12.08 | 125.60 |
| 312 | 20.71 | 122.01 | 1.65 | -2.19 | 12.32 | 125.65 |
| 313 | 20.77 | 121.00 | 1.66 | -2.19 | 12.55 | 125.68 |
| 314 | 20.85 | 120.09 | 1.67 | -2.19 | 12.67 | 125.69 |
| 315 | 20.91 | 120.59 | 1.67 | -2.19 | 12.69 | 125.72 |
| 316 | 21.00 | 121.30 | 1.67 | -2.19 | 12.68 | 125.74 |
| 317 | 21.05 | 121.20 | 1.68 | -2.19 | 12.72 | 125.75 |
| 318 | 21.11 | 120.39 | 1.68 | -2.19 | 12.82 | 125.76 |
| 319 | 21.19 | 119.99 | 1.69 | -2.19 | 12.93 | 125.79 |
| 320 | 21.24 | 120.19 | 1.70 | -2.19 | 12.99 | 125.84 |
| 321 | 21.34 | 120.59 | 1.71 | -2.19 | 13.03 | 125.87 |
| 322 | 21.39 | 120.49 | 1.71 | -2.19 | 13.11 | 125.88 |
| 323 | 21.48 | 118.98 | 1.71 | -2.19 | 13.31 | 125.83 |
| 324 | 21.53 | 116.65 | 1.70 | -2.19 | 13.57 | 125.71 |
| 325 | 21.64 | 113.62 | 1.66 | -2.19 | 13.84 | 125.53 |
| 326 | 21.72 | 111.39 | 1.62 | -2.19 | 13.51 | 124.89 |
| 327 | 21.81 | 110.48 | 1.31 | -2.19 | 12.90 | 124.15 |
| 328 | 21.89 | 110.59 | 1.24 | -2.29 | 12.18 | 123.40 |
| 329 | 21.97 | 110.59 | 1.21 | -2.29 | 11.93 | 123.16 |
| 330 | 22.05 | 110.99 | 1.19 | -2.29 | 11.80 | 123.03 |
| 331 | 22.12 | 110.94 | 1.17 | -2.34 | 11.72 | 122.95 |
| 332 | 22.13 | 110.94 | 1.17 | -2.34 | 11.70 | 122.93 |
| 333 | 22.18 | 110.89 | 1.18 | -2.34 | 11.57 | 122.96 |
| 334 | 22.22 | 114.22 | 1.18 | -2.39 | 11.23 | 123.02 |
| 335 | 22.28 | 118.47 | 1.17 | -2.39 | 10.74 | 123.13 |
| 336 | 22.33 | 122.82 | 1.19 | -2.39 | 10.28 | 123.26 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 337 | 22.38 | 126.46 | 1.20 | -2.39 | 9.90 | 123.41 |
| 338 | 22.41 | 129.89 | 1.21 | -2.39 | 9.50 | 123.49 |
| 339 | 22.51 | 133.73 | 1.20 | -2.39 | 9.14 | 123.51 |
| 340 | 22.56 | 135.96 | 1.18 | -2.39 | 8.79 | 123.46 |
| 341 | 22.61 | 137.98 | 1.16 | -2.39 | 8.51 | 123.37 |
| 342 | 22.65 | 139.19 | 1.14 | -2.39 | 8.23 | 123.24 |
| 343 | 22.71 | 140.61 | 1.11 | -2.39 | 8.00 | 123.09 |
| 344 | 22.76 | 141.21 | 1.08 | -2.39 | 7.75 | 122.87 |
| 345 | 22.85 | 141.72 | 1.03 | -2.39 | 7.57 | 122.67 |
| 346 | 22.89 | 141.82 | 1.02 | -2.39 | 7.41 | 122.48 |
| 347 | 22.99 | 141.92 | 1.00 | -2.39 | 7.34 | 122.38 |
| 348 | 23.04 | 141.92 | 0.99 | -2.39 | 7.26 | 122.31 |
| 349 | 23.12 | 142.83 | 0.99 | -2.39 | 7.17 | 122.30 |
| 350 | 23.18 | 145.06 | 0.99 | -2.39 | 7.02 | 122.35 |
| 351 | 23.24 | 147.58 | 1.00 | -2.39 | 6.88 | 122.47 |
| 352 | 23.33 | 150.11 | 1.02 | -2.39 | 6.74 | 122.61 |
| 353 | 23.38 | 153.24 | 1.03 | -2.48 | 6.65 | 122.79 |
| 354 | 23.47 | 155.06 | 1.05 | -2.48 | 6.58 | 122.94 |
| 355 | 23.52 | 156.58 | 1.07 | -2.48 | 6.66 | 123.16 |
| 356 | 23.61 | 156.07 | 1.12 | -2.48 | 6.86 | 123.36 |
| 357 | 23.68 | 153.95 | 1.15 | -2.48 | 7.23 | 123.57 |
| 358 | 23.76 | 150.31 | 1.19 | -2.48 | 7.68 | 123.69 |
| 359 | 23.83 | 145.46 | 1.20 | -2.48 | 8.20 | 123.74 |
| 360 | 23.90 | 140.61 | 1.21 | -2.48 | 8.71 | 123.73 |
| 361 | 23.97 | 136.36 | 1.22 | -2.48 | 9.28 | 123.71 |
| 362 | 24.05 | 131.21 | 1.23 | -2.48 | 9.97 | 123.67 |
| 363 | 24.10 | 123.63 | 1.24 | -2.48 | 10.81 | 123.59 |
| 364 | 24.19 | 116.75 | 1.24 | -2.48 | 11.87 | 123.44 |
| 365 | 24.27 | 108.16 | 1.24 | -2.48 | 12.89 | 123.28 |
| 366 | 24.34 | 103.31 | 1.24 | -2.48 | 13.89 | 123.13 |
| 367 | 24.43 | 98.56 | 1.23 | -2.58 | 14.65 | 123.04 |
| 368 | 24.48 | 96.03 | 1.24 | -2.58 | 15.39 | 123.04 |
| 369 | 24.57 | 93.50 | 1.28 | -2.77 | 16.07 | 123.15 |
| 370 | 24.62 | 91.89 | 1.32 | -2.86 | 16.33 | 122.96 |
| 371 | 24.72 | 90.17 | 1.17 | -3.15 | 16.56 | 122.82 |
| 372 | 24.81 | 89.06 | 1.23 | -3.53 | 16.74 | 122.68 |
| 373 | 24.86 | 88.15 | 1.26 | -3.91 | 17.34 | 122.92 |
| 374 | 24.95 | 86.83 | 1.31 | -4.58 | 18.26 | 123.01 |
| 375 | 25.01 | 80.77 | 1.32 | -5.22 | 19.01 | 123.05 |
| 376 | 25.02 | 81.12 | 1.32 | -5.22 | 19.54 | 123.03 |
| 377 | 25.05 | 81.47 | 1.33 | -5.22 | 19.39 | 123.10 |
| 378 | 25.11 | 83.09 | 1.34 | -6.01 | 19.35 | 123.16 |
| 379 | 25.15 | 82.69 | 1.35 | -6.39 | 19.38 | 123.22 |
| 380 | 25.21 | 82.08 | 1.36 | -6.87 | 19.61 | 123.23 |
| 381 | 25.25 | 81.27 | 1.36 | -7.16 | 19.86 | 123.21 |
| 382 | 25.30 | 80.16 | 1.35 | -7.45 | 20.12 | 123.10 |
| 383 | 25.40 | 78.24 | 1.31 | -8.49 | 20.43 | 122.88 |
| 384 | 25.45 | 76.01 | 1.27 | -8.88 | 20.89 | 122.49 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 385 | 25.52 | 71.57 | 1.20 | -9.54 | 21.58 | 121.99 |
| 386 | 25.60 | 66.92 | 1.12 | -9.93 | 23.10 | 121.43 |
| 387 | 25.66 | 58.73 | 1.10 | -10.40 | 25.37 | 120.85 |
| 388 | 25.74 | 51.45 | 1.05 | -10.50 | 29.28 | 120.35 |
| 389 | 25.80 | 42.15 | 1.06 | -10.69 | 34.11 | 119.74 |
| 390 | 25.88 | 34.67 | 1.01 | -10.79 | 40.89 | 119.02 |
| 391 | 25.94 | 26.89 | 0.97 | -10.79 | 48.17 | 118.23 |
| 392 | 26.02 | 22.64 | 0.95 | -10.79 | 56.96 | 117.39 |
| 393 | 26.09 | 19.00 | 0.88 | -10.79 | 63.54 | 116.56 |
| 394 | 26.17 | 16.38 | 0.82 | -10.69 | 70.12 | 115.68 |
| 395 | 26.23 | 14.15 | 0.78 | -10.69 | 75.56 | 115.05 |
| 396 | 26.29 | 13.44 | 0.77 | -10.69 | 79.02 | 114.78 |
| 397 | 26.37 | 13.55 | 0.78 | -10.50 | 78.84 | 114.95 |
| 398 | 26.46 | 14.66 | 0.82 | -10.50 | 75.43 | 115.54 |
| 399 | 26.55 | 17.08 | 0.90 | -10.40 | 71.32 | 116.21 |
| 400 | 26.60 | 18.40 | 0.93 | -10.31 | 68.23 | 116.84 |
| 401 | 26.70 | 19.10 | 0.98 | -10.31 | 67.29 | 117.29 |
| 402 | 26.78 | 19.31 | 1.04 | -10.31 | 67.28 | 117.57 |
| 403 | 26.87 | 19.31 | 1.03 | -10.31 | 65.46 | 116.94 |
| 404 | 26.94 | 19.31 | 0.72 | -10.31 | 62.21 | 115.56 |
| 405 | 27.03 | 19.00 | 0.56 | -10.31 | 60.24 | 114.24 |
| 406 | 27.13 | 17.99 | 0.66 | -10.31 | 61.72 | 113.90 |
| 407 | 27.18 | 16.98 | 0.66 | -10.31 | 68.38 | 114.01 |
| 408 | 27.27 | 13.14 | 0.67 | -10.20 | 73.05 | 113.89 |
| 409 | 27.32 | 14.15 | 0.68 | -10.20 | 75.75 | 113.91 |
| 410 | 27.37 | 15.16 | 0.70 | -10.20 | 73.86 | 114.24 |
| 411 | 27.41 | 15.16 | 0.73 | -10.12 | 73.36 | 114.52 |
| 412 | 27.46 | 15.16 | 0.75 | -10.12 | 74.03 | 114.74 |
| 413 | 27.51 | 15.16 | 0.76 | -10.02 | 74.31 | 115.06 |
| 414 | 27.61 | 15.67 | 0.82 | -10.02 | 73.92 | 115.57 |
| 415 | 27.66 | 16.68 | 0.89 | -9.93 | 72.75 | 116.57 |
| 416 | 27.73 | 18.50 | 1.06 | -9.93 | 69.00 | 118.04 |
| 417 | 27.80 | 23.15 | 1.28 | -9.93 | 64.92 | 119.84 |
| 418 | 27.88 | 27.09 | 1.57 | -9.93 | 61.75 | 121.59 |
| 419 | 27.96 | 29.72 | 1.88 | -9.93 | 61.15 | 122.86 |
| 420 | 28.04 | 29.82 | 2.03 | -10.02 | 62.65 | 123.82 |
| 421 | 28.12 | 29.21 | 2.29 | -10.02 | 64.46 | 124.33 |
| 422 | 28.18 | 29.31 | 2.33 | -10.02 | 64.94 | 124.77 |
| 423 | 28.27 | 31.24 | 2.40 | -10.02 | 63.60 | 125.01 |
| 424 | 28.32 | 32.85 | 2.43 | -10.02 | 61.44 | 125.31 |
| 425 | 28.42 | 34.87 | 2.48 | -10.02 | 59.28 | 125.61 |
| 426 | 28.47 | 37.40 | 2.56 | -10.02 | 57.63 | 126.07 |
| 427 | 28.61 | 39.22 | 2.75 | -10.02 | 56.63 | 126.53 |
| 428 | 28.67 | 40.43 | 2.86 | -10.02 | 55.75 | 127.05 |
| 429 | 28.75 | 43.16 | 3.02 | -10.02 | 52.70 | 127.47 |
| 430 | 28.81 | 47.71 | 3.06 | -9.93 | 47.96 | 127.92 |
| 431 | 28.90 | 58.12 | 3.04 | -9.83 | 41.37 | 128.35 |
| 432 | 29.00 | 72.07 | 3.02 | -9.93 | 35.34 | 128.76 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 433 | 29.05 | 82.28 | 3.02 | -10.02 | 30.50 | 129.11 |
| 434 | 29.10 | 94.11 | 3.00 | -10.21 | 27.19 | 129.31 |
| 435 | 29.15 | 101.79 | 2.92 | -10.31 | 24.40 | 129.24 |
| 436 | 29.24 | 107.76 | 2.68 | -10.98 | 22.48 | 128.87 |
| 437 | 29.29 | 108.56 | 2.46 | -12.31 | 21.04 | 128.21 |
| 438 | 29.37 | 106.54 | 2.19 | -13.08 | 20.19 | 127.50 |
| 439 | 29.43 | 105.43 | 2.02 | -13.84 | 19.39 | 126.74 |
| 440 | 29.53 | 104.93 | 1.82 | -14.22 | 18.65 | 126.11 |
| 441 | 29.62 | 104.93 | 1.70 | -13.79 | 18.12 | 125.67 |
| 442 | 29.68 | 104.93 | 1.71 | -13.74 | 17.48 | 125.18 |
| 443 | 29.80 | 104.93 | 1.48 | -9.45 | 17.32 | 124.98 |
| 444 | 29.91 | 103.81 | 1.57 | -4.29 | 17.30 | 124.83 |
| 445 | 30.00 | 102.90 | 1.62 | -3.72 | 18.66 | 124.98 |
| 446 | 30.07 | 90.77 | 1.65 | -4.39 | 19.24 | 125.07 |
| 447 | 30.15 | 98.76 | 1.66 | -4.39 | 19.60 | 125.10 |
| 448 | 30.21 | 99.47 | 1.66 | -4.39 | 19.01 | 125.18 |
| 449 | 30.26 | 99.06 | 1.66 | -2.96 | 19.09 | 125.17 |
| 450 | 30.31 | 97.75 | 1.66 | -2.96 | 19.36 | 125.12 |
| 451 | 30.38 | 95.83 | 1.65 | -2.96 | 19.77 | 125.02 |
| 452 | 30.45 | 93.10 | 1.62 | -2.86 | 20.38 | 124.87 |
| 453 | 30.50 | 89.06 | 1.61 | -2.86 | 21.16 | 124.68 |
| 454 | 30.55 | 85.31 | 1.58 | -2.86 | 22.05 | 124.38 |
| 455 | 30.64 | 80.56 | 1.51 | -2.86 | 22.84 | 124.05 |
| 456 | 30.70 | 77.83 | 1.46 | -2.86 | 23.38 | 123.62 |
| 457 | 30.79 | 75.51 | 1.39 | -2.86 | 23.69 | 123.34 |
| 458 | 30.84 | 74.90 | 1.38 | -2.86 | 23.72 | 123.20 |
| 459 | 30.93 | 76.12 | 1.39 | -2.96 | 23.33 | 123.30 |
| 460 | 30.98 | 79.96 | 1.42 | -3.05 | 22.53 | 123.52 |
| 461 | 31.05 | 84.51 | 1.45 | -3.34 | 21.39 | 123.92 |
| 462 | 31.13 | 91.68 | 1.54 | -3.63 | 20.20 | 124.38 |
| 463 | 31.17 | 98.66 | 1.60 | -3.72 | 18.55 | 124.91 |
| 464 | 31.27 | 111.19 | 1.64 | -3.91 | 16.70 | 125.32 |
| 465 | 31.32 | 123.12 | 1.65 | -3.82 | 14.63 | 125.57 |
| 466 | 31.41 | 135.55 | 1.59 | -3.44 | 13.02 | 125.62 |
| 467 | 31.46 | 141.82 | 1.54 | -3.25 | 11.83 | 125.51 |
| 468 | 31.52 | 145.46 | 1.49 | -3.05 | 11.07 | 125.22 |
| 469 | 31.61 | 145.97 | 1.37 | -3.05 | 10.64 | 124.85 |
| 470 | 31.66 | 143.74 | 1.32 | -3.05 | 10.61 | 124.43 |
| 471 | 31.75 | 136.87 | 1.28 | -3.05 | 11.17 | 124.24 |
| 472 | 31.80 | 129.59 | 1.32 | -3.05 | 12.39 | 124.35 |
| 473 | 31.90 | 121.10 | 1.46 | -2.96 | 13.62 | 124.39 |
| 474 | 31.94 | 115.44 | 1.39 | -2.96 | 14.62 | 124.45 |
| 475 | 32.04 | 114.12 | 1.42 | -2.96 | 14.97 | 124.60 |
| 476 | 32.09 | 118.67 | 1.55 | -2.96 | 15.15 | 125.24 |
| 477 | 32.20 | 124.84 | 1.74 | -3.02 | 15.99 | 125.83 |
| 478 | 32.24 | 112.71 | 1.82 | -3.02 | 16.70 | 126.23 |
| 479 | 32.28 | 115.74 | 1.85 | -3.07 | 17.46 | 126.32 |
| 480 | 32.29 | 115.74 | 1.86 | -3.07 | 17.17 | 126.42 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 481 | 32.30 | 118.77 | 1.87 | -3.25 | 16.87 | 126.53 |
| 482 | 32.40 | 122.41 | 1.90 | -3.05 | 16.70 | 126.62 |
| 483 | 32.45 | 120.49 | 1.91 | -3.05 | 16.81 | 126.69 |
| 484 | 32.55 | 118.67 | 1.92 | -3.05 | 17.10 | 126.69 |
| 485 | 32.59 | 118.37 | 1.92 | -3.05 | 17.33 | 126.73 |
| 486 | 32.69 | 118.07 | 1.95 | -3.05 | 17.51 | 126.82 |
| 487 | 32.76 | 118.07 | 1.99 | -2.96 | 17.74 | 126.96 |
| 488 | 32.84 | 118.27 | 2.04 | -2.96 | 17.92 | 127.13 |
| 489 | 32.90 | 118.98 | 2.08 | -2.96 | 18.01 | 127.28 |
| 490 | 32.98 | 119.89 | 2.11 | -2.96 | 17.99 | 127.39 |
| 491 | 33.06 | 121.10 | 2.12 | -3.05 | 17.91 | 127.48 |
| 492 | 33.12 | 122.21 | 2.13 | -3.05 | 17.81 | 127.55 |
| 493 | 33.22 | 123.12 | 2.15 | -3.05 | 17.76 | 127.60 |
| 494 | 33.31 | 123.32 | 2.16 | -3.05 | 17.76 | 127.64 |
| 495 | 33.37 | 123.32 | 2.16 | -2.96 | 17.77 | 127.65 |
| 496 | 33.46 | 123.32 | 2.16 | -2.96 | 17.80 | 127.65 |
| 497 | 33.55 | 123.32 | 2.17 | -2.86 | 17.87 | 127.68 |
| 498 | 33.65 | 123.02 | 2.18 | -2.96 | 17.99 | 127.72 |
| 499 | 33.70 | 122.72 | 2.20 | -2.96 | 18.14 | 127.75 |
| 500 | 33.79 | 122.11 | 2.21 | -2.96 | 18.29 | 127.77 |
| 501 | 33.89 | 121.40 | 2.21 | -3.05 | 18.48 | 127.74 |
| 502 | 33.99 | 119.89 | 2.19 | -3.25 | 18.70 | 127.68 |
| 503 | 34.04 | 118.17 | 2.18 | -3.25 | 18.98 | 127.58 |
| 504 | 34.13 | 115.44 | 2.15 | -3.15 | 19.34 | 127.46 |
| 505 | 34.23 | 113.01 | 2.13 | -3.15 | 19.82 | 127.32 |
| 506 | 34.32 | 109.78 | 2.11 | -3.15 | 20.27 | 127.22 |
| 507 | 34.37 | 108.16 | 2.10 | -3.15 | 20.65 | 127.13 |
| 508 | 34.47 | 106.85 | 2.09 | -3.15 | 21.01 | 127.08 |
| 509 | 34.55 | 104.93 | 2.10 | -3.34 | 21.77 | 127.01 |
| 510 | 34.63 | 98.76 | 2.11 | -3.53 | 23.58 | 126.91 |
| 511 | 34.73 | 86.43 | 2.14 | -3.72 | 26.59 | 126.63 |
| 512 | 34.80 | 74.09 | 2.10 | -3.91 | 31.19 | 126.00 |
| 513 | 34.90 | 57.92 | 1.93 | -3.91 | 36.19 | 125.07 |
| 514 | 35.00 | 49.53 | 1.74 | -3.91 | 37.59 | 123.92 |
| 515 | 35.12 | 57.47 | 1.42 | -3.91 | 38.98 | 122.90 |
| 516 | 35.20 | 44.27 | 1.40 | -3.72 | 36.68 | 122.71 |
| 517 | 35.33 | 57.01 | 1.55 | -3.63 | 36.87 | 123.05 |
| 518 | 35.41 | 59.84 | 1.61 | -4.20 | 32.11 | 123.80 |
| 519 | 35.44 | 73.57 | 1.62 | -6.27 | 29.94 | 124.11 |
| 520 | 35.48 | 72.58 | 1.63 | -6.27 | 26.74 | 124.41 |
| 521 | 35.57 | 84.61 | 1.62 | -7.64 | 24.34 | 124.63 |
| 522 | 35.62 | 95.42 | 1.62 | -8.78 | 20.42 | 125.05 |
| 523 | 35.67 | 116.45 | 1.64 | -9.93 | 17.13 | 125.56 |
| 524 | 35.71 | 134.74 | 1.71 | -10.60 | 14.14 | 126.40 |
| 525 | 35.82 | 161.84 | 1.91 | -11.55 | 12.01 | 127.28 |
| 526 | 35.86 | 183.57 | 2.03 | -11.17 | 10.22 | 128.24 |
| 527 | 35.93 | 210.36 | 2.20 | -6.97 | 8.94 | 129.00 |
| 528 | 36.01 | 229.56 | 2.33 | -4.49 | 8.16 | 129.62 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 529 | 36.06 | 236.44 | 2.41 | -3.63 | 7.85 | 130.06 |
| 530 | 36.12 | 240.88 | 2.52 | -3.34 | 7.80 | 130.37 |
| 531 | 36.18 | 244.83 | 2.59 | -3.15 | 7.84 | 130.72 |
| 532 | 36.25 | 249.58 | 2.73 | -3.15 | 7.88 | 131.01 |
| 533 | 36.30 | 251.80 | 2.80 | -3.15 | 8.05 | 131.37 |
| 534 | 36.39 | 253.32 | 2.97 | -3.25 | 8.23 | 131.64 |
| 535 | 36.44 | 253.52 | 3.03 | -3.15 | 8.49 | 131.92 |
| 536 | 36.53 | 252.51 | 3.13 | -3.25 | 8.77 | 132.08 |
| 537 | 36.59 | 248.57 | 3.20 | -3.15 | 9.37 | 132.44 |
| 538 | 36.68 | 244.22 | 3.54 | -3.25 | 9.70 | 132.41 |
| 539 | 36.75 | 237.75 | 3.16 | -3.25 | 9.93 | 132.25 |
| 540 | 36.83 | 233.20 | 3.05 | -3.25 | 9.92 | 131.78 |
| 541 | 36.90 | 225.32 | 3.02 | -3.25 | 10.25 | 131.57 |
| 542 | 36.97 | 217.43 | 2.99 | -3.25 | 10.78 | 131.42 |
| 543 | 37.02 | 208.94 | 2.97 | -3.25 | 11.95 | 131.17 |
| 544 | 37.04 | 178.92 | 2.94 | -3.25 | 12.56 | 130.99 |
| 545 | 37.08 | 193.37 | 2.89 | -3.25 | 12.85 | 130.76 |
| 546 | 37.17 | 193.68 | 2.77 | -3.25 | 12.27 | 130.55 |
| 547 | 37.27 | 188.42 | 2.66 | -3.25 | 12.36 | 130.20 |
| 548 | 37.37 | 179.93 | 2.56 | -3.15 | 12.63 | 129.85 |
| 549 | 37.42 | 175.89 | 2.48 | -3.34 | 12.60 | 129.41 |
| 550 | 37.51 | 175.94 | 2.26 | -3.34 | 12.21 | 128.93 |
| 551 | 37.58 | 175.99 | 2.11 | -3.34 | 11.53 | 128.42 |
| 552 | 37.66 | 179.12 | 2.01 | -3.34 | 10.87 | 128.00 |
| 553 | 37.76 | 182.05 | 1.88 | -3.34 | 10.12 | 127.61 |
| 554 | 37.85 | 186.70 | 1.77 | -3.25 | 9.43 | 127.24 |
| 555 | 37.93 | 189.63 | 1.70 | -3.25 | 8.90 | 127.02 |
| 556 | 38.04 | 192.67 | 1.69 | -3.25 | 8.61 | 126.94 |
| 557 | 38.13 | 194.59 | 1.69 | -3.25 | 8.49 | 126.94 |
| 558 | 38.18 | 194.49 | 1.69 | -3.25 | 8.53 | 126.96 |
| 559 | 38.28 | 191.76 | 1.70 | -3.25 | 8.89 | 127.11 |
| 560 | 38.37 | 187.61 | 1.81 | -3.25 | 9.47 | 127.34 |
| 561 | 38.47 | 182.96 | 1.89 | -3.25 | 10.26 | 127.74 |
| 562 | 38.57 | 180.23 | 2.05 | -3.25 | 10.93 | 128.06 |
| 563 | 38.62 | 178.11 | 2.10 | -3.25 | 11.67 | 128.38 |
| 564 | 38.72 | 172.15 | 2.20 | -3.25 | 12.92 | 128.49 |
| 565 | 38.78 | 152.33 | 2.27 | -3.26 | 13.99 | 128.58 |
| 566 | 38.81 | 156.28 | 2.28 | -3.25 | 14.73 | 128.61 |
| 567 | 38.86 | 157.49 | 2.30 | -3.25 | 14.82 | 128.67 |
| 568 | 38.91 | 151.93 | 2.32 | -3.25 | 15.34 | 128.70 |
| 569 | 38.95 | 146.77 | 2.36 | -3.25 | 16.32 | 128.70 |
| 570 | 39.05 | 139.19 | 2.39 | -3.25 | 17.39 | 128.67 |
| 571 | 39.09 | 132.82 | 2.40 | -3.34 | 18.62 | 128.58 |
| 572 | 39.14 | 125.24 | 2.40 | -3.34 | 19.92 | 128.44 |
| 573 | 39.24 | 117.26 | 2.39 | -3.34 | 21.20 | 128.25 |
| 574 | 39.29 | 112.20 | 2.35 | -3.34 | 22.35 | 128.02 |
| 575 | 39.39 | 107.15 | 2.30 | -3.34 | 23.14 | 127.89 |
| 576 | 39.43 | 106.24 | 2.34 | -3.34 | 23.05 | 127.94 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 577 | 39.53 | 114.22 | 2.38 | -3.53 | 21.86 | 128.13 |
| 578 | 39.57 | 124.74 | 2.36 | -3.63 | 20.02 | 128.31 |
| 579 | 39.68 | 133.73 | 2.34 | -4.49 | 18.81 | 128.39 |
| 580 | 39.73 | 133.63 | 2.33 | -3.67 | 18.53 | 128.37 |
| 581 | 39.81 | 128.68 | 2.32 | -4.39 | 18.86 | 128.23 |
| 582 | 39.89 | 125.85 | 2.25 | -3.72 | 18.82 | 127.76 |
| 583 | 39.96 | 124.74 | 1.96 | -3.44 | 18.19 | 127.14 |
| 584 | 40.06 | 125.34 | 1.81 | -3.34 | 17.66 | 126.63 |
| 585 | 40.15 | 123.63 | 1.86 | -3.34 | 17.93 | 126.54 |
| 586 | 40.20 | 119.28 | 1.91 | -3.44 | 19.75 | 126.53 |
| 587 | 40.24 | 100.48 | 1.93 | -3.71 | 21.16 | 126.50 |
| 588 | 40.26 | 106.09 | 1.93 | -3.71 | 22.23 | 126.44 |
| 589 | 40.27 | 106.09 | 1.94 | -3.71 | 21.47 | 126.59 |
| 590 | 40.37 | 111.70 | 1.99 | -3.91 | 21.22 | 126.73 |
| 591 | 40.42 | 111.70 | 2.01 | -4.01 | 21.04 | 126.91 |
| 592 | 40.52 | 111.70 | 2.06 | -4.20 | 21.09 | 127.05 |
| 593 | 40.56 | 113.92 | 2.09 | -4.39 | 20.77 | 127.30 |
| 594 | 40.66 | 120.39 | 2.17 | -4.49 | 19.70 | 127.64 |
| 595 | 40.70 | 132.62 | 2.24 | -4.77 | 18.40 | 128.08 |
| 596 | 40.75 | 141.82 | 2.32 | -5.25 | 17.09 | 128.59 |
| 597 | 40.85 | 153.55 | 2.47 | -5.63 | 16.06 | 129.13 |
| 598 | 40.91 | 165.07 | 2.59 | -5.63 | 15.13 | 129.61 |
| 599 | 40.96 | 173.76 | 2.65 | -5.63 | 14.17 | 129.97 |
| 600 | 41.04 | 185.49 | 2.68 | -5.63 | 13.29 | 130.19 |
| 601 | 41.09 | 193.78 | 2.70 | -4.96 | 12.46 | 130.39 |
| 602 | 41.18 | 202.77 | 2.73 | -4.20 | 11.82 | 130.54 |
| 603 | 41.23 | 209.35 | 2.74 | -3.72 | 11.36 | 130.66 |
| 604 | 41.29 | 211.97 | 2.74 | -3.63 | 11.10 | 130.71 |
| 605 | 41.38 | 213.59 | 2.74 | -3.63 | 11.02 | 130.73 |
| 606 | 41.42 | 212.88 | 2.74 | -3.53 | 11.10 | 130.74 |
| 607 | 41.52 | 209.95 | 2.77 | -3.53 | 11.32 | 130.76 |
| 608 | 41.57 | 207.42 | 2.79 | -3.53 | 11.64 | 130.80 |
| 609 | 41.62 | 204.59 | 2.83 | -3.44 | 11.95 | 130.86 |
| 610 | 41.71 | 202.88 | 2.87 | -3.44 | 12.22 | 130.92 |
| 611 | 41.76 | 202.07 | 2.89 | -3.44 | 12.42 | 131.01 |
| 612 | 41.84 | 201.66 | 2.94 | -3.44 | 12.59 | 131.09 |
| 613 | 41.91 | 201.36 | 2.97 | -3.44 | 12.74 | 131.20 |
| 614 | 41.95 | 201.76 | 3.03 | -3.53 | 12.88 | 131.32 |
| 615 | 42.01 | 202.27 | 3.09 | -3.53 | 13.08 | 131.54 |
| 616 | 42.10 | 203.68 | 3.24 | -3.53 | 13.30 | 131.80 |
| 617 | 42.15 | 204.90 | 3.34 | -3.53 | 13.56 | 132.12 |
| 618 | 42.24 | 206.51 | 3.49 | -3.53 | 13.76 | 132.35 |
| 619 | 42.28 | 206.82 | 3.55 | -3.53 | 13.82 | 132.43 |
| 620 | 42.39 | 206.21 | 3.45 | -3.53 | 13.78 | 132.37 |
| 621 | 42.43 | 205.91 | 3.41 | -3.53 | 13.60 | 132.21 |
| 622 | 42.50 | 206.26 | 3.33 | -3.53 | 13.33 | 131.99 |
| 623 | 42.58 | 206.31 | 3.14 | -3.53 | 12.97 | 131.71 |
| 624 | 42.65 | 206.41 | 3.03 | -3.53 | 13.30 | 131.34 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 625 | 42.70 | 184.28 | 2.97 | -3.61 | 13.40 | 131.14 |
| 626 | 42.73 | 197.11 | 2.95 | -3.61 | 13.48 | 131.01 |
| 627 | 42.77 | 199.94 | 2.91 | -3.61 | 12.77 | 131.00 |
| 628 | 42.82 | 203.68 | 2.86 | -3.62 | 12.36 | 130.97 |
| 629 | 42.87 | 208.03 | 2.85 | -3.62 | 11.87 | 131.00 |
| 630 | 42.91 | 215.81 | 2.87 | -3.63 | 11.40 | 131.10 |
| 631 | 42.97 | 222.69 | 2.90 | -3.53 | 11.00 | 131.25 |
| 632 | 43.02 | 226.93 | 2.94 | -3.44 | 10.78 | 131.43 |
| 633 | 43.06 | 230.98 | 3.03 | -3.53 | 10.72 | 131.66 |
| 634 | 43.11 | 233.71 | 3.13 | -3.53 | 10.67 | 131.89 |
| 635 | 43.17 | 238.46 | 3.19 | -3.63 | 10.57 | 132.05 |
| 636 | 43.21 | 241.79 | 3.19 | -3.63 | 10.32 | 132.13 |
| 637 | 43.29 | 246.54 | 3.17 | -3.63 | 10.05 | 132.16 |
| 638 | 43.34 | 250.39 | 3.16 | -3.63 | 9.74 | 132.17 |
| 639 | 43.39 | 254.83 | 3.15 | -3.53 | 9.49 | 132.17 |
| 640 | 43.45 | 257.26 | 3.12 | -3.53 | 9.24 | 132.11 |
| 641 | 43.51 | 258.67 | 3.05 | -3.63 | 8.93 | 131.89 |
| 642 | 43.59 | 258.98 | 2.87 | -3.63 | 8.66 | 131.64 |
| 643 | 43.64 | 258.27 | 2.81 | -3.63 | 8.23 | 131.24 |
| 644 | 43.70 | 260.49 | 2.58 | -3.63 | 7.80 | 130.79 |
| 645 | 43.78 | 259.28 | 2.37 | -3.63 | 7.50 | 130.39 |
| 646 | 43.88 | 255.44 | 2.40 | -3.63 | 7.60 | 130.26 |
| 647 | 43.94 | 250.99 | 2.49 | -3.63 | 8.46 | 130.43 |
| 648 | 44.04 | 228.05 | 2.65 | -3.66 | 9.36 | 130.60 |
| 649 | 44.07 | 225.92 | 2.69 | -3.63 | 10.23 | 130.73 |
| 650 | 44.12 | 223.80 | 2.73 | -3.66 | 10.49 | 130.79 |
| 651 | 44.16 | 221.17 | 2.75 | -3.63 | 10.73 | 130.81 |
| 652 | 44.21 | 218.64 | 2.74 | -3.63 | 11.01 | 130.81 |
| 653 | 44.26 | 214.50 | 2.77 | -3.63 | 11.32 | 130.81 |
| 654 | 44.31 | 210.96 | 2.79 | -3.63 | 11.70 | 130.81 |
| 655 | 44.35 | 207.12 | 2.80 | -3.72 | 12.07 | 130.81 |
| 656 | 44.40 | 202.98 | 2.81 | -3.72 | 12.44 | 130.79 |
| 657 | 44.45 | 199.84 | 2.82 | -3.72 | 12.75 | 130.78 |
| 658 | 44.50 | 197.82 | 2.82 | -3.72 | 12.98 | 130.76 |
| 659 | 44.54 | 196.00 | 2.82 | -3.72 | 13.20 | 130.75 |
| 660 | 44.60 | 193.78 | 2.85 | -3.72 | 13.50 | 130.78 |
| 661 | 44.64 | 190.75 | 2.88 | -3.72 | 13.86 | 130.82 |
| 662 | 44.69 | 188.52 | 2.92 | -3.72 | 14.21 | 130.87 |
| 663 | 44.74 | 186.60 | 2.94 | -3.82 | 14.38 | 130.92 |
| 664 | 44.79 | 188.37 | 2.96 | -3.82 | 14.49 | 130.94 |
| 665 | 44.83 | 186.70 | 2.95 | -3.82 | 14.44 | 130.96 |
| 666 | 44.88 | 188.22 | 2.95 | -3.82 | 14.34 | 130.97 |
| 667 | 44.93 | 191.76 | 2.96 | -3.82 | 14.12 | 131.02 |
| 668 | 44.98 | 193.78 | 2.97 | -3.72 | 13.90 | 131.07 |
| 669 | 45.03 | 195.70 | 2.97 | -3.82 | 13.77 | 131.11 |
| 670 | 45.08 | 196.61 | 2.98 | -3.72 | 13.68 | 131.13 |
| 671 | 45.16 | 197.32 | 2.98 | -3.82 | 13.57 | 131.13 |
| 672 | 45.19 | 198.83 | 2.96 | -3.72 | 13.41 | 131.06 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 673 | 45.27 | 198.73 | 2.88 | -3.82 | 13.22 | 130.92 |
| 674 | 45.32 | 197.92 | 2.81 | -3.82 | 13.07 | 130.71 |
| 675 | 45.37 | 196.20 | 2.73 | -3.82 | 12.89 | 130.37 |
| 676 | 45.45 | 192.77 | 2.52 | -3.82 | 12.75 | 129.96 |
| 677 | 45.51 | 188.52 | 2.41 | -3.82 | 12.79 | 129.49 |
| 678 | 45.56 | 180.54 | 2.32 | -3.82 | 13.16 | 129.13 |
| 679 | 45.61 | 172.65 | 2.26 | -3.82 | 14.11 | 128.81 |
| 680 | 45.69 | 156.48 | 2.24 | -3.82 | 15.78 | 128.59 |
| 681 | 45.75 | 140.00 | 2.30 | -3.82 | 18.95 | 128.52 |
| 682 | 45.81 | 115.94 | 2.49 | -3.91 | 22.57 | 127.65 |
| 683 | 45.89 | 90.17 | 1.83 | -3.91 | 27.28 | 126.48 |
| 684 | 45.94 | 73.89 | 1.73 | -3.91 | 32.45 | 124.69 |
| 685 | 46.04 | 56.20 | 1.58 | -3.91 | 38.98 | 123.71 |
| 686 | 46.08 | 47.71 | 1.52 | -3.91 | 47.47 | 122.68 |
| 687 | 46.15 | 36.09 | 1.45 | -3.82 | 56.21 | 122.08 |
| 688 | 46.17 | 36.19 | 1.44 | -3.53 | 60.34 | 121.69 |
| 689 | 46.18 | 36.19 | 1.43 | -3.53 | 60.04 | 121.61 |
| 690 | 46.23 | 36.29 | 1.40 | -3.53 | 59.44 | 121.53 |
| 691 | 46.27 | 37.10 | 1.38 | -3.44 | 58.23 | 121.42 |
| 692 | 46.32 | 38.31 | 1.34 | -3.15 | 56.14 | 121.33 |
| 693 | 46.41 | 40.64 | 1.30 | -2.86 | 51.16 | 121.34 |
| 694 | 46.47 | 43.06 | 1.32 | -2.77 | 48.66 | 121.54 |
| 695 | 46.52 | 45.89 | 1.37 | -2.77 | 47.10 | 121.93 |
| 696 | 46.56 | 47.51 | 1.45 | -2.77 | 46.43 | 122.56 |
| 697 | 46.65 | 49.43 | 1.62 | -2.67 | 46.28 | 123.25 |
| 698 | 46.71 | 51.45 | 1.75 | -2.58 | 46.04 | 123.95 |
| 699 | 46.76 | 53.78 | 1.86 | -2.48 | 44.89 | 124.54 |
| 700 | 46.85 | 58.12 | 1.95 | -2.39 | 42.94 | 124.99 |
| 701 | 46.90 | 62.77 | 1.97 | -2.39 | 40.08 | 125.34 |
| 702 | 46.99 | 69.04 | 1.98 | -2.48 | 37.61 | 125.55 |
| 703 | 47.04 | 71.97 | 1.98 | -2.48 | 36.35 | 125.63 |
| 704 | 47.10 | 70.15 | 1.97 | -2.77 | 36.71 | 125.56 |
| 705 | 47.16 | 66.51 | 1.95 | -3.34 | 38.66 | 125.31 |
| 706 | 47.23 | 59.84 | 1.90 | -3.82 | 41.64 | 124.83 |
| 707 | 47.30 | 52.66 | 1.77 | -4.20 | 46.53 | 124.02 |
| 708 | 47.38 | 42.05 | 1.62 | -4.58 | 55.83 | 123.02 |
| 709 | 47.43 | 33.76 | 1.52 | -4.58 | 63.91 | 121.70 |
| 710 | 47.52 | 27.09 | 1.27 | -4.77 | 70.43 | 120.03 |
| 711 | 47.59 | 23.86 | 0.95 | -4.77 | 72.90 | 117.35 |
| 712 | 47.66 | 21.03 | 0.52 | -4.77 | 72.89 | 114.76 |
| 713 | 47.77 | 19.51 | 0.53 | -4.68 | 73.13 | 112.86 |
| 714 | 47.82 | 18.80 | 0.54 | -4.58 | 76.41 | 112.94 |
| 715 | 47.91 | 18.19 | 0.56 | -4.58 | 78.15 | 113.07 |
| 716 | 47.93 | 18.35 | 0.57 | -4.36 | 81.01 | 113.17 |
| 717 | 47.97 | 16.68 | 0.58 | -4.36 | 81.15 | 113.36 |
| 718 | 48.02 | 18.50 | 0.60 | -4.36 | 81.66 | 113.65 |
| 719 | 48.07 | 18.60 | 0.64 | -4.23 | 80.69 | 114.13 |
| 720 | 48.12 | 18.60 | 0.68 | -4.10 | 82.08 | 114.75 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 721 | 48.19 | 18.80 | 0.77 | -4.01 | 83.29 | 115.28 |
| 722 | 48.23 | 18.90 | 0.79 | -4.01 | 83.94 | 115.75 |
| 723 | 48.31 | 19.21 | 0.82 | -4.01 | 83.94 | 116.02 |
| 724 | 48.35 | 19.51 | 0.84 | -3.91 | 83.94 | 116.26 |
| 725 | 48.40 | 19.51 | 0.86 | -3.91 | 84.74 | 116.39 |
| 726 | 48.45 | 18.90 | 0.88 | -3.91 | 86.54 | 116.45 |
| 727 | 48.50 | 18.19 | 0.88 | -3.82 | 89.36 | 116.43 |
| 728 | 48.55 | 17.29 | 0.89 | -3.72 | 90.62 | 116.47 |
| 729 | 48.59 | 18.09 | 0.90 | -3.72 | 91.76 | 116.60 |
| 730 | 48.67 | 17.69 | 0.94 | -3.53 | 91.23 | 116.72 |
| 731 | 48.73 | 17.99 | 0.92 | -3.53 | 91.27 | 116.67 |
| 732 | 48.78 | 17.99 | 0.89 | -3.53 | 89.99 | 116.42 |
| 733 | 48.83 | 18.09 | 0.84 | -3.53 | 88.84 | 116.04 |
| 734 | 48.91 | 17.99 | 0.79 | -3.44 | 87.70 | 115.60 |
| 735 | 48.98 | 17.89 | 0.74 | -3.34 | 86.94 | 115.19 |
| 736 | 49.03 | 17.79 | 0.72 | -3.15 | 86.65 | 114.95 |
| 737 | 49.12 | 17.69 | 0.72 | -3.05 | 85.60 | 114.48 |
| 738 | 49.17 | 17.69 | 0.61 | -2.96 | 83.33 | 113.76 |
| 739 | 49.27 | 17.99 | 0.53 | -2.96 | 80.70 | 113.14 |
| 740 | 49.31 | 18.50 | 0.56 | -2.86 | 79.11 | 113.26 |
| 741 | 49.38 | 19.31 | 0.62 | -2.77 | 78.69 | 113.92 |
| 742 | 49.45 | 19.91 | 0.66 | -2.67 | 78.67 | 114.51 |
| 743 | 49.51 | 20.01 | 0.70 | -2.67 | 81.86 | 114.78 |
| 744 | 49.54 | 17.18 | 0.72 | -2.34 | 81.23 | 115.10 |
| 745 | 49.59 | 21.23 | 0.74 | -2.34 | 79.36 | 115.30 |
| 746 | 49.64 | 22.24 | 0.73 | -2.34 | 75.47 | 115.37 |
| 747 | 49.73 | 21.23 | 0.70 | -2.00 | 76.06 | 115.20 |
| 748 | 49.83 | 20.22 | 0.70 | -2.00 | 78.94 | 114.89 |
| 749 | 49.92 | 18.70 | 0.68 | -1.91 | 82.21 | 114.64 |
| 750 | 49.98 | 17.79 | 0.67 | -1.81 | 85.18 | 114.35 |
| 751 | 50.07 | 17.18 | 0.66 | -1.72 | 86.78 | 114.13 |
| 752 | 50.16 | 17.08 | 0.64 | -1.62 | 87.78 | 113.97 |
| 753 | 50.24 | 16.78 | 0.64 | -1.53 | 88.72 | 113.83 |
| 754 | 50.32 | 16.27 | 0.63 | -1.43 | 89.58 | 113.75 |
| 755 | 50.41 | 16.38 | 0.63 | -1.43 | 90.32 | 113.77 |
| 756 | 50.50 | 16.38 | 0.65 | -1.34 | 90.32 | 113.80 |
| 757 | 50.56 | 16.38 | 0.64 | -1.34 | 90.32 | 113.63 |
| 758 | 50.66 | 16.07 | 0.59 | -1.24 | 90.38 | 113.36 |
| 759 | 50.74 | 15.87 | 0.59 | -1.15 | 90.68 | 113.17 |
| 760 | 50.84 | 15.87 | 0.60 | -1.15 | 92.49 | 113.65 |
| 761 | 50.93 | 15.87 | 0.71 | -1.05 | 95.02 | 114.60 |
| 762 | 50.98 | 16.17 | 0.85 | -1.05 | 96.87 | 116.37 |
| 763 | 51.08 | 18.30 | 1.14 | -0.95 | 92.70 | 118.68 |
| 764 | 51.17 | 24.36 | 1.53 | -0.76 | 84.52 | 120.98 |
| 765 | 51.24 | 30.73 | 1.80 | -0.76 | 77.19 | 122.97 |
| 766 | 51.34 | 35.28 | 2.14 | -0.57 | 74.02 | 124.16 |
| 767 | 51.41 | 34.97 | 2.26 | -0.57 | 71.12 | 123.46 |
| 768 | 51.51 | 32.25 | 1.21 | -0.57 | 70.63 | 122.43 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 769 | 51.58 | 31.24 | 1.48 | -0.57 | 69.74 | 121.04 |
| 770 | 51.68 | 30.12 | 1.47 | -0.38 | 72.97 | 121.32 |
| 771 | 51.79 | 28.51 | 1.42 | -0.38 | 77.64 | 121.01 |
| 772 | 51.82 | 23.55 | 1.42 | 0.00 | 80.70 | 120.81 |
| 773 | 51.85 | 25.57 | 1.43 | 0.00 | 84.43 | 120.74 |
| 774 | 51.91 | 24.06 | 1.47 | 0.10 | 84.06 | 121.14 |
| 775 | 52.00 | 25.37 | 1.63 | 0.19 | 85.77 | 121.55 |
| 776 | 52.05 | 25.17 | 1.70 | 0.48 | 82.19 | 122.20 |
| 777 | 52.10 | 30.63 | 1.77 | 0.67 | 73.91 | 122.79 |
| 778 | 52.19 | 39.52 | 1.77 | 0.67 | 64.23 | 123.22 |
| 779 | 52.28 | 45.29 | 1.67 | 0.19 | 57.68 | 123.38 |
| 780 | 52.34 | 47.31 | 1.65 | -0.10 | 55.15 | 123.36 |
| 781 | 52.42 | 46.50 | 1.68 | -0.38 | 55.52 | 123.38 |
| 782 | 52.48 | 44.48 | 1.70 | -0.29 | 57.37 | 123.35 |
| 783 | 52.57 | 42.05 | 1.69 | -0.29 | 59.26 | 123.14 |
| 784 | 52.62 | 40.43 | 1.61 | -0.19 | 60.78 | 122.72 |
| 785 | 52.69 | 38.31 | 1.49 | 0.00 | 61.59 | 122.10 |
| 786 | 52.77 | 36.79 | 1.37 | 0.10 | 62.55 | 121.57 |
| 787 | 52.87 | 35.58 | 1.36 | 0.19 | 63.92 | 121.31 |
| 788 | 52.91 | 34.27 | 1.39 | 0.19 | 65.28 | 120.93 |
| 789 | 53.01 | 32.35 | 1.22 | 0.19 | 67.19 | 120.67 |
| 790 | 53.10 | 31.03 | 1.28 | 0.29 | 68.16 | 120.77 |
| 791 | 53.16 | 33.16 | 1.47 | 0.38 | 69.53 | 122.45 |
| 792 | 53.25 | 37.91 | 2.14 | 0.48 | 67.34 | 124.27 |
| 793 | 53.29 | 44.98 | 2.40 | 0.57 | 65.53 | 126.29 |
| 794 | 53.38 | 49.94 | 3.03 | 0.67 | 63.67 | 127.54 |
| 795 | 53.42 | 51.76 | 3.26 | 1.15 | 57.59 | 128.96 |
| 796 | 53.47 | 76.22 | 3.60 | 1.34 | 50.04 | 130.26 |
| 797 | 53.52 | 95.93 | 4.09 | 1.43 | 43.49 | 131.46 |
| 798 | 53.58 | 106.44 | 4.29 | 1.24 | 41.58 | 132.45 |
| 799 | 53.66 | 106.44 | 4.88 | -1.34 | 42.62 | 133.05 |
| 800 | 53.75 | 98.56 | 5.19 | -2.86 | 45.49 | 133.37 |
| 801 | 53.81 | 91.08 | 5.18 | -6.30 | 49.54 | 133.18 |
| 802 | 53.87 | 77.43 | 5.01 | -9.74 | 53.77 | 132.67 |
| 803 | 53.95 | 68.54 | 4.74 | -10.69 | 59.61 | 131.92 |
| 804 | 54.01 | 56.20 | 4.47 | -11.74 | 65.69 | 131.12 |
| 805 | 54.06 | 47.81 | 4.22 | -11.84 | 72.92 | 129.99 |
| 806 | 54.15 | 39.02 | 3.56 | -11.84 | 77.78 | 129.07 |
| 807 | 54.20 | 39.02 | 3.50 | -11.84 | 78.61 | 128.77 |
| 808 | 54.29 | 44.27 | 3.87 | -11.84 | 70.76 | 129.29 |
| 809 | 54.34 | 59.94 | 3.77 | -11.84 | 51.11 | 129.21 |
| 810 | 54.43 | 104.52 | 2.08 | -12.22 | 34.79 | 128.49 |
| 811 | 54.45 | 137.17 | 1.94 | -11.93 | 23.26 | 127.27 |
| 812 | 54.48 | 170.33 | 1.92 | -12.60 | 19.04 | 127.74 |
| 813 | 54.52 | 191.25 | 2.08 | -13.36 | 17.01 | 128.18 |
| 814 | 54.53 | 195.50 | 2.08 | -13.08 | 16.36 | 128.98 |
| 815 | 54.58 | 210.36 | 2.46 | -12.79 | 16.17 | 129.67 |
| 816 | 54.62 | 218.44 | 2.63 | -8.30 | 15.74 | 130.34 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 817 | 54.65 | 230.47 | 2.63 | -4.01 | 14.88 | 130.73 |
| 818 | 54.70 | 251.70 | 2.72 | -3.63 | 14.37 | 131.15 |
| 819 | 54.76 | 252.00 | 2.98 | -4.09 | 14.25 | 131.53 |
| 820 | 54.77 | 249.83 | 2.99 | -3.42 | 14.61 | 131.77 |
| 821 | 54.82 | 247.96 | 3.02 | -3.42 | 14.54 | 131.82 |
| 822 | 54.87 | 256.85 | 3.02 | -3.42 | 14.47 | 131.87 |
| 823 | 54.88 | 254.53 | 3.03 | -2.96 | 14.29 | 131.89 |
| 824 | 54.91 | 255.64 | 3.02 | -3.09 | 14.24 | 131.96 |
| 825 | 54.96 | 261.81 | 3.08 | -2.96 | 13.92 | 132.10 |
| 826 | 54.97 | 272.93 | 3.13 | -2.77 | 13.35 | 132.49 |
| 827 | 55.03 | 295.47 | 3.37 | -2.39 | 12.75 | 133.09 |
| 828 | 55.09 | 316.39 | 3.69 | -2.96 | 11.80 | 133.38 |
| 829 | 55.15 | 333.88 | 3.31 | -3.25 | 10.23 | 132.43 |
| 830 | 55.20 | 333.38 | 2.00 | -3.05 | 9.28 | 131.93 |
| 831 | 55.25 | 347.93 | 3.01 | -3.05 | 7.69 | 130.99 |
| 832 | 55.30 | 393.32 | 2.16 | -3.05 | 7.43 | 132.16 |
| 833 | 55.34 | 419.40 | 3.03 | -2.96 | 6.93 | 132.95 |
| 834 | 55.39 | 439.92 | 3.71 | -2.77 | 7.32 | 134.46 |
| 835 | 55.40 | 460.94 | 4.01 | -2.86 | 7.35 | 135.39 |
| 836 | 55.44 | 486.11 | 4.30 | -2.67 | 7.07 | 135.83 |
| 837 | 55.44 | 501.48 | 4.26 | -2.67 | 6.42 | 136.02 |
| 838 | 55.49 | 546.16 | 4.10 | -2.64 | 6.52 | 136.38 |
| 839 | 55.54 | 505.72 | 4.89 | -1.24 | 6.65 | 137.08 |
| 840 | 55.59 | 548.48 | 5.43 | -1.05 | 7.22 | 137.28 |
| 841 | 55.63 | 550.81 | 5.64 | -2.46 | 7.14 | 137.28 |
| 842 | 55.64 | 554.04 | 5.65 | -2.46 | 7.12 | 137.28 |
| 843 | 55.68 | 555.66 | 5.52 | -2.67 | 6.77 | 137.28 |
| 844 | 55.69 | 591.24 | 5.48 | -2.60 | 6.62 | 137.28 |
| 845 | 55.69 | 564.35 | 5.44 | -2.60 | 6.75 | 137.28 |
| 846 | 55.71 | 543.02 | 5.64 | -2.53 | 7.10 | 137.28 |
| 847 | 55.76 | 577.59 | 6.17 | -2.53 | 7.22 | 137.28 |
| 848 | 55.78 | 581.33 | 6.12 | -2.39 | 7.02 | 137.28 |
| 849 | 55.81 | 581.74 | 5.86 | -2.19 | 6.58 | 137.28 |
| 850 | 55.85 | 580.73 | 4.95 | -2.67 | 5.96 | 137.28 |
| 851 | 55.86 | 590.13 | 4.53 | -2.96 | 5.19 | 136.82 |
| 852 | 55.91 | 594.27 | 4.00 | -2.96 | 4.62 | 136.29 |
| 853 | 55.92 | 611.66 | 3.93 | -2.58 | 4.30 | 135.90 |
| 854 | 55.96 | 600.94 | 3.86 | -2.48 | 3.98 | 135.87 |
| 855 | 55.97 | 644.61 | 3.85 | -2.96 | 3.85 | 136.11 |
| 856 | 56.00 | 656.84 | 4.22 | -3.15 | 3.75 | 136.51 |
| 857 | 56.01 | 661.80 | 4.40 | -3.25 | 4.03 | 137.12 |
| 858 | 56.03 | 661.85 | 4.90 | -3.25 | 4.27 | 137.28 |
| 859 | 56.05 | 661.85 | 5.01 | -3.05 | 4.38 | 137.28 |
| 860 | 56.10 | 661.90 | 4.73 | -2.86 | 4.31 | 137.28 |
| 861 | 56.12 | 671.50 | 4.82 | -2.77 | 4.05 | 137.28 |
| 862 | 56.16 | 670.79 | 4.37 | -2.67 | 3.91 | 137.12 |
| 863 | 56.17 | 660.89 | 4.28 | -2.77 | 3.94 | 136.81 |
| 864 | 56.20 | 632.79 | 4.35 | -2.77 | 4.25 | 136.76 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 865 | 56.22 | 611.76 | 4.41 | -2.77 | 4.54 | 136.69 |
| 866 | 56.24 | 608.02 | 4.27 | -2.67 | 4.60 | 136.52 |
| 867 | 56.30 | 605.70 | 4.12 | -2.77 | 4.63 | 136.39 |
| 868 | 56.31 | 594.48 | 4.22 | -2.67 | 4.86 | 136.51 |
| 869 | 56.34 | 587.00 | 4.54 | -2.67 | 5.22 | 136.76 |
| 870 | 56.39 | 577.29 | 4.62 | -2.67 | 5.42 | 136.81 |
| 871 | 56.45 | 572.94 | 4.38 | -2.77 | 5.52 | 136.73 |
| 872 | 56.48 | 566.78 | 4.44 | -2.58 | 5.63 | 136.67 |
| 873 | 56.49 | 556.57 | 4.57 | -2.48 | 6.11 | 137.00 |
| 874 | 56.53 | 543.12 | 5.08 | -2.39 | 6.65 | 137.27 |
| 875 | 56.58 | 526.85 | 5.09 | -2.29 | 7.00 | 137.27 |
| 876 | 56.63 | 517.25 | 4.68 | -2.39 | 5.57 | 135.21 |
| 877 | 56.68 | 530.19 | 1.47 | -2.67 | 4.07 | 132.85 |
| 878 | 56.73 | 530.69 | 1.99 | -2.19 | 3.28 | 131.52 |
| 879 | 56.78 | 533.22 | 3.31 | -2.10 | 4.70 | 133.92 |
| 880 | 56.83 | 515.12 | 4.11 | -2.10 | 5.98 | 135.53 |
| 881 | 56.89 | 505.72 | 4.38 | -1.81 | 6.76 | 136.05 |
| 882 | 56.95 | 489.35 | 4.29 | -1.72 | 7.57 | 136.39 |
| 883 | 56.99 | 460.13 | 4.89 | -1.77 | 8.27 | 136.67 |
| 884 | 57.01 | 461.35 | 5.04 | -1.81 | 8.73 | 136.83 |
| 885 | 57.04 | 461.35 | 4.71 | -1.77 | 8.64 | 136.75 |
| 886 | 57.09 | 462.56 | 4.73 | -1.77 | 8.37 | 136.69 |
| 887 | 57.11 | 480.76 | 4.85 | -1.72 | 8.26 | 136.91 |
| 888 | 57.13 | 489.04 | 5.06 | -1.72 | 8.28 | 137.28 |
| 889 | 57.18 | 496.12 | 5.48 | -1.72 | 8.57 | 137.28 |
| 890 | 57.19 | 481.26 | 5.56 | -1.72 | 9.17 | 137.28 |
| 891 | 57.21 | 456.09 | 5.75 | -1.53 | 9.62 | 137.28 |
| 892 | 57.24 | 456.14 | 5.61 | -1.53 | 9.80 | 137.28 |
| 893 | 57.28 | 456.19 | 5.36 | -1.53 | 9.62 | 137.28 |
| 894 | 57.32 | 457.91 | 5.35 | -1.53 | 9.68 | 137.28 |
| 895 | 57.35 | 438.71 | 5.32 | -1.62 | 9.84 | 137.28 |
| 896 | 57.38 | 439.61 | 5.31 | -1.43 | 10.12 | 137.28 |
| 897 | 57.43 | 428.50 | 5.24 | -1.43 | 10.11 | 137.06 |
| 898 | 57.48 | 423.44 | 4.91 | -1.62 | 10.27 | 136.57 |
| 899 | 57.52 | 392.11 | 4.48 | -1.53 | 10.16 | 135.74 |
| 900 | 57.57 | 380.28 | 3.84 | -1.53 | 10.70 | 135.89 |
| 901 | 57.62 | 396.35 | 5.29 | -1.53 | 11.26 | 136.75 |
| 902 | 57.68 | 413.43 | 6.11 | -1.53 | 10.99 | 137.28 |
| 903 | 57.76 | 472.77 | 5.74 | -1.43 | 9.99 | 137.28 |
| 904 | 57.81 | 500.57 | 5.68 | -1.72 | 7.13 | 136.51 |
| 905 | 57.86 | 543.23 | 2.17 | -1.72 | 4.79 | 134.57 |
| 906 | 57.89 | 587.00 | 2.33 | -1.72 | 2.67 | 131.65 |
| 907 | 57.91 | 587.40 | 2.22 | -1.72 | 2.56 | 131.81 |
| 908 | 57.92 | 576.28 | 2.27 | -1.72 | 2.86 | 132.23 |
| 909 | 57.95 | 567.79 | 2.76 | -1.72 | 3.35 | 132.94 |
| 910 | 57.99 | 563.14 | 3.00 | -1.72 | 3.71 | 133.65 |
| 911 | 58.01 | 581.13 | 3.08 | -1.72 | 3.92 | 134.30 |
| 912 | 58.05 | 591.95 | 3.53 | -1.72 | 3.96 | 134.78 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 913 | 58.05 | 600.54 | 3.58 | -1.05 | 4.23 | 135.48 |
| 914 | 58.10 | 604.18 | 4.04 | -1.43 | 4.36 | 135.85 |
| 915 | 58.13 | 609.64 | 4.08 | -1.53 | 4.44 | 136.17 |
| 916 | 58.15 | 619.75 | 4.05 | -1.53 | 4.30 | 136.16 |
| 917 | 58.17 | 626.22 | 3.98 | -1.53 | 4.19 | 136.18 |
| 918 | 58.20 | 629.45 | 4.07 | -1.53 | 4.24 | 136.22 |
| 919 | 58.21 | 614.69 | 4.13 | -1.72 | 4.37 | 136.30 |
| 920 | 58.21 | 614.14 | 4.14 | -1.72 | 4.48 | 136.33 |
| 921 | 58.23 | 614.14 | 4.16 | -1.72 | 4.50 | 136.34 |
| 922 | 58.24 | 613.58 | 4.15 | -1.81 | 4.62 | 136.36 |
| 923 | 58.25 | 596.70 | 4.21 | -1.81 | 3.41 | 134.35 |
| 924 | 58.29 | 617.42 | 1.15 | -1.72 | 2.07 | 131.70 |
| 925 | 58.31 | 627.93 | 1.23 | -1.72 | 0.59 | 127.71 |
| 926 | 58.33 | 636.43 | 1.41 | -1.72 | 0.81 | 129.01 |
| 927 | 58.38 | 652.70 | 1.86 | -1.62 | 1.14 | 130.50 |
| 928 | 58.39 | 665.03 | 2.22 | -1.70 | 1.43 | 131.67 |
| 929 | 58.43 | 667.96 | 2.33 | -1.62 | 1.54 | 132.23 |
| 930 | 58.43 | 678.68 | 2.34 | -1.70 | 1.38 | 132.20 |
| 931 | 58.48 | 701.62 | 2.15 | -1.62 | 1.49 | 132.66 |
| 932 | 58.53 | 683.83 | 2.76 | -1.62 | 1.70 | 133.35 |
| 933 | 58.56 | 697.78 | 3.03 | -1.81 | 2.25 | 134.65 |
| 934 | 58.58 | 707.59 | 3.68 | -1.91 | 2.48 | 135.33 |
| 935 | 58.59 | 707.99 | 3.65 | -1.73 | 2.66 | 135.86 |
| 936 | 58.63 | 717.19 | 3.78 | -1.54 | 2.76 | 135.95 |
| 937 | 58.63 | 696.42 | 3.83 | -1.37 | 2.82 | 136.12 |
| 938 | 58.63 | 714.06 | 3.90 | -1.37 | 2.92 | 135.93 |
| 939 | 58.68 | 675.65 | 3.56 | -1.03 | 2.66 | 135.58 |
| 940 | 58.69 | 710.92 | 3.27 | -1.03 | 2.12 | 134.51 |
| 941 | 58.72 | 719.11 | 2.44 | -1.03 | 1.55 | 133.64 |
| 942 | 58.73 | 723.56 | 2.46 | -0.91 | 1.34 | 133.28 |
| 943 | 58.74 | 726.19 | 2.85 | -0.48 | 1.62 | 134.13 |
| 944 | 58.77 | 736.20 | 3.38 | -0.85 | 2.06 | 135.06 |
| 945 | 58.81 | 718.51 | 3.65 | -0.85 | 2.44 | 135.72 |
| 946 | 58.82 | 713.35 | 3.81 | -0.85 | 2.73 | 136.05 |
| 947 | 58.83 | 710.01 | 3.91 | -0.86 | 2.96 | 136.52 |
| 948 | 58.87 | 724.07 | 4.41 | -0.86 | 3.17 | 137.07 |
| 949 | 58.91 | 732.96 | 4.71 | -0.86 | 3.32 | 137.28 |
| 950 | 58.92 | 738.02 | 4.73 | -0.76 | 3.35 | 137.28 |
| 951 | 58.93 | 742.66 | 4.76 | -0.67 | 3.28 | 137.28 |
| 952 | 58.96 | 740.95 | 4.59 | -0.57 | 3.26 | 137.28 |
| 953 | 59.01 | 733.57 | 4.60 | -0.57 | 3.68 | 137.28 |
| 954 | 59.06 | 674.43 | 5.18 | -1.24 | 4.25 | 137.28 |
| 955 | 59.08 | 653.91 | 5.10 | -1.24 | 4.86 | 137.28 |
| 956 | 59.11 | 637.54 | 4.96 | -1.24 | 5.19 | 137.28 |
| 957 | 59.15 | 625.41 | 5.36 | -1.24 | 5.74 | 137.28 |
| 958 | 59.21 | 618.74 | 6.10 | -1.43 | 6.20 | 137.28 |
| 959 | 59.26 | 610.75 | 5.85 | -0.95 | 6.43 | 137.28 |
| 960 | 59.30 | 588.81 | 5.33 | -0.67 | 6.35 | 137.28 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 961 | 59.35 | 577.39 | 5.07 | -0.67 | 6.33 | 137.28 |
| 962 | 59.40 | 573.45 | 5.09 | -0.67 | 6.60 | 137.28 |
| 963 | 59.42 | 537.46 | 5.10 | -0.62 | 6.81 | 137.28 |
| 964 | 59.47 | 542.01 | 4.94 | -0.62 | 7.03 | 137.28 |
| 965 | 59.51 | 538.58 | 4.99 | -0.62 | 7.10 | 137.28 |
| 966 | 59.56 | 537.67 | 5.28 | -0.48 | 7.14 | 137.28 |
| 967 | 59.61 | 537.67 | 4.95 | -0.48 | 6.86 | 137.10 |
| 968 | 59.67 | 536.76 | 4.21 | -0.48 | 6.15 | 136.33 |
| 969 | 59.71 | 551.52 | 3.80 | -0.29 | 5.22 | 135.39 |
| 970 | 59.80 | 572.94 | 3.30 | -0.29 | 4.51 | 134.34 |
| 971 | 59.85 | 543.02 | 2.68 | -0.10 | 4.17 | 133.65 |
| 972 | 59.90 | 541.41 | 2.94 | 0.00 | 4.17 | 133.27 |
| 973 | 60.00 | 542.21 | 2.91 | 0.29 | 4.27 | 133.47 |
| 974 | 60.04 | 545.35 | 2.91 | 0.19 | 4.40 | 133.64 |
| 975 | 60.10 | 537.57 | 3.16 | 0.19 | 4.95 | 133.98 |
| 976 | 60.15 | 496.63 | 3.43 | 0.19 | 5.55 | 134.23 |
| 977 | 60.19 | 490.76 | 3.36 | 0.19 | 6.05 | 134.17 |
| 978 | 60.23 | 474.79 | 3.20 | 0.19 | 5.92 | 133.82 |
| 979 | 60.28 | 484.90 | 2.99 | 0.29 | 5.71 | 133.46 |
| 980 | 60.33 | 488.14 | 2.90 | 0.29 | 5.51 | 133.41 |
| 981 | 60.38 | 493.90 | 3.10 | 0.29 | 5.65 | 133.73 |
| 982 | 60.42 | 493.85 | 3.38 | 0.29 | 5.89 | 134.17 |
| 983 | 60.44 | 493.80 | 3.46 | 0.29 | 6.33 | 134.53 |
| 984 | 60.47 | 473.88 | 3.65 | 0.38 | 6.98 | 134.97 |
| 985 | 60.52 | 460.13 | 4.12 | 0.48 | 7.63 | 135.40 |
| 986 | 60.56 | 462.56 | 4.23 | 0.38 | 8.01 | 135.74 |
| 987 | 60.57 | 465.39 | 4.25 | 0.38 | 7.98 | 135.80 |
| 988 | 60.61 | 467.11 | 4.21 | 0.38 | 7.76 | 135.74 |
| 989 | 60.66 | 479.34 | 4.08 | 0.38 | 7.57 | 135.77 |
| 990 | 60.71 | 485.41 | 4.24 | 0.38 | 7.40 | 135.90 |
| 991 | 60.76 | 495.21 | 4.35 | 0.48 | 7.47 | 136.31 |
| 992 | 60.81 | 505.12 | 4.72 | 0.67 | 7.48 | 136.65 |
| 993 | 60.86 | 513.91 | 4.79 | 0.76 | 7.09 | 136.81 |
| 994 | 60.91 | 550.10 | 4.48 | 0.95 | 6.19 | 136.86 |
| 995 | 60.95 | 615.30 | 4.50 | 1.05 | 5.45 | 137.13 |
| 996 | 61.00 | 639.05 | 4.99 | 1.24 | 5.05 | 137.28 |
| 997 | 61.02 | 658.56 | 5.11 | 1.72 | 5.00 | 137.28 |
| 998 | 61.05 | 675.54 | 5.33 | 1.72 | 4.74 | 137.28 |
| 999 | 61.08 | 721.13 | 5.51 | 1.62 | 4.50 | 137.28 |
| 1000 | 61.09 | 733.97 | 5.54 | 1.62 | 4.27 | 137.28 |
| 1001 | 61.13 | 740.34 | 5.59 | 1.81 | 4.24 | 137.28 |
| 1002 | 61.14 | 739.43 | 5.66 | 1.91 | 4.28 | 137.28 |
| 1003 | 61.16 | 738.52 | 5.76 | 1.91 | 4.32 | 137.28 |
| 1004 | 61.20 | 746.30 | 5.81 | 1.91 | 4.05 | 137.28 |
| 1005 | 61.23 | 767.73 | 5.15 | 1.91 | 3.75 | 137.28 |
| 1006 | 61.24 | 772.28 | 5.21 | 1.81 | 3.14 | 137.28 |
| 1007 | 61.29 | 760.66 | 3.90 | 1.81 | 2.97 | 137.28 |
| 1008 | 61.30 | 743.57 | 4.26 | 1.72 | 3.09 | 137.25 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1009 | 61.33 | 728.41 | 5.05 | 1.81 | 3.50 | 137.28 |
| 1010 | 61.38 | 731.65 | 4.85 | 2.00 | 3.57 | 137.28 |
| 1011 | 61.43 | 732.56 | 4.32 | 1.81 | 3.24 | 137.17 |
| 1012 | 61.48 | 728.92 | 3.98 | 1.81 | 2.87 | 136.68 |
| 1013 | 61.53 | 753.18 | 3.97 | 1.62 | 2.61 | 136.51 |
| 1014 | 61.56 | 770.56 | 3.96 | 1.72 | 2.53 | 136.46 |
| 1015 | 61.58 | 740.54 | 3.88 | 1.72 | 2.82 | 136.29 |
| 1016 | 61.59 | 669.61 | 3.85 | 1.46 | 3.07 | 136.12 |
| 1017 | 61.62 | 696.97 | 3.82 | 0.67 | 4.53 | 135.66 |
| 1018 | 61.63 | 435.47 | 3.76 | 0.86 | 4.59 | 135.59 |
| 1019 | 61.67 | 653.41 | 3.77 | 1.34 | 4.68 | 135.51 |
| 1020 | 61.71 | 676.15 | 3.74 | 1.43 | 3.52 | 135.82 |
| 1021 | 61.76 | 658.36 | 3.79 | 1.34 | 3.57 | 135.69 |
| 1022 | 61.81 | 631.98 | 3.61 | 1.34 | 3.48 | 134.89 |
| 1023 | 61.86 | 611.66 | 2.70 | 1.53 | 3.19 | 133.76 |
| 1024 | 61.87 | 601.35 | 2.42 | 1.62 | 2.51 | 131.84 |
| 1025 | 61.91 | 589.42 | 1.65 | 1.72 | 2.08 | 130.34 |
| 1026 | 61.95 | 575.78 | 1.49 | 1.72 | 1.72 | 128.91 |
| 1027 | 61.96 | 568.80 | 1.46 | 1.62 | 1.77 | 128.59 |
| 1028 | 62.00 | 555.56 | 1.48 | 1.53 | 2.11 | 128.99 |
| 1029 | 62.04 | 536.66 | 1.77 | 1.43 | 2.73 | 129.80 |
| 1030 | 62.06 | 513.20 | 2.07 | 1.34 | 3.63 | 130.78 |
| 1031 | 62.10 | 482.98 | 2.34 | 1.34 | 4.36 | 131.39 |
| 1032 | 62.14 | 478.73 | 2.39 | 1.34 | 4.98 | 131.79 |
| 1033 | 62.20 | 464.78 | 2.54 | 1.34 | 5.42 | 131.98 |
| 1034 | 62.22 | 445.68 | 2.60 | 1.62 | 6.21 | 132.17 |
| 1035 | 62.27 | 407.07 | 2.72 | 1.43 | 7.02 | 132.25 |
| 1036 | 62.29 | 393.62 | 2.77 | 1.34 | 7.80 | 132.39 |
| 1037 | 62.34 | 388.36 | 2.89 | 1.43 | 8.52 | 132.51 |
| 1038 | 62.39 | 358.75 | 2.98 | 1.24 | 9.48 | 132.97 |
| 1039 | 62.43 | 352.68 | 3.46 | 1.43 | 11.11 | 133.79 |
| 1040 | 62.49 | 331.86 | 4.17 | 1.43 | 12.15 | 134.44 |
| 1041 | 62.57 | 335.80 | 4.05 | 1.43 | 12.81 | 134.86 |
| 1042 | 62.68 | 341.56 | 4.21 | 1.43 | 12.34 | 135.49 |
| 1043 | 62.75 | 394.13 | 5.02 | 1.53 | 11.19 | 136.33 |
| 1044 | 62.87 | 459.02 | 5.12 | 1.62 | 10.57 | 136.91 |
| 1045 | 62.88 | 425.46 | 5.04 | 1.53 | 11.01 | 136.62 |
| 1046 | 62.89 | 343.08 | 4.64 | 0.86 | 9.46 | 135.64 |
| 1047 | 62.93 | 504.41 | 3.12 | 1.53 | 6.80 | 134.88 |
| 1048 | 62.98 | 608.73 | 3.27 | 1.24 | 4.56 | 134.66 |
| 1049 | 63.02 | 602.56 | 3.75 | 1.53 | 2.42 | 132.17 |
| 1050 | 63.07 | 649.36 | 0.00 | 1.53 | 0.48 | 127.73 |
| 1051 | 63.12 | 723.66 | 0.00 | 1.62 | N/A | 87.36 |
| 1052 | 63.14 | 759.24 | 0.00 | 1.62 | N/A | 87.36 |
| 1053 | 63.17 | 774.10 | 0.00 | 1.72 | N/A | 87.36 |
| 1054 | 63.17 | 810.49 | 0.00 | 1.53 | N/A | 87.36 |
| 1055 | 63.20 | 813.42 | 0.00 | 1.53 | N/A | 87.36 |
| 1056 | 63.21 | 853.96 | 0.00 | 1.53 | N/A | 87.36 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1057 | 63.23 | 825.05 | 0.00 | 1.43 | N/A | 87.36 |
| 1058 | 63.26 | 849.66 | 0.00 | 0.99 | N/A | 87.36 |
| 1059 | 63.28 | 829.50 | 0.00 | 0.99 | N/A | 87.36 |
| 1060 | 63.31 | 845.37 | 0.00 | 0.29 | N/A | 87.36 |
| 1061 | 63.32 | 839.40 | 0.00 | 0.48 | N/A | 87.36 |
| 1062 | 63.36 | 833.34 | 0.00 | 0.57 | N/A | 87.36 |
| 1063 | 63.40 | 838.59 | 0.00 | 0.67 | N/A | 87.36 |

**Abbreviations**

| | |
|---|---|
| Depth: | Depth from free surface, at which CPT was performed (ft) |
| $q_c$: | Measured cone resistance (tsf) |
| $f_s$: | Sleeve friction resistance (tsf) |
| u: | Pore pressure (tsf) |
| Fines content: | Percentage of fines in soil (%) |
| Unit weight: | Bulk soil unit weight (pcf) |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data ::**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.01 | 0.00 | 0.00 | 0.00 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 2 | 0.04 | 0.00 | 0.00 | 0.00 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 3 | 0.09 | 0.01 | 0.00 | 0.01 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 4 | 0.11 | 0.01 | 0.00 | 0.01 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 5 | 0.14 | 0.01 | 0.00 | 0.01 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 6 | 0.14 | 0.01 | 0.00 | 0.01 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 7 | 0.18 | 0.01 | 0.00 | 0.01 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 8 | 0.23 | 0.01 | 0.00 | 0.01 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 9 | 0.24 | 0.01 | 0.00 | 0.01 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 10 | 0.28 | 0.02 | 0.00 | 0.02 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 11 | 0.33 | 0.02 | 0.00 | 0.02 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 12 | 0.38 | 0.02 | 0.00 | 0.02 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 13 | 0.42 | 0.02 | 0.00 | 0.02 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 14 | 0.47 | 0.03 | 0.00 | 0.03 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 15 | 0.51 | 0.03 | 0.00 | 0.03 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 16 | 0.52 | 0.03 | 0.00 | 0.03 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 17 | 0.57 | 0.03 | 0.00 | 0.03 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 18 | 0.61 | 0.03 | 0.00 | 0.03 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 19 | 0.67 | 0.04 | 0.00 | 0.04 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 20 | 0.73 | 0.04 | 0.00 | 0.04 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 21 | 0.81 | 0.04 | 0.00 | 0.04 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 22 | 0.86 | 0.05 | 0.00 | 0.05 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 23 | 0.98 | 0.05 | 0.00 | 0.05 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 24 | 1.05 | 0.06 | 0.00 | 0.06 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 25 | 1.15 | 0.06 | 0.00 | 0.06 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 26 | 1.24 | 0.07 | 0.00 | 0.07 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 27 | 1.34 | 0.07 | 0.00 | 0.07 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 28 | 1.43 | 0.08 | 0.00 | 0.08 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 29 | 1.53 | 0.09 | 0.00 | 0.09 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 30 | 1.58 | 0.09 | 0.00 | 0.09 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 31 | 1.62 | 0.09 | 0.00 | 0.09 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 32 | 1.67 | 0.09 | 0.00 | 0.09 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 33 | 1.75 | 0.10 | 0.00 | 0.10 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 34 | 1.77 | 0.10 | 0.00 | 0.10 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 35 | 1.81 | 0.10 | 0.00 | 0.10 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 36 | 1.86 | 0.10 | 0.00 | 0.10 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 37 | 1.91 | 0.11 | 0.00 | 0.11 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 38 | 1.95 | 0.11 | 0.00 | 0.11 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 39 | 2.00 | 0.11 | 0.00 | 0.11 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 40 | 2.05 | 0.11 | 0.00 | 0.11 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 41 | 2.11 | 0.12 | 0.00 | 0.12 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 42 | 2.20 | 0.12 | 0.00 | 0.12 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 43 | 2.24 | 0.12 | 0.00 | 0.12 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 44 | 2.29 | 0.13 | 0.00 | 0.13 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 45 | 2.34 | 0.13 | 0.00 | 0.13 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 46 | 2.44 | 0.13 | 0.00 | 0.13 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 47 | 2.48 | 0.13 | 0.00 | 0.13 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 48 | 2.58 | 0.14 | 0.00 | 0.14 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 49 | 2.63 | 0.14 | 0.00 | 0.14 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 50 | 2.71 | 0.15 | 0.00 | 0.15 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 51 | 2.78 | 0.15 | 0.00 | 0.15 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 52 | 2.82 | 0.15 | 0.00 | 0.15 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 53 | 2.89 | 0.16 | 0.00 | 0.16 | 1.00 | 0.272 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | Yes |
| 54 | 2.96 | 0.16 | 0.00 | 0.16 | 1.00 | 0.272 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 55 | 3.03 | 0.17 | 0.00 | 0.17 | 0.99 | 0.272 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 56 | 3.11 | 0.17 | 0.00 | 0.17 | 0.99 | 0.272 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 57 | 3.19 | 0.17 | 0.00 | 0.17 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 58 | 3.25 | 0.18 | 0.00 | 0.18 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 59 | 3.35 | 0.18 | 0.00 | 0.18 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 60 | 3.41 | 0.19 | 0.00 | 0.19 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 61 | 3.50 | 0.19 | 0.00 | 0.19 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 62 | 3.59 | 0.20 | 0.00 | 0.20 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 63 | 3.69 | 0.20 | 0.00 | 0.20 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 64 | 3.79 | 0.21 | 0.00 | 0.21 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 65 | 3.88 | 0.21 | 0.00 | 0.21 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 66 | 3.97 | 0.22 | 0.00 | 0.22 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 67 | 4.07 | 0.22 | 0.00 | 0.22 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 68 | 4.14 | 0.22 | 0.00 | 0.22 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 69 | 4.17 | 0.23 | 0.00 | 0.23 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 70 | 4.26 | 0.23 | 0.00 | 0.23 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 71 | 4.32 | 0.23 | 0.00 | 0.23 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 72 | 4.37 | 0.24 | 0.00 | 0.24 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 73 | 4.42 | 0.24 | 0.00 | 0.24 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 74 | 4.51 | 0.24 | 0.00 | 0.24 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 75 | 4.61 | 0.25 | 0.00 | 0.25 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 76 | 4.65 | 0.25 | 0.00 | 0.25 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 77 | 4.74 | 0.26 | 0.00 | 0.26 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 78 | 4.80 | 0.26 | 0.00 | 0.26 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 79 | 4.89 | 0.26 | 0.00 | 0.26 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 80 | 4.95 | 0.27 | 0.00 | 0.27 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 81 | 5.04 | 0.27 | 0.00 | 0.27 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 82 | 5.13 | 0.28 | 0.00 | 0.28 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 83 | 5.18 | 0.28 | 0.00 | 0.28 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 84 | 5.28 | 0.29 | 0.00 | 0.29 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 85 | 5.32 | 0.29 | 0.00 | 0.29 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 86 | 5.42 | 0.29 | 0.00 | 0.29 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 87 | 5.51 | 0.30 | 0.00 | 0.30 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 88 | 5.60 | 0.30 | 0.00 | 0.30 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 89 | 5.66 | 0.31 | 0.00 | 0.31 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 90 | 5.76 | 0.31 | 0.00 | 0.31 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 91 | 5.85 | 0.32 | 0.00 | 0.32 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 92 | 5.92 | 0.32 | 0.00 | 0.32 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 93 | 5.95 | 0.32 | 0.00 | 0.32 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 94 | 5.97 | 0.32 | 0.00 | 0.32 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 95 | 6.02 | 0.33 | 0.00 | 0.33 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | Yes |
| 96 | 6.06 | 0.33 | 0.00 | 0.33 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97 | 6.16 | 0.33 | 0.00 | 0.33 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | Yes |
| 98 | 6.21 | 0.34 | 0.00 | 0.34 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | Yes |
| 99 | 6.26 | 0.34 | 0.00 | 0.34 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | Yes |
| 100 | 6.31 | 0.34 | 0.00 | 0.34 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | Yes |
| 101 | 6.40 | 0.35 | 0.00 | 0.35 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | Yes |
| 102 | 6.44 | 0.35 | 0.00 | 0.35 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | Yes |
| 103 | 6.52 | 0.35 | 0.00 | 0.35 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | Yes |
| 104 | 6.57 | 0.36 | 0.00 | 0.36 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | Yes |
| 105 | 6.64 | 0.36 | 0.00 | 0.36 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | Yes |
| 106 | 6.69 | 0.36 | 0.00 | 0.36 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | Yes |
| 107 | 6.78 | 0.37 | 0.00 | 0.37 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | Yes |
| 108 | 6.83 | 0.37 | 0.00 | 0.37 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | Yes |
| 109 | 6.92 | 0.37 | 0.00 | 0.37 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 110 | 6.97 | 0.38 | 0.00 | 0.38 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 111 | 7.03 | 0.38 | 0.00 | 0.38 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 112 | 7.12 | 0.38 | 0.00 | 0.38 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 113 | 7.22 | 0.39 | 0.00 | 0.39 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 114 | 7.27 | 0.39 | 0.00 | 0.39 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 115 | 7.36 | 0.40 | 0.00 | 0.40 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 116 | 7.43 | 0.40 | 0.00 | 0.40 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 117 | 7.50 | 0.41 | 0.00 | 0.41 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 118 | 7.59 | 0.41 | 0.00 | 0.41 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 119 | 7.64 | 0.41 | 0.00 | 0.41 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 120 | 7.75 | 0.42 | 0.00 | 0.42 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 121 | 7.79 | 0.42 | 0.00 | 0.42 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 122 | 7.89 | 0.43 | 0.00 | 0.43 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 123 | 7.99 | 0.43 | 0.00 | 0.43 | 0.98 | 0.268 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 124 | 8.04 | 0.43 | 0.00 | 0.43 | 0.98 | 0.268 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 125 | 8.13 | 0.44 | 0.00 | 0.44 | 0.98 | 0.268 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 126 | 8.23 | 0.44 | 0.00 | 0.44 | 0.98 | 0.268 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 127 | 8.32 | 0.45 | 0.00 | 0.45 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 128 | 8.37 | 0.45 | 0.00 | 0.45 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 129 | 8.46 | 0.46 | 0.00 | 0.46 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 130 | 8.56 | 0.46 | 0.00 | 0.46 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 131 | 8.59 | 0.46 | 0.00 | 0.46 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 132 | 8.61 | 0.47 | 0.00 | 0.47 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 133 | 8.67 | 0.47 | 0.00 | 0.47 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 134 | 8.71 | 0.47 | 0.00 | 0.47 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 135 | 8.72 | 0.47 | 0.00 | 0.47 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 136 | 8.78 | 0.47 | 0.00 | 0.47 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 137 | 8.80 | 0.48 | 0.00 | 0.48 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 138 | 8.86 | 0.48 | 0.00 | 0.48 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 139 | 8.90 | 0.48 | 0.00 | 0.48 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 140 | 8.95 | 0.48 | 0.00 | 0.48 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 141 | 8.96 | 0.48 | 0.00 | 0.48 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 142 | 9.00 | 0.49 | 0.00 | 0.49 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 143 | 9.05 | 0.49 | 0.00 | 0.49 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 144 | 9.09 | 0.49 | 0.00 | 0.49 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 145 | 9.10 | 0.49 | 0.00 | 0.49 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 146 | 9.14 | 0.49 | 0.00 | 0.49 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 147 | 9.20 | 0.50 | 0.00 | 0.50 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 148 | 9.24 | 0.50 | 0.00 | 0.50 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 149 | 9.29 | 0.50 | 0.00 | 0.50 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 150 | 9.31 | 0.50 | 0.00 | 0.50 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 151 | 9.38 | 0.51 | 0.00 | 0.51 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | Yes |
| 152 | 9.41 | 0.51 | 0.00 | 0.51 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | Yes |
| 153 | 9.47 | 0.51 | 0.00 | 0.51 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | Yes |
| 154 | 9.53 | 0.52 | 0.00 | 0.52 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | Yes |
| 155 | 9.62 | 0.52 | 0.00 | 0.52 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | Yes |
| 156 | 9.67 | 0.52 | 0.00 | 0.52 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | Yes |
| 157 | 9.77 | 0.53 | 0.00 | 0.53 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | Yes |
| 158 | 9.81 | 0.53 | 0.00 | 0.53 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | Yes |
| 159 | 9.90 | 0.54 | 0.00 | 0.54 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | Yes |
| 160 | 9.97 | 0.54 | 0.00 | 0.54 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | Yes |
| 161 | 10.06 | 0.55 | 0.00 | 0.55 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 162 | 10.20 | 0.55 | 0.00 | 0.55 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | Yes |
| 163 | 10.30 | 0.56 | 0.00 | 0.56 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | Yes |
| 164 | 10.44 | 0.57 | 0.00 | 0.57 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | Yes |
| 165 | 10.54 | 0.57 | 0.00 | 0.57 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | Yes |
| 166 | 10.63 | 0.58 | 0.00 | 0.58 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | Yes |
| 167 | 10.74 | 0.58 | 0.00 | 0.58 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | Yes |
| 168 | 10.78 | 0.59 | 0.00 | 0.59 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | Yes |
| 169 | 10.83 | 0.59 | 0.00 | 0.59 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | Yes |
| 170 | 10.88 | 0.59 | 0.00 | 0.59 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | Yes |
| 171 | 10.89 | 0.59 | 0.00 | 0.59 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | Yes |
| 172 | 10.97 | 0.60 | 0.00 | 0.60 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 173 | 11.02 | 0.60 | 0.00 | 0.60 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 174 | 11.07 | 0.60 | 0.00 | 0.60 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 175 | 11.11 | 0.60 | 0.00 | 0.60 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 176 | 11.16 | 0.61 | 0.00 | 0.61 | 0.98 | 0.267 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 177 | 11.21 | 0.61 | 0.00 | 0.61 | 0.98 | 0.267 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 178 | 11.26 | 0.61 | 0.00 | 0.61 | 0.98 | 0.267 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 179 | 11.30 | 0.62 | 0.00 | 0.62 | 0.98 | 0.267 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 180 | 11.36 | 0.62 | 0.00 | 0.62 | 0.98 | 0.267 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 181 | 11.40 | 0.62 | 0.00 | 0.62 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 182 | 11.45 | 0.62 | 0.00 | 0.62 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 183 | 11.50 | 0.63 | 0.00 | 0.63 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 184 | 11.55 | 0.63 | 0.00 | 0.63 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 185 | 11.60 | 0.63 | 0.00 | 0.63 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 186 | 11.66 | 0.64 | 0.00 | 0.64 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 187 | 11.74 | 0.64 | 0.00 | 0.64 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 188 | 11.84 | 0.65 | 0.00 | 0.65 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 189 | 11.93 | 0.65 | 0.00 | 0.65 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 190 | 12.04 | 0.66 | 0.00 | 0.66 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 191 | 12.13 | 0.66 | 0.00 | 0.66 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 192 | 12.22 | 0.67 | 0.00 | 0.67 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 193 | 12.27 | 0.67 | 0.00 | 0.67 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 194 | 12.37 | 0.68 | 0.00 | 0.68 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 195 | 12.41 | 0.68 | 0.00 | 0.68 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 196 | 12.51 | 0.69 | 0.00 | 0.69 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 197 | 12.56 | 0.69 | 0.00 | 0.69 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 198 | 12.65 | 0.69 | 0.00 | 0.69 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 199 | 12.71 | 0.70 | 0.00 | 0.70 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 200 | 12.79 | 0.70 | 0.00 | 0.70 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 201 | 12.89 | 0.71 | 0.00 | 0.71 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 202 | 12.96 | 0.71 | 0.00 | 0.71 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 203 | 13.04 | 0.72 | 0.00 | 0.72 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | Yes |
| 204 | 13.13 | 0.72 | 0.00 | 0.72 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | Yes |
| 205 | 13.23 | 0.73 | 0.00 | 0.73 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | Yes |
| 206 | 13.30 | 0.73 | 0.00 | 0.73 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | Yes |
| 207 | 13.37 | 0.74 | 0.00 | 0.74 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | Yes |
| 208 | 13.47 | 0.74 | 0.00 | 0.74 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | Yes |
| 209 | 13.57 | 0.75 | 0.00 | 0.75 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 210 | 13.61 | 0.75 | 0.00 | 0.75 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 211 | 13.62 | 0.75 | 0.00 | 0.75 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 212 | 13.68 | 0.75 | 0.00 | 0.75 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 213 | 13.73 | 0.76 | 0.00 | 0.76 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 214 | 13.77 | 0.76 | 0.00 | 0.76 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 215 | 13.87 | 0.77 | 0.00 | 0.77 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 216 | 13.93 | 0.77 | 0.00 | 0.77 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 217 | 14.00 | 0.77 | 0.00 | 0.77 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 218 | 14.06 | 0.78 | 0.00 | 0.78 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 219 | 14.12 | 0.78 | 0.00 | 0.78 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 220 | 14.21 | 0.79 | 0.00 | 0.79 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 221 | 14.25 | 0.79 | 0.00 | 0.79 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 222 | 14.35 | 0.79 | 0.00 | 0.79 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 223 | 14.45 | 0.80 | 0.00 | 0.80 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 224 | 14.50 | 0.80 | 0.00 | 0.80 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 225 | 14.59 | 0.81 | 0.00 | 0.81 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 226 | 14.64 | 0.81 | 0.00 | 0.81 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 227 | 14.74 | 0.82 | 0.00 | 0.82 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 228 | 14.80 | 0.82 | 0.00 | 0.82 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 229 | 14.88 | 0.83 | 0.00 | 0.83 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 230 | 14.97 | 0.83 | 0.00 | 0.83 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 231 | 15.05 | 0.84 | 0.00 | 0.84 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 232 | 15.13 | 0.84 | 0.00 | 0.84 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 233 | 15.21 | 0.85 | 0.00 | 0.85 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 234 | 15.28 | 0.85 | 0.00 | 0.85 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 235 | 15.36 | 0.86 | 0.00 | 0.86 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 236 | 15.41 | 0.86 | 0.00 | 0.86 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 237 | 15.50 | 0.86 | 0.00 | 0.86 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 238 | 15.55 | 0.87 | 0.00 | 0.87 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 239 | 15.65 | 0.87 | 0.00 | 0.87 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 240 | 15.71 | 0.88 | 0.00 | 0.88 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 241 | 15.79 | 0.88 | 0.00 | 0.88 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 242 | 15.89 | 0.89 | 0.00 | 0.89 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 243 | 15.90 | 0.89 | 0.00 | 0.89 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 244 | 15.94 | 0.89 | 0.00 | 0.89 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 245 | 16.00 | 0.89 | 0.00 | 0.89 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 246 | 16.06 | 0.90 | 0.00 | 0.90 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 247 | 16.14 | 0.90 | 0.00 | 0.90 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 248 | 16.19 | 0.90 | 0.00 | 0.90 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 249 | 16.26 | 0.91 | 0.00 | 0.91 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 250 | 16.33 | 0.91 | 0.00 | 0.91 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 251 | 16.38 | 0.91 | 0.00 | 0.91 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 252 | 16.47 | 0.92 | 0.00 | 0.92 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 253 | 16.54 | 0.92 | 0.00 | 0.92 | 0.97 | 0.263 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 254 | 16.62 | 0.93 | 0.00 | 0.93 | 0.97 | 0.263 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 255 | 16.70 | 0.93 | 0.00 | 0.93 | 0.96 | 0.263 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 256 | 16.76 | 0.94 | 0.00 | 0.94 | 0.96 | 0.263 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 257 | 16.86 | 0.94 | 0.00 | 0.94 | 0.96 | 0.263 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 258 | 16.90 | 0.94 | 0.00 | 0.94 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 259 | 16.98 | 0.95 | 0.00 | 0.95 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 260 | 17.05 | 0.95 | 0.00 | 0.95 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 261 | 17.14 | 0.96 | 0.00 | 0.96 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 262 | 17.20 | 0.96 | 0.00 | 0.96 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 263 | 17.29 | 0.97 | 0.00 | 0.97 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 264 | 17.34 | 0.97 | 0.00 | 0.97 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 265 | 17.44 | 0.98 | 0.00 | 0.98 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 266 | 17.50 | 0.98 | 0.00 | 0.98 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 267 | 17.58 | 0.98 | 0.00 | 0.98 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 268 | 17.64 | 0.99 | 0.00 | 0.99 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 269 | 17.75 | 0.99 | 0.00 | 0.99 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 270 | 17.82 | 1.00 | 0.00 | 1.00 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 271 | 17.89 | 1.00 | 0.00 | 1.00 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 272 | 17.89 | 1.00 | 0.00 | 1.00 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 273 | 17.96 | 1.01 | 0.00 | 1.01 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 274 | 18.02 | 1.01 | 0.00 | 1.01 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 275 | 18.07 | 1.01 | 0.00 | 1.01 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 276 | 18.17 | 1.02 | 0.00 | 1.02 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 277 | 18.22 | 1.02 | 0.00 | 1.02 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 278 | 18.30 | 1.03 | 0.00 | 1.03 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 279 | 18.36 | 1.03 | 0.00 | 1.03 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 280 | 18.42 | 1.03 | 0.00 | 1.03 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 281 | 18.50 | 1.04 | 0.00 | 1.04 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 282 | 18.56 | 1.04 | 0.00 | 1.04 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 283 | 18.62 | 1.05 | 0.00 | 1.05 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 284 | 18.69 | 1.05 | 0.00 | 1.05 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 285 | 18.76 | 1.05 | 0.00 | 1.05 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 286 | 18.84 | 1.06 | 0.00 | 1.06 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 287 | 18.89 | 1.06 | 0.00 | 1.06 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 288 | 18.98 | 1.07 | 0.00 | 1.07 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 289 | 19.05 | 1.07 | 0.00 | 1.07 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 290 | 19.12 | 1.08 | 0.00 | 1.08 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 291 | 19.18 | 1.08 | 0.00 | 1.08 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 292 | 19.24 | 1.08 | 0.00 | 1.08 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 293 | 19.32 | 1.09 | 0.00 | 1.09 | 0.96 | 0.262 | 1.68 | 0.156 | 0.99 | 1.10 | 2.000 | No |
| 294 | 19.38 | 1.09 | 0.00 | 1.09 | 0.96 | 0.262 | 1.68 | 0.156 | 0.99 | 1.10 | 2.000 | No |
| 295 | 19.46 | 1.10 | 0.00 | 1.10 | 0.96 | 0.262 | 1.68 | 0.156 | 0.99 | 1.10 | 2.000 | No |
| 296 | 19.54 | 1.10 | 0.00 | 1.10 | 0.96 | 0.262 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | No |
| 297 | 19.62 | 1.11 | 0.00 | 1.11 | 0.96 | 0.262 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | No |
| 298 | 19.70 | 1.11 | 0.00 | 1.11 | 0.96 | 0.261 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | No |
| 299 | 19.80 | 1.12 | 0.00 | 1.12 | 0.96 | 0.261 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | No |
| 300 | 19.85 | 1.12 | 0.00 | 1.12 | 0.96 | 0.261 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | No |
| 301 | 19.94 | 1.13 | 0.00 | 1.13 | 0.96 | 0.261 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | No |
| 302 | 20.03 | 1.13 | 0.00 | 1.13 | 0.96 | 0.261 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | No |
| 303 | 20.13 | 1.14 | 0.00 | 1.14 | 0.96 | 0.261 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | No |
| 304 | 20.19 | 1.14 | 0.00 | 1.14 | 0.96 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 305 | 20.29 | 1.15 | 0.00 | 1.15 | 0.96 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 306 | 20.39 | 1.16 | 0.00 | 1.16 | 0.96 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 307 | 20.43 | 1.16 | 0.00 | 1.16 | 0.96 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 308 | 20.47 | 1.16 | 0.00 | 1.16 | 0.96 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 309 | 20.52 | 1.16 | 0.00 | 1.16 | 0.96 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 310 | 20.61 | 1.17 | 0.00 | 1.17 | 0.96 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 311 | 20.66 | 1.17 | 0.00 | 1.17 | 0.96 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 312 | 20.71 | 1.18 | 0.00 | 1.18 | 0.96 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 313 | 20.77 | 1.18 | 0.00 | 1.18 | 0.95 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 314 | 20.85 | 1.18 | 0.00 | 1.18 | 0.95 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 315 | 20.91 | 1.19 | 0.00 | 1.19 | 0.95 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 316 | 21.00 | 1.19 | 0.00 | 1.19 | 0.95 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 317 | 21.05 | 1.20 | 0.00 | 1.20 | 0.95 | 0.260 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 318 | 21.11 | 1.20 | 0.00 | 1.20 | 0.95 | 0.260 | 1.68 | 0.155 | 0.97 | 1.10 | 2.000 | No |
| 319 | 21.19 | 1.21 | 0.00 | 1.21 | 0.95 | 0.260 | 1.68 | 0.155 | 0.97 | 1.10 | 2.000 | No |
| 320 | 21.24 | 1.21 | 0.00 | 1.21 | 0.95 | 0.260 | 1.68 | 0.155 | 0.97 | 1.10 | 2.000 | No |
| 321 | 21.34 | 1.22 | 0.00 | 1.22 | 0.95 | 0.260 | 1.68 | 0.155 | 0.97 | 1.10 | 2.000 | No |
| 322 | 21.39 | 1.22 | 0.00 | 1.22 | 0.95 | 0.260 | 1.68 | 0.155 | 0.97 | 1.10 | 2.000 | No |
| 323 | 21.48 | 1.22 | 0.00 | 1.22 | 0.95 | 0.260 | 1.68 | 0.155 | 0.97 | 1.10 | 2.000 | No |
| 324 | 21.53 | 1.23 | 0.00 | 1.23 | 0.95 | 0.260 | 1.68 | 0.155 | 0.97 | 1.10 | 2.000 | No |
| 325 | 21.64 | 1.23 | 0.00 | 1.23 | 0.95 | 0.260 | 1.68 | 0.155 | 0.97 | 1.10 | 2.000 | No |
| 326 | 21.72 | 1.24 | 0.00 | 1.24 | 0.95 | 0.260 | 1.68 | 0.155 | 0.97 | 1.10 | 2.000 | No |
| 327 | 21.81 | 1.24 | 0.00 | 1.24 | 0.95 | 0.260 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 328 | 21.89 | 1.25 | 0.00 | 1.25 | 0.95 | 0.260 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 329 | 21.97 | 1.25 | 0.00 | 1.25 | 0.95 | 0.260 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 330 | 22.05 | 1.26 | 0.00 | 1.26 | 0.95 | 0.260 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 331 | 22.12 | 1.26 | 0.00 | 1.26 | 0.95 | 0.260 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 332 | 22.13 | 1.26 | 0.00 | 1.26 | 0.95 | 0.260 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 333 | 22.18 | 1.27 | 0.00 | 1.27 | 0.95 | 0.260 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 334 | 22.22 | 1.27 | 0.00 | 1.27 | 0.95 | 0.260 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 335 | 22.28 | 1.27 | 0.00 | 1.27 | 0.95 | 0.260 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 336 | 22.33 | 1.28 | 0.00 | 1.28 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 337 | 22.38 | 1.28 | 0.00 | 1.28 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 338 | 22.41 | 1.28 | 0.00 | 1.28 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 339 | 22.51 | 1.29 | 0.00 | 1.29 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 340 | 22.56 | 1.29 | 0.00 | 1.29 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 341 | 22.61 | 1.29 | 0.00 | 1.29 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 342 | 22.65 | 1.30 | 0.00 | 1.30 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 343 | 22.71 | 1.30 | 0.00 | 1.30 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 344 | 22.76 | 1.30 | 0.00 | 1.30 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 345 | 22.85 | 1.31 | 0.00 | 1.31 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 346 | 22.89 | 1.31 | 0.00 | 1.31 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 347 | 22.99 | 1.32 | 0.00 | 1.32 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 348 | 23.04 | 1.32 | 0.00 | 1.32 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 349 | 23.12 | 1.33 | 0.00 | 1.33 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 350 | 23.18 | 1.33 | 0.00 | 1.33 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 351 | 23.24 | 1.33 | 0.00 | 1.33 | 0.95 | 0.259 | 1.68 | 0.154 | 0.95 | 1.10 | 2.000 | No |
| 352 | 23.33 | 1.34 | 0.00 | 1.34 | 0.95 | 0.259 | 1.68 | 0.154 | 0.95 | 1.10 | 2.000 | No |
| 353 | 23.38 | 1.34 | 0.00 | 1.34 | 0.95 | 0.259 | 1.68 | 0.154 | 0.95 | 1.10 | 2.000 | No |
| 354 | 23.47 | 1.35 | 0.00 | 1.35 | 0.95 | 0.259 | 1.68 | 0.154 | 0.95 | 1.10 | 2.000 | No |
| 355 | 23.52 | 1.35 | 0.00 | 1.35 | 0.95 | 0.258 | 1.68 | 0.154 | 0.95 | 1.10 | 2.000 | No |
| 356 | 23.61 | 1.36 | 0.00 | 1.36 | 0.95 | 0.258 | 1.68 | 0.154 | 0.95 | 1.10 | 2.000 | No |
| 357 | 23.68 | 1.36 | 0.00 | 1.36 | 0.95 | 0.258 | 1.68 | 0.154 | 0.95 | 1.10 | 2.000 | No |
| 358 | 23.76 | 1.36 | 0.00 | 1.36 | 0.95 | 0.258 | 1.68 | 0.154 | 0.95 | 1.10 | 2.000 | No |
| 359 | 23.83 | 1.37 | 0.00 | 1.37 | 0.95 | 0.258 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | No |
| 360 | 23.90 | 1.37 | 0.00 | 1.37 | 0.95 | 0.258 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | No |
| 361 | 23.97 | 1.38 | 0.00 | 1.38 | 0.95 | 0.258 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | No |
| 362 | 24.05 | 1.38 | 0.00 | 1.38 | 0.95 | 0.258 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | No |
| 363 | 24.10 | 1.39 | 0.00 | 1.39 | 0.94 | 0.258 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | No |
| 364 | 24.19 | 1.39 | 0.00 | 1.39 | 0.94 | 0.258 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | No |
| 365 | 24.27 | 1.40 | 0.00 | 1.40 | 0.94 | 0.258 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | No |
| 366 | 24.34 | 1.40 | 0.00 | 1.40 | 0.94 | 0.258 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | No |
| 367 | 24.43 | 1.41 | 0.00 | 1.41 | 0.94 | 0.258 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 368 | 24.48 | 1.41 | 0.00 | 1.41 | 0.94 | 0.258 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 369 | 24.57 | 1.41 | 0.00 | 1.41 | 0.94 | 0.258 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 370 | 24.62 | 1.42 | 0.00 | 1.42 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 371 | 24.72 | 1.42 | 0.00 | 1.42 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 372 | 24.81 | 1.43 | 0.00 | 1.43 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 373 | 24.86 | 1.43 | 0.00 | 1.43 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 374 | 24.95 | 1.44 | 0.00 | 1.44 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 375 | 25.01 | 1.44 | 0.00 | 1.44 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 376 | 25.02 | 1.44 | 0.00 | 1.44 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 377 | 25.05 | 1.44 | 0.00 | 1.44 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 378 | 25.11 | 1.45 | 0.00 | 1.45 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 379 | 25.15 | 1.45 | 0.00 | 1.45 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 380 | 25.21 | 1.45 | 0.00 | 1.45 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 381 | 25.25 | 1.46 | 0.00 | 1.46 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 382 | 25.30 | 1.46 | 0.00 | 1.46 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 383 | 25.40 | 1.47 | 0.00 | 1.47 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 384 | 25.45 | 1.47 | 0.00 | 1.47 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 385 | 25.52 | 1.47 | 0.00 | 1.47 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | Yes |
| 386 | 25.60 | 1.48 | 0.00 | 1.48 | 0.94 | 0.257 | 1.68 | 0.152 | 0.94 | 1.10 | 2.000 | Yes |
| 387 | 25.66 | 1.48 | 0.00 | 1.48 | 0.94 | 0.256 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | Yes |
| 388 | 25.74 | 1.49 | 0.00 | 1.49 | 0.94 | 0.256 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | Yes |
| 389 | 25.80 | 1.49 | 0.00 | 1.49 | 0.94 | 0.256 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | Yes |
| 390 | 25.88 | 1.49 | 0.00 | 1.49 | 0.94 | 0.256 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | Yes |
| 391 | 25.94 | 1.50 | 0.00 | 1.50 | 0.94 | 0.256 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | Yes |
| 392 | 26.02 | 1.50 | 0.00 | 1.50 | 0.94 | 0.256 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | Yes |
| 393 | 26.09 | 1.51 | 0.00 | 1.51 | 0.94 | 0.256 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | No |
| 394 | 26.17 | 1.51 | 0.00 | 1.51 | 0.94 | 0.256 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | No |
| 395 | 26.23 | 1.52 | 0.00 | 1.52 | 0.94 | 0.256 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | No |
| 396 | 26.29 | 1.52 | 0.00 | 1.52 | 0.94 | 0.256 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | No |
| 397 | 26.37 | 1.52 | 0.00 | 1.52 | 0.94 | 0.256 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | No |
| 398 | 26.46 | 1.53 | 0.00 | 1.53 | 0.94 | 0.256 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | No |
| 399 | 26.55 | 1.53 | 0.00 | 1.53 | 0.94 | 0.256 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | No |
| 400 | 26.60 | 1.54 | 0.00 | 1.54 | 0.94 | 0.255 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | No |
| 401 | 26.70 | 1.54 | 0.00 | 1.54 | 0.94 | 0.255 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | No |
| 402 | 26.78 | 1.55 | 0.00 | 1.55 | 0.94 | 0.255 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | No |
| 403 | 26.87 | 1.55 | 0.00 | 1.55 | 0.93 | 0.255 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | No |
| 404 | 26.94 | 1.56 | 0.00 | 1.56 | 0.93 | 0.255 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | No |
| 405 | 27.03 | 1.56 | 0.00 | 1.56 | 0.93 | 0.255 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | No |
| 406 | 27.13 | 1.57 | 0.00 | 1.57 | 0.93 | 0.255 | 1.68 | 0.152 | 0.92 | 1.10 | 2.000 | No |
| 407 | 27.18 | 1.57 | 0.00 | 1.57 | 0.93 | 0.255 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 408 | 27.27 | 1.58 | 0.00 | 1.58 | 0.93 | 0.255 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 409 | 27.32 | 1.58 | 0.00 | 1.58 | 0.93 | 0.255 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 410 | 27.37 | 1.58 | 0.00 | 1.58 | 0.93 | 0.255 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 411 | 27.41 | 1.58 | 0.00 | 1.58 | 0.93 | 0.255 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 412 | 27.46 | 1.59 | 0.00 | 1.59 | 0.93 | 0.255 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 413 | 27.51 | 1.59 | 0.00 | 1.59 | 0.93 | 0.254 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 414 | 27.61 | 1.59 | 0.00 | 1.59 | 0.93 | 0.254 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 415 | 27.66 | 1.60 | 0.00 | 1.60 | 0.93 | 0.254 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 416 | 27.73 | 1.60 | 0.00 | 1.60 | 0.93 | 0.254 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 417 | 27.80 | 1.61 | 0.00 | 1.61 | 0.93 | 0.254 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 418 | 27.88 | 1.61 | 0.00 | 1.61 | 0.93 | 0.254 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 419 | 27.96 | 1.62 | 0.00 | 1.62 | 0.93 | 0.254 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 420 | 28.04 | 1.62 | 0.00 | 1.62 | 0.93 | 0.254 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 421 | 28.12 | 1.63 | 0.00 | 1.63 | 0.93 | 0.254 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 422 | 28.18 | 1.63 | 0.00 | 1.63 | 0.93 | 0.254 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 423 | 28.27 | 1.64 | 0.00 | 1.64 | 0.93 | 0.254 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 424 | 28.32 | 1.64 | 0.00 | 1.64 | 0.93 | 0.253 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 425 | 28.42 | 1.64 | 0.00 | 1.64 | 0.93 | 0.253 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 426 | 28.47 | 1.65 | 0.00 | 1.65 | 0.93 | 0.253 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 427 | 28.61 | 1.66 | 0.00 | 1.66 | 0.93 | 0.253 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | No |
| 428 | 28.67 | 1.66 | 0.00 | 1.66 | 0.93 | 0.253 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | Yes |
| 429 | 28.75 | 1.67 | 0.00 | 1.67 | 0.93 | 0.253 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | Yes |
| 430 | 28.81 | 1.67 | 0.00 | 1.67 | 0.93 | 0.253 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | Yes |
| 431 | 28.90 | 1.68 | 0.00 | 1.68 | 0.93 | 0.253 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | Yes |
| 432 | 29.00 | 1.68 | 0.00 | 1.68 | 0.93 | 0.253 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 433 | 29.05 | 1.68 | 0.00 | 1.68 | 0.93 | 0.253 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | Yes |
| 434 | 29.10 | 1.69 | 0.00 | 1.69 | 0.93 | 0.253 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | Yes |
| 435 | 29.15 | 1.69 | 0.00 | 1.69 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | Yes |
| 436 | 29.24 | 1.70 | 0.00 | 1.70 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | Yes |
| 437 | 29.29 | 1.70 | 0.00 | 1.70 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | Yes |
| 438 | 29.37 | 1.71 | 0.00 | 1.71 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | Yes |
| 439 | 29.43 | 1.71 | 0.00 | 1.71 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | Yes |
| 440 | 29.53 | 1.72 | 0.00 | 1.72 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | No |
| 441 | 29.62 | 1.72 | 0.00 | 1.72 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | No |
| 442 | 29.68 | 1.72 | 0.00 | 1.72 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | No |
| 443 | 29.80 | 1.73 | 0.00 | 1.73 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | No |
| 444 | 29.91 | 1.74 | 0.00 | 1.74 | 0.92 | 0.251 | 1.68 | 0.149 | 0.91 | 1.10 | 2.000 | No |
| 445 | 30.00 | 1.74 | 0.00 | 1.74 | 0.92 | 0.251 | 1.68 | 0.149 | 0.90 | 1.10 | 0.182 | No |
| 446 | 30.07 | 1.75 | 0.00 | 1.75 | 0.92 | 0.252 | 1.68 | 0.150 | 0.90 | 1.10 | 0.182 | No |
| 447 | 30.15 | 1.75 | 0.00 | 1.75 | 0.92 | 0.252 | 1.68 | 0.150 | 0.90 | 1.10 | 0.182 | No |
| 448 | 30.21 | 1.76 | 0.01 | 1.75 | 0.92 | 0.252 | 1.68 | 0.150 | 0.90 | 1.10 | 0.182 | No |
| 449 | 30.26 | 1.76 | 0.01 | 1.75 | 0.92 | 0.252 | 1.68 | 0.150 | 0.90 | 1.10 | 0.182 | No |
| 450 | 30.31 | 1.76 | 0.01 | 1.75 | 0.92 | 0.252 | 1.68 | 0.150 | 0.90 | 1.10 | 0.182 | No |
| 451 | 30.38 | 1.77 | 0.01 | 1.76 | 0.92 | 0.252 | 1.68 | 0.150 | 0.90 | 1.10 | 0.183 | No |
| 452 | 30.45 | 1.77 | 0.01 | 1.76 | 0.92 | 0.253 | 1.68 | 0.150 | 0.90 | 1.10 | 0.183 | No |
| 453 | 30.50 | 1.78 | 0.02 | 1.76 | 0.92 | 0.253 | 1.68 | 0.150 | 0.90 | 1.10 | 0.183 | No |
| 454 | 30.55 | 1.78 | 0.02 | 1.76 | 0.92 | 0.253 | 1.68 | 0.150 | 0.90 | 1.10 | 0.183 | No |
| 455 | 30.64 | 1.78 | 0.02 | 1.76 | 0.92 | 0.253 | 1.68 | 0.151 | 0.90 | 1.10 | 0.183 | No |
| 456 | 30.70 | 1.79 | 0.02 | 1.77 | 0.92 | 0.253 | 1.68 | 0.151 | 0.90 | 1.10 | 0.184 | No |
| 457 | 30.79 | 1.79 | 0.02 | 1.77 | 0.92 | 0.254 | 1.68 | 0.151 | 0.90 | 1.10 | 0.184 | No |
| 458 | 30.84 | 1.80 | 0.03 | 1.77 | 0.92 | 0.254 | 1.68 | 0.151 | 0.90 | 1.10 | 0.184 | No |
| 459 | 30.93 | 1.80 | 0.03 | 1.77 | 0.92 | 0.254 | 1.68 | 0.151 | 0.90 | 1.10 | 0.184 | No |
| 460 | 30.98 | 1.81 | 0.03 | 1.78 | 0.92 | 0.254 | 1.68 | 0.151 | 0.90 | 1.10 | 0.184 | No |
| 461 | 31.05 | 1.81 | 0.03 | 1.78 | 0.92 | 0.254 | 1.68 | 0.151 | 0.90 | 1.10 | 0.185 | No |
| 462 | 31.13 | 1.81 | 0.04 | 1.78 | 0.91 | 0.255 | 1.68 | 0.151 | 0.90 | 1.10 | 0.185 | No |
| 463 | 31.17 | 1.82 | 0.04 | 1.78 | 0.91 | 0.255 | 1.68 | 0.151 | 0.90 | 1.10 | 0.185 | No |
| 464 | 31.27 | 1.82 | 0.04 | 1.78 | 0.91 | 0.255 | 1.68 | 0.152 | 0.90 | 1.10 | 0.185 | No |
| 465 | 31.32 | 1.83 | 0.04 | 1.79 | 0.91 | 0.255 | 1.68 | 0.152 | 0.90 | 1.10 | 0.185 | No |
| 466 | 31.41 | 1.83 | 0.04 | 1.79 | 0.91 | 0.255 | 1.68 | 0.152 | 0.90 | 1.10 | 0.185 | No |
| 467 | 31.46 | 1.84 | 0.05 | 1.79 | 0.91 | 0.256 | 1.68 | 0.152 | 0.90 | 1.10 | 0.186 | No |
| 468 | 31.52 | 1.84 | 0.05 | 1.79 | 0.91 | 0.256 | 1.68 | 0.152 | 0.90 | 1.10 | 0.186 | No |
| 469 | 31.61 | 1.84 | 0.05 | 1.79 | 0.91 | 0.256 | 1.68 | 0.152 | 0.90 | 1.10 | 0.186 | No |
| 470 | 31.66 | 1.85 | 0.05 | 1.80 | 0.91 | 0.256 | 1.68 | 0.152 | 0.90 | 1.10 | 0.186 | No |
| 471 | 31.75 | 1.85 | 0.05 | 1.80 | 0.91 | 0.256 | 1.68 | 0.152 | 0.90 | 1.10 | 0.186 | No |
| 472 | 31.80 | 1.86 | 0.06 | 1.80 | 0.91 | 0.256 | 1.68 | 0.152 | 0.90 | 1.10 | 0.186 | No |
| 473 | 31.90 | 1.86 | 0.06 | 1.80 | 0.91 | 0.257 | 1.68 | 0.153 | 0.90 | 1.10 | 0.187 | No |
| 474 | 31.94 | 1.87 | 0.06 | 1.81 | 0.91 | 0.257 | 1.68 | 0.153 | 0.90 | 1.10 | 0.187 | No |
| 475 | 32.04 | 1.87 | 0.06 | 1.81 | 0.91 | 0.257 | 1.68 | 0.153 | 0.90 | 1.10 | 0.187 | No |
| 476 | 32.09 | 1.87 | 0.07 | 1.81 | 0.91 | 0.257 | 1.68 | 0.153 | 0.90 | 1.10 | 0.187 | No |
| 477 | 32.20 | 1.88 | 0.07 | 1.81 | 0.91 | 0.257 | 1.68 | 0.153 | 0.90 | 1.10 | 0.187 | No |
| 478 | 32.24 | 1.88 | 0.07 | 1.81 | 0.91 | 0.258 | 1.68 | 0.153 | 0.90 | 1.10 | 0.188 | No |
| 479 | 32.28 | 1.89 | 0.07 | 1.82 | 0.91 | 0.258 | 1.68 | 0.153 | 0.90 | 1.10 | 0.188 | No |
| 480 | 32.29 | 1.89 | 0.07 | 1.82 | 0.91 | 0.258 | 1.68 | 0.153 | 0.90 | 1.10 | 0.188 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 481 | 32.30 | 1.89 | 0.07 | 1.82 | 0.91 | 0.258 | 1.68 | 0.153 | 0.90 | 1.10 | 0.188 | No |
| 482 | 32.40 | 1.89 | 0.07 | 1.82 | 0.91 | 0.258 | 1.68 | 0.153 | 0.90 | 1.10 | 0.188 | No |
| 483 | 32.45 | 1.90 | 0.08 | 1.82 | 0.91 | 0.258 | 1.68 | 0.153 | 0.90 | 1.10 | 0.188 | No |
| 484 | 32.55 | 1.90 | 0.08 | 1.82 | 0.91 | 0.258 | 1.68 | 0.154 | 0.90 | 1.10 | 0.188 | No |
| 485 | 32.59 | 1.91 | 0.08 | 1.83 | 0.91 | 0.258 | 1.68 | 0.154 | 0.90 | 1.10 | 0.188 | No |
| 486 | 32.69 | 1.91 | 0.08 | 1.83 | 0.91 | 0.259 | 1.68 | 0.154 | 0.90 | 1.10 | 0.189 | No |
| 487 | 32.76 | 1.92 | 0.09 | 1.83 | 0.91 | 0.259 | 1.68 | 0.154 | 0.90 | 1.10 | 0.189 | No |
| 488 | 32.84 | 1.92 | 0.09 | 1.83 | 0.90 | 0.259 | 1.68 | 0.154 | 0.90 | 1.10 | 0.189 | No |
| 489 | 32.90 | 1.93 | 0.09 | 1.84 | 0.90 | 0.259 | 1.68 | 0.154 | 0.90 | 1.10 | 0.189 | No |
| 490 | 32.98 | 1.93 | 0.09 | 1.84 | 0.90 | 0.259 | 1.68 | 0.154 | 0.90 | 1.10 | 0.189 | No |
| 491 | 33.06 | 1.94 | 0.10 | 1.84 | 0.90 | 0.259 | 1.68 | 0.154 | 0.90 | 1.10 | 0.189 | No |
| 492 | 33.12 | 1.94 | 0.10 | 1.84 | 0.90 | 0.260 | 1.68 | 0.154 | 0.89 | 1.10 | 0.190 | No |
| 493 | 33.22 | 1.95 | 0.10 | 1.85 | 0.90 | 0.260 | 1.68 | 0.154 | 0.89 | 1.10 | 0.190 | No |
| 494 | 33.31 | 1.95 | 0.10 | 1.85 | 0.90 | 0.260 | 1.68 | 0.155 | 0.89 | 1.10 | 0.190 | No |
| 495 | 33.37 | 1.96 | 0.10 | 1.85 | 0.90 | 0.260 | 1.68 | 0.155 | 0.89 | 1.10 | 0.190 | No |
| 496 | 33.46 | 1.96 | 0.11 | 1.85 | 0.90 | 0.260 | 1.68 | 0.155 | 0.89 | 1.10 | 0.190 | No |
| 497 | 33.55 | 1.97 | 0.11 | 1.86 | 0.90 | 0.260 | 1.68 | 0.155 | 0.89 | 1.10 | 0.191 | No |
| 498 | 33.65 | 1.97 | 0.11 | 1.86 | 0.90 | 0.261 | 1.68 | 0.155 | 0.89 | 1.10 | 0.191 | No |
| 499 | 33.70 | 1.98 | 0.12 | 1.86 | 0.90 | 0.261 | 1.68 | 0.155 | 0.89 | 1.10 | 0.191 | No |
| 500 | 33.79 | 1.98 | 0.12 | 1.86 | 0.90 | 0.261 | 1.68 | 0.155 | 0.89 | 1.10 | 0.191 | No |
| 501 | 33.89 | 1.99 | 0.12 | 1.87 | 0.90 | 0.261 | 1.68 | 0.155 | 0.89 | 1.10 | 0.191 | No |
| 502 | 33.99 | 2.00 | 0.12 | 1.87 | 0.90 | 0.261 | 1.68 | 0.155 | 0.89 | 1.10 | 0.191 | No |
| 503 | 34.04 | 2.00 | 0.13 | 1.87 | 0.90 | 0.261 | 1.68 | 0.155 | 0.89 | 1.10 | 0.192 | No |
| 504 | 34.13 | 2.00 | 0.13 | 1.88 | 0.90 | 0.262 | 1.68 | 0.155 | 0.89 | 1.10 | 0.192 | No |
| 505 | 34.23 | 2.01 | 0.13 | 1.88 | 0.90 | 0.262 | 1.68 | 0.156 | 0.89 | 1.10 | 0.192 | No |
| 506 | 34.32 | 2.02 | 0.13 | 1.88 | 0.90 | 0.262 | 1.68 | 0.156 | 0.89 | 1.10 | 0.192 | No |
| 507 | 34.37 | 2.02 | 0.14 | 1.88 | 0.89 | 0.262 | 1.68 | 0.156 | 0.89 | 1.10 | 0.192 | No |
| 508 | 34.47 | 2.03 | 0.14 | 1.89 | 0.89 | 0.262 | 1.68 | 0.156 | 0.89 | 1.10 | 0.192 | No |
| 509 | 34.55 | 2.03 | 0.14 | 1.89 | 0.89 | 0.262 | 1.68 | 0.156 | 0.89 | 1.10 | 2.000 | Yes |
| 510 | 34.63 | 2.04 | 0.14 | 1.89 | 0.89 | 0.262 | 1.68 | 0.156 | 0.89 | 1.10 | 2.000 | Yes |
| 511 | 34.73 | 2.04 | 0.15 | 1.90 | 0.89 | 0.263 | 1.68 | 0.156 | 0.89 | 1.10 | 2.000 | Yes |
| 512 | 34.80 | 2.05 | 0.15 | 1.90 | 0.89 | 0.263 | 1.68 | 0.156 | 0.89 | 1.10 | 2.000 | Yes |
| 513 | 34.90 | 2.05 | 0.15 | 1.90 | 0.89 | 0.263 | 1.68 | 0.156 | 0.89 | 1.10 | 2.000 | Yes |
| 514 | 35.00 | 2.06 | 0.16 | 1.90 | 0.89 | 0.263 | 1.68 | 0.156 | 0.89 | 1.10 | 0.193 | No |
| 515 | 35.12 | 2.07 | 0.16 | 1.91 | 0.89 | 0.263 | 1.68 | 0.156 | 0.89 | 1.10 | 0.194 | No |
| 516 | 35.20 | 2.07 | 0.16 | 1.91 | 0.89 | 0.263 | 1.68 | 0.157 | 0.89 | 1.10 | 0.194 | No |
| 517 | 35.33 | 2.08 | 0.17 | 1.91 | 0.89 | 0.264 | 1.68 | 0.157 | 0.89 | 1.10 | 2.000 | Yes |
| 518 | 35.41 | 2.08 | 0.17 | 1.92 | 0.89 | 0.264 | 1.68 | 0.157 | 0.89 | 1.10 | 2.000 | Yes |
| 519 | 35.44 | 2.09 | 0.17 | 1.92 | 0.89 | 0.264 | 1.68 | 0.157 | 0.89 | 1.10 | 2.000 | Yes |
| 520 | 35.48 | 2.09 | 0.17 | 1.92 | 0.89 | 0.264 | 1.68 | 0.157 | 0.89 | 1.10 | 2.000 | Yes |
| 521 | 35.57 | 2.10 | 0.17 | 1.92 | 0.89 | 0.264 | 1.68 | 0.157 | 0.89 | 1.10 | 2.000 | Yes |
| 522 | 35.62 | 2.10 | 0.18 | 1.92 | 0.89 | 0.264 | 1.68 | 0.157 | 0.89 | 1.10 | 2.000 | Yes |
| 523 | 35.67 | 2.10 | 0.18 | 1.92 | 0.89 | 0.264 | 1.68 | 0.157 | 0.89 | 1.10 | 2.000 | Yes |
| 524 | 35.71 | 2.10 | 0.18 | 1.93 | 0.89 | 0.264 | 1.68 | 0.157 | 0.89 | 1.10 | 2.000 | Yes |
| 525 | 35.82 | 2.11 | 0.18 | 1.93 | 0.88 | 0.264 | 1.68 | 0.157 | 0.89 | 1.10 | 2.000 | Yes |
| 526 | 35.86 | 2.11 | 0.18 | 1.93 | 0.88 | 0.264 | 1.68 | 0.157 | 0.89 | 1.10 | 2.000 | Yes |
| 527 | 35.93 | 2.12 | 0.19 | 1.93 | 0.88 | 0.264 | 1.68 | 0.157 | 0.89 | 1.10 | 2.000 | Yes |
| 528 | 36.01 | 2.12 | 0.19 | 1.94 | 0.88 | 0.265 | 1.68 | 0.157 | 0.89 | 1.10 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 529 | 36.06 | 2.13 | 0.19 | 1.94 | 0.88 | 0.265 | 1.68 | 0.157 | 0.89 | 1.10 | 2.000 | Yes |
| 530 | 36.12 | 2.13 | 0.19 | 1.94 | 0.88 | 0.265 | 1.68 | 0.157 | 0.89 | 1.10 | 0.195 | No |
| 531 | 36.18 | 2.13 | 0.19 | 1.94 | 0.88 | 0.265 | 1.68 | 0.157 | 0.89 | 1.10 | 0.195 | No |
| 532 | 36.25 | 2.14 | 0.19 | 1.94 | 0.88 | 0.265 | 1.68 | 0.157 | 0.89 | 1.10 | 0.196 | No |
| 533 | 36.30 | 2.14 | 0.20 | 1.95 | 0.88 | 0.265 | 1.68 | 0.157 | 0.89 | 1.10 | 0.196 | No |
| 534 | 36.39 | 2.15 | 0.20 | 1.95 | 0.88 | 0.265 | 1.68 | 0.158 | 0.89 | 1.10 | 0.196 | No |
| 535 | 36.44 | 2.15 | 0.20 | 1.95 | 0.88 | 0.265 | 1.68 | 0.158 | 0.88 | 1.10 | 0.196 | No |
| 536 | 36.53 | 2.16 | 0.20 | 1.95 | 0.88 | 0.265 | 1.68 | 0.158 | 0.88 | 1.10 | 0.196 | No |
| 537 | 36.59 | 2.16 | 0.21 | 1.96 | 0.88 | 0.265 | 1.68 | 0.158 | 0.88 | 1.10 | 0.196 | No |
| 538 | 36.68 | 2.17 | 0.21 | 1.96 | 0.88 | 0.265 | 1.68 | 0.158 | 0.88 | 1.10 | 0.196 | No |
| 539 | 36.75 | 2.17 | 0.21 | 1.96 | 0.88 | 0.265 | 1.68 | 0.158 | 0.88 | 1.10 | 0.196 | No |
| 540 | 36.83 | 2.18 | 0.21 | 1.96 | 0.88 | 0.265 | 1.68 | 0.158 | 0.88 | 1.10 | 0.196 | No |
| 541 | 36.90 | 2.18 | 0.22 | 1.97 | 0.88 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 0.197 | No |
| 542 | 36.97 | 2.19 | 0.22 | 1.97 | 0.88 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 0.197 | No |
| 543 | 37.02 | 2.19 | 0.22 | 1.97 | 0.88 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 0.197 | No |
| 544 | 37.04 | 2.19 | 0.22 | 1.97 | 0.88 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 0.197 | No |
| 545 | 37.08 | 2.19 | 0.22 | 1.97 | 0.88 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 0.197 | No |
| 546 | 37.17 | 2.20 | 0.22 | 1.98 | 0.87 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 0.197 | No |
| 547 | 37.27 | 2.21 | 0.23 | 1.98 | 0.87 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 0.197 | No |
| 548 | 37.37 | 2.21 | 0.23 | 1.98 | 0.87 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 0.197 | No |
| 549 | 37.42 | 2.22 | 0.23 | 1.98 | 0.87 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 0.197 | No |
| 550 | 37.51 | 2.22 | 0.23 | 1.99 | 0.87 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 0.197 | No |
| 551 | 37.58 | 2.23 | 0.24 | 1.99 | 0.87 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 0.197 | No |
| 552 | 37.66 | 2.23 | 0.24 | 1.99 | 0.87 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 0.198 | No |
| 553 | 37.76 | 2.24 | 0.24 | 1.99 | 0.87 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 0.198 | No |
| 554 | 37.85 | 2.24 | 0.24 | 2.00 | 0.87 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 0.198 | No |
| 555 | 37.93 | 2.25 | 0.25 | 2.00 | 0.87 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 0.198 | No |
| 556 | 38.04 | 2.26 | 0.25 | 2.00 | 0.87 | 0.267 | 1.68 | 0.158 | 0.88 | 1.10 | 0.198 | No |
| 557 | 38.13 | 2.26 | 0.25 | 2.01 | 0.87 | 0.267 | 1.68 | 0.158 | 0.88 | 1.10 | 0.198 | No |
| 558 | 38.18 | 2.26 | 0.26 | 2.01 | 0.87 | 0.267 | 1.68 | 0.158 | 0.88 | 1.10 | 0.198 | No |
| 559 | 38.28 | 2.27 | 0.26 | 2.01 | 0.87 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.198 | No |
| 560 | 38.37 | 2.28 | 0.26 | 2.01 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.198 | No |
| 561 | 38.47 | 2.28 | 0.26 | 2.02 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.198 | No |
| 562 | 38.57 | 2.29 | 0.27 | 2.02 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 563 | 38.62 | 2.29 | 0.27 | 2.02 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 564 | 38.72 | 2.30 | 0.27 | 2.03 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 565 | 38.78 | 2.30 | 0.27 | 2.03 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 566 | 38.81 | 2.30 | 0.27 | 2.03 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 567 | 38.86 | 2.31 | 0.28 | 2.03 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 568 | 38.91 | 2.31 | 0.28 | 2.03 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 569 | 38.95 | 2.31 | 0.28 | 2.03 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 570 | 39.05 | 2.32 | 0.28 | 2.04 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 571 | 39.09 | 2.32 | 0.28 | 2.04 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 572 | 39.14 | 2.33 | 0.29 | 2.04 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 573 | 39.24 | 2.33 | 0.29 | 2.04 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 574 | 39.29 | 2.33 | 0.29 | 2.05 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 575 | 39.39 | 2.34 | 0.29 | 2.05 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 576 | 39.43 | 2.34 | 0.29 | 2.05 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 577 | 39.53 | 2.35 | 0.30 | 2.05 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.200 | No |
| 578 | 39.57 | 2.35 | 0.30 | 2.05 | 0.85 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.200 | No |
| 579 | 39.68 | 2.36 | 0.30 | 2.06 | 0.85 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.200 | No |
| 580 | 39.73 | 2.36 | 0.30 | 2.06 | 0.85 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.200 | No |
| 581 | 39.81 | 2.37 | 0.31 | 2.06 | 0.85 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.200 | No |
| 582 | 39.89 | 2.37 | 0.31 | 2.07 | 0.85 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.200 | No |
| 583 | 39.96 | 2.38 | 0.31 | 2.07 | 0.85 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.200 | No |
| 584 | 40.06 | 2.38 | 0.31 | 2.07 | 0.85 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.200 | No |
| 585 | 40.15 | 2.39 | 0.32 | 2.07 | 0.85 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.200 | No |
| 586 | 40.20 | 2.39 | 0.32 | 2.07 | 0.85 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.200 | No |
| 587 | 40.24 | 2.40 | 0.32 | 2.08 | 0.85 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.200 | No |
| 588 | 40.26 | 2.40 | 0.32 | 2.08 | 0.85 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.200 | No |
| 589 | 40.27 | 2.40 | 0.32 | 2.08 | 0.85 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.200 | No |
| 590 | 40.37 | 2.40 | 0.32 | 2.08 | 0.85 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.200 | No |
| 591 | 40.42 | 2.41 | 0.32 | 2.08 | 0.85 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.200 | No |
| 592 | 40.52 | 2.41 | 0.33 | 2.09 | 0.85 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.200 | No |
| 593 | 40.56 | 2.42 | 0.33 | 2.09 | 0.85 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.200 | No |
| 594 | 40.66 | 2.42 | 0.33 | 2.09 | 0.85 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.200 | No |
| 595 | 40.70 | 2.43 | 0.33 | 2.09 | 0.84 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.200 | No |
| 596 | 40.75 | 2.43 | 0.34 | 2.09 | 0.84 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.200 | No |
| 597 | 40.85 | 2.43 | 0.34 | 2.10 | 0.84 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.200 | No |
| 598 | 40.91 | 2.44 | 0.34 | 2.10 | 0.84 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 599 | 40.96 | 2.44 | 0.34 | 2.10 | 0.84 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 600 | 41.04 | 2.45 | 0.34 | 2.10 | 0.84 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 601 | 41.09 | 2.45 | 0.35 | 2.10 | 0.84 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 602 | 41.18 | 2.46 | 0.35 | 2.11 | 0.84 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 603 | 41.23 | 2.46 | 0.35 | 2.11 | 0.84 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 604 | 41.29 | 2.46 | 0.35 | 2.11 | 0.84 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 605 | 41.38 | 2.47 | 0.36 | 2.11 | 0.84 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 606 | 41.42 | 2.47 | 0.36 | 2.12 | 0.84 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 607 | 41.52 | 2.48 | 0.36 | 2.12 | 0.84 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 608 | 41.57 | 2.48 | 0.36 | 2.12 | 0.84 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 609 | 41.62 | 2.49 | 0.36 | 2.12 | 0.84 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 610 | 41.71 | 2.49 | 0.37 | 2.13 | 0.84 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 611 | 41.76 | 2.49 | 0.37 | 2.13 | 0.84 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 612 | 41.84 | 2.50 | 0.37 | 2.13 | 0.83 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 613 | 41.91 | 2.50 | 0.37 | 2.13 | 0.83 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 614 | 41.95 | 2.51 | 0.37 | 2.13 | 0.83 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 615 | 42.01 | 2.51 | 0.37 | 2.14 | 0.83 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 616 | 42.10 | 2.52 | 0.38 | 2.14 | 0.83 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 617 | 42.15 | 2.52 | 0.38 | 2.14 | 0.83 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 618 | 42.24 | 2.53 | 0.38 | 2.14 | 0.83 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 619 | 42.28 | 2.53 | 0.38 | 2.15 | 0.83 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 620 | 42.39 | 2.54 | 0.39 | 2.15 | 0.83 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 621 | 42.43 | 2.54 | 0.39 | 2.15 | 0.83 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 622 | 42.50 | 2.54 | 0.39 | 2.15 | 0.83 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 623 | 42.58 | 2.55 | 0.39 | 2.16 | 0.83 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 624 | 42.65 | 2.55 | 0.39 | 2.16 | 0.83 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 625 | 42.70 | 2.56 | 0.40 | 2.16 | 0.83 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 626 | 42.73 | 2.56 | 0.40 | 2.16 | 0.83 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 627 | 42.77 | 2.56 | 0.40 | 2.16 | 0.83 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 628 | 42.82 | 2.56 | 0.40 | 2.16 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 629 | 42.87 | 2.57 | 0.40 | 2.17 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 630 | 42.91 | 2.57 | 0.40 | 2.17 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 631 | 42.97 | 2.57 | 0.40 | 2.17 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 632 | 43.02 | 2.58 | 0.41 | 2.17 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 633 | 43.06 | 2.58 | 0.41 | 2.17 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 634 | 43.11 | 2.58 | 0.41 | 2.17 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 635 | 43.17 | 2.59 | 0.41 | 2.18 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 636 | 43.21 | 2.59 | 0.41 | 2.18 | 0.82 | 0.267 | 1.68 | 0.158 | 0.87 | 1.10 | 0.201 | No |
| 637 | 43.29 | 2.59 | 0.41 | 2.18 | 0.82 | 0.267 | 1.68 | 0.158 | 0.87 | 1.10 | 0.201 | No |
| 638 | 43.34 | 2.60 | 0.42 | 2.18 | 0.82 | 0.267 | 1.68 | 0.158 | 0.87 | 1.10 | 0.201 | No |
| 639 | 43.39 | 2.60 | 0.42 | 2.18 | 0.82 | 0.267 | 1.68 | 0.158 | 0.87 | 1.10 | 0.201 | No |
| 640 | 43.45 | 2.61 | 0.42 | 2.19 | 0.82 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 641 | 43.51 | 2.61 | 0.42 | 2.19 | 0.82 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 642 | 43.59 | 2.61 | 0.42 | 2.19 | 0.82 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 643 | 43.64 | 2.62 | 0.43 | 2.19 | 0.82 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 644 | 43.70 | 2.62 | 0.43 | 2.19 | 0.82 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 645 | 43.78 | 2.63 | 0.43 | 2.20 | 0.82 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 646 | 43.88 | 2.63 | 0.43 | 2.20 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 647 | 43.94 | 2.64 | 0.43 | 2.20 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.202 | No |
| 648 | 44.04 | 2.64 | 0.44 | 2.21 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.202 | No |
| 649 | 44.07 | 2.65 | 0.44 | 2.21 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.202 | No |
| 650 | 44.12 | 2.65 | 0.44 | 2.21 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.202 | No |
| 651 | 44.16 | 2.65 | 0.44 | 2.21 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.202 | No |
| 652 | 44.21 | 2.65 | 0.44 | 2.21 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.202 | No |
| 653 | 44.26 | 2.66 | 0.44 | 2.21 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.202 | No |
| 654 | 44.31 | 2.66 | 0.45 | 2.22 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.202 | No |
| 655 | 44.35 | 2.66 | 0.45 | 2.22 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.202 | No |
| 656 | 44.40 | 2.67 | 0.45 | 2.22 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.202 | No |
| 657 | 44.45 | 2.67 | 0.45 | 2.22 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.202 | No |
| 658 | 44.50 | 2.67 | 0.45 | 2.22 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.202 | No |
| 659 | 44.54 | 2.68 | 0.45 | 2.22 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.202 | No |
| 660 | 44.60 | 2.68 | 0.46 | 2.22 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.202 | No |
| 661 | 44.64 | 2.68 | 0.46 | 2.23 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.202 | No |
| 662 | 44.69 | 2.69 | 0.46 | 2.23 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.202 | No |
| 663 | 44.74 | 2.69 | 0.46 | 2.23 | 0.81 | 0.265 | 1.68 | 0.158 | 0.86 | 1.10 | 0.202 | No |
| 664 | 44.79 | 2.69 | 0.46 | 2.23 | 0.81 | 0.265 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 665 | 44.83 | 2.70 | 0.46 | 2.23 | 0.81 | 0.265 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 666 | 44.88 | 2.70 | 0.46 | 2.23 | 0.80 | 0.265 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 667 | 44.93 | 2.70 | 0.47 | 2.24 | 0.80 | 0.265 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 668 | 44.98 | 2.71 | 0.47 | 2.24 | 0.80 | 0.265 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 669 | 45.03 | 2.71 | 0.47 | 2.24 | 0.80 | 0.265 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 670 | 45.08 | 2.71 | 0.47 | 2.24 | 0.80 | 0.265 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 671 | 45.16 | 2.72 | 0.47 | 2.24 | 0.80 | 0.265 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 672 | 45.19 | 2.72 | 0.47 | 2.25 | 0.80 | 0.265 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 673 | 45.27 | 2.72 | 0.48 | 2.25 | 0.80 | 0.265 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 674 | 45.32 | 2.73 | 0.48 | 2.25 | 0.80 | 0.265 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 675 | 45.37 | 2.73 | 0.48 | 2.25 | 0.80 | 0.265 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 676 | 45.45 | 2.74 | 0.48 | 2.25 | 0.80 | 0.265 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 677 | 45.51 | 2.74 | 0.48 | 2.26 | 0.80 | 0.265 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 678 | 45.56 | 2.74 | 0.49 | 2.26 | 0.80 | 0.265 | 1.68 | 0.157 | 0.86 | 1.10 | 2.000 | Yes |
| 679 | 45.61 | 2.75 | 0.49 | 2.26 | 0.80 | 0.265 | 1.68 | 0.157 | 0.86 | 1.10 | 2.000 | Yes |
| 680 | 45.69 | 2.75 | 0.49 | 2.26 | 0.80 | 0.265 | 1.68 | 0.157 | 0.86 | 1.10 | 2.000 | Yes |
| 681 | 45.75 | 2.76 | 0.49 | 2.26 | 0.80 | 0.265 | 1.68 | 0.157 | 0.86 | 1.10 | 2.000 | Yes |
| 682 | 45.81 | 2.76 | 0.49 | 2.27 | 0.80 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 2.000 | Yes |
| 683 | 45.89 | 2.76 | 0.50 | 2.27 | 0.79 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 2.000 | Yes |
| 684 | 45.94 | 2.77 | 0.50 | 2.27 | 0.79 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 2.000 | Yes |
| 685 | 46.04 | 2.77 | 0.50 | 2.27 | 0.79 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 2.000 | Yes |
| 686 | 46.08 | 2.78 | 0.50 | 2.27 | 0.79 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 2.000 | Yes |
| 687 | 46.15 | 2.78 | 0.50 | 2.28 | 0.79 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 2.000 | Yes |
| 688 | 46.17 | 2.78 | 0.50 | 2.28 | 0.79 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 689 | 46.18 | 2.78 | 0.50 | 2.28 | 0.79 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 690 | 46.23 | 2.79 | 0.51 | 2.28 | 0.79 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 691 | 46.27 | 2.79 | 0.51 | 2.28 | 0.79 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 692 | 46.32 | 2.79 | 0.51 | 2.28 | 0.79 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 693 | 46.41 | 2.80 | 0.51 | 2.28 | 0.79 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 694 | 46.47 | 2.80 | 0.51 | 2.29 | 0.79 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 695 | 46.52 | 2.80 | 0.52 | 2.29 | 0.79 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 696 | 46.56 | 2.81 | 0.52 | 2.29 | 0.79 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 697 | 46.65 | 2.81 | 0.52 | 2.29 | 0.79 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 698 | 46.71 | 2.81 | 0.52 | 2.29 | 0.79 | 0.263 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 699 | 46.76 | 2.82 | 0.52 | 2.29 | 0.79 | 0.263 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 700 | 46.85 | 2.82 | 0.53 | 2.30 | 0.78 | 0.263 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 701 | 46.90 | 2.83 | 0.53 | 2.30 | 0.78 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.201 | No |
| 702 | 46.99 | 2.83 | 0.53 | 2.30 | 0.78 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.201 | No |
| 703 | 47.04 | 2.84 | 0.53 | 2.30 | 0.78 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.201 | No |
| 704 | 47.10 | 2.84 | 0.53 | 2.31 | 0.78 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.201 | No |
| 705 | 47.16 | 2.84 | 0.54 | 2.31 | 0.78 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.201 | No |
| 706 | 47.23 | 2.85 | 0.54 | 2.31 | 0.78 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.201 | No |
| 707 | 47.30 | 2.85 | 0.54 | 2.31 | 0.78 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.201 | No |
| 708 | 47.38 | 2.86 | 0.54 | 2.31 | 0.78 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.201 | No |
| 709 | 47.43 | 2.86 | 0.54 | 2.32 | 0.78 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.201 | No |
| 710 | 47.52 | 2.86 | 0.55 | 2.32 | 0.78 | 0.263 | 1.68 | 0.156 | 0.85 | 1.10 | 0.201 | No |
| 711 | 47.59 | 2.87 | 0.55 | 2.32 | 0.78 | 0.262 | 1.68 | 0.156 | 0.85 | 1.10 | 0.201 | No |
| 712 | 47.66 | 2.87 | 0.55 | 2.32 | 0.78 | 0.262 | 1.68 | 0.156 | 0.85 | 1.10 | 0.201 | No |
| 713 | 47.77 | 2.88 | 0.55 | 2.32 | 0.78 | 0.262 | 1.68 | 0.156 | 0.85 | 1.10 | 0.201 | No |
| 714 | 47.82 | 2.88 | 0.56 | 2.33 | 0.77 | 0.262 | 1.68 | 0.156 | 0.85 | 1.10 | 0.201 | No |
| 715 | 47.91 | 2.89 | 0.56 | 2.33 | 0.77 | 0.262 | 1.68 | 0.156 | 0.85 | 1.10 | 0.201 | No |
| 716 | 47.93 | 2.89 | 0.56 | 2.33 | 0.77 | 0.262 | 1.68 | 0.156 | 0.85 | 1.10 | 0.201 | No |
| 717 | 47.97 | 2.89 | 0.56 | 2.33 | 0.77 | 0.262 | 1.68 | 0.156 | 0.85 | 1.10 | 0.201 | No |
| 718 | 48.02 | 2.89 | 0.56 | 2.33 | 0.77 | 0.262 | 1.68 | 0.156 | 0.85 | 1.10 | 0.201 | No |
| 719 | 48.07 | 2.90 | 0.56 | 2.33 | 0.77 | 0.262 | 1.68 | 0.156 | 0.85 | 1.10 | 0.201 | No |
| 720 | 48.12 | 2.90 | 0.57 | 2.33 | 0.77 | 0.262 | 1.68 | 0.156 | 0.85 | 1.10 | 0.201 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 721 | 48.19 | 2.90 | 0.57 | 2.34 | 0.77 | 0.262 | 1.68 | 0.156 | 0.85 | 1.10 | 0.200 | No |
| 722 | 48.23 | 2.91 | 0.57 | 2.34 | 0.77 | 0.262 | 1.68 | 0.156 | 0.85 | 1.10 | 0.200 | No |
| 723 | 48.31 | 2.91 | 0.57 | 2.34 | 0.77 | 0.262 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 724 | 48.35 | 2.91 | 0.57 | 2.34 | 0.77 | 0.262 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 725 | 48.40 | 2.92 | 0.57 | 2.34 | 0.77 | 0.261 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 726 | 48.45 | 2.92 | 0.58 | 2.34 | 0.77 | 0.261 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 727 | 48.50 | 2.92 | 0.58 | 2.34 | 0.77 | 0.261 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 728 | 48.55 | 2.92 | 0.58 | 2.35 | 0.77 | 0.261 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 729 | 48.59 | 2.93 | 0.58 | 2.35 | 0.77 | 0.261 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 730 | 48.67 | 2.93 | 0.58 | 2.35 | 0.77 | 0.261 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 731 | 48.73 | 2.93 | 0.58 | 2.35 | 0.77 | 0.261 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 732 | 48.78 | 2.94 | 0.59 | 2.35 | 0.77 | 0.261 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 733 | 48.83 | 2.94 | 0.59 | 2.35 | 0.76 | 0.261 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 734 | 48.91 | 2.94 | 0.59 | 2.35 | 0.76 | 0.261 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 735 | 48.98 | 2.95 | 0.59 | 2.36 | 0.76 | 0.261 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 736 | 49.03 | 2.95 | 0.59 | 2.36 | 0.76 | 0.261 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 737 | 49.12 | 2.96 | 0.60 | 2.36 | 0.76 | 0.260 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 738 | 49.17 | 2.96 | 0.60 | 2.36 | 0.76 | 0.260 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 739 | 49.27 | 2.97 | 0.60 | 2.36 | 0.76 | 0.260 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 740 | 49.31 | 2.97 | 0.60 | 2.37 | 0.76 | 0.260 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 741 | 49.38 | 2.97 | 0.60 | 2.37 | 0.76 | 0.260 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 742 | 49.45 | 2.98 | 0.61 | 2.37 | 0.76 | 0.260 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 743 | 49.51 | 2.98 | 0.61 | 2.37 | 0.76 | 0.260 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 744 | 49.54 | 2.98 | 0.61 | 2.37 | 0.76 | 0.260 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 745 | 49.59 | 2.98 | 0.61 | 2.37 | 0.76 | 0.260 | 1.68 | 0.154 | 0.85 | 1.10 | 0.200 | No |
| 746 | 49.64 | 2.99 | 0.61 | 2.37 | 0.76 | 0.260 | 1.68 | 0.154 | 0.85 | 1.10 | 0.200 | No |
| 747 | 49.73 | 2.99 | 0.62 | 2.38 | 0.76 | 0.260 | 1.68 | 0.154 | 0.85 | 1.10 | 0.200 | No |
| 748 | 49.83 | 3.00 | 0.62 | 2.38 | 0.75 | 0.260 | 1.68 | 0.154 | 0.85 | 1.10 | 0.200 | No |
| 749 | 49.92 | 3.00 | 0.62 | 2.38 | 0.75 | 0.259 | 1.68 | 0.154 | 0.85 | 1.10 | 0.199 | No |
| 750 | 49.98 | 3.01 | 0.62 | 2.38 | 0.75 | 0.259 | 1.68 | 0.154 | 0.85 | 1.10 | 0.199 | No |
| 751 | 50.07 | 3.01 | 0.63 | 2.39 | 0.75 | 0.259 | 1.68 | 0.154 | 0.85 | 1.10 | 0.199 | No |
| 752 | 50.16 | 3.02 | 0.63 | 2.39 | 0.75 | 0.259 | 1.68 | 0.154 | 0.85 | 1.10 | 0.199 | No |
| 753 | 50.24 | 3.02 | 0.63 | 2.39 | 0.75 | 0.259 | 1.68 | 0.154 | 0.85 | 1.10 | 0.199 | No |
| 754 | 50.32 | 3.03 | 0.63 | 2.39 | 0.75 | 0.259 | 1.68 | 0.154 | 0.85 | 1.10 | 0.199 | No |
| 755 | 50.41 | 3.03 | 0.64 | 2.39 | 0.75 | 0.259 | 1.68 | 0.154 | 0.85 | 1.10 | 0.199 | No |
| 756 | 50.50 | 3.04 | 0.64 | 2.40 | 0.75 | 0.259 | 1.68 | 0.154 | 0.85 | 1.10 | 0.199 | No |
| 757 | 50.56 | 3.04 | 0.64 | 2.40 | 0.75 | 0.259 | 1.68 | 0.154 | 0.85 | 1.10 | 0.199 | No |
| 758 | 50.66 | 3.04 | 0.64 | 2.40 | 0.75 | 0.258 | 1.68 | 0.154 | 0.85 | 1.10 | 0.199 | No |
| 759 | 50.74 | 3.05 | 0.65 | 2.40 | 0.75 | 0.258 | 1.68 | 0.153 | 0.85 | 1.10 | 0.199 | No |
| 760 | 50.84 | 3.05 | 0.65 | 2.40 | 0.74 | 0.258 | 1.68 | 0.153 | 0.85 | 1.10 | 0.199 | No |
| 761 | 50.93 | 3.06 | 0.65 | 2.41 | 0.74 | 0.258 | 1.68 | 0.153 | 0.85 | 1.10 | 0.199 | No |
| 762 | 50.98 | 3.06 | 0.65 | 2.41 | 0.74 | 0.258 | 1.68 | 0.153 | 0.85 | 1.10 | 0.199 | No |
| 763 | 51.08 | 3.07 | 0.66 | 2.41 | 0.74 | 0.258 | 1.68 | 0.153 | 0.85 | 1.10 | 0.199 | No |
| 764 | 51.17 | 3.07 | 0.66 | 2.41 | 0.74 | 0.258 | 1.68 | 0.153 | 0.85 | 1.10 | 0.199 | No |
| 765 | 51.24 | 3.08 | 0.66 | 2.42 | 0.74 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.199 | No |
| 766 | 51.34 | 3.09 | 0.67 | 2.42 | 0.74 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.199 | No |
| 767 | 51.41 | 3.09 | 0.67 | 2.42 | 0.74 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.198 | No |
| 768 | 51.51 | 3.10 | 0.67 | 2.42 | 0.74 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.198 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 769 | 51.58 | 3.10 | 0.67 | 2.43 | 0.74 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.198 | No |
| 770 | 51.68 | 3.11 | 0.68 | 2.43 | 0.74 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.198 | No |
| 771 | 51.79 | 3.11 | 0.68 | 2.43 | 0.73 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.198 | No |
| 772 | 51.82 | 3.11 | 0.68 | 2.43 | 0.73 | 0.257 | 1.68 | 0.152 | 0.85 | 1.10 | 0.198 | No |
| 773 | 51.85 | 3.12 | 0.68 | 2.43 | 0.73 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.198 | No |
| 774 | 51.91 | 3.12 | 0.68 | 2.44 | 0.73 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.198 | No |
| 775 | 52.00 | 3.13 | 0.69 | 2.44 | 0.73 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.198 | No |
| 776 | 52.05 | 3.13 | 0.69 | 2.44 | 0.73 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.198 | No |
| 777 | 52.10 | 3.13 | 0.69 | 2.44 | 0.73 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.198 | No |
| 778 | 52.19 | 3.14 | 0.69 | 2.44 | 0.73 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.198 | No |
| 779 | 52.28 | 3.14 | 0.70 | 2.45 | 0.73 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.198 | No |
| 780 | 52.34 | 3.15 | 0.70 | 2.45 | 0.73 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.198 | No |
| 781 | 52.42 | 3.15 | 0.70 | 2.45 | 0.73 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.198 | No |
| 782 | 52.48 | 3.15 | 0.70 | 2.45 | 0.73 | 0.255 | 1.68 | 0.152 | 0.85 | 1.10 | 0.198 | No |
| 783 | 52.57 | 3.16 | 0.70 | 2.46 | 0.73 | 0.255 | 1.68 | 0.152 | 0.84 | 1.10 | 0.198 | No |
| 784 | 52.62 | 3.16 | 0.71 | 2.46 | 0.73 | 0.255 | 1.68 | 0.152 | 0.84 | 1.10 | 0.198 | No |
| 785 | 52.69 | 3.17 | 0.71 | 2.46 | 0.73 | 0.255 | 1.68 | 0.152 | 0.84 | 1.10 | 0.197 | No |
| 786 | 52.77 | 3.17 | 0.71 | 2.46 | 0.72 | 0.255 | 1.68 | 0.152 | 0.84 | 1.10 | 0.197 | No |
| 787 | 52.87 | 3.18 | 0.71 | 2.46 | 0.72 | 0.255 | 1.68 | 0.151 | 0.84 | 1.10 | 0.197 | No |
| 788 | 52.91 | 3.18 | 0.71 | 2.47 | 0.72 | 0.255 | 1.68 | 0.151 | 0.84 | 1.10 | 0.197 | No |
| 789 | 53.01 | 3.19 | 0.72 | 2.47 | 0.72 | 0.255 | 1.68 | 0.151 | 0.84 | 1.10 | 0.197 | No |
| 790 | 53.10 | 3.19 | 0.72 | 2.47 | 0.72 | 0.254 | 1.68 | 0.151 | 0.84 | 1.10 | 0.197 | No |
| 791 | 53.16 | 3.20 | 0.72 | 2.47 | 0.72 | 0.254 | 1.68 | 0.151 | 0.84 | 1.10 | 0.197 | No |
| 792 | 53.25 | 3.20 | 0.73 | 2.48 | 0.72 | 0.254 | 1.68 | 0.151 | 0.84 | 1.10 | 0.197 | No |
| 793 | 53.29 | 3.20 | 0.73 | 2.48 | 0.72 | 0.254 | 1.68 | 0.151 | 0.84 | 1.10 | 0.197 | No |
| 794 | 53.38 | 3.21 | 0.73 | 2.48 | 0.72 | 0.254 | 1.68 | 0.151 | 0.84 | 1.10 | 0.197 | No |
| 795 | 53.42 | 3.21 | 0.73 | 2.48 | 0.72 | 0.254 | 1.68 | 0.151 | 0.84 | 1.10 | 0.197 | No |
| 796 | 53.47 | 3.22 | 0.73 | 2.48 | 0.72 | 0.254 | 1.68 | 0.151 | 0.84 | 1.10 | 0.197 | No |
| 797 | 53.52 | 3.22 | 0.73 | 2.49 | 0.72 | 0.254 | 1.68 | 0.151 | 0.84 | 1.10 | 0.197 | No |
| 798 | 53.58 | 3.22 | 0.74 | 2.49 | 0.72 | 0.254 | 1.68 | 0.151 | 0.84 | 1.10 | 0.197 | No |
| 799 | 53.66 | 3.23 | 0.74 | 2.49 | 0.72 | 0.253 | 1.68 | 0.151 | 0.84 | 1.10 | 0.197 | No |
| 800 | 53.75 | 3.23 | 0.74 | 2.49 | 0.72 | 0.253 | 1.68 | 0.151 | 0.84 | 1.10 | 0.197 | No |
| 801 | 53.81 | 3.24 | 0.74 | 2.50 | 0.71 | 0.253 | 1.68 | 0.151 | 0.84 | 1.10 | 0.197 | No |
| 802 | 53.87 | 3.24 | 0.74 | 2.50 | 0.71 | 0.253 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 803 | 53.95 | 3.25 | 0.75 | 2.50 | 0.71 | 0.253 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 804 | 54.01 | 3.25 | 0.75 | 2.50 | 0.71 | 0.253 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 805 | 54.06 | 3.26 | 0.75 | 2.50 | 0.71 | 0.253 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 806 | 54.15 | 3.26 | 0.75 | 2.51 | 0.71 | 0.253 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 807 | 54.20 | 3.26 | 0.76 | 2.51 | 0.71 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 808 | 54.29 | 3.27 | 0.76 | 2.51 | 0.71 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 809 | 54.34 | 3.27 | 0.76 | 2.51 | 0.71 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 2.000 | Yes |
| 810 | 54.43 | 3.28 | 0.76 | 2.52 | 0.71 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 2.000 | Yes |
| 811 | 54.45 | 3.28 | 0.76 | 2.52 | 0.71 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 2.000 | Yes |
| 812 | 54.48 | 3.28 | 0.76 | 2.52 | 0.71 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 2.000 | Yes |
| 813 | 54.52 | 3.28 | 0.76 | 2.52 | 0.71 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 2.000 | Yes |
| 814 | 54.53 | 3.29 | 0.77 | 2.52 | 0.71 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 2.000 | Yes |
| 815 | 54.58 | 3.29 | 0.77 | 2.52 | 0.71 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 816 | 54.62 | 3.29 | 0.77 | 2.52 | 0.71 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 817 | 54.65 | 3.29 | 0.77 | 2.52 | 0.71 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 818 | 54.70 | 3.30 | 0.77 | 2.53 | 0.71 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 819 | 54.76 | 3.30 | 0.77 | 2.53 | 0.71 | 0.252 | 1.68 | 0.149 | 0.84 | 1.10 | 0.196 | No |
| 820 | 54.77 | 3.30 | 0.77 | 2.53 | 0.71 | 0.251 | 1.68 | 0.149 | 0.84 | 1.10 | 0.196 | No |
| 821 | 54.82 | 3.30 | 0.77 | 2.53 | 0.71 | 0.251 | 1.68 | 0.149 | 0.84 | 1.10 | 0.196 | No |
| 822 | 54.87 | 3.31 | 0.78 | 2.53 | 0.70 | 0.251 | 1.68 | 0.149 | 0.84 | 1.10 | 0.196 | No |
| 823 | 54.88 | 3.31 | 0.78 | 2.53 | 0.70 | 0.251 | 1.68 | 0.149 | 0.84 | 1.10 | 0.196 | No |
| 824 | 54.91 | 3.31 | 0.78 | 2.53 | 0.70 | 0.251 | 1.68 | 0.149 | 0.84 | 1.10 | 0.196 | No |
| 825 | 54.96 | 3.31 | 0.78 | 2.53 | 0.70 | 0.251 | 1.68 | 0.149 | 0.84 | 1.10 | 0.196 | No |
| 826 | 54.97 | 3.31 | 0.78 | 2.53 | 0.70 | 0.251 | 1.68 | 0.149 | 0.84 | 1.10 | 0.196 | No |
| 827 | 55.03 | 3.32 | 0.78 | 2.54 | 0.70 | 0.251 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 828 | 55.09 | 3.32 | 0.78 | 2.54 | 0.70 | 0.251 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 829 | 55.15 | 3.33 | 0.78 | 2.54 | 0.70 | 0.251 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 830 | 55.20 | 3.33 | 0.79 | 2.54 | 0.70 | 0.251 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 831 | 55.25 | 3.33 | 0.79 | 2.54 | 0.70 | 0.251 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 832 | 55.30 | 3.34 | 0.79 | 2.55 | 0.70 | 0.251 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 833 | 55.34 | 3.34 | 0.79 | 2.55 | 0.70 | 0.250 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 834 | 55.39 | 3.34 | 0.79 | 2.55 | 0.70 | 0.250 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 835 | 55.40 | 3.34 | 0.79 | 2.55 | 0.70 | 0.250 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 836 | 55.44 | 3.34 | 0.79 | 2.55 | 0.70 | 0.250 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 837 | 55.44 | 3.35 | 0.79 | 2.55 | 0.70 | 0.250 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 838 | 55.49 | 3.35 | 0.80 | 2.55 | 0.70 | 0.250 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 839 | 55.54 | 3.35 | 0.80 | 2.56 | 0.70 | 0.250 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 840 | 55.59 | 3.36 | 0.80 | 2.56 | 0.70 | 0.250 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 841 | 55.63 | 3.36 | 0.80 | 2.56 | 0.70 | 0.250 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 842 | 55.64 | 3.36 | 0.80 | 2.56 | 0.70 | 0.250 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 843 | 55.68 | 3.36 | 0.80 | 2.56 | 0.70 | 0.250 | 1.68 | 0.148 | 0.84 | 1.10 | 0.195 | No |
| 844 | 55.69 | 3.36 | 0.80 | 2.56 | 0.70 | 0.250 | 1.68 | 0.148 | 0.84 | 1.10 | 0.195 | No |
| 845 | 55.69 | 3.36 | 0.80 | 2.56 | 0.70 | 0.250 | 1.68 | 0.148 | 0.84 | 1.10 | 0.195 | No |
| 846 | 55.71 | 3.36 | 0.80 | 2.56 | 0.70 | 0.250 | 1.68 | 0.148 | 0.84 | 1.10 | 0.195 | No |
| 847 | 55.76 | 3.37 | 0.80 | 2.56 | 0.70 | 0.250 | 1.68 | 0.148 | 0.84 | 1.10 | 0.195 | No |
| 848 | 55.78 | 3.37 | 0.80 | 2.56 | 0.70 | 0.250 | 1.68 | 0.148 | 0.84 | 1.10 | 0.195 | No |
| 849 | 55.81 | 3.37 | 0.81 | 2.57 | 0.70 | 0.250 | 1.68 | 0.148 | 0.84 | 1.10 | 0.195 | No |
| 850 | 55.85 | 3.37 | 0.81 | 2.57 | 0.70 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.195 | No |
| 851 | 55.86 | 3.37 | 0.81 | 2.57 | 0.70 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.195 | No |
| 852 | 55.91 | 3.38 | 0.81 | 2.57 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.195 | No |
| 853 | 55.92 | 3.38 | 0.81 | 2.57 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.195 | No |
| 854 | 55.96 | 3.38 | 0.81 | 2.57 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.195 | No |
| 855 | 55.97 | 3.38 | 0.81 | 2.57 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.195 | No |
| 856 | 56.00 | 3.38 | 0.81 | 2.57 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.195 | No |
| 857 | 56.01 | 3.38 | 0.81 | 2.57 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.195 | No |
| 858 | 56.03 | 3.39 | 0.81 | 2.57 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.195 | No |
| 859 | 56.05 | 3.39 | 0.81 | 2.57 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.195 | No |
| 860 | 56.10 | 3.39 | 0.81 | 2.58 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.195 | No |
| 861 | 56.12 | 3.39 | 0.81 | 2.58 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.195 | No |
| 862 | 56.16 | 3.39 | 0.82 | 2.58 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.194 | No |
| 863 | 56.17 | 3.40 | 0.82 | 2.58 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.194 | No |
| 864 | 56.20 | 3.40 | 0.82 | 2.58 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.194 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 865 | 56.22 | 3.40 | 0.82 | 2.58 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.194 | No |
| 866 | 56.24 | 3.40 | 0.82 | 2.58 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.194 | No |
| 867 | 56.30 | 3.40 | 0.82 | 2.58 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.194 | No |
| 868 | 56.31 | 3.40 | 0.82 | 2.58 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.194 | No |
| 869 | 56.34 | 3.41 | 0.82 | 2.59 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.194 | No |
| 870 | 56.39 | 3.41 | 0.82 | 2.59 | 0.69 | 0.248 | 1.68 | 0.148 | 0.84 | 1.10 | 0.194 | No |
| 871 | 56.45 | 3.41 | 0.83 | 2.59 | 0.69 | 0.248 | 1.68 | 0.148 | 0.84 | 1.10 | 0.194 | No |
| 872 | 56.48 | 3.42 | 0.83 | 2.59 | 0.69 | 0.248 | 1.68 | 0.148 | 0.84 | 1.10 | 0.194 | No |
| 873 | 56.49 | 3.42 | 0.83 | 2.59 | 0.69 | 0.248 | 1.68 | 0.148 | 0.84 | 1.10 | 0.194 | No |
| 874 | 56.53 | 3.42 | 0.83 | 2.59 | 0.69 | 0.248 | 1.68 | 0.148 | 0.84 | 1.10 | 0.194 | No |
| 875 | 56.58 | 3.42 | 0.83 | 2.59 | 0.69 | 0.248 | 1.68 | 0.147 | 0.84 | 1.10 | 0.194 | No |
| 876 | 56.63 | 3.43 | 0.83 | 2.60 | 0.69 | 0.248 | 1.68 | 0.147 | 0.84 | 1.10 | 0.194 | No |
| 877 | 56.68 | 3.43 | 0.83 | 2.60 | 0.69 | 0.248 | 1.68 | 0.147 | 0.84 | 1.10 | 0.194 | No |
| 878 | 56.73 | 3.43 | 0.83 | 2.60 | 0.69 | 0.248 | 1.68 | 0.147 | 0.84 | 1.10 | 0.194 | No |
| 879 | 56.78 | 3.44 | 0.84 | 2.60 | 0.69 | 0.248 | 1.68 | 0.147 | 0.84 | 1.10 | 0.194 | No |
| 880 | 56.83 | 3.44 | 0.84 | 2.60 | 0.69 | 0.248 | 1.68 | 0.147 | 0.84 | 1.10 | 0.194 | No |
| 881 | 56.89 | 3.44 | 0.84 | 2.61 | 0.69 | 0.248 | 1.68 | 0.147 | 0.84 | 1.10 | 0.194 | No |
| 882 | 56.95 | 3.45 | 0.84 | 2.61 | 0.69 | 0.247 | 1.68 | 0.147 | 0.83 | 1.10 | 0.194 | No |
| 883 | 56.99 | 3.45 | 0.84 | 2.61 | 0.68 | 0.247 | 1.68 | 0.147 | 0.83 | 1.10 | 0.194 | No |
| 884 | 57.01 | 3.45 | 0.84 | 2.61 | 0.68 | 0.247 | 1.68 | 0.147 | 0.83 | 1.10 | 0.194 | No |
| 885 | 57.04 | 3.45 | 0.84 | 2.61 | 0.68 | 0.247 | 1.68 | 0.147 | 0.83 | 1.10 | 0.194 | No |
| 886 | 57.09 | 3.46 | 0.85 | 2.61 | 0.68 | 0.247 | 1.68 | 0.147 | 0.83 | 1.10 | 0.194 | No |
| 887 | 57.11 | 3.46 | 0.85 | 2.61 | 0.68 | 0.247 | 1.68 | 0.147 | 0.83 | 1.10 | 0.194 | No |
| 888 | 57.13 | 3.46 | 0.85 | 2.61 | 0.68 | 0.247 | 1.68 | 0.147 | 0.83 | 1.10 | 0.194 | No |
| 889 | 57.18 | 3.46 | 0.85 | 2.62 | 0.68 | 0.247 | 1.68 | 0.147 | 0.83 | 1.10 | 0.194 | No |
| 890 | 57.19 | 3.46 | 0.85 | 2.62 | 0.68 | 0.247 | 1.68 | 0.147 | 0.83 | 1.10 | 0.194 | No |
| 891 | 57.21 | 3.47 | 0.85 | 2.62 | 0.68 | 0.247 | 1.68 | 0.147 | 0.83 | 1.10 | 0.194 | No |
| 892 | 57.24 | 3.47 | 0.85 | 2.62 | 0.68 | 0.247 | 1.68 | 0.147 | 0.83 | 1.10 | 0.194 | No |
| 893 | 57.28 | 3.47 | 0.85 | 2.62 | 0.68 | 0.247 | 1.68 | 0.147 | 0.83 | 1.10 | 0.193 | No |
| 894 | 57.32 | 3.47 | 0.85 | 2.62 | 0.68 | 0.247 | 1.68 | 0.147 | 0.83 | 1.10 | 0.193 | No |
| 895 | 57.35 | 3.48 | 0.85 | 2.62 | 0.68 | 0.247 | 1.68 | 0.147 | 0.83 | 1.10 | 0.193 | No |
| 896 | 57.38 | 3.48 | 0.85 | 2.62 | 0.68 | 0.247 | 1.68 | 0.147 | 0.83 | 1.10 | 0.193 | No |
| 897 | 57.43 | 3.48 | 0.86 | 2.63 | 0.68 | 0.247 | 1.68 | 0.147 | 0.83 | 1.10 | 0.193 | No |
| 898 | 57.48 | 3.48 | 0.86 | 2.63 | 0.68 | 0.246 | 1.68 | 0.147 | 0.83 | 1.10 | 0.193 | No |
| 899 | 57.52 | 3.49 | 0.86 | 2.63 | 0.68 | 0.246 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 900 | 57.57 | 3.49 | 0.86 | 2.63 | 0.68 | 0.246 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 901 | 57.62 | 3.49 | 0.86 | 2.63 | 0.68 | 0.246 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 902 | 57.68 | 3.50 | 0.86 | 2.63 | 0.68 | 0.246 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 903 | 57.76 | 3.50 | 0.87 | 2.64 | 0.68 | 0.246 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 904 | 57.81 | 3.51 | 0.87 | 2.64 | 0.68 | 0.246 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 905 | 57.86 | 3.51 | 0.87 | 2.64 | 0.68 | 0.246 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 906 | 57.89 | 3.51 | 0.87 | 2.64 | 0.68 | 0.246 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 907 | 57.91 | 3.51 | 0.87 | 2.64 | 0.68 | 0.246 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 908 | 57.92 | 3.51 | 0.87 | 2.64 | 0.68 | 0.246 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 909 | 57.95 | 3.52 | 0.87 | 2.64 | 0.68 | 0.246 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 910 | 57.99 | 3.52 | 0.87 | 2.65 | 0.68 | 0.246 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 911 | 58.01 | 3.52 | 0.87 | 2.65 | 0.68 | 0.245 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 912 | 58.05 | 3.52 | 0.88 | 2.65 | 0.68 | 0.245 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 913 | 58.05 | 3.52 | 0.88 | 2.65 | 0.68 | 0.245 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 914 | 58.10 | 3.53 | 0.88 | 2.65 | 0.68 | 0.245 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 915 | 58.13 | 3.53 | 0.88 | 2.65 | 0.67 | 0.245 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 916 | 58.15 | 3.53 | 0.88 | 2.65 | 0.67 | 0.245 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 917 | 58.17 | 3.53 | 0.88 | 2.65 | 0.67 | 0.245 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 918 | 58.20 | 3.53 | 0.88 | 2.65 | 0.67 | 0.245 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 919 | 58.21 | 3.53 | 0.88 | 2.65 | 0.67 | 0.245 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 920 | 58.21 | 3.53 | 0.88 | 2.65 | 0.67 | 0.245 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 921 | 58.23 | 3.54 | 0.88 | 2.65 | 0.67 | 0.245 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 922 | 58.24 | 3.54 | 0.88 | 2.66 | 0.67 | 0.245 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 923 | 58.25 | 3.54 | 0.88 | 2.66 | 0.67 | 0.245 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 924 | 58.29 | 3.54 | 0.88 | 2.66 | 0.67 | 0.245 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 925 | 58.31 | 3.54 | 0.88 | 2.66 | 0.67 | 0.245 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 926 | 58.33 | 3.54 | 0.88 | 2.66 | 0.67 | 0.245 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 927 | 58.38 | 3.55 | 0.89 | 2.66 | 0.67 | 0.245 | 1.68 | 0.146 | 0.83 | 1.10 | 0.192 | No |
| 928 | 58.39 | 3.55 | 0.89 | 2.66 | 0.67 | 0.245 | 1.68 | 0.146 | 0.83 | 1.10 | 0.192 | No |
| 929 | 58.43 | 3.55 | 0.89 | 2.66 | 0.67 | 0.245 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 930 | 58.43 | 3.55 | 0.89 | 2.66 | 0.67 | 0.245 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 931 | 58.48 | 3.55 | 0.89 | 2.66 | 0.67 | 0.245 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 932 | 58.53 | 3.56 | 0.89 | 2.67 | 0.67 | 0.245 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 933 | 58.56 | 3.56 | 0.89 | 2.67 | 0.67 | 0.245 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 934 | 58.58 | 3.56 | 0.89 | 2.67 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 935 | 58.59 | 3.56 | 0.89 | 2.67 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 936 | 58.63 | 3.56 | 0.89 | 2.67 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 937 | 58.63 | 3.56 | 0.89 | 2.67 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 938 | 58.63 | 3.56 | 0.89 | 2.67 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 939 | 58.68 | 3.57 | 0.89 | 2.67 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 940 | 58.69 | 3.57 | 0.90 | 2.67 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 941 | 58.72 | 3.57 | 0.90 | 2.67 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 942 | 58.73 | 3.57 | 0.90 | 2.67 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 943 | 58.74 | 3.57 | 0.90 | 2.67 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 944 | 58.77 | 3.57 | 0.90 | 2.67 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 945 | 58.81 | 3.57 | 0.90 | 2.68 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 946 | 58.82 | 3.57 | 0.90 | 2.68 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 947 | 58.83 | 3.58 | 0.90 | 2.68 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 948 | 58.87 | 3.58 | 0.90 | 2.68 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 949 | 58.91 | 3.58 | 0.90 | 2.68 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 950 | 58.92 | 3.58 | 0.90 | 2.68 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 951 | 58.93 | 3.58 | 0.90 | 2.68 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 952 | 58.96 | 3.58 | 0.90 | 2.68 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 953 | 59.01 | 3.59 | 0.91 | 2.68 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 954 | 59.06 | 3.59 | 0.91 | 2.68 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 955 | 59.08 | 3.59 | 0.91 | 2.69 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 956 | 59.11 | 3.59 | 0.91 | 2.69 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 957 | 59.15 | 3.60 | 0.91 | 2.69 | 0.67 | 0.243 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 958 | 59.21 | 3.60 | 0.91 | 2.69 | 0.67 | 0.243 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 959 | 59.26 | 3.60 | 0.91 | 2.69 | 0.67 | 0.243 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 960 | 59.30 | 3.61 | 0.91 | 2.69 | 0.66 | 0.243 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 961 | 59.35 | 3.61 | 0.92 | 2.70 | 0.66 | 0.243 | 1.68 | 0.144 | 0.83 | 1.10 | 0.192 | No |
| 962 | 59.40 | 3.61 | 0.92 | 2.70 | 0.66 | 0.243 | 1.68 | 0.144 | 0.83 | 1.10 | 0.192 | No |
| 963 | 59.42 | 3.62 | 0.92 | 2.70 | 0.66 | 0.243 | 1.68 | 0.144 | 0.83 | 1.10 | 0.192 | No |
| 964 | 59.47 | 3.62 | 0.92 | 2.70 | 0.66 | 0.243 | 1.68 | 0.144 | 0.83 | 1.10 | 0.192 | No |
| 965 | 59.51 | 3.62 | 0.92 | 2.70 | 0.66 | 0.243 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 966 | 59.56 | 3.63 | 0.92 | 2.70 | 0.66 | 0.243 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 967 | 59.61 | 3.63 | 0.92 | 2.71 | 0.66 | 0.243 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 968 | 59.67 | 3.63 | 0.93 | 2.71 | 0.66 | 0.243 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 969 | 59.71 | 3.64 | 0.93 | 2.71 | 0.66 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 970 | 59.80 | 3.64 | 0.93 | 2.71 | 0.66 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 971 | 59.85 | 3.65 | 0.93 | 2.71 | 0.66 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 972 | 59.90 | 3.65 | 0.93 | 2.72 | 0.66 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 973 | 60.00 | 3.65 | 0.94 | 2.72 | 0.66 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 974 | 60.04 | 3.66 | 0.94 | 2.72 | 0.66 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 975 | 60.10 | 3.66 | 0.94 | 2.72 | 0.66 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 976 | 60.15 | 3.67 | 0.94 | 2.72 | 0.66 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 977 | 60.19 | 3.67 | 0.94 | 2.73 | 0.66 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 978 | 60.23 | 3.67 | 0.94 | 2.73 | 0.66 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 979 | 60.28 | 3.67 | 0.94 | 2.73 | 0.66 | 0.241 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 980 | 60.33 | 3.68 | 0.95 | 2.73 | 0.66 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.191 | No |
| 981 | 60.38 | 3.68 | 0.95 | 2.73 | 0.66 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.191 | No |
| 982 | 60.42 | 3.68 | 0.95 | 2.73 | 0.66 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.191 | No |
| 983 | 60.44 | 3.68 | 0.95 | 2.73 | 0.66 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.191 | No |
| 984 | 60.47 | 3.69 | 0.95 | 2.74 | 0.66 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.191 | No |
| 985 | 60.52 | 3.69 | 0.95 | 2.74 | 0.66 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.191 | No |
| 986 | 60.56 | 3.69 | 0.95 | 2.74 | 0.65 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.191 | No |
| 987 | 60.57 | 3.69 | 0.95 | 2.74 | 0.65 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.191 | No |
| 988 | 60.61 | 3.70 | 0.96 | 2.74 | 0.65 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.191 | No |
| 989 | 60.66 | 3.70 | 0.96 | 2.74 | 0.65 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 990 | 60.71 | 3.70 | 0.96 | 2.74 | 0.65 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 991 | 60.76 | 3.71 | 0.96 | 2.75 | 0.65 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 992 | 60.81 | 3.71 | 0.96 | 2.75 | 0.65 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 993 | 60.86 | 3.71 | 0.96 | 2.75 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 994 | 60.91 | 3.72 | 0.96 | 2.75 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 995 | 60.95 | 3.72 | 0.97 | 2.75 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 996 | 61.00 | 3.72 | 0.97 | 2.76 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 997 | 61.02 | 3.72 | 0.97 | 2.76 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 998 | 61.05 | 3.73 | 0.97 | 2.76 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 999 | 61.08 | 3.73 | 0.97 | 2.76 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 1000 | 61.09 | 3.73 | 0.97 | 2.76 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 1001 | 61.13 | 3.73 | 0.97 | 2.76 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 1002 | 61.14 | 3.73 | 0.97 | 2.76 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 1003 | 61.16 | 3.73 | 0.97 | 2.76 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 1004 | 61.20 | 3.74 | 0.97 | 2.76 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 1005 | 61.23 | 3.74 | 0.97 | 2.76 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 1006 | 61.24 | 3.74 | 0.97 | 2.76 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 1007 | 61.29 | 3.74 | 0.98 | 2.77 | 0.65 | 0.240 | 1.68 | 0.142 | 0.83 | 1.10 | 0.190 | No |
| 1008 | 61.30 | 3.74 | 0.98 | 2.77 | 0.65 | 0.240 | 1.68 | 0.142 | 0.83 | 1.10 | 0.190 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1009 | 61.33 | 3.75 | 0.98 | 2.77 | 0.65 | 0.240 | 1.68 | 0.142 | 0.83 | 1.10 | 0.190 | No |
| 1010 | 61.38 | 3.75 | 0.98 | 2.77 | 0.65 | 0.240 | 1.68 | 0.142 | 0.82 | 1.10 | 0.190 | No |
| 1011 | 61.43 | 3.75 | 0.98 | 2.77 | 0.65 | 0.239 | 1.68 | 0.142 | 0.82 | 1.10 | 0.190 | No |
| 1012 | 61.48 | 3.76 | 0.98 | 2.77 | 0.65 | 0.239 | 1.68 | 0.142 | 0.82 | 1.10 | 0.190 | No |
| 1013 | 61.53 | 3.76 | 0.98 | 2.78 | 0.65 | 0.239 | 1.68 | 0.142 | 0.82 | 1.10 | 0.190 | No |
| 1014 | 61.56 | 3.76 | 0.98 | 2.78 | 0.65 | 0.239 | 1.68 | 0.142 | 0.82 | 1.10 | 0.190 | No |
| 1015 | 61.58 | 3.76 | 0.99 | 2.78 | 0.65 | 0.239 | 1.68 | 0.142 | 0.82 | 1.10 | 0.190 | No |
| 1016 | 61.59 | 3.76 | 0.99 | 2.78 | 0.65 | 0.239 | 1.68 | 0.142 | 0.82 | 1.10 | 0.190 | No |
| 1017 | 61.62 | 3.76 | 0.99 | 2.78 | 0.65 | 0.239 | 1.68 | 0.142 | 0.82 | 1.10 | 0.190 | No |
| 1018 | 61.63 | 3.77 | 0.99 | 2.78 | 0.65 | 0.239 | 1.68 | 0.142 | 0.82 | 1.10 | 0.190 | No |
| 1019 | 61.67 | 3.77 | 0.99 | 2.78 | 0.65 | 0.239 | 1.68 | 0.142 | 0.82 | 1.10 | 0.190 | No |
| 1020 | 61.71 | 3.77 | 0.99 | 2.78 | 0.65 | 0.239 | 1.68 | 0.142 | 0.82 | 1.10 | 0.190 | No |
| 1021 | 61.76 | 3.77 | 0.99 | 2.78 | 0.65 | 0.239 | 1.68 | 0.142 | 0.82 | 1.10 | 0.190 | No |
| 1022 | 61.81 | 3.78 | 0.99 | 2.79 | 0.64 | 0.239 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 1023 | 61.86 | 3.78 | 0.99 | 2.79 | 0.64 | 0.239 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 1024 | 61.87 | 3.78 | 0.99 | 2.79 | 0.64 | 0.239 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 1025 | 61.91 | 3.78 | 1.00 | 2.79 | 0.64 | 0.239 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 1026 | 61.95 | 3.79 | 1.00 | 2.79 | 0.64 | 0.239 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 1027 | 61.96 | 3.79 | 1.00 | 2.79 | 0.64 | 0.239 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 1028 | 62.00 | 3.79 | 1.00 | 2.79 | 0.64 | 0.238 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 1029 | 62.04 | 3.79 | 1.00 | 2.79 | 0.64 | 0.238 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 1030 | 62.06 | 3.79 | 1.00 | 2.79 | 0.64 | 0.238 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 1031 | 62.10 | 3.80 | 1.00 | 2.80 | 0.64 | 0.238 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 1032 | 62.14 | 3.80 | 1.00 | 2.80 | 0.64 | 0.238 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 1033 | 62.20 | 3.80 | 1.00 | 2.80 | 0.64 | 0.238 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 1034 | 62.22 | 3.80 | 1.01 | 2.80 | 0.64 | 0.238 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 1035 | 62.27 | 3.81 | 1.01 | 2.80 | 0.64 | 0.238 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 1036 | 62.29 | 3.81 | 1.01 | 2.80 | 0.64 | 0.238 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 1037 | 62.34 | 3.81 | 1.01 | 2.80 | 0.64 | 0.238 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 1038 | 62.39 | 3.82 | 1.01 | 2.81 | 0.64 | 0.238 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 1039 | 62.43 | 3.82 | 1.01 | 2.81 | 0.64 | 0.238 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 1040 | 62.49 | 3.82 | 1.01 | 2.81 | 0.64 | 0.238 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 1041 | 62.57 | 3.83 | 1.02 | 2.81 | 0.64 | 0.238 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 1042 | 62.68 | 3.84 | 1.02 | 2.82 | 0.64 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 1043 | 62.75 | 3.84 | 1.02 | 2.82 | 0.64 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 1044 | 62.87 | 3.85 | 1.03 | 2.82 | 0.64 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 1045 | 62.88 | 3.85 | 1.03 | 2.82 | 0.64 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 1046 | 62.89 | 3.85 | 1.03 | 2.82 | 0.64 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 1047 | 62.93 | 3.85 | 1.03 | 2.83 | 0.64 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 1048 | 62.98 | 3.86 | 1.03 | 2.83 | 0.64 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 1049 | 63.02 | 3.86 | 1.03 | 2.83 | 0.64 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 1050 | 63.07 | 3.86 | 1.03 | 2.83 | 0.64 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |
| 1051 | 63.12 | 3.86 | 1.03 | 2.83 | 0.64 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |
| 1052 | 63.14 | 3.86 | 1.03 | 2.83 | 0.64 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |
| 1053 | 63.17 | 3.87 | 1.03 | 2.83 | 0.63 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |
| 1054 | 63.17 | 3.87 | 1.04 | 2.83 | 0.63 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |
| 1055 | 63.20 | 3.87 | 1.04 | 2.83 | 0.63 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |
| 1056 | 63.21 | 3.87 | 1.04 | 2.83 | 0.63 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1057 | 63.23 | 3.87 | 1.04 | 2.83 | 0.63 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |
| 1058 | 63.26 | 3.87 | 1.04 | 2.83 | 0.63 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |
| 1059 | 63.28 | 3.87 | 1.04 | 2.83 | 0.63 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |
| 1060 | 63.31 | 3.87 | 1.04 | 2.83 | 0.63 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |
| 1061 | 63.32 | 3.87 | 1.04 | 2.83 | 0.63 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |
| 1062 | 63.36 | 3.87 | 1.04 | 2.83 | 0.63 | 0.236 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |
| 1063 | 63.40 | 3.88 | 1.04 | 2.83 | 0.63 | 0.236 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |

**Abbreviations**

Depth: Depth from free surface, at which CPT was performed (ft)
$\sigma_v$: Total overburden pressure at test point (tsf)
$u_0$: Water pressure at test point (tsf)
$\sigma_v'$: Effective overburden pressure based on GWT during earthquake (tsf)
$r_d$: Nonlinear shear mass factor
CSR: Cyclic Stress Ratio
MSF: Magnitude Scaling Factor
$CSR_{eq}$: CSR adjusted for M=7.5
$K_\sigma$: Effective overburden stress factor
$CSR^*$: CSR fully adjusted

**:: Cyclic Resistance Ratio (CRR) calculation data ::**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.01 | 0.00 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 2 | 0.04 | 0.00 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 3 | 0.09 | 0.00 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 4 | 0.11 | 0.00 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 5 | 0.14 | 0.00 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 6 | 0.14 | 1.35 | 3.66 | 4.59 | 1.00 | 2.15 | 27.82 | 59.81 | 4.000 | No | Yes | 2.00 |
| 7 | 0.18 | 6.97 | 2.69 | 0.89 | 0.81 | 11.19 | 4.58 | 51.24 | 4.000 | No | Yes | 2.00 |
| 8 | 0.23 | 18.19 | 2.14 | 0.35 | 0.65 | 29.21 | 1.00 | 29.21 | 4.000 | No | No | 2.00 |
| 9 | 0.24 | 36.79 | 1.76 | 0.18 | 0.54 | 59.09 | 1.00 | 59.09 | 4.000 | No | No | 2.00 |
| 10 | 0.28 | 53.07 | 1.58 | 0.14 | 0.50 | 85.23 | 1.00 | 85.23 | 4.000 | No | No | 2.00 |
| 11 | 0.33 | 59.27 | 1.53 | 0.14 | 0.50 | 95.19 | 1.00 | 95.19 | 4.000 | No | No | 2.00 |
| 12 | 0.38 | 56.61 | 1.60 | 0.20 | 0.50 | 90.91 | 1.00 | 90.91 | 4.000 | No | No | 2.00 |
| 13 | 0.42 | 52.11 | 1.72 | 0.34 | 0.52 | 83.69 | 1.00 | 83.69 | 4.000 | No | No | 2.00 |
| 14 | 0.47 | 51.84 | 1.83 | 0.58 | 0.56 | 83.25 | 1.19 | 98.77 | 4.000 | No | No | 2.00 |
| 15 | 0.51 | 51.94 | 1.90 | 0.76 | 0.58 | 83.40 | 1.24 | 103.16 | 4.000 | No | No | 2.00 |
| 16 | 0.52 | 52.09 | 1.93 | 0.85 | 0.59 | 83.64 | 1.26 | 104.99 | 4.000 | No | No | 2.00 |
| 17 | 0.57 | 52.66 | 1.91 | 0.81 | 0.58 | 84.56 | 1.24 | 105.20 | 4.000 | No | No | 2.00 |
| 18 | 0.61 | 53.24 | 1.89 | 0.76 | 0.58 | 85.48 | 1.23 | 105.23 | 4.000 | No | No | 2.00 |
| 19 | 0.67 | 53.47 | 1.88 | 0.73 | 0.57 | 85.85 | 1.22 | 105.00 | 4.000 | No | No | 2.00 |
| 20 | 0.73 | 53.84 | 1.87 | 0.71 | 0.57 | 86.44 | 1.22 | 105.23 | 4.000 | No | No | 2.00 |
| 21 | 0.81 | 53.62 | 1.87 | 0.71 | 0.57 | 86.08 | 1.22 | 104.72 | 4.000 | No | No | 2.00 |
| 22 | 0.86 | 53.52 | 1.92 | 0.84 | 0.58 | 85.91 | 1.25 | 107.16 | 4.000 | No | No | 2.00 |
| 23 | 0.98 | 52.14 | 1.96 | 0.96 | 0.60 | 83.69 | 1.28 | 106.78 | 4.000 | No | No | 2.00 |
| 24 | 1.05 | 48.22 | 2.02 | 1.08 | 0.61 | 77.37 | 1.32 | 102.42 | 4.000 | No | No | 2.00 |
| 25 | 1.15 | 43.67 | 2.04 | 1.03 | 0.62 | 70.05 | 1.34 | 94.07 | 4.000 | No | No | 2.00 |
| 26 | 1.24 | 37.87 | 2.07 | 0.96 | 0.63 | 60.73 | 1.38 | 83.84 | 4.000 | No | No | 2.00 |
| 27 | 1.34 | 34.47 | 2.09 | 0.89 | 0.63 | 55.26 | 1.40 | 77.37 | 4.000 | No | No | 2.00 |
| 28 | 1.43 | 30.63 | 2.16 | 0.99 | 0.65 | 49.08 | 1.51 | 74.33 | 4.000 | No | No | 2.00 |
| 29 | 1.53 | 26.86 | 2.25 | 1.20 | 0.68 | 43.01 | 1.75 | 75.37 | 4.000 | No | No | 2.00 |
| 30 | 1.58 | 24.56 | 2.31 | 1.36 | 0.70 | 39.32 | 1.98 | 77.68 | 4.000 | No | No | 2.00 |
| 31 | 1.62 | 23.48 | 2.32 | 1.31 | 0.70 | 37.59 | 2.00 | 75.15 | 4.000 | No | No | 2.00 |
| 32 | 1.67 | 24.36 | 2.28 | 1.18 | 0.69 | 38.99 | 1.85 | 72.19 | 4.000 | No | No | 2.00 |
| 33 | 1.75 | 23.89 | 2.28 | 1.15 | 0.69 | 38.23 | 1.86 | 70.99 | 4.000 | No | No | 2.00 |
| 34 | 1.77 | 23.08 | 2.30 | 1.17 | 0.70 | 36.93 | 1.92 | 70.79 | 4.000 | No | No | 2.00 |
| 35 | 1.81 | 21.50 | 2.34 | 1.25 | 0.71 | 34.38 | 2.08 | 71.55 | 4.000 | No | No | 2.00 |
| 36 | 1.86 | 19.71 | 2.39 | 1.32 | 0.72 | 31.51 | 2.30 | 72.37 | 4.000 | No | No | 2.00 |
| 37 | 1.91 | 17.96 | 2.43 | 1.37 | 0.74 | 28.69 | 2.52 | 72.24 | 4.000 | No | No | 2.00 |
| 38 | 1.95 | 16.98 | 2.43 | 1.26 | 0.74 | 27.11 | 2.53 | 68.54 | 4.000 | No | No | 2.00 |
| 39 | 2.00 | 16.21 | 2.41 | 1.09 | 0.73 | 25.86 | 2.43 | 62.85 | 4.000 | No | No | 2.00 |
| 40 | 2.05 | 14.89 | 2.41 | 0.93 | 0.73 | 23.75 | 2.42 | 57.52 | 4.000 | Yes | No | 2.00 |
| 41 | 2.11 | 13.51 | 2.43 | 0.88 | 0.74 | 21.52 | 2.55 | 54.95 | 4.000 | Yes | No | 2.00 |
| 42 | 2.20 | 12.33 | 2.47 | 0.89 | 0.75 | 19.62 | 2.79 | 54.76 | 4.000 | Yes | No | 2.00 |
| 43 | 2.24 | 11.73 | 2.50 | 0.95 | 0.76 | 18.64 | 3.01 | 56.15 | 4.000 | Yes | No | 2.00 |
| 44 | 2.29 | 11.26 | 2.54 | 1.06 | 0.77 | 17.88 | 3.29 | 58.85 | 4.000 | Yes | No | 2.00 |
| 45 | 2.34 | 11.32 | 2.60 | 1.39 | 0.79 | 17.99 | 3.76 | 67.59 | 4.000 | Yes | Yes | 2.00 |
| 46 | 2.44 | 12.17 | 2.61 | 1.64 | 0.79 | 19.33 | 3.86 | 74.63 | 4.000 | Yes | Yes | 2.00 |
| 47 | 2.48 | 14.56 | 2.56 | 1.73 | 0.78 | 23.17 | 3.43 | 79.44 | 4.000 | Yes | No | 2.00 |
| 48 | 2.58 | 18.03 | 2.47 | 1.60 | 0.75 | 28.74 | 2.75 | 79.05 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 49 | 2.63 | 22.41 | 2.37 | 1.48 | 0.72 | 35.77 | 2.21 | 79.01 | 4.000 | Yes | No | 2.00 |
| 50 | 2.71 | 26.08 | 2.30 | 1.39 | 0.70 | 41.66 | 1.92 | 80.03 | 4.000 | Yes | No | 2.00 |
| 51 | 2.78 | 30.33 | 2.22 | 1.27 | 0.67 | 48.48 | 1.67 | 80.89 | 4.000 | Yes | No | 2.00 |
| 52 | 2.82 | 33.73 | 2.16 | 1.16 | 0.66 | 53.95 | 1.52 | 82.21 | 4.000 | Yes | No | 2.00 |
| 53 | 2.89 | 34.94 | 2.13 | 1.09 | 0.65 | 55.89 | 1.47 | 82.24 | 4.000 | Yes | No | 2.00 |
| 54 | 2.96 | 33.63 | 2.16 | 1.13 | 0.65 | 53.77 | 1.51 | 81.39 | 4.000 | No | No | 2.00 |
| 55 | 3.03 | 30.90 | 2.20 | 1.21 | 0.67 | 49.37 | 1.62 | 80.00 | 4.000 | No | No | 2.00 |
| 56 | 3.11 | 28.98 | 2.23 | 1.23 | 0.68 | 46.28 | 1.70 | 78.46 | 4.000 | No | No | 2.00 |
| 57 | 3.19 | 26.45 | 2.26 | 1.23 | 0.69 | 42.22 | 1.79 | 75.65 | 4.000 | No | No | 2.00 |
| 58 | 3.25 | 23.52 | 2.31 | 1.27 | 0.70 | 37.50 | 1.97 | 73.87 | 4.000 | No | No | 2.00 |
| 59 | 3.35 | 20.49 | 2.38 | 1.38 | 0.72 | 32.62 | 2.28 | 74.42 | 4.000 | No | No | 2.00 |
| 60 | 3.41 | 17.79 | 2.44 | 1.42 | 0.74 | 28.29 | 2.60 | 73.49 | 4.000 | No | No | 2.00 |
| 61 | 3.50 | 15.91 | 2.46 | 1.31 | 0.75 | 25.25 | 2.74 | 69.10 | 4.000 | No | No | 2.00 |
| 62 | 3.59 | 14.83 | 2.45 | 1.11 | 0.74 | 23.51 | 2.66 | 62.63 | 4.000 | No | No | 2.00 |
| 63 | 3.69 | 14.59 | 2.43 | 0.99 | 0.74 | 23.12 | 2.55 | 58.90 | 4.000 | No | No | 2.00 |
| 64 | 3.79 | 15.20 | 2.39 | 0.89 | 0.73 | 24.09 | 2.35 | 56.48 | 4.000 | No | No | 2.00 |
| 65 | 3.88 | 16.54 | 2.34 | 0.81 | 0.71 | 26.24 | 2.09 | 54.78 | 4.000 | No | No | 2.00 |
| 66 | 3.97 | 19.14 | 2.27 | 0.75 | 0.69 | 30.40 | 1.82 | 55.25 | 4.000 | No | No | 2.00 |
| 67 | 4.07 | 20.82 | 2.26 | 0.82 | 0.68 | 33.10 | 1.77 | 58.69 | 4.000 | No | No | 2.00 |
| 68 | 4.14 | 23.49 | 2.22 | 0.86 | 0.67 | 37.37 | 1.67 | 62.38 | 4.000 | No | No | 2.00 |
| 69 | 4.17 | 25.51 | 2.20 | 0.89 | 0.67 | 40.62 | 1.61 | 65.25 | 4.000 | No | No | 2.00 |
| 70 | 4.26 | 28.14 | 2.15 | 0.86 | 0.65 | 44.83 | 1.51 | 67.83 | 4.000 | No | No | 2.00 |
| 71 | 4.32 | 28.71 | 2.16 | 0.90 | 0.66 | 45.74 | 1.52 | 69.43 | 4.000 | No | No | 2.00 |
| 72 | 4.37 | 28.10 | 2.18 | 0.95 | 0.66 | 44.77 | 1.56 | 69.94 | 4.000 | No | No | 2.00 |
| 73 | 4.42 | 26.62 | 2.21 | 1.02 | 0.67 | 42.38 | 1.65 | 69.93 | 4.000 | No | No | 2.00 |
| 74 | 4.51 | 25.07 | 2.24 | 1.05 | 0.68 | 39.88 | 1.74 | 69.30 | 4.000 | No | No | 2.00 |
| 75 | 4.61 | 23.68 | 2.27 | 1.07 | 0.69 | 37.65 | 1.82 | 68.42 | 4.000 | No | No | 2.00 |
| 76 | 4.65 | 22.37 | 2.29 | 1.08 | 0.70 | 35.53 | 1.90 | 67.38 | 4.000 | No | No | 2.00 |
| 77 | 4.74 | 21.09 | 2.32 | 1.11 | 0.70 | 33.47 | 2.00 | 67.06 | 4.000 | No | No | 2.00 |
| 78 | 4.80 | 20.48 | 2.33 | 1.11 | 0.71 | 32.49 | 2.05 | 66.55 | 4.000 | No | No | 2.00 |
| 79 | 4.89 | 20.04 | 2.34 | 1.12 | 0.71 | 31.78 | 2.09 | 66.46 | 4.000 | No | No | 2.00 |
| 80 | 4.95 | 20.38 | 2.33 | 1.10 | 0.71 | 32.32 | 2.05 | 66.20 | 4.000 | No | No | 2.00 |
| 81 | 5.04 | 21.05 | 2.31 | 1.07 | 0.70 | 33.39 | 1.97 | 65.92 | 4.000 | No | No | 2.00 |
| 82 | 5.13 | 22.81 | 2.27 | 0.99 | 0.69 | 36.20 | 1.80 | 65.26 | 4.000 | No | No | 2.00 |
| 83 | 5.18 | 25.27 | 2.20 | 0.90 | 0.67 | 40.14 | 1.63 | 65.28 | 4.000 | No | No | 2.00 |
| 84 | 5.28 | 28.07 | 2.14 | 0.82 | 0.65 | 44.63 | 1.49 | 66.64 | 4.000 | No | No | 2.00 |
| 85 | 5.32 | 31.47 | 2.09 | 0.76 | 0.63 | 50.09 | 1.40 | 70.04 | 4.000 | No | No | 2.00 |
| 86 | 5.42 | 34.67 | 2.05 | 0.75 | 0.62 | 55.23 | 1.35 | 74.62 | 4.000 | No | No | 2.00 |
| 87 | 5.51 | 38.14 | 2.01 | 0.74 | 0.61 | 60.80 | 1.31 | 79.86 | 4.000 | No | No | 2.00 |
| 88 | 5.60 | 41.28 | 1.94 | 0.63 | 0.59 | 65.83 | 1.26 | 83.18 | 4.000 | No | No | 2.00 |
| 89 | 5.66 | 44.24 | 1.88 | 0.53 | 0.57 | 70.58 | 1.22 | 86.14 | 4.000 | No | No | 2.00 |
| 90 | 5.76 | 45.86 | 1.83 | 0.46 | 0.56 | 73.17 | 1.00 | 73.17 | 4.000 | No | No | 2.00 |
| 91 | 5.85 | 44.91 | 1.86 | 0.50 | 0.57 | 71.65 | 1.21 | 86.53 | 4.000 | No | No | 2.00 |
| 92 | 5.92 | 41.11 | 1.92 | 0.56 | 0.58 | 65.53 | 1.25 | 81.79 | 4.000 | No | No | 2.00 |
| 93 | 5.95 | 38.21 | 1.96 | 0.61 | 0.60 | 60.87 | 1.28 | 77.76 | 4.000 | No | No | 2.00 |
| 94 | 5.97 | 36.15 | 1.99 | 0.64 | 0.61 | 57.56 | 1.30 | 74.97 | 4.000 | No | No | 2.00 |
| 95 | 6.02 | 35.37 | 2.01 | 0.65 | 0.61 | 56.31 | 1.31 | 73.90 | 4.000 | Yes | No | 2.00 |
| 96 | 6.06 | 32.74 | 2.05 | 0.70 | 0.62 | 52.08 | 1.36 | 70.59 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97 | 6.16 | 29.98 | 2.10 | 0.76 | 0.64 | 47.63 | 1.42 | 67.87 | 4.000 | Yes | No | 2.00 |
| 98 | 6.21 | 26.98 | 2.18 | 0.88 | 0.66 | 42.82 | 1.56 | 66.83 | 4.000 | Yes | No | 2.00 |
| 99 | 6.26 | 24.29 | 2.26 | 1.07 | 0.69 | 38.48 | 1.79 | 68.74 | 4.000 | Yes | No | 2.00 |
| 100 | 6.31 | 21.62 | 2.36 | 1.35 | 0.72 | 34.19 | 2.18 | 74.63 | 4.000 | Yes | No | 2.00 |
| 101 | 6.40 | 19.23 | 2.46 | 1.68 | 0.75 | 30.34 | 2.70 | 82.06 | 4.000 | Yes | No | 2.00 |
| 102 | 6.44 | 16.91 | 2.56 | 2.09 | 0.78 | 26.60 | 3.43 | 91.18 | 4.000 | Yes | No | 2.00 |
| 103 | 6.52 | 15.12 | 2.64 | 2.48 | 0.80 | 23.73 | 4.16 | 98.65 | 4.000 | Yes | Yes | 2.00 |
| 104 | 6.57 | 13.47 | 2.73 | 2.91 | 0.83 | 21.08 | 5.01 | 105.63 | 4.000 | Yes | Yes | 2.00 |
| 105 | 6.64 | 12.16 | 2.80 | 3.29 | 0.85 | 18.96 | 5.81 | 110.19 | 4.000 | Yes | Yes | 2.00 |
| 106 | 6.69 | 10.98 | 2.86 | 3.65 | 0.87 | 17.06 | 6.65 | 113.46 | 4.000 | Yes | Yes | 2.00 |
| 107 | 6.78 | 10.34 | 2.90 | 3.84 | 0.88 | 16.02 | 7.15 | 114.49 | 4.000 | Yes | Yes | 2.00 |
| 108 | 6.83 | 9.90 | 2.91 | 3.84 | 0.88 | 15.31 | 7.38 | 112.96 | 4.000 | Yes | Yes | 2.00 |
| 109 | 6.92 | 9.60 | 2.92 | 3.75 | 0.88 | 14.82 | 7.45 | 110.37 | 4.000 | No | Yes | 2.00 |
| 110 | 6.97 | 9.39 | 2.91 | 3.59 | 0.88 | 14.48 | 7.39 | 107.07 | 4.000 | No | Yes | 2.00 |
| 111 | 7.03 | 9.29 | 2.91 | 3.50 | 0.88 | 14.32 | 7.35 | 105.27 | 4.000 | No | Yes | 2.00 |
| 112 | 7.12 | 9.32 | 2.90 | 3.42 | 0.88 | 14.36 | 7.25 | 104.07 | 4.000 | No | Yes | 2.00 |
| 113 | 7.22 | 9.39 | 2.90 | 3.38 | 0.88 | 14.46 | 7.17 | 103.64 | 4.000 | No | Yes | 2.00 |
| 114 | 7.27 | 9.52 | 2.89 | 3.37 | 0.88 | 14.66 | 7.09 | 103.89 | 4.000 | No | Yes | 2.00 |
| 115 | 7.36 | 9.65 | 2.89 | 3.41 | 0.87 | 14.86 | 7.06 | 104.93 | 4.000 | No | Yes | 2.00 |
| 116 | 7.43 | 9.75 | 2.89 | 3.48 | 0.88 | 15.01 | 7.08 | 106.34 | 4.000 | No | Yes | 2.00 |
| 117 | 7.50 | 9.78 | 2.90 | 3.56 | 0.88 | 15.06 | 7.16 | 107.82 | 4.000 | No | Yes | 2.00 |
| 118 | 7.59 | 9.77 | 2.90 | 3.61 | 0.88 | 15.04 | 7.22 | 108.69 | 4.000 | No | Yes | 2.00 |
| 119 | 7.64 | 9.70 | 2.91 | 3.69 | 0.88 | 14.93 | 7.34 | 109.64 | 4.000 | No | Yes | 2.00 |
| 120 | 7.75 | 9.63 | 2.92 | 3.75 | 0.88 | 14.81 | 7.46 | 110.40 | 4.000 | No | Yes | 2.00 |
| 121 | 7.79 | 9.70 | 2.92 | 3.76 | 0.88 | 14.91 | 7.43 | 110.74 | 4.000 | No | Yes | 2.00 |
| 122 | 7.89 | 9.97 | 2.90 | 3.67 | 0.88 | 15.33 | 7.19 | 110.22 | 4.000 | No | Yes | 2.00 |
| 123 | 7.99 | 10.24 | 2.88 | 3.59 | 0.87 | 15.76 | 6.97 | 109.89 | 4.000 | No | Yes | 2.00 |
| 124 | 8.04 | 10.34 | 2.88 | 3.62 | 0.87 | 15.91 | 6.96 | 110.71 | 4.000 | No | Yes | 2.00 |
| 125 | 8.13 | 10.31 | 2.89 | 3.67 | 0.87 | 15.85 | 7.03 | 111.39 | 4.000 | No | Yes | 2.00 |
| 126 | 8.23 | 10.27 | 2.84 | 3.03 | 0.86 | 15.79 | 6.35 | 100.23 | 4.000 | No | Yes | 2.00 |
| 127 | 8.32 | 10.27 | 2.79 | 2.55 | 0.85 | 15.77 | 5.78 | 91.18 | 4.000 | No | Yes | 2.00 |
| 128 | 8.37 | 10.53 | 2.76 | 2.28 | 0.84 | 16.20 | 5.34 | 86.47 | 4.000 | No | Yes | 2.00 |
| 129 | 8.46 | 11.04 | 2.79 | 2.79 | 0.85 | 17.00 | 5.74 | 97.61 | 4.000 | No | Yes | 2.00 |
| 130 | 8.56 | 11.30 | 2.82 | 3.16 | 0.85 | 17.42 | 6.05 | 105.35 | 4.000 | No | Yes | 2.00 |
| 131 | 8.59 | 11.30 | 2.84 | 3.44 | 0.86 | 17.41 | 6.35 | 110.51 | 4.000 | No | Yes | 2.00 |
| 132 | 8.61 | 11.03 | 2.87 | 3.69 | 0.87 | 16.97 | 6.71 | 113.97 | 4.000 | No | Yes | 2.00 |
| 133 | 8.67 | 10.89 | 2.88 | 3.88 | 0.87 | 16.75 | 6.98 | 116.82 | 4.000 | No | Yes | 2.00 |
| 134 | 8.71 | 10.69 | 2.90 | 4.05 | 0.88 | 16.41 | 7.24 | 118.78 | 4.000 | No | Yes | 2.00 |
| 135 | 8.72 | 10.51 | 2.92 | 4.18 | 0.88 | 16.13 | 7.46 | 120.30 | 4.000 | No | Yes | 2.00 |
| 136 | 8.78 | 10.44 | 2.92 | 4.25 | 0.89 | 16.02 | 7.56 | 121.13 | 4.000 | No | Yes | 2.00 |
| 137 | 8.80 | 10.44 | 2.93 | 4.28 | 0.89 | 16.02 | 7.59 | 121.54 | 4.000 | No | Yes | 2.00 |
| 138 | 8.86 | 10.44 | 2.93 | 4.29 | 0.89 | 16.01 | 7.60 | 121.62 | 4.000 | No | Yes | 2.00 |
| 139 | 8.90 | 10.55 | 2.92 | 4.29 | 0.88 | 16.17 | 7.55 | 122.08 | 4.000 | No | Yes | 2.00 |
| 140 | 8.95 | 10.68 | 2.92 | 4.30 | 0.88 | 16.39 | 7.49 | 122.77 | 4.000 | No | Yes | 2.00 |
| 141 | 8.96 | 10.89 | 2.91 | 4.30 | 0.88 | 16.71 | 7.39 | 123.54 | 4.000 | No | Yes | 2.00 |
| 142 | 9.00 | 11.05 | 2.91 | 4.31 | 0.88 | 16.98 | 7.33 | 124.43 | 4.000 | No | Yes | 2.00 |
| 143 | 9.05 | 11.29 | 2.90 | 4.33 | 0.88 | 17.35 | 7.24 | 125.55 | 4.000 | No | Yes | 2.00 |
| 144 | 9.09 | 11.56 | 2.89 | 4.31 | 0.88 | 17.78 | 7.10 | 126.26 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 145 | 9.10 | 11.96 | 2.88 | 4.27 | 0.87 | 18.43 | 6.89 | 127.03 | 4.000 | No | Yes | 2.00 |
| 146 | 9.14 | 12.47 | 2.86 | 4.24 | 0.87 | 19.24 | 6.66 | 128.15 | 4.000 | No | Yes | 2.00 |
| 147 | 9.20 | 13.21 | 2.84 | 4.16 | 0.86 | 20.42 | 6.33 | 129.23 | 4.000 | No | Yes | 2.00 |
| 148 | 9.24 | 14.09 | 2.81 | 4.06 | 0.85 | 21.83 | 5.95 | 129.98 | 4.000 | No | Yes | 2.00 |
| 149 | 9.29 | 15.03 | 2.78 | 3.93 | 0.84 | 23.34 | 5.57 | 129.97 | 4.000 | No | Yes | 2.00 |
| 150 | 9.31 | 15.90 | 2.75 | 3.85 | 0.83 | 24.74 | 5.28 | 130.54 | 4.000 | No | Yes | 2.00 |
| 151 | 9.38 | 16.61 | 2.73 | 3.79 | 0.83 | 25.88 | 5.06 | 130.87 | 4.000 | Yes | Yes | 2.00 |
| 152 | 9.41 | 17.32 | 2.71 | 3.66 | 0.82 | 27.00 | 4.80 | 129.53 | 4.000 | Yes | Yes | 2.00 |
| 153 | 9.47 | 18.02 | 2.68 | 3.45 | 0.81 | 28.13 | 4.48 | 126.15 | 4.000 | Yes | Yes | 2.00 |
| 154 | 9.53 | 19.33 | 2.62 | 3.03 | 0.79 | 30.23 | 3.91 | 118.10 | 4.000 | Yes | Yes | 2.00 |
| 155 | 9.62 | 21.08 | 2.54 | 2.58 | 0.77 | 33.03 | 3.29 | 108.83 | 4.000 | Yes | No | 2.00 |
| 156 | 9.67 | 23.71 | 2.45 | 2.07 | 0.74 | 36.88 | 2.63 | 97.08 | 4.000 | Yes | No | 2.00 |
| 157 | 9.77 | 26.25 | 2.37 | 1.72 | 0.72 | 39.96 | 2.22 | 88.55 | 4.000 | Yes | No | 2.00 |
| 158 | 9.81 | 28.83 | 2.29 | 1.42 | 0.70 | 43.12 | 1.89 | 81.52 | 4.000 | Yes | No | 2.00 |
| 159 | 9.90 | 30.67 | 2.24 | 1.23 | 0.68 | 45.16 | 1.72 | 77.57 | 4.000 | Yes | No | 2.00 |
| 160 | 9.97 | 32.26 | 2.20 | 1.11 | 0.67 | 46.92 | 1.61 | 75.55 | 4.000 | Yes | No | 2.00 |
| 161 | 10.06 | 32.63 | 2.20 | 1.11 | 0.67 | 47.13 | 1.61 | 75.67 | 4.000 | No | No | 2.00 |
| 162 | 10.20 | 32.13 | 2.22 | 1.20 | 0.68 | 46.19 | 1.68 | 77.59 | 4.000 | Yes | No | 2.00 |
| 163 | 10.30 | 29.29 | 2.26 | 1.22 | 0.69 | 42.06 | 1.79 | 75.15 | 4.000 | Yes | No | 2.00 |
| 164 | 10.44 | 25.52 | 2.33 | 1.34 | 0.71 | 36.67 | 2.06 | 75.52 | 4.000 | Yes | No | 2.00 |
| 165 | 10.54 | 20.70 | 2.45 | 1.61 | 0.74 | 30.03 | 2.66 | 79.87 | 4.000 | Yes | No | 2.00 |
| 166 | 10.63 | 16.56 | 2.64 | 2.51 | 0.80 | 24.49 | 4.08 | 99.92 | 4.000 | Yes | Yes | 2.00 |
| 167 | 10.74 | 13.83 | 2.78 | 3.48 | 0.84 | 20.66 | 5.64 | 116.62 | 4.000 | Yes | Yes | 2.00 |
| 168 | 10.78 | 12.62 | 2.86 | 4.22 | 0.87 | 18.99 | 6.71 | 127.39 | 4.000 | Yes | Yes | 2.00 |
| 169 | 10.83 | 12.48 | 2.88 | 4.44 | 0.87 | 18.76 | 6.96 | 130.59 | 4.000 | Yes | Yes | 2.00 |
| 170 | 10.88 | 12.31 | 2.90 | 4.63 | 0.88 | 18.47 | 7.21 | 133.16 | 4.000 | Yes | Yes | 2.00 |
| 171 | 10.89 | 12.15 | 2.92 | 4.89 | 0.88 | 18.24 | 7.50 | 136.86 | 4.000 | Yes | Yes | 2.00 |
| 172 | 10.97 | 12.25 | 2.93 | 5.04 | 0.89 | 18.30 | 7.62 | 139.36 | 4.000 | No | Yes | 2.00 |
| 173 | 11.02 | 12.48 | 2.93 | 5.14 | 0.89 | 18.59 | 7.62 | 141.70 | 4.000 | No | Yes | 2.00 |
| 174 | 11.07 | 12.79 | 2.92 | 5.12 | 0.88 | 18.96 | 7.51 | 142.37 | 4.000 | No | Yes | 2.00 |
| 175 | 11.11 | 13.06 | 2.91 | 5.11 | 0.88 | 19.28 | 7.42 | 143.00 | 4.000 | No | Yes | 2.00 |
| 176 | 11.16 | 13.39 | 2.91 | 5.09 | 0.88 | 19.70 | 7.30 | 143.71 | 4.000 | No | Yes | 2.00 |
| 177 | 11.21 | 13.76 | 2.90 | 5.09 | 0.88 | 20.15 | 7.19 | 144.81 | 4.000 | No | Yes | 2.00 |
| 178 | 11.26 | 14.14 | 2.89 | 5.11 | 0.88 | 20.62 | 7.10 | 146.37 | 4.000 | No | Yes | 2.00 |
| 179 | 11.30 | 14.37 | 2.89 | 5.20 | 0.88 | 20.90 | 7.10 | 148.42 | 4.000 | No | Yes | 2.00 |
| 180 | 11.36 | 14.54 | 2.90 | 5.29 | 0.88 | 21.07 | 7.14 | 150.43 | 4.000 | No | Yes | 2.00 |
| 181 | 11.40 | 14.68 | 2.90 | 5.36 | 0.88 | 21.19 | 7.17 | 151.92 | 4.000 | No | Yes | 2.00 |
| 182 | 11.45 | 14.81 | 2.90 | 5.40 | 0.88 | 21.32 | 7.18 | 152.97 | 4.000 | No | Yes | 2.00 |
| 183 | 11.50 | 15.04 | 2.89 | 5.41 | 0.88 | 21.57 | 7.12 | 153.64 | 4.000 | No | Yes | 2.00 |
| 184 | 11.55 | 15.31 | 2.89 | 5.41 | 0.88 | 21.86 | 7.06 | 154.44 | 4.000 | No | Yes | 2.00 |
| 185 | 11.60 | 15.85 | 2.88 | 5.35 | 0.87 | 22.53 | 6.88 | 155.07 | 4.000 | No | Yes | 2.00 |
| 186 | 11.66 | 16.56 | 2.86 | 5.25 | 0.87 | 23.39 | 6.63 | 155.14 | 4.000 | No | Yes | 2.00 |
| 187 | 11.74 | 17.40 | 2.84 | 5.06 | 0.86 | 24.38 | 6.31 | 153.92 | 4.000 | No | Yes | 2.00 |
| 188 | 11.84 | 17.98 | 2.82 | 4.98 | 0.86 | 24.97 | 6.15 | 153.46 | 4.000 | No | Yes | 2.00 |
| 189 | 11.93 | 18.18 | 2.82 | 5.03 | 0.86 | 25.08 | 6.17 | 154.65 | 4.000 | No | Yes | 2.00 |
| 190 | 12.04 | 18.04 | 2.84 | 5.23 | 0.86 | 24.73 | 6.38 | 157.76 | 4.000 | No | Yes | 2.00 |
| 191 | 12.13 | 17.87 | 2.86 | 5.42 | 0.87 | 24.37 | 6.58 | 160.42 | 4.000 | No | Yes | 2.00 |
| 192 | 12.22 | 17.67 | 2.87 | 5.55 | 0.87 | 23.94 | 6.76 | 161.87 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 193 | 12.27 | 17.51 | 2.88 | 5.59 | 0.87 | 23.64 | 6.85 | 161.93 | 4.000 | No | Yes | 2.00 |
| 194 | 12.37 | 17.27 | 2.88 | 5.64 | 0.87 | 23.16 | 6.98 | 161.58 | 4.000 | No | Yes | 2.00 |
| 195 | 12.41 | 17.17 | 2.89 | 5.65 | 0.87 | 22.94 | 7.03 | 161.26 | 4.000 | No | Yes | 2.00 |
| 196 | 12.51 | 17.06 | 2.89 | 5.71 | 0.88 | 22.65 | 7.13 | 161.48 | 4.000 | No | Yes | 2.00 |
| 197 | 12.56 | 17.23 | 2.89 | 5.68 | 0.88 | 22.78 | 7.08 | 161.37 | 4.000 | No | Yes | 2.00 |
| 198 | 12.65 | 17.64 | 2.88 | 5.61 | 0.87 | 23.15 | 6.96 | 161.03 | 4.000 | No | Yes | 2.00 |
| 199 | 12.71 | 18.45 | 2.86 | 5.51 | 0.87 | 24.09 | 6.70 | 161.44 | 4.000 | No | Yes | 2.00 |
| 200 | 12.79 | 19.23 | 2.86 | 5.57 | 0.87 | 24.96 | 6.59 | 164.56 | 4.000 | No | Yes | 2.00 |
| 201 | 12.89 | 20.10 | 2.85 | 5.67 | 0.86 | 25.92 | 6.50 | 168.54 | 4.000 | No | Yes | 2.00 |
| 202 | 12.96 | 20.98 | 2.84 | 5.80 | 0.86 | 26.96 | 6.43 | 173.33 | 4.000 | No | Yes | 2.00 |
| 203 | 13.04 | 22.23 | 2.82 | 5.70 | 0.86 | 28.37 | 6.15 | 174.57 | 4.000 | Yes | Yes | 2.00 |
| 204 | 13.13 | 24.11 | 2.78 | 5.33 | 0.84 | 30.49 | 5.62 | 171.40 | 4.000 | Yes | Yes | 2.00 |
| 205 | 13.23 | 26.80 | 2.65 | 3.76 | 0.80 | 33.27 | 4.19 | 139.58 | 4.000 | Yes | Yes | 2.00 |
| 206 | 13.30 | 30.34 | 2.49 | 2.43 | 0.76 | 36.95 | 2.91 | 107.47 | 4.000 | Yes | No | 2.00 |
| 207 | 13.37 | 34.15 | 2.32 | 1.49 | 0.70 | 40.77 | 2.02 | 82.17 | 4.000 | Yes | No | 2.00 |
| 208 | 13.47 | 38.32 | 2.29 | 1.49 | 0.69 | 45.44 | 1.87 | 85.15 | 4.000 | Yes | No | 2.00 |
| 209 | 13.57 | 38.79 | 2.31 | 1.62 | 0.70 | 45.84 | 1.94 | 89.15 | 4.000 | No | No | 2.00 |
| 210 | 13.61 | 39.19 | 2.31 | 1.69 | 0.70 | 46.27 | 1.98 | 91.39 | 4.000 | No | No | 2.00 |
| 211 | 13.62 | 40.31 | 2.30 | 1.69 | 0.70 | 47.52 | 1.94 | 92.31 | 4.000 | No | No | 2.00 |
| 212 | 13.68 | 44.31 | 2.26 | 1.59 | 0.69 | 51.92 | 1.78 | 92.36 | 4.000 | No | No | 2.00 |
| 213 | 13.73 | 47.82 | 2.22 | 1.53 | 0.68 | 55.76 | 1.68 | 93.57 | 4.000 | No | No | 2.00 |
| 214 | 13.77 | 50.08 | 2.21 | 1.55 | 0.67 | 58.23 | 1.65 | 95.79 | 4.000 | No | No | 2.00 |
| 215 | 13.87 | 52.91 | 2.20 | 1.55 | 0.67 | 61.16 | 1.61 | 98.26 | 4.000 | No | No | 2.00 |
| 216 | 13.93 | 55.78 | 2.19 | 1.58 | 0.66 | 64.26 | 1.58 | 101.41 | 4.000 | No | No | 2.00 |
| 217 | 14.00 | 58.54 | 2.17 | 1.60 | 0.66 | 67.15 | 1.55 | 104.21 | 4.000 | No | No | 2.00 |
| 218 | 14.06 | 60.62 | 2.17 | 1.63 | 0.66 | 69.33 | 1.54 | 106.89 | 4.000 | No | No | 2.00 |
| 219 | 14.12 | 62.21 | 2.17 | 1.67 | 0.66 | 70.95 | 1.54 | 109.37 | 4.000 | No | No | 2.00 |
| 220 | 14.21 | 63.05 | 2.17 | 1.71 | 0.66 | 71.63 | 1.55 | 111.13 | 4.000 | No | No | 2.00 |
| 221 | 14.25 | 63.45 | 2.18 | 1.75 | 0.66 | 71.96 | 1.56 | 112.44 | 4.000 | No | No | 2.00 |
| 222 | 14.35 | 63.35 | 2.18 | 1.78 | 0.66 | 71.51 | 1.58 | 112.67 | 4.000 | No | No | 2.00 |
| 223 | 14.45 | 62.61 | 2.19 | 1.80 | 0.67 | 70.37 | 1.60 | 112.38 | 4.000 | No | No | 2.00 |
| 224 | 14.50 | 61.06 | 2.21 | 1.83 | 0.67 | 68.50 | 1.63 | 111.75 | 4.000 | No | No | 2.00 |
| 225 | 14.59 | 59.18 | 2.22 | 1.87 | 0.68 | 66.15 | 1.68 | 111.04 | 4.000 | No | No | 2.00 |
| 226 | 14.64 | 57.19 | 2.24 | 1.92 | 0.68 | 63.82 | 1.73 | 110.49 | 4.000 | No | No | 2.00 |
| 227 | 14.74 | 55.60 | 2.26 | 1.95 | 0.69 | 61.79 | 1.78 | 110.08 | 4.000 | No | No | 2.00 |
| 228 | 14.80 | 54.22 | 2.27 | 1.99 | 0.69 | 60.12 | 1.83 | 109.86 | 4.000 | No | No | 2.00 |
| 229 | 14.88 | 53.18 | 2.28 | 2.02 | 0.69 | 58.73 | 1.87 | 109.70 | 4.000 | No | No | 2.00 |
| 230 | 14.97 | 52.24 | 2.30 | 2.05 | 0.70 | 57.45 | 1.91 | 109.62 | 4.000 | No | No | 2.00 |
| 231 | 15.05 | 51.43 | 2.31 | 2.08 | 0.70 | 56.38 | 1.95 | 110.04 | 4.000 | No | No | 2.00 |
| 232 | 15.13 | 50.85 | 2.32 | 2.12 | 0.70 | 55.53 | 1.99 | 110.56 | 4.000 | No | No | 2.00 |
| 233 | 15.21 | 50.95 | 2.32 | 2.12 | 0.70 | 55.42 | 1.99 | 110.46 | 4.000 | No | No | 2.00 |
| 234 | 15.28 | 52.23 | 2.30 | 2.06 | 0.70 | 56.58 | 1.93 | 109.48 | 4.000 | No | No | 2.00 |
| 235 | 15.36 | 55.10 | 2.27 | 1.95 | 0.69 | 59.37 | 1.82 | 108.07 | 4.000 | No | No | 2.00 |
| 236 | 15.41 | 60.22 | 2.22 | 1.78 | 0.67 | 64.61 | 1.66 | 107.30 | 4.000 | No | No | 2.00 |
| 237 | 15.50 | 66.38 | 2.16 | 1.62 | 0.66 | 70.74 | 1.53 | 108.00 | 4.000 | No | No | 2.00 |
| 238 | 15.55 | 72.78 | 2.07 | 1.31 | 0.63 | 77.07 | 1.38 | 106.45 | 4.000 | No | No | 2.00 |
| 239 | 15.65 | 76.92 | 2.00 | 1.07 | 0.61 | 80.83 | 1.31 | 105.71 | 4.000 | No | No | 2.00 |
| 240 | 15.71 | 78.17 | 1.94 | 0.88 | 0.59 | 81.68 | 1.27 | 103.43 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 241 | 15.79 | 75.07 | 1.96 | 0.89 | 0.60 | 78.22 | 1.28 | 99.99 | 4.000 | Yes | No | 2.00 |
| 242 | 15.89 | 67.29 | 2.02 | 0.97 | 0.61 | 69.97 | 1.33 | 92.88 | 4.000 | Yes | No | 2.00 |
| 243 | 15.90 | 61.09 | 2.07 | 1.04 | 0.63 | 63.58 | 1.38 | 88.03 | 4.000 | Yes | No | 2.00 |
| 244 | 15.94 | 56.21 | 2.12 | 1.11 | 0.64 | 58.47 | 1.45 | 84.99 | 4.000 | Yes | No | 2.00 |
| 245 | 16.00 | 53.24 | 2.15 | 1.16 | 0.65 | 55.28 | 1.51 | 83.45 | 4.000 | Yes | No | 2.00 |
| 246 | 16.06 | 47.68 | 2.22 | 1.30 | 0.67 | 49.45 | 1.67 | 82.65 | 4.000 | Yes | No | 2.00 |
| 247 | 16.14 | 40.74 | 2.32 | 1.56 | 0.71 | 42.17 | 2.02 | 85.02 | 4.000 | Yes | No | 2.00 |
| 248 | 16.19 | 34.10 | 2.43 | 1.87 | 0.74 | 35.24 | 2.56 | 90.26 | 4.000 | Yes | No | 2.00 |
| 249 | 16.26 | 27.10 | 2.57 | 2.32 | 0.78 | 27.88 | 3.51 | 97.89 | 4.000 | Yes | No | 2.00 |
| 250 | 16.33 | 21.54 | 2.70 | 2.80 | 0.82 | 22.01 | 4.74 | 104.24 | 4.000 | Yes | Yes | 2.00 |
| 251 | 16.38 | 17.06 | 2.83 | 3.31 | 0.86 | 17.28 | 6.24 | 107.80 | 4.000 | Yes | Yes | 2.00 |
| 252 | 16.47 | 14.43 | 2.93 | 3.75 | 0.89 | 14.45 | 7.58 | 109.50 | 4.000 | Yes | Yes | 2.00 |
| 253 | 16.54 | 12.64 | 3.00 | 4.14 | 1.00 | 12.69 | 8.71 | 110.54 | 4.000 | Yes | Yes | 2.00 |
| 254 | 16.62 | 11.80 | 3.05 | 4.58 | 1.00 | 11.71 | 9.67 | 113.31 | 4.000 | No | Yes | 2.00 |
| 255 | 16.70 | 11.53 | 3.08 | 4.88 | 1.00 | 11.36 | 10.18 | 115.66 | 4.000 | No | Yes | 2.00 |
| 256 | 16.76 | 12.28 | 3.06 | 4.98 | 1.00 | 12.12 | 9.88 | 119.66 | 4.000 | No | Yes | 2.00 |
| 257 | 16.86 | 14.88 | 2.96 | 4.36 | 1.00 | 14.80 | 8.08 | 119.59 | 4.000 | Yes | Yes | 2.00 |
| 258 | 16.90 | 19.33 | 2.82 | 3.59 | 0.85 | 19.15 | 6.07 | 116.24 | 4.000 | Yes | Yes | 2.00 |
| 259 | 16.98 | 25.84 | 2.65 | 2.82 | 0.80 | 25.69 | 4.22 | 108.51 | 4.000 | Yes | Yes | 2.00 |
| 260 | 17.05 | 35.42 | 2.48 | 2.18 | 0.75 | 35.23 | 2.81 | 99.11 | 4.000 | Yes | No | 2.00 |
| 261 | 17.14 | 47.54 | 2.30 | 1.68 | 0.70 | 47.19 | 1.94 | 91.71 | 4.000 | Yes | No | 2.00 |
| 262 | 17.20 | 61.48 | 2.15 | 1.32 | 0.65 | 60.90 | 1.51 | 91.88 | 4.000 | Yes | No | 2.00 |
| 263 | 17.29 | 73.03 | 2.05 | 1.11 | 0.62 | 72.03 | 1.35 | 97.56 | 4.000 | Yes | No | 2.00 |
| 264 | 17.34 | 81.99 | 1.99 | 1.01 | 0.60 | 80.70 | 1.30 | 104.58 | 4.000 | Yes | No | 2.00 |
| 265 | 17.44 | 86.87 | 1.97 | 1.01 | 0.60 | 85.21 | 1.28 | 109.31 | 4.000 | No | No | 2.00 |
| 266 | 17.50 | 88.89 | 1.93 | 0.91 | 0.59 | 86.96 | 1.26 | 109.36 | 4.000 | No | No | 2.00 |
| 267 | 17.58 | 88.15 | 1.91 | 0.82 | 0.58 | 85.91 | 1.24 | 106.78 | 4.000 | No | No | 2.00 |
| 268 | 17.64 | 85.02 | 1.90 | 0.75 | 0.58 | 82.63 | 1.24 | 102.13 | 4.000 | No | No | 2.00 |
| 269 | 17.75 | 80.50 | 1.95 | 0.85 | 0.59 | 77.97 | 1.27 | 99.12 | 4.000 | No | No | 2.00 |
| 270 | 17.82 | 72.08 | 2.04 | 1.03 | 0.62 | 69.66 | 1.35 | 93.80 | 4.000 | No | No | 2.00 |
| 271 | 17.89 | 66.02 | 2.11 | 1.19 | 0.64 | 63.60 | 1.43 | 91.18 | 4.000 | No | No | 2.00 |
| 272 | 17.89 | 62.68 | 2.15 | 1.30 | 0.65 | 60.37 | 1.51 | 91.04 | 4.000 | No | No | 2.00 |
| 273 | 17.96 | 64.06 | 2.15 | 1.31 | 0.65 | 61.55 | 1.50 | 92.30 | 4.000 | No | No | 2.00 |
| 274 | 18.02 | 65.34 | 2.15 | 1.35 | 0.65 | 62.67 | 1.51 | 94.33 | 4.000 | No | No | 2.00 |
| 275 | 18.07 | 66.86 | 2.15 | 1.39 | 0.65 | 64.01 | 1.51 | 96.43 | 4.000 | No | No | 2.00 |
| 276 | 18.17 | 68.78 | 2.14 | 1.40 | 0.65 | 65.62 | 1.49 | 98.02 | 4.000 | No | No | 2.00 |
| 277 | 18.22 | 68.74 | 2.15 | 1.43 | 0.65 | 65.47 | 1.51 | 98.54 | 4.000 | Yes | No | 2.00 |
| 278 | 18.30 | 65.20 | 2.19 | 1.53 | 0.66 | 61.85 | 1.59 | 98.20 | 4.000 | Yes | No | 2.00 |
| 279 | 18.36 | 57.69 | 2.27 | 1.79 | 0.69 | 54.52 | 1.83 | 99.83 | 4.000 | Yes | No | 2.00 |
| 280 | 18.42 | 49.20 | 2.39 | 2.19 | 0.72 | 46.28 | 2.30 | 106.36 | 4.000 | Yes | No | 2.00 |
| 281 | 18.50 | 39.97 | 2.53 | 2.80 | 0.77 | 37.31 | 3.16 | 118.00 | 4.000 | Yes | No | 2.00 |
| 282 | 18.56 | 32.38 | 2.66 | 3.50 | 0.81 | 29.97 | 4.32 | 129.55 | 4.000 | Yes | Yes | 2.00 |
| 283 | 18.62 | 25.71 | 2.80 | 4.24 | 0.85 | 23.53 | 5.80 | 136.40 | 4.000 | Yes | Yes | 2.00 |
| 284 | 18.69 | 23.96 | 2.82 | 4.26 | 0.85 | 21.78 | 6.13 | 133.60 | 4.000 | Yes | Yes | 2.00 |
| 285 | 18.76 | 22.21 | 2.86 | 4.37 | 0.87 | 20.05 | 6.60 | 132.24 | 4.000 | Yes | Yes | 2.00 |
| 286 | 18.84 | 24.30 | 2.80 | 4.02 | 0.85 | 21.95 | 5.90 | 129.41 | 4.000 | Yes | Yes | 2.00 |
| 287 | 18.89 | 31.88 | 2.66 | 3.30 | 0.80 | 29.04 | 4.26 | 123.66 | 4.000 | Yes | Yes | 2.00 |
| 288 | 18.98 | 52.85 | 2.37 | 2.20 | 0.72 | 48.61 | 2.23 | 108.20 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 289 | 19.05 | 78.42 | 2.16 | 1.65 | 0.66 | 72.48 | 1.52 | 110.23 | 4.000 | Yes | No | 2.00 |
| 290 | 19.12 | 101.80 | 2.02 | 1.36 | 0.61 | 94.21 | 1.32 | 124.65 | 4.000 | Yes | No | 2.00 |
| 291 | 19.18 | 115.88 | 1.95 | 1.24 | 0.59 | 107.18 | 1.27 | 136.09 | 4.000 | Yes | No | 2.00 |
| 292 | 19.24 | 124.07 | 1.91 | 1.18 | 0.58 | 114.61 | 1.25 | 142.72 | 4.000 | Yes | No | 2.00 |
| 293 | 19.32 | 126.76 | 1.90 | 1.17 | 0.58 | 116.83 | 1.24 | 144.84 | 4.000 | No | No | 2.00 |
| 294 | 19.38 | 126.53 | 1.92 | 1.21 | 0.58 | 116.38 | 1.25 | 145.16 | 4.000 | No | No | 2.00 |
| 295 | 19.46 | 124.81 | 1.94 | 1.27 | 0.59 | 114.42 | 1.26 | 144.25 | 4.000 | No | No | 2.00 |
| 296 | 19.54 | 122.62 | 1.96 | 1.34 | 0.60 | 112.08 | 1.28 | 142.92 | 4.000 | No | No | 2.00 |
| 297 | 19.62 | 121.00 | 1.97 | 1.38 | 0.60 | 110.26 | 1.28 | 141.68 | 4.000 | No | No | 2.00 |
| 298 | 19.70 | 119.99 | 1.98 | 1.40 | 0.60 | 109.01 | 1.29 | 140.65 | 4.000 | No | No | 2.00 |
| 299 | 19.80 | 119.75 | 1.98 | 1.39 | 0.60 | 108.41 | 1.29 | 140.01 | 4.000 | No | No | 2.00 |
| 300 | 19.85 | 119.75 | 1.98 | 1.39 | 0.60 | 108.23 | 1.29 | 139.71 | 4.000 | No | No | 2.00 |
| 301 | 19.94 | 119.95 | 1.98 | 1.40 | 0.60 | 108.07 | 1.29 | 139.71 | 4.000 | No | No | 2.00 |
| 302 | 20.03 | 120.73 | 1.96 | 1.31 | 0.60 | 108.50 | 1.28 | 138.61 | 4.000 | No | No | 2.00 |
| 303 | 20.13 | 121.84 | 1.94 | 1.23 | 0.59 | 109.19 | 1.26 | 137.92 | 4.000 | No | No | 2.00 |
| 304 | 20.19 | 123.33 | 1.91 | 1.14 | 0.58 | 110.40 | 1.25 | 137.60 | 4.000 | No | No | 2.00 |
| 305 | 20.29 | 124.05 | 1.92 | 1.16 | 0.58 | 110.67 | 1.25 | 138.32 | 4.000 | No | No | 2.00 |
| 306 | 20.39 | 124.51 | 1.93 | 1.18 | 0.59 | 110.70 | 1.25 | 138.76 | 4.000 | No | No | 2.00 |
| 307 | 20.43 | 124.14 | 1.93 | 1.21 | 0.59 | 110.23 | 1.26 | 138.70 | 4.000 | No | No | 2.00 |
| 308 | 20.47 | 124.09 | 1.94 | 1.23 | 0.59 | 109.99 | 1.26 | 138.78 | 4.000 | No | No | 2.00 |
| 309 | 20.52 | 123.97 | 1.95 | 1.26 | 0.59 | 109.69 | 1.27 | 139.06 | 4.000 | No | No | 2.00 |
| 310 | 20.61 | 123.97 | 1.96 | 1.30 | 0.59 | 109.33 | 1.27 | 139.29 | 4.000 | No | No | 2.00 |
| 311 | 20.66 | 123.26 | 1.97 | 1.34 | 0.60 | 108.48 | 1.28 | 139.08 | 4.000 | No | No | 2.00 |
| 312 | 20.71 | 122.22 | 1.98 | 1.36 | 0.60 | 107.35 | 1.29 | 138.34 | 4.000 | No | No | 2.00 |
| 313 | 20.77 | 121.00 | 1.99 | 1.39 | 0.60 | 106.04 | 1.30 | 137.35 | 4.000 | No | No | 2.00 |
| 314 | 20.85 | 120.53 | 1.99 | 1.40 | 0.60 | 105.33 | 1.30 | 136.79 | 4.000 | No | No | 2.00 |
| 315 | 20.91 | 120.63 | 1.99 | 1.40 | 0.61 | 105.23 | 1.30 | 136.74 | 4.000 | No | No | 2.00 |
| 316 | 21.00 | 121.00 | 1.99 | 1.40 | 0.61 | 105.23 | 1.30 | 136.71 | 4.000 | No | No | 2.00 |
| 317 | 21.05 | 120.93 | 1.99 | 1.40 | 0.61 | 105.01 | 1.30 | 136.53 | 4.000 | No | No | 2.00 |
| 318 | 21.11 | 120.50 | 2.00 | 1.41 | 0.61 | 104.40 | 1.30 | 136.06 | 4.000 | No | No | 2.00 |
| 319 | 21.19 | 120.16 | 2.00 | 1.42 | 0.61 | 103.82 | 1.31 | 135.66 | 4.000 | No | No | 2.00 |
| 320 | 21.24 | 120.23 | 2.00 | 1.43 | 0.61 | 103.70 | 1.31 | 135.67 | 4.000 | No | No | 2.00 |
| 321 | 21.34 | 120.39 | 2.00 | 1.43 | 0.61 | 103.52 | 1.31 | 135.57 | 4.000 | No | No | 2.00 |
| 322 | 21.39 | 119.99 | 2.01 | 1.44 | 0.61 | 103.00 | 1.31 | 135.16 | 4.000 | No | No | 2.00 |
| 323 | 21.48 | 118.68 | 2.01 | 1.45 | 0.61 | 101.52 | 1.32 | 133.84 | 4.000 | No | No | 2.00 |
| 324 | 21.53 | 116.39 | 2.02 | 1.47 | 0.61 | 99.34 | 1.33 | 131.86 | 4.000 | No | No | 2.00 |
| 325 | 21.64 | 113.86 | 2.03 | 1.47 | 0.62 | 96.79 | 1.34 | 129.36 | 4.000 | No | No | 2.00 |
| 326 | 21.72 | 111.80 | 2.02 | 1.38 | 0.61 | 94.83 | 1.33 | 125.65 | 4.000 | No | No | 2.00 |
| 327 | 21.81 | 110.79 | 2.00 | 1.27 | 0.61 | 93.80 | 1.31 | 122.48 | 4.000 | No | No | 2.00 |
| 328 | 21.89 | 110.52 | 1.97 | 1.15 | 0.60 | 93.48 | 1.28 | 120.09 | 4.000 | No | No | 2.00 |
| 329 | 21.97 | 110.69 | 1.96 | 1.11 | 0.60 | 93.44 | 1.28 | 119.40 | 4.000 | No | No | 2.00 |
| 330 | 22.05 | 110.81 | 1.96 | 1.09 | 0.60 | 93.32 | 1.27 | 118.94 | 4.000 | No | No | 2.00 |
| 331 | 22.12 | 110.92 | 1.95 | 1.07 | 0.59 | 93.25 | 1.27 | 118.64 | 4.000 | No | No | 2.00 |
| 332 | 22.13 | 110.89 | 1.95 | 1.07 | 0.59 | 93.20 | 1.27 | 118.54 | 4.000 | No | No | 2.00 |
| 333 | 22.18 | 111.98 | 1.95 | 1.06 | 0.59 | 94.01 | 1.27 | 119.22 | 4.000 | No | No | 2.00 |
| 334 | 22.22 | 114.49 | 1.93 | 1.04 | 0.59 | 96.10 | 1.26 | 121.02 | 4.000 | No | No | 2.00 |
| 335 | 22.28 | 118.47 | 1.91 | 1.01 | 0.58 | 99.41 | 1.25 | 123.90 | 4.000 | No | No | 2.00 |
| 336 | 22.33 | 122.55 | 1.90 | 0.98 | 0.58 | 102.85 | 1.23 | 126.89 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 337 | 22.38 | 126.36 | 1.88 | 0.96 | 0.57 | 106.02 | 1.22 | 129.64 | 4.000 | No | No | 2.00 |
| 338 | 22.41 | 129.99 | 1.86 | 0.93 | 0.57 | 109.11 | 1.21 | 132.05 | 4.000 | No | No | 2.00 |
| 339 | 22.51 | 133.16 | 1.85 | 0.91 | 0.56 | 111.59 | 1.20 | 133.67 | 4.000 | No | No | 2.00 |
| 340 | 22.56 | 135.86 | 1.83 | 0.88 | 0.56 | 113.83 | 1.18 | 134.77 | 4.000 | No | No | 2.00 |
| 341 | 22.61 | 137.68 | 1.82 | 0.85 | 0.55 | 115.29 | 1.17 | 135.13 | 4.000 | No | No | 2.00 |
| 342 | 22.65 | 139.23 | 1.81 | 0.82 | 0.55 | 116.56 | 1.16 | 135.07 | 4.000 | No | No | 2.00 |
| 343 | 22.71 | 140.30 | 1.79 | 0.80 | 0.55 | 117.38 | 1.15 | 134.57 | 4.000 | No | No | 2.00 |
| 344 | 22.76 | 141.15 | 1.78 | 0.77 | 0.54 | 118.01 | 1.13 | 133.54 | 4.000 | No | No | 2.00 |
| 345 | 22.85 | 141.55 | 1.77 | 0.74 | 0.54 | 118.16 | 1.12 | 132.33 | 4.000 | No | No | 2.00 |
| 346 | 22.89 | 141.79 | 1.77 | 0.72 | 0.54 | 118.28 | 1.11 | 131.19 | 4.000 | No | No | 2.00 |
| 347 | 22.99 | 141.85 | 1.76 | 0.71 | 0.54 | 118.07 | 1.10 | 130.38 | 4.000 | No | No | 2.00 |
| 348 | 23.04 | 142.19 | 1.76 | 0.71 | 0.54 | 118.24 | 1.10 | 129.89 | 4.000 | No | No | 2.00 |
| 349 | 23.12 | 143.24 | 1.75 | 0.70 | 0.53 | 118.92 | 1.09 | 129.72 | 4.000 | No | No | 2.00 |
| 350 | 23.18 | 145.12 | 1.75 | 0.69 | 0.53 | 120.36 | 1.08 | 129.86 | 4.000 | No | No | 2.00 |
| 351 | 23.24 | 147.55 | 1.74 | 0.69 | 0.53 | 122.28 | 1.07 | 130.48 | 4.000 | No | No | 2.00 |
| 352 | 23.33 | 150.28 | 1.73 | 0.68 | 0.53 | 124.35 | 1.05 | 131.06 | 4.000 | No | No | 2.00 |
| 353 | 23.38 | 152.77 | 1.73 | 0.68 | 0.53 | 126.31 | 1.04 | 131.98 | 4.000 | No | No | 2.00 |
| 354 | 23.47 | 154.92 | 1.72 | 0.68 | 0.53 | 127.86 | 1.04 | 132.70 | 4.000 | No | No | 2.00 |
| 355 | 23.52 | 155.87 | 1.73 | 0.70 | 0.53 | 128.46 | 1.05 | 134.34 | 4.000 | No | No | 2.00 |
| 356 | 23.61 | 155.50 | 1.74 | 0.72 | 0.53 | 127.76 | 1.06 | 136.02 | 4.000 | No | No | 2.00 |
| 357 | 23.68 | 153.41 | 1.76 | 0.76 | 0.54 | 125.65 | 1.10 | 137.67 | 4.000 | No | No | 2.00 |
| 358 | 23.76 | 149.87 | 1.78 | 0.79 | 0.54 | 122.29 | 1.13 | 137.84 | 4.000 | No | No | 2.00 |
| 359 | 23.83 | 145.42 | 1.80 | 0.83 | 0.55 | 118.19 | 1.16 | 136.72 | 4.000 | No | No | 2.00 |
| 360 | 23.90 | 140.77 | 1.83 | 0.87 | 0.56 | 113.95 | 1.18 | 134.56 | 4.000 | No | No | 2.00 |
| 361 | 23.97 | 136.02 | 1.85 | 0.91 | 0.56 | 109.66 | 1.20 | 131.87 | 4.000 | No | No | 2.00 |
| 362 | 24.05 | 130.36 | 1.88 | 0.95 | 0.57 | 104.58 | 1.22 | 128.11 | 4.000 | No | No | 2.00 |
| 363 | 24.10 | 123.83 | 1.92 | 1.01 | 0.58 | 98.86 | 1.25 | 123.41 | 4.000 | No | No | 2.00 |
| 364 | 24.19 | 116.14 | 1.96 | 1.08 | 0.60 | 92.13 | 1.28 | 117.58 | 4.000 | No | No | 2.00 |
| 365 | 24.27 | 109.37 | 2.00 | 1.15 | 0.61 | 86.22 | 1.31 | 112.54 | 4.000 | No | No | 2.00 |
| 366 | 24.34 | 103.31 | 2.03 | 1.21 | 0.62 | 80.98 | 1.34 | 108.37 | 4.000 | No | No | 2.00 |
| 367 | 24.43 | 99.26 | 2.06 | 1.26 | 0.63 | 77.39 | 1.37 | 105.81 | 4.000 | No | No | 2.00 |
| 368 | 24.48 | 95.99 | 2.09 | 1.32 | 0.63 | 74.54 | 1.40 | 104.29 | 4.000 | No | No | 2.00 |
| 369 | 24.57 | 93.77 | 2.11 | 1.39 | 0.64 | 72.46 | 1.43 | 103.72 | 4.000 | No | No | 2.00 |
| 370 | 24.62 | 91.81 | 2.12 | 1.39 | 0.64 | 70.77 | 1.45 | 102.28 | 4.000 | No | No | 2.00 |
| 371 | 24.72 | 90.33 | 2.12 | 1.39 | 0.65 | 69.37 | 1.46 | 101.12 | 4.000 | No | No | 2.00 |
| 372 | 24.81 | 89.08 | 2.13 | 1.39 | 0.65 | 68.17 | 1.47 | 100.03 | 4.000 | No | No | 2.00 |
| 373 | 24.86 | 87.96 | 2.15 | 1.46 | 0.65 | 67.09 | 1.50 | 100.81 | 4.000 | No | No | 2.00 |
| 374 | 24.95 | 85.18 | 2.18 | 1.55 | 0.66 | 64.60 | 1.56 | 100.88 | 4.000 | No | No | 2.00 |
| 375 | 25.01 | 82.83 | 2.20 | 1.62 | 0.67 | 62.55 | 1.62 | 101.05 | 4.000 | No | No | 2.00 |
| 376 | 25.02 | 81.04 | 2.22 | 1.66 | 0.67 | 61.07 | 1.66 | 101.09 | 4.000 | No | No | 2.00 |
| 377 | 25.05 | 81.81 | 2.21 | 1.65 | 0.67 | 61.63 | 1.64 | 101.34 | 4.000 | No | No | 2.00 |
| 378 | 25.11 | 82.33 | 2.21 | 1.65 | 0.67 | 61.92 | 1.64 | 101.59 | 4.000 | No | No | 2.00 |
| 379 | 25.15 | 82.53 | 2.21 | 1.66 | 0.67 | 61.99 | 1.64 | 101.87 | 4.000 | No | No | 2.00 |
| 380 | 25.21 | 81.92 | 2.22 | 1.68 | 0.67 | 61.38 | 1.66 | 101.94 | 4.000 | No | No | 2.00 |
| 381 | 25.25 | 81.07 | 2.23 | 1.70 | 0.68 | 60.61 | 1.68 | 101.90 | 4.000 | No | No | 2.00 |
| 382 | 25.30 | 79.78 | 2.23 | 1.71 | 0.68 | 59.50 | 1.70 | 101.32 | 4.000 | No | No | 2.00 |
| 383 | 25.40 | 78.02 | 2.24 | 1.71 | 0.68 | 57.95 | 1.73 | 100.17 | 4.000 | No | No | 2.00 |
| 384 | 25.45 | 75.14 | 2.25 | 1.71 | 0.68 | 55.63 | 1.77 | 98.38 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 385 | 25.52 | 71.36 | 2.27 | 1.71 | 0.69 | 52.56 | 1.83 | 96.28 | 4.000 | Yes | No | 2.00 |
| 386 | 25.60 | 65.60 | 2.32 | 1.78 | 0.70 | 47.92 | 1.99 | 95.12 | 4.000 | Yes | No | 2.00 |
| 387 | 25.66 | 58.89 | 2.37 | 1.90 | 0.72 | 42.57 | 2.24 | 95.48 | 4.000 | Yes | No | 2.00 |
| 388 | 25.74 | 50.63 | 2.47 | 2.18 | 0.75 | 36.01 | 2.77 | 99.69 | 4.000 | Yes | No | 2.00 |
| 389 | 25.80 | 42.60 | 2.57 | 2.54 | 0.78 | 29.74 | 3.54 | 105.15 | 4.000 | Yes | No | 2.00 |
| 390 | 25.88 | 34.42 | 2.71 | 3.09 | 0.82 | 23.44 | 4.79 | 112.31 | 4.000 | Yes | Yes | 2.00 |
| 391 | 25.94 | 27.91 | 2.84 | 3.70 | 0.86 | 18.51 | 6.33 | 117.20 | 4.000 | Yes | Yes | 2.00 |
| 392 | 26.02 | 22.69 | 2.98 | 4.41 | 1.00 | 14.10 | 8.40 | 118.43 | 4.000 | Yes | Yes | 2.00 |
| 393 | 26.09 | 19.19 | 3.07 | 4.99 | 1.00 | 11.73 | 10.09 | 118.41 | 4.000 | No | Yes | 2.00 |
| 394 | 26.17 | 16.36 | 3.16 | 5.56 | 1.00 | 9.82 | 11.90 | 116.89 | 4.000 | No | Yes | 2.00 |
| 395 | 26.23 | 14.50 | 3.23 | 6.07 | 1.00 | 8.57 | 13.49 | 115.61 | 4.000 | No | Yes | 2.00 |
| 396 | 26.29 | 13.56 | 3.28 | 6.45 | 1.00 | 7.93 | 14.54 | 115.33 | 4.000 | No | Yes | 2.00 |
| 397 | 26.37 | 13.73 | 3.27 | 6.48 | 1.00 | 8.01 | 14.49 | 116.10 | 4.000 | No | Yes | 2.00 |
| 398 | 26.46 | 14.95 | 3.23 | 6.22 | 1.00 | 8.78 | 13.45 | 118.10 | 4.000 | No | Yes | 2.00 |
| 399 | 26.55 | 16.56 | 3.18 | 5.88 | 1.00 | 9.80 | 12.25 | 120.00 | 4.000 | No | Yes | 2.00 |
| 400 | 26.60 | 18.04 | 3.14 | 5.67 | 1.00 | 10.74 | 11.37 | 122.14 | 4.000 | No | Yes | 2.00 |
| 401 | 26.70 | 18.79 | 3.12 | 5.69 | 1.00 | 11.18 | 11.11 | 124.24 | 4.000 | No | Yes | 2.00 |
| 402 | 26.78 | 19.09 | 3.12 | 5.78 | 1.00 | 11.34 | 11.11 | 125.96 | 4.000 | No | Yes | 2.00 |
| 403 | 26.87 | 19.16 | 3.10 | 5.28 | 1.00 | 11.34 | 10.61 | 120.33 | 4.000 | No | Yes | 2.00 |
| 404 | 26.94 | 19.06 | 3.05 | 4.41 | 1.00 | 11.25 | 9.74 | 109.55 | 4.000 | No | Yes | 2.00 |
| 405 | 27.03 | 18.62 | 3.03 | 3.81 | 1.00 | 10.92 | 9.23 | 100.80 | 4.000 | No | Yes | 2.00 |
| 406 | 27.13 | 17.84 | 3.05 | 3.86 | 1.00 | 10.38 | 9.61 | 99.83 | 4.000 | No | Yes | 2.00 |
| 407 | 27.18 | 15.89 | 3.14 | 4.63 | 1.00 | 9.12 | 11.41 | 104.10 | 4.000 | No | Yes | 2.00 |
| 408 | 27.27 | 14.61 | 3.20 | 5.14 | 1.00 | 8.27 | 12.75 | 105.48 | 4.000 | No | Yes | 2.00 |
| 409 | 27.32 | 14.00 | 3.23 | 5.49 | 1.00 | 7.87 | 13.55 | 106.67 | 4.000 | No | Yes | 2.00 |
| 410 | 27.37 | 14.68 | 3.21 | 5.36 | 1.00 | 8.28 | 12.99 | 107.59 | 4.000 | No | Yes | 2.00 |
| 411 | 27.41 | 15.01 | 3.20 | 5.40 | 1.00 | 8.48 | 12.84 | 108.89 | 4.000 | No | Yes | 2.00 |
| 412 | 27.46 | 15.01 | 3.21 | 5.56 | 1.00 | 8.47 | 13.04 | 110.36 | 4.000 | No | Yes | 2.00 |
| 413 | 27.51 | 15.19 | 3.22 | 5.71 | 1.00 | 8.56 | 13.12 | 112.25 | 4.000 | No | Yes | 2.00 |
| 414 | 27.61 | 15.69 | 3.21 | 5.85 | 1.00 | 8.84 | 13.00 | 114.96 | 4.000 | No | Yes | 2.00 |
| 415 | 27.66 | 16.81 | 3.20 | 6.07 | 1.00 | 9.52 | 12.66 | 120.53 | 4.000 | No | Yes | 2.00 |
| 416 | 27.73 | 19.30 | 3.15 | 6.09 | 1.00 | 11.05 | 11.59 | 128.02 | 4.000 | No | Yes | 2.00 |
| 417 | 27.80 | 22.77 | 3.09 | 6.16 | 1.00 | 13.18 | 10.46 | 137.91 | 4.000 | No | Yes | 2.00 |
| 418 | 27.88 | 26.51 | 3.05 | 6.33 | 1.00 | 15.46 | 9.62 | 148.75 | 4.000 | No | Yes | 2.00 |
| 419 | 27.96 | 28.73 | 3.04 | 6.73 | 1.00 | 16.78 | 9.46 | 158.82 | 4.000 | No | Yes | 2.00 |
| 420 | 28.04 | 29.44 | 3.06 | 7.42 | 1.00 | 17.16 | 9.86 | 169.19 | 4.000 | No | Yes | 2.00 |
| 421 | 28.12 | 29.30 | 3.09 | 8.01 | 1.00 | 17.02 | 10.34 | 175.99 | 4.000 | No | Yes | 2.00 |
| 422 | 28.18 | 29.78 | 3.09 | 8.32 | 1.00 | 17.27 | 10.47 | 180.83 | 4.000 | No | Yes | 2.00 |
| 423 | 28.27 | 30.99 | 3.07 | 8.13 | 1.00 | 17.95 | 10.11 | 181.45 | 4.000 | No | Yes | 2.00 |
| 424 | 28.32 | 32.84 | 3.04 | 7.81 | 1.00 | 19.04 | 9.54 | 181.70 | 4.000 | No | Yes | 2.00 |
| 425 | 28.42 | 34.90 | 3.01 | 7.49 | 1.00 | 20.22 | 8.98 | 181.66 | 4.000 | No | Yes | 2.00 |
| 426 | 28.47 | 37.02 | 2.99 | 7.35 | 1.00 | 21.47 | 8.57 | 183.98 | 4.000 | No | Yes | 2.00 |
| 427 | 28.61 | 38.87 | 2.97 | 7.32 | 1.00 | 22.47 | 8.32 | 186.93 | 4.000 | No | Yes | 2.00 |
| 428 | 28.67 | 40.79 | 2.96 | 7.36 | 1.00 | 23.57 | 8.10 | 190.99 | 4.000 | Yes | Yes | 2.00 |
| 429 | 28.75 | 43.62 | 2.91 | 7.10 | 0.88 | 26.58 | 7.37 | 195.90 | 4.000 | Yes | Yes | 2.00 |
| 430 | 28.81 | 49.52 | 2.83 | 6.35 | 0.86 | 30.58 | 6.28 | 192.19 | 4.000 | Yes | Yes | 2.00 |
| 431 | 28.90 | 59.16 | 2.72 | 5.28 | 0.82 | 37.21 | 4.89 | 181.92 | 4.000 | Yes | Yes | 2.00 |
| 432 | 29.00 | 70.68 | 2.60 | 4.38 | 0.79 | 45.27 | 3.75 | 169.71 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 433 | 29.05 | 82.68 | 2.50 | 3.72 | 0.76 | 53.82 | 2.95 | 158.84 | 4.000 | Yes | No | 2.00 |
| 434 | 29.10 | 92.58 | 2.42 | 3.28 | 0.73 | 60.99 | 2.48 | 151.03 | 4.000 | Yes | No | 2.00 |
| 435 | 29.15 | 101.07 | 2.35 | 2.88 | 0.71 | 67.24 | 2.13 | 143.11 | 4.000 | Yes | No | 2.00 |
| 436 | 29.24 | 105.88 | 2.30 | 2.58 | 0.70 | 70.82 | 1.92 | 136.02 | 4.000 | Yes | No | 2.00 |
| 437 | 29.29 | 107.45 | 2.26 | 2.31 | 0.69 | 72.19 | 1.78 | 128.66 | 4.000 | Yes | No | 2.00 |
| 438 | 29.37 | 106.66 | 2.23 | 2.12 | 0.68 | 71.76 | 1.71 | 122.57 | 4.000 | Yes | No | 2.00 |
| 439 | 29.43 | 105.44 | 2.21 | 1.94 | 0.67 | 71.05 | 1.64 | 116.77 | 4.000 | Yes | No | 2.00 |
| 440 | 29.53 | 104.90 | 2.19 | 1.79 | 0.66 | 70.72 | 1.59 | 112.38 | 4.000 | No | No | 2.00 |
| 441 | 29.62 | 104.73 | 2.17 | 1.69 | 0.66 | 70.61 | 1.55 | 109.62 | 4.000 | No | No | 2.00 |
| 442 | 29.68 | 104.75 | 2.15 | 1.58 | 0.65 | 70.73 | 1.51 | 106.89 | 4.000 | No | No | 2.00 |
| 443 | 29.80 | 104.42 | 2.15 | 1.54 | 0.65 | 70.36 | 1.50 | 105.63 | 4.000 | No | No | 2.00 |
| 444 | 29.91 | 103.80 | 2.15 | 1.52 | 0.65 | 69.74 | 1.50 | 104.61 | 4.000 | No | No | 2.00 |
| 445 | 30.00 | 99.10 | 2.19 | 1.66 | 0.66 | 65.97 | 1.59 | 104.86 | 0.187 | No | No | 1.03 |
| 446 | 30.07 | 97.42 | 2.21 | 1.72 | 0.67 | 64.55 | 1.63 | 105.36 | 0.189 | No | No | 1.04 |
| 447 | 30.15 | 96.27 | 2.22 | 1.75 | 0.67 | 63.56 | 1.66 | 105.54 | 0.189 | No | No | 1.04 |
| 448 | 30.21 | 99.04 | 2.20 | 1.70 | 0.67 | 65.49 | 1.62 | 105.77 | 0.190 | No | No | 1.04 |
| 449 | 30.26 | 98.71 | 2.20 | 1.71 | 0.67 | 65.16 | 1.62 | 105.66 | 0.190 | No | No | 1.04 |
| 450 | 30.31 | 97.50 | 2.21 | 1.73 | 0.67 | 64.21 | 1.64 | 105.39 | 0.189 | No | No | 1.03 |
| 451 | 30.38 | 95.52 | 2.22 | 1.75 | 0.67 | 62.65 | 1.67 | 104.86 | 0.187 | No | No | 1.02 |
| 452 | 30.45 | 92.62 | 2.24 | 1.79 | 0.68 | 60.44 | 1.72 | 104.23 | 0.185 | No | No | 1.01 |
| 453 | 30.50 | 89.12 | 2.26 | 1.84 | 0.69 | 57.84 | 1.79 | 103.72 | 0.184 | No | No | 1.00 |
| 454 | 30.55 | 84.94 | 2.29 | 1.88 | 0.69 | 54.79 | 1.88 | 102.88 | 0.181 | No | No | 0.99 |
| 455 | 30.64 | 81.19 | 2.31 | 1.91 | 0.70 | 52.03 | 1.96 | 101.83 | 0.178 | No | No | 0.97 |
| 456 | 30.70 | 77.93 | 2.32 | 1.91 | 0.70 | 49.71 | 2.01 | 100.16 | 0.173 | No | No | 0.94 |
| 457 | 30.79 | 76.04 | 2.33 | 1.90 | 0.71 | 48.30 | 2.05 | 98.96 | 0.170 | No | No | 0.93 |
| 458 | 30.84 | 75.47 | 2.33 | 1.88 | 0.71 | 47.86 | 2.05 | 98.19 | 0.168 | No | No | 0.91 |
| 459 | 30.93 | 76.95 | 2.32 | 1.86 | 0.70 | 48.79 | 2.01 | 98.05 | 0.168 | No | No | 0.91 |
| 460 | 30.98 | 80.15 | 2.30 | 1.81 | 0.70 | 50.98 | 1.93 | 98.14 | 0.168 | No | No | 0.91 |
| 461 | 31.05 | 85.34 | 2.27 | 1.76 | 0.69 | 54.54 | 1.81 | 98.98 | 0.170 | No | No | 0.92 |
| 462 | 31.13 | 91.57 | 2.24 | 1.70 | 0.68 | 58.82 | 1.71 | 100.51 | 0.174 | No | No | 0.94 |
| 463 | 31.17 | 100.46 | 2.19 | 1.61 | 0.66 | 65.08 | 1.58 | 102.97 | 0.182 | No | No | 0.98 |
| 464 | 31.27 | 110.94 | 2.13 | 1.49 | 0.65 | 72.52 | 1.47 | 106.25 | 0.192 | No | No | 1.03 |
| 465 | 31.32 | 123.23 | 2.06 | 1.34 | 0.63 | 81.52 | 1.37 | 111.37 | 0.208 | No | No | 1.13 |
| 466 | 31.41 | 133.45 | 2.00 | 1.21 | 0.61 | 89.03 | 1.31 | 116.56 | 0.227 | No | No | 1.23 |
| 467 | 31.46 | 140.90 | 1.96 | 1.11 | 0.60 | 94.67 | 1.28 | 120.72 | 0.244 | No | No | 1.31 |
| 468 | 31.52 | 144.37 | 1.93 | 1.03 | 0.59 | 97.40 | 1.26 | 122.24 | 0.250 | No | No | 1.35 |
| 469 | 31.61 | 145.01 | 1.91 | 0.97 | 0.58 | 97.95 | 1.24 | 121.83 | 0.248 | No | No | 1.33 |
| 470 | 31.66 | 142.15 | 1.91 | 0.95 | 0.58 | 95.90 | 1.24 | 119.20 | 0.238 | No | No | 1.28 |
| 471 | 31.75 | 136.69 | 1.93 | 0.97 | 0.59 | 91.66 | 1.26 | 115.29 | 0.223 | No | No | 1.19 |
| 472 | 31.80 | 129.14 | 1.98 | 1.06 | 0.60 | 85.76 | 1.29 | 110.68 | 0.206 | No | No | 1.11 |
| 473 | 31.90 | 122.00 | 2.02 | 1.16 | 0.62 | 80.16 | 1.33 | 106.52 | 0.192 | No | No | 1.03 |
| 474 | 31.94 | 116.84 | 2.06 | 1.24 | 0.63 | 76.18 | 1.37 | 104.07 | 0.185 | No | No | 0.99 |
| 475 | 32.04 | 116.03 | 2.07 | 1.27 | 0.63 | 75.33 | 1.38 | 104.00 | 0.185 | No | No | 0.99 |
| 476 | 32.09 | 119.17 | 2.08 | 1.34 | 0.63 | 77.25 | 1.39 | 107.23 | 0.195 | No | No | 1.04 |
| 477 | 32.20 | 118.70 | 2.11 | 1.46 | 0.64 | 76.38 | 1.43 | 109.06 | 0.201 | No | No | 1.07 |
| 478 | 32.24 | 117.72 | 2.13 | 1.56 | 0.65 | 75.37 | 1.47 | 110.44 | 0.205 | No | No | 1.09 |
| 479 | 32.28 | 114.69 | 2.15 | 1.64 | 0.65 | 73.02 | 1.51 | 110.26 | 0.205 | No | No | 1.09 |
| 480 | 32.29 | 116.70 | 2.14 | 1.62 | 0.65 | 74.43 | 1.49 | 111.09 | 0.207 | No | No | 1.11 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 481 | 32.30 | 118.93 | 2.13 | 1.60 | 0.65 | 75.98 | 1.47 | 112.06 | 0.211 | No | No | 1.12 |
| 482 | 32.40 | 120.51 | 2.13 | 1.59 | 0.65 | 76.91 | 1.47 | 112.71 | 0.213 | No | No | 1.13 |
| 483 | 32.45 | 120.48 | 2.13 | 1.61 | 0.65 | 76.77 | 1.47 | 112.95 | 0.214 | No | No | 1.14 |
| 484 | 32.55 | 119.13 | 2.14 | 1.63 | 0.65 | 75.61 | 1.49 | 112.51 | 0.212 | No | No | 1.13 |
| 485 | 32.59 | 118.33 | 2.15 | 1.66 | 0.65 | 74.91 | 1.50 | 112.50 | 0.212 | No | No | 1.13 |
| 486 | 32.69 | 118.13 | 2.15 | 1.68 | 0.65 | 74.54 | 1.51 | 112.79 | 0.213 | No | No | 1.13 |
| 487 | 32.76 | 118.09 | 2.16 | 1.72 | 0.66 | 74.31 | 1.53 | 113.51 | 0.216 | No | No | 1.14 |
| 488 | 32.84 | 118.40 | 2.17 | 1.75 | 0.66 | 74.31 | 1.54 | 114.35 | 0.219 | No | No | 1.16 |
| 489 | 32.90 | 119.00 | 2.17 | 1.77 | 0.66 | 74.55 | 1.55 | 115.19 | 0.222 | No | No | 1.17 |
| 490 | 32.98 | 119.95 | 2.17 | 1.78 | 0.66 | 75.02 | 1.54 | 115.83 | 0.225 | No | No | 1.19 |
| 491 | 33.06 | 121.02 | 2.17 | 1.78 | 0.66 | 75.61 | 1.54 | 116.33 | 0.226 | No | No | 1.19 |
| 492 | 33.12 | 122.10 | 2.16 | 1.78 | 0.66 | 76.23 | 1.53 | 116.77 | 0.228 | No | No | 1.20 |
| 493 | 33.22 | 122.84 | 2.16 | 1.78 | 0.66 | 76.56 | 1.53 | 117.03 | 0.229 | No | No | 1.21 |
| 494 | 33.31 | 123.21 | 2.16 | 1.78 | 0.66 | 76.64 | 1.53 | 117.14 | 0.229 | No | No | 1.21 |
| 495 | 33.37 | 123.28 | 2.16 | 1.78 | 0.66 | 76.59 | 1.53 | 117.11 | 0.229 | No | No | 1.21 |
| 496 | 33.46 | 123.28 | 2.16 | 1.78 | 0.66 | 76.41 | 1.53 | 117.00 | 0.229 | No | No | 1.20 |
| 497 | 33.55 | 123.18 | 2.17 | 1.79 | 0.66 | 76.17 | 1.54 | 117.00 | 0.229 | No | No | 1.20 |
| 498 | 33.65 | 122.98 | 2.17 | 1.80 | 0.66 | 75.83 | 1.54 | 117.07 | 0.229 | No | No | 1.20 |
| 499 | 33.70 | 122.57 | 2.17 | 1.82 | 0.66 | 75.42 | 1.55 | 117.18 | 0.230 | No | No | 1.20 |
| 500 | 33.79 | 122.03 | 2.18 | 1.84 | 0.66 | 74.86 | 1.56 | 117.10 | 0.229 | No | No | 1.20 |
| 501 | 33.89 | 121.09 | 2.18 | 1.85 | 0.66 | 74.04 | 1.58 | 116.76 | 0.228 | No | No | 1.19 |
| 502 | 33.99 | 119.77 | 2.19 | 1.86 | 0.67 | 72.98 | 1.59 | 116.20 | 0.226 | No | No | 1.18 |
| 503 | 34.04 | 117.79 | 2.20 | 1.88 | 0.67 | 71.55 | 1.61 | 115.43 | 0.223 | No | No | 1.16 |
| 504 | 34.13 | 115.49 | 2.21 | 1.89 | 0.67 | 69.85 | 1.64 | 114.59 | 0.220 | No | No | 1.15 |
| 505 | 34.23 | 112.70 | 2.22 | 1.92 | 0.68 | 67.80 | 1.68 | 113.76 | 0.217 | No | No | 1.13 |
| 506 | 34.32 | 110.27 | 2.24 | 1.95 | 0.68 | 66.01 | 1.71 | 113.20 | 0.215 | No | No | 1.12 |
| 507 | 34.37 | 108.22 | 2.25 | 1.98 | 0.68 | 64.55 | 1.75 | 112.84 | 0.214 | No | No | 1.11 |
| 508 | 34.47 | 106.60 | 2.26 | 2.00 | 0.69 | 63.31 | 1.78 | 112.69 | 0.213 | No | No | 1.11 |
| 509 | 34.55 | 103.47 | 2.28 | 2.07 | 0.69 | 61.05 | 1.85 | 112.96 | 4.000 | Yes | No | 2.00 |
| 510 | 34.63 | 96.66 | 2.33 | 2.24 | 0.71 | 56.31 | 2.04 | 114.64 | 4.000 | Yes | No | 2.00 |
| 511 | 34.73 | 86.37 | 2.40 | 2.51 | 0.73 | 49.33 | 2.40 | 118.21 | 4.000 | Yes | No | 2.00 |
| 512 | 34.80 | 72.76 | 2.51 | 2.91 | 0.76 | 40.42 | 3.06 | 123.59 | 4.000 | Yes | No | 2.00 |
| 513 | 34.90 | 60.46 | 2.62 | 3.30 | 0.79 | 32.62 | 3.90 | 127.28 | 4.000 | Yes | Yes | 2.00 |
| 514 | 35.00 | 54.92 | 2.64 | 3.21 | 0.80 | 29.29 | 4.16 | 121.79 | 3.600 | No | Yes | 2.00 |
| 515 | 35.12 | 50.37 | 2.67 | 3.15 | 0.81 | 26.54 | 4.42 | 117.31 | 3.600 | No | Yes | 2.00 |
| 516 | 35.20 | 52.86 | 2.63 | 2.87 | 0.80 | 28.11 | 3.99 | 112.19 | 3.600 | No | Yes | 2.00 |
| 517 | 35.33 | 53.65 | 2.63 | 2.95 | 0.80 | 28.43 | 4.02 | 114.42 | 4.000 | Yes | Yes | 2.00 |
| 518 | 35.41 | 63.41 | 2.53 | 2.60 | 0.77 | 34.44 | 3.20 | 110.34 | 4.000 | Yes | No | 2.00 |
| 519 | 35.44 | 68.58 | 2.48 | 2.43 | 0.75 | 37.68 | 2.87 | 108.02 | 4.000 | Yes | No | 2.00 |
| 520 | 35.48 | 76.82 | 2.41 | 2.17 | 0.73 | 42.96 | 2.42 | 103.82 | 4.000 | Yes | No | 2.00 |
| 521 | 35.57 | 84.09 | 2.35 | 1.98 | 0.71 | 47.63 | 2.12 | 101.05 | 4.000 | Yes | No | 2.00 |
| 522 | 35.62 | 98.70 | 2.24 | 1.69 | 0.68 | 57.30 | 1.73 | 98.99 | 4.000 | Yes | No | 2.00 |
| 523 | 35.67 | 115.40 | 2.14 | 1.46 | 0.65 | 68.51 | 1.49 | 102.07 | 4.000 | Yes | No | 2.00 |
| 524 | 35.71 | 137.52 | 2.04 | 1.30 | 0.62 | 83.52 | 1.35 | 112.52 | 4.000 | Yes | No | 2.00 |
| 525 | 35.82 | 159.89 | 1.96 | 1.19 | 0.60 | 98.71 | 1.28 | 126.36 | 4.000 | Yes | No | 2.00 |
| 526 | 35.86 | 185.11 | 1.89 | 1.12 | 0.58 | 116.11 | 1.23 | 143.07 | 4.000 | Yes | No | 2.00 |
| 527 | 35.93 | 207.72 | 1.84 | 1.06 | 0.56 | 131.80 | 1.19 | 156.85 | 4.000 | Yes | No | 2.00 |
| 528 | 36.01 | 225.38 | 1.80 | 1.04 | 0.55 | 144.00 | 1.16 | 166.33 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 529 | 36.06 | 235.57 | 1.79 | 1.04 | 0.54 | 150.92 | 1.14 | 171.69 | 4.000 | Yes | No | 2.00 |
| 530 | 36.12 | 240.67 | 1.78 | 1.05 | 0.54 | 154.12 | 1.13 | 174.89 | 0.578 | No | No | 2.00 |
| 531 | 36.18 | 245.05 | 1.79 | 1.08 | 0.54 | 156.73 | 1.14 | 178.20 | 0.606 | No | No | 2.00 |
| 532 | 36.25 | 248.69 | 1.79 | 1.10 | 0.54 | 158.84 | 1.14 | 180.98 | 0.631 | No | No | 2.00 |
| 533 | 36.30 | 251.52 | 1.80 | 1.14 | 0.55 | 160.26 | 1.15 | 184.12 | 0.661 | No | No | 2.00 |
| 534 | 36.39 | 252.83 | 1.81 | 1.17 | 0.55 | 160.54 | 1.16 | 185.99 | 0.678 | No | No | 2.00 |
| 535 | 36.44 | 253.07 | 1.82 | 1.21 | 0.55 | 160.15 | 1.17 | 187.57 | 0.694 | No | No | 2.00 |
| 536 | 36.53 | 251.49 | 1.83 | 1.25 | 0.56 | 158.45 | 1.18 | 187.51 | 0.693 | No | No | 2.00 |
| 537 | 36.59 | 248.39 | 1.86 | 1.34 | 0.57 | 155.45 | 1.21 | 187.43 | 0.692 | No | No | 2.00 |
| 538 | 36.68 | 243.47 | 1.87 | 1.37 | 0.57 | 151.62 | 1.22 | 184.49 | 0.664 | No | No | 2.00 |
| 539 | 36.75 | 238.34 | 1.88 | 1.38 | 0.57 | 147.93 | 1.22 | 180.99 | 0.631 | No | No | 2.00 |
| 540 | 36.83 | 232.04 | 1.88 | 1.34 | 0.57 | 143.78 | 1.22 | 175.91 | 0.586 | No | No | 2.00 |
| 541 | 36.90 | 225.27 | 1.89 | 1.35 | 0.58 | 138.95 | 1.23 | 171.34 | 0.548 | No | No | 2.00 |
| 542 | 36.97 | 217.18 | 1.92 | 1.39 | 0.58 | 133.11 | 1.25 | 166.05 | 0.506 | No | No | 2.00 |
| 543 | 37.02 | 201.72 | 1.96 | 1.49 | 0.60 | 122.19 | 1.28 | 156.23 | 0.435 | No | No | 2.00 |
| 544 | 37.04 | 193.70 | 1.99 | 1.53 | 0.60 | 116.64 | 1.30 | 151.13 | 0.401 | No | No | 2.00 |
| 545 | 37.08 | 188.61 | 2.00 | 1.54 | 0.61 | 113.19 | 1.30 | 147.61 | 0.379 | No | No | 1.93 |
| 546 | 37.17 | 191.78 | 1.97 | 1.46 | 0.60 | 115.46 | 1.29 | 148.65 | 0.385 | No | No | 1.96 |
| 547 | 37.27 | 187.30 | 1.98 | 1.44 | 0.60 | 112.45 | 1.29 | 145.04 | 0.364 | No | No | 1.85 |
| 548 | 37.37 | 181.37 | 1.99 | 1.43 | 0.60 | 108.42 | 1.30 | 140.68 | 0.339 | No | No | 1.72 |
| 549 | 37.42 | 177.21 | 1.99 | 1.39 | 0.60 | 105.83 | 1.30 | 137.22 | 0.320 | No | No | 1.62 |
| 550 | 37.51 | 175.89 | 1.97 | 1.32 | 0.60 | 105.19 | 1.29 | 135.25 | 0.310 | No | No | 1.57 |
| 551 | 37.58 | 176.97 | 1.95 | 1.22 | 0.59 | 106.34 | 1.27 | 134.76 | 0.308 | No | No | 1.56 |
| 552 | 37.66 | 179.01 | 1.92 | 1.13 | 0.58 | 108.07 | 1.25 | 135.08 | 0.309 | No | No | 1.57 |
| 553 | 37.76 | 182.58 | 1.89 | 1.05 | 0.57 | 110.83 | 1.23 | 136.26 | 0.315 | No | No | 1.59 |
| 554 | 37.85 | 186.08 | 1.86 | 0.97 | 0.57 | 113.57 | 1.21 | 137.18 | 0.320 | No | No | 1.62 |
| 555 | 37.93 | 189.62 | 1.84 | 0.92 | 0.56 | 116.22 | 1.19 | 138.14 | 0.325 | No | No | 1.64 |
| 556 | 38.04 | 192.25 | 1.82 | 0.89 | 0.55 | 117.99 | 1.18 | 138.80 | 0.329 | No | No | 1.66 |
| 557 | 38.13 | 193.87 | 1.82 | 0.88 | 0.55 | 118.97 | 1.17 | 139.30 | 0.331 | No | No | 1.67 |
| 558 | 38.18 | 193.57 | 1.82 | 0.88 | 0.55 | 118.63 | 1.17 | 139.16 | 0.331 | No | No | 1.67 |
| 559 | 38.28 | 191.24 | 1.84 | 0.92 | 0.56 | 116.58 | 1.19 | 138.51 | 0.327 | No | No | 1.65 |
| 560 | 38.37 | 187.40 | 1.86 | 0.97 | 0.57 | 113.37 | 1.21 | 137.08 | 0.320 | No | No | 1.61 |
| 561 | 38.47 | 183.55 | 1.89 | 1.06 | 0.58 | 109.99 | 1.23 | 135.63 | 0.312 | No | No | 1.57 |
| 562 | 38.57 | 180.39 | 1.92 | 1.13 | 0.58 | 107.19 | 1.25 | 134.14 | 0.304 | No | No | 1.53 |
| 563 | 38.62 | 176.78 | 1.95 | 1.21 | 0.59 | 104.23 | 1.27 | 132.48 | 0.296 | No | No | 1.49 |
| 564 | 38.72 | 167.48 | 2.00 | 1.33 | 0.61 | 97.43 | 1.31 | 127.27 | 0.272 | No | No | 1.37 |
| 565 | 38.78 | 160.21 | 2.04 | 1.42 | 0.62 | 92.19 | 1.34 | 123.72 | 0.256 | No | No | 1.29 |
| 566 | 38.81 | 155.32 | 2.06 | 1.49 | 0.63 | 88.77 | 1.37 | 121.63 | 0.247 | No | No | 1.24 |
| 567 | 38.86 | 155.19 | 2.07 | 1.50 | 0.63 | 88.54 | 1.37 | 121.68 | 0.248 | No | No | 1.24 |
| 568 | 38.91 | 152.02 | 2.08 | 1.55 | 0.63 | 86.27 | 1.40 | 120.51 | 0.243 | No | No | 1.22 |
| 569 | 38.95 | 145.92 | 2.12 | 1.64 | 0.64 | 82.06 | 1.44 | 118.55 | 0.235 | No | No | 1.18 |
| 570 | 39.05 | 139.55 | 2.15 | 1.74 | 0.65 | 77.66 | 1.51 | 116.91 | 0.229 | No | No | 1.15 |
| 571 | 39.09 | 132.37 | 2.19 | 1.84 | 0.66 | 72.88 | 1.59 | 115.64 | 0.224 | No | No | 1.12 |
| 572 | 39.14 | 125.06 | 2.23 | 1.95 | 0.68 | 68.10 | 1.69 | 114.83 | 0.221 | No | No | 1.11 |
| 573 | 39.24 | 118.19 | 2.26 | 2.05 | 0.69 | 63.61 | 1.80 | 114.32 | 0.219 | No | No | 1.10 |
| 574 | 39.29 | 112.16 | 2.30 | 2.14 | 0.70 | 59.80 | 1.91 | 114.03 | 0.218 | No | No | 1.09 |
| 575 | 39.39 | 108.48 | 2.32 | 2.20 | 0.70 | 57.39 | 1.99 | 114.16 | 0.218 | No | No | 1.10 |
| 576 | 39.43 | 109.15 | 2.31 | 2.19 | 0.70 | 57.74 | 1.98 | 114.28 | 0.219 | No | No | 1.10 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 577 | 39.53 | 115.02 | 2.28 | 2.10 | 0.69 | 61.25 | 1.86 | 113.89 | 0.217 | No | No | 1.09 |
| 578 | 39.57 | 124.17 | 2.23 | 1.94 | 0.68 | 67.01 | 1.69 | 113.55 | 0.216 | No | No | 1.08 |
| 579 | 39.68 | 130.64 | 2.19 | 1.83 | 0.67 | 71.04 | 1.60 | 113.69 | 0.217 | No | No | 1.09 |
| 580 | 39.73 | 131.95 | 2.19 | 1.80 | 0.66 | 71.83 | 1.58 | 113.53 | 0.216 | No | No | 1.08 |
| 581 | 39.81 | 129.33 | 2.20 | 1.81 | 0.67 | 70.10 | 1.60 | 112.48 | 0.212 | No | No | 1.06 |
| 582 | 39.89 | 126.37 | 2.19 | 1.75 | 0.67 | 68.39 | 1.60 | 109.51 | 0.202 | No | No | 1.01 |
| 583 | 39.96 | 125.26 | 2.18 | 1.63 | 0.66 | 68.01 | 1.56 | 105.89 | 0.190 | No | No | 0.95 |
| 584 | 40.06 | 124.52 | 2.16 | 1.53 | 0.66 | 67.75 | 1.52 | 103.14 | 0.182 | No | No | 0.91 |
| 585 | 40.15 | 122.70 | 2.17 | 1.55 | 0.66 | 66.50 | 1.54 | 102.38 | 0.180 | No | No | 0.90 |
| 586 | 40.20 | 114.41 | 2.22 | 1.70 | 0.67 | 61.03 | 1.67 | 102.07 | 0.179 | No | No | 0.89 |
| 587 | 40.24 | 108.56 | 2.26 | 1.81 | 0.69 | 57.23 | 1.79 | 102.62 | 0.181 | No | No | 0.90 |
| 588 | 40.26 | 104.17 | 2.29 | 1.90 | 0.70 | 54.45 | 1.90 | 103.22 | 0.182 | No | No | 0.91 |
| 589 | 40.27 | 107.91 | 2.27 | 1.85 | 0.69 | 56.72 | 1.82 | 103.36 | 0.183 | No | No | 0.91 |
| 590 | 40.37 | 109.77 | 2.26 | 1.84 | 0.69 | 57.73 | 1.80 | 103.81 | 0.184 | No | No | 0.92 |
| 591 | 40.42 | 111.64 | 2.26 | 1.85 | 0.69 | 58.75 | 1.78 | 104.71 | 0.187 | No | No | 0.93 |
| 592 | 40.52 | 112.38 | 2.26 | 1.87 | 0.69 | 59.02 | 1.79 | 105.44 | 0.189 | No | No | 0.94 |
| 593 | 40.56 | 115.27 | 2.25 | 1.87 | 0.68 | 60.66 | 1.76 | 106.63 | 0.193 | No | No | 0.96 |
| 594 | 40.66 | 122.24 | 2.22 | 1.81 | 0.67 | 64.78 | 1.67 | 108.06 | 0.197 | No | No | 0.99 |
| 595 | 40.70 | 131.54 | 2.18 | 1.74 | 0.66 | 70.42 | 1.57 | 110.67 | 0.206 | No | No | 1.03 |
| 596 | 40.75 | 142.59 | 2.14 | 1.67 | 0.65 | 77.15 | 1.49 | 114.79 | 0.221 | No | No | 1.10 |
| 597 | 40.85 | 153.40 | 2.11 | 1.63 | 0.64 | 83.66 | 1.43 | 119.75 | 0.240 | No | No | 1.20 |
| 598 | 40.91 | 164.05 | 2.08 | 1.59 | 0.63 | 90.16 | 1.39 | 125.10 | 0.262 | No | No | 1.31 |
| 599 | 40.96 | 174.69 | 2.04 | 1.53 | 0.62 | 96.83 | 1.35 | 130.56 | 0.287 | No | No | 1.43 |
| 600 | 41.04 | 184.27 | 2.01 | 1.47 | 0.61 | 102.87 | 1.32 | 135.59 | 0.312 | No | No | 1.55 |
| 601 | 41.09 | 193.94 | 1.98 | 1.41 | 0.60 | 109.10 | 1.29 | 141.03 | 0.341 | No | No | 1.70 |
| 602 | 41.18 | 201.90 | 1.96 | 1.36 | 0.60 | 114.17 | 1.28 | 145.57 | 0.367 | No | No | 1.83 |
| 603 | 41.23 | 207.97 | 1.94 | 1.33 | 0.59 | 118.08 | 1.26 | 149.12 | 0.388 | No | No | 1.94 |
| 604 | 41.29 | 211.58 | 1.93 | 1.31 | 0.59 | 120.37 | 1.26 | 151.17 | 0.401 | No | No | 2.00 |
| 605 | 41.38 | 212.76 | 1.93 | 1.30 | 0.59 | 120.98 | 1.25 | 151.67 | 0.404 | No | No | 2.00 |
| 606 | 41.42 | 212.09 | 1.93 | 1.31 | 0.59 | 120.40 | 1.26 | 151.21 | 0.402 | No | No | 2.00 |
| 607 | 41.52 | 210.03 | 1.94 | 1.33 | 0.59 | 118.76 | 1.26 | 149.86 | 0.393 | No | No | 1.96 |
| 608 | 41.57 | 207.27 | 1.95 | 1.36 | 0.59 | 116.72 | 1.27 | 148.26 | 0.383 | No | No | 1.91 |
| 609 | 41.62 | 204.91 | 1.96 | 1.40 | 0.60 | 114.93 | 1.28 | 146.93 | 0.375 | No | No | 1.87 |
| 610 | 41.71 | 203.13 | 1.97 | 1.43 | 0.60 | 113.45 | 1.29 | 145.89 | 0.369 | No | No | 1.84 |
| 611 | 41.76 | 202.15 | 1.98 | 1.45 | 0.60 | 112.60 | 1.29 | 145.43 | 0.366 | No | No | 1.82 |
| 612 | 41.84 | 201.65 | 1.99 | 1.47 | 0.60 | 111.98 | 1.30 | 145.17 | 0.364 | No | No | 1.81 |
| 613 | 41.91 | 201.54 | 1.99 | 1.50 | 0.61 | 111.64 | 1.30 | 145.22 | 0.365 | No | No | 1.81 |
| 614 | 41.95 | 201.75 | 2.00 | 1.52 | 0.61 | 111.52 | 1.31 | 145.53 | 0.367 | No | No | 1.82 |
| 615 | 42.01 | 202.52 | 2.00 | 1.56 | 0.61 | 111.63 | 1.31 | 146.36 | 0.372 | No | No | 1.85 |
| 616 | 42.10 | 203.57 | 2.01 | 1.60 | 0.61 | 111.82 | 1.32 | 147.40 | 0.378 | No | No | 1.88 |
| 617 | 42.15 | 204.98 | 2.02 | 1.66 | 0.61 | 112.23 | 1.33 | 148.90 | 0.387 | No | No | 1.92 |
| 618 | 42.24 | 206.03 | 2.03 | 1.70 | 0.62 | 112.44 | 1.33 | 149.94 | 0.394 | No | No | 1.96 |
| 619 | 42.28 | 206.46 | 2.03 | 1.71 | 0.62 | 112.53 | 1.34 | 150.31 | 0.396 | No | No | 1.97 |
| 620 | 42.39 | 206.26 | 2.03 | 1.70 | 0.62 | 112.27 | 1.33 | 149.81 | 0.393 | No | No | 1.95 |
| 621 | 42.43 | 206.08 | 2.02 | 1.67 | 0.62 | 112.28 | 1.33 | 149.14 | 0.389 | No | No | 1.93 |
| 622 | 42.50 | 206.11 | 2.01 | 1.62 | 0.61 | 112.45 | 1.32 | 148.36 | 0.384 | No | No | 1.91 |
| 623 | 42.58 | 206.28 | 2.00 | 1.56 | 0.61 | 112.80 | 1.31 | 147.54 | 0.379 | No | No | 1.88 |
| 624 | 42.65 | 198.95 | 2.01 | 1.55 | 0.61 | 108.28 | 1.32 | 142.73 | 0.350 | No | No | 1.74 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 625 | 42.70 | 195.88 | 2.02 | 1.54 | 0.61 | 106.39 | 1.32 | 140.58 | 0.338 | No | No | 1.68 |
| 626 | 42.73 | 193.72 | 2.02 | 1.54 | 0.61 | 105.08 | 1.32 | 139.14 | 0.331 | No | No | 1.64 |
| 627 | 42.77 | 200.19 | 1.99 | 1.47 | 0.61 | 109.31 | 1.30 | 142.31 | 0.348 | No | No | 1.73 |
| 628 | 42.82 | 203.83 | 1.98 | 1.43 | 0.60 | 111.68 | 1.29 | 144.06 | 0.358 | No | No | 1.78 |
| 629 | 42.87 | 209.12 | 1.96 | 1.39 | 0.60 | 115.10 | 1.28 | 146.92 | 0.375 | No | No | 1.86 |
| 630 | 42.91 | 215.46 | 1.94 | 1.35 | 0.59 | 119.14 | 1.26 | 150.57 | 0.397 | No | No | 1.97 |
| 631 | 42.97 | 221.76 | 1.92 | 1.32 | 0.59 | 123.09 | 1.25 | 154.27 | 0.421 | No | No | 2.00 |
| 632 | 43.02 | 226.82 | 1.92 | 1.32 | 0.58 | 126.14 | 1.25 | 157.35 | 0.442 | No | No | 2.00 |
| 633 | 43.06 | 230.49 | 1.91 | 1.33 | 0.58 | 128.19 | 1.25 | 159.72 | 0.459 | No | No | 2.00 |
| 634 | 43.11 | 234.33 | 1.91 | 1.34 | 0.58 | 130.34 | 1.24 | 162.21 | 0.477 | No | No | 2.00 |
| 635 | 43.17 | 237.93 | 1.91 | 1.35 | 0.58 | 132.40 | 1.24 | 164.40 | 0.493 | No | No | 2.00 |
| 636 | 43.21 | 242.21 | 1.90 | 1.33 | 0.58 | 135.09 | 1.23 | 166.83 | 0.512 | No | No | 2.00 |
| 637 | 43.29 | 246.19 | 1.89 | 1.30 | 0.57 | 137.59 | 1.23 | 168.85 | 0.528 | No | No | 2.00 |
| 638 | 43.34 | 250.53 | 1.87 | 1.28 | 0.57 | 140.43 | 1.22 | 171.05 | 0.545 | No | No | 2.00 |
| 639 | 43.39 | 254.11 | 1.86 | 1.25 | 0.57 | 142.76 | 1.21 | 172.71 | 0.559 | No | No | 2.00 |
| 640 | 43.45 | 256.87 | 1.85 | 1.22 | 0.56 | 144.64 | 1.20 | 173.74 | 0.568 | No | No | 2.00 |
| 641 | 43.51 | 258.25 | 1.84 | 1.18 | 0.56 | 145.84 | 1.19 | 173.50 | 0.566 | No | No | 2.00 |
| 642 | 43.59 | 258.59 | 1.82 | 1.14 | 0.56 | 146.35 | 1.18 | 172.47 | 0.557 | No | No | 2.00 |
| 643 | 43.64 | 259.19 | 1.80 | 1.07 | 0.55 | 147.38 | 1.16 | 170.73 | 0.543 | No | No | 2.00 |
| 644 | 43.70 | 259.29 | 1.78 | 1.01 | 0.54 | 148.12 | 1.13 | 168.10 | 0.522 | No | No | 2.00 |
| 645 | 43.78 | 258.35 | 1.77 | 0.96 | 0.54 | 147.98 | 1.12 | 165.08 | 0.498 | No | No | 2.00 |
| 646 | 43.88 | 255.18 | 1.77 | 0.96 | 0.54 | 145.77 | 1.12 | 163.55 | 0.487 | No | No | 2.00 |
| 647 | 43.94 | 244.77 | 1.82 | 1.04 | 0.55 | 138.10 | 1.17 | 161.52 | 0.472 | No | No | 2.00 |
| 648 | 44.04 | 234.93 | 1.86 | 1.12 | 0.57 | 130.84 | 1.21 | 157.74 | 0.445 | No | No | 2.00 |
| 649 | 44.07 | 225.87 | 1.89 | 1.21 | 0.58 | 124.41 | 1.23 | 153.31 | 0.415 | No | No | 2.00 |
| 650 | 44.12 | 223.58 | 1.90 | 1.23 | 0.58 | 122.68 | 1.24 | 152.08 | 0.407 | No | No | 2.00 |
| 651 | 44.16 | 221.15 | 1.91 | 1.25 | 0.58 | 120.94 | 1.25 | 150.70 | 0.398 | No | No | 1.98 |
| 652 | 44.21 | 218.05 | 1.93 | 1.28 | 0.59 | 118.76 | 1.25 | 148.86 | 0.387 | No | No | 1.92 |
| 653 | 44.26 | 214.65 | 1.94 | 1.30 | 0.59 | 116.39 | 1.26 | 146.86 | 0.375 | No | No | 1.86 |
| 654 | 44.31 | 210.81 | 1.95 | 1.34 | 0.59 | 113.73 | 1.27 | 144.63 | 0.361 | No | No | 1.79 |
| 655 | 44.35 | 206.97 | 1.97 | 1.37 | 0.60 | 111.11 | 1.28 | 142.44 | 0.349 | No | No | 1.73 |
| 656 | 44.40 | 203.26 | 1.98 | 1.40 | 0.60 | 108.60 | 1.29 | 140.32 | 0.337 | No | No | 1.67 |
| 657 | 44.45 | 200.16 | 1.99 | 1.43 | 0.61 | 106.49 | 1.30 | 138.56 | 0.327 | No | No | 1.62 |
| 658 | 44.50 | 197.83 | 2.00 | 1.45 | 0.61 | 104.91 | 1.31 | 137.24 | 0.320 | No | No | 1.59 |
| 659 | 44.54 | 195.81 | 2.01 | 1.47 | 0.61 | 103.53 | 1.32 | 136.15 | 0.315 | No | No | 1.56 |
| 660 | 44.60 | 193.46 | 2.02 | 1.49 | 0.61 | 101.86 | 1.32 | 134.97 | 0.309 | No | No | 1.53 |
| 661 | 44.64 | 190.96 | 2.03 | 1.53 | 0.62 | 100.11 | 1.34 | 133.85 | 0.303 | No | No | 1.50 |
| 662 | 44.69 | 188.57 | 2.05 | 1.57 | 0.62 | 98.42 | 1.35 | 132.85 | 0.298 | No | No | 1.48 |
| 663 | 44.74 | 187.78 | 2.05 | 1.59 | 0.62 | 97.76 | 1.36 | 132.59 | 0.297 | No | No | 1.47 |
| 664 | 44.79 | 187.17 | 2.06 | 1.60 | 0.62 | 97.27 | 1.36 | 132.34 | 0.296 | No | No | 1.47 |
| 665 | 44.83 | 187.71 | 2.05 | 1.60 | 0.62 | 97.52 | 1.36 | 132.53 | 0.296 | No | No | 1.47 |
| 666 | 44.88 | 188.84 | 2.05 | 1.59 | 0.62 | 98.15 | 1.35 | 132.96 | 0.299 | No | No | 1.48 |
| 667 | 44.93 | 191.20 | 2.04 | 1.57 | 0.62 | 99.52 | 1.35 | 134.02 | 0.304 | No | No | 1.51 |
| 668 | 44.98 | 193.69 | 2.03 | 1.55 | 0.62 | 100.99 | 1.34 | 135.20 | 0.310 | No | No | 1.54 |
| 669 | 45.03 | 195.31 | 2.03 | 1.54 | 0.62 | 101.90 | 1.33 | 135.95 | 0.314 | No | No | 1.56 |
| 670 | 45.08 | 196.49 | 2.03 | 1.54 | 0.62 | 102.54 | 1.33 | 136.45 | 0.316 | No | No | 1.57 |
| 671 | 45.16 | 197.53 | 2.02 | 1.52 | 0.62 | 103.08 | 1.33 | 136.81 | 0.318 | No | No | 1.58 |
| 672 | 45.19 | 198.24 | 2.02 | 1.50 | 0.61 | 103.58 | 1.32 | 136.91 | 0.319 | No | No | 1.58 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 673 | 45.27 | 198.44 | 2.01 | 1.47 | 0.61 | 103.76 | 1.32 | 136.53 | 0.317 | No | No | 1.57 |
| 674 | 45.32 | 197.56 | 2.00 | 1.44 | 0.61 | 103.38 | 1.31 | 135.53 | 0.312 | No | No | 1.55 |
| 675 | 45.37 | 195.58 | 2.00 | 1.39 | 0.61 | 102.45 | 1.31 | 133.73 | 0.302 | No | No | 1.50 |
| 676 | 45.45 | 192.44 | 1.99 | 1.35 | 0.61 | 100.80 | 1.30 | 131.17 | 0.290 | No | No | 1.44 |
| 677 | 45.51 | 187.22 | 1.99 | 1.31 | 0.61 | 97.91 | 1.30 | 127.52 | 0.273 | No | No | 1.35 |
| 678 | 45.56 | 180.52 | 2.01 | 1.31 | 0.61 | 93.92 | 1.31 | 123.37 | 4.000 | Yes | No | 2.00 |
| 679 | 45.61 | 169.84 | 2.04 | 1.36 | 0.62 | 87.34 | 1.35 | 117.60 | 4.000 | Yes | No | 2.00 |
| 680 | 45.69 | 156.32 | 2.10 | 1.48 | 0.64 | 78.89 | 1.42 | 111.79 | 4.000 | Yes | No | 2.00 |
| 681 | 45.75 | 137.42 | 2.20 | 1.74 | 0.67 | 67.17 | 1.61 | 108.19 | 4.000 | Yes | No | 2.00 |
| 682 | 45.81 | 115.31 | 2.30 | 1.96 | 0.70 | 54.45 | 1.93 | 105.04 | 4.000 | Yes | No | 2.00 |
| 683 | 45.89 | 93.28 | 2.42 | 2.23 | 0.73 | 42.25 | 2.49 | 105.10 | 4.000 | Yes | No | 2.00 |
| 684 | 45.94 | 73.36 | 2.54 | 2.43 | 0.77 | 31.83 | 3.26 | 103.73 | 4.000 | Yes | No | 2.00 |
| 685 | 46.04 | 59.21 | 2.67 | 2.85 | 0.81 | 24.44 | 4.42 | 108.05 | 4.000 | Yes | Yes | 2.00 |
| 686 | 46.08 | 46.61 | 2.83 | 3.46 | 0.86 | 18.15 | 6.18 | 112.07 | 4.000 | Yes | Yes | 2.00 |
| 687 | 46.15 | 39.94 | 2.97 | 3.96 | 1.00 | 13.37 | 8.22 | 109.85 | 4.000 | Yes | Yes | 2.00 |
| 688 | 46.17 | 36.10 | 3.03 | 4.33 | 1.00 | 11.98 | 9.26 | 110.89 | 3.600 | No | Yes | 2.00 |
| 689 | 46.18 | 36.17 | 3.02 | 4.27 | 1.00 | 12.00 | 9.18 | 110.17 | 3.600 | No | Yes | 2.00 |
| 690 | 46.23 | 36.48 | 3.01 | 4.17 | 1.00 | 12.10 | 9.03 | 109.18 | 3.600 | No | Yes | 2.00 |
| 691 | 46.27 | 37.18 | 3.00 | 4.00 | 1.00 | 12.34 | 8.72 | 107.58 | 3.600 | No | Yes | 2.00 |
| 692 | 46.32 | 38.64 | 2.96 | 3.74 | 1.00 | 12.85 | 8.20 | 105.33 | 3.600 | No | Yes | 2.00 |
| 693 | 46.41 | 40.63 | 2.89 | 3.49 | 0.87 | 15.29 | 7.01 | 107.19 | 3.600 | No | Yes | 2.00 |
| 694 | 46.47 | 43.16 | 2.85 | 3.30 | 0.86 | 16.49 | 6.44 | 106.19 | 3.600 | No | Yes | 2.00 |
| 695 | 46.52 | 45.45 | 2.82 | 3.23 | 0.85 | 17.54 | 6.09 | 106.89 | 3.600 | No | Yes | 2.00 |
| 696 | 46.56 | 47.57 | 2.81 | 3.31 | 0.85 | 18.46 | 5.95 | 109.81 | 3.600 | No | Yes | 2.00 |
| 697 | 46.65 | 49.42 | 2.80 | 3.44 | 0.85 | 19.21 | 5.91 | 113.60 | 3.600 | No | Yes | 2.00 |
| 698 | 46.71 | 51.52 | 2.80 | 3.58 | 0.85 | 20.07 | 5.86 | 117.68 | 3.600 | No | Yes | 2.00 |
| 699 | 46.76 | 54.41 | 2.78 | 3.59 | 0.84 | 21.37 | 5.62 | 120.04 | 3.600 | No | Yes | 2.00 |
| 700 | 46.85 | 58.19 | 2.75 | 3.48 | 0.83 | 23.13 | 5.21 | 120.43 | 3.600 | No | Yes | 2.00 |
| 701 | 46.90 | 63.28 | 2.69 | 3.26 | 0.82 | 25.63 | 4.63 | 118.71 | 3.600 | No | Yes | 2.00 |
| 702 | 46.99 | 67.89 | 2.65 | 3.04 | 0.80 | 27.93 | 4.16 | 116.19 | 3.600 | No | Yes | 2.00 |
| 703 | 47.04 | 70.35 | 2.62 | 2.93 | 0.79 | 29.16 | 3.93 | 114.63 | 3.600 | No | Yes | 2.00 |
| 704 | 47.10 | 69.50 | 2.63 | 2.95 | 0.80 | 28.71 | 4.00 | 114.71 | 3.600 | No | Yes | 2.00 |
| 705 | 47.16 | 65.45 | 2.67 | 3.09 | 0.81 | 26.63 | 4.36 | 116.10 | 3.600 | No | Yes | 2.00 |
| 706 | 47.23 | 59.62 | 2.72 | 3.30 | 0.82 | 23.71 | 4.94 | 117.23 | 3.600 | No | Yes | 2.00 |
| 707 | 47.30 | 51.46 | 2.81 | 3.62 | 0.85 | 19.76 | 5.97 | 117.96 | 3.600 | No | Yes | 2.00 |
| 708 | 47.38 | 42.76 | 2.96 | 4.09 | 1.00 | 13.97 | 8.12 | 113.48 | 3.600 | No | Yes | 2.00 |
| 709 | 47.43 | 34.23 | 3.08 | 4.68 | 1.00 | 10.97 | 10.19 | 111.84 | 3.600 | No | Yes | 2.00 |
| 710 | 47.52 | 28.17 | 3.17 | 4.93 | 1.00 | 8.83 | 11.99 | 105.92 | 3.600 | No | Yes | 2.00 |
| 711 | 47.59 | 23.92 | 3.20 | 4.34 | 1.00 | 7.34 | 12.70 | 93.23 | 3.600 | No | Yes | 2.00 |
| 712 | 47.66 | 21.40 | 3.20 | 3.59 | 1.00 | 6.45 | 12.70 | 81.89 | 3.600 | No | Yes | 2.00 |
| 713 | 47.77 | 19.71 | 3.20 | 3.13 | 1.00 | 5.85 | 12.77 | 74.67 | 3.600 | No | Yes | 2.00 |
| 714 | 47.82 | 18.77 | 3.24 | 3.41 | 1.00 | 5.51 | 13.75 | 75.76 | 3.600 | No | Yes | 2.00 |
| 715 | 47.91 | 18.38 | 3.26 | 3.59 | 1.00 | 5.37 | 14.28 | 76.63 | 3.600 | No | Yes | 2.00 |
| 716 | 47.93 | 17.68 | 3.30 | 3.86 | 1.00 | 5.12 | 15.17 | 77.65 | 3.600 | No | Yes | 2.00 |
| 717 | 47.97 | 17.78 | 3.30 | 3.92 | 1.00 | 5.15 | 15.21 | 78.37 | 3.600 | No | Yes | 2.00 |
| 718 | 48.02 | 17.86 | 3.31 | 4.05 | 1.00 | 5.17 | 15.38 | 79.56 | 3.600 | No | Yes | 2.00 |
| 719 | 48.07 | 18.51 | 3.30 | 4.11 | 1.00 | 5.39 | 15.07 | 81.21 | 3.600 | No | Yes | 2.00 |
| 720 | 48.12 | 18.61 | 3.31 | 4.43 | 1.00 | 5.42 | 15.51 | 84.04 | 3.600 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 721 | 48.19 | 18.71 | 3.33 | 4.73 | 1.00 | 5.44 | 15.90 | 86.54 | 3.600 | No | Yes | 2.00 |
| 722 | 48.23 | 18.91 | 3.33 | 4.96 | 1.00 | 5.51 | 16.11 | 88.74 | 3.600 | No | Yes | 2.00 |
| 723 | 48.31 | 19.15 | 3.33 | 5.05 | 1.00 | 5.58 | 16.11 | 89.88 | 3.600 | No | Yes | 2.00 |
| 724 | 48.35 | 19.35 | 3.33 | 5.13 | 1.00 | 5.64 | 16.11 | 90.92 | 3.600 | No | Yes | 2.00 |
| 725 | 48.40 | 19.25 | 3.34 | 5.27 | 1.00 | 5.60 | 16.37 | 91.72 | 3.600 | No | Yes | 2.00 |
| 726 | 48.45 | 18.81 | 3.36 | 5.50 | 1.00 | 5.45 | 16.96 | 92.39 | 3.600 | No | Yes | 2.00 |
| 727 | 48.50 | 18.07 | 3.40 | 5.83 | 1.00 | 5.19 | 17.92 | 92.93 | 3.600 | No | Yes | 2.00 |
| 728 | 48.55 | 17.80 | 3.41 | 6.00 | 1.00 | 5.09 | 18.35 | 93.37 | 3.600 | No | Yes | 2.00 |
| 729 | 48.59 | 17.64 | 3.42 | 6.20 | 1.00 | 5.03 | 18.75 | 94.24 | 3.600 | No | Yes | 2.00 |
| 730 | 48.67 | 17.87 | 3.42 | 6.18 | 1.00 | 5.10 | 18.56 | 94.62 | 3.600 | No | Yes | 2.00 |
| 731 | 48.73 | 17.84 | 3.42 | 6.16 | 1.00 | 5.08 | 18.58 | 94.36 | 3.600 | No | Yes | 2.00 |
| 732 | 48.78 | 17.97 | 3.40 | 5.89 | 1.00 | 5.12 | 18.13 | 92.80 | 3.600 | No | Yes | 2.00 |
| 733 | 48.83 | 17.97 | 3.39 | 5.58 | 1.00 | 5.11 | 17.74 | 90.68 | 3.600 | No | Yes | 2.00 |
| 734 | 48.91 | 17.94 | 3.38 | 5.27 | 1.00 | 5.09 | 17.35 | 88.35 | 3.600 | No | Yes | 2.00 |
| 735 | 48.98 | 17.84 | 3.37 | 5.04 | 1.00 | 5.05 | 17.10 | 86.35 | 3.600 | No | Yes | 2.00 |
| 736 | 49.03 | 17.74 | 3.37 | 4.91 | 1.00 | 5.01 | 17.00 | 85.19 | 3.600 | No | Yes | 2.00 |
| 737 | 49.12 | 17.68 | 3.35 | 4.63 | 1.00 | 4.98 | 16.65 | 82.90 | 3.600 | No | Yes | 2.00 |
| 738 | 49.17 | 17.75 | 3.33 | 4.17 | 1.00 | 5.00 | 15.91 | 79.48 | 3.600 | No | Yes | 2.00 |
| 739 | 49.27 | 18.02 | 3.30 | 3.75 | 1.00 | 5.08 | 15.07 | 76.51 | 3.600 | No | Yes | 2.00 |
| 740 | 49.31 | 18.56 | 3.28 | 3.65 | 1.00 | 5.25 | 14.57 | 76.55 | 3.600 | No | Yes | 2.00 |
| 741 | 49.38 | 19.20 | 3.27 | 3.79 | 1.00 | 5.46 | 14.44 | 78.88 | 3.600 | No | Yes | 2.00 |
| 742 | 49.45 | 19.70 | 3.27 | 3.95 | 1.00 | 5.62 | 14.44 | 81.15 | 3.600 | No | Yes | 2.00 |
| 743 | 49.51 | 19.00 | 3.31 | 4.33 | 1.00 | 5.38 | 15.44 | 83.00 | 3.600 | No | Yes | 2.00 |
| 744 | 49.54 | 19.44 | 3.30 | 4.37 | 1.00 | 5.52 | 15.24 | 84.13 | 3.600 | No | Yes | 2.00 |
| 745 | 49.59 | 20.18 | 3.28 | 4.25 | 1.00 | 5.76 | 14.65 | 84.45 | 3.600 | No | Yes | 2.00 |
| 746 | 49.64 | 21.53 | 3.23 | 3.89 | 1.00 | 6.21 | 13.47 | 83.63 | 3.600 | No | Yes | 2.00 |
| 747 | 49.73 | 21.20 | 3.24 | 3.89 | 1.00 | 6.09 | 13.64 | 83.01 | 3.600 | No | Yes | 2.00 |
| 748 | 49.83 | 20.02 | 3.27 | 4.07 | 1.00 | 5.68 | 14.52 | 82.47 | 3.600 | No | Yes | 2.00 |
| 749 | 49.92 | 18.88 | 3.31 | 4.30 | 1.00 | 5.29 | 15.55 | 82.19 | 3.600 | No | Yes | 2.00 |
| 750 | 49.98 | 17.86 | 3.35 | 4.49 | 1.00 | 4.94 | 16.51 | 81.62 | 3.600 | No | Yes | 2.00 |
| 751 | 50.07 | 17.33 | 3.37 | 4.57 | 1.00 | 4.75 | 17.04 | 81.01 | 3.600 | No | Yes | 2.00 |
| 752 | 50.16 | 16.99 | 3.38 | 4.61 | 1.00 | 4.63 | 17.38 | 80.51 | 3.600 | No | Yes | 2.00 |
| 753 | 50.24 | 16.69 | 3.39 | 4.65 | 1.00 | 4.52 | 17.70 | 80.06 | 3.600 | No | Yes | 2.00 |
| 754 | 50.32 | 16.46 | 3.40 | 4.71 | 1.00 | 4.44 | 17.99 | 79.87 | 3.600 | No | Yes | 2.00 |
| 755 | 50.41 | 16.32 | 3.41 | 4.79 | 1.00 | 4.39 | 18.25 | 80.02 | 3.600 | No | Yes | 2.00 |
| 756 | 50.50 | 16.36 | 3.41 | 4.79 | 1.00 | 4.39 | 18.25 | 80.09 | 3.600 | No | Yes | 2.00 |
| 757 | 50.56 | 16.26 | 3.41 | 4.73 | 1.00 | 4.35 | 18.25 | 79.36 | 3.600 | No | Yes | 2.00 |
| 758 | 50.66 | 16.09 | 3.41 | 4.63 | 1.00 | 4.28 | 18.27 | 78.27 | 3.600 | No | Yes | 2.00 |
| 759 | 50.74 | 15.92 | 3.41 | 4.59 | 1.00 | 4.22 | 18.37 | 77.53 | 3.600 | No | Yes | 2.00 |
| 760 | 50.84 | 15.85 | 3.43 | 4.94 | 1.00 | 4.19 | 19.00 | 79.62 | 3.600 | No | Yes | 2.00 |
| 761 | 50.93 | 15.95 | 3.46 | 5.57 | 1.00 | 4.21 | 19.91 | 83.88 | 3.600 | No | Yes | 2.00 |
| 762 | 50.98 | 16.77 | 3.48 | 6.56 | 1.00 | 4.47 | 20.59 | 92.08 | 3.600 | No | Yes | 2.00 |
| 763 | 51.08 | 19.60 | 3.43 | 7.08 | 1.00 | 5.39 | 19.08 | 102.75 | 3.600 | No | Yes | 2.00 |
| 764 | 51.17 | 24.45 | 3.34 | 6.97 | 1.00 | 6.95 | 16.30 | 113.31 | 3.600 | No | Yes | 2.00 |
| 765 | 51.24 | 30.11 | 3.25 | 6.75 | 1.00 | 8.78 | 13.98 | 122.80 | 3.600 | No | Yes | 2.00 |
| 766 | 51.34 | 33.65 | 3.21 | 6.76 | 1.00 | 9.91 | 13.03 | 129.12 | 3.600 | No | Yes | 2.00 |
| 767 | 51.41 | 34.16 | 3.18 | 6.01 | 1.00 | 10.06 | 12.19 | 122.59 | 3.600 | No | Yes | 2.00 |
| 768 | 51.51 | 32.81 | 3.17 | 5.54 | 1.00 | 9.60 | 12.05 | 115.66 | 3.600 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 769 | 51.58 | 31.20 | 3.16 | 4.92 | 1.00 | 9.06 | 11.80 | 106.93 | 3.600 | No | Yes | 2.00 |
| 770 | 51.68 | 29.95 | 3.20 | 5.43 | 1.00 | 8.64 | 12.73 | 109.98 | 3.600 | No | Yes | 2.00 |
| 771 | 51.79 | 27.39 | 3.26 | 5.93 | 1.00 | 7.80 | 14.12 | 110.16 | 3.600 | No | Yes | 2.00 |
| 772 | 51.82 | 25.87 | 3.30 | 6.27 | 1.00 | 7.31 | 15.07 | 110.15 | 3.600 | No | Yes | 2.00 |
| 773 | 51.85 | 24.39 | 3.34 | 6.78 | 1.00 | 6.83 | 16.27 | 111.07 | 3.600 | No | Yes | 2.00 |
| 774 | 51.91 | 25.00 | 3.34 | 6.90 | 1.00 | 7.01 | 16.14 | 113.23 | 3.600 | No | Yes | 2.00 |
| 775 | 52.00 | 24.87 | 3.36 | 7.36 | 1.00 | 6.96 | 16.71 | 116.25 | 3.600 | No | Yes | 2.00 |
| 776 | 52.05 | 27.06 | 3.31 | 7.10 | 1.00 | 7.65 | 15.54 | 118.92 | 3.600 | No | Yes | 2.00 |
| 777 | 52.10 | 31.78 | 3.21 | 6.10 | 1.00 | 9.15 | 13.00 | 118.95 | 3.600 | No | Yes | 2.00 |
| 778 | 52.19 | 38.49 | 3.08 | 4.92 | 1.00 | 11.27 | 10.28 | 115.81 | 3.600 | No | Yes | 2.00 |
| 779 | 52.28 | 44.04 | 2.99 | 4.15 | 1.00 | 13.02 | 8.58 | 111.69 | 3.600 | No | Yes | 2.00 |
| 780 | 52.34 | 46.37 | 2.95 | 3.85 | 1.00 | 13.74 | 7.96 | 109.32 | 3.600 | No | Yes | 2.00 |
| 781 | 52.42 | 46.09 | 2.96 | 3.90 | 1.00 | 13.63 | 8.05 | 109.66 | 3.600 | No | Yes | 2.00 |
| 782 | 52.48 | 44.34 | 2.98 | 4.10 | 1.00 | 13.05 | 8.50 | 111.03 | 3.600 | No | Yes | 2.00 |
| 783 | 52.57 | 42.32 | 3.01 | 4.26 | 1.00 | 12.39 | 8.98 | 111.27 | 3.600 | No | Yes | 2.00 |
| 784 | 52.62 | 40.26 | 3.03 | 4.31 | 1.00 | 11.73 | 9.37 | 109.88 | 3.600 | No | Yes | 2.00 |
| 785 | 52.69 | 38.51 | 3.05 | 4.22 | 1.00 | 11.16 | 9.58 | 106.89 | 3.600 | No | Yes | 2.00 |
| 786 | 52.77 | 36.89 | 3.06 | 4.17 | 1.00 | 10.63 | 9.83 | 104.50 | 3.600 | No | Yes | 2.00 |
| 787 | 52.87 | 35.55 | 3.08 | 4.24 | 1.00 | 10.19 | 10.19 | 103.83 | 3.600 | No | Yes | 2.00 |
| 788 | 52.91 | 34.07 | 3.10 | 4.28 | 1.00 | 9.71 | 10.56 | 102.56 | 3.600 | No | Yes | 2.00 |
| 789 | 53.01 | 32.55 | 3.12 | 4.42 | 1.00 | 9.21 | 11.08 | 102.13 | 3.600 | No | Yes | 2.00 |
| 790 | 53.10 | 32.18 | 3.14 | 4.56 | 1.00 | 9.08 | 11.35 | 103.11 | 3.600 | No | Yes | 2.00 |
| 791 | 53.16 | 34.04 | 3.15 | 5.28 | 1.00 | 9.65 | 11.74 | 113.26 | 3.600 | No | Yes | 2.00 |
| 792 | 53.25 | 38.69 | 3.13 | 5.64 | 1.00 | 11.08 | 11.13 | 123.32 | 3.600 | No | Yes | 2.00 |
| 793 | 53.29 | 44.28 | 3.10 | 6.15 | 1.00 | 12.82 | 10.63 | 136.25 | 3.600 | No | Yes | 2.00 |
| 794 | 53.38 | 48.90 | 3.07 | 6.34 | 1.00 | 14.23 | 10.13 | 144.18 | 3.600 | No | Yes | 2.00 |
| 795 | 53.42 | 59.32 | 2.99 | 5.88 | 1.00 | 17.47 | 8.56 | 149.47 | 3.600 | No | Yes | 2.00 |
| 796 | 53.47 | 74.66 | 2.87 | 5.11 | 1.00 | 22.21 | 6.75 | 150.02 | 3.600 | No | Yes | 2.00 |
| 797 | 53.52 | 92.88 | 2.76 | 4.46 | 1.00 | 27.85 | 5.32 | 148.22 | 3.600 | No | Yes | 2.00 |
| 798 | 53.58 | 102.94 | 2.72 | 4.44 | 1.00 | 30.94 | 4.93 | 152.55 | 3.600 | No | Yes | 2.00 |
| 799 | 53.66 | 103.80 | 2.74 | 4.76 | 1.00 | 31.15 | 5.14 | 160.18 | 3.600 | No | Yes | 2.00 |
| 800 | 53.75 | 98.64 | 2.79 | 5.33 | 1.00 | 29.50 | 5.74 | 169.41 | 3.600 | No | Yes | 2.00 |
| 801 | 53.81 | 88.93 | 2.86 | 5.98 | 1.00 | 26.46 | 6.64 | 175.67 | 3.600 | No | Yes | 2.00 |
| 802 | 53.87 | 78.89 | 2.93 | 6.58 | 1.00 | 23.33 | 7.63 | 177.89 | 3.600 | No | Yes | 2.00 |
| 803 | 53.95 | 67.24 | 3.02 | 7.41 | 1.00 | 19.70 | 9.07 | 178.71 | 3.600 | No | Yes | 2.00 |
| 804 | 54.01 | 57.35 | 3.10 | 8.28 | 1.00 | 16.64 | 10.67 | 177.57 | 3.600 | No | Yes | 2.00 |
| 805 | 54.06 | 47.51 | 3.20 | 9.23 | 1.00 | 13.60 | 12.71 | 172.90 | 3.600 | No | Yes | 2.00 |
| 806 | 54.15 | 41.78 | 3.26 | 9.77 | 1.00 | 11.83 | 14.16 | 167.57 | 3.600 | No | Yes | 2.00 |
| 807 | 54.20 | 40.60 | 3.27 | 9.77 | 1.00 | 11.46 | 14.42 | 165.24 | 3.600 | No | Yes | 2.00 |
| 808 | 54.29 | 47.57 | 3.17 | 8.38 | 1.00 | 13.59 | 12.09 | 164.23 | 3.600 | No | Yes | 2.00 |
| 809 | 54.34 | 69.40 | 2.89 | 4.90 | 1.00 | 20.27 | 7.00 | 141.87 | 4.000 | Yes | Yes | 2.00 |
| 810 | 54.43 | 100.37 | 2.59 | 2.67 | 1.00 | 29.73 | 3.65 | 108.63 | 4.000 | Yes | No | 2.00 |
| 811 | 54.45 | 137.16 | 2.32 | 1.48 | 1.00 | 41.00 | 2.00 | 82.07 | 4.000 | Yes | No | 2.00 |
| 812 | 54.48 | 166.07 | 2.20 | 1.22 | 1.00 | 49.83 | 1.62 | 80.59 | 4.000 | Yes | No | 2.00 |
| 813 | 54.52 | 185.51 | 2.14 | 1.11 | 1.00 | 55.76 | 1.48 | 82.69 | 4.000 | Yes | No | 2.00 |
| 814 | 54.53 | 198.85 | 2.12 | 1.13 | 1.00 | 59.83 | 1.45 | 86.57 | 4.000 | Yes | No | 2.00 |
| 815 | 54.58 | 207.94 | 2.11 | 1.17 | 1.00 | 62.58 | 1.44 | 89.91 | 0.148 | No | No | 0.75 |
| 816 | 54.62 | 219.64 | 2.10 | 1.19 | 1.00 | 66.13 | 1.42 | 93.59 | 0.156 | No | No | 0.80 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 817 | 54.65 | 233.46 | 2.07 | 1.16 | 1.00 | 70.33 | 1.38 | 96.81 | 0.164 | No | No | 0.84 |
| 818 | 54.70 | 244.67 | 2.05 | 1.15 | 1.00 | 73.72 | 1.36 | 99.98 | 0.173 | No | No | 0.88 |
| 819 | 54.76 | 251.12 | 2.05 | 1.17 | 1.00 | 75.64 | 1.35 | 102.23 | 0.179 | No | No | 0.92 |
| 820 | 54.77 | 249.88 | 2.06 | 1.22 | 1.00 | 75.25 | 1.37 | 102.77 | 0.181 | No | No | 0.92 |
| 821 | 54.82 | 251.50 | 2.06 | 1.21 | 1.00 | 75.71 | 1.36 | 103.16 | 0.182 | No | No | 0.93 |
| 822 | 54.87 | 253.07 | 2.05 | 1.21 | 1.00 | 76.14 | 1.36 | 103.55 | 0.183 | No | No | 0.94 |
| 823 | 54.88 | 255.63 | 2.05 | 1.20 | 1.00 | 76.92 | 1.35 | 104.08 | 0.185 | No | No | 0.94 |
| 824 | 54.91 | 257.28 | 2.05 | 1.20 | 1.00 | 77.39 | 1.35 | 104.56 | 0.186 | No | No | 0.95 |
| 825 | 54.96 | 263.42 | 2.04 | 1.18 | 1.00 | 79.22 | 1.34 | 106.09 | 0.191 | No | No | 0.98 |
| 826 | 54.97 | 276.70 | 2.01 | 1.17 | 1.00 | 83.26 | 1.32 | 109.90 | 0.203 | No | No | 1.04 |
| 827 | 55.03 | 294.89 | 1.99 | 1.17 | 1.00 | 88.74 | 1.30 | 115.47 | 0.223 | No | No | 1.14 |
| 828 | 55.09 | 315.21 | 1.96 | 1.11 | 1.00 | 94.86 | 1.27 | 120.89 | 0.244 | No | No | 1.25 |
| 829 | 55.15 | 327.84 | 1.89 | 0.92 | 1.00 | 98.63 | 1.23 | 121.55 | 0.247 | No | No | 1.26 |
| 830 | 55.20 | 338.35 | 1.85 | 0.83 | 1.00 | 101.77 | 1.20 | 122.41 | 0.251 | No | No | 1.28 |
| 831 | 55.25 | 358.17 | 1.78 | 0.67 | 1.00 | 107.74 | 1.13 | 121.49 | 0.247 | No | No | 1.26 |
| 832 | 55.30 | 386.84 | 1.77 | 0.71 | 1.00 | 116.38 | 1.11 | 129.28 | 0.281 | No | No | 1.44 |
| 833 | 55.34 | 417.50 | 1.74 | 0.72 | 1.00 | 125.63 | 1.07 | 134.62 | 0.307 | No | No | 1.57 |
| 834 | 55.39 | 440.05 | 1.76 | 0.82 | 1.00 | 132.40 | 1.10 | 146.03 | 0.370 | No | No | 1.89 |
| 835 | 55.40 | 462.28 | 1.76 | 0.87 | 1.00 | 139.13 | 1.10 | 153.71 | 0.418 | No | No | 2.00 |
| 836 | 55.44 | 482.80 | 1.75 | 0.87 | 1.00 | 145.29 | 1.08 | 157.35 | 0.442 | No | No | 2.00 |
| 837 | 55.44 | 511.21 | 1.72 | 0.83 | 1.00 | 153.88 | 1.02 | 157.04 | 0.440 | No | No | 2.00 |
| 838 | 55.49 | 517.76 | 1.72 | 0.86 | 1.00 | 155.78 | 1.03 | 160.78 | 0.467 | No | No | 2.00 |
| 839 | 55.54 | 533.43 | 1.73 | 0.91 | 1.00 | 160.44 | 1.05 | 167.71 | 0.519 | No | No | 2.00 |
| 840 | 55.59 | 534.98 | 1.76 | 1.00 | 1.00 | 160.82 | 1.10 | 176.17 | 0.588 | No | No | 2.00 |
| 841 | 55.63 | 551.08 | 1.75 | 1.02 | 1.00 | 165.61 | 1.09 | 180.34 | 0.625 | No | No | 2.00 |
| 842 | 55.64 | 553.47 | 1.75 | 1.02 | 1.00 | 166.31 | 1.09 | 180.79 | 0.630 | No | No | 2.00 |
| 843 | 55.68 | 566.94 | 1.73 | 0.98 | 1.00 | 170.31 | 1.06 | 179.92 | 0.622 | No | No | 2.00 |
| 844 | 55.69 | 570.38 | 1.73 | 0.97 | 1.00 | 171.33 | 1.04 | 178.50 | 0.609 | No | No | 2.00 |
| 845 | 55.69 | 566.17 | 1.73 | 0.98 | 1.00 | 170.04 | 1.05 | 179.38 | 0.617 | No | No | 2.00 |
| 846 | 55.71 | 561.62 | 1.75 | 1.03 | 1.00 | 168.63 | 1.09 | 183.08 | 0.651 | No | No | 2.00 |
| 847 | 55.76 | 567.28 | 1.76 | 1.06 | 1.00 | 170.25 | 1.10 | 186.45 | 0.683 | No | No | 2.00 |
| 848 | 55.78 | 580.19 | 1.75 | 1.05 | 1.00 | 174.11 | 1.08 | 187.85 | 0.696 | No | No | 2.00 |
| 849 | 55.81 | 581.23 | 1.72 | 0.98 | 1.00 | 174.36 | 1.04 | 180.96 | 0.631 | No | No | 2.00 |
| 850 | 55.85 | 584.16 | 1.69 | 0.88 | 1.00 | 175.16 | 1.00 | 175.16 | 0.580 | No | No | 2.00 |
| 851 | 55.86 | 588.34 | 1.65 | 0.77 | 1.00 | 176.41 | 1.00 | 176.41 | 0.591 | No | No | 2.00 |
| 852 | 55.91 | 598.65 | 1.62 | 0.70 | 1.00 | 179.42 | 1.00 | 179.42 | 0.617 | No | No | 2.00 |
| 853 | 55.92 | 602.25 | 1.60 | 0.66 | 1.00 | 180.48 | 1.00 | 180.48 | 0.627 | No | No | 2.00 |
| 854 | 55.96 | 619.03 | 1.58 | 0.63 | 1.00 | 185.46 | 1.00 | 185.46 | 0.673 | No | No | 2.00 |
| 855 | 55.97 | 634.09 | 1.57 | 0.63 | 1.00 | 189.98 | 1.00 | 189.98 | 0.718 | No | No | 2.00 |
| 856 | 56.00 | 654.37 | 1.56 | 0.64 | 1.00 | 196.01 | 1.00 | 196.01 | 0.780 | No | No | 2.00 |
| 857 | 56.01 | 660.12 | 1.58 | 0.69 | 1.00 | 197.72 | 1.00 | 197.72 | 0.799 | No | No | 2.00 |
| 858 | 56.03 | 661.79 | 1.59 | 0.72 | 1.00 | 198.18 | 1.00 | 198.18 | 0.804 | No | No | 2.00 |
| 859 | 56.05 | 661.82 | 1.60 | 0.74 | 1.00 | 198.14 | 1.00 | 198.14 | 0.803 | No | No | 2.00 |
| 860 | 56.10 | 665.04 | 1.60 | 0.73 | 1.00 | 198.99 | 1.00 | 198.99 | 0.813 | No | No | 2.00 |
| 861 | 56.12 | 668.02 | 1.58 | 0.70 | 1.00 | 199.86 | 1.00 | 199.86 | 0.822 | No | No | 2.00 |
| 862 | 56.16 | 667.69 | 1.57 | 0.68 | 1.00 | 199.67 | 1.00 | 199.67 | 0.820 | No | No | 2.00 |
| 863 | 56.17 | 654.78 | 1.57 | 0.67 | 1.00 | 195.76 | 1.00 | 195.76 | 0.778 | No | No | 2.00 |
| 864 | 56.20 | 635.11 | 1.59 | 0.69 | 1.00 | 189.78 | 1.00 | 189.78 | 0.716 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 865 | 56.22 | 617.48 | 1.61 | 0.71 | 1.00 | 184.46 | 1.00 | 184.46 | 0.664 | No | No | 2.00 |
| 866 | 56.24 | 608.45 | 1.61 | 0.71 | 1.00 | 181.69 | 1.00 | 181.69 | 0.638 | No | No | 2.00 |
| 867 | 56.30 | 602.69 | 1.62 | 0.70 | 1.00 | 179.84 | 1.00 | 179.84 | 0.621 | No | No | 2.00 |
| 868 | 56.31 | 595.69 | 1.63 | 0.72 | 1.00 | 177.72 | 1.00 | 177.72 | 0.602 | No | No | 2.00 |
| 869 | 56.34 | 586.22 | 1.65 | 0.77 | 1.00 | 174.82 | 1.00 | 174.82 | 0.577 | No | No | 2.00 |
| 870 | 56.39 | 579.04 | 1.66 | 0.78 | 1.00 | 172.57 | 1.00 | 172.57 | 0.558 | No | No | 2.00 |
| 871 | 56.45 | 572.30 | 1.67 | 0.79 | 1.00 | 170.44 | 1.00 | 170.44 | 0.540 | No | No | 2.00 |
| 872 | 56.48 | 565.39 | 1.67 | 0.79 | 1.00 | 168.31 | 1.00 | 168.31 | 0.523 | No | No | 2.00 |
| 873 | 56.49 | 555.45 | 1.70 | 0.85 | 1.00 | 165.32 | 1.00 | 165.32 | 0.500 | No | No | 2.00 |
| 874 | 56.53 | 542.15 | 1.73 | 0.91 | 1.00 | 161.25 | 1.05 | 168.57 | 0.525 | No | No | 2.00 |
| 875 | 56.58 | 529.04 | 1.75 | 0.94 | 1.00 | 157.24 | 1.08 | 169.38 | 0.532 | No | No | 2.00 |
| 876 | 56.63 | 524.73 | 1.67 | 0.72 | 1.00 | 155.86 | 1.00 | 155.86 | 0.432 | No | No | 2.00 |
| 877 | 56.68 | 526.01 | 1.58 | 0.52 | 1.00 | 156.17 | 1.00 | 156.17 | 0.434 | No | No | 2.00 |
| 878 | 56.73 | 531.33 | 1.53 | 0.43 | 1.00 | 157.68 | 1.00 | 157.68 | 0.445 | No | No | 2.00 |
| 879 | 56.78 | 526.31 | 1.62 | 0.60 | 1.00 | 156.09 | 1.00 | 156.09 | 0.434 | No | No | 2.00 |
| 880 | 56.83 | 517.99 | 1.69 | 0.76 | 1.00 | 153.53 | 1.00 | 153.53 | 0.417 | No | No | 2.00 |
| 881 | 56.89 | 503.37 | 1.73 | 0.85 | 1.00 | 149.05 | 1.06 | 157.35 | 0.442 | No | No | 2.00 |
| 882 | 56.95 | 485.04 | 1.77 | 0.94 | 1.00 | 143.50 | 1.12 | 160.76 | 0.466 | No | No | 2.00 |
| 883 | 56.99 | 470.25 | 1.81 | 1.02 | 1.00 | 139.02 | 1.16 | 161.37 | 0.471 | No | No | 2.00 |
| 884 | 57.01 | 460.92 | 1.83 | 1.07 | 1.00 | 136.23 | 1.18 | 160.98 | 0.468 | No | No | 2.00 |
| 885 | 57.04 | 461.73 | 1.82 | 1.05 | 1.00 | 136.41 | 1.18 | 160.65 | 0.466 | No | No | 2.00 |
| 886 | 57.09 | 468.20 | 1.81 | 1.02 | 1.00 | 138.26 | 1.17 | 161.13 | 0.469 | No | No | 2.00 |
| 887 | 57.11 | 477.43 | 1.81 | 1.03 | 1.00 | 140.98 | 1.16 | 163.57 | 0.487 | No | No | 2.00 |
| 888 | 57.13 | 488.62 | 1.81 | 1.06 | 1.00 | 144.26 | 1.16 | 167.47 | 0.517 | No | No | 2.00 |
| 889 | 57.18 | 488.78 | 1.82 | 1.11 | 1.00 | 144.24 | 1.17 | 169.44 | 0.532 | No | No | 2.00 |
| 890 | 57.19 | 477.80 | 1.85 | 1.18 | 1.00 | 140.96 | 1.20 | 168.95 | 0.529 | No | No | 2.00 |
| 891 | 57.21 | 464.47 | 1.87 | 1.22 | 1.00 | 136.96 | 1.21 | 166.30 | 0.508 | No | No | 2.00 |
| 892 | 57.24 | 456.12 | 1.88 | 1.23 | 1.00 | 134.45 | 1.22 | 164.00 | 0.490 | No | No | 2.00 |
| 893 | 57.28 | 456.72 | 1.87 | 1.20 | 1.00 | 134.56 | 1.21 | 163.35 | 0.485 | No | No | 2.00 |
| 894 | 57.32 | 450.91 | 1.87 | 1.19 | 1.00 | 132.78 | 1.22 | 161.45 | 0.471 | No | No | 2.00 |
| 895 | 57.35 | 445.39 | 1.88 | 1.21 | 1.00 | 131.08 | 1.22 | 160.03 | 0.461 | No | No | 2.00 |
| 896 | 57.38 | 435.59 | 1.89 | 1.22 | 1.00 | 128.14 | 1.23 | 157.50 | 0.443 | No | No | 2.00 |
| 897 | 57.43 | 430.50 | 1.89 | 1.21 | 1.00 | 126.56 | 1.23 | 155.53 | 0.430 | No | No | 2.00 |
| 898 | 57.48 | 414.66 | 1.90 | 1.19 | 1.00 | 121.80 | 1.23 | 150.26 | 0.396 | No | No | 2.00 |
| 899 | 57.52 | 398.59 | 1.89 | 1.12 | 1.00 | 116.98 | 1.23 | 143.92 | 0.357 | No | No | 1.85 |
| 900 | 57.57 | 389.56 | 1.91 | 1.18 | 1.00 | 114.25 | 1.25 | 142.28 | 0.348 | No | No | 1.80 |
| 901 | 57.62 | 396.66 | 1.94 | 1.29 | 1.00 | 116.29 | 1.26 | 146.53 | 0.373 | No | No | 1.93 |
| 902 | 57.68 | 427.50 | 1.92 | 1.35 | 1.00 | 125.32 | 1.25 | 157.03 | 0.440 | No | No | 2.00 |
| 903 | 57.76 | 462.23 | 1.88 | 1.27 | 1.00 | 135.46 | 1.23 | 166.00 | 0.505 | No | No | 2.00 |
| 904 | 57.81 | 505.50 | 1.75 | 0.90 | 1.00 | 148.16 | 1.09 | 161.17 | 0.469 | No | No | 2.00 |
| 905 | 57.86 | 543.58 | 1.63 | 0.63 | 1.00 | 159.31 | 1.00 | 159.31 | 0.456 | No | No | 2.00 |
| 906 | 57.89 | 572.52 | 1.49 | 0.39 | 1.00 | 167.80 | 1.00 | 167.80 | 0.519 | No | No | 2.00 |
| 907 | 57.91 | 583.54 | 1.48 | 0.39 | 1.00 | 171.02 | 1.00 | 171.02 | 0.545 | No | No | 2.00 |
| 908 | 57.92 | 577.13 | 1.50 | 0.42 | 1.00 | 169.11 | 1.00 | 169.11 | 0.530 | No | No | 2.00 |
| 909 | 57.95 | 569.05 | 1.54 | 0.47 | 1.00 | 166.67 | 1.00 | 166.67 | 0.511 | No | No | 2.00 |
| 910 | 57.99 | 570.66 | 1.56 | 0.52 | 1.00 | 167.08 | 1.00 | 167.08 | 0.514 | No | No | 2.00 |
| 911 | 58.01 | 578.72 | 1.57 | 0.56 | 1.00 | 169.42 | 1.00 | 169.42 | 0.532 | No | No | 2.00 |
| 912 | 58.05 | 591.19 | 1.58 | 0.58 | 1.00 | 173.02 | 1.00 | 173.02 | 0.562 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 913 | 58.05 | 598.87 | 1.59 | 0.62 | 1.00 | 175.27 | 1.00 | 175.27 | 0.581 | No | No | 2.00 |
| 914 | 58.10 | 604.77 | 1.60 | 0.65 | 1.00 | 176.91 | 1.00 | 176.91 | 0.595 | No | No | 2.00 |
| 915 | 58.13 | 611.17 | 1.60 | 0.67 | 1.00 | 178.73 | 1.00 | 178.73 | 0.611 | No | No | 2.00 |
| 916 | 58.15 | 618.51 | 1.60 | 0.66 | 1.00 | 180.87 | 1.00 | 180.87 | 0.630 | No | No | 2.00 |
| 917 | 58.17 | 625.12 | 1.59 | 0.65 | 1.00 | 182.75 | 1.00 | 182.75 | 0.648 | No | No | 2.00 |
| 918 | 58.20 | 623.43 | 1.59 | 0.66 | 1.00 | 182.21 | 1.00 | 182.21 | 0.643 | No | No | 2.00 |
| 919 | 58.21 | 619.40 | 1.60 | 0.67 | 1.00 | 181.00 | 1.00 | 181.00 | 0.632 | No | No | 2.00 |
| 920 | 58.21 | 614.30 | 1.61 | 0.68 | 1.00 | 179.50 | 1.00 | 179.50 | 0.618 | No | No | 2.00 |
| 921 | 58.23 | 613.93 | 1.61 | 0.68 | 1.00 | 179.34 | 1.00 | 179.34 | 0.616 | No | No | 2.00 |
| 922 | 58.24 | 608.11 | 1.62 | 0.69 | 1.00 | 177.62 | 1.00 | 177.62 | 0.601 | No | No | 2.00 |
| 923 | 58.25 | 609.21 | 1.54 | 0.52 | 1.00 | 177.92 | 1.00 | 177.92 | 0.604 | No | No | 2.00 |
| 924 | 58.29 | 613.99 | 1.44 | 0.36 | 1.00 | 179.26 | 1.00 | 179.26 | 0.616 | No | No | 2.00 |
| 925 | 58.31 | 627.24 | 1.32 | 0.20 | 1.00 | 183.11 | 1.00 | 183.11 | 0.651 | No | No | 2.00 |
| 926 | 58.33 | 639.00 | 1.34 | 0.24 | 1.00 | 186.52 | 1.00 | 186.52 | 0.683 | No | No | 2.00 |
| 927 | 58.38 | 651.36 | 1.37 | 0.28 | 1.00 | 190.06 | 1.00 | 190.06 | 0.718 | No | No | 2.00 |
| 928 | 58.39 | 661.87 | 1.39 | 0.32 | 1.00 | 193.13 | 1.00 | 193.13 | 0.750 | No | No | 2.00 |
| 929 | 58.43 | 670.53 | 1.40 | 0.34 | 1.00 | 195.59 | 1.00 | 195.59 | 0.776 | No | No | 2.00 |
| 930 | 58.43 | 682.73 | 1.39 | 0.33 | 1.00 | 199.15 | 1.00 | 199.15 | 0.815 | No | No | 2.00 |
| 931 | 58.48 | 688.02 | 1.40 | 0.35 | 1.00 | 200.60 | 1.00 | 200.60 | 4.000 | No | No | 2.00 |
| 932 | 58.53 | 694.39 | 1.41 | 0.38 | 1.00 | 202.36 | 1.00 | 202.36 | 4.000 | No | No | 2.00 |
| 933 | 58.56 | 696.37 | 1.46 | 0.46 | 1.00 | 202.90 | 1.00 | 202.90 | 4.000 | No | No | 2.00 |
| 934 | 58.58 | 704.43 | 1.47 | 0.49 | 1.00 | 205.20 | 1.00 | 205.20 | 4.000 | No | No | 2.00 |
| 935 | 58.59 | 710.90 | 1.49 | 0.52 | 1.00 | 207.06 | 1.00 | 207.06 | 4.000 | No | No | 2.00 |
| 936 | 58.63 | 707.18 | 1.49 | 0.53 | 1.00 | 205.90 | 1.00 | 205.90 | 4.000 | No | No | 2.00 |
| 937 | 58.63 | 709.20 | 1.50 | 0.54 | 1.00 | 206.49 | 1.00 | 206.49 | 4.000 | No | No | 2.00 |
| 938 | 58.63 | 695.36 | 1.51 | 0.54 | 1.00 | 202.42 | 1.00 | 202.42 | 4.000 | No | No | 2.00 |
| 939 | 58.68 | 700.19 | 1.49 | 0.51 | 1.00 | 203.74 | 1.00 | 203.74 | 4.000 | No | No | 2.00 |
| 940 | 58.69 | 701.88 | 1.45 | 0.44 | 1.00 | 204.22 | 1.00 | 204.22 | 4.000 | No | No | 2.00 |
| 941 | 58.72 | 717.85 | 1.40 | 0.38 | 1.00 | 208.81 | 1.00 | 208.81 | 4.000 | No | No | 2.00 |
| 942 | 58.73 | 722.94 | 1.38 | 0.36 | 1.00 | 210.28 | 1.00 | 210.28 | 4.000 | No | No | 2.00 |
| 943 | 58.74 | 728.64 | 1.41 | 0.40 | 1.00 | 211.92 | 1.00 | 211.92 | 4.000 | No | No | 2.00 |
| 944 | 58.77 | 726.96 | 1.44 | 0.45 | 1.00 | 211.36 | 1.00 | 211.36 | 4.000 | No | No | 2.00 |
| 945 | 58.81 | 722.67 | 1.47 | 0.50 | 1.00 | 210.02 | 1.00 | 210.02 | 4.000 | No | No | 2.00 |
| 946 | 58.82 | 713.94 | 1.49 | 0.53 | 1.00 | 207.44 | 1.00 | 207.44 | 4.000 | No | No | 2.00 |
| 947 | 58.83 | 715.80 | 1.51 | 0.57 | 1.00 | 207.97 | 1.00 | 207.97 | 4.000 | No | No | 2.00 |
| 948 | 58.87 | 722.33 | 1.52 | 0.60 | 1.00 | 209.78 | 1.00 | 209.78 | 4.000 | No | No | 2.00 |
| 949 | 58.91 | 731.67 | 1.53 | 0.63 | 1.00 | 212.41 | 1.00 | 212.41 | 4.000 | No | No | 2.00 |
| 950 | 58.92 | 737.87 | 1.54 | 0.64 | 1.00 | 214.21 | 1.00 | 214.21 | 4.000 | No | No | 2.00 |
| 951 | 58.93 | 740.53 | 1.53 | 0.64 | 1.00 | 214.95 | 1.00 | 214.95 | 4.000 | No | No | 2.00 |
| 952 | 58.96 | 739.05 | 1.53 | 0.63 | 1.00 | 214.44 | 1.00 | 214.44 | 4.000 | No | No | 2.00 |
| 953 | 59.01 | 716.31 | 1.56 | 0.67 | 1.00 | 207.70 | 1.00 | 207.70 | 4.000 | No | No | 2.00 |
| 954 | 59.06 | 687.29 | 1.59 | 0.73 | 1.00 | 199.13 | 1.00 | 199.13 | 0.814 | No | No | 2.00 |
| 955 | 59.08 | 655.28 | 1.63 | 0.78 | 1.00 | 189.77 | 1.00 | 189.77 | 0.716 | No | No | 2.00 |
| 956 | 59.11 | 638.94 | 1.65 | 0.81 | 1.00 | 184.95 | 1.00 | 184.95 | 0.668 | No | No | 2.00 |
| 957 | 59.15 | 627.21 | 1.68 | 0.88 | 1.00 | 181.46 | 1.00 | 181.46 | 0.636 | No | No | 2.00 |
| 958 | 59.21 | 618.28 | 1.70 | 0.94 | 1.00 | 178.75 | 1.00 | 178.75 | 0.611 | No | No | 2.00 |
| 959 | 59.26 | 606.09 | 1.72 | 0.96 | 1.00 | 175.11 | 1.02 | 178.89 | 0.612 | No | No | 2.00 |
| 960 | 59.30 | 592.31 | 1.71 | 0.92 | 1.00 | 171.02 | 1.01 | 173.20 | 0.563 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 961 | 59.35 | 579.87 | 1.71 | 0.90 | 1.00 | 167.32 | 1.01 | 169.07 | 0.529 | No | No | 2.00 |
| 962 | 59.40 | 562.76 | 1.73 | 0.91 | 1.00 | 162.26 | 1.04 | 168.73 | 0.527 | No | No | 2.00 |
| 963 | 59.42 | 550.96 | 1.74 | 0.92 | 1.00 | 158.81 | 1.06 | 168.34 | 0.524 | No | No | 2.00 |
| 964 | 59.47 | 539.34 | 1.75 | 0.93 | 1.00 | 155.35 | 1.08 | 167.78 | 0.519 | No | No | 2.00 |
| 965 | 59.51 | 539.41 | 1.75 | 0.95 | 1.00 | 155.29 | 1.09 | 168.63 | 0.526 | No | No | 2.00 |
| 966 | 59.56 | 537.97 | 1.75 | 0.95 | 1.00 | 154.79 | 1.09 | 168.59 | 0.526 | No | No | 2.00 |
| 967 | 59.61 | 537.36 | 1.74 | 0.90 | 1.00 | 154.53 | 1.06 | 164.50 | 0.494 | No | No | 2.00 |
| 968 | 59.67 | 541.98 | 1.70 | 0.80 | 1.00 | 155.77 | 1.00 | 155.77 | 0.432 | No | No | 2.00 |
| 969 | 59.71 | 553.73 | 1.65 | 0.69 | 1.00 | 159.11 | 1.00 | 159.11 | 0.455 | No | No | 2.00 |
| 970 | 59.80 | 555.82 | 1.61 | 0.59 | 1.00 | 159.56 | 1.00 | 159.56 | 0.458 | No | No | 2.00 |
| 971 | 59.85 | 552.45 | 1.59 | 0.54 | 1.00 | 158.50 | 1.00 | 158.50 | 0.450 | No | No | 2.00 |
| 972 | 59.90 | 542.21 | 1.59 | 0.53 | 1.00 | 155.47 | 1.00 | 155.47 | 0.429 | No | No | 2.00 |
| 973 | 60.00 | 542.99 | 1.59 | 0.54 | 1.00 | 155.53 | 1.00 | 155.53 | 0.430 | No | No | 2.00 |
| 974 | 60.04 | 541.71 | 1.60 | 0.56 | 1.00 | 155.09 | 1.00 | 155.09 | 0.427 | No | No | 2.00 |
| 975 | 60.10 | 526.52 | 1.63 | 0.60 | 1.00 | 150.62 | 1.00 | 150.62 | 0.398 | No | No | 2.00 |
| 976 | 60.15 | 508.32 | 1.67 | 0.66 | 1.00 | 145.30 | 1.00 | 145.30 | 0.365 | No | No | 1.91 |
| 977 | 60.19 | 487.40 | 1.70 | 0.69 | 1.00 | 139.22 | 1.00 | 139.22 | 0.331 | No | No | 1.73 |
| 978 | 60.23 | 483.49 | 1.69 | 0.66 | 1.00 | 138.03 | 1.00 | 138.03 | 0.325 | No | No | 1.70 |
| 979 | 60.28 | 482.61 | 1.68 | 0.63 | 1.00 | 137.71 | 1.00 | 137.71 | 0.323 | No | No | 1.69 |
| 980 | 60.33 | 488.98 | 1.67 | 0.62 | 1.00 | 139.47 | 1.00 | 139.47 | 0.332 | No | No | 1.74 |
| 981 | 60.38 | 491.97 | 1.67 | 0.64 | 1.00 | 140.26 | 1.00 | 140.26 | 0.337 | No | No | 1.77 |
| 982 | 60.42 | 493.85 | 1.69 | 0.68 | 1.00 | 140.74 | 1.00 | 140.74 | 0.339 | No | No | 1.78 |
| 983 | 60.44 | 487.18 | 1.71 | 0.72 | 1.00 | 138.79 | 1.01 | 140.24 | 0.337 | No | No | 1.76 |
| 984 | 60.47 | 475.94 | 1.74 | 0.79 | 1.00 | 135.53 | 1.08 | 145.72 | 0.368 | No | No | 1.93 |
| 985 | 60.52 | 465.53 | 1.78 | 0.87 | 1.00 | 132.47 | 1.12 | 148.94 | 0.387 | No | No | 2.00 |
| 986 | 60.56 | 462.70 | 1.79 | 0.92 | 1.00 | 131.60 | 1.15 | 150.90 | 0.400 | No | No | 2.00 |
| 987 | 60.57 | 465.03 | 1.79 | 0.92 | 1.00 | 132.25 | 1.15 | 151.48 | 0.403 | No | No | 2.00 |
| 988 | 60.61 | 470.62 | 1.78 | 0.89 | 1.00 | 133.80 | 1.13 | 151.48 | 0.403 | No | No | 2.00 |
| 989 | 60.66 | 477.29 | 1.77 | 0.88 | 1.00 | 135.64 | 1.12 | 151.98 | 0.406 | No | No | 2.00 |
| 990 | 60.71 | 486.66 | 1.77 | 0.87 | 1.00 | 138.25 | 1.11 | 153.21 | 0.414 | No | No | 2.00 |
| 991 | 60.76 | 495.25 | 1.77 | 0.90 | 1.00 | 140.63 | 1.11 | 156.59 | 0.437 | No | No | 2.00 |
| 992 | 60.81 | 504.76 | 1.77 | 0.92 | 1.00 | 143.27 | 1.11 | 159.58 | 0.458 | No | No | 2.00 |
| 993 | 60.86 | 523.05 | 1.75 | 0.90 | 1.00 | 148.43 | 1.08 | 161.02 | 0.468 | No | No | 2.00 |
| 994 | 60.91 | 559.78 | 1.70 | 0.83 | 1.00 | 158.84 | 1.00 | 158.84 | 0.453 | No | No | 2.00 |
| 995 | 60.95 | 601.50 | 1.66 | 0.78 | 1.00 | 170.69 | 1.00 | 170.69 | 0.542 | No | No | 2.00 |
| 996 | 61.00 | 637.66 | 1.64 | 0.77 | 1.00 | 180.91 | 1.00 | 180.91 | 0.631 | No | No | 2.00 |
| 997 | 61.02 | 657.74 | 1.64 | 0.79 | 1.00 | 186.60 | 1.00 | 186.60 | 0.684 | No | No | 2.00 |
| 998 | 61.05 | 685.10 | 1.62 | 0.78 | 1.00 | 194.34 | 1.00 | 194.34 | 0.763 | No | No | 2.00 |
| 999 | 61.08 | 710.24 | 1.61 | 0.77 | 1.00 | 201.44 | 1.00 | 201.44 | 4.000 | No | No | 2.00 |
| 1000 | 61.09 | 731.84 | 1.59 | 0.76 | 1.00 | 207.57 | 1.00 | 207.57 | 4.000 | No | No | 2.00 |
| 1001 | 61.13 | 737.94 | 1.59 | 0.76 | 1.00 | 209.24 | 1.00 | 209.24 | 4.000 | No | No | 2.00 |
| 1002 | 61.14 | 739.46 | 1.60 | 0.77 | 1.00 | 209.63 | 1.00 | 209.63 | 4.000 | No | No | 2.00 |
| 1003 | 61.16 | 741.44 | 1.60 | 0.78 | 1.00 | 210.15 | 1.00 | 210.15 | 4.000 | No | No | 2.00 |
| 1004 | 61.20 | 750.88 | 1.58 | 0.75 | 1.00 | 212.77 | 1.00 | 212.77 | 4.000 | No | No | 2.00 |
| 1005 | 61.23 | 762.13 | 1.56 | 0.71 | 1.00 | 215.88 | 1.00 | 215.88 | 4.000 | No | No | 2.00 |
| 1006 | 61.24 | 766.92 | 1.52 | 0.62 | 1.00 | 217.23 | 1.00 | 217.23 | 4.000 | No | No | 2.00 |
| 1007 | 61.29 | 758.86 | 1.51 | 0.59 | 1.00 | 214.83 | 1.00 | 214.83 | 4.000 | No | No | 2.00 |
| 1008 | 61.30 | 744.24 | 1.52 | 0.59 | 1.00 | 210.65 | 1.00 | 210.65 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1009 | 61.33 | 734.57 | 1.55 | 0.65 | 1.00 | 207.82 | 1.00 | 207.82 | 4.000 | No | No | 2.00 |
| 1010 | 61.38 | 730.90 | 1.55 | 0.65 | 1.00 | 206.66 | 1.00 | 206.66 | 4.000 | No | No | 2.00 |
| 1011 | 61.43 | 731.07 | 1.53 | 0.60 | 1.00 | 206.60 | 1.00 | 206.60 | 4.000 | No | No | 2.00 |
| 1012 | 61.48 | 738.25 | 1.50 | 0.56 | 1.00 | 208.54 | 1.00 | 208.54 | 4.000 | No | No | 2.00 |
| 1013 | 61.53 | 750.91 | 1.48 | 0.53 | 1.00 | 212.02 | 1.00 | 212.02 | 4.000 | No | No | 2.00 |
| 1014 | 61.56 | 754.78 | 1.48 | 0.52 | 1.00 | 213.05 | 1.00 | 213.05 | 4.000 | No | No | 2.00 |
| 1015 | 61.58 | 726.93 | 1.50 | 0.54 | 1.00 | 205.10 | 1.00 | 205.10 | 4.000 | No | No | 2.00 |
| 1016 | 61.59 | 702.39 | 1.52 | 0.55 | 1.00 | 198.13 | 1.00 | 198.13 | 0.803 | No | No | 2.00 |
| 1017 | 61.62 | 600.70 | 1.61 | 0.64 | 1.00 | 169.24 | 1.00 | 169.24 | 0.531 | No | No | 2.00 |
| 1018 | 61.63 | 595.30 | 1.61 | 0.64 | 1.00 | 167.67 | 1.00 | 167.67 | 0.518 | No | No | 2.00 |
| 1019 | 61.67 | 588.36 | 1.62 | 0.64 | 1.00 | 165.65 | 1.00 | 165.65 | 0.503 | No | No | 2.00 |
| 1020 | 61.71 | 662.66 | 1.55 | 0.57 | 1.00 | 186.61 | 1.00 | 186.61 | 0.684 | No | No | 2.00 |
| 1021 | 61.76 | 655.52 | 1.55 | 0.57 | 1.00 | 184.50 | 1.00 | 184.50 | 0.664 | No | No | 2.00 |
| 1022 | 61.81 | 634.02 | 1.54 | 0.53 | 1.00 | 178.32 | 1.00 | 178.32 | 0.607 | No | No | 2.00 |
| 1023 | 61.86 | 615.02 | 1.52 | 0.48 | 1.00 | 172.85 | 1.00 | 172.85 | 0.560 | No | No | 2.00 |
| 1024 | 61.87 | 600.83 | 1.48 | 0.38 | 1.00 | 168.83 | 1.00 | 168.83 | 0.528 | No | No | 2.00 |
| 1025 | 61.91 | 588.87 | 1.44 | 0.32 | 1.00 | 165.39 | 1.00 | 165.39 | 0.501 | No | No | 2.00 |
| 1026 | 61.95 | 578.02 | 1.42 | 0.27 | 1.00 | 162.25 | 1.00 | 162.25 | 0.477 | No | No | 2.00 |
| 1027 | 61.96 | 566.74 | 1.42 | 0.26 | 1.00 | 159.04 | 1.00 | 159.04 | 0.454 | No | No | 2.00 |
| 1028 | 62.00 | 553.70 | 1.45 | 0.29 | 1.00 | 155.30 | 1.00 | 155.30 | 0.428 | No | No | 2.00 |
| 1029 | 62.04 | 535.16 | 1.49 | 0.33 | 1.00 | 150.01 | 1.00 | 150.01 | 0.394 | No | No | 2.00 |
| 1030 | 62.06 | 510.97 | 1.55 | 0.41 | 1.00 | 143.15 | 1.00 | 143.15 | 0.353 | No | No | 1.86 |
| 1031 | 62.10 | 491.66 | 1.60 | 0.47 | 1.00 | 137.65 | 1.00 | 137.65 | 0.323 | No | No | 1.70 |
| 1032 | 62.14 | 475.52 | 1.64 | 0.51 | 1.00 | 133.04 | 1.00 | 133.04 | 0.299 | No | No | 1.58 |
| 1033 | 62.20 | 463.08 | 1.66 | 0.55 | 1.00 | 129.46 | 1.00 | 129.46 | 0.282 | No | No | 1.49 |
| 1034 | 62.22 | 439.20 | 1.71 | 0.60 | 1.00 | 122.70 | 1.00 | 122.70 | 0.252 | No | No | 1.33 |
| 1035 | 62.27 | 415.48 | 1.75 | 0.66 | 1.00 | 115.96 | 1.08 | 125.13 | 0.262 | No | No | 1.39 |
| 1036 | 62.29 | 396.37 | 1.78 | 0.71 | 1.00 | 110.55 | 1.13 | 125.44 | 0.264 | No | No | 1.39 |
| 1037 | 62.34 | 380.26 | 1.82 | 0.77 | 1.00 | 105.96 | 1.17 | 124.22 | 0.258 | No | No | 1.37 |
| 1038 | 62.39 | 366.62 | 1.86 | 0.86 | 1.00 | 102.08 | 1.21 | 123.46 | 0.255 | No | No | 1.35 |
| 1039 | 62.43 | 347.78 | 1.93 | 1.03 | 1.00 | 96.73 | 1.26 | 121.51 | 0.247 | No | No | 1.31 |
| 1040 | 62.49 | 340.13 | 1.97 | 1.16 | 1.00 | 94.52 | 1.28 | 121.38 | 0.246 | No | No | 1.30 |
| 1041 | 62.57 | 336.43 | 1.99 | 1.25 | 1.00 | 93.40 | 1.30 | 121.70 | 0.248 | No | No | 1.31 |
| 1042 | 62.68 | 357.18 | 1.98 | 1.25 | 1.00 | 99.12 | 1.29 | 127.79 | 0.274 | No | No | 1.45 |
| 1043 | 62.75 | 398.26 | 1.93 | 1.21 | 1.00 | 110.56 | 1.26 | 139.12 | 0.330 | No | No | 1.75 |
| 1044 | 62.87 | 426.23 | 1.91 | 1.20 | 1.00 | 118.25 | 1.24 | 146.86 | 0.375 | No | No | 1.99 |
| 1045 | 62.88 | 409.21 | 1.93 | 1.22 | 1.00 | 113.48 | 1.25 | 142.25 | 0.348 | No | No | 1.84 |
| 1046 | 62.89 | 424.34 | 1.86 | 1.01 | 1.00 | 117.70 | 1.21 | 142.29 | 0.348 | No | No | 1.84 |
| 1047 | 62.93 | 485.42 | 1.74 | 0.76 | 1.00 | 134.75 | 1.06 | 142.80 | 0.351 | No | No | 1.86 |
| 1048 | 62.98 | 571.92 | 1.61 | 0.59 | 1.00 | 158.87 | 1.00 | 158.87 | 0.453 | No | No | 2.00 |
| 1049 | 63.02 | 620.24 | 1.47 | 0.38 | 1.00 | 172.30 | 1.00 | 172.30 | 0.556 | No | No | 2.00 |
| 1050 | 63.07 | 658.55 | 1.31 | 0.19 | 1.00 | 182.93 | 1.00 | 182.93 | 0.649 | No | No | 2.00 |
| 1051 | 63.12 | 710.78 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1052 | 63.14 | 752.36 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1053 | 63.17 | 781.30 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1054 | 63.17 | 799.36 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1055 | 63.20 | 825.98 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1056 | 63.21 | 830.83 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1057 | 63.23 | 842.91 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1058 | 63.26 | 834.75 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1059 | 63.28 | 841.52 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1060 | 63.31 | 838.10 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1061 | 63.32 | 839.38 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1062 | 63.36 | 837.12 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1063 | 63.40 | 836.85 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |

**Abbreviations**

Depth: Depth from free surface, at which CPT was performed (ft)
$q_t$: Total cone resistance
$I_c$: Soil behavior type index
Fr: Normalized friction ratio (%)
n: Stress exponent
$Q_{tn}$: Normalized cone resistance
$K_c$: Cone resistance correction factor due to fines
$Q_{tn,cs}$: Normalized and adjusted cone resistance
$CRR_{7.5}$: Cyclic resistance ratio for $M_w$=7.5
FS: Factor of safety against soil liquefaction

**:: Liquefaction Potential Index calculation data ::**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.01 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.04 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 0.09 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.11 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 0.14 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.14 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 0.18 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.23 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 0.24 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.28 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 0.33 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 0.42 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.47 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 0.51 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.52 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 0.57 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.61 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 0.67 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.73 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 0.81 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.86 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 0.98 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 | 1.05 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 1.15 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 1.24 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 1.34 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 1.43 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 1.53 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 1.58 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 1.62 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 1.67 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 1.75 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 1.77 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 1.81 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 1.86 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 1.91 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 1.95 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 2.00 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 2.05 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 2.11 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 2.20 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 2.24 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 2.29 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 2.34 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 2.44 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 2.48 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 2.58 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 2.63 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 2.71 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 2.78 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 2.82 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 2.89 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 2.96 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 3.03 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 3.11 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 3.19 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 3.25 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 3.35 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 3.41 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 3.50 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 3.59 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 3.69 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 3.79 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 3.88 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 3.97 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 4.07 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 4.14 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 4.17 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 4.26 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 4.32 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 4.37 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 4.42 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 4.51 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 4.61 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 4.65 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 4.74 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 4.80 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 4.89 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 4.95 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 5.04 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 5.13 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 5.18 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 5.28 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 5.32 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 5.42 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 5.51 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 5.60 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 5.66 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 5.76 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 5.85 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 5.92 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 5.95 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 5.97 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 6.02 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 6.06 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6.16 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 6.21 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 6.26 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 6.31 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 6.40 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 6.44 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 6.52 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 6.57 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 6.64 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 6.69 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 6.78 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 6.83 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 6.92 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 6.97 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 7.03 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 7.12 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 7.22 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 7.27 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 7.36 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 7.43 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 7.50 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 7.59 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 7.64 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 7.75 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 7.79 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 7.89 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 7.99 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 8.04 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 8.13 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 8.23 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 8.32 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 8.37 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 8.46 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 8.56 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 8.59 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 8.61 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 8.67 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 8.71 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 8.72 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 8.78 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 8.80 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 8.86 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 8.90 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 8.95 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 8.96 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 9.00 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 9.05 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 9.09 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 9.10 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 9.14 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 9.20 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 9.24 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 9.29 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 9.31 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 9.38 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 9.41 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 9.47 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 9.53 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 9.62 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 9.67 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 9.77 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 9.81 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 9.90 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 9.97 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 10.06 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 10.20 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 10.30 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 10.44 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 10.54 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 10.63 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 10.74 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 10.78 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 10.83 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 10.88 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 10.89 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 10.97 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 11.02 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 11.07 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 11.11 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 11.16 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 11.21 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 11.26 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 11.30 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 11.36 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 11.40 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 11.45 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 11.50 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 11.55 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 11.60 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 11.66 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 11.74 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 11.84 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 11.93 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 12.04 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 12.13 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 12.22 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12.27 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 12.37 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 12.41 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 12.51 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 12.56 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 12.65 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 12.71 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 12.79 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 12.89 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 12.96 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 13.04 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 13.13 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 13.23 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 13.30 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 13.37 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 13.47 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 13.57 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 13.61 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 13.62 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 13.68 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 13.73 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 13.77 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 13.87 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 13.93 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 14.00 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 14.06 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 14.12 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 14.21 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 14.25 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 14.35 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 14.45 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 14.50 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 14.59 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 14.64 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 14.74 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 14.80 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 14.88 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 14.97 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 15.05 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 15.13 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 15.21 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 15.28 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 15.36 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 15.41 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 15.50 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 15.55 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 15.65 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 15.71 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 15.79 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 15.89 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 15.90 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 15.94 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 16.00 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 16.06 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 16.14 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 16.19 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 16.26 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 16.33 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 16.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 16.47 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 16.54 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 16.62 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 16.70 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 16.76 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 16.86 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 16.90 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 16.98 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 17.05 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 17.14 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 17.20 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 17.29 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 17.34 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 17.44 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 17.50 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 17.58 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 17.64 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 17.75 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 17.82 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 17.89 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 17.89 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17.96 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 18.02 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 18.07 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 18.17 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 18.22 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 18.30 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 18.36 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 18.42 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 18.50 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 18.56 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 18.62 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 18.69 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 18.76 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 18.84 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 18.89 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 18.98 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 19.05 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 19.12 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 19.18 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 19.24 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 19.32 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 19.38 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 19.46 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 19.54 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 19.62 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 19.70 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 19.80 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 19.85 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 19.94 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 20.03 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 20.13 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 20.19 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 20.29 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 20.39 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 20.43 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 20.47 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 20.52 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 20.61 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 20.66 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 20.71 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 20.77 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 20.85 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 20.91 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 21.00 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 21.05 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 21.11 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 21.19 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 21.24 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 21.34 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 21.39 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 21.48 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 21.53 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 21.64 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 21.72 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 21.81 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 21.89 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 21.97 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 22.05 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 22.12 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 22.13 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 22.18 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 22.22 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 22.28 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 22.33 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 22.41 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 22.51 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 22.56 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.61 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 22.65 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 22.71 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 22.76 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 22.85 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 22.89 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.99 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 23.04 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 23.12 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 23.18 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 23.24 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 23.33 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 23.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 23.47 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 23.52 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 23.61 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 23.68 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 23.76 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 23.83 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 23.90 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 23.97 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 24.05 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 24.10 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 24.19 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 24.27 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 24.34 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 24.43 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 24.48 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 24.57 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 24.62 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 24.72 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 24.81 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 24.86 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 24.95 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 25.01 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 25.02 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 25.05 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 25.11 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 25.15 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 25.21 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 25.25 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 25.30 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 25.40 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 25.45 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.52 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 25.60 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 25.66 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 25.74 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 25.80 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 25.88 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 25.94 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 26.02 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 26.09 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 26.17 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 26.23 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 26.29 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 26.37 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 26.46 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 26.55 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 26.60 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 26.70 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 26.78 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 26.87 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 26.94 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 27.03 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 27.13 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 27.18 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 27.27 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 27.32 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 27.37 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 27.41 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 27.46 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 27.51 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 27.61 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 27.66 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 27.73 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 27.80 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 27.88 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 27.96 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 28.04 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 28.12 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 28.18 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 28.27 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 28.32 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 28.42 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 28.47 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 28.61 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 28.67 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 28.75 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 28.81 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 28.90 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 29.00 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 29.05 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 29.10 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 29.15 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 29.24 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 29.29 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 29.37 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 29.43 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 29.53 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 29.62 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 29.68 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 29.80 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 | 29.91 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 |
| 30.00 | 1.03 | 0.00 | 0.00 | 0.09 | 0.00 | 30.07 | 1.04 | 0.00 | 0.00 | 0.07 | 0.00 |
| 30.15 | 1.04 | 0.00 | 0.00 | 0.08 | 0.00 | 30.21 | 1.04 | 0.00 | 0.00 | 0.07 | 0.00 |
| 30.26 | 1.04 | 0.00 | 0.00 | 0.05 | 0.00 | 30.31 | 1.03 | 0.00 | 0.00 | 0.05 | 0.00 |
| 30.38 | 1.02 | 0.00 | 0.00 | 0.07 | 0.00 | 30.45 | 1.01 | 0.00 | 0.00 | 0.07 | 0.00 |
| 30.50 | 1.00 | 0.00 | 0.00 | 0.05 | 0.00 | 30.55 | 0.99 | 0.01 | 15219651494 | 0.05 | 0.00 |
| 30.64 | 0.97 | 0.03 | 956.57 | 0.09 | 0.00 | 30.70 | 0.94 | 0.06 | 33.53 | 0.05 | 0.00 |
| 30.79 | 0.93 | 0.07 | 12.83 | 0.09 | 0.01 | 30.84 | 0.91 | 0.09 | 8.56 | 0.05 | 0.01 |
| 30.93 | 0.91 | 0.09 | 7.83 | 0.09 | 0.01 | 30.98 | 0.91 | 0.09 | 7.97 | 0.05 | 0.01 |
| 31.05 | 0.92 | 0.08 | 11.40 | 0.06 | 0.01 | 31.13 | 0.94 | 0.06 | 32.36 | 0.08 | 0.01 |
| 31.17 | 0.98 | 0.02 | 54585.68 | 0.05 | 0.00 | 31.27 | 1.03 | 0.00 | 0.00 | 0.10 | 0.00 |
| 31.32 | 1.13 | 0.00 | 0.00 | 0.05 | 0.00 | 31.41 | 1.23 | 0.00 | 0.00 | 0.10 | 0.00 |
| 31.46 | 1.31 | 0.00 | 0.00 | 0.05 | 0.00 | 31.52 | 1.35 | 0.00 | 0.00 | 0.06 | 0.00 |
| 31.61 | 1.33 | 0.00 | 0.00 | 0.08 | 0.00 | 31.66 | 1.28 | 0.00 | 0.00 | 0.06 | 0.00 |
| 31.75 | 1.19 | 0.00 | 0.00 | 0.09 | 0.00 | 31.80 | 1.11 | 0.00 | 0.00 | 0.05 | 0.00 |
| 31.90 | 1.03 | 0.00 | 0.00 | 0.10 | 0.00 | 31.94 | 0.99 | 0.01 | 83727543.34 | 0.05 | 0.00 |
| 32.04 | 0.99 | 0.01 | 2535344.16 | 0.10 | 0.00 | 32.09 | 1.04 | 0.00 | 0.00 | 0.04 | 0.00 |
| 32.20 | 1.07 | 0.00 | 0.00 | 0.11 | 0.00 | 32.24 | 1.09 | 0.00 | 0.00 | 0.04 | 0.00 |
| 32.28 | 1.09 | 0.00 | 0.00 | 0.04 | 0.00 | 32.29 | 1.11 | 0.00 | 0.00 | 0.01 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 32.30 | 1.12 | 0.00 | 0.00 | 0.01 | 0.00 | 32.40 | 1.13 | 0.00 | 0.00 | 0.10 | 0.00 |
| 32.45 | 1.14 | 0.00 | 0.00 | 0.04 | 0.00 | 32.55 | 1.13 | 0.00 | 0.00 | 0.10 | 0.00 |
| 32.59 | 1.13 | 0.00 | 0.00 | 0.05 | 0.00 | 32.69 | 1.13 | 0.00 | 0.00 | 0.10 | 0.00 |
| 32.76 | 1.14 | 0.00 | 0.00 | 0.07 | 0.00 | 32.84 | 1.16 | 0.00 | 0.00 | 0.08 | 0.00 |
| 32.90 | 1.17 | 0.00 | 0.00 | 0.07 | 0.00 | 32.98 | 1.19 | 0.00 | 0.00 | 0.08 | 0.00 |
| 33.06 | 1.19 | 0.00 | 0.00 | 0.08 | 0.00 | 33.12 | 1.20 | 0.00 | 0.00 | 0.06 | 0.00 |
| 33.22 | 1.21 | 0.00 | 0.00 | 0.10 | 0.00 | 33.31 | 1.21 | 0.00 | 0.00 | 0.09 | 0.00 |
| 33.37 | 1.21 | 0.00 | 0.00 | 0.05 | 0.00 | 33.46 | 1.20 | 0.00 | 0.00 | 0.09 | 0.00 |
| 33.55 | 1.20 | 0.00 | 0.00 | 0.09 | 0.00 | 33.65 | 1.20 | 0.00 | 0.00 | 0.10 | 0.00 |
| 33.70 | 1.20 | 0.00 | 0.00 | 0.05 | 0.00 | 33.79 | 1.20 | 0.00 | 0.00 | 0.09 | 0.00 |
| 33.89 | 1.19 | 0.00 | 0.00 | 0.10 | 0.00 | 33.99 | 1.18 | 0.00 | 0.00 | 0.09 | 0.00 |
| 34.04 | 1.16 | 0.00 | 0.00 | 0.05 | 0.00 | 34.13 | 1.15 | 0.00 | 0.00 | 0.09 | 0.00 |
| 34.23 | 1.13 | 0.00 | 0.00 | 0.10 | 0.00 | 34.32 | 1.12 | 0.00 | 0.00 | 0.09 | 0.00 |
| 34.37 | 1.11 | 0.00 | 0.00 | 0.05 | 0.00 | 34.47 | 1.11 | 0.00 | 0.00 | 0.10 | 0.00 |
| 34.55 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 34.63 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 34.73 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 34.80 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 34.90 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 35.00 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 35.12 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 35.20 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 35.33 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 35.41 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 35.44 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 35.48 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 35.57 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 35.62 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 35.67 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 35.71 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 35.82 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 35.86 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 35.93 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 36.01 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 36.06 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 36.12 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 36.18 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 36.25 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 36.30 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 36.39 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 36.44 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 36.53 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 36.59 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 36.68 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 36.75 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 36.83 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 36.90 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 36.97 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 37.02 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 37.04 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 37.08 | 1.93 | 0.00 | 0.00 | 0.04 | 0.00 | 37.17 | 1.96 | 0.00 | 0.00 | 0.09 | 0.00 |
| 37.27 | 1.85 | 0.00 | 0.00 | 0.10 | 0.00 | 37.37 | 1.72 | 0.00 | 0.00 | 0.09 | 0.00 |
| 37.42 | 1.62 | 0.00 | 0.00 | 0.05 | 0.00 | 37.51 | 1.57 | 0.00 | 0.00 | 0.09 | 0.00 |
| 37.58 | 1.56 | 0.00 | 0.00 | 0.07 | 0.00 | 37.66 | 1.57 | 0.00 | 0.00 | 0.07 | 0.00 |
| 37.76 | 1.59 | 0.00 | 0.00 | 0.10 | 0.00 | 37.85 | 1.62 | 0.00 | 0.00 | 0.09 | 0.00 |
| 37.93 | 1.64 | 0.00 | 0.00 | 0.08 | 0.00 | 38.04 | 1.66 | 0.00 | 0.00 | 0.11 | 0.00 |
| 38.13 | 1.67 | 0.00 | 0.00 | 0.09 | 0.00 | 38.18 | 1.67 | 0.00 | 0.00 | 0.05 | 0.00 |
| 38.28 | 1.65 | 0.00 | 0.00 | 0.10 | 0.00 | 38.37 | 1.61 | 0.00 | 0.00 | 0.09 | 0.00 |
| 38.47 | 1.57 | 0.00 | 0.00 | 0.09 | 0.00 | 38.57 | 1.53 | 0.00 | 0.00 | 0.10 | 0.00 |
| 38.62 | 1.49 | 0.00 | 0.00 | 0.04 | 0.00 | 38.72 | 1.37 | 0.00 | 0.00 | 0.10 | 0.00 |
| 38.78 | 1.29 | 0.00 | 0.00 | 0.06 | 0.00 | 38.81 | 1.24 | 0.00 | 0.00 | 0.02 | 0.00 |
| 38.86 | 1.24 | 0.00 | 0.00 | 0.05 | 0.00 | 38.91 | 1.22 | 0.00 | 0.00 | 0.05 | 0.00 |
| 38.95 | 1.18 | 0.00 | 0.00 | 0.05 | 0.00 | 39.05 | 1.15 | 0.00 | 0.00 | 0.10 | 0.00 |
| 39.09 | 1.12 | 0.00 | 0.00 | 0.05 | 0.00 | 39.14 | 1.11 | 0.00 | 0.00 | 0.05 | 0.00 |
| 39.24 | 1.10 | 0.00 | 0.00 | 0.10 | 0.00 | 39.29 | 1.09 | 0.00 | 0.00 | 0.05 | 0.00 |
| 39.39 | 1.10 | 0.00 | 0.00 | 0.10 | 0.00 | 39.43 | 1.10 | 0.00 | 0.00 | 0.05 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39.53 | 1.09 | 0.00 | 0.00 | 0.10 | 0.00 | 39.57 | 1.08 | 0.00 | 0.00 | 0.04 | 0.00 |
| 39.68 | 1.09 | 0.00 | 0.00 | 0.10 | 0.00 | 39.73 | 1.08 | 0.00 | 0.00 | 0.05 | 0.00 |
| 39.81 | 1.06 | 0.00 | 0.00 | 0.08 | 0.00 | 39.89 | 1.01 | 0.00 | 0.00 | 0.08 | 0.00 |
| 39.96 | 0.95 | 0.05 | 61.50 | 0.07 | 0.00 | 40.06 | 0.91 | 0.09 | 7.89 | 0.10 | 0.01 |
| 40.15 | 0.90 | 0.10 | 5.93 | 0.09 | 0.01 | 40.20 | 0.89 | 0.11 | 5.36 | 0.06 | 0.01 |
| 40.24 | 0.90 | 0.10 | 6.39 | 0.04 | 0.00 | 40.26 | 0.91 | 0.09 | 8.01 | 0.01 | 0.00 |
| 40.27 | 0.91 | 0.09 | 8.48 | 0.02 | 0.00 | 40.37 | 0.92 | 0.08 | 10.34 | 0.09 | 0.01 |
| 40.42 | 0.93 | 0.07 | 17.38 | 0.05 | 0.00 | 40.52 | 0.94 | 0.06 | 31.57 | 0.10 | 0.01 |
| 40.56 | 0.96 | 0.04 | 178.66 | 0.04 | 0.00 | 40.66 | 0.99 | 0.01 | 470504.39 | 0.10 | 0.00 |
| 40.70 | 1.03 | 0.00 | 0.00 | 0.05 | 0.00 | 40.75 | 1.10 | 0.00 | 0.00 | 0.05 | 0.00 |
| 40.85 | 1.20 | 0.00 | 0.00 | 0.10 | 0.00 | 40.91 | 1.31 | 0.00 | 0.00 | 0.06 | 0.00 |
| 40.96 | 1.43 | 0.00 | 0.00 | 0.05 | 0.00 | 41.04 | 1.55 | 0.00 | 0.00 | 0.08 | 0.00 |
| 41.09 | 1.70 | 0.00 | 0.00 | 0.05 | 0.00 | 41.18 | 1.83 | 0.00 | 0.00 | 0.09 | 0.00 |
| 41.23 | 1.94 | 0.00 | 0.00 | 0.05 | 0.00 | 41.29 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 41.38 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 41.42 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 41.52 | 1.96 | 0.00 | 0.00 | 0.10 | 0.00 | 41.57 | 1.91 | 0.00 | 0.00 | 0.05 | 0.00 |
| 41.62 | 1.87 | 0.00 | 0.00 | 0.05 | 0.00 | 41.71 | 1.84 | 0.00 | 0.00 | 0.09 | 0.00 |
| 41.76 | 1.82 | 0.00 | 0.00 | 0.04 | 0.00 | 41.84 | 1.81 | 0.00 | 0.00 | 0.09 | 0.00 |
| 41.91 | 1.81 | 0.00 | 0.00 | 0.07 | 0.00 | 41.95 | 1.82 | 0.00 | 0.00 | 0.05 | 0.00 |
| 42.01 | 1.85 | 0.00 | 0.00 | 0.06 | 0.00 | 42.10 | 1.88 | 0.00 | 0.00 | 0.08 | 0.00 |
| 42.15 | 1.92 | 0.00 | 0.00 | 0.05 | 0.00 | 42.24 | 1.96 | 0.00 | 0.00 | 0.09 | 0.00 |
| 42.28 | 1.97 | 0.00 | 0.00 | 0.04 | 0.00 | 42.39 | 1.95 | 0.00 | 0.00 | 0.10 | 0.00 |
| 42.43 | 1.93 | 0.00 | 0.00 | 0.04 | 0.00 | 42.50 | 1.91 | 0.00 | 0.00 | 0.07 | 0.00 |
| 42.58 | 1.88 | 0.00 | 0.00 | 0.08 | 0.00 | 42.65 | 1.74 | 0.00 | 0.00 | 0.07 | 0.00 |
| 42.70 | 1.68 | 0.00 | 0.00 | 0.06 | 0.00 | 42.73 | 1.64 | 0.00 | 0.00 | 0.02 | 0.00 |
| 42.77 | 1.73 | 0.00 | 0.00 | 0.04 | 0.00 | 42.82 | 1.78 | 0.00 | 0.00 | 0.05 | 0.00 |
| 42.87 | 1.86 | 0.00 | 0.00 | 0.05 | 0.00 | 42.91 | 1.97 | 0.00 | 0.00 | 0.04 | 0.00 |
| 42.97 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 43.02 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 43.06 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 43.11 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 43.17 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 43.21 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 43.29 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 43.34 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 43.39 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 43.45 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 43.51 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 43.59 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 43.64 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 43.70 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 43.78 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 43.88 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 43.94 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 44.04 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 44.07 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 44.12 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 44.16 | 1.98 | 0.00 | 0.00 | 0.04 | 0.00 | 44.21 | 1.92 | 0.00 | 0.00 | 0.05 | 0.00 |
| 44.26 | 1.86 | 0.00 | 0.00 | 0.05 | 0.00 | 44.31 | 1.79 | 0.00 | 0.00 | 0.05 | 0.00 |
| 44.35 | 1.73 | 0.00 | 0.00 | 0.04 | 0.00 | 44.40 | 1.67 | 0.00 | 0.00 | 0.05 | 0.00 |
| 44.45 | 1.62 | 0.00 | 0.00 | 0.05 | 0.00 | 44.50 | 1.59 | 0.00 | 0.00 | 0.05 | 0.00 |
| 44.54 | 1.56 | 0.00 | 0.00 | 0.04 | 0.00 | 44.60 | 1.53 | 0.00 | 0.00 | 0.06 | 0.00 |
| 44.64 | 1.50 | 0.00 | 0.00 | 0.05 | 0.00 | 44.69 | 1.48 | 0.00 | 0.00 | 0.05 | 0.00 |
| 44.74 | 1.47 | 0.00 | 0.00 | 0.05 | 0.00 | 44.79 | 1.47 | 0.00 | 0.00 | 0.04 | 0.00 |
| 44.83 | 1.47 | 0.00 | 0.00 | 0.05 | 0.00 | 44.88 | 1.48 | 0.00 | 0.00 | 0.05 | 0.00 |
| 44.93 | 1.51 | 0.00 | 0.00 | 0.05 | 0.00 | 44.98 | 1.54 | 0.00 | 0.00 | 0.05 | 0.00 |
| 45.03 | 1.56 | 0.00 | 0.00 | 0.05 | 0.00 | 45.08 | 1.57 | 0.00 | 0.00 | 0.06 | 0.00 |
| 45.16 | 1.58 | 0.00 | 0.00 | 0.08 | 0.00 | 45.19 | 1.58 | 0.00 | 0.00 | 0.03 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 45.27 | 1.57 | 0.00 | 0.00 | 0.08 | 0.00 | 45.32 | 1.55 | 0.00 | 0.00 | 0.05 | 0.00 |
| 45.37 | 1.50 | 0.00 | 0.00 | 0.05 | 0.00 | 45.45 | 1.44 | 0.00 | 0.00 | 0.09 | 0.00 |
| 45.51 | 1.35 | 0.00 | 0.00 | 0.05 | 0.00 | 45.56 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 45.61 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 45.69 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 45.75 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 45.81 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 45.89 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 45.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 46.04 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 46.08 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 46.15 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 46.17 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 46.18 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 46.23 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 46.27 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 46.32 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 46.41 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 46.47 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 46.52 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 46.56 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 46.65 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 46.71 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 46.76 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 46.85 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 46.90 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 46.99 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 47.04 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 47.10 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 47.16 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 47.23 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 47.30 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 47.38 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 47.43 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 47.52 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 47.59 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 47.66 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 47.77 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 47.82 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 47.91 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 47.93 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 47.97 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 48.02 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 48.07 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 48.12 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 48.19 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 48.23 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 48.31 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 48.35 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 48.40 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 48.45 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 48.50 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 48.55 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 48.59 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 48.67 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 48.73 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 48.78 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 48.83 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 48.91 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 48.98 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 49.03 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 49.12 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 49.17 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 49.27 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 49.31 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 49.38 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 49.45 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 49.51 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 49.54 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 49.59 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 49.64 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 49.73 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 49.83 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 49.92 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 49.98 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 50.07 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 50.16 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 50.24 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 50.32 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 50.41 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 50.50 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 50.56 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 50.66 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 50.74 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 50.84 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 50.93 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 50.98 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 51.08 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 51.17 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 51.24 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 51.34 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 51.41 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 51.51 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 51.58 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 51.68 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 51.79 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 51.82 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 51.85 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 51.91 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 52.00 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 52.05 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 52.10 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 52.19 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 52.28 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 52.34 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 52.42 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 52.48 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 52.57 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 52.62 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 52.69 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 52.77 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 52.87 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 52.91 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 53.01 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 53.10 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 53.16 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 53.25 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 53.29 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 53.38 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 53.42 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 53.47 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 53.52 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 53.58 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 53.66 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 53.75 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 53.81 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 53.87 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 53.95 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 54.01 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 54.06 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 54.15 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 54.20 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 54.29 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 54.34 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 54.43 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 54.45 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 54.48 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 54.52 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 54.53 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 54.58 | 0.75 | 0.25 | 1.21 | 0.05 | 0.01 | 54.62 | 0.80 | 0.20 | 1.63 | 0.04 | 0.00 |
| 54.65 | 0.84 | 0.16 | 2.38 | 0.03 | 0.00 | 54.70 | 0.88 | 0.12 | 4.34 | 0.04 | 0.00 |
| 54.76 | 0.92 | 0.08 | 9.38 | 0.06 | 0.00 | 54.77 | 0.92 | 0.08 | 12.33 | 0.01 | 0.00 |
| 54.82 | 0.93 | 0.07 | 15.78 | 0.05 | 0.00 | 54.87 | 0.94 | 0.06 | 21.07 | 0.05 | 0.00 |
| 54.88 | 0.94 | 0.06 | 33.79 | 0.01 | 0.00 | 54.91 | 0.95 | 0.05 | 61.01 | 0.03 | 0.00 |
| 54.96 | 0.98 | 0.02 | 4897.12 | 0.05 | 0.00 | 54.97 | 1.04 | 0.00 | 0.00 | 0.01 | 0.00 |
| 55.03 | 1.14 | 0.00 | 0.00 | 0.06 | 0.00 | 55.09 | 1.25 | 0.00 | 0.00 | 0.06 | 0.00 |
| 55.15 | 1.26 | 0.00 | 0.00 | 0.06 | 0.00 | 55.20 | 1.28 | 0.00 | 0.00 | 0.05 | 0.00 |
| 55.25 | 1.26 | 0.00 | 0.00 | 0.05 | 0.00 | 55.30 | 1.44 | 0.00 | 0.00 | 0.05 | 0.00 |
| 55.34 | 1.57 | 0.00 | 0.00 | 0.05 | 0.00 | 55.39 | 1.89 | 0.00 | 0.00 | 0.04 | 0.00 |
| 55.40 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 55.44 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 55.44 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 55.49 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 55.54 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 55.59 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 55.63 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 55.64 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 55.68 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 55.69 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 55.69 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 55.71 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 55.76 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 55.78 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 55.81 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 55.85 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 55.86 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 55.91 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 55.92 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 55.96 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 55.97 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 56.00 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 56.01 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 56.03 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 56.05 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 56.10 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.12 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 56.16 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 56.17 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 56.20 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 56.22 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 56.24 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 56.30 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 56.31 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 56.34 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 56.39 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.45 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 56.48 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 56.49 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 56.53 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 56.58 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 56.63 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.68 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 56.73 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.78 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 56.83 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.89 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 56.95 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 56.99 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 57.01 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 57.04 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 57.09 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 57.11 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 57.13 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 57.18 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 57.19 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 57.21 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 57.24 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 57.28 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 57.32 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 57.35 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 57.38 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 57.43 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 57.48 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 57.52 | 1.85 | 0.00 | 0.00 | 0.05 | 0.00 | 57.57 | 1.80 | 0.00 | 0.00 | 0.05 | 0.00 |
| 57.62 | 1.93 | 0.00 | 0.00 | 0.05 | 0.00 | 57.68 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 57.76 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 57.81 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 57.86 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 57.89 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 57.91 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 57.92 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 57.95 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 57.99 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 58.01 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 58.05 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 58.05 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 58.10 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 58.13 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 58.15 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 58.17 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 58.20 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 58.21 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 58.21 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 58.23 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 58.24 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 58.25 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 58.29 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 58.31 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 58.33 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 58.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 58.39 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 58.43 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 58.43 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 58.48 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 58.53 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 58.56 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 58.58 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 58.59 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 58.63 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 58.63 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 | 58.63 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 58.68 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 58.69 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 58.72 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 58.73 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 58.74 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 58.77 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 58.81 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 58.82 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 58.83 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 58.87 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 58.91 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 58.92 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 58.93 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 58.96 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 59.01 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 59.06 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 59.08 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 59.11 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 59.15 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 59.21 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 59.26 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 59.30 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 59.35 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 59.40 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 59.42 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 59.47 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 59.51 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 59.56 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 59.61 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 59.67 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 59.71 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 59.80 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 59.85 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 59.90 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 60.00 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 60.04 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 60.10 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 60.15 | 1.91 | 0.00 | 0.00 | 0.05 | 0.00 |
| 60.19 | 1.73 | 0.00 | 0.00 | 0.03 | 0.00 | 60.23 | 1.70 | 0.00 | 0.00 | 0.05 | 0.00 |
| 60.28 | 1.69 | 0.00 | 0.00 | 0.05 | 0.00 | 60.33 | 1.74 | 0.00 | 0.00 | 0.05 | 0.00 |
| 60.38 | 1.77 | 0.00 | 0.00 | 0.04 | 0.00 | 60.42 | 1.78 | 0.00 | 0.00 | 0.04 | 0.00 |
| 60.44 | 1.76 | 0.00 | 0.00 | 0.02 | 0.00 | 60.47 | 1.93 | 0.00 | 0.00 | 0.02 | 0.00 |
| 60.52 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 60.56 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 60.57 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 60.61 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 60.66 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 60.71 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 60.76 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 60.81 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 60.86 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 60.91 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 60.95 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 61.00 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 61.02 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 61.05 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 61.08 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 61.09 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 61.13 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 61.14 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 61.16 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 61.20 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 61.23 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 61.24 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 61.29 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 61.30 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 61.33 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 61.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 61.43 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 61.48 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 61.53 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 61.56 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 61.58 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 61.59 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 61.62 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 61.63 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 61.67 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 61.71 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 61.76 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 61.81 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 61.86 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 61.87 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 61.91 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 61.95 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 61.96 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 62.00 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 62.04 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 62.06 | 1.86 | 0.00 | 0.00 | 0.02 | 0.00 |
| 62.10 | 1.70 | 0.00 | 0.00 | 0.04 | 0.00 | 62.14 | 1.58 | 0.00 | 0.00 | 0.04 | 0.00 |
| 62.20 | 1.49 | 0.00 | 0.00 | 0.05 | 0.00 | 62.22 | 1.33 | 0.00 | 0.00 | 0.02 | 0.00 |
| 62.27 | 1.39 | 0.00 | 0.00 | 0.05 | 0.00 | 62.29 | 1.39 | 0.00 | 0.00 | 0.02 | 0.00 |
| 62.34 | 1.37 | 0.00 | 0.00 | 0.05 | 0.00 | 62.39 | 1.35 | 0.00 | 0.00 | 0.04 | 0.00 |
| 62.43 | 1.31 | 0.00 | 0.00 | 0.05 | 0.00 | 62.49 | 1.30 | 0.00 | 0.00 | 0.06 | 0.00 |
| 62.57 | 1.31 | 0.00 | 0.00 | 0.08 | 0.00 | 62.68 | 1.45 | 0.00 | 0.00 | 0.10 | 0.00 |
| 62.75 | 1.75 | 0.00 | 0.00 | 0.08 | 0.00 | 62.87 | 1.99 | 0.00 | 0.00 | 0.12 | 0.00 |
| 62.88 | 1.84 | 0.00 | 0.00 | 0.01 | 0.00 | 62.89 | 1.84 | 0.00 | 0.00 | 0.01 | 0.00 |
| 62.93 | 1.86 | 0.00 | 0.00 | 0.04 | 0.00 | 62.98 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 63.02 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 63.07 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 63.12 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 63.14 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 63.17 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 63.17 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 63.20 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 63.21 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 63.23 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 63.26 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 63.28 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 63.31 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 63.32 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 63.36 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 63.40 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | | | | | | |

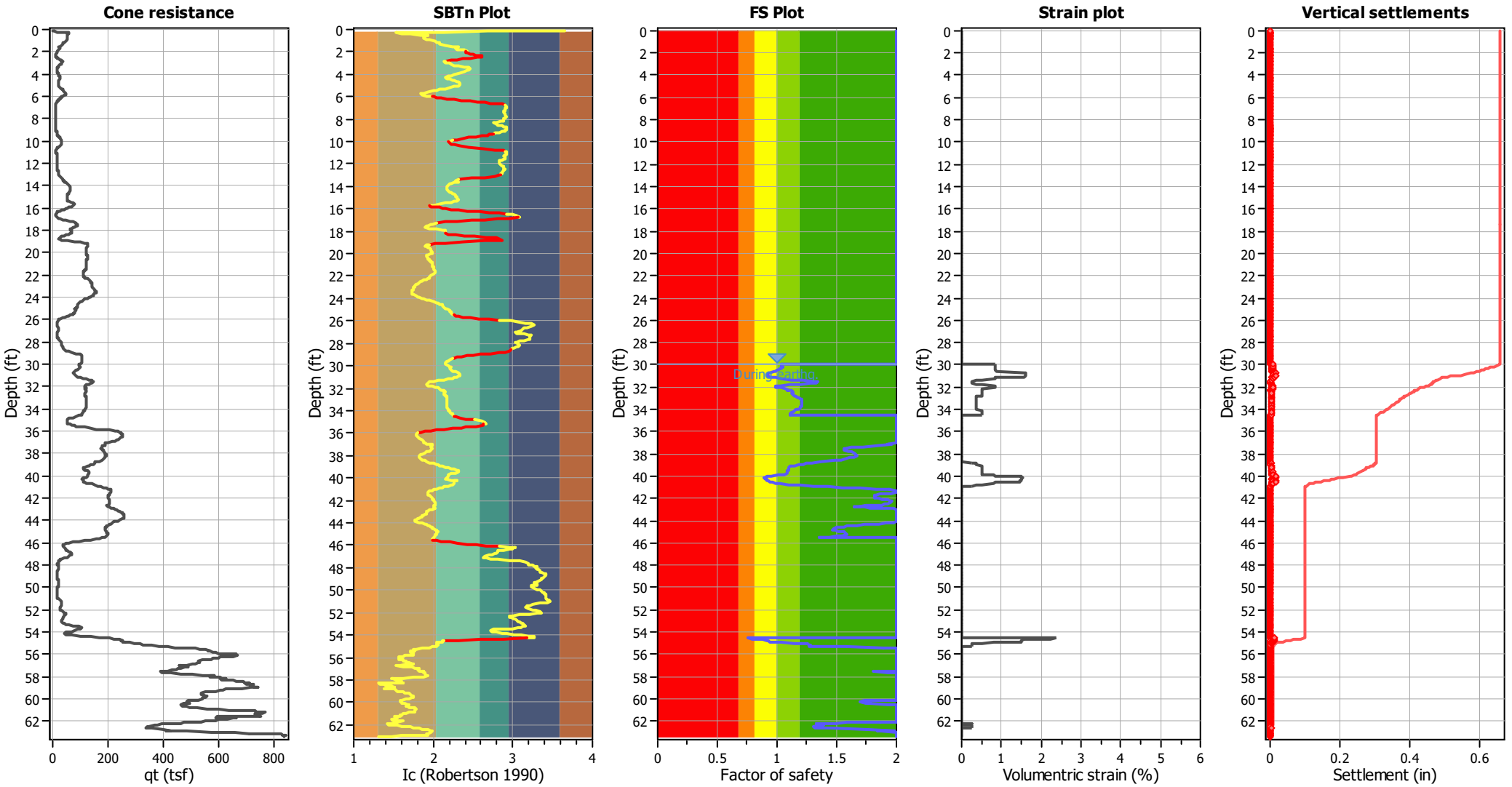
**Overall liquefaction potential: 0.15**

LPI = 0.00 - Liquefaction risk very low
LPI between 0.00 and 5.00 - Liquefaction risk low
LPI between 5.00 and 15.00 - Liquefaction risk high
LPI > 15.00 - Liquefaction risk very high

**Abbreviations**

FS: Calculated factor of safety for test point
$F_L$: 1 - FS
$w_z$: Function value of the extend of soil liquefaction according to depth
$d_z$: Layer thickness (ft)
LPI: Liquefaction potential index value for test point

## Estimation of post-earthquake settlements




**Abbreviations**

| | |
|---|---|
| $q_t$: | Total cone resistance (cone resistance $q_c$ corrected for pore water effects) |
| $I_c$: | Soil Behaviour Type Index |
| FS: | Calculated Factor of Safety against liquefaction |
| Volumentric strain: | Post-liquefaction volumentric strain |

**:: Post-earthquake settlement due to soil liquefaction ::**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 30.00 | 104.86 | 1.03 | 0.85 | 1.00 | 0.01 | 30.07 | 105.36 | 1.04 | 0.84 | 1.00 | 0.01 |
| 30.15 | 105.54 | 1.04 | 0.84 | 1.00 | 0.01 | 30.21 | 105.77 | 1.04 | 0.84 | 1.00 | 0.01 |
| 30.26 | 105.66 | 1.04 | 0.84 | 1.00 | 0.00 | 30.31 | 105.39 | 1.03 | 0.84 | 1.00 | 0.00 |
| 30.38 | 104.86 | 1.02 | 0.85 | 1.00 | 0.01 | 30.45 | 104.23 | 1.01 | 0.85 | 1.00 | 0.01 |
| 30.50 | 103.72 | 1.00 | 0.85 | 1.00 | 0.00 | 30.55 | 102.88 | 0.99 | 0.86 | 1.00 | 0.01 |
| 30.64 | 101.83 | 0.97 | 0.87 | 1.00 | 0.01 | 30.70 | 100.16 | 0.94 | 1.56 | 1.00 | 0.01 |
| 30.79 | 98.96 | 0.93 | 1.59 | 1.00 | 0.02 | 30.84 | 98.19 | 0.91 | 1.61 | 1.00 | 0.01 |
| 30.93 | 98.05 | 0.91 | 1.61 | 1.00 | 0.02 | 30.98 | 98.14 | 0.91 | 1.61 | 1.00 | 0.01 |
| 31.05 | 98.98 | 0.92 | 1.59 | 1.00 | 0.01 | 31.13 | 100.51 | 0.94 | 1.56 | 1.00 | 0.01 |
| 31.17 | 102.97 | 0.98 | 0.86 | 1.00 | 0.00 | 31.27 | 106.25 | 1.03 | 0.84 | 1.00 | 0.01 |
| 31.32 | 111.37 | 1.13 | 0.51 | 1.00 | 0.00 | 31.41 | 116.56 | 1.23 | 0.36 | 1.00 | 0.00 |
| 31.46 | 120.72 | 1.31 | 0.25 | 1.00 | 0.00 | 31.52 | 122.24 | 1.35 | 0.25 | 1.00 | 0.00 |
| 31.61 | 121.83 | 1.33 | 0.25 | 1.00 | 0.00 | 31.66 | 119.20 | 1.28 | 0.26 | 1.00 | 0.00 |
| 31.75 | 115.29 | 1.19 | 0.37 | 1.00 | 0.00 | 31.80 | 110.68 | 1.11 | 0.52 | 1.00 | 0.00 |
| 31.90 | 106.52 | 1.03 | 0.83 | 1.00 | 0.01 | 31.94 | 104.07 | 0.99 | 0.85 | 1.00 | 0.00 |
| 32.04 | 104.00 | 0.99 | 0.85 | 1.00 | 0.01 | 32.09 | 107.23 | 1.04 | 0.83 | 1.00 | 0.00 |
| 32.20 | 109.06 | 1.07 | 0.52 | 1.00 | 0.01 | 32.24 | 110.44 | 1.09 | 0.52 | 1.00 | 0.00 |
| 32.28 | 110.26 | 1.09 | 0.52 | 1.00 | 0.00 | 32.29 | 111.09 | 1.11 | 0.51 | 1.00 | 0.00 |
| 32.30 | 112.06 | 1.12 | 0.51 | 1.00 | 0.00 | 32.40 | 112.71 | 1.13 | 0.51 | 1.00 | 0.01 |
| 32.45 | 112.95 | 1.14 | 0.51 | 1.00 | 0.00 | 32.55 | 112.51 | 1.13 | 0.51 | 1.00 | 0.01 |
| 32.59 | 112.50 | 1.13 | 0.51 | 1.00 | 0.00 | 32.69 | 112.79 | 1.13 | 0.51 | 1.00 | 0.01 |
| 32.76 | 113.51 | 1.14 | 0.51 | 1.00 | 0.00 | 32.84 | 114.35 | 1.16 | 0.37 | 1.00 | 0.00 |
| 32.90 | 115.19 | 1.17 | 0.37 | 1.00 | 0.00 | 32.98 | 115.83 | 1.19 | 0.37 | 1.00 | 0.00 |
| 33.06 | 116.33 | 1.19 | 0.36 | 1.00 | 0.00 | 33.12 | 116.77 | 1.20 | 0.36 | 1.00 | 0.00 |
| 33.22 | 117.03 | 1.21 | 0.36 | 1.00 | 0.00 | 33.31 | 117.14 | 1.21 | 0.36 | 1.00 | 0.00 |
| 33.37 | 117.11 | 1.21 | 0.36 | 1.00 | 0.00 | 33.46 | 117.00 | 1.20 | 0.36 | 1.00 | 0.00 |
| 33.55 | 117.00 | 1.20 | 0.36 | 1.00 | 0.00 | 33.65 | 117.07 | 1.20 | 0.36 | 1.00 | 0.00 |
| 33.70 | 117.18 | 1.20 | 0.36 | 1.00 | 0.00 | 33.79 | 117.10 | 1.20 | 0.36 | 1.00 | 0.00 |
| 33.89 | 116.76 | 1.19 | 0.36 | 1.00 | 0.00 | 33.99 | 116.20 | 1.18 | 0.36 | 1.00 | 0.00 |
| 34.04 | 115.43 | 1.16 | 0.37 | 1.00 | 0.00 | 34.13 | 114.59 | 1.15 | 0.50 | 1.00 | 0.01 |
| 34.23 | 113.76 | 1.13 | 0.51 | 1.00 | 0.01 | 34.32 | 113.20 | 1.12 | 0.51 | 1.00 | 0.01 |
| 34.37 | 112.84 | 1.11 | 0.51 | 1.00 | 0.00 | 34.47 | 112.69 | 1.11 | 0.51 | 1.00 | 0.01 |
| 34.55 | 112.96 | 2.00 | 0.00 | 1.00 | 0.00 | 34.63 | 114.64 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.73 | 118.21 | 2.00 | 0.00 | 1.00 | 0.00 | 34.80 | 123.59 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.90 | 127.28 | 2.00 | 0.00 | 1.00 | 0.00 | 35.00 | 121.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.12 | 117.31 | 2.00 | 0.00 | 1.00 | 0.00 | 35.20 | 112.19 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.33 | 114.42 | 2.00 | 0.00 | 1.00 | 0.00 | 35.41 | 110.34 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.44 | 108.02 | 2.00 | 0.00 | 1.00 | 0.00 | 35.48 | 103.82 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.57 | 101.05 | 2.00 | 0.00 | 1.00 | 0.00 | 35.62 | 98.99 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.67 | 102.07 | 2.00 | 0.00 | 1.00 | 0.00 | 35.71 | 112.52 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.82 | 126.36 | 2.00 | 0.00 | 1.00 | 0.00 | 35.86 | 143.07 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.93 | 156.85 | 2.00 | 0.00 | 1.00 | 0.00 | 36.01 | 166.33 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.06 | 171.69 | 2.00 | 0.00 | 1.00 | 0.00 | 36.12 | 174.89 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.18 | 178.20 | 2.00 | 0.00 | 1.00 | 0.00 | 36.25 | 180.98 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.30 | 184.12 | 2.00 | 0.00 | 1.00 | 0.00 | 36.39 | 185.99 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.44 | 187.57 | 2.00 | 0.00 | 1.00 | 0.00 | 36.53 | 187.51 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.59 | 187.43 | 2.00 | 0.00 | 1.00 | 0.00 | 36.68 | 184.49 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.75 | 180.99 | 2.00 | 0.00 | 1.00 | 0.00 | 36.83 | 175.91 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 36.90 | 171.34 | 2.00 | 0.00 | 1.00 | 0.00 | 36.97 | 166.05 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.02 | 156.23 | 2.00 | 0.00 | 1.00 | 0.00 | 37.04 | 151.13 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.08 | 147.61 | 1.93 | 0.00 | 1.00 | 0.00 | 37.17 | 148.65 | 1.96 | 0.00 | 1.00 | 0.00 |
| 37.27 | 145.04 | 1.85 | 0.00 | 1.00 | 0.00 | 37.37 | 140.68 | 1.72 | 0.00 | 1.00 | 0.00 |
| 37.42 | 137.22 | 1.62 | 0.00 | 1.00 | 0.00 | 37.51 | 135.25 | 1.57 | 0.00 | 1.00 | 0.00 |
| 37.58 | 134.76 | 1.56 | 0.00 | 1.00 | 0.00 | 37.66 | 135.08 | 1.57 | 0.00 | 1.00 | 0.00 |
| 37.76 | 136.26 | 1.59 | 0.00 | 1.00 | 0.00 | 37.85 | 137.18 | 1.62 | 0.00 | 1.00 | 0.00 |
| 37.93 | 138.14 | 1.64 | 0.00 | 1.00 | 0.00 | 38.04 | 138.80 | 1.66 | 0.00 | 1.00 | 0.00 |
| 38.13 | 139.30 | 1.67 | 0.00 | 1.00 | 0.00 | 38.18 | 139.16 | 1.67 | 0.00 | 1.00 | 0.00 |
| 38.28 | 138.51 | 1.65 | 0.00 | 1.00 | 0.00 | 38.37 | 137.08 | 1.61 | 0.00 | 1.00 | 0.00 |
| 38.47 | 135.63 | 1.57 | 0.00 | 1.00 | 0.00 | 38.57 | 134.14 | 1.53 | 0.00 | 1.00 | 0.00 |
| 38.62 | 132.48 | 1.49 | 0.00 | 1.00 | 0.00 | 38.72 | 127.27 | 1.37 | 0.00 | 1.00 | 0.00 |
| 38.78 | 123.72 | 1.29 | 0.25 | 1.00 | 0.00 | 38.81 | 121.63 | 1.24 | 0.35 | 1.00 | 0.00 |
| 38.86 | 121.68 | 1.24 | 0.35 | 1.00 | 0.00 | 38.91 | 120.51 | 1.22 | 0.36 | 1.00 | 0.00 |
| 38.95 | 118.55 | 1.18 | 0.36 | 1.00 | 0.00 | 39.05 | 116.91 | 1.15 | 0.50 | 1.00 | 0.01 |
| 39.09 | 115.64 | 1.12 | 0.50 | 1.00 | 0.00 | 39.14 | 114.83 | 1.11 | 0.50 | 1.00 | 0.00 |
| 39.24 | 114.32 | 1.10 | 0.51 | 1.00 | 0.01 | 39.29 | 114.03 | 1.09 | 0.51 | 1.00 | 0.00 |
| 39.39 | 114.16 | 1.10 | 0.51 | 1.00 | 0.01 | 39.43 | 114.28 | 1.10 | 0.51 | 1.00 | 0.00 |
| 39.53 | 113.89 | 1.09 | 0.51 | 1.00 | 0.01 | 39.57 | 113.55 | 1.08 | 0.51 | 1.00 | 0.00 |
| 39.68 | 113.69 | 1.09 | 0.51 | 1.00 | 0.01 | 39.73 | 113.53 | 1.08 | 0.51 | 1.00 | 0.00 |
| 39.81 | 112.48 | 1.06 | 0.51 | 1.00 | 0.01 | 39.89 | 109.51 | 1.01 | 0.81 | 1.00 | 0.01 |
| 39.96 | 105.89 | 0.95 | 0.84 | 1.00 | 0.01 | 40.06 | 103.14 | 0.91 | 1.50 | 1.00 | 0.02 |
| 40.15 | 102.38 | 0.90 | 1.51 | 1.00 | 0.02 | 40.20 | 102.07 | 0.89 | 1.52 | 1.00 | 0.01 |
| 40.24 | 102.62 | 0.90 | 1.51 | 1.00 | 0.01 | 40.26 | 103.22 | 0.91 | 1.50 | 1.00 | 0.00 |
| 40.27 | 103.36 | 0.91 | 1.49 | 1.00 | 0.00 | 40.37 | 103.81 | 0.92 | 1.48 | 1.00 | 0.02 |
| 40.42 | 104.71 | 0.93 | 1.46 | 1.00 | 0.01 | 40.52 | 105.44 | 0.94 | 1.45 | 1.00 | 0.02 |
| 40.56 | 106.63 | 0.96 | 0.83 | 1.00 | 0.00 | 40.66 | 108.06 | 0.99 | 0.82 | 1.00 | 0.01 |
| 40.70 | 110.67 | 1.03 | 0.80 | 1.00 | 0.00 | 40.75 | 114.79 | 1.10 | 0.50 | 1.00 | 0.00 |
| 40.85 | 119.75 | 1.20 | 0.36 | 1.00 | 0.00 | 40.91 | 125.10 | 1.31 | 0.25 | 1.00 | 0.00 |
| 40.96 | 130.56 | 1.43 | 0.00 | 1.00 | 0.00 | 41.04 | 135.59 | 1.55 | 0.00 | 1.00 | 0.00 |
| 41.09 | 141.03 | 1.70 | 0.00 | 1.00 | 0.00 | 41.18 | 145.57 | 1.83 | 0.00 | 1.00 | 0.00 |
| 41.23 | 149.12 | 1.94 | 0.00 | 1.00 | 0.00 | 41.29 | 151.17 | 2.00 | 0.00 | 1.00 | 0.00 |
| 41.38 | 151.67 | 2.00 | 0.00 | 1.00 | 0.00 | 41.42 | 151.21 | 2.00 | 0.00 | 1.00 | 0.00 |
| 41.52 | 149.86 | 1.96 | 0.00 | 1.00 | 0.00 | 41.57 | 148.26 | 1.91 | 0.00 | 1.00 | 0.00 |
| 41.62 | 146.93 | 1.87 | 0.00 | 1.00 | 0.00 | 41.71 | 145.89 | 1.84 | 0.00 | 1.00 | 0.00 |
| 41.76 | 145.43 | 1.82 | 0.00 | 1.00 | 0.00 | 41.84 | 145.17 | 1.81 | 0.00 | 1.00 | 0.00 |
| 41.91 | 145.22 | 1.81 | 0.00 | 1.00 | 0.00 | 41.95 | 145.53 | 1.82 | 0.00 | 1.00 | 0.00 |
| 42.01 | 146.36 | 1.85 | 0.00 | 1.00 | 0.00 | 42.10 | 147.40 | 1.88 | 0.00 | 1.00 | 0.00 |
| 42.15 | 148.90 | 1.92 | 0.00 | 1.00 | 0.00 | 42.24 | 149.94 | 1.96 | 0.00 | 1.00 | 0.00 |
| 42.28 | 150.31 | 1.97 | 0.00 | 1.00 | 0.00 | 42.39 | 149.81 | 1.95 | 0.00 | 1.00 | 0.00 |
| 42.43 | 149.14 | 1.93 | 0.00 | 1.00 | 0.00 | 42.50 | 148.36 | 1.91 | 0.00 | 1.00 | 0.00 |
| 42.58 | 147.54 | 1.88 | 0.00 | 1.00 | 0.00 | 42.65 | 142.73 | 1.74 | 0.00 | 1.00 | 0.00 |
| 42.70 | 140.58 | 1.68 | 0.00 | 1.00 | 0.00 | 42.73 | 139.14 | 1.64 | 0.00 | 1.00 | 0.00 |
| 42.77 | 142.31 | 1.73 | 0.00 | 1.00 | 0.00 | 42.82 | 144.06 | 1.78 | 0.00 | 1.00 | 0.00 |
| 42.87 | 146.92 | 1.86 | 0.00 | 1.00 | 0.00 | 42.91 | 150.57 | 1.97 | 0.00 | 1.00 | 0.00 |
| 42.97 | 154.27 | 2.00 | 0.00 | 1.00 | 0.00 | 43.02 | 157.35 | 2.00 | 0.00 | 1.00 | 0.00 |
| 43.06 | 159.72 | 2.00 | 0.00 | 1.00 | 0.00 | 43.11 | 162.21 | 2.00 | 0.00 | 1.00 | 0.00 |
| 43.17 | 164.40 | 2.00 | 0.00 | 1.00 | 0.00 | 43.21 | 166.83 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 43.29 | 168.85 | 2.00 | 0.00 | 1.00 | 0.00 | 43.34 | 171.05 | 2.00 | 0.00 | 1.00 | 0.00 |
| 43.39 | 172.71 | 2.00 | 0.00 | 1.00 | 0.00 | 43.45 | 173.74 | 2.00 | 0.00 | 1.00 | 0.00 |
| 43.51 | 173.50 | 2.00 | 0.00 | 1.00 | 0.00 | 43.59 | 172.47 | 2.00 | 0.00 | 1.00 | 0.00 |
| 43.64 | 170.73 | 2.00 | 0.00 | 1.00 | 0.00 | 43.70 | 168.10 | 2.00 | 0.00 | 1.00 | 0.00 |
| 43.78 | 165.08 | 2.00 | 0.00 | 1.00 | 0.00 | 43.88 | 163.55 | 2.00 | 0.00 | 1.00 | 0.00 |
| 43.94 | 161.52 | 2.00 | 0.00 | 1.00 | 0.00 | 44.04 | 157.74 | 2.00 | 0.00 | 1.00 | 0.00 |
| 44.07 | 153.31 | 2.00 | 0.00 | 1.00 | 0.00 | 44.12 | 152.08 | 2.00 | 0.00 | 1.00 | 0.00 |
| 44.16 | 150.70 | 1.98 | 0.00 | 1.00 | 0.00 | 44.21 | 148.86 | 1.92 | 0.00 | 1.00 | 0.00 |
| 44.26 | 146.86 | 1.86 | 0.00 | 1.00 | 0.00 | 44.31 | 144.63 | 1.79 | 0.00 | 1.00 | 0.00 |
| 44.35 | 142.44 | 1.73 | 0.00 | 1.00 | 0.00 | 44.40 | 140.32 | 1.67 | 0.00 | 1.00 | 0.00 |
| 44.45 | 138.56 | 1.62 | 0.00 | 1.00 | 0.00 | 44.50 | 137.24 | 1.59 | 0.00 | 1.00 | 0.00 |
| 44.54 | 136.15 | 1.56 | 0.00 | 1.00 | 0.00 | 44.60 | 134.97 | 1.53 | 0.00 | 1.00 | 0.00 |
| 44.64 | 133.85 | 1.50 | 0.00 | 1.00 | 0.00 | 44.69 | 132.85 | 1.48 | 0.00 | 1.00 | 0.00 |
| 44.74 | 132.59 | 1.47 | 0.00 | 1.00 | 0.00 | 44.79 | 132.34 | 1.47 | 0.00 | 1.00 | 0.00 |
| 44.83 | 132.53 | 1.47 | 0.00 | 1.00 | 0.00 | 44.88 | 132.96 | 1.48 | 0.00 | 1.00 | 0.00 |
| 44.93 | 134.02 | 1.51 | 0.00 | 1.00 | 0.00 | 44.98 | 135.20 | 1.54 | 0.00 | 1.00 | 0.00 |
| 45.03 | 135.95 | 1.56 | 0.00 | 1.00 | 0.00 | 45.08 | 136.45 | 1.57 | 0.00 | 1.00 | 0.00 |
| 45.16 | 136.81 | 1.58 | 0.00 | 1.00 | 0.00 | 45.19 | 136.91 | 1.58 | 0.00 | 1.00 | 0.00 |
| 45.27 | 136.53 | 1.57 | 0.00 | 1.00 | 0.00 | 45.32 | 135.53 | 1.55 | 0.00 | 1.00 | 0.00 |
| 45.37 | 133.73 | 1.50 | 0.00 | 1.00 | 0.00 | 45.45 | 131.17 | 1.44 | 0.00 | 1.00 | 0.00 |
| 45.51 | 127.52 | 1.35 | 0.00 | 1.00 | 0.00 | 45.56 | 123.37 | 2.00 | 0.00 | 1.00 | 0.00 |
| 45.61 | 117.60 | 2.00 | 0.00 | 1.00 | 0.00 | 45.69 | 111.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 45.75 | 108.19 | 2.00 | 0.00 | 1.00 | 0.00 | 45.81 | 105.04 | 2.00 | 0.00 | 1.00 | 0.00 |
| 45.89 | 105.10 | 2.00 | 0.00 | 1.00 | 0.00 | 45.94 | 103.73 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.04 | 108.05 | 2.00 | 0.00 | 1.00 | 0.00 | 46.08 | 112.07 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.15 | 109.85 | 2.00 | 0.00 | 1.00 | 0.00 | 46.17 | 110.89 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.18 | 110.17 | 2.00 | 0.00 | 1.00 | 0.00 | 46.23 | 109.18 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.27 | 107.58 | 2.00 | 0.00 | 1.00 | 0.00 | 46.32 | 105.33 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.41 | 107.19 | 2.00 | 0.00 | 1.00 | 0.00 | 46.47 | 106.19 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.52 | 106.89 | 2.00 | 0.00 | 1.00 | 0.00 | 46.56 | 109.81 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.65 | 113.60 | 2.00 | 0.00 | 1.00 | 0.00 | 46.71 | 117.68 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.76 | 120.04 | 2.00 | 0.00 | 1.00 | 0.00 | 46.85 | 120.43 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.90 | 118.71 | 2.00 | 0.00 | 1.00 | 0.00 | 46.99 | 116.19 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.04 | 114.63 | 2.00 | 0.00 | 1.00 | 0.00 | 47.10 | 114.71 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.16 | 116.10 | 2.00 | 0.00 | 1.00 | 0.00 | 47.23 | 117.23 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.30 | 117.96 | 2.00 | 0.00 | 1.00 | 0.00 | 47.38 | 113.48 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.43 | 111.84 | 2.00 | 0.00 | 1.00 | 0.00 | 47.52 | 105.92 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.59 | 93.23 | 2.00 | 0.00 | 1.00 | 0.00 | 47.66 | 81.89 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.77 | 74.67 | 2.00 | 0.00 | 1.00 | 0.00 | 47.82 | 75.76 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.91 | 76.63 | 2.00 | 0.00 | 1.00 | 0.00 | 47.93 | 77.65 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.97 | 78.37 | 2.00 | 0.00 | 1.00 | 0.00 | 48.02 | 79.56 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.07 | 81.21 | 2.00 | 0.00 | 1.00 | 0.00 | 48.12 | 84.04 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.19 | 86.54 | 2.00 | 0.00 | 1.00 | 0.00 | 48.23 | 88.74 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.31 | 89.88 | 2.00 | 0.00 | 1.00 | 0.00 | 48.35 | 90.92 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.40 | 91.72 | 2.00 | 0.00 | 1.00 | 0.00 | 48.45 | 92.39 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.50 | 92.93 | 2.00 | 0.00 | 1.00 | 0.00 | 48.55 | 93.37 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.59 | 94.24 | 2.00 | 0.00 | 1.00 | 0.00 | 48.67 | 94.62 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.73 | 94.36 | 2.00 | 0.00 | 1.00 | 0.00 | 48.78 | 92.80 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 48.83 | 90.68 | 2.00 | 0.00 | 1.00 | 0.00 | 48.91 | 88.35 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.98 | 86.35 | 2.00 | 0.00 | 1.00 | 0.00 | 49.03 | 85.19 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.12 | 82.90 | 2.00 | 0.00 | 1.00 | 0.00 | 49.17 | 79.48 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.27 | 76.51 | 2.00 | 0.00 | 1.00 | 0.00 | 49.31 | 76.55 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.38 | 78.88 | 2.00 | 0.00 | 1.00 | 0.00 | 49.45 | 81.15 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.51 | 83.00 | 2.00 | 0.00 | 1.00 | 0.00 | 49.54 | 84.13 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.59 | 84.45 | 2.00 | 0.00 | 1.00 | 0.00 | 49.64 | 83.63 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.73 | 83.01 | 2.00 | 0.00 | 1.00 | 0.00 | 49.83 | 82.47 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.92 | 82.19 | 2.00 | 0.00 | 1.00 | 0.00 | 49.98 | 81.62 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.07 | 81.01 | 2.00 | 0.00 | 1.00 | 0.00 | 50.16 | 80.51 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.24 | 80.06 | 2.00 | 0.00 | 1.00 | 0.00 | 50.32 | 79.87 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.41 | 80.02 | 2.00 | 0.00 | 1.00 | 0.00 | 50.50 | 80.09 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.56 | 79.36 | 2.00 | 0.00 | 1.00 | 0.00 | 50.66 | 78.27 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.74 | 77.53 | 2.00 | 0.00 | 1.00 | 0.00 | 50.84 | 79.62 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.93 | 83.88 | 2.00 | 0.00 | 1.00 | 0.00 | 50.98 | 92.08 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.08 | 102.75 | 2.00 | 0.00 | 1.00 | 0.00 | 51.17 | 113.31 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.24 | 122.80 | 2.00 | 0.00 | 1.00 | 0.00 | 51.34 | 129.12 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.41 | 122.59 | 2.00 | 0.00 | 1.00 | 0.00 | 51.51 | 115.66 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.58 | 106.93 | 2.00 | 0.00 | 1.00 | 0.00 | 51.68 | 109.98 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.79 | 110.16 | 2.00 | 0.00 | 1.00 | 0.00 | 51.82 | 110.15 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.85 | 111.07 | 2.00 | 0.00 | 1.00 | 0.00 | 51.91 | 113.23 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.00 | 116.25 | 2.00 | 0.00 | 1.00 | 0.00 | 52.05 | 118.92 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.10 | 118.95 | 2.00 | 0.00 | 1.00 | 0.00 | 52.19 | 115.81 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.28 | 111.69 | 2.00 | 0.00 | 1.00 | 0.00 | 52.34 | 109.32 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.42 | 109.66 | 2.00 | 0.00 | 1.00 | 0.00 | 52.48 | 111.03 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.57 | 111.27 | 2.00 | 0.00 | 1.00 | 0.00 | 52.62 | 109.88 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.69 | 106.89 | 2.00 | 0.00 | 1.00 | 0.00 | 52.77 | 104.50 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.87 | 103.83 | 2.00 | 0.00 | 1.00 | 0.00 | 52.91 | 102.56 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.01 | 102.13 | 2.00 | 0.00 | 1.00 | 0.00 | 53.10 | 103.11 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.16 | 113.26 | 2.00 | 0.00 | 1.00 | 0.00 | 53.25 | 123.32 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.29 | 136.25 | 2.00 | 0.00 | 1.00 | 0.00 | 53.38 | 144.18 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.42 | 149.47 | 2.00 | 0.00 | 1.00 | 0.00 | 53.47 | 150.02 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.52 | 148.22 | 2.00 | 0.00 | 1.00 | 0.00 | 53.58 | 152.55 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.66 | 160.18 | 2.00 | 0.00 | 1.00 | 0.00 | 53.75 | 169.41 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.81 | 175.67 | 2.00 | 0.00 | 1.00 | 0.00 | 53.87 | 177.89 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.95 | 178.71 | 2.00 | 0.00 | 1.00 | 0.00 | 54.01 | 177.57 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.06 | 172.90 | 2.00 | 0.00 | 1.00 | 0.00 | 54.15 | 167.57 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.20 | 165.24 | 2.00 | 0.00 | 1.00 | 0.00 | 54.29 | 164.23 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.34 | 141.87 | 2.00 | 0.00 | 1.00 | 0.00 | 54.43 | 108.63 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.45 | 82.07 | 2.00 | 0.00 | 1.00 | 0.00 | 54.48 | 80.59 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.52 | 82.69 | 2.00 | 0.00 | 1.00 | 0.00 | 54.53 | 86.57 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.58 | 89.91 | 0.75 | 2.37 | 1.00 | 0.01 | 54.62 | 93.59 | 0.80 | 2.24 | 1.00 | 0.01 |
| 54.65 | 96.81 | 0.84 | 2.13 | 1.00 | 0.01 | 54.70 | 99.98 | 0.88 | 1.57 | 1.00 | 0.01 |
| 54.76 | 102.23 | 0.92 | 1.52 | 1.00 | 0.01 | 54.77 | 102.77 | 0.92 | 1.51 | 1.00 | 0.00 |
| 54.82 | 103.16 | 0.93 | 1.50 | 1.00 | 0.01 | 54.87 | 103.55 | 0.94 | 1.49 | 1.00 | 0.01 |
| 54.88 | 104.08 | 0.94 | 1.48 | 1.00 | 0.00 | 54.91 | 104.56 | 0.95 | 0.85 | 1.00 | 0.00 |
| 54.96 | 106.09 | 0.98 | 0.84 | 1.00 | 0.00 | 54.97 | 109.90 | 1.04 | 0.81 | 1.00 | 0.00 |
| 55.03 | 115.47 | 1.14 | 0.50 | 1.00 | 0.00 | 55.09 | 120.89 | 1.25 | 0.25 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 55.15 | 121.55 | 1.26 | 0.25 | 1.00 | 0.00 | 55.20 | 122.41 | 1.28 | 0.25 | 1.00 | 0.00 |
| 55.25 | 121.49 | 1.26 | 0.25 | 1.00 | 0.00 | 55.30 | 129.28 | 1.44 | 0.00 | 1.00 | 0.00 |
| 55.34 | 134.62 | 1.57 | 0.00 | 1.00 | 0.00 | 55.39 | 146.03 | 1.89 | 0.00 | 1.00 | 0.00 |
| 55.40 | 153.71 | 2.00 | 0.00 | 1.00 | 0.00 | 55.44 | 157.35 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.44 | 157.04 | 2.00 | 0.00 | 1.00 | 0.00 | 55.49 | 160.78 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.54 | 167.71 | 2.00 | 0.00 | 1.00 | 0.00 | 55.59 | 176.17 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.63 | 180.34 | 2.00 | 0.00 | 1.00 | 0.00 | 55.64 | 180.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.68 | 179.92 | 2.00 | 0.00 | 1.00 | 0.00 | 55.69 | 178.50 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.69 | 179.38 | 2.00 | 0.00 | 1.00 | 0.00 | 55.71 | 183.08 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.76 | 186.45 | 2.00 | 0.00 | 1.00 | 0.00 | 55.78 | 187.85 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.81 | 180.96 | 2.00 | 0.00 | 1.00 | 0.00 | 55.85 | 175.16 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.86 | 176.41 | 2.00 | 0.00 | 1.00 | 0.00 | 55.91 | 179.42 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.92 | 180.48 | 2.00 | 0.00 | 1.00 | 0.00 | 55.96 | 185.46 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.97 | 189.98 | 2.00 | 0.00 | 1.00 | 0.00 | 56.00 | 196.01 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.01 | 197.72 | 2.00 | 0.00 | 1.00 | 0.00 | 56.03 | 198.18 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.05 | 198.14 | 2.00 | 0.00 | 1.00 | 0.00 | 56.10 | 198.99 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.12 | 199.86 | 2.00 | 0.00 | 1.00 | 0.00 | 56.16 | 199.67 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.17 | 195.76 | 2.00 | 0.00 | 1.00 | 0.00 | 56.20 | 189.78 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.22 | 184.46 | 2.00 | 0.00 | 1.00 | 0.00 | 56.24 | 181.69 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.30 | 179.84 | 2.00 | 0.00 | 1.00 | 0.00 | 56.31 | 177.72 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.34 | 174.82 | 2.00 | 0.00 | 1.00 | 0.00 | 56.39 | 172.57 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.45 | 170.44 | 2.00 | 0.00 | 1.00 | 0.00 | 56.48 | 168.31 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.49 | 165.32 | 2.00 | 0.00 | 1.00 | 0.00 | 56.53 | 168.57 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.58 | 169.38 | 2.00 | 0.00 | 1.00 | 0.00 | 56.63 | 155.86 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.68 | 156.17 | 2.00 | 0.00 | 1.00 | 0.00 | 56.73 | 157.68 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.78 | 156.09 | 2.00 | 0.00 | 1.00 | 0.00 | 56.83 | 153.53 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.89 | 157.35 | 2.00 | 0.00 | 1.00 | 0.00 | 56.95 | 160.76 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.99 | 161.37 | 2.00 | 0.00 | 1.00 | 0.00 | 57.01 | 160.98 | 2.00 | 0.00 | 1.00 | 0.00 |
| 57.04 | 160.65 | 2.00 | 0.00 | 1.00 | 0.00 | 57.09 | 161.13 | 2.00 | 0.00 | 1.00 | 0.00 |
| 57.11 | 163.57 | 2.00 | 0.00 | 1.00 | 0.00 | 57.13 | 167.47 | 2.00 | 0.00 | 1.00 | 0.00 |
| 57.18 | 169.44 | 2.00 | 0.00 | 1.00 | 0.00 | 57.19 | 168.95 | 2.00 | 0.00 | 1.00 | 0.00 |
| 57.21 | 166.30 | 2.00 | 0.00 | 1.00 | 0.00 | 57.24 | 164.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 57.28 | 163.35 | 2.00 | 0.00 | 1.00 | 0.00 | 57.32 | 161.45 | 2.00 | 0.00 | 1.00 | 0.00 |
| 57.35 | 160.03 | 2.00 | 0.00 | 1.00 | 0.00 | 57.38 | 157.50 | 2.00 | 0.00 | 1.00 | 0.00 |
| 57.43 | 155.53 | 2.00 | 0.00 | 1.00 | 0.00 | 57.48 | 150.26 | 2.00 | 0.00 | 1.00 | 0.00 |
| 57.52 | 143.92 | 1.85 | 0.00 | 1.00 | 0.00 | 57.57 | 142.28 | 1.80 | 0.00 | 1.00 | 0.00 |
| 57.62 | 146.53 | 1.93 | 0.00 | 1.00 | 0.00 | 57.68 | 157.03 | 2.00 | 0.00 | 1.00 | 0.00 |
| 57.76 | 166.00 | 2.00 | 0.00 | 1.00 | 0.00 | 57.81 | 161.17 | 2.00 | 0.00 | 1.00 | 0.00 |
| 57.86 | 159.31 | 2.00 | 0.00 | 1.00 | 0.00 | 57.89 | 167.80 | 2.00 | 0.00 | 1.00 | 0.00 |
| 57.91 | 171.02 | 2.00 | 0.00 | 1.00 | 0.00 | 57.92 | 169.11 | 2.00 | 0.00 | 1.00 | 0.00 |
| 57.95 | 166.67 | 2.00 | 0.00 | 1.00 | 0.00 | 57.99 | 167.08 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.01 | 169.42 | 2.00 | 0.00 | 1.00 | 0.00 | 58.05 | 173.02 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.05 | 175.27 | 2.00 | 0.00 | 1.00 | 0.00 | 58.10 | 176.91 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.13 | 178.73 | 2.00 | 0.00 | 1.00 | 0.00 | 58.15 | 180.87 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.17 | 182.75 | 2.00 | 0.00 | 1.00 | 0.00 | 58.20 | 182.21 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.21 | 181.00 | 2.00 | 0.00 | 1.00 | 0.00 | 58.21 | 179.50 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.23 | 179.34 | 2.00 | 0.00 | 1.00 | 0.00 | 58.24 | 177.62 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.25 | 177.92 | 2.00 | 0.00 | 1.00 | 0.00 | 58.29 | 179.26 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 58.31 | 183.11 | 2.00 | 0.00 | 1.00 | 0.00 | 58.33 | 186.52 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.38 | 190.06 | 2.00 | 0.00 | 1.00 | 0.00 | 58.39 | 193.13 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.43 | 195.59 | 2.00 | 0.00 | 1.00 | 0.00 | 58.43 | 199.15 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.48 | 200.60 | 2.00 | 0.00 | 1.00 | 0.00 | 58.53 | 202.36 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.56 | 202.90 | 2.00 | 0.00 | 1.00 | 0.00 | 58.58 | 205.20 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.59 | 207.06 | 2.00 | 0.00 | 1.00 | 0.00 | 58.63 | 205.90 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.63 | 206.49 | 2.00 | 0.00 | 1.00 | 0.00 | 58.63 | 202.42 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.68 | 203.74 | 2.00 | 0.00 | 1.00 | 0.00 | 58.69 | 204.22 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.72 | 208.81 | 2.00 | 0.00 | 1.00 | 0.00 | 58.73 | 210.28 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.74 | 211.92 | 2.00 | 0.00 | 1.00 | 0.00 | 58.77 | 211.36 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.81 | 210.02 | 2.00 | 0.00 | 1.00 | 0.00 | 58.82 | 207.44 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.83 | 207.97 | 2.00 | 0.00 | 1.00 | 0.00 | 58.87 | 209.78 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.91 | 212.41 | 2.00 | 0.00 | 1.00 | 0.00 | 58.92 | 214.21 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.93 | 214.95 | 2.00 | 0.00 | 1.00 | 0.00 | 58.96 | 214.44 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.01 | 207.70 | 2.00 | 0.00 | 1.00 | 0.00 | 59.06 | 199.13 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.08 | 189.77 | 2.00 | 0.00 | 1.00 | 0.00 | 59.11 | 184.95 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.15 | 181.46 | 2.00 | 0.00 | 1.00 | 0.00 | 59.21 | 178.75 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.26 | 178.89 | 2.00 | 0.00 | 1.00 | 0.00 | 59.30 | 173.20 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.35 | 169.07 | 2.00 | 0.00 | 1.00 | 0.00 | 59.40 | 168.73 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.42 | 168.34 | 2.00 | 0.00 | 1.00 | 0.00 | 59.47 | 167.78 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.51 | 168.63 | 2.00 | 0.00 | 1.00 | 0.00 | 59.56 | 168.59 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.61 | 164.50 | 2.00 | 0.00 | 1.00 | 0.00 | 59.67 | 155.77 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.71 | 159.11 | 2.00 | 0.00 | 1.00 | 0.00 | 59.80 | 159.56 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.85 | 158.50 | 2.00 | 0.00 | 1.00 | 0.00 | 59.90 | 155.47 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.00 | 155.53 | 2.00 | 0.00 | 1.00 | 0.00 | 60.04 | 155.09 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.10 | 150.62 | 2.00 | 0.00 | 1.00 | 0.00 | 60.15 | 145.30 | 1.91 | 0.00 | 1.00 | 0.00 |
| 60.19 | 139.22 | 1.73 | 0.00 | 1.00 | 0.00 | 60.23 | 138.03 | 1.70 | 0.00 | 1.00 | 0.00 |
| 60.28 | 137.71 | 1.69 | 0.00 | 1.00 | 0.00 | 60.33 | 139.47 | 1.74 | 0.00 | 1.00 | 0.00 |
| 60.38 | 140.26 | 1.77 | 0.00 | 1.00 | 0.00 | 60.42 | 140.74 | 1.78 | 0.00 | 1.00 | 0.00 |
| 60.44 | 140.24 | 1.76 | 0.00 | 1.00 | 0.00 | 60.47 | 145.72 | 1.93 | 0.00 | 1.00 | 0.00 |
| 60.52 | 148.94 | 2.00 | 0.00 | 1.00 | 0.00 | 60.56 | 150.90 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.57 | 151.48 | 2.00 | 0.00 | 1.00 | 0.00 | 60.61 | 151.48 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.66 | 151.98 | 2.00 | 0.00 | 1.00 | 0.00 | 60.71 | 153.21 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.76 | 156.59 | 2.00 | 0.00 | 1.00 | 0.00 | 60.81 | 159.58 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.86 | 161.02 | 2.00 | 0.00 | 1.00 | 0.00 | 60.91 | 158.84 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.95 | 170.69 | 2.00 | 0.00 | 1.00 | 0.00 | 61.00 | 180.91 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.02 | 186.60 | 2.00 | 0.00 | 1.00 | 0.00 | 61.05 | 194.34 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.08 | 201.44 | 2.00 | 0.00 | 1.00 | 0.00 | 61.09 | 207.57 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.13 | 209.24 | 2.00 | 0.00 | 1.00 | 0.00 | 61.14 | 209.63 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.16 | 210.15 | 2.00 | 0.00 | 1.00 | 0.00 | 61.20 | 212.77 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.23 | 215.88 | 2.00 | 0.00 | 1.00 | 0.00 | 61.24 | 217.23 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.29 | 214.83 | 2.00 | 0.00 | 1.00 | 0.00 | 61.30 | 210.65 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.33 | 207.82 | 2.00 | 0.00 | 1.00 | 0.00 | 61.38 | 206.66 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.43 | 206.60 | 2.00 | 0.00 | 1.00 | 0.00 | 61.48 | 208.54 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.53 | 212.02 | 2.00 | 0.00 | 1.00 | 0.00 | 61.56 | 213.05 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.58 | 205.10 | 2.00 | 0.00 | 1.00 | 0.00 | 61.59 | 198.13 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.62 | 169.24 | 2.00 | 0.00 | 1.00 | 0.00 | 61.63 | 167.67 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.67 | 165.65 | 2.00 | 0.00 | 1.00 | 0.00 | 61.71 | 186.61 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 61.76 | 184.50 | 2.00 | 0.00 | 1.00 | 0.00 | 61.81 | 178.32 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.86 | 172.85 | 2.00 | 0.00 | 1.00 | 0.00 | 61.87 | 168.83 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.91 | 165.39 | 2.00 | 0.00 | 1.00 | 0.00 | 61.95 | 162.25 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.96 | 159.04 | 2.00 | 0.00 | 1.00 | 0.00 | 62.00 | 155.30 | 2.00 | 0.00 | 1.00 | 0.00 |
| 62.04 | 150.01 | 2.00 | 0.00 | 1.00 | 0.00 | 62.06 | 143.15 | 1.86 | 0.00 | 1.00 | 0.00 |
| 62.10 | 137.65 | 1.70 | 0.00 | 1.00 | 0.00 | 62.14 | 133.04 | 1.58 | 0.00 | 1.00 | 0.00 |
| 62.20 | 129.46 | 1.49 | 0.00 | 1.00 | 0.00 | 62.22 | 122.70 | 1.33 | 0.25 | 1.00 | 0.00 |
| 62.27 | 125.13 | 1.39 | 0.00 | 1.00 | 0.00 | 62.29 | 125.44 | 1.39 | 0.00 | 1.00 | 0.00 |
| 62.34 | 124.22 | 1.37 | 0.00 | 1.00 | 0.00 | 62.39 | 123.46 | 1.35 | 0.25 | 1.00 | 0.00 |
| 62.43 | 121.51 | 1.31 | 0.25 | 1.00 | 0.00 | 62.49 | 121.38 | 1.30 | 0.25 | 1.00 | 0.00 |
| 62.57 | 121.70 | 1.31 | 0.25 | 1.00 | 0.00 | 62.68 | 127.79 | 1.45 | 0.00 | 1.00 | 0.00 |
| 62.75 | 139.12 | 1.75 | 0.00 | 1.00 | 0.00 | 62.87 | 146.86 | 1.99 | 0.00 | 1.00 | 0.00 |
| 62.88 | 142.25 | 1.84 | 0.00 | 1.00 | 0.00 | 62.89 | 142.29 | 1.84 | 0.00 | 1.00 | 0.00 |
| 62.93 | 142.80 | 1.86 | 0.00 | 1.00 | 0.00 | 62.98 | 158.87 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.02 | 172.30 | 2.00 | 0.00 | 1.00 | 0.00 | 63.07 | 182.93 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.12 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 63.14 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.17 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 63.17 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.20 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 63.21 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.23 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 63.26 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.28 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 63.31 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.32 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 63.36 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.40 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | | | | | | |

**Total estimated settlement: 0.66**

**Abbreviations**

| | |
|---|---|
| $Q_{tn,cs}$: | Equivalent clean sand normalized cone resistance |
| FS: | Factor of safety against liquefaction |
| $e_v$ (%): | Post-liquefaction volumentric strain |
| DF: | $e_v$ depth weighting factor |
| Settlement: | Calculated settlement |

**:: Strength loss calculation (Robertson (2009) ::**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 0.01 | 0.00 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.04 | 0.00 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.09 | 0.00 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.11 | 0.00 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.14 | 0.00 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.14 | 1.35 | 2.15 | 27.82 | 59.81 | 3.66 | 7.03 | 11.25 |
| 0.18 | 6.97 | 11.19 | 4.58 | 51.24 | 2.69 | 0.06 | 0.63 |
| 0.23 | 18.19 | 29.21 | 1.00 | 29.21 | 2.14 | 0.02 | 0.62 |
| 0.24 | 36.79 | 59.09 | 1.00 | 59.09 | 1.76 | 0.11 | 0.65 |
| 0.28 | 53.07 | 85.23 | 1.00 | 85.23 | 1.58 | 0.72 | 0.72 |
| 0.33 | 59.27 | 95.19 | 1.00 | 95.19 | 1.53 | 0.74 | 0.74 |
| 0.38 | 56.61 | 90.91 | 1.00 | 90.91 | 1.60 | 0.73 | 0.73 |
| 0.42 | 52.11 | 83.69 | 1.00 | 83.69 | 1.72 | 0.72 | 0.72 |
| 0.47 | 51.84 | 83.25 | 1.19 | 98.77 | 1.83 | 0.75 | 0.75 |
| 0.51 | 51.94 | 83.40 | 1.24 | 103.16 | 1.90 | 0.75 | 0.75 |
| 0.52 | 52.09 | 83.64 | 1.26 | 104.99 | 1.93 | 0.76 | 0.76 |
| 0.57 | 52.66 | 84.56 | 1.24 | 105.20 | 1.91 | 0.76 | 0.76 |
| 0.61 | 53.24 | 85.48 | 1.23 | 105.23 | 1.89 | 0.76 | 0.76 |
| 0.67 | 53.47 | 85.85 | 1.22 | 105.00 | 1.88 | 0.76 | 0.76 |
| 0.73 | 53.84 | 86.44 | 1.22 | 105.23 | 1.87 | 0.76 | 0.76 |
| 0.81 | 53.62 | 86.08 | 1.22 | 104.72 | 1.87 | 0.76 | 0.76 |
| 0.86 | 53.52 | 85.91 | 1.25 | 107.16 | 1.92 | 0.76 | 0.76 |
| 0.98 | 52.14 | 83.69 | 1.28 | 106.78 | 1.96 | 0.76 | 0.76 |
| 1.05 | 48.22 | 77.37 | 1.32 | 102.42 | 2.02 | 0.75 | 0.75 |
| 1.15 | 43.67 | 70.05 | 1.34 | 94.07 | 2.04 | 0.74 | 0.74 |
| 1.24 | 37.87 | 60.73 | 1.38 | 83.84 | 2.07 | 0.72 | 0.72 |
| 1.34 | 34.47 | 55.26 | 1.40 | 77.37 | 2.09 | 0.47 | 0.70 |
| 1.43 | 30.63 | 49.08 | 1.51 | 74.33 | 2.16 | 0.36 | 0.69 |
| 1.53 | 26.86 | 43.01 | 1.75 | 75.37 | 2.25 | 0.40 | 0.70 |
| 1.58 | 24.56 | 39.32 | 1.98 | 77.68 | 2.31 | 0.48 | 0.70 |
| 1.62 | 23.48 | 37.59 | 2.00 | 75.15 | 2.32 | 0.39 | 0.70 |
| 1.67 | 24.36 | 38.99 | 1.85 | 72.19 | 2.28 | 0.31 | 0.69 |
| 1.75 | 23.89 | 38.23 | 1.86 | 70.99 | 2.28 | 0.28 | 0.69 |
| 1.77 | 23.08 | 36.93 | 1.92 | 70.79 | 2.30 | 0.27 | 0.69 |
| 1.81 | 21.50 | 34.38 | 2.08 | 71.55 | 2.34 | 0.29 | 0.69 |
| 1.86 | 19.71 | 31.51 | 2.30 | 72.37 | 2.39 | 0.31 | 0.69 |
| 1.91 | 17.96 | 28.69 | 2.52 | 72.24 | 2.43 | 0.31 | 0.69 |
| 1.95 | 16.98 | 27.11 | 2.53 | 68.54 | 2.43 | 0.23 | 0.68 |
| 2.00 | 16.21 | 25.86 | 2.43 | 62.85 | 2.41 | 0.14 | 0.66 |
| 2.05 | 14.89 | 23.75 | 2.42 | 57.52 | 2.41 | 0.09 | 0.65 |
| 2.11 | 13.51 | 21.52 | 2.55 | 54.95 | 2.43 | 0.08 | 0.64 |
| 2.20 | 12.33 | 19.62 | 2.79 | 54.76 | 2.47 | 0.08 | 0.64 |
| 2.24 | 11.73 | 18.64 | 3.01 | 56.15 | 2.50 | 0.08 | 0.65 |
| 2.29 | 11.26 | 17.88 | 3.29 | 58.85 | 2.54 | 0.10 | 0.65 |
| 2.34 | 11.32 | 17.99 | 3.76 | 67.59 | 2.60 | 0.21 | 0.68 |
| 2.44 | 12.17 | 19.33 | 3.86 | 74.63 | 2.61 | 0.37 | 0.69 |
| 2.48 | 14.56 | 23.17 | 3.43 | 79.44 | 2.56 | 0.56 | 0.71 |
| 2.58 | 18.03 | 28.74 | 2.75 | 79.05 | 2.47 | 0.54 | 0.70 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 2.63 | 22.41 | 35.77 | 2.21 | 79.01 | 2.37 | 0.54 | 0.70 |
| 2.71 | 26.08 | 41.66 | 1.92 | 80.03 | 2.30 | 0.59 | 0.71 |
| 2.78 | 30.33 | 48.48 | 1.67 | 80.89 | 2.22 | 0.63 | 0.71 |
| 2.82 | 33.73 | 53.95 | 1.52 | 82.21 | 2.16 | 0.70 | 0.71 |
| 2.89 | 34.94 | 55.89 | 1.47 | 82.24 | 2.13 | 0.70 | 0.71 |
| 2.96 | 33.63 | 53.77 | 1.51 | 81.39 | 2.16 | 0.66 | 0.71 |
| 3.03 | 30.90 | 49.37 | 1.62 | 80.00 | 2.20 | 0.58 | 0.71 |
| 3.11 | 28.98 | 46.28 | 1.70 | 78.46 | 2.23 | 0.51 | 0.70 |
| 3.19 | 26.45 | 42.22 | 1.79 | 75.65 | 2.26 | 0.41 | 0.70 |
| 3.25 | 23.52 | 37.50 | 1.97 | 73.87 | 2.31 | 0.35 | 0.69 |
| 3.35 | 20.49 | 32.62 | 2.28 | 74.42 | 2.38 | 0.37 | 0.69 |
| 3.41 | 17.79 | 28.29 | 2.60 | 73.49 | 2.44 | 0.34 | 0.69 |
| 3.50 | 15.91 | 25.25 | 2.74 | 69.10 | 2.46 | 0.24 | 0.68 |
| 3.59 | 14.83 | 23.51 | 2.66 | 62.63 | 2.45 | 0.14 | 0.66 |
| 3.69 | 14.59 | 23.12 | 2.55 | 58.90 | 2.43 | 0.10 | 0.65 |
| 3.79 | 15.20 | 24.09 | 2.35 | 56.48 | 2.39 | 0.09 | 0.65 |
| 3.88 | 16.54 | 26.24 | 2.09 | 54.78 | 2.34 | 0.08 | 0.64 |
| 3.97 | 19.14 | 30.40 | 1.82 | 55.25 | 2.27 | 0.08 | 0.64 |
| 4.07 | 20.82 | 33.10 | 1.77 | 58.69 | 2.26 | 0.10 | 0.65 |
| 4.14 | 23.49 | 37.37 | 1.67 | 62.38 | 2.22 | 0.14 | 0.66 |
| 4.17 | 25.51 | 40.62 | 1.61 | 65.25 | 2.20 | 0.17 | 0.67 |
| 4.26 | 28.14 | 44.83 | 1.51 | 67.83 | 2.15 | 0.21 | 0.68 |
| 4.32 | 28.71 | 45.74 | 1.52 | 69.43 | 2.16 | 0.24 | 0.68 |
| 4.37 | 28.10 | 44.77 | 1.56 | 69.94 | 2.18 | 0.25 | 0.68 |
| 4.42 | 26.62 | 42.38 | 1.65 | 69.93 | 2.21 | 0.25 | 0.68 |
| 4.51 | 25.07 | 39.88 | 1.74 | 69.30 | 2.24 | 0.24 | 0.68 |
| 4.61 | 23.68 | 37.65 | 1.82 | 68.42 | 2.27 | 0.22 | 0.68 |
| 4.65 | 22.37 | 35.53 | 1.90 | 67.38 | 2.29 | 0.21 | 0.68 |
| 4.74 | 21.09 | 33.47 | 2.00 | 67.06 | 2.32 | 0.20 | 0.68 |
| 4.80 | 20.48 | 32.49 | 2.05 | 66.55 | 2.33 | 0.19 | 0.67 |
| 4.89 | 20.04 | 31.78 | 2.09 | 66.46 | 2.34 | 0.19 | 0.67 |
| 4.95 | 20.38 | 32.32 | 2.05 | 66.20 | 2.33 | 0.19 | 0.67 |
| 5.04 | 21.05 | 33.39 | 1.97 | 65.92 | 2.31 | 0.18 | 0.67 |
| 5.13 | 22.81 | 36.20 | 1.80 | 65.26 | 2.27 | 0.17 | 0.67 |
| 5.18 | 25.27 | 40.14 | 1.63 | 65.28 | 2.20 | 0.17 | 0.67 |
| 5.28 | 28.07 | 44.63 | 1.49 | 66.64 | 2.14 | 0.19 | 0.67 |
| 5.32 | 31.47 | 50.09 | 1.40 | 70.04 | 2.09 | 0.26 | 0.68 |
| 5.42 | 34.67 | 55.23 | 1.35 | 74.62 | 2.05 | 0.37 | 0.69 |
| 5.51 | 38.14 | 60.80 | 1.31 | 79.86 | 2.01 | 0.58 | 0.71 |
| 5.60 | 41.28 | 65.83 | 1.26 | 83.18 | 1.94 | 0.71 | 0.71 |
| 5.66 | 44.24 | 70.58 | 1.22 | 86.14 | 1.88 | 0.72 | 0.72 |
| 5.76 | 45.86 | 73.17 | 1.00 | 73.17 | 1.83 | 0.33 | 0.69 |
| 5.85 | 44.91 | 71.65 | 1.21 | 86.53 | 1.86 | 0.72 | 0.72 |
| 5.92 | 41.11 | 65.53 | 1.25 | 81.79 | 1.92 | 0.68 | 0.71 |
| 5.95 | 38.21 | 60.87 | 1.28 | 77.76 | 1.96 | 0.48 | 0.70 |
| 5.97 | 36.15 | 57.56 | 1.30 | 74.97 | 1.99 | 0.38 | 0.70 |
| 6.02 | 35.37 | 56.31 | 1.31 | 73.90 | 2.01 | 0.35 | 0.69 |
| 6.06 | 32.74 | 52.08 | 1.36 | 70.59 | 2.05 | 0.27 | 0.68 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 6.16 | 29.98 | 47.63 | 1.42 | 67.87 | 2.10 | 0.21 | 0.68 |
| 6.21 | 26.98 | 42.82 | 1.56 | 66.83 | 2.18 | 0.20 | 0.68 |
| 6.26 | 24.29 | 38.48 | 1.79 | 68.74 | 2.26 | 0.23 | 0.68 |
| 6.31 | 21.62 | 34.19 | 2.18 | 74.63 | 2.36 | 0.37 | 0.69 |
| 6.40 | 19.23 | 30.34 | 2.70 | 82.06 | 2.46 | 0.69 | 0.71 |
| 6.44 | 16.91 | 26.60 | 3.43 | 91.18 | 2.56 | 0.73 | 0.73 |
| 6.52 | 15.12 | 23.73 | 4.16 | 98.65 | 2.64 | 0.75 | 0.75 |
| 6.57 | 13.47 | 21.08 | 5.01 | 105.63 | 2.73 | 0.76 | 0.76 |
| 6.64 | 12.16 | 18.96 | 5.81 | 110.19 | 2.80 | 0.77 | 0.77 |
| 6.69 | 10.98 | 17.06 | 6.65 | 113.46 | 2.86 | 0.77 | 0.77 |
| 6.78 | 10.34 | 16.02 | 7.15 | 114.49 | 2.90 | 0.77 | 0.77 |
| 6.83 | 9.90 | 15.31 | 7.38 | 112.96 | 2.91 | 0.77 | 0.77 |
| 6.92 | 9.60 | 14.82 | 7.45 | 110.37 | 2.92 | 0.77 | 0.77 |
| 6.97 | 9.39 | 14.48 | 7.39 | 107.07 | 2.91 | 0.76 | 0.76 |
| 7.03 | 9.29 | 14.32 | 7.35 | 105.27 | 2.91 | 0.76 | 0.76 |
| 7.12 | 9.32 | 14.36 | 7.25 | 104.07 | 2.90 | 0.76 | 0.76 |
| 7.22 | 9.39 | 14.46 | 7.17 | 103.64 | 2.90 | 0.75 | 0.75 |
| 7.27 | 9.52 | 14.66 | 7.09 | 103.89 | 2.89 | 0.76 | 0.76 |
| 7.36 | 9.65 | 14.86 | 7.06 | 104.93 | 2.89 | 0.76 | 0.76 |
| 7.43 | 9.75 | 15.01 | 7.08 | 106.34 | 2.89 | 0.76 | 0.76 |
| 7.50 | 9.78 | 15.06 | 7.16 | 107.82 | 2.90 | 0.76 | 0.76 |
| 7.59 | 9.77 | 15.04 | 7.22 | 108.69 | 2.90 | 0.76 | 0.76 |
| 7.64 | 9.70 | 14.93 | 7.34 | 109.64 | 2.91 | 0.77 | 0.77 |
| 7.75 | 9.63 | 14.81 | 7.46 | 110.40 | 2.92 | 0.77 | 0.77 |
| 7.79 | 9.70 | 14.91 | 7.43 | 110.74 | 2.92 | 0.77 | 0.77 |
| 7.89 | 9.97 | 15.33 | 7.19 | 110.22 | 2.90 | 0.77 | 0.77 |
| 7.99 | 10.24 | 15.76 | 6.97 | 109.89 | 2.88 | 0.77 | 0.77 |
| 8.04 | 10.34 | 15.91 | 6.96 | 110.71 | 2.88 | 0.77 | 0.77 |
| 8.13 | 10.31 | 15.85 | 7.03 | 111.39 | 2.89 | 0.77 | 0.77 |
| 8.23 | 10.27 | 15.79 | 6.35 | 100.23 | 2.84 | 0.75 | 0.75 |
| 8.32 | 10.27 | 15.77 | 5.78 | 91.18 | 2.79 | 0.73 | 0.73 |
| 8.37 | 10.53 | 16.20 | 5.34 | 86.47 | 2.76 | 0.72 | 0.72 |
| 8.46 | 11.04 | 17.00 | 5.74 | 97.61 | 2.79 | 0.74 | 0.74 |
| 8.56 | 11.30 | 17.42 | 6.05 | 105.35 | 2.82 | 0.76 | 0.76 |
| 8.59 | 11.30 | 17.41 | 6.35 | 110.51 | 2.84 | 0.77 | 0.77 |
| 8.61 | 11.03 | 16.97 | 6.71 | 113.97 | 2.87 | 0.77 | 0.77 |
| 8.67 | 10.89 | 16.75 | 6.98 | 116.82 | 2.88 | 0.78 | 0.78 |
| 8.71 | 10.69 | 16.41 | 7.24 | 118.78 | 2.90 | 0.78 | 0.78 |
| 8.72 | 10.51 | 16.13 | 7.46 | 120.30 | 2.92 | 0.78 | 0.78 |
| 8.78 | 10.44 | 16.02 | 7.56 | 121.13 | 2.92 | 0.78 | 0.78 |
| 8.80 | 10.44 | 16.02 | 7.59 | 121.54 | 2.93 | 0.79 | 0.79 |
| 8.86 | 10.44 | 16.01 | 7.60 | 121.62 | 2.93 | 0.79 | 0.79 |
| 8.90 | 10.55 | 16.17 | 7.55 | 122.08 | 2.92 | 0.79 | 0.79 |
| 8.95 | 10.68 | 16.39 | 7.49 | 122.77 | 2.92 | 0.79 | 0.79 |
| 8.96 | 10.89 | 16.71 | 7.39 | 123.54 | 2.91 | 0.79 | 0.79 |
| 9.00 | 11.05 | 16.98 | 7.33 | 124.43 | 2.91 | 0.79 | 0.79 |
| 9.05 | 11.29 | 17.35 | 7.24 | 125.55 | 2.90 | 0.79 | 0.79 |
| 9.09 | 11.56 | 17.78 | 7.10 | 126.26 | 2.89 | 0.79 | 0.79 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 9.10 | 11.96 | 18.43 | 6.89 | 127.03 | 2.88 | 0.79 | 0.79 |
| 9.14 | 12.47 | 19.24 | 6.66 | 128.15 | 2.86 | 0.80 | 0.80 |
| 9.20 | 13.21 | 20.42 | 6.33 | 129.23 | 2.84 | 0.80 | 0.80 |
| 9.24 | 14.09 | 21.83 | 5.95 | 129.98 | 2.81 | 0.80 | 0.80 |
| 9.29 | 15.03 | 23.34 | 5.57 | 129.97 | 2.78 | 0.80 | 0.80 |
| 9.31 | 15.90 | 24.74 | 5.28 | 130.54 | 2.75 | 0.80 | 0.80 |
| 9.38 | 16.61 | 25.88 | 5.06 | 130.87 | 2.73 | 0.80 | 0.80 |
| 9.41 | 17.32 | 27.00 | 4.80 | 129.53 | 2.71 | 0.80 | 0.80 |
| 9.47 | 18.02 | 28.13 | 4.48 | 126.15 | 2.68 | 0.79 | 0.79 |
| 9.53 | 19.33 | 30.23 | 3.91 | 118.10 | 2.62 | 0.78 | 0.78 |
| 9.62 | 21.08 | 33.03 | 3.29 | 108.83 | 2.54 | 0.76 | 0.76 |
| 9.67 | 23.71 | 36.88 | 2.63 | 97.08 | 2.45 | 0.74 | 0.74 |
| 9.77 | 26.25 | 39.96 | 2.22 | 88.55 | 2.37 | 0.73 | 0.73 |
| 9.81 | 28.83 | 43.12 | 1.89 | 81.52 | 2.29 | 0.66 | 0.71 |
| 9.90 | 30.67 | 45.16 | 1.72 | 77.57 | 2.24 | 0.48 | 0.70 |
| 9.97 | 32.26 | 46.92 | 1.61 | 75.55 | 2.20 | 0.40 | 0.70 |
| 10.06 | 32.63 | 47.13 | 1.61 | 75.67 | 2.20 | 0.41 | 0.70 |
| 10.20 | 32.13 | 46.19 | 1.68 | 77.59 | 2.22 | 0.48 | 0.70 |
| 10.30 | 29.29 | 42.06 | 1.79 | 75.15 | 2.26 | 0.39 | 0.70 |
| 10.44 | 25.52 | 36.67 | 2.06 | 75.52 | 2.33 | 0.40 | 0.70 |
| 10.54 | 20.70 | 30.03 | 2.66 | 79.87 | 2.45 | 0.58 | 0.71 |
| 10.63 | 16.56 | 24.49 | 4.08 | 99.92 | 2.64 | 0.75 | 0.75 |
| 10.74 | 13.83 | 20.66 | 5.64 | 116.62 | 2.78 | 0.78 | 0.78 |
| 10.78 | 12.62 | 18.99 | 6.71 | 127.39 | 2.86 | 0.79 | 0.79 |
| 10.83 | 12.48 | 18.76 | 6.96 | 130.59 | 2.88 | 0.80 | 0.80 |
| 10.88 | 12.31 | 18.47 | 7.21 | 133.16 | 2.90 | 0.80 | 0.80 |
| 10.89 | 12.15 | 18.24 | 7.50 | 136.86 | 2.92 | 0.81 | 0.81 |
| 10.97 | 12.25 | 18.30 | 7.62 | 139.36 | 2.93 | 0.81 | 0.81 |
| 11.02 | 12.48 | 18.59 | 7.62 | 141.70 | 2.93 | 0.82 | 0.82 |
| 11.07 | 12.79 | 18.96 | 7.51 | 142.37 | 2.92 | 0.82 | 0.82 |
| 11.11 | 13.06 | 19.28 | 7.42 | 143.00 | 2.91 | 0.82 | 0.82 |
| 11.16 | 13.39 | 19.70 | 7.30 | 143.71 | 2.91 | 0.82 | 0.82 |
| 11.21 | 13.76 | 20.15 | 7.19 | 144.81 | 2.90 | 0.82 | 0.82 |
| 11.26 | 14.14 | 20.62 | 7.10 | 146.37 | 2.89 | 0.82 | 0.82 |
| 11.30 | 14.37 | 20.90 | 7.10 | 148.42 | 2.89 | 0.82 | 0.82 |
| 11.36 | 14.54 | 21.07 | 7.14 | 150.43 | 2.90 | 0.83 | 0.83 |
| 11.40 | 14.68 | 21.19 | 7.17 | 151.92 | 2.90 | 0.83 | 0.83 |
| 11.45 | 14.81 | 21.32 | 7.18 | 152.97 | 2.90 | 0.83 | 0.83 |
| 11.50 | 15.04 | 21.57 | 7.12 | 153.64 | 2.89 | 0.83 | 0.83 |
| 11.55 | 15.31 | 21.86 | 7.06 | 154.44 | 2.89 | 0.83 | 0.83 |
| 11.60 | 15.85 | 22.53 | 6.88 | 155.07 | 2.88 | 0.83 | 0.83 |
| 11.66 | 16.56 | 23.39 | 6.63 | 155.14 | 2.86 | 0.83 | 0.83 |
| 11.74 | 17.40 | 24.38 | 6.31 | 153.92 | 2.84 | 0.83 | 0.83 |
| 11.84 | 17.98 | 24.97 | 6.15 | 153.46 | 2.82 | 0.83 | 0.83 |
| 11.93 | 18.18 | 25.08 | 6.17 | 154.65 | 2.82 | 0.83 | 0.83 |
| 12.04 | 18.04 | 24.73 | 6.38 | 157.76 | 2.84 | 0.84 | 0.84 |
| 12.13 | 17.87 | 24.37 | 6.58 | 160.42 | 2.86 | 0.84 | 0.84 |
| 12.22 | 17.67 | 23.94 | 6.76 | 161.87 | 2.87 | 0.84 | 0.84 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 12.27 | 17.51 | 23.64 | 6.85 | 161.93 | 2.88 | 0.84 | 0.84 |
| 12.37 | 17.27 | 23.16 | 6.98 | 161.58 | 2.88 | 0.84 | 0.84 |
| 12.41 | 17.17 | 22.94 | 7.03 | 161.26 | 2.89 | 0.84 | 0.84 |
| 12.51 | 17.06 | 22.65 | 7.13 | 161.48 | 2.89 | 0.84 | 0.84 |
| 12.56 | 17.23 | 22.78 | 7.08 | 161.37 | 2.89 | 0.84 | 0.84 |
| 12.65 | 17.64 | 23.15 | 6.96 | 161.03 | 2.88 | 0.84 | 0.84 |
| 12.71 | 18.45 | 24.09 | 6.70 | 161.44 | 2.86 | 0.84 | 0.84 |
| 12.79 | 19.23 | 24.96 | 6.59 | 164.56 | 2.86 | 0.85 | 0.85 |
| 12.89 | 20.10 | 25.92 | 6.50 | 168.54 | 2.85 | 0.85 | 0.85 |
| 12.96 | 20.98 | 26.96 | 6.43 | 173.33 | 2.84 | 0.86 | 0.86 |
| 13.04 | 22.23 | 28.37 | 6.15 | 174.57 | 2.82 | 0.86 | 0.86 |
| 13.13 | 24.11 | 30.49 | 5.62 | 171.40 | 2.78 | 0.85 | 0.85 |
| 13.23 | 26.80 | 33.27 | 4.19 | 139.58 | 2.65 | 0.81 | 0.81 |
| 13.30 | 30.34 | 36.95 | 2.91 | 107.47 | 2.49 | 0.76 | 0.76 |
| 13.37 | 34.15 | 40.77 | 2.02 | 82.17 | 2.32 | 0.70 | 0.71 |
| 13.47 | 38.32 | 45.44 | 1.87 | 85.15 | 2.29 | 0.72 | 0.72 |
| 13.57 | 38.79 | 45.84 | 1.94 | 89.15 | 2.31 | 0.73 | 0.73 |
| 13.61 | 39.19 | 46.27 | 1.98 | 91.39 | 2.31 | 0.73 | 0.73 |
| 13.62 | 40.31 | 47.52 | 1.94 | 92.31 | 2.30 | 0.73 | 0.73 |
| 13.68 | 44.31 | 51.92 | 1.78 | 92.36 | 2.26 | 0.73 | 0.73 |
| 13.73 | 47.82 | 55.76 | 1.68 | 93.57 | 2.22 | 0.74 | 0.74 |
| 13.77 | 50.08 | 58.23 | 1.65 | 95.79 | 2.21 | 0.74 | 0.74 |
| 13.87 | 52.91 | 61.16 | 1.61 | 98.26 | 2.20 | 0.74 | 0.74 |
| 13.93 | 55.78 | 64.26 | 1.58 | 101.41 | 2.19 | 0.75 | 0.75 |
| 14.00 | 58.54 | 67.15 | 1.55 | 104.21 | 2.17 | 0.76 | 0.76 |
| 14.06 | 60.62 | 69.33 | 1.54 | 106.89 | 2.17 | 0.76 | 0.76 |
| 14.12 | 62.21 | 70.95 | 1.54 | 109.37 | 2.17 | 0.77 | 0.77 |
| 14.21 | 63.05 | 71.63 | 1.55 | 111.13 | 2.17 | 0.77 | 0.77 |
| 14.25 | 63.45 | 71.96 | 1.56 | 112.44 | 2.18 | 0.77 | 0.77 |
| 14.35 | 63.35 | 71.51 | 1.58 | 112.67 | 2.18 | 0.77 | 0.77 |
| 14.45 | 62.61 | 70.37 | 1.60 | 112.38 | 2.19 | 0.77 | 0.77 |
| 14.50 | 61.06 | 68.50 | 1.63 | 111.75 | 2.21 | 0.77 | 0.77 |
| 14.59 | 59.18 | 66.15 | 1.68 | 111.04 | 2.22 | 0.77 | 0.77 |
| 14.64 | 57.19 | 63.82 | 1.73 | 110.49 | 2.24 | 0.77 | 0.77 |
| 14.74 | 55.60 | 61.79 | 1.78 | 110.08 | 2.26 | 0.77 | 0.77 |
| 14.80 | 54.22 | 60.12 | 1.83 | 109.86 | 2.27 | 0.77 | 0.77 |
| 14.88 | 53.18 | 58.73 | 1.87 | 109.70 | 2.28 | 0.77 | 0.77 |
| 14.97 | 52.24 | 57.45 | 1.91 | 109.62 | 2.30 | 0.77 | 0.77 |
| 15.05 | 51.43 | 56.38 | 1.95 | 110.04 | 2.31 | 0.77 | 0.77 |
| 15.13 | 50.85 | 55.53 | 1.99 | 110.56 | 2.32 | 0.77 | 0.77 |
| 15.21 | 50.95 | 55.42 | 1.99 | 110.46 | 2.32 | 0.77 | 0.77 |
| 15.28 | 52.23 | 56.58 | 1.93 | 109.48 | 2.30 | 0.77 | 0.77 |
| 15.36 | 55.10 | 59.37 | 1.82 | 108.07 | 2.27 | 0.76 | 0.76 |
| 15.41 | 60.22 | 64.61 | 1.66 | 107.30 | 2.22 | 0.76 | 0.76 |
| 15.50 | 66.38 | 70.74 | 1.53 | 108.00 | 2.16 | 0.76 | 0.76 |
| 15.55 | 72.78 | 77.07 | 1.38 | 106.45 | 2.07 | 0.76 | 0.76 |
| 15.65 | 76.92 | 80.83 | 1.31 | 105.71 | 2.00 | 0.76 | 0.76 |
| 15.71 | 78.17 | 81.68 | 1.27 | 103.43 | 1.94 | 0.75 | 0.75 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 15.79 | 75.07 | 78.22 | 1.28 | 99.99 | 1.96 | 0.75 | 0.75 |
| 15.89 | 67.29 | 69.97 | 1.33 | 92.88 | 2.02 | 0.73 | 0.73 |
| 15.90 | 61.09 | 63.58 | 1.38 | 88.03 | 2.07 | 0.72 | 0.72 |
| 15.94 | 56.21 | 58.47 | 1.45 | 84.99 | 2.12 | 0.72 | 0.72 |
| 16.00 | 53.24 | 55.28 | 1.51 | 83.45 | 2.15 | 0.71 | 0.71 |
| 16.06 | 47.68 | 49.45 | 1.67 | 82.65 | 2.22 | 0.71 | 0.71 |
| 16.14 | 40.74 | 42.17 | 2.02 | 85.02 | 2.32 | 0.72 | 0.72 |
| 16.19 | 34.10 | 35.24 | 2.56 | 90.26 | 2.43 | 0.73 | 0.73 |
| 16.26 | 27.10 | 27.88 | 3.51 | 97.89 | 2.57 | 0.74 | 0.74 |
| 16.33 | 21.54 | 22.01 | 4.74 | 104.24 | 2.70 | 0.76 | 0.76 |
| 16.38 | 17.06 | 17.28 | 6.24 | 107.80 | 2.83 | 0.76 | 0.76 |
| 16.47 | 14.43 | 14.45 | 7.58 | 109.50 | 2.93 | 0.77 | 0.77 |
| 16.54 | 12.64 | 12.69 | 8.71 | 110.54 | 3.00 | 0.77 | 0.77 |
| 16.62 | 11.80 | 11.71 | 9.67 | 113.31 | 3.05 | 0.52 | 0.84 |
| 16.70 | 11.53 | 11.36 | 10.18 | 115.66 | 3.08 | 0.56 | 0.81 |
| 16.76 | 12.28 | 12.12 | 9.88 | 119.66 | 3.06 | 0.59 | 0.87 |
| 16.86 | 14.88 | 14.80 | 8.08 | 119.59 | 2.96 | 0.78 | 0.78 |
| 16.90 | 19.33 | 19.15 | 6.07 | 116.24 | 2.82 | 0.78 | 0.78 |
| 16.98 | 25.84 | 25.69 | 4.22 | 108.51 | 2.65 | 0.76 | 0.76 |
| 17.05 | 35.42 | 35.23 | 2.81 | 99.11 | 2.48 | 0.75 | 0.75 |
| 17.14 | 47.54 | 47.19 | 1.94 | 91.71 | 2.30 | 0.73 | 0.73 |
| 17.20 | 61.48 | 60.90 | 1.51 | 91.88 | 2.15 | 0.73 | 0.73 |
| 17.29 | 73.03 | 72.03 | 1.35 | 97.56 | 2.05 | 0.74 | 0.74 |
| 17.34 | 81.99 | 80.70 | 1.30 | 104.58 | 1.99 | 0.76 | 0.76 |
| 17.44 | 86.87 | 85.21 | 1.28 | 109.31 | 1.97 | 0.76 | 0.76 |
| 17.50 | 88.89 | 86.96 | 1.26 | 109.36 | 1.93 | 0.76 | 0.76 |
| 17.58 | 88.15 | 85.91 | 1.24 | 106.78 | 1.91 | 0.76 | 0.76 |
| 17.64 | 85.02 | 82.63 | 1.24 | 102.13 | 1.90 | 0.75 | 0.75 |
| 17.75 | 80.50 | 77.97 | 1.27 | 99.12 | 1.95 | 0.75 | 0.75 |
| 17.82 | 72.08 | 69.66 | 1.35 | 93.80 | 2.04 | 0.74 | 0.74 |
| 17.89 | 66.02 | 63.60 | 1.43 | 91.18 | 2.11 | 0.73 | 0.73 |
| 17.89 | 62.68 | 60.37 | 1.51 | 91.04 | 2.15 | 0.73 | 0.73 |
| 17.96 | 64.06 | 61.55 | 1.50 | 92.30 | 2.15 | 0.73 | 0.73 |
| 18.02 | 65.34 | 62.67 | 1.51 | 94.33 | 2.15 | 0.74 | 0.74 |
| 18.07 | 66.86 | 64.01 | 1.51 | 96.43 | 2.15 | 0.74 | 0.74 |
| 18.17 | 68.78 | 65.62 | 1.49 | 98.02 | 2.14 | 0.74 | 0.74 |
| 18.22 | 68.74 | 65.47 | 1.51 | 98.54 | 2.15 | 0.75 | 0.75 |
| 18.30 | 65.20 | 61.85 | 1.59 | 98.20 | 2.19 | 0.74 | 0.74 |
| 18.36 | 57.69 | 54.52 | 1.83 | 99.83 | 2.27 | 0.75 | 0.75 |
| 18.42 | 49.20 | 46.28 | 2.30 | 106.36 | 2.39 | 0.76 | 0.76 |
| 18.50 | 39.97 | 37.31 | 3.16 | 118.00 | 2.53 | 0.78 | 0.78 |
| 18.56 | 32.38 | 29.97 | 4.32 | 129.55 | 2.66 | 0.80 | 0.80 |
| 18.62 | 25.71 | 23.53 | 5.80 | 136.40 | 2.80 | 0.81 | 0.81 |
| 18.69 | 23.96 | 21.78 | 6.13 | 133.60 | 2.82 | 0.80 | 0.80 |
| 18.76 | 22.21 | 20.05 | 6.60 | 132.24 | 2.86 | 0.80 | 0.80 |
| 18.84 | 24.30 | 21.95 | 5.90 | 129.41 | 2.80 | 0.80 | 0.80 |
| 18.89 | 31.88 | 29.04 | 4.26 | 123.66 | 2.66 | 0.79 | 0.79 |
| 18.98 | 52.85 | 48.61 | 2.23 | 108.20 | 2.37 | 0.76 | 0.76 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 19.05 | 78.42 | 72.48 | 1.52 | 110.23 | 2.16 | 0.77 | 0.77 |
| 19.12 | 101.80 | 94.21 | 1.32 | 124.65 | 2.02 | 0.79 | 0.79 |
| 19.18 | 115.88 | 107.18 | 1.27 | 136.09 | 1.95 | 0.81 | 0.81 |
| 19.24 | 124.07 | 114.61 | 1.25 | 142.72 | 1.91 | 0.82 | 0.82 |
| 19.32 | 126.76 | 116.83 | 1.24 | 144.84 | 1.90 | 0.82 | 0.82 |
| 19.38 | 126.53 | 116.38 | 1.25 | 145.16 | 1.92 | 0.82 | 0.82 |
| 19.46 | 124.81 | 114.42 | 1.26 | 144.25 | 1.94 | 0.82 | 0.82 |
| 19.54 | 122.62 | 112.08 | 1.28 | 142.92 | 1.96 | 0.82 | 0.82 |
| 19.62 | 121.00 | 110.26 | 1.28 | 141.68 | 1.97 | 0.82 | 0.82 |
| 19.70 | 119.99 | 109.01 | 1.29 | 140.65 | 1.98 | 0.81 | 0.81 |
| 19.80 | 119.75 | 108.41 | 1.29 | 140.01 | 1.98 | 0.81 | 0.81 |
| 19.85 | 119.75 | 108.23 | 1.29 | 139.71 | 1.98 | 0.81 | 0.81 |
| 19.94 | 119.95 | 108.07 | 1.29 | 139.71 | 1.98 | 0.81 | 0.81 |
| 20.03 | 120.73 | 108.50 | 1.28 | 138.61 | 1.96 | 0.81 | 0.81 |
| 20.13 | 121.84 | 109.19 | 1.26 | 137.92 | 1.94 | 0.81 | 0.81 |
| 20.19 | 123.33 | 110.40 | 1.25 | 137.60 | 1.91 | 0.81 | 0.81 |
| 20.29 | 124.05 | 110.67 | 1.25 | 138.32 | 1.92 | 0.81 | 0.81 |
| 20.39 | 124.51 | 110.70 | 1.25 | 138.76 | 1.93 | 0.81 | 0.81 |
| 20.43 | 124.14 | 110.23 | 1.26 | 138.70 | 1.93 | 0.81 | 0.81 |
| 20.47 | 124.09 | 109.99 | 1.26 | 138.78 | 1.94 | 0.81 | 0.81 |
| 20.52 | 123.97 | 109.69 | 1.27 | 139.06 | 1.95 | 0.81 | 0.81 |
| 20.61 | 123.97 | 109.33 | 1.27 | 139.29 | 1.96 | 0.81 | 0.81 |
| 20.66 | 123.26 | 108.48 | 1.28 | 139.08 | 1.97 | 0.81 | 0.81 |
| 20.71 | 122.22 | 107.35 | 1.29 | 138.34 | 1.98 | 0.81 | 0.81 |
| 20.77 | 121.00 | 106.04 | 1.30 | 137.35 | 1.99 | 0.81 | 0.81 |
| 20.85 | 120.53 | 105.33 | 1.30 | 136.79 | 1.99 | 0.81 | 0.81 |
| 20.91 | 120.63 | 105.23 | 1.30 | 136.74 | 1.99 | 0.81 | 0.81 |
| 21.00 | 121.00 | 105.23 | 1.30 | 136.71 | 1.99 | 0.81 | 0.81 |
| 21.05 | 120.93 | 105.01 | 1.30 | 136.53 | 1.99 | 0.81 | 0.81 |
| 21.11 | 120.50 | 104.40 | 1.30 | 136.06 | 2.00 | 0.81 | 0.81 |
| 21.19 | 120.16 | 103.82 | 1.31 | 135.66 | 2.00 | 0.81 | 0.81 |
| 21.24 | 120.23 | 103.70 | 1.31 | 135.67 | 2.00 | 0.81 | 0.81 |
| 21.34 | 120.39 | 103.52 | 1.31 | 135.57 | 2.00 | 0.81 | 0.81 |
| 21.39 | 119.99 | 103.00 | 1.31 | 135.16 | 2.01 | 0.81 | 0.81 |
| 21.48 | 118.68 | 101.52 | 1.32 | 133.84 | 2.01 | 0.80 | 0.80 |
| 21.53 | 116.39 | 99.34 | 1.33 | 131.86 | 2.02 | 0.80 | 0.80 |
| 21.64 | 113.86 | 96.79 | 1.34 | 129.36 | 2.03 | 0.80 | 0.80 |
| 21.72 | 111.80 | 94.83 | 1.33 | 125.65 | 2.02 | 0.79 | 0.79 |
| 21.81 | 110.79 | 93.80 | 1.31 | 122.48 | 2.00 | 0.79 | 0.79 |
| 21.89 | 110.52 | 93.48 | 1.28 | 120.09 | 1.97 | 0.78 | 0.78 |
| 21.97 | 110.69 | 93.44 | 1.28 | 119.40 | 1.96 | 0.78 | 0.78 |
| 22.05 | 110.81 | 93.32 | 1.27 | 118.94 | 1.96 | 0.78 | 0.78 |
| 22.12 | 110.92 | 93.25 | 1.27 | 118.64 | 1.95 | 0.78 | 0.78 |
| 22.13 | 110.89 | 93.20 | 1.27 | 118.54 | 1.95 | 0.78 | 0.78 |
| 22.18 | 111.98 | 94.01 | 1.27 | 119.22 | 1.95 | 0.78 | 0.78 |
| 22.22 | 114.49 | 96.10 | 1.26 | 121.02 | 1.93 | 0.78 | 0.78 |
| 22.28 | 118.47 | 99.41 | 1.25 | 123.90 | 1.91 | 0.79 | 0.79 |
| 22.33 | 122.55 | 102.85 | 1.23 | 126.89 | 1.90 | 0.79 | 0.79 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 22.38 | 126.36 | 106.02 | 1.22 | 129.64 | 1.88 | 0.80 | 0.80 |
| 22.41 | 129.99 | 109.11 | 1.21 | 132.05 | 1.86 | 0.80 | 0.80 |
| 22.51 | 133.16 | 111.59 | 1.20 | 133.67 | 1.85 | 0.80 | 0.80 |
| 22.56 | 135.86 | 113.83 | 1.18 | 134.77 | 1.83 | 0.81 | 0.81 |
| 22.61 | 137.68 | 115.29 | 1.17 | 135.13 | 1.82 | 0.81 | 0.81 |
| 22.65 | 139.23 | 116.56 | 1.16 | 135.07 | 1.81 | 0.81 | 0.81 |
| 22.71 | 140.30 | 117.38 | 1.15 | 134.57 | 1.79 | 0.81 | 0.81 |
| 22.76 | 141.15 | 118.01 | 1.13 | 133.54 | 1.78 | 0.80 | 0.80 |
| 22.85 | 141.55 | 118.16 | 1.12 | 132.33 | 1.77 | 0.80 | 0.80 |
| 22.89 | 141.79 | 118.28 | 1.11 | 131.19 | 1.77 | 0.80 | 0.80 |
| 22.99 | 141.85 | 118.07 | 1.10 | 130.38 | 1.76 | 0.80 | 0.80 |
| 23.04 | 142.19 | 118.24 | 1.10 | 129.89 | 1.76 | 0.80 | 0.80 |
| 23.12 | 143.24 | 118.92 | 1.09 | 129.72 | 1.75 | 0.80 | 0.80 |
| 23.18 | 145.12 | 120.36 | 1.08 | 129.86 | 1.75 | 0.80 | 0.80 |
| 23.24 | 147.55 | 122.28 | 1.07 | 130.48 | 1.74 | 0.80 | 0.80 |
| 23.33 | 150.28 | 124.35 | 1.05 | 131.06 | 1.73 | 0.80 | 0.80 |
| 23.38 | 152.77 | 126.31 | 1.04 | 131.98 | 1.73 | 0.80 | 0.80 |
| 23.47 | 154.92 | 127.86 | 1.04 | 132.70 | 1.72 | 0.80 | 0.80 |
| 23.52 | 155.87 | 128.46 | 1.05 | 134.34 | 1.73 | 0.80 | 0.80 |
| 23.61 | 155.50 | 127.76 | 1.06 | 136.02 | 1.74 | 0.81 | 0.81 |
| 23.68 | 153.41 | 125.65 | 1.10 | 137.67 | 1.76 | 0.81 | 0.81 |
| 23.76 | 149.87 | 122.29 | 1.13 | 137.84 | 1.78 | 0.81 | 0.81 |
| 23.83 | 145.42 | 118.19 | 1.16 | 136.72 | 1.80 | 0.81 | 0.81 |
| 23.90 | 140.77 | 113.95 | 1.18 | 134.56 | 1.83 | 0.81 | 0.81 |
| 23.97 | 136.02 | 109.66 | 1.20 | 131.87 | 1.85 | 0.80 | 0.80 |
| 24.05 | 130.36 | 104.58 | 1.22 | 128.11 | 1.88 | 0.80 | 0.80 |
| 24.10 | 123.83 | 98.86 | 1.25 | 123.41 | 1.92 | 0.79 | 0.79 |
| 24.19 | 116.14 | 92.13 | 1.28 | 117.58 | 1.96 | 0.78 | 0.78 |
| 24.27 | 109.37 | 86.22 | 1.31 | 112.54 | 2.00 | 0.77 | 0.77 |
| 24.34 | 103.31 | 80.98 | 1.34 | 108.37 | 2.03 | 0.76 | 0.76 |
| 24.43 | 99.26 | 77.39 | 1.37 | 105.81 | 2.06 | 0.76 | 0.76 |
| 24.48 | 95.99 | 74.54 | 1.40 | 104.29 | 2.09 | 0.76 | 0.76 |
| 24.57 | 93.77 | 72.46 | 1.43 | 103.72 | 2.11 | 0.75 | 0.75 |
| 24.62 | 91.81 | 70.77 | 1.45 | 102.28 | 2.12 | 0.75 | 0.75 |
| 24.72 | 90.33 | 69.37 | 1.46 | 101.12 | 2.12 | 0.75 | 0.75 |
| 24.81 | 89.08 | 68.17 | 1.47 | 100.03 | 2.13 | 0.75 | 0.75 |
| 24.86 | 87.96 | 67.09 | 1.50 | 100.81 | 2.15 | 0.75 | 0.75 |
| 24.95 | 85.18 | 64.60 | 1.56 | 100.88 | 2.18 | 0.75 | 0.75 |
| 25.01 | 82.83 | 62.55 | 1.62 | 101.05 | 2.20 | 0.75 | 0.75 |
| 25.02 | 81.04 | 61.07 | 1.66 | 101.09 | 2.22 | 0.75 | 0.75 |
| 25.05 | 81.81 | 61.63 | 1.64 | 101.34 | 2.21 | 0.75 | 0.75 |
| 25.11 | 82.33 | 61.92 | 1.64 | 101.59 | 2.21 | 0.75 | 0.75 |
| 25.15 | 82.53 | 61.99 | 1.64 | 101.87 | 2.21 | 0.75 | 0.75 |
| 25.21 | 81.92 | 61.38 | 1.66 | 101.94 | 2.22 | 0.75 | 0.75 |
| 25.25 | 81.07 | 60.61 | 1.68 | 101.90 | 2.23 | 0.75 | 0.75 |
| 25.30 | 79.78 | 59.50 | 1.70 | 101.32 | 2.23 | 0.75 | 0.75 |
| 25.40 | 78.02 | 57.95 | 1.73 | 100.17 | 2.24 | 0.75 | 0.75 |
| 25.45 | 75.14 | 55.63 | 1.77 | 98.38 | 2.25 | 0.75 | 0.75 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 25.52 | 71.36 | 52.56 | 1.83 | 96.28 | 2.27 | 0.74 | 0.74 |
| 25.60 | 65.60 | 47.92 | 1.99 | 95.12 | 2.32 | 0.74 | 0.74 |
| 25.66 | 58.89 | 42.57 | 2.24 | 95.48 | 2.37 | 0.74 | 0.74 |
| 25.74 | 50.63 | 36.01 | 2.77 | 99.69 | 2.47 | 0.75 | 0.75 |
| 25.80 | 42.60 | 29.74 | 3.54 | 105.15 | 2.57 | 0.76 | 0.76 |
| 25.88 | 34.42 | 23.44 | 4.79 | 112.31 | 2.71 | 0.77 | 0.77 |
| 25.94 | 27.91 | 18.51 | 6.33 | 117.20 | 2.84 | 0.78 | 0.78 |
| 26.02 | 22.69 | 14.10 | 8.40 | 118.43 | 2.98 | 0.78 | 0.78 |
| 26.09 | 19.19 | 11.73 | 10.09 | 118.41 | 3.07 | 0.59 | 0.84 |
| 26.17 | 16.36 | 9.82 | 11.90 | 116.89 | 3.16 | 0.54 | 0.70 |
| 26.23 | 14.50 | 8.57 | 13.49 | 115.61 | 3.23 | 0.51 | 0.61 |
| 26.29 | 13.56 | 7.93 | 14.54 | 115.33 | 3.28 | 0.51 | 0.57 |
| 26.37 | 13.73 | 8.01 | 14.49 | 116.10 | 3.27 | 0.51 | 0.57 |
| 26.46 | 14.95 | 8.78 | 13.45 | 118.10 | 3.23 | 0.54 | 0.63 |
| 26.55 | 16.56 | 9.80 | 12.25 | 120.00 | 3.18 | 0.59 | 0.70 |
| 26.60 | 18.04 | 10.74 | 11.37 | 122.14 | 3.14 | 0.60 | 0.77 |
| 26.70 | 18.79 | 11.18 | 11.11 | 124.24 | 3.12 | 0.63 | 0.80 |
| 26.78 | 19.09 | 11.34 | 11.11 | 125.96 | 3.12 | 0.67 | 0.81 |
| 26.87 | 19.16 | 11.34 | 10.61 | 120.33 | 3.10 | 0.66 | 0.81 |
| 26.94 | 19.06 | 11.25 | 9.74 | 109.55 | 3.05 | 0.47 | 0.80 |
| 27.03 | 18.62 | 10.92 | 9.23 | 100.80 | 3.03 | 0.36 | 0.78 |
| 27.13 | 17.84 | 10.38 | 9.61 | 99.83 | 3.05 | 0.42 | 0.74 |
| 27.18 | 15.89 | 9.12 | 11.41 | 104.10 | 3.14 | 0.42 | 0.65 |
| 27.27 | 14.61 | 8.27 | 12.75 | 105.48 | 3.20 | 0.42 | 0.59 |
| 27.32 | 14.00 | 7.87 | 13.55 | 106.67 | 3.23 | 0.43 | 0.56 |
| 27.37 | 14.68 | 8.28 | 12.99 | 107.59 | 3.21 | 0.44 | 0.59 |
| 27.41 | 15.01 | 8.48 | 12.84 | 108.89 | 3.20 | 0.46 | 0.61 |
| 27.46 | 15.01 | 8.47 | 13.04 | 110.36 | 3.21 | 0.47 | 0.60 |
| 27.51 | 15.19 | 8.56 | 13.12 | 112.25 | 3.22 | 0.48 | 0.61 |
| 27.61 | 15.69 | 8.84 | 13.00 | 114.96 | 3.21 | 0.51 | 0.63 |
| 27.66 | 16.81 | 9.52 | 12.66 | 120.53 | 3.20 | 0.56 | 0.68 |
| 27.73 | 19.30 | 11.05 | 11.59 | 128.02 | 3.15 | 0.66 | 0.79 |
| 27.80 | 22.77 | 13.18 | 10.46 | 137.91 | 3.09 | 0.80 | 0.94 |
| 27.88 | 26.51 | 15.46 | 9.62 | 148.75 | 3.05 | 0.98 | 1.10 |
| 27.96 | 28.73 | 16.78 | 9.46 | 158.82 | 3.04 | 1.16 | 1.20 |
| 28.04 | 29.44 | 17.16 | 9.86 | 169.19 | 3.06 | 1.25 | 1.23 |
| 28.12 | 29.30 | 17.02 | 10.34 | 175.99 | 3.09 | 1.41 | 1.22 |
| 28.18 | 29.78 | 17.27 | 10.47 | 180.83 | 3.09 | 1.43 | 1.23 |
| 28.27 | 30.99 | 17.95 | 10.11 | 181.45 | 3.07 | 1.47 | 1.28 |
| 28.32 | 32.84 | 19.04 | 9.54 | 181.70 | 3.04 | 1.48 | 1.36 |
| 28.42 | 34.90 | 20.22 | 8.98 | 181.66 | 3.01 | 1.51 | 1.44 |
| 28.47 | 37.02 | 21.47 | 8.57 | 183.98 | 2.99 | 0.87 | 0.87 |
| 28.61 | 38.87 | 22.47 | 8.32 | 186.93 | 2.97 | 0.87 | 0.87 |
| 28.67 | 40.79 | 23.57 | 8.10 | 190.99 | 2.96 | 0.88 | 0.88 |
| 28.75 | 43.62 | 26.58 | 7.37 | 195.90 | 2.91 | 0.88 | 0.88 |
| 28.81 | 49.52 | 30.58 | 6.28 | 192.19 | 2.83 | 0.88 | 0.88 |
| 28.90 | 59.16 | 37.21 | 4.89 | 181.92 | 2.72 | 0.87 | 0.87 |
| 29.00 | 70.68 | 45.27 | 3.75 | 169.71 | 2.60 | 0.85 | 0.85 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 29.05 | 82.68 | 53.82 | 2.95 | 158.84 | 2.50 | 0.84 | 0.84 |
| 29.10 | 92.58 | 60.99 | 2.48 | 151.03 | 2.42 | 0.83 | 0.83 |
| 29.15 | 101.07 | 67.24 | 2.13 | 143.11 | 2.35 | 0.82 | 0.82 |
| 29.24 | 105.88 | 70.82 | 1.92 | 136.02 | 2.30 | 0.81 | 0.81 |
| 29.29 | 107.45 | 72.19 | 1.78 | 128.66 | 2.26 | 0.80 | 0.80 |
| 29.37 | 106.66 | 71.76 | 1.71 | 122.57 | 2.23 | 0.79 | 0.79 |
| 29.43 | 105.44 | 71.05 | 1.64 | 116.77 | 2.21 | 0.78 | 0.78 |
| 29.53 | 104.90 | 70.72 | 1.59 | 112.38 | 2.19 | 0.77 | 0.77 |
| 29.62 | 104.73 | 70.61 | 1.55 | 109.62 | 2.17 | 0.77 | 0.77 |
| 29.68 | 104.75 | 70.73 | 1.51 | 106.89 | 2.15 | 0.76 | 0.76 |
| 29.80 | 104.42 | 70.36 | 1.50 | 105.63 | 2.15 | 0.76 | 0.76 |
| 29.91 | 103.80 | 69.74 | 1.50 | 104.61 | 2.15 | 0.76 | 0.76 |
| 30.00 | 99.10 | 65.97 | 1.59 | 104.86 | 2.19 | 0.76 | 0.76 |
| 30.07 | 97.42 | 64.55 | 1.63 | 105.36 | 2.21 | 0.76 | 0.76 |
| 30.15 | 96.27 | 63.56 | 1.66 | 105.54 | 2.22 | 0.76 | 0.76 |
| 30.21 | 99.04 | 65.49 | 1.62 | 105.77 | 2.20 | 0.76 | 0.76 |
| 30.26 | 98.71 | 65.16 | 1.62 | 105.66 | 2.20 | 0.76 | 0.76 |
| 30.31 | 97.50 | 64.21 | 1.64 | 105.39 | 2.21 | 0.76 | 0.76 |
| 30.38 | 95.52 | 62.65 | 1.67 | 104.86 | 2.22 | 0.76 | 0.76 |
| 30.45 | 92.62 | 60.44 | 1.72 | 104.23 | 2.24 | 0.76 | 0.76 |
| 30.50 | 89.12 | 57.84 | 1.79 | 103.72 | 2.26 | 0.75 | 0.75 |
| 30.55 | 84.94 | 54.79 | 1.88 | 102.88 | 2.29 | 0.75 | 0.75 |
| 30.64 | 81.19 | 52.03 | 1.96 | 101.83 | 2.31 | 0.75 | 0.75 |
| 30.70 | 77.93 | 49.71 | 2.01 | 100.16 | 2.32 | 0.75 | 0.75 |
| 30.79 | 76.04 | 48.30 | 2.05 | 98.96 | 2.33 | 0.75 | 0.75 |
| 30.84 | 75.47 | 47.86 | 2.05 | 98.19 | 2.33 | 0.74 | 0.74 |
| 30.93 | 76.95 | 48.79 | 2.01 | 98.05 | 2.32 | 0.74 | 0.74 |
| 30.98 | 80.15 | 50.98 | 1.93 | 98.14 | 2.30 | 0.74 | 0.74 |
| 31.05 | 85.34 | 54.54 | 1.81 | 98.98 | 2.27 | 0.75 | 0.75 |
| 31.13 | 91.57 | 58.82 | 1.71 | 100.51 | 2.24 | 0.75 | 0.75 |
| 31.17 | 100.46 | 65.08 | 1.58 | 102.97 | 2.19 | 0.75 | 0.75 |
| 31.27 | 110.94 | 72.52 | 1.47 | 106.25 | 2.13 | 0.76 | 0.76 |
| 31.32 | 123.23 | 81.52 | 1.37 | 111.37 | 2.06 | 0.77 | 0.77 |
| 31.41 | 133.45 | 89.03 | 1.31 | 116.56 | 2.00 | 0.78 | 0.78 |
| 31.46 | 140.90 | 94.67 | 1.28 | 120.72 | 1.96 | 0.78 | 0.78 |
| 31.52 | 144.37 | 97.40 | 1.26 | 122.24 | 1.93 | 0.79 | 0.79 |
| 31.61 | 145.01 | 97.95 | 1.24 | 121.83 | 1.91 | 0.79 | 0.79 |
| 31.66 | 142.15 | 95.90 | 1.24 | 119.20 | 1.91 | 0.78 | 0.78 |
| 31.75 | 136.69 | 91.66 | 1.26 | 115.29 | 1.93 | 0.78 | 0.78 |
| 31.80 | 129.14 | 85.76 | 1.29 | 110.68 | 1.98 | 0.77 | 0.77 |
| 31.90 | 122.00 | 80.16 | 1.33 | 106.52 | 2.02 | 0.76 | 0.76 |
| 31.94 | 116.84 | 76.18 | 1.37 | 104.07 | 2.06 | 0.76 | 0.76 |
| 32.04 | 116.03 | 75.33 | 1.38 | 104.00 | 2.07 | 0.76 | 0.76 |
| 32.09 | 119.17 | 77.25 | 1.39 | 107.23 | 2.08 | 0.76 | 0.76 |
| 32.20 | 118.70 | 76.38 | 1.43 | 109.06 | 2.11 | 0.76 | 0.76 |
| 32.24 | 117.72 | 75.37 | 1.47 | 110.44 | 2.13 | 0.77 | 0.77 |
| 32.28 | 114.69 | 73.02 | 1.51 | 110.26 | 2.15 | 0.77 | 0.77 |
| 32.29 | 116.70 | 74.43 | 1.49 | 111.09 | 2.14 | 0.77 | 0.77 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 32.30 | 118.93 | 75.98 | 1.47 | 112.06 | 2.13 | 0.77 | 0.77 |
| 32.40 | 120.51 | 76.91 | 1.47 | 112.71 | 2.13 | 0.77 | 0.77 |
| 32.45 | 120.48 | 76.77 | 1.47 | 112.95 | 2.13 | 0.77 | 0.77 |
| 32.55 | 119.13 | 75.61 | 1.49 | 112.51 | 2.14 | 0.77 | 0.77 |
| 32.59 | 118.33 | 74.91 | 1.50 | 112.50 | 2.15 | 0.77 | 0.77 |
| 32.69 | 118.13 | 74.54 | 1.51 | 112.79 | 2.15 | 0.77 | 0.77 |
| 32.76 | 118.09 | 74.31 | 1.53 | 113.51 | 2.16 | 0.77 | 0.77 |
| 32.84 | 118.40 | 74.31 | 1.54 | 114.35 | 2.17 | 0.77 | 0.77 |
| 32.90 | 119.00 | 74.55 | 1.55 | 115.19 | 2.17 | 0.77 | 0.77 |
| 32.98 | 119.95 | 75.02 | 1.54 | 115.83 | 2.17 | 0.78 | 0.78 |
| 33.06 | 121.02 | 75.61 | 1.54 | 116.33 | 2.17 | 0.78 | 0.78 |
| 33.12 | 122.10 | 76.23 | 1.53 | 116.77 | 2.16 | 0.78 | 0.78 |
| 33.22 | 122.84 | 76.56 | 1.53 | 117.03 | 2.16 | 0.78 | 0.78 |
| 33.31 | 123.21 | 76.64 | 1.53 | 117.14 | 2.16 | 0.78 | 0.78 |
| 33.37 | 123.28 | 76.59 | 1.53 | 117.11 | 2.16 | 0.78 | 0.78 |
| 33.46 | 123.28 | 76.41 | 1.53 | 117.00 | 2.16 | 0.78 | 0.78 |
| 33.55 | 123.18 | 76.17 | 1.54 | 117.00 | 2.17 | 0.78 | 0.78 |
| 33.65 | 122.98 | 75.83 | 1.54 | 117.07 | 2.17 | 0.78 | 0.78 |
| 33.70 | 122.57 | 75.42 | 1.55 | 117.18 | 2.17 | 0.78 | 0.78 |
| 33.79 | 122.03 | 74.86 | 1.56 | 117.10 | 2.18 | 0.78 | 0.78 |
| 33.89 | 121.09 | 74.04 | 1.58 | 116.76 | 2.18 | 0.78 | 0.78 |
| 33.99 | 119.77 | 72.98 | 1.59 | 116.20 | 2.19 | 0.78 | 0.78 |
| 34.04 | 117.79 | 71.55 | 1.61 | 115.43 | 2.20 | 0.78 | 0.78 |
| 34.13 | 115.49 | 69.85 | 1.64 | 114.59 | 2.21 | 0.77 | 0.77 |
| 34.23 | 112.70 | 67.80 | 1.68 | 113.76 | 2.22 | 0.77 | 0.77 |
| 34.32 | 110.27 | 66.01 | 1.71 | 113.20 | 2.24 | 0.77 | 0.77 |
| 34.37 | 108.22 | 64.55 | 1.75 | 112.84 | 2.25 | 0.77 | 0.77 |
| 34.47 | 106.60 | 63.31 | 1.78 | 112.69 | 2.26 | 0.77 | 0.77 |
| 34.55 | 103.47 | 61.05 | 1.85 | 112.96 | 2.28 | 0.77 | 0.77 |
| 34.63 | 96.66 | 56.31 | 2.04 | 114.64 | 2.33 | 0.77 | 0.77 |
| 34.73 | 86.37 | 49.33 | 2.40 | 118.21 | 2.40 | 0.78 | 0.78 |
| 34.80 | 72.76 | 40.42 | 3.06 | 123.59 | 2.51 | 0.79 | 0.79 |
| 34.90 | 60.46 | 32.62 | 3.90 | 127.28 | 2.62 | 0.79 | 0.79 |
| 35.00 | 54.92 | 29.29 | 4.16 | 121.79 | 2.64 | 0.79 | 0.79 |
| 35.12 | 50.37 | 26.54 | 4.42 | 117.31 | 2.67 | 0.78 | 0.78 |
| 35.20 | 52.86 | 28.11 | 3.99 | 112.19 | 2.63 | 0.77 | 0.77 |
| 35.33 | 53.65 | 28.43 | 4.02 | 114.42 | 2.63 | 0.77 | 0.77 |
| 35.41 | 63.41 | 34.44 | 3.20 | 110.34 | 2.53 | 0.77 | 0.77 |
| 35.44 | 68.58 | 37.68 | 2.87 | 108.02 | 2.48 | 0.76 | 0.76 |
| 35.48 | 76.82 | 42.96 | 2.42 | 103.82 | 2.41 | 0.76 | 0.76 |
| 35.57 | 84.09 | 47.63 | 2.12 | 101.05 | 2.35 | 0.75 | 0.75 |
| 35.62 | 98.70 | 57.30 | 1.73 | 98.99 | 2.24 | 0.75 | 0.75 |
| 35.67 | 115.40 | 68.51 | 1.49 | 102.07 | 2.14 | 0.75 | 0.75 |
| 35.71 | 137.52 | 83.52 | 1.35 | 112.52 | 2.04 | 0.77 | 0.77 |
| 35.82 | 159.89 | 98.71 | 1.28 | 126.36 | 1.96 | 0.79 | 0.79 |
| 35.86 | 185.11 | 116.11 | 1.23 | 143.07 | 1.89 | 0.82 | 0.82 |
| 35.93 | 207.72 | 131.80 | 1.19 | 156.85 | 1.84 | 0.84 | 0.84 |
| 36.01 | 225.38 | 144.00 | 1.16 | 166.33 | 1.80 | 0.85 | 0.85 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 36.06 | 235.57 | 150.92 | 1.14 | 171.69 | 1.79 | 0.85 | 0.85 |
| 36.12 | 240.67 | 154.12 | 1.13 | 174.89 | 1.78 | 0.86 | 0.86 |
| 36.18 | 245.05 | 156.73 | 1.14 | 178.20 | 1.79 | 0.86 | 0.86 |
| 36.25 | 248.69 | 158.84 | 1.14 | 180.98 | 1.79 | 0.87 | 0.87 |
| 36.30 | 251.52 | 160.26 | 1.15 | 184.12 | 1.80 | 0.87 | 0.87 |
| 36.39 | 252.83 | 160.54 | 1.16 | 185.99 | 1.81 | 0.87 | 0.87 |
| 36.44 | 253.07 | 160.15 | 1.17 | 187.57 | 1.82 | 0.87 | 0.87 |
| 36.53 | 251.49 | 158.45 | 1.18 | 187.51 | 1.83 | 0.87 | 0.87 |
| 36.59 | 248.39 | 155.45 | 1.21 | 187.43 | 1.86 | 0.87 | 0.87 |
| 36.68 | 243.47 | 151.62 | 1.22 | 184.49 | 1.87 | 0.87 | 0.87 |
| 36.75 | 238.34 | 147.93 | 1.22 | 180.99 | 1.88 | 0.87 | 0.87 |
| 36.83 | 232.04 | 143.78 | 1.22 | 175.91 | 1.88 | 0.86 | 0.86 |
| 36.90 | 225.27 | 138.95 | 1.23 | 171.34 | 1.89 | 0.85 | 0.85 |
| 36.97 | 217.18 | 133.11 | 1.25 | 166.05 | 1.92 | 0.85 | 0.85 |
| 37.02 | 201.72 | 122.19 | 1.28 | 156.23 | 1.96 | 0.84 | 0.84 |
| 37.04 | 193.70 | 116.64 | 1.30 | 151.13 | 1.99 | 0.83 | 0.83 |
| 37.08 | 188.61 | 113.19 | 1.30 | 147.61 | 2.00 | 0.82 | 0.82 |
| 37.17 | 191.78 | 115.46 | 1.29 | 148.65 | 1.97 | 0.83 | 0.83 |
| 37.27 | 187.30 | 112.45 | 1.29 | 145.04 | 1.98 | 0.82 | 0.82 |
| 37.37 | 181.37 | 108.42 | 1.30 | 140.68 | 1.99 | 0.81 | 0.81 |
| 37.42 | 177.21 | 105.83 | 1.30 | 137.22 | 1.99 | 0.81 | 0.81 |
| 37.51 | 175.89 | 105.19 | 1.29 | 135.25 | 1.97 | 0.81 | 0.81 |
| 37.58 | 176.97 | 106.34 | 1.27 | 134.76 | 1.95 | 0.81 | 0.81 |
| 37.66 | 179.01 | 108.07 | 1.25 | 135.08 | 1.92 | 0.81 | 0.81 |
| 37.76 | 182.58 | 110.83 | 1.23 | 136.26 | 1.89 | 0.81 | 0.81 |
| 37.85 | 186.08 | 113.57 | 1.21 | 137.18 | 1.86 | 0.81 | 0.81 |
| 37.93 | 189.62 | 116.22 | 1.19 | 138.14 | 1.84 | 0.81 | 0.81 |
| 38.04 | 192.25 | 117.99 | 1.18 | 138.80 | 1.82 | 0.81 | 0.81 |
| 38.13 | 193.87 | 118.97 | 1.17 | 139.30 | 1.82 | 0.81 | 0.81 |
| 38.18 | 193.57 | 118.63 | 1.17 | 139.16 | 1.82 | 0.81 | 0.81 |
| 38.28 | 191.24 | 116.58 | 1.19 | 138.51 | 1.84 | 0.81 | 0.81 |
| 38.37 | 187.40 | 113.37 | 1.21 | 137.08 | 1.86 | 0.81 | 0.81 |
| 38.47 | 183.55 | 109.99 | 1.23 | 135.63 | 1.89 | 0.81 | 0.81 |
| 38.57 | 180.39 | 107.19 | 1.25 | 134.14 | 1.92 | 0.80 | 0.80 |
| 38.62 | 176.78 | 104.23 | 1.27 | 132.48 | 1.95 | 0.80 | 0.80 |
| 38.72 | 167.48 | 97.43 | 1.31 | 127.27 | 2.00 | 0.79 | 0.79 |
| 38.78 | 160.21 | 92.19 | 1.34 | 123.72 | 2.04 | 0.79 | 0.79 |
| 38.81 | 155.32 | 88.77 | 1.37 | 121.63 | 2.06 | 0.79 | 0.79 |
| 38.86 | 155.19 | 88.54 | 1.37 | 121.68 | 2.07 | 0.79 | 0.79 |
| 38.91 | 152.02 | 86.27 | 1.40 | 120.51 | 2.08 | 0.78 | 0.78 |
| 38.95 | 145.92 | 82.06 | 1.44 | 118.55 | 2.12 | 0.78 | 0.78 |
| 39.05 | 139.55 | 77.66 | 1.51 | 116.91 | 2.15 | 0.78 | 0.78 |
| 39.09 | 132.37 | 72.88 | 1.59 | 115.64 | 2.19 | 0.78 | 0.78 |
| 39.14 | 125.06 | 68.10 | 1.69 | 114.83 | 2.23 | 0.77 | 0.77 |
| 39.24 | 118.19 | 63.61 | 1.80 | 114.32 | 2.26 | 0.77 | 0.77 |
| 39.29 | 112.16 | 59.80 | 1.91 | 114.03 | 2.30 | 0.77 | 0.77 |
| 39.39 | 108.48 | 57.39 | 1.99 | 114.16 | 2.32 | 0.77 | 0.77 |
| 39.43 | 109.15 | 57.74 | 1.98 | 114.28 | 2.31 | 0.77 | 0.77 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 39.53 | 115.02 | 61.25 | 1.86 | 113.89 | 2.28 | 0.77 | 0.77 |
| 39.57 | 124.17 | 67.01 | 1.69 | 113.55 | 2.23 | 0.77 | 0.77 |
| 39.68 | 130.64 | 71.04 | 1.60 | 113.69 | 2.19 | 0.77 | 0.77 |
| 39.73 | 131.95 | 71.83 | 1.58 | 113.53 | 2.19 | 0.77 | 0.77 |
| 39.81 | 129.33 | 70.10 | 1.60 | 112.48 | 2.20 | 0.77 | 0.77 |
| 39.89 | 126.37 | 68.39 | 1.60 | 109.51 | 2.19 | 0.77 | 0.77 |
| 39.96 | 125.26 | 68.01 | 1.56 | 105.89 | 2.18 | 0.76 | 0.76 |
| 40.06 | 124.52 | 67.75 | 1.52 | 103.14 | 2.16 | 0.75 | 0.75 |
| 40.15 | 122.70 | 66.50 | 1.54 | 102.38 | 2.17 | 0.75 | 0.75 |
| 40.20 | 114.41 | 61.03 | 1.67 | 102.07 | 2.22 | 0.75 | 0.75 |
| 40.24 | 108.56 | 57.23 | 1.79 | 102.62 | 2.26 | 0.75 | 0.75 |
| 40.26 | 104.17 | 54.45 | 1.90 | 103.22 | 2.29 | 0.75 | 0.75 |
| 40.27 | 107.91 | 56.72 | 1.82 | 103.36 | 2.27 | 0.75 | 0.75 |
| 40.37 | 109.77 | 57.73 | 1.80 | 103.81 | 2.26 | 0.76 | 0.76 |
| 40.42 | 111.64 | 58.75 | 1.78 | 104.71 | 2.26 | 0.76 | 0.76 |
| 40.52 | 112.38 | 59.02 | 1.79 | 105.44 | 2.26 | 0.76 | 0.76 |
| 40.56 | 115.27 | 60.66 | 1.76 | 106.63 | 2.25 | 0.76 | 0.76 |
| 40.66 | 122.24 | 64.78 | 1.67 | 108.06 | 2.22 | 0.76 | 0.76 |
| 40.70 | 131.54 | 70.42 | 1.57 | 110.67 | 2.18 | 0.77 | 0.77 |
| 40.75 | 142.59 | 77.15 | 1.49 | 114.79 | 2.14 | 0.77 | 0.77 |
| 40.85 | 153.40 | 83.66 | 1.43 | 119.75 | 2.11 | 0.78 | 0.78 |
| 40.91 | 164.05 | 90.16 | 1.39 | 125.10 | 2.08 | 0.79 | 0.79 |
| 40.96 | 174.69 | 96.83 | 1.35 | 130.56 | 2.04 | 0.80 | 0.80 |
| 41.04 | 184.27 | 102.87 | 1.32 | 135.59 | 2.01 | 0.81 | 0.81 |
| 41.09 | 193.94 | 109.10 | 1.29 | 141.03 | 1.98 | 0.81 | 0.81 |
| 41.18 | 201.90 | 114.17 | 1.28 | 145.57 | 1.96 | 0.82 | 0.82 |
| 41.23 | 207.97 | 118.08 | 1.26 | 149.12 | 1.94 | 0.83 | 0.83 |
| 41.29 | 211.58 | 120.37 | 1.26 | 151.17 | 1.93 | 0.83 | 0.83 |
| 41.38 | 212.76 | 120.98 | 1.25 | 151.67 | 1.93 | 0.83 | 0.83 |
| 41.42 | 212.09 | 120.40 | 1.26 | 151.21 | 1.93 | 0.83 | 0.83 |
| 41.52 | 210.03 | 118.76 | 1.26 | 149.86 | 1.94 | 0.83 | 0.83 |
| 41.57 | 207.27 | 116.72 | 1.27 | 148.26 | 1.95 | 0.82 | 0.82 |
| 41.62 | 204.91 | 114.93 | 1.28 | 146.93 | 1.96 | 0.82 | 0.82 |
| 41.71 | 203.13 | 113.45 | 1.29 | 145.89 | 1.97 | 0.82 | 0.82 |
| 41.76 | 202.15 | 112.60 | 1.29 | 145.43 | 1.98 | 0.82 | 0.82 |
| 41.84 | 201.65 | 111.98 | 1.30 | 145.17 | 1.99 | 0.82 | 0.82 |
| 41.91 | 201.54 | 111.64 | 1.30 | 145.22 | 1.99 | 0.82 | 0.82 |
| 41.95 | 201.75 | 111.52 | 1.31 | 145.53 | 2.00 | 0.82 | 0.82 |
| 42.01 | 202.52 | 111.63 | 1.31 | 146.36 | 2.00 | 0.82 | 0.82 |
| 42.10 | 203.57 | 111.82 | 1.32 | 147.40 | 2.01 | 0.82 | 0.82 |
| 42.15 | 204.98 | 112.23 | 1.33 | 148.90 | 2.02 | 0.83 | 0.83 |
| 42.24 | 206.03 | 112.44 | 1.33 | 149.94 | 2.03 | 0.83 | 0.83 |
| 42.28 | 206.46 | 112.53 | 1.34 | 150.31 | 2.03 | 0.83 | 0.83 |
| 42.39 | 206.26 | 112.27 | 1.33 | 149.81 | 2.03 | 0.83 | 0.83 |
| 42.43 | 206.08 | 112.28 | 1.33 | 149.14 | 2.02 | 0.83 | 0.83 |
| 42.50 | 206.11 | 112.45 | 1.32 | 148.36 | 2.01 | 0.82 | 0.82 |
| 42.58 | 206.28 | 112.80 | 1.31 | 147.54 | 2.00 | 0.82 | 0.82 |
| 42.65 | 198.95 | 108.28 | 1.32 | 142.73 | 2.01 | 0.82 | 0.82 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 42.70 | 195.88 | 106.39 | 1.32 | 140.58 | 2.02 | 0.81 | 0.81 |
| 42.73 | 193.72 | 105.08 | 1.32 | 139.14 | 2.02 | 0.81 | 0.81 |
| 42.77 | 200.19 | 109.31 | 1.30 | 142.31 | 1.99 | 0.82 | 0.82 |
| 42.82 | 203.83 | 111.68 | 1.29 | 144.06 | 1.98 | 0.82 | 0.82 |
| 42.87 | 209.12 | 115.10 | 1.28 | 146.92 | 1.96 | 0.82 | 0.82 |
| 42.91 | 215.46 | 119.14 | 1.26 | 150.57 | 1.94 | 0.83 | 0.83 |
| 42.97 | 221.76 | 123.09 | 1.25 | 154.27 | 1.92 | 0.83 | 0.83 |
| 43.02 | 226.82 | 126.14 | 1.25 | 157.35 | 1.92 | 0.84 | 0.84 |
| 43.06 | 230.49 | 128.19 | 1.25 | 159.72 | 1.91 | 0.84 | 0.84 |
| 43.11 | 234.33 | 130.34 | 1.24 | 162.21 | 1.91 | 0.84 | 0.84 |
| 43.17 | 237.93 | 132.40 | 1.24 | 164.40 | 1.91 | 0.85 | 0.85 |
| 43.21 | 242.21 | 135.09 | 1.23 | 166.83 | 1.90 | 0.85 | 0.85 |
| 43.29 | 246.19 | 137.59 | 1.23 | 168.85 | 1.89 | 0.85 | 0.85 |
| 43.34 | 250.53 | 140.43 | 1.22 | 171.05 | 1.87 | 0.85 | 0.85 |
| 43.39 | 254.11 | 142.76 | 1.21 | 172.71 | 1.86 | 0.86 | 0.86 |
| 43.45 | 256.87 | 144.64 | 1.20 | 173.74 | 1.85 | 0.86 | 0.86 |
| 43.51 | 258.25 | 145.84 | 1.19 | 173.50 | 1.84 | 0.86 | 0.86 |
| 43.59 | 258.59 | 146.35 | 1.18 | 172.47 | 1.82 | 0.86 | 0.86 |
| 43.64 | 259.19 | 147.38 | 1.16 | 170.73 | 1.80 | 0.85 | 0.85 |
| 43.70 | 259.29 | 148.12 | 1.13 | 168.10 | 1.78 | 0.85 | 0.85 |
| 43.78 | 258.35 | 147.98 | 1.12 | 165.08 | 1.77 | 0.85 | 0.85 |
| 43.88 | 255.18 | 145.77 | 1.12 | 163.55 | 1.77 | 0.84 | 0.84 |
| 43.94 | 244.77 | 138.10 | 1.17 | 161.52 | 1.82 | 0.84 | 0.84 |
| 44.04 | 234.93 | 130.84 | 1.21 | 157.74 | 1.86 | 0.84 | 0.84 |
| 44.07 | 225.87 | 124.41 | 1.23 | 153.31 | 1.89 | 0.83 | 0.83 |
| 44.12 | 223.58 | 122.68 | 1.24 | 152.08 | 1.90 | 0.83 | 0.83 |
| 44.16 | 221.15 | 120.94 | 1.25 | 150.70 | 1.91 | 0.83 | 0.83 |
| 44.21 | 218.05 | 118.76 | 1.25 | 148.86 | 1.93 | 0.83 | 0.83 |
| 44.26 | 214.65 | 116.39 | 1.26 | 146.86 | 1.94 | 0.82 | 0.82 |
| 44.31 | 210.81 | 113.73 | 1.27 | 144.63 | 1.95 | 0.82 | 0.82 |
| 44.35 | 206.97 | 111.11 | 1.28 | 142.44 | 1.97 | 0.82 | 0.82 |
| 44.40 | 203.26 | 108.60 | 1.29 | 140.32 | 1.98 | 0.81 | 0.81 |
| 44.45 | 200.16 | 106.49 | 1.30 | 138.56 | 1.99 | 0.81 | 0.81 |
| 44.50 | 197.83 | 104.91 | 1.31 | 137.24 | 2.00 | 0.81 | 0.81 |
| 44.54 | 195.81 | 103.53 | 1.32 | 136.15 | 2.01 | 0.81 | 0.81 |
| 44.60 | 193.46 | 101.86 | 1.32 | 134.97 | 2.02 | 0.81 | 0.81 |
| 44.64 | 190.96 | 100.11 | 1.34 | 133.85 | 2.03 | 0.80 | 0.80 |
| 44.69 | 188.57 | 98.42 | 1.35 | 132.85 | 2.05 | 0.80 | 0.80 |
| 44.74 | 187.78 | 97.76 | 1.36 | 132.59 | 2.05 | 0.80 | 0.80 |
| 44.79 | 187.17 | 97.27 | 1.36 | 132.34 | 2.06 | 0.80 | 0.80 |
| 44.83 | 187.71 | 97.52 | 1.36 | 132.53 | 2.05 | 0.80 | 0.80 |
| 44.88 | 188.84 | 98.15 | 1.35 | 132.96 | 2.05 | 0.80 | 0.80 |
| 44.93 | 191.20 | 99.52 | 1.35 | 134.02 | 2.04 | 0.80 | 0.80 |
| 44.98 | 193.69 | 100.99 | 1.34 | 135.20 | 2.03 | 0.81 | 0.81 |
| 45.03 | 195.31 | 101.90 | 1.33 | 135.95 | 2.03 | 0.81 | 0.81 |
| 45.08 | 196.49 | 102.54 | 1.33 | 136.45 | 2.03 | 0.81 | 0.81 |
| 45.16 | 197.53 | 103.08 | 1.33 | 136.81 | 2.02 | 0.81 | 0.81 |
| 45.19 | 198.24 | 103.58 | 1.32 | 136.91 | 2.02 | 0.81 | 0.81 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 45.27 | 198.44 | 103.76 | 1.32 | 136.53 | 2.01 | 0.81 | 0.81 |
| 45.32 | 197.56 | 103.38 | 1.31 | 135.53 | 2.00 | 0.81 | 0.81 |
| 45.37 | 195.58 | 102.45 | 1.31 | 133.73 | 2.00 | 0.80 | 0.80 |
| 45.45 | 192.44 | 100.80 | 1.30 | 131.17 | 1.99 | 0.80 | 0.80 |
| 45.51 | 187.22 | 97.91 | 1.30 | 127.52 | 1.99 | 0.79 | 0.79 |
| 45.56 | 180.52 | 93.92 | 1.31 | 123.37 | 2.01 | 0.79 | 0.79 |
| 45.61 | 169.84 | 87.34 | 1.35 | 117.60 | 2.04 | 0.78 | 0.78 |
| 45.69 | 156.32 | 78.89 | 1.42 | 111.79 | 2.10 | 0.77 | 0.77 |
| 45.75 | 137.42 | 67.17 | 1.61 | 108.19 | 2.20 | 0.76 | 0.76 |
| 45.81 | 115.31 | 54.45 | 1.93 | 105.04 | 2.30 | 0.76 | 0.76 |
| 45.89 | 93.28 | 42.25 | 2.49 | 105.10 | 2.42 | 0.76 | 0.76 |
| 45.94 | 73.36 | 31.83 | 3.26 | 103.73 | 2.54 | 0.75 | 0.75 |
| 46.04 | 59.21 | 24.44 | 4.42 | 108.05 | 2.67 | 0.76 | 0.76 |
| 46.08 | 46.61 | 18.15 | 6.18 | 112.07 | 2.83 | 0.77 | 0.77 |
| 46.15 | 39.94 | 13.37 | 8.22 | 109.85 | 2.97 | 0.77 | 0.77 |
| 46.17 | 36.10 | 11.98 | 9.26 | 110.89 | 3.03 | 0.63 | 0.86 |
| 46.18 | 36.17 | 12.00 | 9.18 | 110.17 | 3.02 | 0.63 | 0.86 |
| 46.23 | 36.48 | 12.10 | 9.03 | 109.18 | 3.01 | 0.62 | 0.86 |
| 46.27 | 37.18 | 12.34 | 8.72 | 107.58 | 3.00 | 0.76 | 0.76 |
| 46.32 | 38.64 | 12.85 | 8.20 | 105.33 | 2.96 | 0.76 | 0.76 |
| 46.41 | 40.63 | 15.29 | 7.01 | 107.19 | 2.89 | 0.76 | 0.76 |
| 46.47 | 43.16 | 16.49 | 6.44 | 106.19 | 2.85 | 0.76 | 0.76 |
| 46.52 | 45.45 | 17.54 | 6.09 | 106.89 | 2.82 | 0.76 | 0.76 |
| 46.56 | 47.57 | 18.46 | 5.95 | 109.81 | 2.81 | 0.77 | 0.77 |
| 46.65 | 49.42 | 19.21 | 5.91 | 113.60 | 2.80 | 0.77 | 0.77 |
| 46.71 | 51.52 | 20.07 | 5.86 | 117.68 | 2.80 | 0.78 | 0.78 |
| 46.76 | 54.41 | 21.37 | 5.62 | 120.04 | 2.78 | 0.78 | 0.78 |
| 46.85 | 58.19 | 23.13 | 5.21 | 120.43 | 2.75 | 0.78 | 0.78 |
| 46.90 | 63.28 | 25.63 | 4.63 | 118.71 | 2.69 | 0.78 | 0.78 |
| 46.99 | 67.89 | 27.93 | 4.16 | 116.19 | 2.65 | 0.78 | 0.78 |
| 47.04 | 70.35 | 29.16 | 3.93 | 114.63 | 2.62 | 0.77 | 0.77 |
| 47.10 | 69.50 | 28.71 | 4.00 | 114.71 | 2.63 | 0.77 | 0.77 |
| 47.16 | 65.45 | 26.63 | 4.36 | 116.10 | 2.67 | 0.78 | 0.78 |
| 47.23 | 59.62 | 23.71 | 4.94 | 117.23 | 2.72 | 0.78 | 0.78 |
| 47.30 | 51.46 | 19.76 | 5.97 | 117.96 | 2.81 | 0.78 | 0.78 |
| 47.38 | 42.76 | 13.97 | 8.12 | 113.48 | 2.96 | 0.77 | 0.77 |
| 47.43 | 34.23 | 10.97 | 10.19 | 111.84 | 3.08 | 0.65 | 0.78 |
| 47.52 | 28.17 | 8.83 | 11.99 | 105.92 | 3.17 | 0.55 | 0.63 |
| 47.59 | 23.92 | 7.34 | 12.70 | 93.23 | 3.20 | 0.41 | 0.52 |
| 47.66 | 21.40 | 6.45 | 12.70 | 81.89 | 3.20 | 0.22 | 0.46 |
| 47.77 | 19.71 | 5.85 | 12.77 | 74.67 | 3.20 | 0.23 | 0.42 |
| 47.82 | 18.77 | 5.51 | 13.75 | 75.76 | 3.24 | 0.23 | 0.39 |
| 47.91 | 18.38 | 5.37 | 14.28 | 76.63 | 3.26 | 0.24 | 0.38 |
| 47.93 | 17.68 | 5.12 | 15.17 | 77.65 | 3.30 | 0.24 | 0.37 |
| 47.97 | 17.78 | 5.15 | 15.21 | 78.37 | 3.30 | 0.25 | 0.37 |
| 48.02 | 17.86 | 5.17 | 15.38 | 79.56 | 3.31 | 0.26 | 0.37 |
| 48.07 | 18.51 | 5.39 | 15.07 | 81.21 | 3.30 | 0.27 | 0.38 |
| 48.12 | 18.61 | 5.42 | 15.51 | 84.04 | 3.31 | 0.29 | 0.39 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 48.19 | 18.71 | 5.44 | 15.90 | 86.54 | 3.33 | 0.33 | 0.39 |
| 48.23 | 18.91 | 5.51 | 16.11 | 88.74 | 3.33 | 0.34 | 0.39 |
| 48.31 | 19.15 | 5.58 | 16.11 | 89.88 | 3.33 | 0.35 | 0.40 |
| 48.35 | 19.35 | 5.64 | 16.11 | 90.92 | 3.33 | 0.36 | 0.40 |
| 48.40 | 19.25 | 5.60 | 16.37 | 91.72 | 3.34 | 0.37 | 0.40 |
| 48.45 | 18.81 | 5.45 | 16.96 | 92.39 | 3.36 | 0.37 | 0.39 |
| 48.50 | 18.07 | 5.19 | 17.92 | 92.93 | 3.40 | 0.38 | 0.37 |
| 48.55 | 17.80 | 5.09 | 18.35 | 93.37 | 3.41 | 0.38 | 0.36 |
| 48.59 | 17.64 | 5.03 | 18.75 | 94.24 | 3.42 | 0.39 | 0.36 |
| 48.67 | 17.87 | 5.10 | 18.56 | 94.62 | 3.42 | 0.40 | 0.36 |
| 48.73 | 17.84 | 5.08 | 18.58 | 94.36 | 3.42 | 0.39 | 0.36 |
| 48.78 | 17.97 | 5.12 | 18.13 | 92.80 | 3.40 | 0.38 | 0.37 |
| 48.83 | 17.97 | 5.11 | 17.74 | 90.68 | 3.39 | 0.36 | 0.37 |
| 48.91 | 17.94 | 5.09 | 17.35 | 88.35 | 3.38 | 0.33 | 0.36 |
| 48.98 | 17.84 | 5.05 | 17.10 | 86.35 | 3.37 | 0.32 | 0.36 |
| 49.03 | 17.74 | 5.01 | 17.00 | 85.19 | 3.37 | 0.31 | 0.36 |
| 49.12 | 17.68 | 4.98 | 16.65 | 82.90 | 3.35 | 0.30 | 0.36 |
| 49.17 | 17.75 | 5.00 | 15.91 | 79.48 | 3.33 | 0.26 | 0.36 |
| 49.27 | 18.02 | 5.08 | 15.07 | 76.51 | 3.30 | 0.22 | 0.36 |
| 49.31 | 18.56 | 5.25 | 14.57 | 76.55 | 3.28 | 0.24 | 0.38 |
| 49.38 | 19.20 | 5.46 | 14.44 | 78.88 | 3.27 | 0.26 | 0.39 |
| 49.45 | 19.70 | 5.62 | 14.44 | 81.15 | 3.27 | 0.28 | 0.40 |
| 49.51 | 19.00 | 5.38 | 15.44 | 83.00 | 3.31 | 0.29 | 0.38 |
| 49.54 | 19.44 | 5.52 | 15.24 | 84.13 | 3.30 | 0.30 | 0.39 |
| 49.59 | 20.18 | 5.76 | 14.65 | 84.45 | 3.28 | 0.31 | 0.41 |
| 49.64 | 21.53 | 6.21 | 13.47 | 83.63 | 3.23 | 0.31 | 0.44 |
| 49.73 | 21.20 | 6.09 | 13.64 | 83.01 | 3.24 | 0.29 | 0.43 |
| 49.83 | 20.02 | 5.68 | 14.52 | 82.47 | 3.27 | 0.29 | 0.41 |
| 49.92 | 18.88 | 5.29 | 15.55 | 82.19 | 3.31 | 0.29 | 0.38 |
| 49.98 | 17.86 | 4.94 | 16.51 | 81.62 | 3.35 | 0.28 | 0.35 |
| 50.07 | 17.33 | 4.75 | 17.04 | 81.01 | 3.37 | 0.27 | 0.34 |
| 50.16 | 16.99 | 4.63 | 17.38 | 80.51 | 3.38 | 0.27 | 0.33 |
| 50.24 | 16.69 | 4.52 | 17.70 | 80.06 | 3.39 | 0.27 | 0.32 |
| 50.32 | 16.46 | 4.44 | 17.99 | 79.87 | 3.40 | 0.26 | 0.32 |
| 50.41 | 16.32 | 4.39 | 18.25 | 80.02 | 3.41 | 0.26 | 0.31 |
| 50.50 | 16.36 | 4.39 | 18.25 | 80.09 | 3.41 | 0.27 | 0.31 |
| 50.56 | 16.26 | 4.35 | 18.25 | 79.36 | 3.41 | 0.27 | 0.31 |
| 50.66 | 16.09 | 4.28 | 18.27 | 78.27 | 3.41 | 0.25 | 0.31 |
| 50.74 | 15.92 | 4.22 | 18.37 | 77.53 | 3.41 | 0.24 | 0.30 |
| 50.84 | 15.85 | 4.19 | 19.00 | 79.62 | 3.43 | 0.25 | 0.30 |
| 50.93 | 15.95 | 4.21 | 19.91 | 83.88 | 3.46 | 0.30 | 0.30 |
| 50.98 | 16.77 | 4.47 | 20.59 | 92.08 | 3.48 | 0.35 | 0.32 |
| 51.08 | 19.60 | 5.39 | 19.08 | 102.75 | 3.43 | 0.47 | 0.38 |
| 51.17 | 24.45 | 6.95 | 16.30 | 113.31 | 3.34 | 0.63 | 0.50 |
| 51.24 | 30.11 | 8.78 | 13.98 | 122.80 | 3.25 | 0.75 | 0.63 |
| 51.34 | 33.65 | 9.91 | 13.03 | 129.12 | 3.21 | 0.89 | 0.71 |
| 51.41 | 34.16 | 10.06 | 12.19 | 122.59 | 3.18 | 0.93 | 0.72 |
| 51.51 | 32.81 | 9.60 | 12.05 | 115.66 | 3.17 | 0.50 | 0.69 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 51.58 | 31.20 | 9.06 | 11.80 | 106.93 | 3.16 | 0.61 | 0.65 |
| 51.68 | 29.95 | 8.64 | 12.73 | 109.98 | 3.20 | 0.60 | 0.62 |
| 51.79 | 27.39 | 7.80 | 14.12 | 110.16 | 3.26 | 0.59 | 0.56 |
| 51.82 | 25.87 | 7.31 | 15.07 | 110.15 | 3.30 | 0.59 | 0.52 |
| 51.85 | 24.39 | 6.83 | 16.27 | 111.07 | 3.34 | 0.59 | 0.49 |
| 51.91 | 25.00 | 7.01 | 16.14 | 113.23 | 3.34 | 0.60 | 0.50 |
| 52.00 | 24.87 | 6.96 | 16.71 | 116.25 | 3.36 | 0.67 | 0.50 |
| 52.05 | 27.06 | 7.65 | 15.54 | 118.92 | 3.31 | 0.70 | 0.55 |
| 52.10 | 31.78 | 9.15 | 13.00 | 118.95 | 3.21 | 0.72 | 0.65 |
| 52.19 | 38.49 | 11.27 | 10.28 | 115.81 | 3.08 | 0.73 | 0.80 |
| 52.28 | 44.04 | 13.02 | 8.58 | 111.69 | 2.99 | 0.77 | 0.77 |
| 52.34 | 46.37 | 13.74 | 7.96 | 109.32 | 2.95 | 0.76 | 0.76 |
| 52.42 | 46.09 | 13.63 | 8.05 | 109.66 | 2.96 | 0.77 | 0.77 |
| 52.48 | 44.34 | 13.05 | 8.50 | 111.03 | 2.98 | 0.77 | 0.77 |
| 52.57 | 42.32 | 12.39 | 8.98 | 111.27 | 3.01 | 0.69 | 0.88 |
| 52.62 | 40.26 | 11.73 | 9.37 | 109.88 | 3.03 | 0.66 | 0.84 |
| 52.69 | 38.51 | 11.16 | 9.58 | 106.89 | 3.05 | 0.61 | 0.80 |
| 52.77 | 36.89 | 10.63 | 9.83 | 104.50 | 3.06 | 0.56 | 0.76 |
| 52.87 | 35.55 | 10.19 | 10.19 | 103.83 | 3.08 | 0.55 | 0.73 |
| 52.91 | 34.07 | 9.71 | 10.56 | 102.56 | 3.10 | 0.57 | 0.69 |
| 53.01 | 32.55 | 9.21 | 11.08 | 102.13 | 3.12 | 0.49 | 0.66 |
| 53.10 | 32.18 | 9.08 | 11.35 | 103.11 | 3.14 | 0.52 | 0.65 |
| 53.16 | 34.04 | 9.65 | 11.74 | 113.26 | 3.15 | 0.59 | 0.69 |
| 53.25 | 38.69 | 11.08 | 11.13 | 123.32 | 3.13 | 0.87 | 0.79 |
| 53.29 | 44.28 | 12.82 | 10.63 | 136.25 | 3.10 | 0.97 | 0.92 |
| 53.38 | 48.90 | 14.23 | 10.13 | 144.18 | 3.07 | 1.22 | 1.02 |
| 53.42 | 59.32 | 17.47 | 8.56 | 149.47 | 2.99 | 0.83 | 0.83 |
| 53.47 | 74.66 | 22.21 | 6.75 | 150.02 | 2.87 | 0.83 | 0.83 |
| 53.52 | 92.88 | 27.85 | 5.32 | 148.22 | 2.76 | 0.82 | 0.82 |
| 53.58 | 102.94 | 30.94 | 4.93 | 152.55 | 2.72 | 0.83 | 0.83 |
| 53.66 | 103.80 | 31.15 | 5.14 | 160.18 | 2.74 | 0.84 | 0.84 |
| 53.75 | 98.64 | 29.50 | 5.74 | 169.41 | 2.79 | 0.85 | 0.85 |
| 53.81 | 88.93 | 26.46 | 6.64 | 175.67 | 2.86 | 0.86 | 0.86 |
| 53.87 | 78.89 | 23.33 | 7.63 | 177.89 | 2.93 | 0.86 | 0.86 |
| 53.95 | 67.24 | 19.70 | 9.07 | 178.71 | 3.02 | 1.90 | 1.41 |
| 54.01 | 57.35 | 16.64 | 10.67 | 177.57 | 3.10 | 1.79 | 1.19 |
| 54.06 | 47.51 | 13.60 | 12.71 | 172.90 | 3.20 | 1.68 | 0.97 |
| 54.15 | 41.78 | 11.83 | 14.16 | 167.57 | 3.26 | 1.42 | 0.85 |
| 54.20 | 40.60 | 11.46 | 14.42 | 165.24 | 3.27 | 1.40 | 0.82 |
| 54.29 | 47.57 | 13.59 | 12.09 | 164.23 | 3.17 | 1.54 | 0.97 |
| 54.34 | 69.40 | 20.27 | 7.00 | 141.87 | 2.89 | 0.82 | 0.82 |
| 54.43 | 100.37 | 29.73 | 3.65 | 108.63 | 2.59 | 0.76 | 0.76 |
| 54.45 | 137.16 | 41.00 | 2.00 | 82.07 | 2.32 | 0.69 | 0.71 |
| 54.48 | 166.07 | 49.83 | 1.62 | 80.59 | 2.20 | 0.61 | 0.71 |
| 54.52 | 185.51 | 55.76 | 1.48 | 82.69 | 2.14 | 0.71 | 0.71 |
| 54.53 | 198.85 | 59.83 | 1.45 | 86.57 | 2.12 | 0.72 | 0.72 |
| 54.58 | 207.94 | 62.58 | 1.44 | 89.91 | 2.11 | 0.73 | 0.73 |
| 54.62 | 219.64 | 66.13 | 1.42 | 93.59 | 2.10 | 0.74 | 0.74 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 54.65 | 233.46 | 70.33 | 1.38 | 96.81 | 2.07 | 0.74 | 0.74 |
| 54.70 | 244.67 | 73.72 | 1.36 | 99.98 | 2.05 | 0.75 | 0.75 |
| 54.76 | 251.12 | 75.64 | 1.35 | 102.23 | 2.05 | 0.75 | 0.75 |
| 54.77 | 249.88 | 75.25 | 1.37 | 102.77 | 2.06 | 0.75 | 0.75 |
| 54.82 | 251.50 | 75.71 | 1.36 | 103.16 | 2.06 | 0.75 | 0.75 |
| 54.87 | 253.07 | 76.14 | 1.36 | 103.55 | 2.05 | 0.75 | 0.75 |
| 54.88 | 255.63 | 76.92 | 1.35 | 104.08 | 2.05 | 0.76 | 0.76 |
| 54.91 | 257.28 | 77.39 | 1.35 | 104.56 | 2.05 | 0.76 | 0.76 |
| 54.96 | 263.42 | 79.22 | 1.34 | 106.09 | 2.04 | 0.76 | 0.76 |
| 54.97 | 276.70 | 83.26 | 1.32 | 109.90 | 2.01 | 0.77 | 0.77 |
| 55.03 | 294.89 | 88.74 | 1.30 | 115.47 | 1.99 | 0.78 | 0.78 |
| 55.09 | 315.21 | 94.86 | 1.27 | 120.89 | 1.96 | 0.78 | 0.78 |
| 55.15 | 327.84 | 98.63 | 1.23 | 121.55 | 1.89 | 0.79 | 0.79 |
| 55.20 | 338.35 | 101.77 | 1.20 | 122.41 | 1.85 | 0.79 | 0.79 |
| 55.25 | 358.17 | 107.74 | 1.13 | 121.49 | 1.78 | 0.79 | 0.79 |
| 55.30 | 386.84 | 116.38 | 1.11 | 129.28 | 1.77 | 0.80 | 0.80 |
| 55.34 | 417.50 | 125.63 | 1.07 | 134.62 | 1.74 | 0.81 | 0.81 |
| 55.39 | 440.05 | 132.40 | 1.10 | 146.03 | 1.76 | 0.82 | 0.82 |
| 55.40 | 462.28 | 139.13 | 1.10 | 153.71 | 1.76 | 0.83 | 0.83 |
| 55.44 | 482.80 | 145.29 | 1.08 | 157.35 | 1.75 | 0.84 | 0.84 |
| 55.44 | 511.21 | 153.88 | 1.02 | 157.04 | 1.72 | 0.84 | 0.84 |
| 55.49 | 517.76 | 155.78 | 1.03 | 160.78 | 1.72 | 0.84 | 0.84 |
| 55.54 | 533.43 | 160.44 | 1.05 | 167.71 | 1.73 | 0.85 | 0.85 |
| 55.59 | 534.98 | 160.82 | 1.10 | 176.17 | 1.76 | 0.86 | 0.86 |
| 55.63 | 551.08 | 165.61 | 1.09 | 180.34 | 1.75 | 0.86 | 0.86 |
| 55.64 | 553.47 | 166.31 | 1.09 | 180.79 | 1.75 | 0.87 | 0.87 |
| 55.68 | 566.94 | 170.31 | 1.06 | 179.92 | 1.73 | 0.86 | 0.86 |
| 55.69 | 570.38 | 171.33 | 1.04 | 178.50 | 1.73 | 0.86 | 0.86 |
| 55.69 | 566.17 | 170.04 | 1.05 | 179.38 | 1.73 | 0.86 | 0.86 |
| 55.71 | 561.62 | 168.63 | 1.09 | 183.08 | 1.75 | 0.87 | 0.87 |
| 55.76 | 567.28 | 170.25 | 1.10 | 186.45 | 1.76 | 0.87 | 0.87 |
| 55.78 | 580.19 | 174.11 | 1.08 | 187.85 | 1.75 | 0.87 | 0.87 |
| 55.81 | 581.23 | 174.36 | 1.04 | 180.96 | 1.72 | 0.87 | 0.87 |
| 55.85 | 584.16 | 175.16 | 1.00 | 175.16 | 1.69 | 0.86 | 0.86 |
| 55.86 | 588.34 | 176.41 | 1.00 | 176.41 | 1.65 | 0.86 | 0.86 |
| 55.91 | 598.65 | 179.42 | 1.00 | 179.42 | 1.62 | 0.86 | 0.86 |
| 55.92 | 602.25 | 180.48 | 1.00 | 180.48 | 1.60 | 0.87 | 0.87 |
| 55.96 | 619.03 | 185.46 | 1.00 | 185.46 | 1.58 | 0.87 | 0.87 |
| 55.97 | 634.09 | 189.98 | 1.00 | 189.98 | 1.57 | 0.88 | 0.88 |
| 56.00 | 654.37 | 196.01 | 1.00 | 196.01 | 1.56 | 0.88 | 0.88 |
| 56.01 | 660.12 | 197.72 | 1.00 | 197.72 | 1.58 | 0.88 | 0.88 |
| 56.03 | 661.79 | 198.18 | 1.00 | 198.18 | 1.59 | 0.88 | 0.88 |
| 56.05 | 661.82 | 198.14 | 1.00 | 198.14 | 1.60 | 0.88 | 0.88 |
| 56.10 | 665.04 | 198.99 | 1.00 | 198.99 | 1.60 | 0.89 | 0.89 |
| 56.12 | 668.02 | 199.86 | 1.00 | 199.86 | 1.58 | 0.89 | 0.89 |
| 56.16 | 667.69 | 199.67 | 1.00 | 199.67 | 1.57 | 0.89 | 0.89 |
| 56.17 | 654.78 | 195.76 | 1.00 | 195.76 | 1.57 | 0.88 | 0.88 |
| 56.20 | 635.11 | 189.78 | 1.00 | 189.78 | 1.59 | 0.88 | 0.88 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 56.22 | 617.48 | 184.46 | 1.00 | 184.46 | 1.61 | 0.87 | 0.87 |
| 56.24 | 608.45 | 181.69 | 1.00 | 181.69 | 1.61 | 0.87 | 0.87 |
| 56.30 | 602.69 | 179.84 | 1.00 | 179.84 | 1.62 | 0.86 | 0.86 |
| 56.31 | 595.69 | 177.72 | 1.00 | 177.72 | 1.63 | 0.86 | 0.86 |
| 56.34 | 586.22 | 174.82 | 1.00 | 174.82 | 1.65 | 0.86 | 0.86 |
| 56.39 | 579.04 | 172.57 | 1.00 | 172.57 | 1.66 | 0.86 | 0.86 |
| 56.45 | 572.30 | 170.44 | 1.00 | 170.44 | 1.67 | 0.85 | 0.85 |
| 56.48 | 565.39 | 168.31 | 1.00 | 168.31 | 1.67 | 0.85 | 0.85 |
| 56.49 | 555.45 | 165.32 | 1.00 | 165.32 | 1.70 | 0.85 | 0.85 |
| 56.53 | 542.15 | 161.25 | 1.05 | 168.57 | 1.73 | 0.85 | 0.85 |
| 56.58 | 529.04 | 157.24 | 1.08 | 169.38 | 1.75 | 0.85 | 0.85 |
| 56.63 | 524.73 | 155.86 | 1.00 | 155.86 | 1.67 | 0.83 | 0.83 |
| 56.68 | 526.01 | 156.17 | 1.00 | 156.17 | 1.58 | 0.84 | 0.84 |
| 56.73 | 531.33 | 157.68 | 1.00 | 157.68 | 1.53 | 0.84 | 0.84 |
| 56.78 | 526.31 | 156.09 | 1.00 | 156.09 | 1.62 | 0.84 | 0.84 |
| 56.83 | 517.99 | 153.53 | 1.00 | 153.53 | 1.69 | 0.83 | 0.83 |
| 56.89 | 503.37 | 149.05 | 1.06 | 157.35 | 1.73 | 0.84 | 0.84 |
| 56.95 | 485.04 | 143.50 | 1.12 | 160.76 | 1.77 | 0.84 | 0.84 |
| 56.99 | 470.25 | 139.02 | 1.16 | 161.37 | 1.81 | 0.84 | 0.84 |
| 57.01 | 460.92 | 136.23 | 1.18 | 160.98 | 1.83 | 0.84 | 0.84 |
| 57.04 | 461.73 | 136.41 | 1.18 | 160.65 | 1.82 | 0.84 | 0.84 |
| 57.09 | 468.20 | 138.26 | 1.17 | 161.13 | 1.81 | 0.84 | 0.84 |
| 57.11 | 477.43 | 140.98 | 1.16 | 163.57 | 1.81 | 0.84 | 0.84 |
| 57.13 | 488.62 | 144.26 | 1.16 | 167.47 | 1.81 | 0.85 | 0.85 |
| 57.18 | 488.78 | 144.24 | 1.17 | 169.44 | 1.82 | 0.85 | 0.85 |
| 57.19 | 477.80 | 140.96 | 1.20 | 168.95 | 1.85 | 0.85 | 0.85 |
| 57.21 | 464.47 | 136.96 | 1.21 | 166.30 | 1.87 | 0.85 | 0.85 |
| 57.24 | 456.12 | 134.45 | 1.22 | 164.00 | 1.88 | 0.85 | 0.85 |
| 57.28 | 456.72 | 134.56 | 1.21 | 163.35 | 1.87 | 0.84 | 0.84 |
| 57.32 | 450.91 | 132.78 | 1.22 | 161.45 | 1.87 | 0.84 | 0.84 |
| 57.35 | 445.39 | 131.08 | 1.22 | 160.03 | 1.88 | 0.84 | 0.84 |
| 57.38 | 435.59 | 128.14 | 1.23 | 157.50 | 1.89 | 0.84 | 0.84 |
| 57.43 | 430.50 | 126.56 | 1.23 | 155.53 | 1.89 | 0.83 | 0.83 |
| 57.48 | 414.66 | 121.80 | 1.23 | 150.26 | 1.90 | 0.83 | 0.83 |
| 57.52 | 398.59 | 116.98 | 1.23 | 143.92 | 1.89 | 0.82 | 0.82 |
| 57.57 | 389.56 | 114.25 | 1.25 | 142.28 | 1.91 | 0.82 | 0.82 |
| 57.62 | 396.66 | 116.29 | 1.26 | 146.53 | 1.94 | 0.82 | 0.82 |
| 57.68 | 427.50 | 125.32 | 1.25 | 157.03 | 1.92 | 0.84 | 0.84 |
| 57.76 | 462.23 | 135.46 | 1.23 | 166.00 | 1.88 | 0.85 | 0.85 |
| 57.81 | 505.50 | 148.16 | 1.09 | 161.17 | 1.75 | 0.84 | 0.84 |
| 57.86 | 543.58 | 159.31 | 1.00 | 159.31 | 1.63 | 0.84 | 0.84 |
| 57.89 | 572.52 | 167.80 | 1.00 | 167.80 | 1.49 | 0.85 | 0.85 |
| 57.91 | 583.54 | 171.02 | 1.00 | 171.02 | 1.48 | 0.85 | 0.85 |
| 57.92 | 577.13 | 169.11 | 1.00 | 169.11 | 1.50 | 0.85 | 0.85 |
| 57.95 | 569.05 | 166.67 | 1.00 | 166.67 | 1.54 | 0.85 | 0.85 |
| 57.99 | 570.66 | 167.08 | 1.00 | 167.08 | 1.56 | 0.85 | 0.85 |
| 58.01 | 578.72 | 169.42 | 1.00 | 169.42 | 1.57 | 0.85 | 0.85 |
| 58.05 | 591.19 | 173.02 | 1.00 | 173.02 | 1.58 | 0.86 | 0.86 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 58.05 | 598.87 | 175.27 | 1.00 | 175.27 | 1.59 | 0.86 | 0.86 |
| 58.10 | 604.77 | 176.91 | 1.00 | 176.91 | 1.60 | 0.86 | 0.86 |
| 58.13 | 611.17 | 178.73 | 1.00 | 178.73 | 1.60 | 0.86 | 0.86 |
| 58.15 | 618.51 | 180.87 | 1.00 | 180.87 | 1.60 | 0.87 | 0.87 |
| 58.17 | 625.12 | 182.75 | 1.00 | 182.75 | 1.59 | 0.87 | 0.87 |
| 58.20 | 623.43 | 182.21 | 1.00 | 182.21 | 1.59 | 0.87 | 0.87 |
| 58.21 | 619.40 | 181.00 | 1.00 | 181.00 | 1.60 | 0.87 | 0.87 |
| 58.21 | 614.30 | 179.50 | 1.00 | 179.50 | 1.61 | 0.86 | 0.86 |
| 58.23 | 613.93 | 179.34 | 1.00 | 179.34 | 1.61 | 0.86 | 0.86 |
| 58.24 | 608.11 | 177.62 | 1.00 | 177.62 | 1.62 | 0.86 | 0.86 |
| 58.25 | 609.21 | 177.92 | 1.00 | 177.92 | 1.54 | 0.86 | 0.86 |
| 58.29 | 613.99 | 179.26 | 1.00 | 179.26 | 1.44 | 0.86 | 0.86 |
| 58.31 | 627.24 | 183.11 | 1.00 | 183.11 | 1.32 | 0.87 | 0.87 |
| 58.33 | 639.00 | 186.52 | 1.00 | 186.52 | 1.34 | 0.87 | 0.87 |
| 58.38 | 651.36 | 190.06 | 1.00 | 190.06 | 1.37 | 0.88 | 0.88 |
| 58.39 | 661.87 | 193.13 | 1.00 | 193.13 | 1.39 | 0.88 | 0.88 |
| 58.43 | 670.53 | 195.59 | 1.00 | 195.59 | 1.40 | 0.88 | 0.88 |
| 58.43 | 682.73 | 199.15 | 1.00 | 199.15 | 1.39 | 0.89 | 0.89 |
| 58.48 | 688.02 | 200.60 | 1.00 | 200.60 | 1.40 | 0.89 | 0.89 |
| 58.53 | 694.39 | 202.36 | 1.00 | 202.36 | 1.41 | 0.89 | 0.89 |
| 58.56 | 696.37 | 202.90 | 1.00 | 202.90 | 1.46 | 0.89 | 0.89 |
| 58.58 | 704.43 | 205.20 | 1.00 | 205.20 | 1.47 | 0.89 | 0.89 |
| 58.59 | 710.90 | 207.06 | 1.00 | 207.06 | 1.49 | 0.89 | 0.89 |
| 58.63 | 707.18 | 205.90 | 1.00 | 205.90 | 1.49 | 0.89 | 0.89 |
| 58.63 | 709.20 | 206.49 | 1.00 | 206.49 | 1.50 | 0.89 | 0.89 |
| 58.63 | 695.36 | 202.42 | 1.00 | 202.42 | 1.51 | 0.89 | 0.89 |
| 58.68 | 700.19 | 203.74 | 1.00 | 203.74 | 1.49 | 0.89 | 0.89 |
| 58.69 | 701.88 | 204.22 | 1.00 | 204.22 | 1.45 | 0.89 | 0.89 |
| 58.72 | 717.85 | 208.81 | 1.00 | 208.81 | 1.40 | 0.90 | 0.90 |
| 58.73 | 722.94 | 210.28 | 1.00 | 210.28 | 1.38 | 0.90 | 0.90 |
| 58.74 | 728.64 | 211.92 | 1.00 | 211.92 | 1.41 | 0.90 | 0.90 |
| 58.77 | 726.96 | 211.36 | 1.00 | 211.36 | 1.44 | 0.90 | 0.90 |
| 58.81 | 722.67 | 210.02 | 1.00 | 210.02 | 1.47 | 0.90 | 0.90 |
| 58.82 | 713.94 | 207.44 | 1.00 | 207.44 | 1.49 | 0.89 | 0.89 |
| 58.83 | 715.80 | 207.97 | 1.00 | 207.97 | 1.51 | 0.90 | 0.90 |
| 58.87 | 722.33 | 209.78 | 1.00 | 209.78 | 1.52 | 0.90 | 0.90 |
| 58.91 | 731.67 | 212.41 | 1.00 | 212.41 | 1.53 | 0.90 | 0.90 |
| 58.92 | 737.87 | 214.21 | 1.00 | 214.21 | 1.54 | 0.90 | 0.90 |
| 58.93 | 740.53 | 214.95 | 1.00 | 214.95 | 1.53 | 0.90 | 0.90 |
| 58.96 | 739.05 | 214.44 | 1.00 | 214.44 | 1.53 | 0.90 | 0.90 |
| 59.01 | 716.31 | 207.70 | 1.00 | 207.70 | 1.56 | 0.89 | 0.89 |
| 59.06 | 687.29 | 199.13 | 1.00 | 199.13 | 1.59 | 0.89 | 0.89 |
| 59.08 | 655.28 | 189.77 | 1.00 | 189.77 | 1.63 | 0.88 | 0.88 |
| 59.11 | 638.94 | 184.95 | 1.00 | 184.95 | 1.65 | 0.87 | 0.87 |
| 59.15 | 627.21 | 181.46 | 1.00 | 181.46 | 1.68 | 0.87 | 0.87 |
| 59.21 | 618.28 | 178.75 | 1.00 | 178.75 | 1.70 | 0.86 | 0.86 |
| 59.26 | 606.09 | 175.11 | 1.02 | 178.89 | 1.72 | 0.86 | 0.86 |
| 59.30 | 592.31 | 171.02 | 1.01 | 173.20 | 1.71 | 0.86 | 0.86 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 59.35 | 579.87 | 167.32 | 1.01 | 169.07 | 1.71 | 0.85 | 0.85 |
| 59.40 | 562.76 | 162.26 | 1.04 | 168.73 | 1.73 | 0.85 | 0.85 |
| 59.42 | 550.96 | 158.81 | 1.06 | 168.34 | 1.74 | 0.85 | 0.85 |
| 59.47 | 539.34 | 155.35 | 1.08 | 167.78 | 1.75 | 0.85 | 0.85 |
| 59.51 | 539.41 | 155.29 | 1.09 | 168.63 | 1.75 | 0.85 | 0.85 |
| 59.56 | 537.97 | 154.79 | 1.09 | 168.59 | 1.75 | 0.85 | 0.85 |
| 59.61 | 537.36 | 154.53 | 1.06 | 164.50 | 1.74 | 0.85 | 0.85 |
| 59.67 | 541.98 | 155.77 | 1.00 | 155.77 | 1.70 | 0.83 | 0.83 |
| 59.71 | 553.73 | 159.11 | 1.00 | 159.11 | 1.65 | 0.84 | 0.84 |
| 59.80 | 555.82 | 159.56 | 1.00 | 159.56 | 1.61 | 0.84 | 0.84 |
| 59.85 | 552.45 | 158.50 | 1.00 | 158.50 | 1.59 | 0.84 | 0.84 |
| 59.90 | 542.21 | 155.47 | 1.00 | 155.47 | 1.59 | 0.83 | 0.83 |
| 60.00 | 542.99 | 155.53 | 1.00 | 155.53 | 1.59 | 0.83 | 0.83 |
| 60.04 | 541.71 | 155.09 | 1.00 | 155.09 | 1.60 | 0.83 | 0.83 |
| 60.10 | 526.52 | 150.62 | 1.00 | 150.62 | 1.63 | 0.83 | 0.83 |
| 60.15 | 508.32 | 145.30 | 1.00 | 145.30 | 1.67 | 0.82 | 0.82 |
| 60.19 | 487.40 | 139.22 | 1.00 | 139.22 | 1.70 | 0.81 | 0.81 |
| 60.23 | 483.49 | 138.03 | 1.00 | 138.03 | 1.69 | 0.81 | 0.81 |
| 60.28 | 482.61 | 137.71 | 1.00 | 137.71 | 1.68 | 0.81 | 0.81 |
| 60.33 | 488.98 | 139.47 | 1.00 | 139.47 | 1.67 | 0.81 | 0.81 |
| 60.38 | 491.97 | 140.26 | 1.00 | 140.26 | 1.67 | 0.81 | 0.81 |
| 60.42 | 493.85 | 140.74 | 1.00 | 140.74 | 1.69 | 0.81 | 0.81 |
| 60.44 | 487.18 | 138.79 | 1.01 | 140.24 | 1.71 | 0.81 | 0.81 |
| 60.47 | 475.94 | 135.53 | 1.08 | 145.72 | 1.74 | 0.82 | 0.82 |
| 60.52 | 465.53 | 132.47 | 1.12 | 148.94 | 1.78 | 0.83 | 0.83 |
| 60.56 | 462.70 | 131.60 | 1.15 | 150.90 | 1.79 | 0.83 | 0.83 |
| 60.57 | 465.03 | 132.25 | 1.15 | 151.48 | 1.79 | 0.83 | 0.83 |
| 60.61 | 470.62 | 133.80 | 1.13 | 151.48 | 1.78 | 0.83 | 0.83 |
| 60.66 | 477.29 | 135.64 | 1.12 | 151.98 | 1.77 | 0.83 | 0.83 |
| 60.71 | 486.66 | 138.25 | 1.11 | 153.21 | 1.77 | 0.83 | 0.83 |
| 60.76 | 495.25 | 140.63 | 1.11 | 156.59 | 1.77 | 0.84 | 0.84 |
| 60.81 | 504.76 | 143.27 | 1.11 | 159.58 | 1.77 | 0.84 | 0.84 |
| 60.86 | 523.05 | 148.43 | 1.08 | 161.02 | 1.75 | 0.84 | 0.84 |
| 60.91 | 559.78 | 158.84 | 1.00 | 158.84 | 1.70 | 0.84 | 0.84 |
| 60.95 | 601.50 | 170.69 | 1.00 | 170.69 | 1.66 | 0.85 | 0.85 |
| 61.00 | 637.66 | 180.91 | 1.00 | 180.91 | 1.64 | 0.87 | 0.87 |
| 61.02 | 657.74 | 186.60 | 1.00 | 186.60 | 1.64 | 0.87 | 0.87 |
| 61.05 | 685.10 | 194.34 | 1.00 | 194.34 | 1.62 | 0.88 | 0.88 |
| 61.08 | 710.24 | 201.44 | 1.00 | 201.44 | 1.61 | 0.89 | 0.89 |
| 61.09 | 731.84 | 207.57 | 1.00 | 207.57 | 1.59 | 0.89 | 0.89 |
| 61.13 | 737.94 | 209.24 | 1.00 | 209.24 | 1.59 | 0.90 | 0.90 |
| 61.14 | 739.46 | 209.63 | 1.00 | 209.63 | 1.60 | 0.90 | 0.90 |
| 61.16 | 741.44 | 210.15 | 1.00 | 210.15 | 1.60 | 0.90 | 0.90 |
| 61.20 | 750.88 | 212.77 | 1.00 | 212.77 | 1.58 | 0.90 | 0.90 |
| 61.23 | 762.13 | 215.88 | 1.00 | 215.88 | 1.56 | 0.90 | 0.90 |
| 61.24 | 766.92 | 217.23 | 1.00 | 217.23 | 1.52 | 0.90 | 0.90 |
| 61.29 | 758.86 | 214.83 | 1.00 | 214.83 | 1.51 | 0.90 | 0.90 |
| 61.30 | 744.24 | 210.65 | 1.00 | 210.65 | 1.52 | 0.90 | 0.90 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 61.33 | 734.57 | 207.82 | 1.00 | 207.82 | 1.55 | 0.90 | 0.90 |
| 61.38 | 730.90 | 206.66 | 1.00 | 206.66 | 1.55 | 0.89 | 0.89 |
| 61.43 | 731.07 | 206.60 | 1.00 | 206.60 | 1.53 | 0.89 | 0.89 |
| 61.48 | 738.25 | 208.54 | 1.00 | 208.54 | 1.50 | 0.90 | 0.90 |
| 61.53 | 750.91 | 212.02 | 1.00 | 212.02 | 1.48 | 0.90 | 0.90 |
| 61.56 | 754.78 | 213.05 | 1.00 | 213.05 | 1.48 | 0.90 | 0.90 |
| 61.58 | 726.93 | 205.10 | 1.00 | 205.10 | 1.50 | 0.89 | 0.89 |
| 61.59 | 702.39 | 198.13 | 1.00 | 198.13 | 1.52 | 0.88 | 0.88 |
| 61.62 | 600.70 | 169.24 | 1.00 | 169.24 | 1.61 | 0.85 | 0.85 |
| 61.63 | 595.30 | 167.67 | 1.00 | 167.67 | 1.61 | 0.85 | 0.85 |
| 61.67 | 588.36 | 165.65 | 1.00 | 165.65 | 1.62 | 0.85 | 0.85 |
| 61.71 | 662.66 | 186.61 | 1.00 | 186.61 | 1.55 | 0.87 | 0.87 |
| 61.76 | 655.52 | 184.50 | 1.00 | 184.50 | 1.55 | 0.87 | 0.87 |
| 61.81 | 634.02 | 178.32 | 1.00 | 178.32 | 1.54 | 0.86 | 0.86 |
| 61.86 | 615.02 | 172.85 | 1.00 | 172.85 | 1.52 | 0.86 | 0.86 |
| 61.87 | 600.83 | 168.83 | 1.00 | 168.83 | 1.48 | 0.85 | 0.85 |
| 61.91 | 588.87 | 165.39 | 1.00 | 165.39 | 1.44 | 0.85 | 0.85 |
| 61.95 | 578.02 | 162.25 | 1.00 | 162.25 | 1.42 | 0.84 | 0.84 |
| 61.96 | 566.74 | 159.04 | 1.00 | 159.04 | 1.42 | 0.84 | 0.84 |
| 62.00 | 553.70 | 155.30 | 1.00 | 155.30 | 1.45 | 0.83 | 0.83 |
| 62.04 | 535.16 | 150.01 | 1.00 | 150.01 | 1.49 | 0.83 | 0.83 |
| 62.06 | 510.97 | 143.15 | 1.00 | 143.15 | 1.55 | 0.82 | 0.82 |
| 62.10 | 491.66 | 137.65 | 1.00 | 137.65 | 1.60 | 0.81 | 0.81 |
| 62.14 | 475.52 | 133.04 | 1.00 | 133.04 | 1.64 | 0.80 | 0.80 |
| 62.20 | 463.08 | 129.46 | 1.00 | 129.46 | 1.66 | 0.80 | 0.80 |
| 62.22 | 439.20 | 122.70 | 1.00 | 122.70 | 1.71 | 0.79 | 0.79 |
| 62.27 | 415.48 | 115.96 | 1.08 | 125.13 | 1.75 | 0.79 | 0.79 |
| 62.29 | 396.37 | 110.55 | 1.13 | 125.44 | 1.78 | 0.79 | 0.79 |
| 62.34 | 380.26 | 105.96 | 1.17 | 124.22 | 1.82 | 0.79 | 0.79 |
| 62.39 | 366.62 | 102.08 | 1.21 | 123.46 | 1.86 | 0.79 | 0.79 |
| 62.43 | 347.78 | 96.73 | 1.26 | 121.51 | 1.93 | 0.79 | 0.79 |
| 62.49 | 340.13 | 94.52 | 1.28 | 121.38 | 1.97 | 0.79 | 0.79 |
| 62.57 | 336.43 | 93.40 | 1.30 | 121.70 | 1.99 | 0.79 | 0.79 |
| 62.68 | 357.18 | 99.12 | 1.29 | 127.79 | 1.98 | 0.80 | 0.80 |
| 62.75 | 398.26 | 110.56 | 1.26 | 139.12 | 1.93 | 0.81 | 0.81 |
| 62.87 | 426.23 | 118.25 | 1.24 | 146.86 | 1.91 | 0.82 | 0.82 |
| 62.88 | 409.21 | 113.48 | 1.25 | 142.25 | 1.93 | 0.82 | 0.82 |
| 62.89 | 424.34 | 117.70 | 1.21 | 142.29 | 1.86 | 0.82 | 0.82 |
| 62.93 | 485.42 | 134.75 | 1.06 | 142.80 | 1.74 | 0.82 | 0.82 |
| 62.98 | 571.92 | 158.87 | 1.00 | 158.87 | 1.61 | 0.84 | 0.84 |
| 63.02 | 620.24 | 172.30 | 1.00 | 172.30 | 1.47 | 0.86 | 0.86 |
| 63.07 | 658.55 | 182.93 | 1.00 | 182.93 | 1.31 | 0.87 | 0.87 |
| 63.12 | 710.78 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 63.14 | 752.36 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 63.17 | 781.30 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 63.17 | 799.36 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 63.20 | 825.98 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 63.21 | 830.83 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |

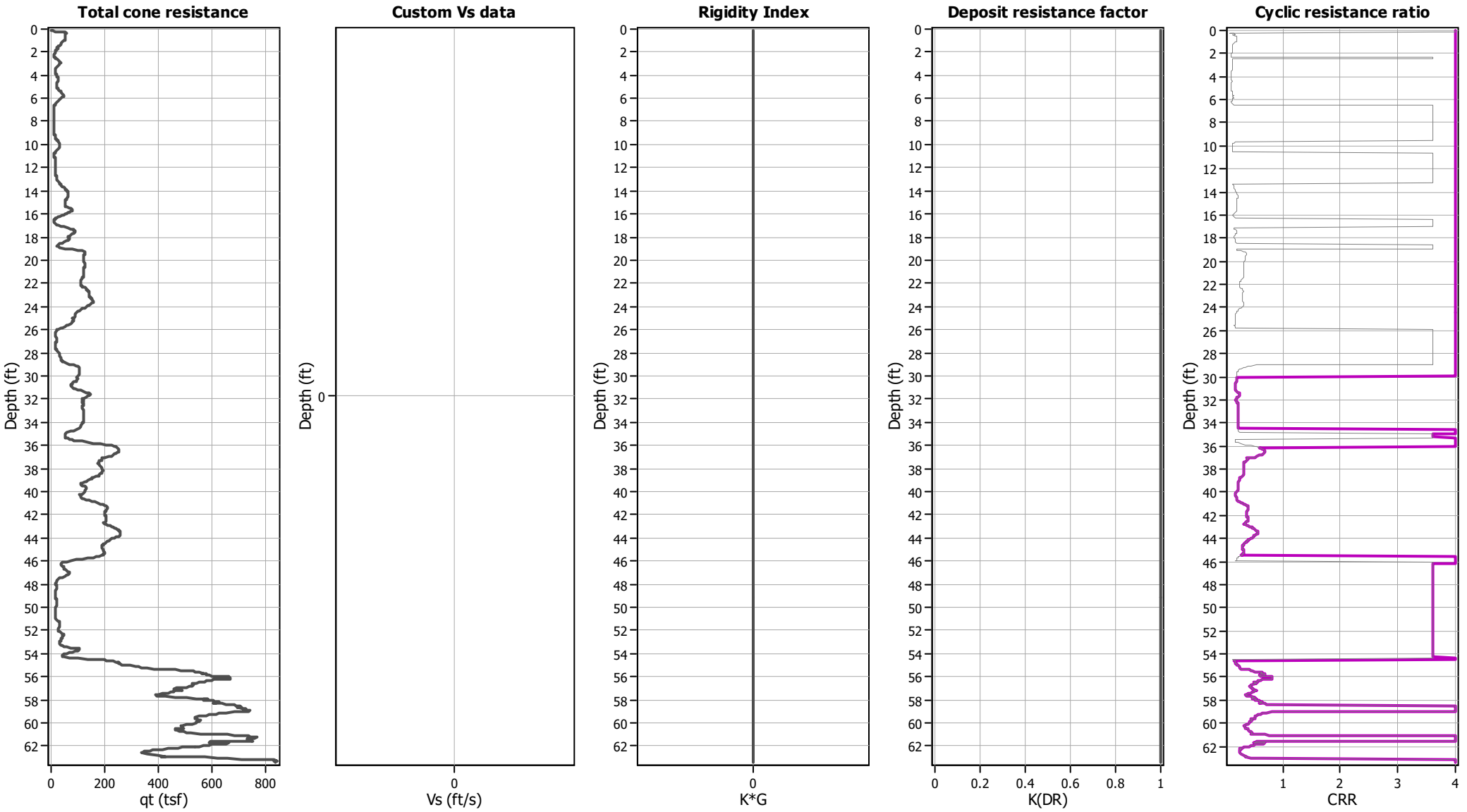
**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 63.23 | 842.91 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 63.26 | 834.75 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 63.28 | 841.52 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 63.31 | 838.10 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 63.32 | 839.38 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 63.36 | 837.12 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 63.40 | 836.85 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |

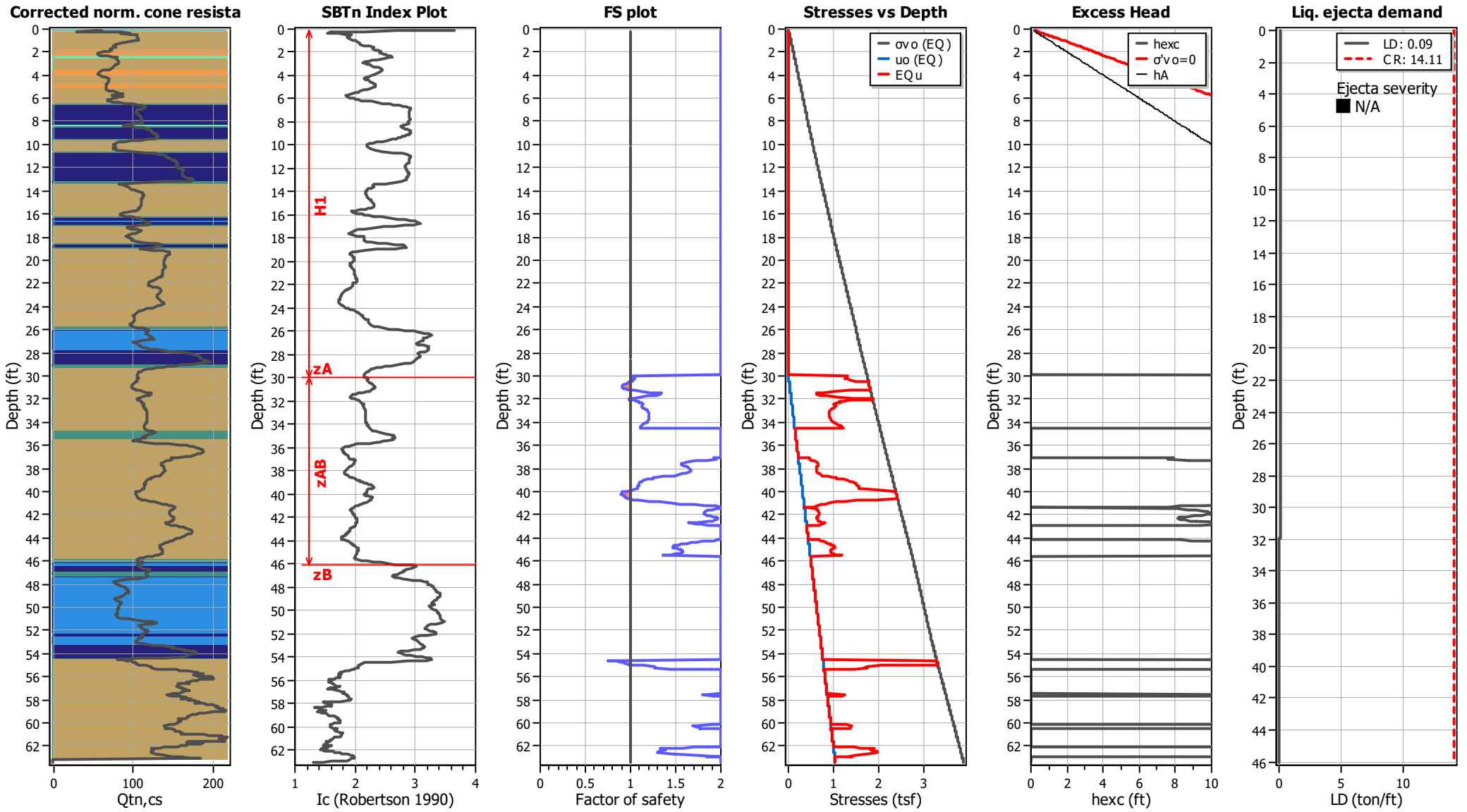
**Abbreviations**

$q_t$: Total cone resistance
$K_c$: Cone resistance correction factor due to fines
$Q_{tn,cs}$: Adjusted and corrected cone resistance due to fines
$I_c$: Soil behavior type index
$S_{u(liq)}/\sigma'_v$: Calculated liquefied undrained strength ratio
$S_{u(peak)}/\sigma'_v$: Calculated peak undrained strength ratio

## Aging Calculation Estimation



## Ejecta Severity Estimation



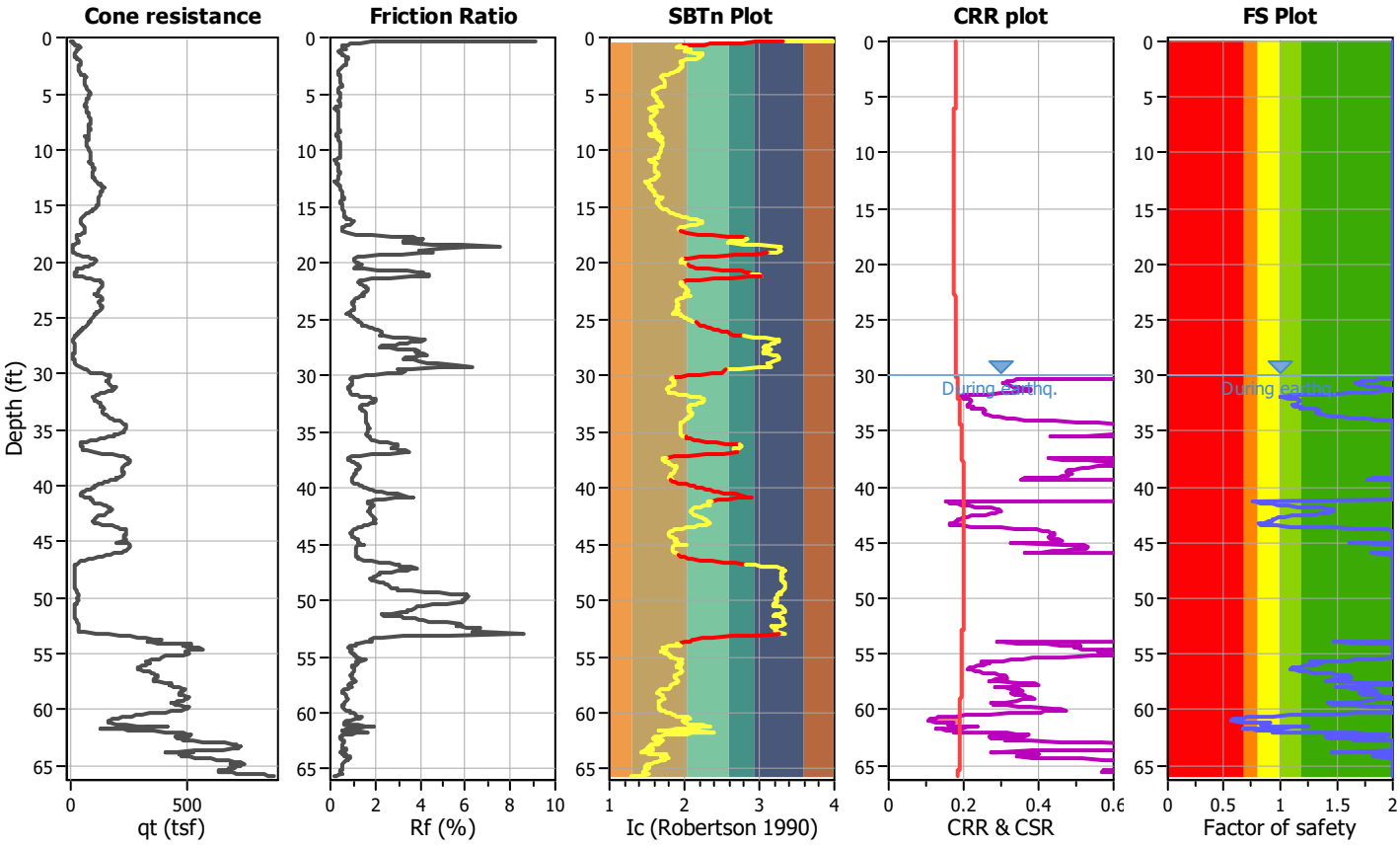
## LIQUEFACTION ANALYSIS REPORT

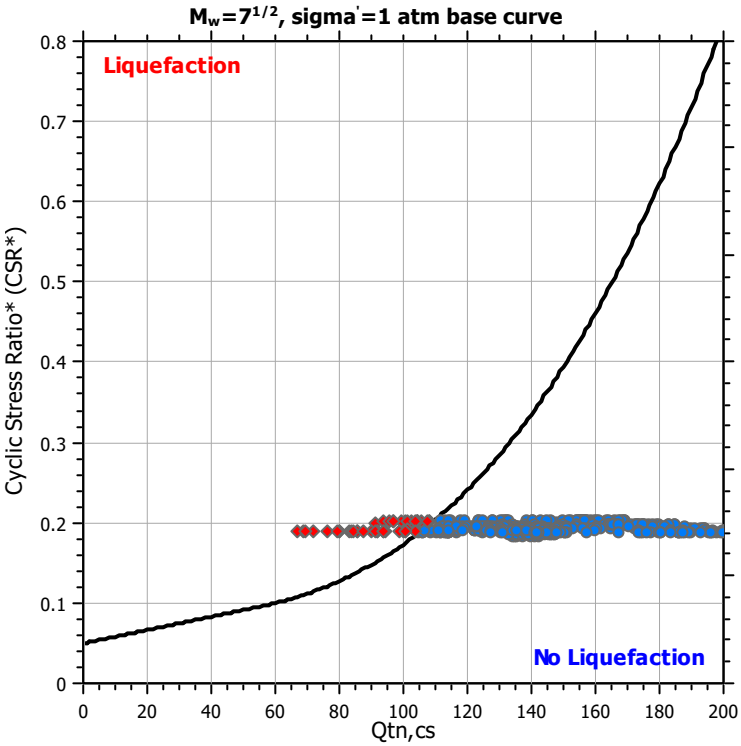
**Project title : W1857-88-01** **Location : 331 The City Drive S**

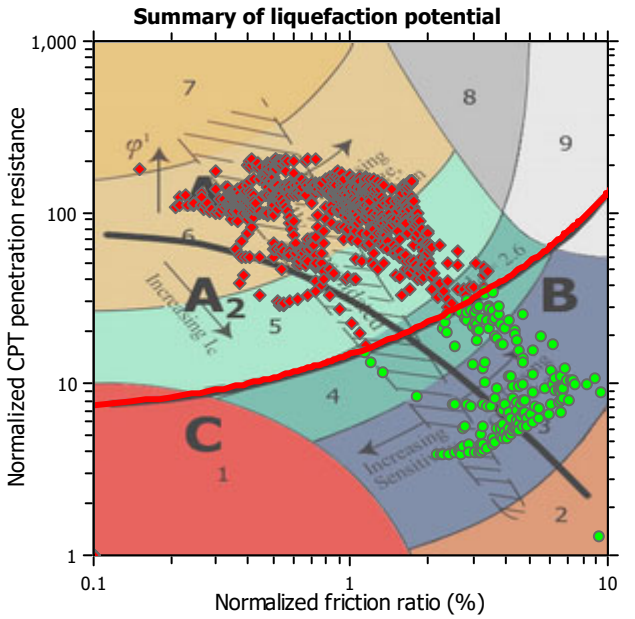
**CPT file : CPT-2**

**Input parameters and analysis data**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 54.00 ft | Use fill: | No | Clay like behavior applied: | Sands only |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 30.00 ft | Fill height: | N/A | Limit depth applied: | No |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth: | N/A |
| Earthquake magnitude $M_w$: | 6.12 | Ic cut-off value: | 2.60 | Trans. detect. applied: | Yes | MSF method: | Method based |
| Peak ground acceleration: | 0.42 | Unit weight calculation: | Based on SBT | $K_\sigma$ applied: | Yes | | |

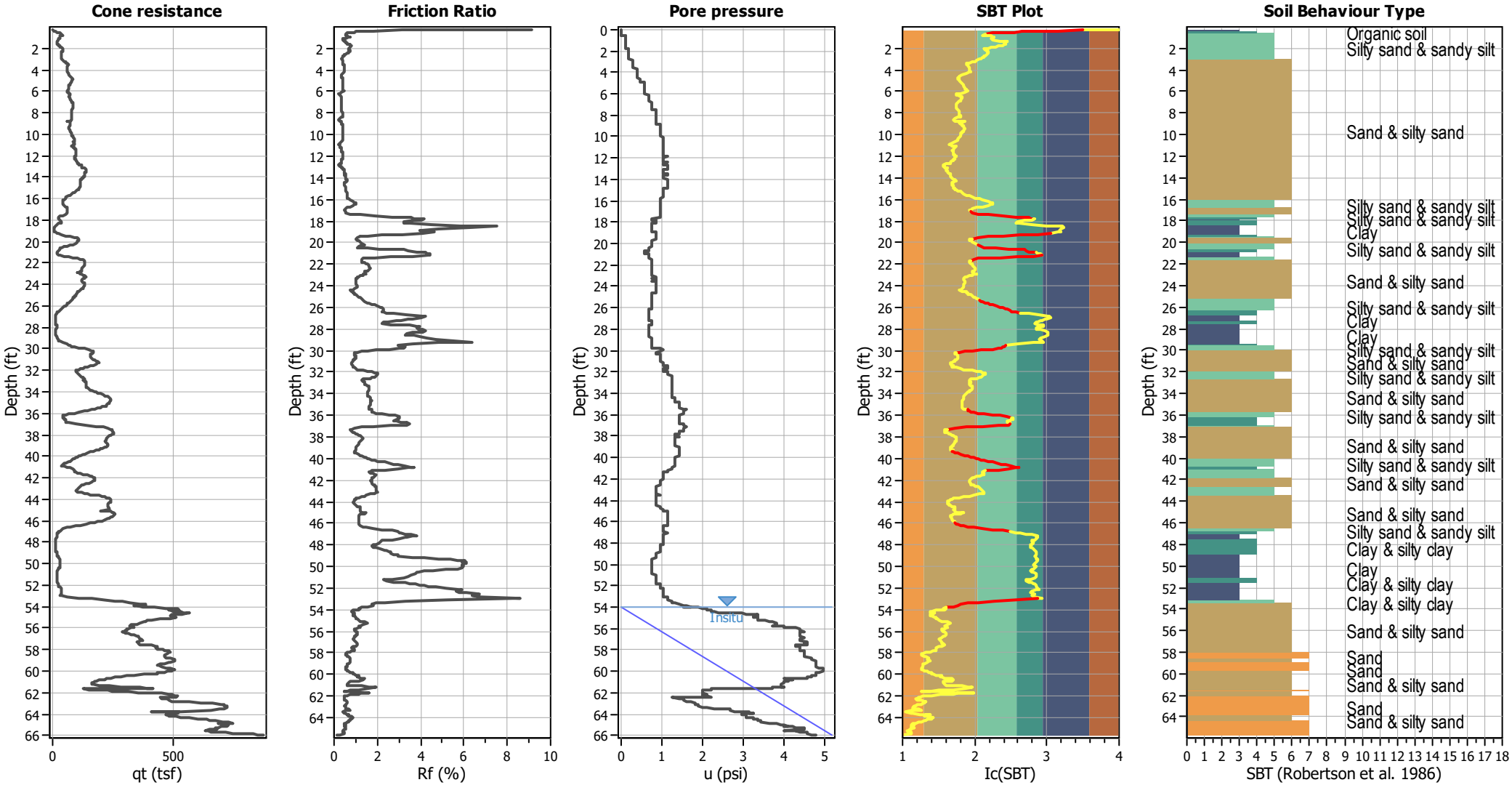



Zone $A_1$: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone $A_2$: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

# CPT basic interpretation plots



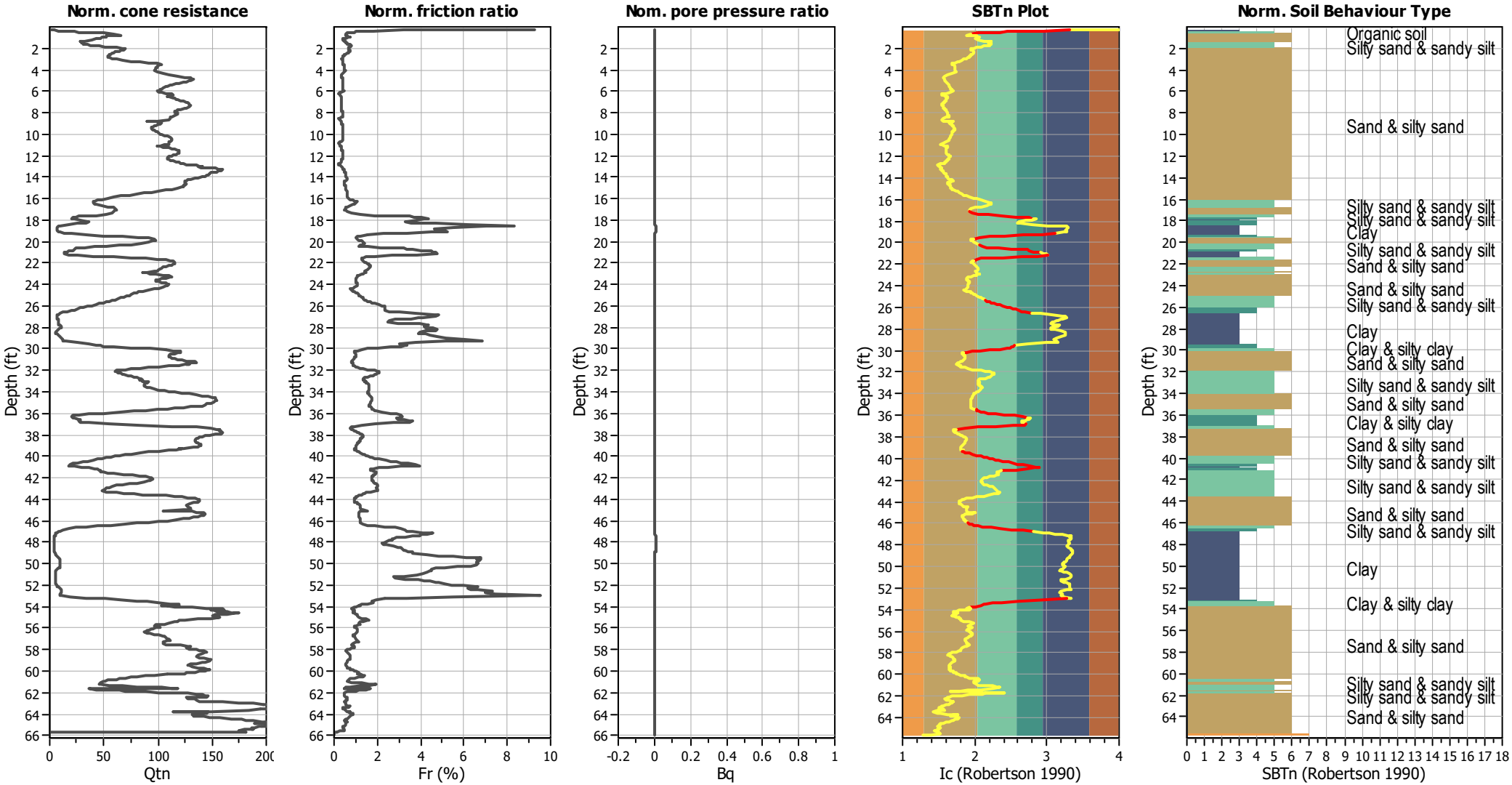

## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.12 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.42 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

**SBT legend**

| | | |
|---|---|---|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

# CPT basic interpretation plots (normalized)



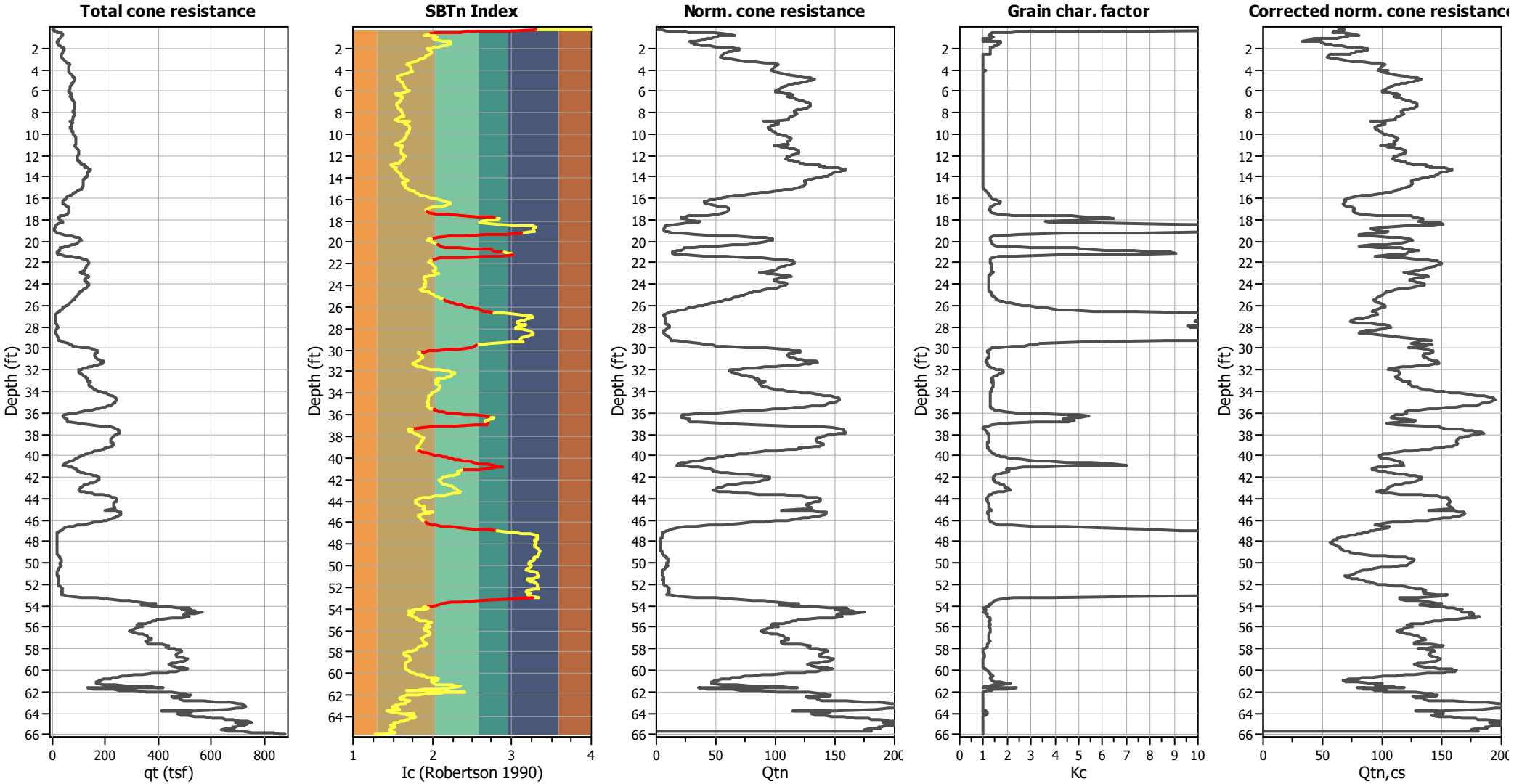

## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.12 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.42 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

**SBTn legend**

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

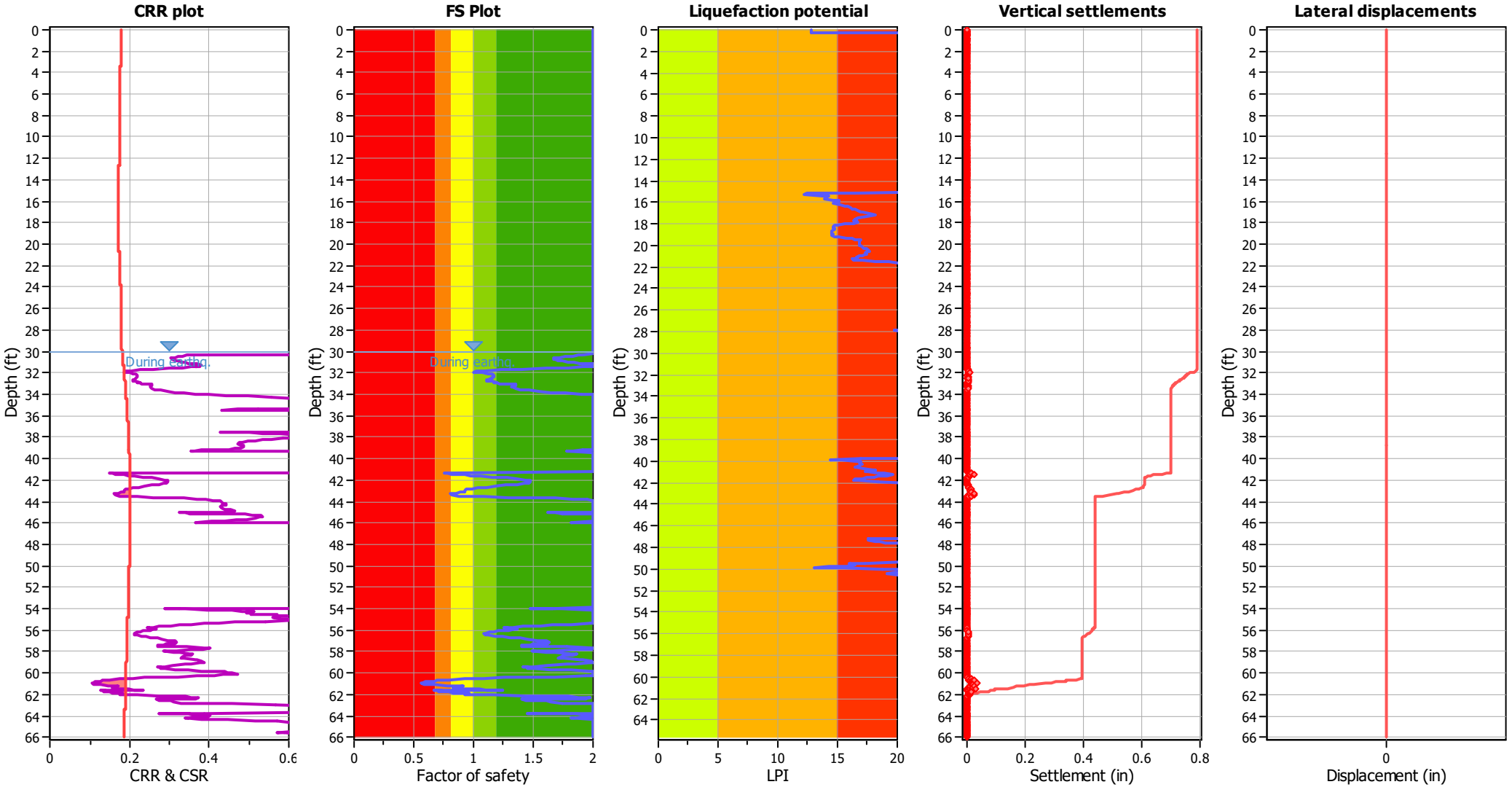
# Liquefaction analysis overall plots (intermediate results)




## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.12 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.42 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

# Liquefaction analysis overall plots




## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.12 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.42 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

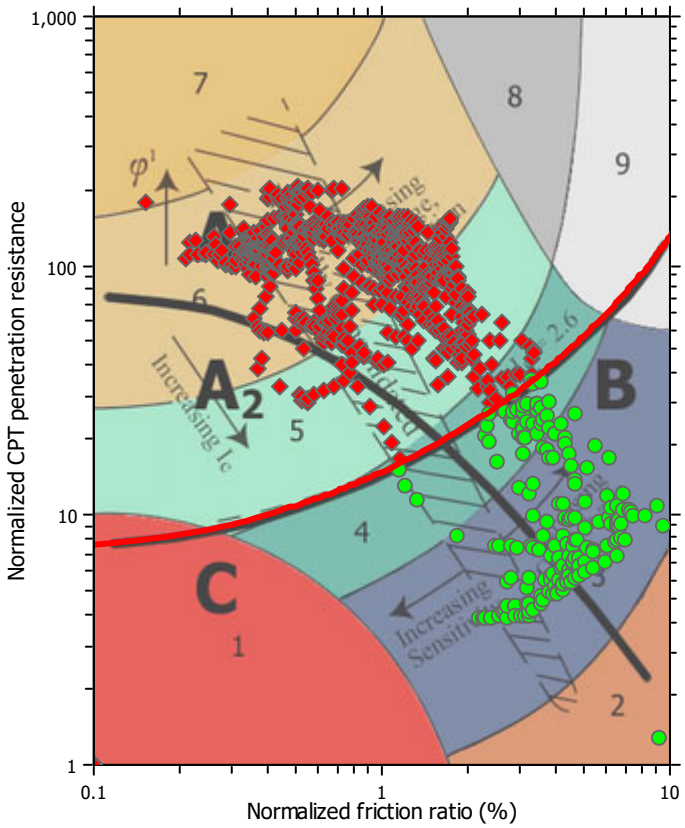
**F.S. color scheme**

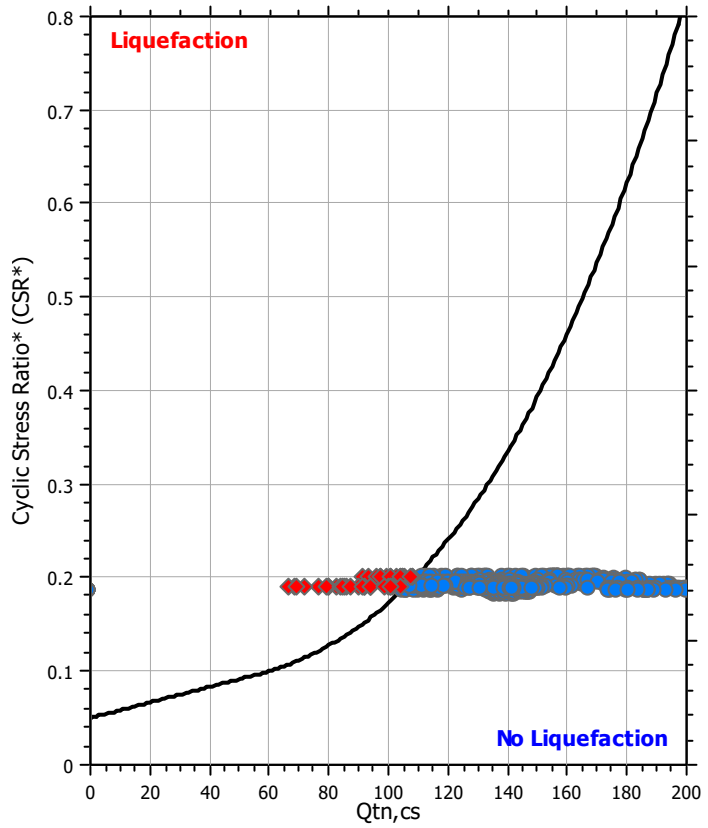
- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

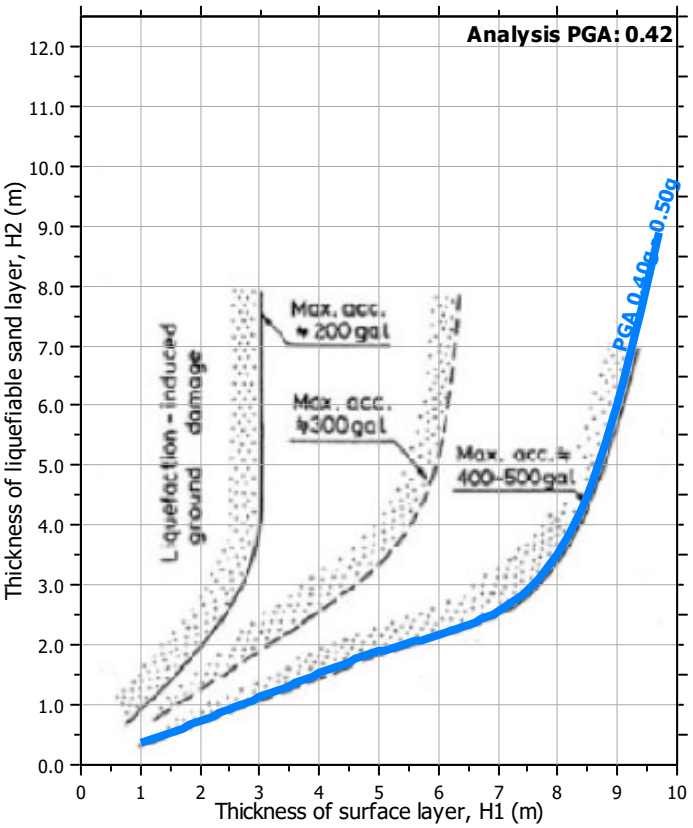
**LPI color scheme**

- Very high risk
- High risk
- Low risk

# Liquefaction analysis summary plots



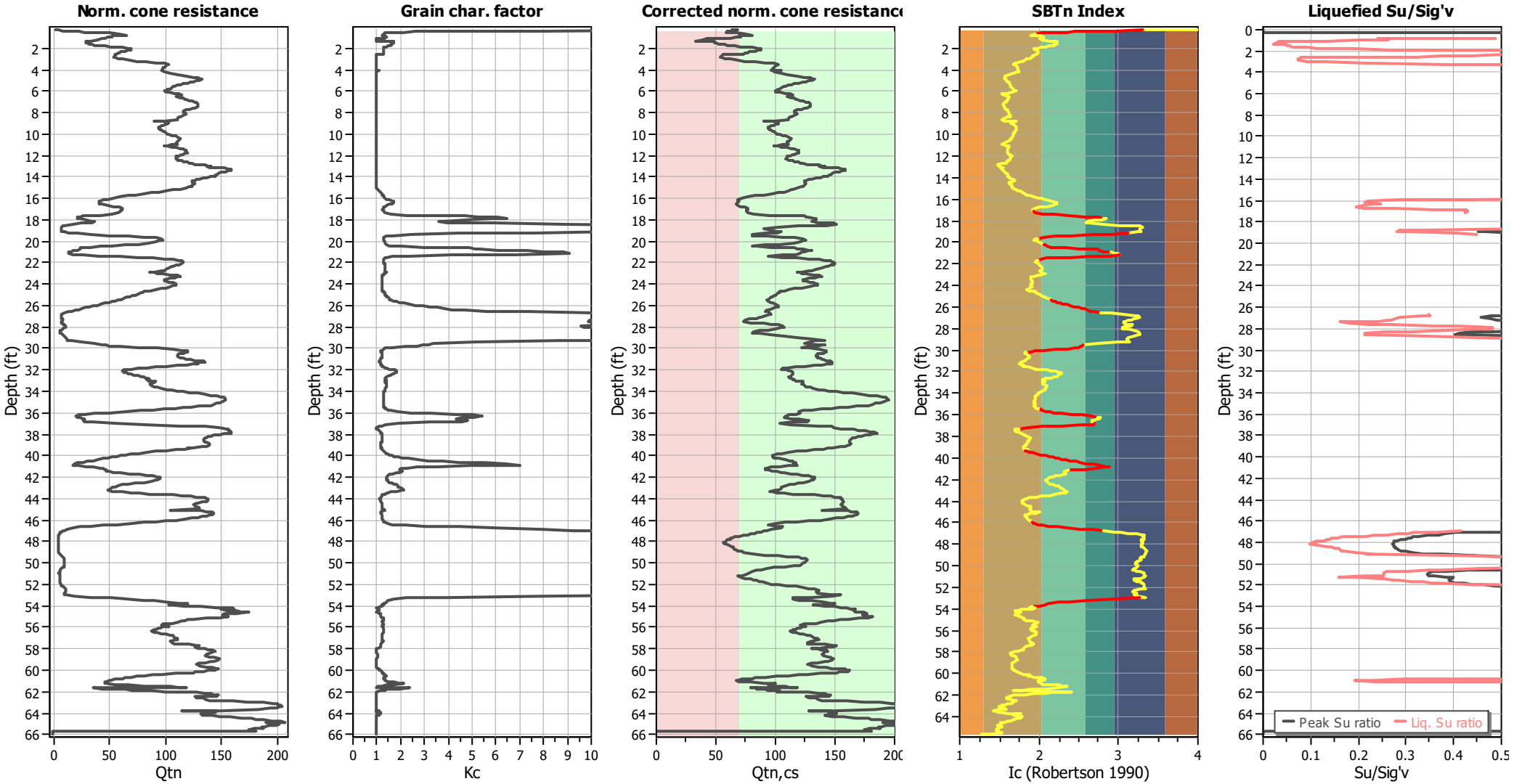




**Input parameters and analysis data**

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.12 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.42 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

## Check for strength loss plots (Robertson (2010))




### Input parameters and analysis data

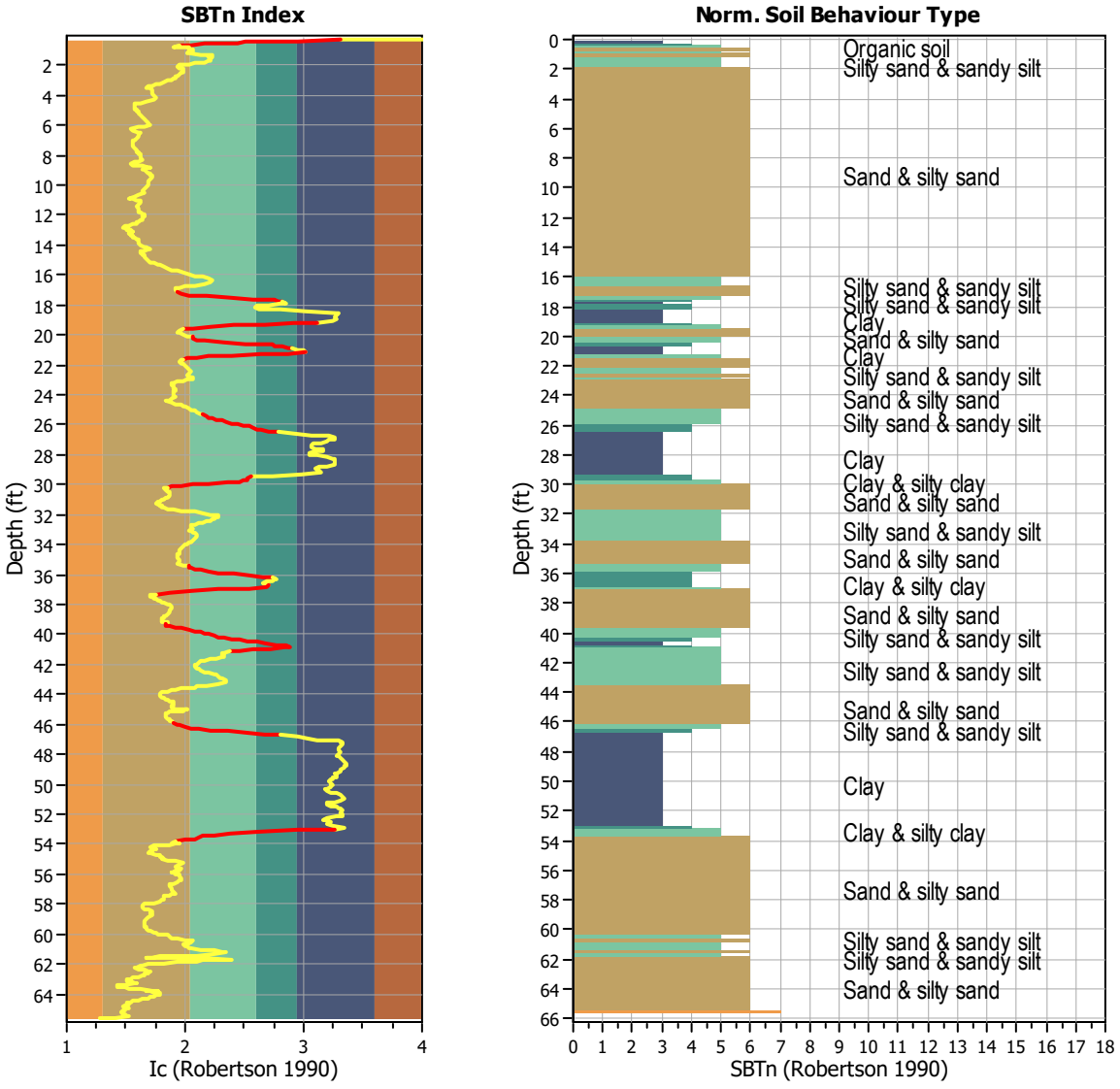
| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.12 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.42 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

# TRANSITION LAYER DETECTION ALGORITHM REPORT
## Summary Details & Plots

**Short description**

The software will delete data when the cone is in transition from either clay to sand or vise-versa. To do this the software requires a range of $I_c$ values over which the transition will be defined (typically somewhere between $1.80 < I_c < 3.0$) and a rate of change of $I_c$. Transitions typically occur when the rate of change of $I_c$ is fast (i.e. delta $I_c$ is small).

The $SBT_n$ plot below, displays in red the detected transition layers based on the parameters listed below the graphs.




| Transition layer algorithm properties | | General statistics | |
|---|---|---|---|
| $I_c$ minimum check value: | 1.70 | Total points in CPT file: | 1012 |
| $I_c$ maximum check value: | 3.00 | Total points excluded: | 145 |
| $I_c$ change ratio value: | 0.0250 | Exclusion percentage: | 14.33% |
| Minimum number of points in layer: | 4 | Number of layers detected: | 13 |

| Transition layer No | Number of points | Depth | $SBT_n$ number | $SBT_n$ description |
|---|---|---|---|---|
| Transition layer 1 | 13 | Start depth: 0.36 (ft) | 3 | Clay |
| | | End depth: 0.76 (ft) | 6 | Sand & silty sand |
| Transition layer 2 | 10 | Start depth: 17.22 (ft) | 6 | Sand & silty sand |
| | | End depth: 17.85 (ft) | 3 | Clay |
| Transition layer 3 | 7 | Start depth: 19.22 (ft) | 3 | Clay |
| | | End depth: 19.69 (ft) | 6 | Sand & silty sand |
| Transition layer 4 | 13 | Start depth: 20.26 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 20.96 (ft) | 3 | Clay |
| Transition layer 5 | 8 | Start depth: 21.25 (ft) | 3 | Clay |
| | | End depth: 21.69 (ft) | 6 | Sand & silty sand |
| Transition layer 6 | 16 | Start depth: 25.41 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 26.61 (ft) | 3 | Clay |
| Transition layer 7 | 12 | Start depth: 29.63 (ft) | 4 | Clay & silty clay |
| | | End depth: 30.24 (ft) | 6 | Sand & silty sand |
| Transition layer 8 | 11 | Start depth: 35.51 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 36.28 (ft) | 4 | Clay & silty clay |
| Transition layer 9 | 7 | Start depth: 36.86 (ft) | 4 | Clay & silty clay |
| | | End depth: 37.39 (ft) | 6 | Sand & silty sand |
| Transition layer 10 | 20 | Start depth: 39.39 (ft) | 6 | Sand & silty sand |
| | | End depth: 40.84 (ft) | 3 | Clay |
| Transition layer 11 | 7 | Start depth: 40.84 (ft) | 3 | Clay |
| | | End depth: 41.22 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 12 | 11 | Start depth: 46.02 (ft) | 6 | Sand & silty sand |
| | | End depth: 46.84 (ft) | 3 | Clay |
| Transition layer 13 | 10 | Start depth: 53.10 (ft) | 3 | Clay |
| | | End depth: 53.92 (ft) | 6 | Sand & silty sand |

Start depth: Depth where the transition layer begins
End depth: Depth where the transition layer ends

**:: Field input data ::**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1 | 0.01 | 0.00 | 0.00 | 0.00 | N/A | 120.90 |
| 2 | 0.04 | -0.10 | 0.01 | 0.00 | N/A | 120.90 |
| 3 | 0.08 | 0.00 | 0.01 | 0.00 | N/A | 120.90 |
| 4 | 0.10 | -0.10 | 0.01 | 0.00 | N/A | 120.90 |
| 5 | 0.13 | 0.00 | 0.02 | 0.00 | N/A | 120.90 |
| 6 | 0.18 | 0.00 | 0.03 | 0.00 | N/A | 120.90 |
| 7 | 0.22 | 0.00 | 0.05 | 0.00 | N/A | 120.90 |
| 8 | 0.27 | 0.00 | 0.08 | 0.00 | 100.00 | 90.68 |
| 9 | 0.33 | 2.43 | 0.09 | 0.00 | 81.96 | 94.98 |
| 10 | 0.36 | 5.87 | 0.09 | 0.00 | 55.30 | 96.98 |
| 11 | 0.37 | 7.19 | 0.09 | 0.00 | 43.87 | 97.82 |
| 12 | 0.38 | 8.30 | 0.10 | 0.00 | 39.79 | 98.46 |
| 13 | 0.42 | 9.11 | 0.11 | 0.00 | 36.64 | 99.41 |
| 14 | 0.44 | 10.73 | 0.12 | 0.00 | 34.37 | 100.58 |
| 15 | 0.47 | 11.94 | 0.14 | 0.00 | 31.37 | 101.55 |
| 16 | 0.47 | 13.87 | 0.14 | 0.00 | 28.15 | 102.58 |
| 17 | 0.52 | 16.90 | 0.16 | 0.00 | 24.51 | 103.55 |
| 18 | 0.56 | 20.24 | 0.17 | 0.00 | 21.06 | 104.60 |
| 19 | 0.58 | 24.29 | 0.18 | 0.00 | 17.61 | 105.59 |
| 20 | 0.61 | 30.26 | 0.19 | 0.10 | 14.26 | 106.54 |
| 21 | 0.66 | 37.55 | 0.20 | 0.10 | 11.58 | 107.34 |
| 22 | 0.76 | 43.02 | 0.21 | 0.10 | 10.25 | 107.74 |
| 23 | 0.80 | 41.80 | 0.21 | 0.10 | 11.05 | 107.65 |
| 24 | 0.81 | 31.17 | 0.21 | 0.10 | 12.33 | 107.41 |
| 25 | 0.85 | 33.50 | 0.20 | 0.10 | 13.76 | 107.15 |
| 26 | 0.86 | 32.59 | 0.20 | 0.10 | 13.66 | 107.29 |
| 27 | 0.90 | 32.29 | 0.22 | 0.10 | 14.33 | 107.68 |
| 28 | 0.95 | 31.78 | 0.24 | 0.10 | 14.92 | 108.07 |
| 29 | 1.00 | 31.38 | 0.24 | 0.10 | 14.72 | 106.94 |
| 30 | 1.05 | 28.44 | 0.12 | 0.10 | 14.03 | 104.83 |
| 31 | 1.14 | 26.82 | 0.10 | 0.10 | 5.00 | 101.56 |
| 32 | 1.24 | 24.39 | 0.08 | 0.10 | 5.00 | 100.45 |
| 33 | 1.31 | 21.66 | 0.09 | 0.10 | 5.00 | 100.02 |
| 34 | 1.36 | 15.49 | 0.10 | 0.10 | 19.77 | 100.07 |
| 35 | 1.37 | 16.65 | 0.10 | 0.10 | 20.16 | 100.28 |
| 36 | 1.39 | 21.17 | 0.10 | 0.10 | 19.32 | 100.40 |
| 37 | 1.43 | 17.81 | 0.10 | 0.10 | 18.80 | 100.44 |
| 38 | 1.44 | 18.12 | 0.10 | 0.10 | 19.86 | 100.33 |
| 39 | 1.49 | 18.22 | 0.10 | 0.10 | 19.73 | 100.60 |
| 40 | 1.53 | 18.72 | 0.11 | 0.10 | 19.64 | 101.22 |
| 41 | 1.58 | 19.74 | 0.12 | 0.10 | 19.61 | 102.17 |
| 42 | 1.63 | 20.55 | 0.14 | 0.10 | 19.60 | 103.26 |
| 43 | 1.68 | 21.56 | 0.16 | 0.10 | 19.49 | 104.34 |
| 44 | 1.72 | 22.98 | 0.18 | 0.10 | 18.93 | 105.39 |
| 45 | 1.77 | 25.40 | 0.20 | 0.10 | 17.98 | 106.40 |
| 46 | 1.82 | 28.04 | 0.22 | 0.19 | 16.68 | 107.38 |
| 47 | 1.86 | 31.48 | 0.24 | 0.19 | 15.32 | 108.26 |
| 48 | 1.92 | 35.02 | 0.26 | 0.19 | 13.84 | 108.95 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 49 | 1.97 | 38.77 | 0.26 | 0.19 | 12.52 | 109.50 |
| 50 | 2.01 | 42.21 | 0.27 | 0.19 | 11.75 | 110.13 |
| 51 | 2.09 | 43.83 | 0.31 | 0.19 | 11.40 | 110.51 |
| 52 | 2.16 | 43.62 | 0.30 | 0.19 | 11.59 | 110.65 |
| 53 | 2.20 | 41.70 | 0.29 | 0.19 | 12.00 | 110.35 |
| 54 | 2.25 | 39.07 | 0.28 | 0.19 | 12.39 | 109.98 |
| 55 | 2.31 | 38.77 | 0.27 | 0.19 | 12.55 | 109.49 |
| 56 | 2.37 | 37.96 | 0.25 | 0.19 | 12.51 | 108.98 |
| 57 | 2.40 | 36.64 | 0.24 | 0.19 | 12.56 | 108.51 |
| 58 | 2.46 | 36.03 | 0.23 | 0.19 | 12.53 | 107.92 |
| 59 | 2.54 | 35.22 | 0.20 | 0.19 | 12.28 | 107.21 |
| 60 | 2.59 | 34.82 | 0.18 | 0.19 | 5.00 | 106.07 |
| 61 | 2.69 | 34.01 | 0.14 | 0.19 | 5.00 | 105.12 |
| 62 | 2.74 | 33.91 | 0.14 | 0.19 | 5.00 | 104.27 |
| 63 | 2.83 | 33.91 | 0.13 | 0.29 | 5.00 | 104.04 |
| 64 | 2.88 | 33.81 | 0.13 | 0.29 | 5.00 | 103.96 |
| 65 | 2.98 | 35.32 | 0.13 | 0.29 | 5.00 | 104.13 |
| 66 | 3.03 | 37.96 | 0.13 | 0.29 | 5.00 | 104.69 |
| 67 | 3.12 | 42.41 | 0.15 | 0.29 | 5.00 | 105.94 |
| 68 | 3.21 | 46.56 | 0.19 | 0.29 | 5.00 | 107.29 |
| 69 | 3.27 | 51.52 | 0.21 | 0.29 | 5.00 | 108.51 |
| 70 | 3.34 | 56.88 | 0.23 | 0.29 | 5.00 | 109.32 |
| 71 | 3.41 | 62.75 | 0.24 | 0.29 | 5.00 | 110.12 |
| 72 | 3.51 | 66.09 | 0.27 | 0.29 | 5.00 | 110.66 |
| 73 | 3.55 | 63.76 | 0.28 | 0.29 | 5.00 | 111.08 |
| 74 | 3.65 | 61.03 | 0.29 | 0.38 | 5.00 | 111.24 |
| 75 | 3.75 | 62.45 | 0.30 | 0.38 | 5.00 | 111.31 |
| 76 | 3.83 | 61.64 | 0.29 | 0.38 | 5.00 | 111.22 |
| 77 | 3.94 | 60.22 | 0.28 | 0.38 | 5.00 | 111.12 |
| 78 | 4.04 | 61.44 | 0.28 | 0.38 | 5.00 | 111.07 |
| 79 | 4.13 | 59.21 | 0.29 | 0.38 | 7.02 | 111.59 |
| 80 | 4.24 | 61.23 | 0.34 | 0.38 | 5.00 | 111.65 |
| 81 | 4.38 | 64.57 | 0.29 | 0.38 | 5.00 | 110.97 |
| 82 | 4.50 | 69.64 | 0.19 | 0.38 | 4.69 | 110.20 |
| 83 | 4.62 | 72.57 | 0.25 | 0.48 | 3.95 | 110.29 |
| 84 | 4.71 | 80.16 | 0.28 | 0.48 | 3.93 | 111.40 |
| 85 | 4.75 | 80.92 | 0.29 | 0.48 | 3.90 | 112.19 |
| 86 | 4.84 | 81.68 | 0.33 | 0.48 | 3.97 | 112.65 |
| 87 | 4.89 | 83.70 | 0.33 | 0.57 | 4.02 | 112.99 |
| 88 | 4.94 | 83.40 | 0.33 | 0.57 | 4.04 | 113.02 |
| 89 | 4.98 | 81.68 | 0.33 | 0.57 | 4.17 | 112.97 |
| 90 | 5.07 | 80.06 | 0.33 | 0.57 | 4.33 | 112.85 |
| 91 | 5.13 | 78.54 | 0.33 | 0.57 | 4.49 | 112.71 |
| 92 | 5.17 | 76.82 | 0.32 | 0.57 | 4.57 | 112.40 |
| 93 | 5.27 | 75.00 | 0.30 | 0.57 | 4.72 | 112.10 |
| 94 | 5.32 | 72.47 | 0.30 | 0.57 | 4.84 | 111.72 |
| 95 | 5.42 | 70.75 | 0.28 | 0.57 | 4.99 | 111.41 |
| 96 | 5.46 | 69.33 | 0.27 | 0.57 | 5.00 | 111.08 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 97 | 5.56 | 67.91 | 0.26 | 0.57 | 5.00 | 110.88 |
| 98 | 5.61 | 66.80 | 0.26 | 0.57 | 5.00 | 110.75 |
| 99 | 5.71 | 65.89 | 0.26 | 0.57 | 5.00 | 110.68 |
| 100 | 5.78 | 64.88 | 0.26 | 0.57 | 5.00 | 110.63 |
| 101 | 5.85 | 63.97 | 0.26 | 0.57 | 5.00 | 110.57 |
| 102 | 5.95 | 62.65 | 0.26 | 0.57 | 5.00 | 110.53 |
| 103 | 6.00 | 61.84 | 0.26 | 0.57 | 5.00 | 110.86 |
| 104 | 6.09 | 62.45 | 0.30 | 0.67 | 5.00 | 109.42 |
| 105 | 6.14 | 64.47 | 0.11 | 0.67 | 4.43 | 108.06 |
| 106 | 6.24 | 67.31 | 0.14 | 0.67 | 3.33 | 106.15 |
| 107 | 6.30 | 70.75 | 0.17 | 0.67 | 3.46 | 107.71 |
| 108 | 6.38 | 73.18 | 0.20 | 0.67 | 3.76 | 108.87 |
| 109 | 6.46 | 70.24 | 0.23 | 0.67 | 4.34 | 109.63 |
| 110 | 6.50 | 65.28 | 0.24 | 0.67 | 4.73 | 110.08 |
| 111 | 6.56 | 69.74 | 0.25 | 0.67 | 4.82 | 110.41 |
| 112 | 6.63 | 71.46 | 0.26 | 0.67 | 4.59 | 110.75 |
| 113 | 6.68 | 72.67 | 0.26 | 0.67 | 4.51 | 110.97 |
| 114 | 6.76 | 73.38 | 0.27 | 0.76 | 4.44 | 111.12 |
| 115 | 6.82 | 74.39 | 0.27 | 0.76 | 4.37 | 111.23 |
| 116 | 6.88 | 75.81 | 0.27 | 0.76 | 4.21 | 111.32 |
| 117 | 6.96 | 78.34 | 0.27 | 0.76 | 3.98 | 111.40 |
| 118 | 7.03 | 80.97 | 0.27 | 0.76 | 3.77 | 111.49 |
| 119 | 7.11 | 82.29 | 0.27 | 0.76 | 3.64 | 111.55 |
| 120 | 7.16 | 82.89 | 0.27 | 0.76 | 3.60 | 111.70 |
| 121 | 7.26 | 83.91 | 0.29 | 0.76 | 3.62 | 111.86 |
| 122 | 7.31 | 84.62 | 0.29 | 0.76 | 3.65 | 112.04 |
| 123 | 7.40 | 84.72 | 0.29 | 0.76 | 3.70 | 112.13 |
| 124 | 7.45 | 84.51 | 0.30 | 0.76 | 3.76 | 112.18 |
| 125 | 7.54 | 84.31 | 0.30 | 0.86 | 3.86 | 112.16 |
| 126 | 7.60 | 83.00 | 0.30 | 0.86 | 3.98 | 112.07 |
| 127 | 7.68 | 81.17 | 0.29 | 0.86 | 4.16 | 111.94 |
| 128 | 7.74 | 79.45 | 0.29 | 0.86 | 4.33 | 111.82 |
| 129 | 7.83 | 78.44 | 0.29 | 0.86 | 4.51 | 111.77 |
| 130 | 7.90 | 77.73 | 0.29 | 0.86 | 4.60 | 111.85 |
| 131 | 7.98 | 78.85 | 0.30 | 0.86 | 4.65 | 112.09 |
| 132 | 8.05 | 80.67 | 0.31 | 0.86 | 4.62 | 112.42 |
| 133 | 8.12 | 82.29 | 0.32 | 0.86 | 4.65 | 112.70 |
| 134 | 8.19 | 82.08 | 0.33 | 0.86 | 4.77 | 112.88 |
| 135 | 8.27 | 80.57 | 0.34 | 0.86 | 5.03 | 113.00 |
| 136 | 8.36 | 78.74 | 0.34 | 0.86 | 5.00 | 112.80 |
| 137 | 8.41 | 78.04 | 0.31 | 0.86 | 4.51 | 111.23 |
| 138 | 8.50 | 78.24 | 0.15 | 0.86 | 3.85 | 109.61 |
| 139 | 8.60 | 78.95 | 0.18 | 0.86 | 3.40 | 108.40 |
| 140 | 8.70 | 79.15 | 0.21 | 0.86 | 3.76 | 109.30 |
| 141 | 8.74 | 78.14 | 0.22 | 0.86 | 4.96 | 109.52 |
| 142 | 8.78 | 55.57 | 0.22 | 0.86 | 5.00 | 109.55 |
| 143 | 8.81 | 62.96 | 0.23 | 0.96 | 5.00 | 109.69 |
| 144 | 8.86 | 72.17 | 0.24 | 0.96 | 5.00 | 110.13 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 145 | 8.91 | 74.09 | 0.25 | 0.96 | 5.00 | 110.49 |
| 146 | 8.94 | 75.00 | 0.25 | 0.96 | 5.00 | 110.79 |
| 147 | 9.02 | 73.89 | 0.27 | 0.96 | 5.00 | 111.08 |
| 148 | 9.10 | 72.47 | 0.28 | 0.96 | 5.00 | 111.34 |
| 149 | 9.17 | 71.15 | 0.28 | 0.96 | 5.00 | 111.44 |
| 150 | 9.22 | 69.84 | 0.28 | 0.96 | 5.00 | 111.44 |
| 151 | 9.31 | 68.83 | 0.28 | 0.96 | 5.00 | 111.41 |
| 152 | 9.37 | 68.32 | 0.28 | 0.96 | 5.00 | 111.39 |
| 153 | 9.42 | 68.32 | 0.28 | 0.96 | 5.00 | 111.39 |
| 154 | 9.52 | 69.13 | 0.28 | 0.96 | 5.00 | 111.41 |
| 155 | 9.60 | 70.04 | 0.28 | 0.96 | 5.00 | 111.49 |
| 156 | 9.66 | 71.36 | 0.29 | 0.96 | 5.00 | 111.61 |
| 157 | 9.74 | 73.18 | 0.29 | 0.96 | 5.00 | 111.74 |
| 158 | 9.81 | 74.80 | 0.29 | 0.96 | 5.00 | 111.88 |
| 159 | 9.89 | 75.71 | 0.30 | 0.96 | 5.00 | 112.10 |
| 160 | 9.98 | 76.82 | 0.32 | 0.96 | 5.00 | 112.42 |
| 161 | 10.03 | 78.54 | 0.33 | 1.05 | 5.00 | 112.78 |
| 162 | 10.13 | 80.97 | 0.34 | 1.05 | 5.00 | 113.14 |
| 163 | 10.23 | 84.21 | 0.35 | 1.05 | 5.00 | 113.45 |
| 164 | 10.32 | 86.94 | 0.36 | 1.05 | 5.00 | 113.68 |
| 165 | 10.38 | 88.16 | 0.36 | 1.05 | 5.00 | 113.80 |
| 166 | 10.47 | 89.17 | 0.37 | 1.05 | 5.00 | 113.83 |
| 167 | 10.57 | 88.66 | 0.36 | 1.05 | 5.00 | 113.81 |
| 168 | 10.66 | 87.45 | 0.36 | 1.05 | 4.50 | 112.22 |
| 169 | 10.76 | 87.65 | 0.16 | 1.05 | 3.90 | 110.65 |
| 170 | 10.85 | 87.85 | 0.19 | 1.05 | 3.30 | 108.99 |
| 171 | 10.92 | 88.46 | 0.22 | 1.05 | 3.57 | 109.92 |
| 172 | 11.00 | 89.27 | 0.23 | 1.05 | 4.11 | 110.26 |
| 173 | 11.07 | 77.73 | 0.23 | 1.05 | 4.54 | 110.35 |
| 174 | 11.10 | 79.45 | 0.23 | 1.05 | 4.87 | 110.48 |
| 175 | 11.15 | 83.40 | 0.25 | 1.05 | 4.71 | 110.88 |
| 176 | 11.19 | 85.53 | 0.26 | 1.05 | 4.61 | 111.40 |
| 177 | 11.24 | 87.25 | 0.28 | 1.05 | 4.59 | 111.90 |
| 178 | 11.29 | 89.47 | 0.30 | 1.05 | 4.51 | 112.30 |
| 179 | 11.34 | 92.21 | 0.31 | 1.05 | 4.40 | 112.73 |
| 180 | 11.40 | 95.14 | 0.33 | 1.05 | 4.33 | 113.17 |
| 181 | 11.47 | 97.27 | 0.35 | 1.05 | 4.32 | 113.59 |
| 182 | 11.53 | 97.98 | 0.36 | 1.05 | 4.38 | 113.88 |
| 183 | 11.58 | 97.87 | 0.36 | 1.05 | 4.42 | 114.06 |
| 184 | 11.65 | 98.78 | 0.37 | 1.05 | 4.46 | 114.22 |
| 185 | 11.72 | 99.39 | 0.38 | 1.05 | 4.50 | 114.36 |
| 186 | 11.77 | 99.29 | 0.38 | 1.05 | 4.57 | 114.43 |
| 187 | 11.82 | 98.28 | 0.38 | 1.05 | 4.67 | 114.45 |
| 188 | 11.88 | 97.47 | 0.38 | 1.15 | 5.03 | 114.87 |
| 189 | 11.97 | 95.95 | 0.45 | 1.05 | 5.00 | 114.84 |
| 190 | 12.02 | 94.84 | 0.38 | 1.05 | 5.00 | 114.75 |
| 191 | 12.06 | 93.42 | 0.38 | 1.05 | 5.00 | 114.18 |
| 192 | 12.11 | 92.31 | 0.37 | 1.05 | 5.00 | 114.03 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 193 | 12.21 | 93.32 | 0.36 | 1.05 | 5.00 | 113.85 |
| 194 | 12.25 | 92.21 | 0.35 | 1.05 | 5.00 | 113.70 |
| 195 | 12.30 | 93.22 | 0.35 | 1.05 | 5.01 | 113.58 |
| 196 | 12.31 | 93.52 | 0.35 | 1.05 | 4.95 | 113.56 |
| 197 | 12.32 | 93.52 | 0.35 | 1.05 | 4.93 | 113.57 |
| 198 | 12.35 | 93.83 | 0.35 | 1.05 | 4.77 | 113.38 |
| 199 | 12.40 | 95.24 | 0.32 | 1.05 | 4.60 | 113.25 |
| 200 | 12.45 | 96.66 | 0.32 | 1.15 | 4.38 | 113.11 |
| 201 | 12.52 | 98.38 | 0.32 | 1.05 | 4.29 | 113.28 |
| 202 | 12.56 | 100.20 | 0.33 | 1.05 | 4.25 | 113.61 |
| 203 | 12.62 | 102.33 | 0.36 | 1.05 | 4.25 | 113.99 |
| 204 | 12.65 | 103.54 | 0.37 | 1.05 | 3.77 | 113.26 |
| 205 | 12.71 | 105.16 | 0.23 | 1.15 | 3.23 | 112.19 |
| 206 | 12.76 | 106.68 | 0.23 | 1.15 | 2.62 | 110.90 |
| 207 | 12.83 | 110.12 | 0.23 | 1.15 | 2.60 | 111.55 |
| 208 | 12.88 | 114.17 | 0.28 | 1.15 | 2.77 | 112.94 |
| 209 | 12.93 | 118.52 | 0.37 | 1.15 | 2.90 | 114.26 |
| 210 | 12.98 | 124.09 | 0.40 | 1.15 | 3.08 | 115.17 |
| 211 | 13.03 | 121.66 | 0.41 | 1.15 | 3.06 | 115.51 |
| 212 | 13.04 | 125.50 | 0.42 | 1.15 | 3.47 | 115.78 |
| 213 | 13.07 | 113.26 | 0.46 | 1.05 | 3.50 | 116.29 |
| 214 | 13.13 | 129.35 | 0.50 | 1.05 | 3.58 | 116.95 |
| 215 | 13.17 | 134.31 | 0.54 | 1.05 | 3.26 | 117.70 |
| 216 | 13.22 | 139.37 | 0.58 | 1.05 | 3.29 | 118.28 |
| 217 | 13.27 | 139.88 | 0.62 | 1.05 | 3.36 | 118.74 |
| 218 | 13.32 | 141.09 | 0.64 | 1.05 | 3.46 | 119.07 |
| 219 | 13.37 | 142.31 | 0.66 | 1.05 | 3.56 | 119.26 |
| 220 | 13.41 | 140.38 | 0.67 | 1.05 | 3.64 | 119.30 |
| 221 | 13.46 | 139.27 | 0.66 | 1.05 | 3.75 | 119.26 |
| 222 | 13.51 | 137.45 | 0.66 | 1.15 | 3.85 | 119.23 |
| 223 | 13.56 | 136.13 | 0.66 | 1.15 | 4.04 | 119.31 |
| 224 | 13.60 | 134.31 | 0.69 | 1.05 | 4.26 | 119.44 |
| 225 | 13.66 | 132.39 | 0.70 | 1.05 | 4.38 | 119.40 |
| 226 | 13.75 | 131.68 | 0.66 | 1.05 | 4.42 | 119.28 |
| 227 | 13.80 | 131.27 | 0.66 | 1.05 | 4.39 | 119.11 |
| 228 | 13.89 | 130.57 | 0.66 | 1.05 | 4.46 | 119.13 |
| 229 | 13.94 | 130.36 | 0.67 | 1.05 | 4.60 | 119.22 |
| 230 | 13.99 | 128.44 | 0.69 | 1.15 | 4.88 | 119.41 |
| 231 | 14.09 | 125.71 | 0.72 | 1.15 | 5.27 | 119.59 |
| 232 | 14.14 | 121.96 | 0.73 | 1.15 | 5.70 | 119.79 |
| 233 | 14.23 | 119.13 | 0.76 | 1.15 | 6.08 | 119.87 |
| 234 | 14.28 | 117.00 | 0.76 | 1.15 | 5.80 | 119.04 |
| 235 | 14.38 | 115.38 | 0.51 | 1.15 | 5.31 | 118.06 |
| 236 | 14.42 | 116.85 | 0.51 | 1.15 | 4.82 | 116.96 |
| 237 | 14.52 | 113.76 | 0.52 | 1.15 | 4.88 | 117.10 |
| 238 | 14.57 | 116.70 | 0.53 | 1.15 | 4.95 | 117.39 |
| 239 | 14.67 | 119.74 | 0.57 | 1.15 | 5.03 | 117.62 |
| 240 | 14.68 | 116.09 | 0.57 | 1.15 | 5.00 | 117.81 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 241 | 14.70 | 117.61 | 0.58 | 1.15 | 5.00 | 117.84 |
| 242 | 14.75 | 115.48 | 0.58 | 1.15 | 5.31 | 117.93 |
| 243 | 14.80 | 116.60 | 0.59 | 1.15 | 5.43 | 118.05 |
| 244 | 14.89 | 116.40 | 0.61 | 1.05 | 5.52 | 118.17 |
| 245 | 14.94 | 115.59 | 0.61 | 1.05 | 5.70 | 118.20 |
| 246 | 15.04 | 112.25 | 0.60 | 1.05 | 5.96 | 118.05 |
| 247 | 15.13 | 107.59 | 0.59 | 1.05 | 6.34 | 117.77 |
| 248 | 15.21 | 101.82 | 0.57 | 1.05 | 6.81 | 117.40 |
| 249 | 15.28 | 95.75 | 0.55 | 1.05 | 7.34 | 116.95 |
| 250 | 15.38 | 89.98 | 0.52 | 1.05 | 7.88 | 116.40 |
| 251 | 15.47 | 84.21 | 0.48 | 1.05 | 8.48 | 115.75 |
| 252 | 15.57 | 77.33 | 0.45 | 1.05 | 9.19 | 115.05 |
| 253 | 15.67 | 71.05 | 0.42 | 1.05 | 10.08 | 114.27 |
| 254 | 15.77 | 63.87 | 0.38 | 0.96 | 11.15 | 113.43 |
| 255 | 15.86 | 56.78 | 0.35 | 0.96 | 12.43 | 112.60 |
| 256 | 15.96 | 51.11 | 0.33 | 0.96 | 13.84 | 112.03 |
| 257 | 16.05 | 47.27 | 0.34 | 0.96 | 15.41 | 111.80 |
| 258 | 16.15 | 43.52 | 0.35 | 0.96 | 17.50 | 112.16 |
| 259 | 16.25 | 39.98 | 0.42 | 0.96 | 19.14 | 112.43 |
| 260 | 16.31 | 39.78 | 0.40 | 0.96 | 20.17 | 112.68 |
| 261 | 16.39 | 39.78 | 0.40 | 0.96 | 20.08 | 112.48 |
| 262 | 16.48 | 39.57 | 0.38 | 0.96 | 19.41 | 112.23 |
| 263 | 16.59 | 42.10 | 0.35 | 0.96 | 17.84 | 112.02 |
| 264 | 16.68 | 47.47 | 0.35 | 0.96 | 15.50 | 111.89 |
| 265 | 16.76 | 54.25 | 0.33 | 0.96 | 13.16 | 111.73 |
| 266 | 16.86 | 59.92 | 0.29 | 0.96 | 11.62 | 111.63 |
| 267 | 16.92 | 61.94 | 0.31 | 0.96 | 10.95 | 111.65 |
| 268 | 17.02 | 61.84 | 0.32 | 0.96 | 10.86 | 111.63 |
| 269 | 17.11 | 61.13 | 0.29 | 0.96 | 11.26 | 111.95 |
| 270 | 17.22 | 60.42 | 0.35 | 0.96 | 11.88 | 112.47 |
| 271 | 17.35 | 59.61 | 0.39 | 0.96 | 14.04 | 114.30 |
| 272 | 17.45 | 55.47 | 0.60 | 0.96 | 18.38 | 116.52 |
| 273 | 17.55 | 44.33 | 0.88 | 0.96 | 25.48 | 117.93 |
| 274 | 17.61 | 30.36 | 0.95 | 0.96 | 33.75 | 118.25 |
| 275 | 17.64 | 27.02 | 0.93 | 0.76 | 40.43 | 117.69 |
| 276 | 17.70 | 24.80 | 0.87 | 0.76 | 43.23 | 117.15 |
| 277 | 17.75 | 22.67 | 0.84 | 0.76 | 45.31 | 116.73 |
| 278 | 17.80 | 21.86 | 0.84 | 0.76 | 46.98 | 116.55 |
| 279 | 17.85 | 21.56 | 0.84 | 0.86 | 48.89 | 116.96 |
| 280 | 17.94 | 21.26 | 1.00 | 0.86 | 45.90 | 117.91 |
| 281 | 17.99 | 30.26 | 1.09 | 0.86 | 40.69 | 119.19 |
| 282 | 18.09 | 37.65 | 1.19 | 0.86 | 35.41 | 120.26 |
| 283 | 18.15 | 41.30 | 1.27 | 0.76 | 34.54 | 120.72 |
| 284 | 18.23 | 36.03 | 1.26 | 0.76 | 36.66 | 120.67 |
| 285 | 18.33 | 30.87 | 1.23 | 0.76 | 46.11 | 119.75 |
| 286 | 18.43 | 14.17 | 1.16 | 0.76 | 59.31 | 117.89 |
| 287 | 18.52 | 10.22 | 0.82 | 0.76 | 78.74 | 114.99 |
| 288 | 18.59 | 9.41 | 0.56 | 0.76 | 81.21 | 111.71 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 289 | 18.72 | 8.10 | 0.35 | 0.76 | 78.82 | 108.87 |
| 290 | 18.81 | 7.79 | 0.30 | 0.76 | 77.80 | 106.89 |
| 291 | 18.87 | 7.69 | 0.30 | 0.76 | 78.37 | 106.65 |
| 292 | 18.95 | 7.69 | 0.32 | 0.86 | 79.72 | 107.66 |
| 293 | 19.05 | 8.40 | 0.43 | 0.86 | 76.48 | 109.13 |
| 294 | 19.14 | 10.73 | 0.48 | 0.86 | 66.73 | 110.57 |
| 295 | 19.22 | 14.78 | 0.48 | 0.86 | 53.52 | 111.65 |
| 296 | 19.29 | 20.75 | 0.49 | 0.86 | 39.10 | 113.06 |
| 297 | 19.38 | 34.31 | 0.56 | 0.86 | 26.85 | 114.86 |
| 298 | 19.44 | 55.26 | 0.63 | 0.86 | 19.18 | 117.03 |
| 299 | 19.53 | 74.70 | 0.80 | 0.86 | 14.77 | 118.92 |
| 300 | 19.62 | 90.89 | 0.91 | 0.86 | 12.57 | 120.49 |
| 301 | 19.69 | 102.43 | 1.00 | 0.76 | 11.54 | 121.67 |
| 302 | 19.79 | 108.50 | 1.15 | 0.76 | 11.36 | 122.57 |
| 303 | 19.86 | 109.41 | 1.24 | 0.76 | 11.84 | 123.28 |
| 304 | 19.97 | 106.58 | 1.33 | 0.76 | 12.61 | 123.60 |
| 305 | 20.07 | 101.72 | 1.35 | 0.76 | 13.52 | 123.57 |
| 306 | 20.16 | 94.94 | 1.29 | 0.76 | 14.68 | 123.29 |
| 307 | 20.26 | 85.73 | 1.27 | 0.76 | 14.95 | 121.49 |
| 308 | 20.34 | 72.77 | 0.61 | 0.67 | 15.95 | 119.48 |
| 309 | 20.43 | 59.51 | 0.65 | 0.67 | 17.67 | 117.13 |
| 310 | 20.50 | 47.17 | 0.70 | 0.67 | 23.52 | 117.36 |
| 311 | 20.60 | 37.15 | 0.83 | 0.67 | 30.86 | 117.42 |
| 312 | 20.62 | 28.74 | 0.85 | 0.67 | 38.22 | 117.36 |
| 313 | 20.63 | 25.51 | 0.86 | 0.57 | 41.38 | 117.35 |
| 314 | 20.68 | 29.96 | 0.89 | 0.57 | 42.41 | 117.60 |
| 315 | 20.73 | 27.73 | 0.95 | 0.57 | 43.48 | 118.01 |
| 316 | 20.82 | 25.20 | 1.01 | 0.57 | 47.06 | 118.03 |
| 317 | 20.87 | 23.48 | 0.98 | 0.57 | 50.17 | 117.77 |
| 318 | 20.91 | 21.66 | 0.93 | 0.57 | 52.49 | 117.09 |
| 319 | 20.96 | 19.53 | 0.83 | 0.67 | 55.24 | 116.20 |
| 320 | 21.05 | 17.51 | 0.75 | 0.67 | 58.65 | 115.41 |
| 321 | 21.11 | 15.69 | 0.75 | 0.67 | 59.61 | 115.06 |
| 322 | 21.17 | 17.71 | 0.75 | 0.67 | 59.41 | 115.10 |
| 323 | 21.25 | 17.91 | 0.76 | 0.67 | 50.49 | 115.80 |
| 324 | 21.30 | 28.04 | 0.80 | 0.67 | 37.44 | 117.17 |
| 325 | 21.37 | 47.77 | 0.89 | 0.67 | 25.95 | 118.97 |
| 326 | 21.45 | 69.84 | 1.01 | 0.76 | 19.10 | 120.73 |
| 327 | 21.49 | 88.87 | 1.16 | 0.76 | 15.54 | 122.37 |
| 328 | 21.58 | 104.65 | 1.36 | 0.76 | 13.61 | 123.67 |
| 329 | 21.64 | 116.80 | 1.47 | 0.76 | 12.50 | 124.67 |
| 330 | 21.69 | 125.61 | 1.57 | 0.76 | 11.91 | 125.41 |
| 331 | 21.78 | 131.07 | 1.71 | 0.76 | 11.69 | 126.01 |
| 332 | 21.83 | 134.51 | 1.80 | 0.76 | 11.79 | 126.54 |
| 333 | 21.89 | 135.73 | 1.90 | 0.76 | 12.04 | 126.96 |
| 334 | 21.98 | 136.03 | 2.02 | 0.76 | 12.40 | 127.34 |
| 335 | 22.03 | 136.23 | 2.09 | 0.76 | 12.75 | 127.63 |
| 336 | 22.12 | 135.42 | 2.15 | 0.76 | 13.09 | 127.77 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 337 | 22.22 | 132.99 | 2.16 | 0.76 | 13.41 | 127.81 |
| 338 | 22.26 | 131.17 | 2.15 | 0.76 | 13.69 | 127.73 |
| 339 | 22.36 | 128.44 | 2.12 | 0.76 | 13.97 | 127.61 |
| 340 | 22.41 | 125.51 | 2.10 | 0.76 | 14.35 | 127.56 |
| 341 | 22.51 | 123.38 | 2.14 | 0.76 | 14.15 | 127.06 |
| 342 | 22.60 | 121.66 | 1.74 | 0.76 | 13.83 | 126.45 |
| 343 | 22.70 | 118.93 | 1.65 | 0.76 | 13.30 | 125.68 |
| 344 | 22.75 | 117.41 | 1.61 | 0.76 | 13.43 | 125.41 |
| 345 | 22.84 | 114.27 | 1.59 | 0.76 | 14.48 | 125.10 |
| 346 | 22.89 | 96.25 | 1.56 | 0.76 | 14.75 | 124.96 |
| 347 | 22.90 | 110.88 | 1.55 | 0.76 | 15.01 | 124.78 |
| 348 | 22.94 | 107.49 | 1.51 | 0.76 | 13.97 | 124.76 |
| 349 | 23.00 | 111.94 | 1.47 | 0.76 | 13.47 | 124.67 |
| 350 | 23.08 | 117.61 | 1.47 | 0.86 | 12.40 | 124.71 |
| 351 | 23.13 | 127.23 | 1.45 | 0.86 | 11.31 | 124.84 |
| 352 | 23.20 | 136.23 | 1.45 | 0.86 | 10.47 | 124.96 |
| 353 | 23.27 | 138.66 | 1.46 | 0.86 | 10.12 | 124.97 |
| 354 | 23.33 | 136.23 | 1.43 | 0.76 | 10.11 | 124.75 |
| 355 | 23.42 | 131.78 | 1.34 | 0.86 | 10.24 | 124.32 |
| 356 | 23.48 | 126.62 | 1.25 | 0.76 | 10.39 | 123.80 |
| 357 | 23.57 | 122.37 | 1.20 | 0.86 | 10.62 | 123.46 |
| 358 | 23.61 | 120.44 | 1.20 | 0.86 | 10.81 | 123.34 |
| 359 | 23.66 | 120.75 | 1.21 | 0.86 | 10.87 | 123.44 |
| 360 | 23.73 | 123.28 | 1.25 | 0.86 | 10.80 | 123.73 |
| 361 | 23.80 | 128.04 | 1.32 | 0.86 | 10.61 | 124.10 |
| 362 | 23.85 | 132.49 | 1.37 | 0.86 | 10.45 | 124.49 |
| 363 | 23.94 | 135.32 | 1.42 | 0.86 | 10.34 | 124.75 |
| 364 | 24.00 | 136.54 | 1.44 | 0.86 | 10.35 | 124.89 |
| 365 | 24.09 | 135.73 | 1.44 | 0.86 | 10.44 | 124.90 |
| 366 | 24.16 | 133.80 | 1.43 | 0.86 | 10.68 | 124.85 |
| 367 | 24.24 | 130.46 | 1.43 | 0.86 | 10.08 | 123.73 |
| 368 | 24.33 | 125.81 | 0.86 | 0.86 | 9.54 | 122.48 |
| 369 | 24.43 | 121.05 | 0.88 | 0.86 | 8.99 | 121.06 |
| 370 | 24.52 | 116.40 | 0.91 | 0.86 | 9.98 | 121.07 |
| 371 | 24.58 | 105.36 | 0.92 | 0.86 | 10.82 | 121.05 |
| 372 | 24.59 | 104.91 | 0.92 | 0.86 | 11.52 | 121.00 |
| 373 | 24.63 | 103.24 | 0.93 | 0.76 | 11.65 | 121.07 |
| 374 | 24.68 | 104.45 | 0.95 | 0.76 | 11.99 | 121.27 |
| 375 | 24.77 | 102.63 | 1.00 | 0.76 | 12.42 | 121.51 |
| 376 | 24.82 | 100.30 | 1.03 | 0.76 | 13.12 | 121.77 |
| 377 | 24.92 | 97.98 | 1.08 | 0.76 | 13.83 | 121.94 |
| 378 | 25.01 | 95.24 | 1.10 | 0.76 | 14.55 | 122.06 |
| 379 | 25.06 | 92.41 | 1.11 | 0.76 | 15.23 | 122.08 |
| 380 | 25.16 | 89.47 | 1.12 | 0.76 | 15.90 | 122.02 |
| 381 | 25.25 | 86.54 | 1.11 | 0.76 | 16.59 | 121.94 |
| 382 | 25.30 | 83.50 | 1.11 | 0.76 | 17.28 | 121.83 |
| 383 | 25.41 | 80.57 | 1.11 | 0.76 | 18.09 | 121.73 |
| 384 | 25.49 | 77.23 | 1.11 | 0.76 | 18.98 | 121.65 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 385 | 25.55 | 73.99 | 1.11 | 0.76 | 20.07 | 121.62 |
| 386 | 25.64 | 70.65 | 1.15 | 0.76 | 21.32 | 121.62 |
| 387 | 25.70 | 67.11 | 1.16 | 0.76 | 22.79 | 121.64 |
| 388 | 25.79 | 63.26 | 1.19 | 0.76 | 24.37 | 121.58 |
| 389 | 25.89 | 59.31 | 1.18 | 0.76 | 26.26 | 121.42 |
| 390 | 25.94 | 54.15 | 1.17 | 0.76 | 28.33 | 121.11 |
| 391 | 26.02 | 49.29 | 1.13 | 0.76 | 30.48 | 120.54 |
| 392 | 26.12 | 44.64 | 1.03 | 0.76 | 32.30 | 119.79 |
| 393 | 26.17 | 41.19 | 0.94 | 0.67 | 34.00 | 118.80 |
| 394 | 26.28 | 36.64 | 0.83 | 0.67 | 35.82 | 117.81 |
| 395 | 26.36 | 33.20 | 0.76 | 0.67 | 37.65 | 116.64 |
| 396 | 26.45 | 30.06 | 0.64 | 0.67 | 40.39 | 115.51 |
| 397 | 26.50 | 25.00 | 0.59 | 0.67 | 44.96 | 114.33 |
| 398 | 26.61 | 19.74 | 0.56 | 0.67 | 52.70 | 113.36 |
| 399 | 26.70 | 15.69 | 0.53 | 0.67 | 63.56 | 112.54 |
| 400 | 26.77 | 12.45 | 0.54 | 0.67 | 73.76 | 111.85 |
| 401 | 26.85 | 10.73 | 0.52 | 0.67 | 77.64 | 111.21 |
| 402 | 26.94 | 12.35 | 0.44 | 0.67 | 78.19 | 110.57 |
| 403 | 27.04 | 11.23 | 0.43 | 0.67 | 74.40 | 110.13 |
| 404 | 27.14 | 12.25 | 0.42 | 0.67 | 72.81 | 110.00 |
| 405 | 27.23 | 13.16 | 0.41 | 0.76 | 69.26 | 109.81 |
| 406 | 27.28 | 13.26 | 0.38 | 0.76 | 67.37 | 109.59 |
| 407 | 27.29 | 13.21 | 0.37 | 0.76 | 64.60 | 108.54 |
| 408 | 27.38 | 13.36 | 0.25 | 0.76 | 63.04 | 107.81 |
| 409 | 27.48 | 13.26 | 0.28 | 0.76 | 62.75 | 107.60 |
| 410 | 27.57 | 13.16 | 0.35 | 0.76 | 65.67 | 108.83 |
| 411 | 27.64 | 13.36 | 0.41 | 0.76 | 68.02 | 109.83 |
| 412 | 27.65 | 13.36 | 0.43 | 0.67 | 70.74 | 111.13 |
| 413 | 27.74 | 13.56 | 0.57 | 0.67 | 69.81 | 112.46 |
| 414 | 27.80 | 16.60 | 0.65 | 0.67 | 65.76 | 114.19 |
| 415 | 27.90 | 20.55 | 0.77 | 0.67 | 61.65 | 115.18 |
| 416 | 27.99 | 20.34 | 0.77 | 0.67 | 61.92 | 115.44 |
| 417 | 28.07 | 17.11 | 0.72 | 0.67 | 66.57 | 114.64 |
| 418 | 28.16 | 13.87 | 0.62 | 0.67 | 72.64 | 113.23 |
| 419 | 28.25 | 12.35 | 0.50 | 0.67 | 76.77 | 111.52 |
| 420 | 28.34 | 11.34 | 0.41 | 0.67 | 77.68 | 109.88 |
| 421 | 28.44 | 10.83 | 0.35 | 0.67 | 77.85 | 108.83 |
| 422 | 28.53 | 10.83 | 0.35 | 0.67 | 78.14 | 108.53 |
| 423 | 28.62 | 10.83 | 0.37 | 0.67 | 77.38 | 110.10 |
| 424 | 28.76 | 13.56 | 0.57 | 0.67 | 72.35 | 112.51 |
| 425 | 28.86 | 18.22 | 0.74 | 0.76 | 67.30 | 115.27 |
| 426 | 28.96 | 21.15 | 0.97 | 0.76 | 65.09 | 117.31 |
| 427 | 29.08 | 21.56 | 1.17 | 0.76 | 67.25 | 119.00 |
| 428 | 29.19 | 21.15 | 1.43 | 0.76 | 69.03 | 120.29 |
| 429 | 29.29 | 23.48 | 1.60 | 0.76 | 57.91 | 120.47 |
| 430 | 29.39 | 37.85 | 0.97 | 0.76 | 42.67 | 122.13 |
| 431 | 29.50 | 60.73 | 1.83 | 0.76 | 33.13 | 124.03 |
| 432 | 29.63 | 74.39 | 2.28 | 0.76 | 32.04 | 126.13 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 433 | 29.65 | 65.49 | 2.34 | 0.76 | 31.66 | 126.80 |
| 434 | 29.66 | 70.75 | 2.34 | 0.76 | 31.48 | 126.90 |
| 435 | 29.72 | 76.72 | 2.35 | 0.76 | 30.48 | 126.99 |
| 436 | 29.80 | 73.08 | 2.34 | 0.76 | 28.82 | 127.09 |
| 437 | 29.85 | 83.60 | 2.30 | 0.96 | 24.74 | 127.25 |
| 438 | 29.94 | 111.74 | 2.18 | 1.05 | 19.12 | 127.53 |
| 439 | 30.00 | 139.37 | 2.11 | 0.96 | 14.70 | 127.66 |
| 440 | 30.05 | 155.36 | 1.99 | 0.96 | 11.90 | 127.40 |
| 441 | 30.14 | 164.17 | 1.72 | 0.86 | 10.16 | 126.80 |
| 442 | 30.19 | 168.22 | 1.55 | 0.86 | 9.10 | 126.23 |
| 443 | 30.24 | 170.24 | 1.55 | 0.86 | 8.70 | 126.01 |
| 444 | 30.29 | 170.34 | 1.56 | 0.86 | 8.77 | 126.09 |
| 445 | 30.38 | 168.42 | 1.60 | 0.96 | 9.02 | 126.13 |
| 446 | 30.43 | 164.37 | 1.60 | 0.96 | 9.33 | 126.13 |
| 447 | 30.48 | 161.54 | 1.59 | 0.96 | 9.59 | 126.05 |
| 448 | 30.54 | 158.91 | 1.58 | 0.96 | 9.78 | 125.95 |
| 449 | 30.62 | 156.98 | 1.55 | 0.96 | 9.79 | 125.86 |
| 450 | 30.67 | 159.11 | 1.54 | 0.96 | 9.79 | 125.78 |
| 451 | 30.72 | 157.18 | 1.54 | 0.96 | 9.69 | 125.76 |
| 452 | 30.76 | 159.31 | 1.53 | 0.96 | 9.55 | 125.70 |
| 453 | 30.86 | 161.84 | 1.49 | 0.96 | 9.23 | 125.64 |
| 454 | 30.91 | 164.98 | 1.48 | 0.96 | 8.91 | 125.62 |
| 455 | 30.95 | 168.42 | 1.49 | 0.96 | 8.55 | 125.64 |
| 456 | 31.03 | 173.38 | 1.47 | 0.96 | 8.12 | 125.67 |
| 457 | 31.10 | 179.65 | 1.45 | 1.05 | 7.69 | 125.73 |
| 458 | 31.15 | 185.02 | 1.48 | 1.05 | 7.34 | 125.89 |
| 459 | 31.20 | 190.38 | 1.52 | 1.05 | 7.18 | 126.13 |
| 460 | 31.26 | 193.52 | 1.57 | 1.05 | 7.15 | 126.36 |
| 461 | 31.34 | 193.62 | 1.60 | 1.05 | 7.71 | 126.40 |
| 462 | 31.37 | 171.46 | 1.60 | 1.05 | 7.87 | 126.43 |
| 463 | 31.38 | 188.76 | 1.60 | 1.15 | 8.09 | 126.36 |
| 464 | 31.43 | 183.91 | 1.58 | 1.15 | 7.77 | 126.31 |
| 465 | 31.47 | 181.17 | 1.53 | 1.15 | 8.03 | 126.07 |
| 466 | 31.55 | 172.87 | 1.49 | 1.15 | 8.51 | 125.78 |
| 467 | 31.59 | 160.83 | 1.47 | 1.15 | 9.39 | 125.48 |
| 468 | 31.66 | 147.27 | 1.45 | 1.15 | 10.59 | 125.21 |
| 469 | 31.73 | 135.12 | 1.45 | 1.05 | 12.03 | 125.03 |
| 470 | 31.78 | 124.80 | 1.48 | 1.05 | 13.62 | 124.95 |
| 471 | 31.84 | 115.28 | 1.53 | 1.05 | 15.49 | 125.08 |
| 472 | 31.93 | 106.78 | 1.65 | 1.05 | 17.52 | 125.26 |
| 473 | 31.98 | 99.59 | 1.73 | 1.15 | 19.53 | 125.52 |
| 474 | 32.02 | 94.84 | 1.82 | 1.15 | 20.69 | 125.90 |
| 475 | 32.09 | 100.05 | 1.96 | 1.15 | 21.58 | 126.26 |
| 476 | 32.16 | 96.05 | 2.03 | 1.15 | 21.57 | 126.59 |
| 477 | 32.22 | 100.51 | 2.04 | 1.15 | 21.42 | 126.73 |
| 478 | 32.27 | 104.25 | 2.05 | 1.15 | 20.75 | 126.84 |
| 479 | 32.34 | 105.67 | 2.06 | 1.24 | 20.20 | 126.90 |
| 480 | 32.42 | 108.10 | 2.04 | 1.24 | 19.56 | 126.93 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 481 | 32.46 | 112.85 | 2.02 | 1.24 | 18.55 | 126.88 |
| 482 | 32.54 | 118.12 | 1.95 | 1.24 | 17.41 | 126.77 |
| 483 | 32.60 | 122.16 | 1.87 | 1.24 | 16.07 | 126.34 |
| 484 | 32.67 | 124.90 | 1.62 | 1.24 | 15.05 | 125.97 |
| 485 | 32.75 | 127.33 | 1.63 | 1.24 | 14.32 | 125.74 |
| 486 | 32.81 | 130.26 | 1.68 | 1.24 | 14.20 | 126.03 |
| 487 | 32.89 | 133.50 | 1.79 | 1.24 | 14.12 | 126.37 |
| 488 | 32.94 | 136.34 | 1.83 | 1.24 | 14.96 | 126.52 |
| 489 | 32.95 | 118.52 | 1.84 | 1.24 | 14.91 | 126.69 |
| 490 | 33.00 | 138.16 | 1.90 | 1.24 | 14.89 | 126.92 |
| 491 | 33.06 | 141.90 | 1.98 | 1.24 | 14.05 | 127.30 |
| 492 | 33.11 | 143.12 | 2.03 | 1.24 | 14.18 | 127.55 |
| 493 | 33.20 | 141.70 | 2.09 | 1.24 | 14.56 | 127.71 |
| 494 | 33.25 | 138.76 | 2.13 | 1.24 | 15.10 | 127.86 |
| 495 | 33.34 | 136.54 | 2.19 | 1.24 | 15.55 | 127.94 |
| 496 | 33.38 | 135.73 | 2.19 | 1.24 | 15.74 | 128.03 |
| 497 | 33.48 | 137.75 | 2.22 | 1.24 | 15.68 | 128.19 |
| 498 | 33.58 | 141.70 | 2.30 | 1.24 | 15.42 | 128.42 |
| 499 | 33.63 | 146.25 | 2.34 | 1.24 | 15.06 | 128.72 |
| 500 | 33.73 | 152.23 | 2.43 | 1.24 | 14.62 | 129.02 |
| 501 | 33.82 | 158.70 | 2.51 | 1.24 | 14.13 | 129.36 |
| 502 | 33.87 | 165.89 | 2.57 | 1.24 | 13.67 | 129.70 |
| 503 | 33.96 | 172.57 | 2.69 | 1.24 | 13.23 | 130.04 |
| 504 | 34.02 | 179.65 | 2.77 | 1.24 | 12.84 | 130.48 |
| 505 | 34.11 | 189.47 | 2.95 | 1.24 | 12.43 | 131.00 |
| 506 | 34.18 | 200.91 | 3.15 | 1.24 | 12.08 | 131.61 |
| 507 | 34.26 | 211.03 | 3.36 | 1.24 | 11.89 | 132.25 |
| 508 | 34.35 | 219.33 | 3.65 | 1.24 | 11.82 | 132.88 |
| 509 | 34.44 | 227.93 | 3.92 | 1.34 | 11.72 | 133.37 |
| 510 | 34.49 | 235.22 | 3.98 | 1.34 | 11.56 | 133.69 |
| 511 | 34.59 | 238.66 | 4.05 | 1.34 | 11.45 | 133.86 |
| 512 | 34.69 | 239.88 | 4.13 | 1.34 | 11.44 | 133.98 |
| 513 | 34.76 | 241.39 | 4.15 | 1.34 | 11.40 | 134.01 |
| 514 | 34.83 | 241.50 | 4.07 | 1.43 | 11.43 | 134.00 |
| 515 | 34.93 | 238.86 | 4.12 | 1.43 | 11.44 | 133.81 |
| 516 | 35.02 | 233.50 | 3.89 | 1.43 | 11.54 | 133.60 |
| 517 | 35.12 | 229.05 | 3.79 | 1.43 | 11.46 | 133.22 |
| 518 | 35.22 | 226.72 | 3.60 | 1.43 | 11.42 | 132.94 |
| 519 | 35.30 | 223.58 | 3.51 | 1.43 | 11.44 | 132.63 |
| 520 | 35.38 | 216.29 | 3.41 | 1.43 | 12.34 | 132.31 |
| 521 | 35.43 | 185.73 | 3.36 | 1.43 | 13.07 | 132.03 |
| 522 | 35.46 | 192.21 | 3.30 | 1.53 | 13.71 | 131.78 |
| 523 | 35.51 | 190.18 | 3.21 | 1.62 | 13.68 | 131.56 |
| 524 | 35.56 | 179.15 | 3.11 | 1.62 | 14.30 | 131.05 |
| 525 | 35.66 | 160.93 | 2.83 | 1.53 | 15.30 | 130.47 |
| 526 | 35.70 | 150.40 | 2.73 | 1.53 | 16.62 | 129.73 |
| 527 | 35.80 | 133.20 | 2.53 | 1.53 | 18.63 | 129.08 |
| 528 | 35.89 | 111.94 | 2.45 | 1.53 | 21.97 | 128.26 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 529 | 35.96 | 88.76 | 2.31 | 1.53 | 26.84 | 127.15 |
| 530 | 36.04 | 66.50 | 1.99 | 1.43 | 32.56 | 125.33 |
| 531 | 36.14 | 49.39 | 1.45 | 1.43 | 38.50 | 123.16 |
| 532 | 36.19 | 40.49 | 1.23 | 1.43 | 42.06 | 121.28 |
| 533 | 36.28 | 40.49 | 1.16 | 1.43 | 44.05 | 120.76 |
| 534 | 36.33 | 40.49 | 1.27 | 1.43 | 43.63 | 120.56 |
| 535 | 36.42 | 40.49 | 1.14 | 1.43 | 42.36 | 120.82 |
| 536 | 36.48 | 45.85 | 1.23 | 1.43 | 39.85 | 121.28 |
| 537 | 36.52 | 51.52 | 1.40 | 1.43 | 38.41 | 122.62 |
| 538 | 36.62 | 55.67 | 1.74 | 1.43 | 38.39 | 123.71 |
| 539 | 36.68 | 55.06 | 1.84 | 1.43 | 39.88 | 124.37 |
| 540 | 36.77 | 51.42 | 1.88 | 1.43 | 40.89 | 124.37 |
| 541 | 36.86 | 51.92 | 1.78 | 1.43 | 39.71 | 124.46 |
| 542 | 36.90 | 60.53 | 1.84 | 1.53 | 32.23 | 124.83 |
| 543 | 37.00 | 90.49 | 1.76 | 1.53 | 21.98 | 125.79 |
| 544 | 37.10 | 143.32 | 1.82 | 1.62 | 14.18 | 126.63 |
| 545 | 37.20 | 187.14 | 1.82 | 1.53 | 9.48 | 127.07 |
| 546 | 37.29 | 217.10 | 1.62 | 1.53 | 7.15 | 127.31 |
| 547 | 37.39 | 234.82 | 1.72 | 1.53 | 6.16 | 127.69 |
| 548 | 37.49 | 245.04 | 1.93 | 1.53 | 6.15 | 128.39 |
| 549 | 37.53 | 245.80 | 2.08 | 1.53 | 6.43 | 129.01 |
| 550 | 37.58 | 245.80 | 2.19 | 1.43 | 6.79 | 129.47 |
| 551 | 37.62 | 246.56 | 2.33 | 1.43 | 7.05 | 129.90 |
| 552 | 37.69 | 251.11 | 2.46 | 1.43 | 7.41 | 130.49 |
| 553 | 37.77 | 253.95 | 2.76 | 1.43 | 7.74 | 131.04 |
| 554 | 37.82 | 255.46 | 2.89 | 1.34 | 8.12 | 131.53 |
| 555 | 37.87 | 255.46 | 3.00 | 1.34 | 8.40 | 131.80 |
| 556 | 37.91 | 253.54 | 3.09 | 1.34 | 8.73 | 131.98 |
| 557 | 37.97 | 249.09 | 3.14 | 1.34 | 9.14 | 132.07 |
| 558 | 38.06 | 242.00 | 3.17 | 1.43 | 9.58 | 132.05 |
| 559 | 38.10 | 234.61 | 3.14 | 1.34 | 9.96 | 131.95 |
| 560 | 38.17 | 230.06 | 3.08 | 1.34 | 10.09 | 131.72 |
| 561 | 38.25 | 227.93 | 2.95 | 1.34 | 9.95 | 131.37 |
| 562 | 38.35 | 226.21 | 2.75 | 1.34 | 9.74 | 130.98 |
| 563 | 38.40 | 223.18 | 2.65 | 1.34 | 9.59 | 130.66 |
| 564 | 38.46 | 220.85 | 2.61 | 1.34 | 9.55 | 130.46 |
| 565 | 38.54 | 220.85 | 2.57 | 1.34 | 9.50 | 130.34 |
| 566 | 38.60 | 220.85 | 2.53 | 1.34 | 9.36 | 130.20 |
| 567 | 38.69 | 220.85 | 2.46 | 1.34 | 9.14 | 130.07 |
| 568 | 38.74 | 224.90 | 2.42 | 1.34 | 8.84 | 129.97 |
| 569 | 38.83 | 228.95 | 2.40 | 1.34 | 8.66 | 130.01 |
| 570 | 38.88 | 229.65 | 2.47 | 1.34 | 8.43 | 129.87 |
| 571 | 38.97 | 228.95 | 2.27 | 1.43 | 8.33 | 129.71 |
| 572 | 39.02 | 227.63 | 2.26 | 1.43 | 8.17 | 129.42 |
| 573 | 39.11 | 225.10 | 2.21 | 1.43 | 8.23 | 129.25 |
| 574 | 39.16 | 220.54 | 2.14 | 1.43 | 8.40 | 128.95 |
| 575 | 39.23 | 209.82 | 2.04 | 1.43 | 9.12 | 128.58 |
| 576 | 39.24 | 186.03 | 2.02 | 1.43 | 9.26 | 128.31 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 577 | 39.28 | 206.53 | 1.96 | 1.43 | 9.26 | 128.10 |
| 578 | 39.32 | 203.24 | 1.90 | 1.43 | 8.75 | 127.86 |
| 579 | 39.39 | 195.95 | 1.80 | 1.43 | 9.08 | 127.52 |
| 580 | 39.47 | 184.41 | 1.77 | 1.43 | 9.80 | 127.22 |
| 581 | 39.54 | 171.46 | 1.78 | 1.43 | 10.93 | 127.03 |
| 582 | 39.62 | 158.50 | 1.78 | 1.43 | 12.28 | 126.82 |
| 583 | 39.71 | 145.24 | 1.76 | 1.43 | 13.78 | 126.57 |
| 584 | 39.76 | 133.40 | 1.75 | 1.43 | 15.25 | 126.29 |
| 585 | 39.85 | 124.80 | 1.72 | 1.43 | 16.63 | 126.05 |
| 586 | 39.90 | 117.71 | 1.71 | 1.43 | 17.85 | 125.82 |
| 587 | 40.00 | 111.03 | 1.69 | 1.34 | 19.15 | 125.63 |
| 588 | 40.06 | 104.35 | 1.69 | 1.34 | 20.49 | 125.46 |
| 589 | 40.15 | 98.68 | 1.69 | 1.34 | 21.96 | 125.31 |
| 590 | 40.21 | 92.91 | 1.69 | 1.34 | 23.70 | 125.27 |
| 591 | 40.29 | 86.84 | 1.76 | 1.34 | 25.91 | 125.29 |
| 592 | 40.35 | 79.96 | 1.83 | 1.34 | 28.93 | 125.45 |
| 593 | 40.43 | 72.17 | 1.95 | 1.34 | 31.85 | 125.15 |
| 594 | 40.52 | 64.47 | 1.72 | 1.34 | 35.38 | 124.58 |
| 595 | 40.58 | 54.86 | 1.64 | 1.34 | 39.26 | 123.64 |
| 596 | 40.67 | 46.25 | 1.54 | 1.34 | 44.53 | 122.80 |
| 597 | 40.77 | 39.47 | 1.43 | 1.34 | 48.71 | 122.20 |
| 598 | 40.84 | 39.12 | 1.45 | 1.34 | 51.09 | 121.91 |
| 599 | 40.89 | 38.77 | 1.46 | 1.24 | 47.89 | 122.14 |
| 600 | 40.94 | 48.89 | 1.45 | 1.24 | 41.53 | 122.58 |
| 601 | 41.03 | 61.54 | 1.47 | 1.24 | 34.10 | 123.11 |
| 602 | 41.08 | 73.89 | 1.47 | 1.24 | 28.70 | 123.52 |
| 603 | 41.14 | 83.60 | 1.45 | 1.15 | 25.34 | 123.76 |
| 604 | 41.22 | 88.56 | 1.45 | 1.15 | 23.58 | 123.93 |
| 605 | 41.28 | 90.89 | 1.47 | 1.15 | 23.00 | 124.13 |
| 606 | 41.33 | 91.80 | 1.53 | 1.05 | 23.16 | 124.56 |
| 607 | 41.42 | 93.22 | 1.69 | 1.05 | 23.59 | 125.16 |
| 608 | 41.47 | 95.85 | 1.84 | 1.05 | 23.66 | 125.86 |
| 609 | 41.52 | 101.92 | 1.97 | 1.05 | 22.91 | 126.69 |
| 610 | 41.62 | 114.27 | 2.20 | 1.05 | 21.31 | 127.57 |
| 611 | 41.67 | 130.16 | 2.38 | 1.05 | 19.54 | 128.55 |
| 612 | 41.76 | 145.55 | 2.62 | 1.05 | 17.95 | 129.34 |
| 613 | 41.82 | 157.59 | 2.74 | 1.05 | 16.90 | 130.00 |
| 614 | 41.90 | 165.99 | 2.90 | 1.05 | 16.15 | 130.44 |
| 615 | 41.99 | 172.67 | 2.96 | 1.05 | 15.70 | 130.73 |
| 616 | 42.05 | 176.01 | 2.98 | 1.05 | 15.44 | 130.86 |
| 617 | 42.15 | 175.71 | 3.00 | 0.96 | 15.47 | 130.91 |
| 618 | 42.23 | 173.89 | 3.02 | 0.96 | 15.76 | 130.92 |
| 619 | 42.30 | 170.34 | 3.03 | 0.96 | 16.20 | 130.85 |
| 620 | 42.38 | 164.37 | 2.97 | 0.96 | 16.79 | 130.64 |
| 621 | 42.48 | 156.17 | 2.87 | 0.96 | 17.75 | 130.21 |
| 622 | 42.57 | 140.79 | 2.70 | 0.96 | 19.03 | 129.66 |
| 623 | 42.64 | 128.95 | 2.56 | 0.86 | 20.48 | 129.02 |
| 624 | 42.72 | 120.14 | 2.42 | 0.86 | 21.44 | 128.37 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 625 | 42.82 | 114.47 | 2.21 | 0.86 | 22.03 | 127.72 |
| 626 | 42.90 | 109.51 | 2.08 | 0.86 | 22.42 | 127.19 |
| 627 | 42.97 | 106.07 | 2.04 | 0.86 | 23.04 | 126.89 |
| 628 | 43.06 | 102.53 | 2.03 | 0.86 | 23.94 | 126.76 |
| 629 | 43.15 | 98.28 | 2.05 | 0.86 | 24.28 | 126.30 |
| 630 | 43.20 | 95.44 | 1.73 | 0.86 | 23.92 | 125.87 |
| 631 | 43.30 | 99.49 | 1.72 | 0.86 | 21.66 | 125.62 |
| 632 | 43.40 | 117.61 | 1.75 | 0.86 | 18.56 | 126.10 |
| 633 | 43.48 | 142.51 | 1.83 | 0.96 | 16.70 | 126.59 |
| 634 | 43.51 | 137.14 | 1.89 | 0.96 | 15.94 | 126.91 |
| 635 | 43.52 | 137.65 | 1.91 | 0.86 | 15.16 | 127.23 |
| 636 | 43.56 | 163.87 | 1.98 | 0.86 | 13.67 | 127.68 |
| 637 | 43.61 | 178.84 | 2.08 | 0.86 | 11.96 | 128.22 |
| 638 | 43.67 | 193.82 | 2.13 | 0.86 | 10.83 | 128.59 |
| 639 | 43.72 | 206.98 | 2.13 | 0.86 | 9.87 | 128.82 |
| 640 | 43.80 | 217.20 | 2.15 | 0.86 | 9.14 | 128.98 |
| 641 | 43.85 | 225.30 | 2.16 | 0.86 | 8.63 | 129.13 |
| 642 | 43.90 | 231.68 | 2.18 | 0.86 | 8.26 | 129.25 |
| 643 | 43.94 | 236.74 | 2.19 | 0.86 | 7.97 | 129.33 |
| 644 | 43.99 | 240.69 | 2.18 | 0.86 | 7.76 | 129.35 |
| 645 | 44.08 | 242.00 | 2.18 | 0.86 | 7.68 | 129.38 |
| 646 | 44.14 | 241.90 | 2.20 | 0.86 | 7.83 | 129.54 |
| 647 | 44.22 | 240.59 | 2.33 | 0.86 | 8.11 | 129.75 |
| 648 | 44.28 | 238.66 | 2.39 | 0.86 | 8.47 | 129.97 |
| 649 | 44.33 | 235.63 | 2.43 | 0.86 | 8.80 | 130.11 |
| 650 | 44.40 | 232.69 | 2.50 | 0.86 | 9.29 | 130.33 |
| 651 | 44.48 | 228.44 | 2.64 | 0.86 | 9.67 | 130.62 |
| 652 | 44.52 | 232.74 | 2.75 | 0.86 | 10.35 | 131.05 |
| 653 | 44.61 | 224.49 | 3.00 | 0.96 | 10.26 | 131.06 |
| 654 | 44.72 | 232.79 | 2.65 | 0.96 | 10.27 | 131.18 |
| 655 | 44.77 | 237.24 | 2.86 | 0.96 | 9.91 | 131.18 |
| 656 | 44.91 | 238.36 | 2.94 | 1.05 | 10.09 | 131.47 |
| 657 | 44.95 | 237.95 | 2.96 | 1.05 | 10.63 | 131.50 |
| 658 | 45.02 | 218.72 | 2.98 | 1.05 | 10.98 | 131.47 |
| 659 | 45.04 | 225.50 | 2.97 | 1.15 | 13.35 | 131.14 |
| 660 | 45.06 | 152.63 | 2.96 | 1.15 | 12.86 | 131.13 |
| 661 | 45.11 | 232.29 | 2.89 | 1.15 | 12.30 | 131.08 |
| 662 | 45.15 | 240.38 | 2.84 | 1.15 | 9.78 | 131.30 |
| 663 | 45.21 | 247.16 | 2.81 | 1.15 | 9.27 | 131.31 |
| 664 | 45.25 | 253.14 | 2.82 | 1.15 | 8.95 | 131.37 |
| 665 | 45.30 | 256.98 | 2.86 | 1.15 | 8.80 | 131.48 |
| 666 | 45.35 | 258.70 | 2.90 | 1.15 | 8.79 | 131.59 |
| 667 | 45.41 | 258.40 | 2.92 | 1.15 | 8.84 | 131.65 |
| 668 | 45.49 | 258.10 | 2.93 | 1.15 | 8.94 | 131.65 |
| 669 | 45.55 | 254.45 | 2.91 | 1.15 | 9.06 | 131.57 |
| 670 | 45.63 | 249.80 | 2.86 | 1.15 | 9.25 | 131.42 |
| 671 | 45.69 | 244.23 | 2.81 | 1.15 | 9.48 | 131.22 |
| 672 | 45.78 | 236.94 | 2.74 | 1.15 | 9.80 | 131.01 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 673 | 45.84 | 228.64 | 2.69 | 1.15 | 10.17 | 130.69 |
| 674 | 45.93 | 218.52 | 2.57 | 1.15 | 10.59 | 130.25 |
| 675 | 46.02 | 205.87 | 2.39 | 1.15 | 11.15 | 129.68 |
| 676 | 46.08 | 190.89 | 2.26 | 1.15 | 11.83 | 128.94 |
| 677 | 46.16 | 174.39 | 2.03 | 1.15 | 12.80 | 128.17 |
| 678 | 46.24 | 157.89 | 1.90 | 1.15 | 14.14 | 127.35 |
| 679 | 46.31 | 139.07 | 1.81 | 1.15 | 16.32 | 126.66 |
| 680 | 46.41 | 117.21 | 1.75 | 1.05 | 19.70 | 126.05 |
| 681 | 46.48 | 95.75 | 1.74 | 1.05 | 24.72 | 125.44 |
| 682 | 46.56 | 74.29 | 1.72 | 1.05 | 31.32 | 124.66 |
| 683 | 46.65 | 57.08 | 1.60 | 1.05 | 39.23 | 123.40 |
| 684 | 46.75 | 42.81 | 1.33 | 1.05 | 46.43 | 121.67 |
| 685 | 46.84 | 36.34 | 1.06 | 1.05 | 55.36 | 119.83 |
| 686 | 46.94 | 30.67 | 0.95 | 1.05 | 60.33 | 118.19 |
| 687 | 47.02 | 25.20 | 0.82 | 1.15 | 66.74 | 116.92 |
| 688 | 47.08 | 21.46 | 0.75 | 1.15 | 74.89 | 115.79 |
| 689 | 47.12 | 17.41 | 0.72 | 1.15 | 81.21 | 115.04 |
| 690 | 47.16 | 17.36 | 0.69 | 1.05 | 83.23 | 114.56 |
| 691 | 47.21 | 18.72 | 0.65 | 1.05 | 82.03 | 114.08 |
| 692 | 47.27 | 17.31 | 0.59 | 1.05 | 81.52 | 113.39 |
| 693 | 47.35 | 16.30 | 0.53 | 1.05 | 83.53 | 112.58 |
| 694 | 47.40 | 15.59 | 0.49 | 1.05 | 83.45 | 111.48 |
| 695 | 47.50 | 15.28 | 0.39 | 1.05 | 82.43 | 110.45 |
| 696 | 47.55 | 15.18 | 0.36 | 1.05 | 80.62 | 109.38 |
| 697 | 47.61 | 14.98 | 0.33 | 1.05 | 80.14 | 108.87 |
| 698 | 47.69 | 14.78 | 0.32 | 1.05 | 80.47 | 108.49 |
| 699 | 47.76 | 14.37 | 0.31 | 1.05 | 81.28 | 108.16 |
| 700 | 47.83 | 13.97 | 0.29 | 1.05 | 81.76 | 107.60 |
| 701 | 47.93 | 13.66 | 0.26 | 1.05 | 81.12 | 106.97 |
| 702 | 48.02 | 13.87 | 0.24 | 1.05 | 80.49 | 106.61 |
| 703 | 48.09 | 13.87 | 0.26 | 1.05 | 79.44 | 106.28 |
| 704 | 48.18 | 13.87 | 0.22 | 0.96 | 80.27 | 106.53 |
| 705 | 48.27 | 13.76 | 0.27 | 0.96 | 81.39 | 107.03 |
| 706 | 48.37 | 13.97 | 0.31 | 0.96 | 83.22 | 107.94 |
| 707 | 48.46 | 14.17 | 0.33 | 0.96 | 84.23 | 108.58 |
| 708 | 48.52 | 14.17 | 0.35 | 0.96 | 85.01 | 108.99 |
| 709 | 48.60 | 14.17 | 0.36 | 0.96 | 85.57 | 109.30 |
| 710 | 48.70 | 14.37 | 0.37 | 0.96 | 85.68 | 109.56 |
| 711 | 48.79 | 14.57 | 0.38 | 0.96 | 85.16 | 109.83 |
| 712 | 48.85 | 14.98 | 0.40 | 0.96 | 84.80 | 110.40 |
| 713 | 48.94 | 15.59 | 0.45 | 0.86 | 84.36 | 111.35 |
| 714 | 49.04 | 16.60 | 0.53 | 0.86 | 82.26 | 112.03 |
| 715 | 49.13 | 17.81 | 0.50 | 0.86 | 82.44 | 114.35 |
| 716 | 49.23 | 20.45 | 0.95 | 0.86 | 79.90 | 116.80 |
| 717 | 49.33 | 25.10 | 1.19 | 0.86 | 78.26 | 119.08 |
| 718 | 49.38 | 26.52 | 1.32 | 0.86 | 79.49 | 120.23 |
| 719 | 49.42 | 22.98 | 1.49 | 0.86 | 79.52 | 121.11 |
| 720 | 49.48 | 28.24 | 1.64 | 0.76 | 79.69 | 121.78 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 721 | 49.53 | 28.85 | 1.70 | 0.76 | 76.78 | 122.38 |
| 722 | 49.58 | 29.25 | 1.78 | 0.76 | 76.54 | 122.73 |
| 723 | 49.63 | 30.16 | 1.86 | 0.76 | 76.14 | 123.06 |
| 724 | 49.72 | 30.87 | 1.90 | 0.76 | 75.17 | 123.25 |
| 725 | 49.77 | 31.68 | 1.88 | 0.76 | 74.33 | 123.29 |
| 726 | 49.83 | 31.68 | 1.86 | 0.76 | 74.18 | 123.23 |
| 727 | 49.92 | 30.87 | 1.85 | 0.76 | 75.14 | 123.07 |
| 728 | 49.97 | 29.55 | 1.80 | 0.76 | 75.30 | 122.90 |
| 729 | 50.04 | 30.72 | 1.75 | 0.76 | 76.58 | 122.68 |
| 730 | 50.11 | 28.14 | 1.74 | 0.76 | 75.95 | 122.69 |
| 731 | 50.20 | 30.57 | 1.79 | 0.76 | 74.75 | 122.53 |
| 732 | 50.27 | 31.88 | 1.62 | 0.76 | 72.22 | 122.03 |
| 733 | 50.34 | 29.86 | 1.37 | 0.76 | 71.16 | 120.74 |
| 734 | 50.45 | 26.72 | 1.07 | 0.76 | 72.38 | 119.07 |
| 735 | 50.54 | 23.68 | 0.89 | 0.76 | 75.35 | 117.45 |
| 736 | 50.59 | 20.75 | 0.82 | 0.76 | 79.17 | 116.17 |
| 737 | 50.68 | 18.93 | 0.71 | 0.76 | 82.34 | 115.07 |
| 738 | 50.79 | 18.02 | 0.62 | 0.76 | 83.79 | 114.12 |
| 739 | 50.88 | 17.41 | 0.60 | 0.76 | 83.70 | 113.63 |
| 740 | 50.98 | 17.97 | 0.60 | 0.86 | 84.20 | 113.54 |
| 741 | 51.07 | 17.51 | 0.60 | 0.86 | 82.59 | 113.17 |
| 742 | 51.17 | 17.91 | 0.50 | 0.86 | 77.88 | 112.22 |
| 743 | 51.24 | 19.84 | 0.38 | 0.86 | 73.04 | 111.69 |
| 744 | 51.33 | 20.75 | 0.47 | 0.86 | 72.41 | 112.26 |
| 745 | 51.46 | 19.94 | 0.60 | 0.86 | 75.43 | 113.32 |
| 746 | 51.46 | 19.53 | 0.60 | 0.86 | 78.27 | 114.06 |
| 747 | 51.51 | 19.89 | 0.66 | 0.86 | 79.25 | 114.37 |
| 748 | 51.56 | 19.84 | 0.68 | 0.86 | 80.43 | 114.92 |
| 749 | 51.65 | 19.84 | 0.75 | 0.86 | 81.58 | 115.41 |
| 750 | 51.71 | 20.14 | 0.80 | 0.86 | 82.75 | 115.96 |
| 751 | 51.79 | 20.24 | 0.85 | 0.86 | 82.76 | 116.41 |
| 752 | 51.85 | 21.05 | 0.88 | 0.96 | 82.60 | 117.17 |
| 753 | 51.94 | 22.37 | 1.05 | 0.96 | 82.55 | 118.05 |
| 754 | 51.99 | 22.87 | 1.16 | 0.96 | 82.91 | 119.26 |
| 755 | 52.09 | 24.39 | 1.38 | 0.96 | 83.97 | 120.45 |
| 756 | 52.19 | 25.20 | 1.63 | 0.96 | 79.61 | 121.96 |
| 757 | 52.28 | 33.60 | 1.89 | 1.05 | 72.62 | 123.41 |
| 758 | 52.35 | 41.19 | 2.10 | 1.05 | 70.52 | 124.45 |
| 759 | 52.43 | 34.41 | 2.30 | 1.05 | 71.21 | 125.03 |
| 760 | 52.52 | 35.53 | 2.36 | 1.05 | 74.91 | 125.21 |
| 761 | 52.62 | 35.53 | 2.39 | 1.05 | 74.30 | 125.23 |
| 762 | 52.72 | 35.73 | 2.30 | 1.05 | 73.23 | 125.06 |
| 763 | 52.81 | 36.64 | 2.18 | 1.05 | 76.25 | 125.06 |
| 764 | 52.91 | 30.36 | 2.50 | 1.05 | 84.74 | 125.89 |
| 765 | 53.00 | 26.92 | 3.37 | 1.05 | 78.34 | 127.32 |
| 766 | 53.10 | 54.35 | 3.37 | 1.15 | 54.98 | 129.03 |
| 767 | 53.20 | 105.77 | 3.09 | 1.15 | 36.28 | 130.96 |
| 768 | 53.29 | 164.47 | 4.18 | 1.15 | 25.56 | 132.47 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 769 | 53.38 | 221.05 | 4.12 | 1.24 | 20.37 | 133.80 |
| 770 | 53.46 | 256.07 | 4.20 | 1.24 | 17.07 | 134.82 |
| 771 | 53.53 | 303.03 | 5.14 | 1.24 | 16.36 | 136.29 |
| 772 | 53.63 | 317.00 | 6.49 | 1.34 | 15.39 | 137.26 |
| 773 | 53.73 | 349.49 | 5.84 | 1.43 | 13.15 | 137.28 |
| 774 | 53.82 | 418.82 | 4.63 | 1.53 | 10.93 | 136.47 |
| 775 | 53.92 | 396.66 | 4.29 | 1.62 | 10.04 | 135.51 |
| 776 | 53.94 | 347.57 | 4.04 | 1.72 | 10.76 | 134.94 |
| 777 | 53.96 | 336.23 | 3.96 | 1.53 | 11.60 | 134.54 |
| 778 | 53.97 | 324.90 | 3.90 | 1.82 | 10.87 | 134.48 |
| 779 | 54.05 | 386.03 | 3.80 | 1.91 | 9.65 | 134.60 |
| 780 | 54.08 | 421.76 | 3.84 | 2.01 | 7.98 | 134.88 |
| 781 | 54.13 | 470.95 | 3.88 | 2.01 | 6.82 | 135.32 |
| 782 | 54.19 | 526.82 | 4.09 | 2.10 | 6.18 | 136.15 |
| 783 | 54.25 | 558.50 | 4.85 | 2.10 | 6.33 | 136.53 |
| 784 | 54.28 | 487.24 | 4.52 | 2.20 | 6.83 | 136.70 |
| 785 | 54.29 | 486.79 | 4.52 | 2.20 | 7.28 | 136.40 |
| 786 | 54.34 | 486.33 | 4.52 | 2.20 | 7.28 | 136.41 |
| 787 | 54.35 | 487.45 | 4.52 | 2.20 | 7.16 | 136.45 |
| 788 | 54.40 | 502.73 | 4.55 | 2.29 | 6.91 | 136.58 |
| 789 | 54.44 | 524.39 | 4.66 | 2.29 | 6.59 | 136.78 |
| 790 | 54.49 | 539.67 | 4.74 | 2.39 | 6.33 | 136.88 |
| 791 | 54.53 | 542.71 | 4.62 | 2.39 | 6.16 | 137.00 |
| 792 | 54.57 | 556.27 | 4.81 | 2.68 | 6.01 | 137.19 |
| 793 | 54.58 | 575.70 | 5.00 | 2.96 | 6.08 | 137.28 |
| 794 | 54.63 | 571.25 | 5.32 | 3.06 | 6.35 | 137.28 |
| 795 | 54.68 | 535.62 | 5.13 | 3.15 | 7.02 | 137.28 |
| 796 | 54.73 | 501.92 | 5.33 | 3.35 | 7.61 | 137.28 |
| 797 | 54.78 | 493.82 | 5.24 | 3.25 | 7.81 | 137.28 |
| 798 | 54.83 | 503.13 | 4.96 | 3.35 | 8.02 | 137.28 |
| 799 | 54.88 | 483.80 | 5.42 | 3.25 | 8.15 | 137.28 |
| 800 | 54.92 | 504.35 | 5.80 | 3.35 | 8.44 | 137.28 |
| 801 | 54.97 | 513.76 | 5.91 | 3.35 | 8.28 | 137.28 |
| 802 | 55.02 | 514.17 | 5.71 | 3.35 | 8.29 | 137.28 |
| 803 | 55.12 | 512.24 | 5.99 | 3.35 | 9.19 | 137.28 |
| 804 | 55.17 | 437.14 | 6.44 | 3.35 | 10.90 | 137.28 |
| 805 | 55.25 | 397.97 | 6.94 | 3.54 | 12.33 | 137.28 |
| 806 | 55.31 | 396.35 | 6.00 | 3.63 | 12.48 | 137.28 |
| 807 | 55.36 | 388.16 | 5.24 | 3.73 | 11.51 | 136.87 |
| 808 | 55.45 | 379.86 | 4.35 | 3.82 | 10.76 | 135.80 |
| 809 | 55.50 | 375.10 | 3.96 | 3.82 | 10.78 | 135.09 |
| 810 | 55.60 | 342.61 | 4.16 | 3.82 | 11.41 | 134.98 |
| 811 | 55.65 | 335.83 | 4.33 | 3.82 | 12.01 | 134.55 |
| 812 | 55.71 | 318.11 | 3.48 | 3.73 | 11.81 | 133.90 |
| 813 | 55.75 | 318.32 | 3.23 | 4.01 | 11.15 | 133.00 |
| 814 | 55.79 | 324.59 | 3.09 | 4.01 | 10.75 | 132.84 |
| 815 | 55.84 | 332.28 | 3.22 | 4.01 | 10.43 | 132.92 |
| 816 | 55.89 | 340.38 | 3.26 | 4.11 | 10.29 | 133.07 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 817 | 55.90 | 341.19 | 3.24 | 4.30 | 10.16 | 133.10 |
| 818 | 55.94 | 341.70 | 3.23 | 4.30 | 10.40 | 133.09 |
| 819 | 55.99 | 325.71 | 3.29 | 4.40 | 10.86 | 133.10 |
| 820 | 56.03 | 315.28 | 3.33 | 4.40 | 11.37 | 133.06 |
| 821 | 56.08 | 312.45 | 3.28 | 4.40 | 11.60 | 132.92 |
| 822 | 56.14 | 307.08 | 3.17 | 4.40 | 11.73 | 132.73 |
| 823 | 56.22 | 299.39 | 3.13 | 4.40 | 11.94 | 132.53 |
| 824 | 56.28 | 293.01 | 3.09 | 4.49 | 12.14 | 132.38 |
| 825 | 56.33 | 290.28 | 3.03 | 4.40 | 12.22 | 132.35 |
| 826 | 56.38 | 294.23 | 3.11 | 4.40 | 12.04 | 132.26 |
| 827 | 56.45 | 297.47 | 2.97 | 4.40 | 11.65 | 132.30 |
| 828 | 56.52 | 312.14 | 3.01 | 4.40 | 11.06 | 132.37 |
| 829 | 56.62 | 327.93 | 3.08 | 4.40 | 10.51 | 132.50 |
| 830 | 56.66 | 335.32 | 3.02 | 4.40 | 9.79 | 132.45 |
| 831 | 56.73 | 351.82 | 2.83 | 4.40 | 9.62 | 132.89 |
| 832 | 56.81 | 362.85 | 3.53 | 4.49 | 9.77 | 133.43 |
| 833 | 56.95 | 356.47 | 3.65 | 4.40 | 10.06 | 134.06 |
| 834 | 57.00 | 370.75 | 3.68 | 4.40 | 10.03 | 134.48 |
| 835 | 57.09 | 389.98 | 4.06 | 4.40 | 10.22 | 134.71 |
| 836 | 57.19 | 358.40 | 4.02 | 4.59 | 10.60 | 134.88 |
| 837 | 57.27 | 357.18 | 4.00 | 4.49 | 11.00 | 134.55 |
| 838 | 57.35 | 346.35 | 3.69 | 4.59 | 10.13 | 133.80 |
| 839 | 57.44 | 369.23 | 2.85 | 4.49 | 9.47 | 132.97 |
| 840 | 57.50 | 352.73 | 2.88 | 4.59 | 8.69 | 132.46 |
| 841 | 57.52 | 370.95 | 2.99 | 4.30 | 8.68 | 133.16 |
| 842 | 57.58 | 410.42 | 3.60 | 4.30 | 8.49 | 134.41 |
| 843 | 57.63 | 446.56 | 4.36 | 4.30 | 8.42 | 135.32 |
| 844 | 57.72 | 439.07 | 4.21 | 4.40 | 8.40 | 135.58 |
| 845 | 57.77 | 431.17 | 3.97 | 4.40 | 8.22 | 135.14 |
| 846 | 57.82 | 430.77 | 3.67 | 4.40 | 7.74 | 134.36 |
| 847 | 57.91 | 426.51 | 3.05 | 4.40 | 6.86 | 133.51 |
| 848 | 57.96 | 452.73 | 2.75 | 4.40 | 6.01 | 132.56 |
| 849 | 58.02 | 449.09 | 2.48 | 4.40 | 5.35 | 132.23 |
| 850 | 58.09 | 474.69 | 2.59 | 4.49 | 5.13 | 132.30 |
| 851 | 58.16 | 483.80 | 2.77 | 4.49 | 4.92 | 132.61 |
| 852 | 58.25 | 495.95 | 2.73 | 4.49 | 5.00 | 132.98 |
| 853 | 58.30 | 493.42 | 2.98 | 4.49 | 5.44 | 133.54 |
| 854 | 58.40 | 473.38 | 3.46 | 4.49 | 5.94 | 133.95 |
| 855 | 58.50 | 471.86 | 3.32 | 4.49 | 6.39 | 134.14 |
| 856 | 58.56 | 460.12 | 3.32 | 4.49 | 6.35 | 134.03 |
| 857 | 58.64 | 470.34 | 3.32 | 4.49 | 6.52 | 134.15 |
| 858 | 58.73 | 463.76 | 3.50 | 4.68 | 6.66 | 134.73 |
| 859 | 58.78 | 490.08 | 4.08 | 4.68 | 6.43 | 134.94 |
| 860 | 58.88 | 510.42 | 3.53 | 4.68 | 6.01 | 135.03 |
| 861 | 58.97 | 519.43 | 3.50 | 4.78 | 5.46 | 134.39 |
| 862 | 59.07 | 503.03 | 3.11 | 4.78 | 5.31 | 133.97 |
| 863 | 59.13 | 496.05 | 2.99 | 4.78 | 5.28 | 133.42 |
| 864 | 59.23 | 481.47 | 2.88 | 4.78 | 5.21 | 132.95 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 865 | 59.31 | 476.41 | 2.60 | 4.78 | 5.30 | 132.24 |
| 866 | 59.38 | 435.32 | 2.31 | 4.78 | 5.27 | 131.56 |
| 867 | 59.41 | 439.12 | 2.27 | 4.78 | 5.38 | 131.23 |
| 868 | 59.46 | 442.91 | 2.34 | 4.78 | 5.29 | 131.28 |
| 869 | 59.51 | 448.48 | 2.34 | 4.78 | 5.27 | 131.25 |
| 870 | 59.57 | 439.07 | 2.23 | 4.78 | 5.63 | 132.20 |
| 871 | 59.66 | 467.91 | 3.25 | 4.87 | 5.58 | 132.94 |
| 872 | 59.75 | 505.97 | 3.06 | 4.97 | 6.03 | 134.45 |
| 873 | 59.80 | 502.83 | 4.04 | 4.97 | 6.32 | 135.37 |
| 874 | 59.85 | 510.42 | 4.53 | 4.97 | 6.89 | 136.20 |
| 875 | 59.91 | 512.45 | 4.44 | 4.97 | 7.09 | 136.30 |
| 876 | 59.99 | 489.57 | 4.24 | 4.97 | 7.40 | 136.48 |
| 877 | 60.05 | 494.33 | 4.91 | 4.87 | 8.36 | 136.97 |
| 878 | 60.09 | 458.80 | 5.56 | 4.78 | 9.17 | 137.25 |
| 879 | 60.14 | 440.99 | 5.00 | 4.78 | 9.81 | 137.14 |
| 880 | 60.19 | 433.30 | 4.90 | 4.78 | 9.70 | 136.76 |
| 881 | 60.22 | 439.07 | 4.84 | 4.78 | 9.61 | 136.51 |
| 882 | 60.28 | 430.16 | 4.56 | 4.78 | 10.15 | 136.19 |
| 883 | 60.33 | 369.53 | 4.52 | 4.78 | 11.14 | 135.77 |
| 884 | 60.38 | 343.82 | 4.41 | 4.78 | 12.93 | 135.37 |
| 885 | 60.42 | 303.34 | 4.35 | 4.68 | 14.24 | 134.92 |
| 886 | 60.48 | 281.88 | 4.12 | 4.68 | 14.94 | 133.83 |
| 887 | 60.57 | 260.63 | 2.98 | 4.59 | 14.40 | 131.99 |
| 888 | 60.66 | 244.74 | 2.02 | 4.59 | 13.41 | 129.58 |
| 889 | 60.68 | 226.11 | 1.72 | 4.49 | 12.77 | 127.88 |
| 890 | 60.69 | 225.45 | 1.67 | 4.01 | 12.50 | 126.95 |
| 891 | 60.74 | 224.80 | 1.43 | 4.11 | 12.59 | 126.30 |
| 892 | 60.79 | 202.83 | 1.36 | 4.21 | 12.85 | 125.42 |
| 893 | 60.84 | 190.99 | 1.24 | 4.11 | 13.42 | 124.52 |
| 894 | 60.89 | 182.49 | 1.05 | 4.11 | 13.76 | 123.73 |
| 895 | 60.98 | 173.38 | 1.04 | 4.01 | 14.35 | 123.40 |
| 896 | 61.03 | 167.00 | 1.14 | 4.01 | 16.66 | 125.09 |
| 897 | 61.08 | 163.66 | 1.94 | 4.01 | 20.32 | 128.00 |
| 898 | 61.18 | 163.76 | 3.09 | 3.92 | 22.76 | 129.84 |
| 899 | 61.23 | 166.29 | 2.90 | 3.92 | 24.31 | 131.32 |
| 900 | 61.31 | 174.39 | 3.66 | 3.92 | 20.35 | 131.18 |
| 901 | 61.42 | 241.39 | 2.47 | 3.92 | 15.65 | 131.06 |
| 902 | 61.47 | 293.32 | 2.18 | 4.01 | 10.48 | 129.51 |
| 903 | 61.51 | 326.62 | 1.66 | 3.92 | 7.95 | 129.12 |
| 904 | 61.54 | 373.78 | 1.86 | 3.73 | 6.66 | 129.28 |
| 905 | 61.57 | 397.87 | 2.12 | 3.73 | 6.17 | 130.14 |
| 906 | 61.58 | 415.68 | 2.20 | 3.54 | 5.00 | 130.33 |
| 907 | 61.61 | 442.20 | 1.90 | 3.54 | 6.02 | 129.76 |
| 908 | 61.63 | 322.26 | 1.78 | 2.77 | 6.49 | 129.08 |
| 909 | 61.63 | 338.36 | 1.80 | 2.77 | 11.34 | 128.31 |
| 910 | 61.66 | 112.95 | 1.97 | 2.20 | 16.91 | 128.00 |
| 911 | 61.67 | 122.67 | 2.10 | 2.20 | 26.40 | 127.65 |
| 912 | 61.70 | 152.93 | 2.30 | 2.20 | 22.91 | 128.46 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 913 | 61.71 | 183.20 | 2.33 | 2.20 | 19.72 | 129.29 |
| 914 | 61.76 | 206.48 | 2.50 | 2.10 | 17.47 | 129.99 |
| 915 | 61.80 | 229.45 | 2.69 | 2.01 | 15.78 | 130.50 |
| 916 | 61.84 | 250.50 | 2.60 | 2.01 | 13.82 | 130.39 |
| 917 | 61.86 | 271.15 | 2.16 | 2.01 | 11.07 | 129.64 |
| 918 | 61.93 | 317.51 | 1.72 | 2.01 | 8.65 | 128.83 |
| 919 | 61.98 | 348.28 | 1.71 | 2.01 | 5.00 | 128.76 |
| 920 | 62.04 | 407.39 | 1.86 | 2.01 | 5.00 | 130.00 |
| 921 | 62.09 | 460.93 | 2.44 | 2.10 | 5.00 | 130.94 |
| 922 | 62.14 | 486.94 | 2.29 | 2.01 | 4.65 | 131.59 |
| 923 | 62.19 | 497.77 | 2.32 | 2.01 | 4.30 | 131.67 |
| 924 | 62.24 | 512.55 | 2.43 | 2.01 | 4.19 | 131.86 |
| 925 | 62.26 | 516.39 | 2.43 | 2.01 | 4.03 | 131.99 |
| 926 | 62.29 | 528.94 | 2.40 | 2.10 | 4.03 | 131.96 |
| 927 | 62.38 | 511.74 | 2.40 | 2.20 | 4.39 | 132.48 |
| 928 | 62.44 | 506.37 | 2.97 | 2.10 | 5.19 | 132.83 |
| 929 | 62.46 | 452.63 | 2.92 | 2.10 | 5.89 | 133.06 |
| 930 | 62.47 | 448.12 | 2.80 | 1.24 | 6.21 | 132.63 |
| 931 | 62.51 | 443.62 | 2.61 | 1.43 | 5.98 | 132.52 |
| 932 | 62.56 | 469.23 | 2.76 | 1.53 | 5.91 | 132.86 |
| 933 | 62.60 | 479.04 | 3.12 | 1.53 | 5.80 | 133.25 |
| 934 | 62.65 | 484.51 | 2.99 | 1.53 | 5.69 | 133.25 |
| 935 | 62.70 | 481.58 | 2.73 | 1.53 | 5.44 | 132.87 |
| 936 | 62.75 | 480.87 | 2.67 | 1.53 | 5.25 | 132.60 |
| 937 | 62.80 | 486.64 | 2.68 | 1.62 | 4.98 | 132.62 |
| 938 | 62.85 | 516.90 | 2.69 | 1.62 | 4.37 | 132.78 |
| 939 | 62.89 | 572.26 | 2.69 | 1.72 | 3.80 | 133.35 |
| 940 | 62.97 | 618.32 | 3.10 | 1.82 | 3.40 | 134.28 |
| 941 | 63.04 | 668.31 | 3.58 | 1.82 | 3.09 | 135.14 |
| 942 | 63.09 | 716.80 | 3.59 | 1.82 | 2.87 | 135.70 |
| 943 | 63.13 | 724.18 | 3.74 | 1.91 | 2.94 | 136.16 |
| 944 | 63.19 | 705.46 | 4.21 | 1.91 | 3.36 | 136.94 |
| 945 | 63.23 | 719.83 | 4.89 | 1.91 | 3.84 | 137.28 |
| 946 | 63.28 | 735.32 | 5.37 | 1.91 | 4.17 | 137.28 |
| 947 | 63.32 | 725.10 | 5.58 | 2.01 | 3.85 | 137.28 |
| 948 | 63.38 | 727.02 | 3.92 | 2.10 | 2.64 | 135.83 |
| 949 | 63.44 | 724.79 | 1.47 | 2.10 | 1.89 | 134.28 |
| 950 | 63.52 | 728.13 | 3.49 | 2.29 | 1.92 | 134.03 |
| 951 | 63.57 | 693.42 | 3.66 | 2.68 | 2.71 | 135.18 |
| 952 | 63.66 | 670.44 | 3.03 | 2.68 | 3.13 | 134.92 |
| 953 | 63.73 | 614.77 | 3.31 | 2.77 | 4.81 | 133.80 |
| 954 | 63.76 | 319.53 | 2.86 | 3.15 | 6.52 | 133.28 |
| 955 | 63.76 | 432.39 | 2.88 | 3.15 | 7.53 | 132.72 |
| 956 | 63.78 | 483.50 | 2.92 | 3.15 | 6.10 | 133.35 |
| 957 | 63.81 | 499.59 | 3.22 | 3.15 | 5.61 | 134.22 |
| 958 | 63.85 | 555.36 | 3.75 | 3.15 | 5.72 | 134.88 |
| 959 | 63.86 | 524.19 | 3.76 | 3.15 | 6.14 | 135.34 |
| 960 | 63.91 | 488.05 | 3.95 | 3.25 | 6.96 | 135.56 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 961 | 63.94 | 481.37 | 4.28 | 3.06 | 7.58 | 135.81 |
| 962 | 63.95 | 481.78 | 4.31 | 2.96 | 7.84 | 136.00 |
| 963 | 64.00 | 477.73 | 4.30 | 2.96 | 7.92 | 135.94 |
| 964 | 64.02 | 469.13 | 4.22 | 2.96 | 7.88 | 135.77 |
| 965 | 64.05 | 472.67 | 4.05 | 2.96 | 7.62 | 135.55 |
| 966 | 64.09 | 485.42 | 3.89 | 2.96 | 7.39 | 135.35 |
| 967 | 64.11 | 476.31 | 3.87 | 3.06 | 7.15 | 135.11 |
| 968 | 64.15 | 478.34 | 3.65 | 3.06 | 6.89 | 134.84 |
| 969 | 64.20 | 492.00 | 3.47 | 3.06 | 6.53 | 134.82 |
| 970 | 64.25 | 512.45 | 3.75 | 3.06 | 6.14 | 134.94 |
| 971 | 64.29 | 533.19 | 3.70 | 3.06 | 5.78 | 135.26 |
| 972 | 64.34 | 561.33 | 3.79 | 3.25 | 5.01 | 135.28 |
| 973 | 64.43 | 616.49 | 3.54 | 3.25 | 4.34 | 135.35 |
| 974 | 64.48 | 639.47 | 3.59 | 3.35 | 3.80 | 135.20 |
| 975 | 64.53 | 636.74 | 3.43 | 3.35 | 3.33 | 134.70 |
| 976 | 64.58 | 651.72 | 2.78 | 3.35 | 3.10 | 134.64 |
| 977 | 64.63 | 676.61 | 3.45 | 3.44 | 2.91 | 135.01 |
| 978 | 64.68 | 713.46 | 3.79 | 3.44 | 3.16 | 136.27 |
| 979 | 64.73 | 738.66 | 4.50 | 3.44 | 3.23 | 136.63 |
| 980 | 64.77 | 703.94 | 3.99 | 3.44 | 3.00 | 136.64 |
| 981 | 64.82 | 764.06 | 3.71 | 3.63 | 2.55 | 136.18 |
| 982 | 64.87 | 785.42 | 3.67 | 3.63 | 2.65 | 135.90 |
| 983 | 64.89 | 648.27 | 3.66 | 3.82 | 2.87 | 135.82 |
| 984 | 64.93 | 708.09 | 3.69 | 3.82 | 3.20 | 135.78 |
| 985 | 64.94 | 712.24 | 3.73 | 3.92 | 2.93 | 135.98 |
| 986 | 64.98 | 726.92 | 3.83 | 3.92 | 2.86 | 136.11 |
| 987 | 64.99 | 737.75 | 3.84 | 4.01 | 2.79 | 136.19 |
| 988 | 65.03 | 737.24 | 3.82 | 4.01 | 2.77 | 136.10 |
| 989 | 65.08 | 721.96 | 3.70 | 4.11 | 2.68 | 135.79 |
| 990 | 65.13 | 721.76 | 3.39 | 4.01 | 2.53 | 135.18 |
| 991 | 65.17 | 702.63 | 3.00 | 4.21 | 2.31 | 134.38 |
| 992 | 65.22 | 686.23 | 2.70 | 4.30 | 2.22 | 133.76 |
| 993 | 65.23 | 678.84 | 2.70 | 4.30 | 2.19 | 133.47 |
| 994 | 65.28 | 679.40 | 2.71 | 4.40 | 2.24 | 133.50 |
| 995 | 65.32 | 679.40 | 2.75 | 4.49 | 2.48 | 134.03 |
| 996 | 65.37 | 679.95 | 3.32 | 4.49 | 2.63 | 134.36 |
| 997 | 65.42 | 680.97 | 3.11 | 4.49 | 2.78 | 134.78 |
| 998 | 65.47 | 692.71 | 3.26 | 4.49 | 2.89 | 134.63 |
| 999 | 65.48 | 641.09 | 3.19 | 4.40 | 3.08 | 134.58 |
| 1000 | 65.49 | 637.65 | 3.11 | 4.01 | 3.14 | 134.13 |
| 1001 | 65.52 | 637.65 | 2.79 | 4.40 | 3.09 | 133.95 |
| 1002 | 65.57 | 634.21 | 2.97 | 4.30 | 1.61 | 130.82 |
| 1003 | 65.62 | 664.97 | 0.00 | 4.40 | 0.17 | 126.03 |
| 1004 | 65.67 | 684.10 | 0.00 | 4.49 | N/A | 87.36 |
| 1005 | 65.69 | 698.07 | 0.00 | 4.59 | N/A | 87.36 |
| 1006 | 65.72 | 709.31 | 0.00 | 4.59 | N/A | 87.36 |
| 1007 | 65.77 | 749.49 | 0.00 | 4.59 | N/A | 87.36 |
| 1008 | 65.82 | 797.77 | 0.00 | 4.59 | N/A | 87.36 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1009 | 65.86 | 824.89 | 0.00 | 4.59 | N/A | 87.36 |
| 1010 | 65.86 | 813.05 | 0.00 | 4.59 | N/A | 87.36 |
| 1011 | 65.91 | 862.75 | 0.00 | 4.68 | N/A | 87.36 |
| 1012 | 65.96 | 886.13 | 0.00 | 4.78 | N/A | 87.36 |

**Abbreviations**

| | |
|---|---|
| Depth: | Depth from free surface, at which CPT was performed (ft) |
| $q_c$: | Measured cone resistance (tsf) |
| $f_s$: | Sleeve friction resistance (tsf) |
| u: | Pore pressure (tsf) |
| Fines content: | Percentage of fines in soil (%) |
| Unit weight: | Bulk soil unit weight (pcf) |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data ::**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.01 | 0.00 | 0.00 | 0.00 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 2 | 0.04 | 0.00 | 0.00 | 0.00 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 3 | 0.08 | 0.00 | 0.00 | 0.00 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 4 | 0.10 | 0.01 | 0.00 | 0.01 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 5 | 0.13 | 0.01 | 0.00 | 0.01 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 6 | 0.18 | 0.01 | 0.00 | 0.01 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 7 | 0.22 | 0.01 | 0.00 | 0.01 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 8 | 0.27 | 0.02 | 0.00 | 0.02 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 9 | 0.33 | 0.02 | 0.00 | 0.02 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 10 | 0.36 | 0.02 | 0.00 | 0.02 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 11 | 0.37 | 0.02 | 0.00 | 0.02 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 12 | 0.38 | 0.02 | 0.00 | 0.02 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 13 | 0.42 | 0.02 | 0.00 | 0.02 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 14 | 0.44 | 0.02 | 0.00 | 0.02 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 15 | 0.47 | 0.03 | 0.00 | 0.03 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 16 | 0.47 | 0.03 | 0.00 | 0.03 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 17 | 0.52 | 0.03 | 0.00 | 0.03 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 18 | 0.56 | 0.03 | 0.00 | 0.03 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 19 | 0.58 | 0.03 | 0.00 | 0.03 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 20 | 0.61 | 0.03 | 0.00 | 0.03 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 21 | 0.66 | 0.04 | 0.00 | 0.04 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 22 | 0.76 | 0.04 | 0.00 | 0.04 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 23 | 0.80 | 0.04 | 0.00 | 0.04 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 24 | 0.81 | 0.04 | 0.00 | 0.04 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 25 | 0.85 | 0.05 | 0.00 | 0.05 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 26 | 0.86 | 0.05 | 0.00 | 0.05 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 27 | 0.90 | 0.05 | 0.00 | 0.05 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 28 | 0.95 | 0.05 | 0.00 | 0.05 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 29 | 1.00 | 0.05 | 0.00 | 0.05 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 30 | 1.05 | 0.06 | 0.00 | 0.06 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 31 | 1.14 | 0.06 | 0.00 | 0.06 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 32 | 1.24 | 0.07 | 0.00 | 0.07 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 33 | 1.31 | 0.07 | 0.00 | 0.07 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 34 | 1.36 | 0.07 | 0.00 | 0.07 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 35 | 1.37 | 0.07 | 0.00 | 0.07 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 36 | 1.39 | 0.07 | 0.00 | 0.07 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 37 | 1.43 | 0.08 | 0.00 | 0.08 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 38 | 1.44 | 0.08 | 0.00 | 0.08 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 39 | 1.49 | 0.08 | 0.00 | 0.08 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 40 | 1.53 | 0.08 | 0.00 | 0.08 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 41 | 1.58 | 0.08 | 0.00 | 0.08 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 42 | 1.63 | 0.09 | 0.00 | 0.09 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 43 | 1.68 | 0.09 | 0.00 | 0.09 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 44 | 1.72 | 0.09 | 0.00 | 0.09 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 45 | 1.77 | 0.09 | 0.00 | 0.09 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 46 | 1.82 | 0.10 | 0.00 | 0.10 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 47 | 1.86 | 0.10 | 0.00 | 0.10 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 48 | 1.92 | 0.10 | 0.00 | 0.10 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 49 | 1.97 | 0.10 | 0.00 | 0.10 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 50 | 2.01 | 0.11 | 0.00 | 0.11 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 51 | 2.09 | 0.11 | 0.00 | 0.11 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 52 | 2.16 | 0.11 | 0.00 | 0.11 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 53 | 2.20 | 0.12 | 0.00 | 0.12 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 54 | 2.25 | 0.12 | 0.00 | 0.12 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 55 | 2.31 | 0.12 | 0.00 | 0.12 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 56 | 2.37 | 0.13 | 0.00 | 0.13 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 57 | 2.40 | 0.13 | 0.00 | 0.13 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 58 | 2.46 | 0.13 | 0.00 | 0.13 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 59 | 2.54 | 0.13 | 0.00 | 0.13 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 60 | 2.59 | 0.14 | 0.00 | 0.14 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 61 | 2.69 | 0.14 | 0.00 | 0.14 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 62 | 2.74 | 0.15 | 0.00 | 0.15 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 63 | 2.83 | 0.15 | 0.00 | 0.15 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 64 | 2.88 | 0.15 | 0.00 | 0.15 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 65 | 2.98 | 0.16 | 0.00 | 0.16 | 1.00 | 0.272 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 66 | 3.03 | 0.16 | 0.00 | 0.16 | 0.99 | 0.272 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 67 | 3.12 | 0.17 | 0.00 | 0.17 | 0.99 | 0.272 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 68 | 3.21 | 0.17 | 0.00 | 0.17 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 69 | 3.27 | 0.17 | 0.00 | 0.17 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 70 | 3.34 | 0.18 | 0.00 | 0.18 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 71 | 3.41 | 0.18 | 0.00 | 0.18 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 72 | 3.51 | 0.19 | 0.00 | 0.19 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 73 | 3.55 | 0.19 | 0.00 | 0.19 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 74 | 3.65 | 0.19 | 0.00 | 0.19 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 75 | 3.75 | 0.20 | 0.00 | 0.20 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 76 | 3.83 | 0.20 | 0.00 | 0.20 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 77 | 3.94 | 0.21 | 0.00 | 0.21 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 78 | 4.04 | 0.22 | 0.00 | 0.22 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 79 | 4.13 | 0.22 | 0.00 | 0.22 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 80 | 4.24 | 0.23 | 0.00 | 0.23 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 81 | 4.38 | 0.23 | 0.00 | 0.23 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 82 | 4.50 | 0.24 | 0.00 | 0.24 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 83 | 4.62 | 0.25 | 0.00 | 0.25 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 84 | 4.71 | 0.25 | 0.00 | 0.25 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 85 | 4.75 | 0.26 | 0.00 | 0.26 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 86 | 4.84 | 0.26 | 0.00 | 0.26 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 87 | 4.89 | 0.26 | 0.00 | 0.26 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 88 | 4.94 | 0.27 | 0.00 | 0.27 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 89 | 4.98 | 0.27 | 0.00 | 0.27 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 90 | 5.07 | 0.27 | 0.00 | 0.27 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 91 | 5.13 | 0.28 | 0.00 | 0.28 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 92 | 5.17 | 0.28 | 0.00 | 0.28 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 93 | 5.27 | 0.28 | 0.00 | 0.28 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 94 | 5.32 | 0.29 | 0.00 | 0.29 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 95 | 5.42 | 0.29 | 0.00 | 0.29 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 96 | 5.46 | 0.30 | 0.00 | 0.30 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97 | 5.56 | 0.30 | 0.00 | 0.30 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 98 | 5.61 | 0.30 | 0.00 | 0.30 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 99 | 5.71 | 0.31 | 0.00 | 0.31 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 100 | 5.78 | 0.31 | 0.00 | 0.31 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 101 | 5.85 | 0.32 | 0.00 | 0.32 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 102 | 5.95 | 0.32 | 0.00 | 0.32 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 103 | 6.00 | 0.33 | 0.00 | 0.33 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 104 | 6.09 | 0.33 | 0.00 | 0.33 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 105 | 6.14 | 0.33 | 0.00 | 0.33 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 106 | 6.24 | 0.34 | 0.00 | 0.34 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 107 | 6.30 | 0.34 | 0.00 | 0.34 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 108 | 6.38 | 0.35 | 0.00 | 0.35 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 109 | 6.46 | 0.35 | 0.00 | 0.35 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 110 | 6.50 | 0.35 | 0.00 | 0.35 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 111 | 6.56 | 0.36 | 0.00 | 0.36 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 112 | 6.63 | 0.36 | 0.00 | 0.36 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 113 | 6.68 | 0.36 | 0.00 | 0.36 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 114 | 6.76 | 0.37 | 0.00 | 0.37 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 115 | 6.82 | 0.37 | 0.00 | 0.37 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 116 | 6.88 | 0.37 | 0.00 | 0.37 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 117 | 6.96 | 0.38 | 0.00 | 0.38 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 118 | 7.03 | 0.38 | 0.00 | 0.38 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 119 | 7.11 | 0.39 | 0.00 | 0.39 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 120 | 7.16 | 0.39 | 0.00 | 0.39 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 121 | 7.26 | 0.39 | 0.00 | 0.39 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 122 | 7.31 | 0.40 | 0.00 | 0.40 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 123 | 7.40 | 0.40 | 0.00 | 0.40 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 124 | 7.45 | 0.41 | 0.00 | 0.41 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 125 | 7.54 | 0.41 | 0.00 | 0.41 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 126 | 7.60 | 0.41 | 0.00 | 0.41 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 127 | 7.68 | 0.42 | 0.00 | 0.42 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 128 | 7.74 | 0.42 | 0.00 | 0.42 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 129 | 7.83 | 0.43 | 0.00 | 0.43 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 130 | 7.90 | 0.43 | 0.00 | 0.43 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 131 | 7.98 | 0.43 | 0.00 | 0.43 | 0.98 | 0.268 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 132 | 8.05 | 0.44 | 0.00 | 0.44 | 0.98 | 0.268 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 133 | 8.12 | 0.44 | 0.00 | 0.44 | 0.98 | 0.268 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 134 | 8.19 | 0.45 | 0.00 | 0.45 | 0.98 | 0.268 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 135 | 8.27 | 0.45 | 0.00 | 0.45 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 136 | 8.36 | 0.46 | 0.00 | 0.46 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 137 | 8.41 | 0.46 | 0.00 | 0.46 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 138 | 8.50 | 0.46 | 0.00 | 0.46 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 139 | 8.60 | 0.47 | 0.00 | 0.47 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 140 | 8.70 | 0.47 | 0.00 | 0.47 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 141 | 8.74 | 0.48 | 0.00 | 0.48 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 142 | 8.78 | 0.48 | 0.00 | 0.48 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 143 | 8.81 | 0.48 | 0.00 | 0.48 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 144 | 8.86 | 0.48 | 0.00 | 0.48 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 145 | 8.91 | 0.49 | 0.00 | 0.49 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 146 | 8.94 | 0.49 | 0.00 | 0.49 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 147 | 9.02 | 0.49 | 0.00 | 0.49 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 148 | 9.10 | 0.50 | 0.00 | 0.50 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 149 | 9.17 | 0.50 | 0.00 | 0.50 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 150 | 9.22 | 0.50 | 0.00 | 0.50 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 151 | 9.31 | 0.51 | 0.00 | 0.51 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 152 | 9.37 | 0.51 | 0.00 | 0.51 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 153 | 9.42 | 0.51 | 0.00 | 0.51 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 154 | 9.52 | 0.52 | 0.00 | 0.52 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 155 | 9.60 | 0.53 | 0.00 | 0.53 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 156 | 9.66 | 0.53 | 0.00 | 0.53 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 157 | 9.74 | 0.53 | 0.00 | 0.53 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 158 | 9.81 | 0.54 | 0.00 | 0.54 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 159 | 9.89 | 0.54 | 0.00 | 0.54 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 160 | 9.98 | 0.55 | 0.00 | 0.55 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 161 | 10.03 | 0.55 | 0.00 | 0.55 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 162 | 10.13 | 0.55 | 0.00 | 0.55 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 163 | 10.23 | 0.56 | 0.00 | 0.56 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 164 | 10.32 | 0.57 | 0.00 | 0.57 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 165 | 10.38 | 0.57 | 0.00 | 0.57 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 166 | 10.47 | 0.57 | 0.00 | 0.57 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 167 | 10.57 | 0.58 | 0.00 | 0.58 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 168 | 10.66 | 0.58 | 0.00 | 0.58 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 169 | 10.76 | 0.59 | 0.00 | 0.59 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 170 | 10.85 | 0.60 | 0.00 | 0.60 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 171 | 10.92 | 0.60 | 0.00 | 0.60 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 172 | 11.00 | 0.60 | 0.00 | 0.60 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 173 | 11.07 | 0.61 | 0.00 | 0.61 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 174 | 11.10 | 0.61 | 0.00 | 0.61 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 175 | 11.15 | 0.61 | 0.00 | 0.61 | 0.98 | 0.267 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 176 | 11.19 | 0.61 | 0.00 | 0.61 | 0.98 | 0.267 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 177 | 11.24 | 0.62 | 0.00 | 0.62 | 0.98 | 0.267 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 178 | 11.29 | 0.62 | 0.00 | 0.62 | 0.98 | 0.267 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 179 | 11.34 | 0.62 | 0.00 | 0.62 | 0.98 | 0.267 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 180 | 11.40 | 0.63 | 0.00 | 0.63 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 181 | 11.47 | 0.63 | 0.00 | 0.63 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 182 | 11.53 | 0.63 | 0.00 | 0.63 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 183 | 11.58 | 0.64 | 0.00 | 0.64 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 184 | 11.65 | 0.64 | 0.00 | 0.64 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 185 | 11.72 | 0.64 | 0.00 | 0.64 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 186 | 11.77 | 0.65 | 0.00 | 0.65 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 187 | 11.82 | 0.65 | 0.00 | 0.65 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 188 | 11.88 | 0.65 | 0.00 | 0.65 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 189 | 11.97 | 0.66 | 0.00 | 0.66 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 190 | 12.02 | 0.66 | 0.00 | 0.66 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 191 | 12.06 | 0.66 | 0.00 | 0.66 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 192 | 12.11 | 0.67 | 0.00 | 0.67 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 193 | 12.21 | 0.67 | 0.00 | 0.67 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 194 | 12.25 | 0.67 | 0.00 | 0.67 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 195 | 12.30 | 0.68 | 0.00 | 0.68 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 196 | 12.31 | 0.68 | 0.00 | 0.68 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 197 | 12.32 | 0.68 | 0.00 | 0.68 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 198 | 12.35 | 0.68 | 0.00 | 0.68 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 199 | 12.40 | 0.68 | 0.00 | 0.68 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 200 | 12.45 | 0.69 | 0.00 | 0.69 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 201 | 12.52 | 0.69 | 0.00 | 0.69 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 202 | 12.56 | 0.69 | 0.00 | 0.69 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 203 | 12.62 | 0.70 | 0.00 | 0.70 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 204 | 12.65 | 0.70 | 0.00 | 0.70 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 205 | 12.71 | 0.70 | 0.00 | 0.70 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 206 | 12.76 | 0.70 | 0.00 | 0.70 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 207 | 12.83 | 0.71 | 0.00 | 0.71 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 208 | 12.88 | 0.71 | 0.00 | 0.71 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 209 | 12.93 | 0.71 | 0.00 | 0.71 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 210 | 12.98 | 0.72 | 0.00 | 0.72 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 211 | 13.03 | 0.72 | 0.00 | 0.72 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 212 | 13.04 | 0.72 | 0.00 | 0.72 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 213 | 13.07 | 0.72 | 0.00 | 0.72 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 214 | 13.13 | 0.72 | 0.00 | 0.72 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 215 | 13.17 | 0.73 | 0.00 | 0.73 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 216 | 13.22 | 0.73 | 0.00 | 0.73 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 217 | 13.27 | 0.73 | 0.00 | 0.73 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 218 | 13.32 | 0.74 | 0.00 | 0.74 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 219 | 13.37 | 0.74 | 0.00 | 0.74 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 220 | 13.41 | 0.74 | 0.00 | 0.74 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 221 | 13.46 | 0.74 | 0.00 | 0.74 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 222 | 13.51 | 0.75 | 0.00 | 0.75 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 223 | 13.56 | 0.75 | 0.00 | 0.75 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 224 | 13.60 | 0.75 | 0.00 | 0.75 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 225 | 13.66 | 0.76 | 0.00 | 0.76 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 226 | 13.75 | 0.76 | 0.00 | 0.76 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 227 | 13.80 | 0.76 | 0.00 | 0.76 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 228 | 13.89 | 0.77 | 0.00 | 0.77 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 229 | 13.94 | 0.77 | 0.00 | 0.77 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 230 | 13.99 | 0.78 | 0.00 | 0.78 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 231 | 14.09 | 0.78 | 0.00 | 0.78 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 232 | 14.14 | 0.78 | 0.00 | 0.78 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 233 | 14.23 | 0.79 | 0.00 | 0.79 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 234 | 14.28 | 0.79 | 0.00 | 0.79 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 235 | 14.38 | 0.80 | 0.00 | 0.80 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 236 | 14.42 | 0.80 | 0.00 | 0.80 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 237 | 14.52 | 0.81 | 0.00 | 0.81 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 238 | 14.57 | 0.81 | 0.00 | 0.81 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 239 | 14.67 | 0.82 | 0.00 | 0.82 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 240 | 14.68 | 0.82 | 0.00 | 0.82 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 241 | 14.70 | 0.82 | 0.00 | 0.82 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 242 | 14.75 | 0.82 | 0.00 | 0.82 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 243 | 14.80 | 0.82 | 0.00 | 0.82 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 244 | 14.89 | 0.83 | 0.00 | 0.83 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 245 | 14.94 | 0.83 | 0.00 | 0.83 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 246 | 15.04 | 0.84 | 0.00 | 0.84 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 247 | 15.13 | 0.84 | 0.00 | 0.84 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 248 | 15.21 | 0.85 | 0.00 | 0.85 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 249 | 15.28 | 0.85 | 0.00 | 0.85 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 250 | 15.38 | 0.86 | 0.00 | 0.86 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 251 | 15.47 | 0.86 | 0.00 | 0.86 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 252 | 15.57 | 0.87 | 0.00 | 0.87 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 253 | 15.67 | 0.87 | 0.00 | 0.87 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 254 | 15.77 | 0.88 | 0.00 | 0.88 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 255 | 15.86 | 0.89 | 0.00 | 0.89 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 256 | 15.96 | 0.89 | 0.00 | 0.89 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 257 | 16.05 | 0.90 | 0.00 | 0.90 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 258 | 16.15 | 0.90 | 0.00 | 0.90 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 259 | 16.25 | 0.91 | 0.00 | 0.91 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 260 | 16.31 | 0.91 | 0.00 | 0.91 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 261 | 16.39 | 0.91 | 0.00 | 0.91 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 262 | 16.48 | 0.92 | 0.00 | 0.92 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 263 | 16.59 | 0.93 | 0.00 | 0.93 | 0.97 | 0.263 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 264 | 16.68 | 0.93 | 0.00 | 0.93 | 0.96 | 0.263 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 265 | 16.76 | 0.94 | 0.00 | 0.94 | 0.96 | 0.263 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 266 | 16.86 | 0.94 | 0.00 | 0.94 | 0.96 | 0.263 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 267 | 16.92 | 0.94 | 0.00 | 0.94 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 268 | 17.02 | 0.95 | 0.00 | 0.95 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 269 | 17.11 | 0.96 | 0.00 | 0.96 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 270 | 17.22 | 0.96 | 0.00 | 0.96 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 271 | 17.35 | 0.97 | 0.00 | 0.97 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 272 | 17.45 | 0.97 | 0.00 | 0.97 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 273 | 17.55 | 0.98 | 0.00 | 0.98 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 274 | 17.61 | 0.98 | 0.00 | 0.98 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 275 | 17.64 | 0.99 | 0.00 | 0.99 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 276 | 17.70 | 0.99 | 0.00 | 0.99 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 277 | 17.75 | 0.99 | 0.00 | 0.99 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 278 | 17.80 | 1.00 | 0.00 | 1.00 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 279 | 17.85 | 1.00 | 0.00 | 1.00 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 280 | 17.94 | 1.00 | 0.00 | 1.00 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 281 | 17.99 | 1.01 | 0.00 | 1.01 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 282 | 18.09 | 1.01 | 0.00 | 1.01 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 283 | 18.15 | 1.02 | 0.00 | 1.02 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 284 | 18.23 | 1.02 | 0.00 | 1.02 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 285 | 18.33 | 1.03 | 0.00 | 1.03 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 286 | 18.43 | 1.03 | 0.00 | 1.03 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 287 | 18.52 | 1.04 | 0.00 | 1.04 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 288 | 18.59 | 1.04 | 0.00 | 1.04 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 289 | 18.72 | 1.05 | 0.00 | 1.05 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 290 | 18.81 | 1.05 | 0.00 | 1.05 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 291 | 18.87 | 1.06 | 0.00 | 1.06 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 292 | 18.95 | 1.06 | 0.00 | 1.06 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 293 | 19.05 | 1.07 | 0.00 | 1.07 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 294 | 19.14 | 1.07 | 0.00 | 1.07 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 295 | 19.22 | 1.08 | 0.00 | 1.08 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 296 | 19.29 | 1.08 | 0.00 | 1.08 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | Yes |
| 297 | 19.38 | 1.09 | 0.00 | 1.09 | 0.96 | 0.262 | 1.68 | 0.156 | 0.99 | 1.10 | 2.000 | Yes |
| 298 | 19.44 | 1.09 | 0.00 | 1.09 | 0.96 | 0.262 | 1.68 | 0.156 | 0.99 | 1.10 | 2.000 | Yes |
| 299 | 19.53 | 1.09 | 0.00 | 1.09 | 0.96 | 0.262 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | Yes |
| 300 | 19.62 | 1.10 | 0.00 | 1.10 | 0.96 | 0.261 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | Yes |
| 301 | 19.69 | 1.10 | 0.00 | 1.10 | 0.96 | 0.261 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | Yes |
| 302 | 19.79 | 1.11 | 0.00 | 1.11 | 0.96 | 0.261 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | No |
| 303 | 19.86 | 1.11 | 0.00 | 1.11 | 0.96 | 0.261 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | No |
| 304 | 19.97 | 1.12 | 0.00 | 1.12 | 0.96 | 0.261 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | No |
| 305 | 20.07 | 1.13 | 0.00 | 1.13 | 0.96 | 0.261 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | No |
| 306 | 20.16 | 1.13 | 0.00 | 1.13 | 0.96 | 0.261 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | No |
| 307 | 20.26 | 1.14 | 0.00 | 1.14 | 0.96 | 0.261 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | Yes |
| 308 | 20.34 | 1.14 | 0.00 | 1.14 | 0.96 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | Yes |
| 309 | 20.43 | 1.15 | 0.00 | 1.15 | 0.96 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | Yes |
| 310 | 20.50 | 1.15 | 0.00 | 1.15 | 0.96 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | Yes |
| 311 | 20.60 | 1.16 | 0.00 | 1.16 | 0.96 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | Yes |
| 312 | 20.62 | 1.16 | 0.00 | 1.16 | 0.96 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | Yes |
| 313 | 20.63 | 1.16 | 0.00 | 1.16 | 0.96 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | Yes |
| 314 | 20.68 | 1.16 | 0.00 | 1.16 | 0.96 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | Yes |
| 315 | 20.73 | 1.17 | 0.00 | 1.17 | 0.95 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | Yes |
| 316 | 20.82 | 1.17 | 0.00 | 1.17 | 0.95 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | Yes |
| 317 | 20.87 | 1.17 | 0.00 | 1.17 | 0.95 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | Yes |
| 318 | 20.91 | 1.18 | 0.00 | 1.18 | 0.95 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | Yes |
| 319 | 20.96 | 1.18 | 0.00 | 1.18 | 0.95 | 0.261 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | Yes |
| 320 | 21.05 | 1.19 | 0.00 | 1.19 | 0.95 | 0.260 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 321 | 21.11 | 1.19 | 0.00 | 1.19 | 0.95 | 0.260 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 322 | 21.17 | 1.19 | 0.00 | 1.19 | 0.95 | 0.260 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 323 | 21.25 | 1.20 | 0.00 | 1.20 | 0.95 | 0.260 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | Yes |
| 324 | 21.30 | 1.20 | 0.00 | 1.20 | 0.95 | 0.260 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | Yes |
| 325 | 21.37 | 1.20 | 0.00 | 1.20 | 0.95 | 0.260 | 1.68 | 0.155 | 0.97 | 1.10 | 2.000 | Yes |
| 326 | 21.45 | 1.21 | 0.00 | 1.21 | 0.95 | 0.260 | 1.68 | 0.155 | 0.97 | 1.10 | 2.000 | Yes |
| 327 | 21.49 | 1.21 | 0.00 | 1.21 | 0.95 | 0.260 | 1.68 | 0.155 | 0.97 | 1.10 | 2.000 | Yes |
| 328 | 21.58 | 1.22 | 0.00 | 1.22 | 0.95 | 0.260 | 1.68 | 0.155 | 0.97 | 1.10 | 2.000 | Yes |
| 329 | 21.64 | 1.22 | 0.00 | 1.22 | 0.95 | 0.260 | 1.68 | 0.155 | 0.97 | 1.10 | 2.000 | Yes |
| 330 | 21.69 | 1.22 | 0.00 | 1.22 | 0.95 | 0.260 | 1.68 | 0.155 | 0.97 | 1.10 | 2.000 | Yes |
| 331 | 21.78 | 1.23 | 0.00 | 1.23 | 0.95 | 0.260 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 332 | 21.83 | 1.23 | 0.00 | 1.23 | 0.95 | 0.260 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 333 | 21.89 | 1.24 | 0.00 | 1.24 | 0.95 | 0.260 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 334 | 21.98 | 1.24 | 0.00 | 1.24 | 0.95 | 0.260 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 335 | 22.03 | 1.25 | 0.00 | 1.25 | 0.95 | 0.260 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 336 | 22.12 | 1.25 | 0.00 | 1.25 | 0.95 | 0.260 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 337 | 22.22 | 1.26 | 0.00 | 1.26 | 0.95 | 0.260 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 338 | 22.26 | 1.26 | 0.00 | 1.26 | 0.95 | 0.260 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 339 | 22.36 | 1.27 | 0.00 | 1.27 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 340 | 22.41 | 1.27 | 0.00 | 1.27 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 341 | 22.51 | 1.28 | 0.00 | 1.28 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 342 | 22.60 | 1.28 | 0.00 | 1.28 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 343 | 22.70 | 1.29 | 0.00 | 1.29 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 344 | 22.75 | 1.29 | 0.00 | 1.29 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 345 | 22.84 | 1.30 | 0.00 | 1.30 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 346 | 22.89 | 1.30 | 0.00 | 1.30 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 347 | 22.90 | 1.30 | 0.00 | 1.30 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 348 | 22.94 | 1.30 | 0.00 | 1.30 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 349 | 23.00 | 1.31 | 0.00 | 1.31 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 350 | 23.08 | 1.31 | 0.00 | 1.31 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 351 | 23.13 | 1.31 | 0.00 | 1.31 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 352 | 23.20 | 1.32 | 0.00 | 1.32 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 353 | 23.27 | 1.32 | 0.00 | 1.32 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 354 | 23.33 | 1.33 | 0.00 | 1.33 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 355 | 23.42 | 1.33 | 0.00 | 1.33 | 0.95 | 0.259 | 1.68 | 0.154 | 0.95 | 1.10 | 2.000 | No |
| 356 | 23.48 | 1.34 | 0.00 | 1.34 | 0.95 | 0.259 | 1.68 | 0.154 | 0.95 | 1.10 | 2.000 | No |
| 357 | 23.57 | 1.34 | 0.00 | 1.34 | 0.95 | 0.258 | 1.68 | 0.154 | 0.95 | 1.10 | 2.000 | No |
| 358 | 23.61 | 1.34 | 0.00 | 1.34 | 0.95 | 0.258 | 1.68 | 0.154 | 0.95 | 1.10 | 2.000 | No |
| 359 | 23.66 | 1.35 | 0.00 | 1.35 | 0.95 | 0.258 | 1.68 | 0.154 | 0.95 | 1.10 | 2.000 | No |
| 360 | 23.73 | 1.35 | 0.00 | 1.35 | 0.95 | 0.258 | 1.68 | 0.154 | 0.95 | 1.10 | 2.000 | No |
| 361 | 23.80 | 1.36 | 0.00 | 1.36 | 0.95 | 0.258 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | No |
| 362 | 23.85 | 1.36 | 0.00 | 1.36 | 0.95 | 0.258 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | No |
| 363 | 23.94 | 1.36 | 0.00 | 1.36 | 0.95 | 0.258 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | No |
| 364 | 24.00 | 1.37 | 0.00 | 1.37 | 0.95 | 0.258 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | No |
| 365 | 24.09 | 1.37 | 0.00 | 1.37 | 0.94 | 0.258 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | No |
| 366 | 24.16 | 1.38 | 0.00 | 1.38 | 0.94 | 0.258 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | No |
| 367 | 24.24 | 1.38 | 0.00 | 1.38 | 0.94 | 0.258 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | No |
| 368 | 24.33 | 1.39 | 0.00 | 1.39 | 0.94 | 0.258 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | No |
| 369 | 24.43 | 1.40 | 0.00 | 1.40 | 0.94 | 0.258 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | No |
| 370 | 24.52 | 1.40 | 0.00 | 1.40 | 0.94 | 0.258 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | No |
| 371 | 24.58 | 1.40 | 0.00 | 1.40 | 0.94 | 0.258 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 372 | 24.59 | 1.40 | 0.00 | 1.40 | 0.94 | 0.258 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 373 | 24.63 | 1.41 | 0.00 | 1.41 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 374 | 24.68 | 1.41 | 0.00 | 1.41 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 375 | 24.77 | 1.42 | 0.00 | 1.42 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 376 | 24.82 | 1.42 | 0.00 | 1.42 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 377 | 24.92 | 1.42 | 0.00 | 1.42 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 378 | 25.01 | 1.43 | 0.00 | 1.43 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 379 | 25.06 | 1.43 | 0.00 | 1.43 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 380 | 25.16 | 1.44 | 0.00 | 1.44 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 381 | 25.25 | 1.45 | 0.00 | 1.45 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 382 | 25.30 | 1.45 | 0.00 | 1.45 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | No |
| 383 | 25.41 | 1.45 | 0.00 | 1.45 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | Yes |
| 384 | 25.49 | 1.46 | 0.00 | 1.46 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 385 | 25.55 | 1.46 | 0.00 | 1.46 | 0.94 | 0.257 | 1.68 | 0.153 | 0.94 | 1.10 | 2.000 | Yes |
| 386 | 25.64 | 1.47 | 0.00 | 1.47 | 0.94 | 0.256 | 1.68 | 0.152 | 0.94 | 1.10 | 2.000 | Yes |
| 387 | 25.70 | 1.47 | 0.00 | 1.47 | 0.94 | 0.256 | 1.68 | 0.152 | 0.94 | 1.10 | 2.000 | Yes |
| 388 | 25.79 | 1.48 | 0.00 | 1.48 | 0.94 | 0.256 | 1.68 | 0.152 | 0.94 | 1.10 | 2.000 | Yes |
| 389 | 25.89 | 1.48 | 0.00 | 1.48 | 0.94 | 0.256 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | Yes |
| 390 | 25.94 | 1.49 | 0.00 | 1.49 | 0.94 | 0.256 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | Yes |
| 391 | 26.02 | 1.49 | 0.00 | 1.49 | 0.94 | 0.256 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | Yes |
| 392 | 26.12 | 1.50 | 0.00 | 1.50 | 0.94 | 0.256 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | Yes |
| 393 | 26.17 | 1.50 | 0.00 | 1.50 | 0.94 | 0.256 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | Yes |
| 394 | 26.28 | 1.51 | 0.00 | 1.51 | 0.94 | 0.256 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | Yes |
| 395 | 26.36 | 1.51 | 0.00 | 1.51 | 0.94 | 0.256 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | Yes |
| 396 | 26.45 | 1.52 | 0.00 | 1.52 | 0.94 | 0.256 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | Yes |
| 397 | 26.50 | 1.52 | 0.00 | 1.52 | 0.94 | 0.256 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | Yes |
| 398 | 26.61 | 1.53 | 0.00 | 1.53 | 0.94 | 0.255 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | Yes |
| 399 | 26.70 | 1.53 | 0.00 | 1.53 | 0.94 | 0.255 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | No |
| 400 | 26.77 | 1.54 | 0.00 | 1.54 | 0.94 | 0.255 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | No |
| 401 | 26.85 | 1.54 | 0.00 | 1.54 | 0.93 | 0.255 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | No |
| 402 | 26.94 | 1.54 | 0.00 | 1.54 | 0.93 | 0.255 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | No |
| 403 | 27.04 | 1.55 | 0.00 | 1.55 | 0.93 | 0.255 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | No |
| 404 | 27.14 | 1.56 | 0.00 | 1.56 | 0.93 | 0.255 | 1.68 | 0.152 | 0.93 | 1.10 | 2.000 | No |
| 405 | 27.23 | 1.56 | 0.00 | 1.56 | 0.93 | 0.255 | 1.68 | 0.151 | 0.93 | 1.10 | 2.000 | No |
| 406 | 27.28 | 1.56 | 0.00 | 1.56 | 0.93 | 0.255 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 407 | 27.29 | 1.56 | 0.00 | 1.56 | 0.93 | 0.255 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 408 | 27.38 | 1.57 | 0.00 | 1.57 | 0.93 | 0.255 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 409 | 27.48 | 1.57 | 0.00 | 1.57 | 0.93 | 0.255 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 410 | 27.57 | 1.58 | 0.00 | 1.58 | 0.93 | 0.254 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 411 | 27.64 | 1.58 | 0.00 | 1.58 | 0.93 | 0.254 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 412 | 27.65 | 1.58 | 0.00 | 1.58 | 0.93 | 0.254 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 413 | 27.74 | 1.59 | 0.00 | 1.59 | 0.93 | 0.254 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 414 | 27.80 | 1.59 | 0.00 | 1.59 | 0.93 | 0.254 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 415 | 27.90 | 1.60 | 0.00 | 1.60 | 0.93 | 0.254 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 416 | 27.99 | 1.60 | 0.00 | 1.60 | 0.93 | 0.254 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 417 | 28.07 | 1.61 | 0.00 | 1.61 | 0.93 | 0.254 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 418 | 28.16 | 1.61 | 0.00 | 1.61 | 0.93 | 0.254 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 419 | 28.25 | 1.62 | 0.00 | 1.62 | 0.93 | 0.254 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 420 | 28.34 | 1.62 | 0.00 | 1.62 | 0.93 | 0.253 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 421 | 28.44 | 1.63 | 0.00 | 1.63 | 0.93 | 0.253 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 422 | 28.53 | 1.63 | 0.00 | 1.63 | 0.93 | 0.253 | 1.68 | 0.151 | 0.92 | 1.10 | 2.000 | No |
| 423 | 28.62 | 1.64 | 0.00 | 1.64 | 0.93 | 0.253 | 1.68 | 0.150 | 0.92 | 1.10 | 2.000 | No |
| 424 | 28.76 | 1.65 | 0.00 | 1.65 | 0.93 | 0.253 | 1.68 | 0.150 | 0.92 | 1.10 | 2.000 | No |
| 425 | 28.86 | 1.65 | 0.00 | 1.65 | 0.93 | 0.253 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | No |
| 426 | 28.96 | 1.66 | 0.00 | 1.66 | 0.93 | 0.253 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | No |
| 427 | 29.08 | 1.66 | 0.00 | 1.66 | 0.93 | 0.253 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | No |
| 428 | 29.19 | 1.67 | 0.00 | 1.67 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | No |
| 429 | 29.29 | 1.68 | 0.00 | 1.68 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | No |
| 430 | 29.39 | 1.68 | 0.00 | 1.68 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | No |
| 431 | 29.50 | 1.69 | 0.00 | 1.69 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | No |
| 432 | 29.63 | 1.70 | 0.00 | 1.70 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 433 | 29.65 | 1.70 | 0.00 | 1.70 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | Yes |
| 434 | 29.66 | 1.70 | 0.00 | 1.70 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | Yes |
| 435 | 29.72 | 1.70 | 0.00 | 1.70 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | Yes |
| 436 | 29.80 | 1.71 | 0.00 | 1.71 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | Yes |
| 437 | 29.85 | 1.71 | 0.00 | 1.71 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | Yes |
| 438 | 29.94 | 1.72 | 0.00 | 1.72 | 0.92 | 0.251 | 1.68 | 0.149 | 0.91 | 1.10 | 2.000 | Yes |
| 439 | 30.00 | 1.72 | 0.00 | 1.72 | 0.92 | 0.251 | 1.68 | 0.149 | 0.91 | 1.10 | 2.000 | Yes |
| 440 | 30.05 | 1.72 | 0.00 | 1.72 | 0.92 | 0.251 | 1.68 | 0.149 | 0.91 | 1.10 | 2.000 | Yes |
| 441 | 30.14 | 1.73 | 0.00 | 1.73 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | Yes |
| 442 | 30.19 | 1.73 | 0.01 | 1.73 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | Yes |
| 443 | 30.24 | 1.74 | 0.01 | 1.73 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 2.000 | Yes |
| 444 | 30.29 | 1.74 | 0.01 | 1.73 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 0.182 | No |
| 445 | 30.38 | 1.75 | 0.01 | 1.73 | 0.92 | 0.252 | 1.68 | 0.150 | 0.91 | 1.10 | 0.182 | No |
| 446 | 30.43 | 1.75 | 0.01 | 1.74 | 0.92 | 0.253 | 1.68 | 0.150 | 0.91 | 1.10 | 0.182 | No |
| 447 | 30.48 | 1.75 | 0.01 | 1.74 | 0.92 | 0.253 | 1.68 | 0.150 | 0.91 | 1.10 | 0.183 | No |
| 448 | 30.54 | 1.76 | 0.02 | 1.74 | 0.92 | 0.253 | 1.68 | 0.150 | 0.91 | 1.10 | 0.183 | No |
| 449 | 30.62 | 1.76 | 0.02 | 1.74 | 0.92 | 0.253 | 1.68 | 0.151 | 0.91 | 1.10 | 0.183 | No |
| 450 | 30.67 | 1.76 | 0.02 | 1.74 | 0.92 | 0.253 | 1.68 | 0.151 | 0.91 | 1.10 | 0.183 | No |
| 451 | 30.72 | 1.77 | 0.02 | 1.74 | 0.92 | 0.254 | 1.68 | 0.151 | 0.90 | 1.10 | 0.183 | No |
| 452 | 30.76 | 1.77 | 0.02 | 1.75 | 0.92 | 0.254 | 1.68 | 0.151 | 0.90 | 1.10 | 0.183 | No |
| 453 | 30.86 | 1.78 | 0.03 | 1.75 | 0.92 | 0.254 | 1.68 | 0.151 | 0.90 | 1.10 | 0.184 | No |
| 454 | 30.91 | 1.78 | 0.03 | 1.75 | 0.92 | 0.254 | 1.68 | 0.151 | 0.90 | 1.10 | 0.184 | No |
| 455 | 30.95 | 1.78 | 0.03 | 1.75 | 0.92 | 0.254 | 1.68 | 0.151 | 0.90 | 1.10 | 0.184 | No |
| 456 | 31.03 | 1.79 | 0.03 | 1.75 | 0.92 | 0.254 | 1.68 | 0.151 | 0.90 | 1.10 | 0.184 | No |
| 457 | 31.10 | 1.79 | 0.03 | 1.76 | 0.91 | 0.255 | 1.68 | 0.151 | 0.90 | 1.10 | 0.184 | No |
| 458 | 31.15 | 1.79 | 0.04 | 1.76 | 0.91 | 0.255 | 1.68 | 0.151 | 0.90 | 1.10 | 0.184 | No |
| 459 | 31.20 | 1.80 | 0.04 | 1.76 | 0.91 | 0.255 | 1.68 | 0.152 | 0.90 | 1.10 | 0.185 | No |
| 460 | 31.26 | 1.80 | 0.04 | 1.76 | 0.91 | 0.255 | 1.68 | 0.152 | 0.90 | 1.10 | 0.185 | No |
| 461 | 31.34 | 1.81 | 0.04 | 1.76 | 0.91 | 0.255 | 1.68 | 0.152 | 0.90 | 1.10 | 0.185 | No |
| 462 | 31.37 | 1.81 | 0.04 | 1.77 | 0.91 | 0.255 | 1.68 | 0.152 | 0.90 | 1.10 | 0.185 | No |
| 463 | 31.38 | 1.81 | 0.04 | 1.77 | 0.91 | 0.255 | 1.68 | 0.152 | 0.90 | 1.10 | 0.185 | No |
| 464 | 31.43 | 1.81 | 0.04 | 1.77 | 0.91 | 0.256 | 1.68 | 0.152 | 0.90 | 1.10 | 0.185 | No |
| 465 | 31.47 | 1.81 | 0.05 | 1.77 | 0.91 | 0.256 | 1.68 | 0.152 | 0.90 | 1.10 | 0.185 | No |
| 466 | 31.55 | 1.82 | 0.05 | 1.77 | 0.91 | 0.256 | 1.68 | 0.152 | 0.90 | 1.10 | 0.185 | No |
| 467 | 31.59 | 1.82 | 0.05 | 1.77 | 0.91 | 0.256 | 1.68 | 0.152 | 0.90 | 1.10 | 0.186 | No |
| 468 | 31.66 | 1.83 | 0.05 | 1.77 | 0.91 | 0.256 | 1.68 | 0.152 | 0.90 | 1.10 | 0.186 | No |
| 469 | 31.73 | 1.83 | 0.05 | 1.78 | 0.91 | 0.256 | 1.68 | 0.152 | 0.90 | 1.10 | 0.186 | No |
| 470 | 31.78 | 1.83 | 0.06 | 1.78 | 0.91 | 0.256 | 1.68 | 0.152 | 0.90 | 1.10 | 0.186 | No |
| 471 | 31.84 | 1.84 | 0.06 | 1.78 | 0.91 | 0.257 | 1.68 | 0.153 | 0.90 | 1.10 | 0.186 | No |
| 472 | 31.93 | 1.84 | 0.06 | 1.78 | 0.91 | 0.257 | 1.68 | 0.153 | 0.90 | 1.10 | 0.186 | No |
| 473 | 31.98 | 1.85 | 0.06 | 1.78 | 0.91 | 0.257 | 1.68 | 0.153 | 0.90 | 1.10 | 0.187 | No |
| 474 | 32.02 | 1.85 | 0.06 | 1.79 | 0.91 | 0.257 | 1.68 | 0.153 | 0.90 | 1.10 | 0.187 | No |
| 475 | 32.09 | 1.85 | 0.07 | 1.79 | 0.91 | 0.257 | 1.68 | 0.153 | 0.90 | 1.10 | 0.187 | No |
| 476 | 32.16 | 1.86 | 0.07 | 1.79 | 0.91 | 0.257 | 1.68 | 0.153 | 0.90 | 1.10 | 0.187 | No |
| 477 | 32.22 | 1.86 | 0.07 | 1.79 | 0.91 | 0.258 | 1.68 | 0.153 | 0.90 | 1.10 | 0.187 | No |
| 478 | 32.27 | 1.86 | 0.07 | 1.79 | 0.91 | 0.258 | 1.68 | 0.153 | 0.90 | 1.10 | 0.187 | No |
| 479 | 32.34 | 1.87 | 0.07 | 1.80 | 0.91 | 0.258 | 1.68 | 0.153 | 0.90 | 1.10 | 0.187 | No |
| 480 | 32.42 | 1.87 | 0.08 | 1.80 | 0.91 | 0.258 | 1.68 | 0.153 | 0.90 | 1.10 | 0.188 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 481 | 32.46 | 1.88 | 0.08 | 1.80 | 0.91 | 0.258 | 1.68 | 0.153 | 0.90 | 1.10 | 0.188 | No |
| 482 | 32.54 | 1.88 | 0.08 | 1.80 | 0.91 | 0.258 | 1.68 | 0.154 | 0.90 | 1.10 | 0.188 | No |
| 483 | 32.60 | 1.89 | 0.08 | 1.80 | 0.91 | 0.259 | 1.68 | 0.154 | 0.90 | 1.10 | 0.188 | No |
| 484 | 32.67 | 1.89 | 0.08 | 1.81 | 0.91 | 0.259 | 1.68 | 0.154 | 0.90 | 1.10 | 0.188 | No |
| 485 | 32.75 | 1.89 | 0.09 | 1.81 | 0.91 | 0.259 | 1.68 | 0.154 | 0.90 | 1.10 | 0.188 | No |
| 486 | 32.81 | 1.90 | 0.09 | 1.81 | 0.90 | 0.259 | 1.68 | 0.154 | 0.90 | 1.10 | 0.189 | No |
| 487 | 32.89 | 1.90 | 0.09 | 1.81 | 0.90 | 0.259 | 1.68 | 0.154 | 0.90 | 1.10 | 0.189 | No |
| 488 | 32.94 | 1.91 | 0.09 | 1.82 | 0.90 | 0.259 | 1.68 | 0.154 | 0.90 | 1.10 | 0.189 | No |
| 489 | 32.95 | 1.91 | 0.09 | 1.82 | 0.90 | 0.259 | 1.68 | 0.154 | 0.90 | 1.10 | 0.189 | No |
| 490 | 33.00 | 1.91 | 0.09 | 1.82 | 0.90 | 0.259 | 1.68 | 0.154 | 0.90 | 1.10 | 0.189 | No |
| 491 | 33.06 | 1.91 | 0.10 | 1.82 | 0.90 | 0.260 | 1.68 | 0.154 | 0.90 | 1.10 | 0.189 | No |
| 492 | 33.11 | 1.92 | 0.10 | 1.82 | 0.90 | 0.260 | 1.68 | 0.154 | 0.90 | 1.10 | 0.189 | No |
| 493 | 33.20 | 1.92 | 0.10 | 1.82 | 0.90 | 0.260 | 1.68 | 0.154 | 0.90 | 1.10 | 0.189 | No |
| 494 | 33.25 | 1.93 | 0.10 | 1.83 | 0.90 | 0.260 | 1.68 | 0.155 | 0.90 | 1.10 | 0.190 | No |
| 495 | 33.34 | 1.93 | 0.10 | 1.83 | 0.90 | 0.260 | 1.68 | 0.155 | 0.90 | 1.10 | 0.190 | No |
| 496 | 33.38 | 1.94 | 0.11 | 1.83 | 0.90 | 0.260 | 1.68 | 0.155 | 0.90 | 1.10 | 0.190 | No |
| 497 | 33.48 | 1.94 | 0.11 | 1.83 | 0.90 | 0.260 | 1.68 | 0.155 | 0.90 | 1.10 | 0.190 | No |
| 498 | 33.58 | 1.95 | 0.11 | 1.84 | 0.90 | 0.261 | 1.68 | 0.155 | 0.90 | 1.10 | 0.190 | No |
| 499 | 33.63 | 1.95 | 0.11 | 1.84 | 0.90 | 0.261 | 1.68 | 0.155 | 0.90 | 1.10 | 0.190 | No |
| 500 | 33.73 | 1.96 | 0.12 | 1.84 | 0.90 | 0.261 | 1.68 | 0.155 | 0.90 | 1.10 | 0.191 | No |
| 501 | 33.82 | 1.96 | 0.12 | 1.84 | 0.90 | 0.261 | 1.68 | 0.155 | 0.89 | 1.10 | 0.191 | No |
| 502 | 33.87 | 1.97 | 0.12 | 1.85 | 0.90 | 0.261 | 1.68 | 0.155 | 0.89 | 1.10 | 0.191 | No |
| 503 | 33.96 | 1.97 | 0.12 | 1.85 | 0.90 | 0.261 | 1.68 | 0.155 | 0.89 | 1.10 | 0.191 | No |
| 504 | 34.02 | 1.98 | 0.13 | 1.85 | 0.90 | 0.262 | 1.68 | 0.155 | 0.89 | 1.10 | 0.191 | No |
| 505 | 34.11 | 1.98 | 0.13 | 1.85 | 0.90 | 0.262 | 1.68 | 0.156 | 0.89 | 1.10 | 0.191 | No |
| 506 | 34.18 | 1.99 | 0.13 | 1.86 | 0.90 | 0.262 | 1.68 | 0.156 | 0.89 | 1.10 | 0.192 | No |
| 507 | 34.26 | 1.99 | 0.13 | 1.86 | 0.90 | 0.262 | 1.68 | 0.156 | 0.89 | 1.10 | 0.192 | No |
| 508 | 34.35 | 2.00 | 0.14 | 1.86 | 0.90 | 0.262 | 1.68 | 0.156 | 0.89 | 1.10 | 0.192 | No |
| 509 | 34.44 | 2.00 | 0.14 | 1.87 | 0.89 | 0.262 | 1.68 | 0.156 | 0.89 | 1.10 | 0.192 | No |
| 510 | 34.49 | 2.01 | 0.14 | 1.87 | 0.89 | 0.262 | 1.68 | 0.156 | 0.89 | 1.10 | 0.192 | No |
| 511 | 34.59 | 2.01 | 0.14 | 1.87 | 0.89 | 0.263 | 1.68 | 0.156 | 0.89 | 1.10 | 0.192 | No |
| 512 | 34.69 | 2.02 | 0.15 | 1.87 | 0.89 | 0.263 | 1.68 | 0.156 | 0.89 | 1.10 | 0.193 | No |
| 513 | 34.76 | 2.03 | 0.15 | 1.88 | 0.89 | 0.263 | 1.68 | 0.156 | 0.89 | 1.10 | 0.193 | No |
| 514 | 34.83 | 2.03 | 0.15 | 1.88 | 0.89 | 0.263 | 1.68 | 0.156 | 0.89 | 1.10 | 0.193 | No |
| 515 | 34.93 | 2.04 | 0.15 | 1.88 | 0.89 | 0.263 | 1.68 | 0.156 | 0.89 | 1.10 | 0.193 | No |
| 516 | 35.02 | 2.04 | 0.16 | 1.89 | 0.89 | 0.263 | 1.68 | 0.157 | 0.89 | 1.10 | 0.193 | No |
| 517 | 35.12 | 2.05 | 0.16 | 1.89 | 0.89 | 0.263 | 1.68 | 0.157 | 0.89 | 1.10 | 0.193 | No |
| 518 | 35.22 | 2.06 | 0.16 | 1.89 | 0.89 | 0.264 | 1.68 | 0.157 | 0.89 | 1.10 | 0.194 | No |
| 519 | 35.30 | 2.06 | 0.17 | 1.90 | 0.89 | 0.264 | 1.68 | 0.157 | 0.89 | 1.10 | 0.194 | No |
| 520 | 35.38 | 2.07 | 0.17 | 1.90 | 0.89 | 0.264 | 1.68 | 0.157 | 0.89 | 1.10 | 0.194 | No |
| 521 | 35.43 | 2.07 | 0.17 | 1.90 | 0.89 | 0.264 | 1.68 | 0.157 | 0.89 | 1.10 | 0.194 | No |
| 522 | 35.46 | 2.07 | 0.17 | 1.90 | 0.89 | 0.264 | 1.68 | 0.157 | 0.89 | 1.10 | 0.194 | No |
| 523 | 35.51 | 2.08 | 0.17 | 1.90 | 0.89 | 0.264 | 1.68 | 0.157 | 0.89 | 1.10 | 2.000 | Yes |
| 524 | 35.56 | 2.08 | 0.17 | 1.90 | 0.89 | 0.264 | 1.68 | 0.157 | 0.89 | 1.10 | 2.000 | Yes |
| 525 | 35.66 | 2.08 | 0.18 | 1.91 | 0.89 | 0.264 | 1.68 | 0.157 | 0.89 | 1.10 | 2.000 | Yes |
| 526 | 35.70 | 2.09 | 0.18 | 1.91 | 0.89 | 0.264 | 1.68 | 0.157 | 0.89 | 1.10 | 2.000 | Yes |
| 527 | 35.80 | 2.09 | 0.18 | 1.91 | 0.88 | 0.264 | 1.68 | 0.157 | 0.89 | 1.10 | 2.000 | Yes |
| 528 | 35.89 | 2.10 | 0.18 | 1.92 | 0.88 | 0.265 | 1.68 | 0.157 | 0.89 | 1.10 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 529 | 35.96 | 2.10 | 0.19 | 1.92 | 0.88 | 0.265 | 1.68 | 0.157 | 0.89 | 1.10 | 2.000 | Yes |
| 530 | 36.04 | 2.11 | 0.19 | 1.92 | 0.88 | 0.265 | 1.68 | 0.157 | 0.89 | 1.10 | 2.000 | Yes |
| 531 | 36.14 | 2.12 | 0.19 | 1.92 | 0.88 | 0.265 | 1.68 | 0.157 | 0.89 | 1.10 | 2.000 | Yes |
| 532 | 36.19 | 2.12 | 0.19 | 1.93 | 0.88 | 0.265 | 1.68 | 0.157 | 0.89 | 1.10 | 2.000 | Yes |
| 533 | 36.28 | 2.12 | 0.20 | 1.93 | 0.88 | 0.265 | 1.68 | 0.158 | 0.89 | 1.10 | 2.000 | Yes |
| 534 | 36.33 | 2.13 | 0.20 | 1.93 | 0.88 | 0.265 | 1.68 | 0.158 | 0.89 | 1.10 | 0.195 | No |
| 535 | 36.42 | 2.13 | 0.20 | 1.93 | 0.88 | 0.265 | 1.68 | 0.158 | 0.89 | 1.10 | 0.196 | No |
| 536 | 36.48 | 2.14 | 0.20 | 1.93 | 0.88 | 0.265 | 1.68 | 0.158 | 0.89 | 1.10 | 0.196 | No |
| 537 | 36.52 | 2.14 | 0.20 | 1.94 | 0.88 | 0.265 | 1.68 | 0.158 | 0.89 | 1.10 | 0.196 | No |
| 538 | 36.62 | 2.14 | 0.21 | 1.94 | 0.88 | 0.265 | 1.68 | 0.158 | 0.89 | 1.10 | 0.196 | No |
| 539 | 36.68 | 2.15 | 0.21 | 1.94 | 0.88 | 0.266 | 1.68 | 0.158 | 0.89 | 1.10 | 0.196 | No |
| 540 | 36.77 | 2.15 | 0.21 | 1.94 | 0.88 | 0.266 | 1.68 | 0.158 | 0.89 | 1.10 | 0.196 | No |
| 541 | 36.86 | 2.16 | 0.21 | 1.95 | 0.88 | 0.266 | 1.68 | 0.158 | 0.89 | 1.10 | 2.000 | Yes |
| 542 | 36.90 | 2.16 | 0.22 | 1.95 | 0.88 | 0.266 | 1.68 | 0.158 | 0.89 | 1.10 | 2.000 | Yes |
| 543 | 37.00 | 2.17 | 0.22 | 1.95 | 0.88 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 2.000 | Yes |
| 544 | 37.10 | 2.17 | 0.22 | 1.95 | 0.88 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 2.000 | Yes |
| 545 | 37.20 | 2.18 | 0.22 | 1.96 | 0.87 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 2.000 | Yes |
| 546 | 37.29 | 2.19 | 0.23 | 1.96 | 0.87 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 2.000 | Yes |
| 547 | 37.39 | 2.19 | 0.23 | 1.96 | 0.87 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 2.000 | Yes |
| 548 | 37.49 | 2.20 | 0.23 | 1.97 | 0.87 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 0.197 | No |
| 549 | 37.53 | 2.20 | 0.24 | 1.97 | 0.87 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 0.197 | No |
| 550 | 37.58 | 2.21 | 0.24 | 1.97 | 0.87 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 0.197 | No |
| 551 | 37.62 | 2.21 | 0.24 | 1.97 | 0.87 | 0.266 | 1.68 | 0.158 | 0.88 | 1.10 | 0.197 | No |
| 552 | 37.69 | 2.21 | 0.24 | 1.97 | 0.87 | 0.267 | 1.68 | 0.158 | 0.88 | 1.10 | 0.197 | No |
| 553 | 37.77 | 2.22 | 0.24 | 1.98 | 0.87 | 0.267 | 1.68 | 0.158 | 0.88 | 1.10 | 0.198 | No |
| 554 | 37.82 | 2.22 | 0.24 | 1.98 | 0.87 | 0.267 | 1.68 | 0.158 | 0.88 | 1.10 | 0.198 | No |
| 555 | 37.87 | 2.22 | 0.25 | 1.98 | 0.87 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.198 | No |
| 556 | 37.91 | 2.23 | 0.25 | 1.98 | 0.87 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.198 | No |
| 557 | 37.97 | 2.23 | 0.25 | 1.98 | 0.87 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.198 | No |
| 558 | 38.06 | 2.24 | 0.25 | 1.99 | 0.87 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.198 | No |
| 559 | 38.10 | 2.24 | 0.25 | 1.99 | 0.87 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.198 | No |
| 560 | 38.17 | 2.24 | 0.25 | 1.99 | 0.87 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.198 | No |
| 561 | 38.25 | 2.25 | 0.26 | 1.99 | 0.87 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.198 | No |
| 562 | 38.35 | 2.26 | 0.26 | 2.00 | 0.87 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.198 | No |
| 563 | 38.40 | 2.26 | 0.26 | 2.00 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.198 | No |
| 564 | 38.46 | 2.26 | 0.26 | 2.00 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.198 | No |
| 565 | 38.54 | 2.27 | 0.27 | 2.00 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.198 | No |
| 566 | 38.60 | 2.27 | 0.27 | 2.00 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.198 | No |
| 567 | 38.69 | 2.28 | 0.27 | 2.01 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 568 | 38.74 | 2.28 | 0.27 | 2.01 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 569 | 38.83 | 2.29 | 0.28 | 2.01 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 570 | 38.88 | 2.29 | 0.28 | 2.01 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 571 | 38.97 | 2.30 | 0.28 | 2.02 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 572 | 39.02 | 2.30 | 0.28 | 2.02 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 573 | 39.11 | 2.31 | 0.28 | 2.02 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 574 | 39.16 | 2.31 | 0.29 | 2.02 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 575 | 39.23 | 2.31 | 0.29 | 2.03 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 576 | 39.24 | 2.31 | 0.29 | 2.03 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 577 | 39.28 | 2.32 | 0.29 | 2.03 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 578 | 39.32 | 2.32 | 0.29 | 2.03 | 0.86 | 0.267 | 1.68 | 0.159 | 0.88 | 1.10 | 0.199 | No |
| 579 | 39.39 | 2.32 | 0.29 | 2.03 | 0.86 | 0.268 | 1.68 | 0.159 | 0.88 | 1.10 | 2.000 | Yes |
| 580 | 39.47 | 2.33 | 0.30 | 2.03 | 0.86 | 0.268 | 1.68 | 0.159 | 0.88 | 1.10 | 2.000 | Yes |
| 581 | 39.54 | 2.33 | 0.30 | 2.04 | 0.86 | 0.268 | 1.68 | 0.159 | 0.88 | 1.10 | 2.000 | Yes |
| 582 | 39.62 | 2.34 | 0.30 | 2.04 | 0.85 | 0.268 | 1.68 | 0.159 | 0.88 | 1.10 | 2.000 | Yes |
| 583 | 39.71 | 2.34 | 0.30 | 2.04 | 0.85 | 0.268 | 1.68 | 0.159 | 0.88 | 1.10 | 2.000 | Yes |
| 584 | 39.76 | 2.35 | 0.30 | 2.04 | 0.85 | 0.268 | 1.68 | 0.159 | 0.88 | 1.10 | 2.000 | Yes |
| 585 | 39.85 | 2.35 | 0.31 | 2.05 | 0.85 | 0.268 | 1.68 | 0.159 | 0.88 | 1.10 | 2.000 | Yes |
| 586 | 39.90 | 2.36 | 0.31 | 2.05 | 0.85 | 0.268 | 1.68 | 0.159 | 0.88 | 1.10 | 2.000 | Yes |
| 587 | 40.00 | 2.36 | 0.31 | 2.05 | 0.85 | 0.268 | 1.68 | 0.159 | 0.88 | 1.10 | 2.000 | Yes |
| 588 | 40.06 | 2.37 | 0.31 | 2.05 | 0.85 | 0.268 | 1.68 | 0.159 | 0.88 | 1.10 | 2.000 | Yes |
| 589 | 40.15 | 2.37 | 0.32 | 2.05 | 0.85 | 0.268 | 1.68 | 0.159 | 0.88 | 1.10 | 2.000 | Yes |
| 590 | 40.21 | 2.38 | 0.32 | 2.06 | 0.85 | 0.268 | 1.68 | 0.159 | 0.88 | 1.10 | 2.000 | Yes |
| 591 | 40.29 | 2.38 | 0.32 | 2.06 | 0.85 | 0.268 | 1.68 | 0.159 | 0.88 | 1.10 | 2.000 | Yes |
| 592 | 40.35 | 2.38 | 0.32 | 2.06 | 0.85 | 0.268 | 1.68 | 0.159 | 0.88 | 1.10 | 2.000 | Yes |
| 593 | 40.43 | 2.39 | 0.33 | 2.06 | 0.85 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 2.000 | Yes |
| 594 | 40.52 | 2.39 | 0.33 | 2.07 | 0.85 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 2.000 | Yes |
| 595 | 40.58 | 2.40 | 0.33 | 2.07 | 0.85 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 2.000 | Yes |
| 596 | 40.67 | 2.40 | 0.33 | 2.07 | 0.85 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 2.000 | Yes |
| 597 | 40.77 | 2.41 | 0.34 | 2.07 | 0.84 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 2.000 | Yes |
| 598 | 40.84 | 2.41 | 0.34 | 2.08 | 0.84 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 2.000 | Yes |
| 599 | 40.89 | 2.42 | 0.34 | 2.08 | 0.84 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 2.000 | Yes |
| 600 | 40.94 | 2.42 | 0.34 | 2.08 | 0.84 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 2.000 | Yes |
| 601 | 41.03 | 2.43 | 0.34 | 2.08 | 0.84 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 2.000 | Yes |
| 602 | 41.08 | 2.43 | 0.35 | 2.08 | 0.84 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 2.000 | Yes |
| 603 | 41.14 | 2.43 | 0.35 | 2.09 | 0.84 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 2.000 | Yes |
| 604 | 41.22 | 2.44 | 0.35 | 2.09 | 0.84 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 2.000 | Yes |
| 605 | 41.28 | 2.44 | 0.35 | 2.09 | 0.84 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 606 | 41.33 | 2.44 | 0.35 | 2.09 | 0.84 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 607 | 41.42 | 2.45 | 0.36 | 2.09 | 0.84 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 608 | 41.47 | 2.45 | 0.36 | 2.10 | 0.84 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 609 | 41.52 | 2.46 | 0.36 | 2.10 | 0.84 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 610 | 41.62 | 2.46 | 0.36 | 2.10 | 0.84 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 611 | 41.67 | 2.47 | 0.36 | 2.10 | 0.84 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 612 | 41.76 | 2.47 | 0.37 | 2.10 | 0.84 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 613 | 41.82 | 2.48 | 0.37 | 2.11 | 0.83 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 614 | 41.90 | 2.48 | 0.37 | 2.11 | 0.83 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 615 | 41.99 | 2.49 | 0.37 | 2.11 | 0.83 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 616 | 42.05 | 2.49 | 0.38 | 2.11 | 0.83 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 617 | 42.15 | 2.50 | 0.38 | 2.12 | 0.83 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 618 | 42.23 | 2.50 | 0.38 | 2.12 | 0.83 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 619 | 42.30 | 2.51 | 0.38 | 2.12 | 0.83 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 620 | 42.38 | 2.51 | 0.39 | 2.13 | 0.83 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 621 | 42.48 | 2.52 | 0.39 | 2.13 | 0.83 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 622 | 42.57 | 2.52 | 0.39 | 2.13 | 0.83 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 623 | 42.64 | 2.53 | 0.39 | 2.13 | 0.83 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 624 | 42.72 | 2.53 | 0.40 | 2.14 | 0.83 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 625 | 42.82 | 2.54 | 0.40 | 2.14 | 0.83 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 626 | 42.90 | 2.55 | 0.40 | 2.14 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 627 | 42.97 | 2.55 | 0.40 | 2.15 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 628 | 43.06 | 2.56 | 0.41 | 2.15 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 629 | 43.15 | 2.56 | 0.41 | 2.15 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 630 | 43.20 | 2.56 | 0.41 | 2.15 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 631 | 43.30 | 2.57 | 0.41 | 2.16 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 632 | 43.40 | 2.58 | 0.42 | 2.16 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 633 | 43.48 | 2.58 | 0.42 | 2.16 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 634 | 43.51 | 2.58 | 0.42 | 2.16 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 635 | 43.52 | 2.58 | 0.42 | 2.16 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 636 | 43.56 | 2.59 | 0.42 | 2.16 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 637 | 43.61 | 2.59 | 0.42 | 2.17 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 638 | 43.67 | 2.59 | 0.43 | 2.17 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 639 | 43.72 | 2.60 | 0.43 | 2.17 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 640 | 43.80 | 2.60 | 0.43 | 2.17 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 641 | 43.85 | 2.61 | 0.43 | 2.17 | 0.82 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 642 | 43.90 | 2.61 | 0.43 | 2.18 | 0.81 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 643 | 43.94 | 2.61 | 0.43 | 2.18 | 0.81 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 644 | 43.99 | 2.62 | 0.44 | 2.18 | 0.81 | 0.267 | 1.68 | 0.158 | 0.87 | 1.10 | 0.201 | No |
| 645 | 44.08 | 2.62 | 0.44 | 2.18 | 0.81 | 0.267 | 1.68 | 0.158 | 0.87 | 1.10 | 0.201 | No |
| 646 | 44.14 | 2.62 | 0.44 | 2.18 | 0.81 | 0.267 | 1.68 | 0.158 | 0.87 | 1.10 | 0.201 | No |
| 647 | 44.22 | 2.63 | 0.44 | 2.19 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 648 | 44.28 | 2.63 | 0.45 | 2.19 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 649 | 44.33 | 2.64 | 0.45 | 2.19 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 650 | 44.40 | 2.64 | 0.45 | 2.19 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 651 | 44.48 | 2.65 | 0.45 | 2.20 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 652 | 44.52 | 2.65 | 0.45 | 2.20 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 653 | 44.61 | 2.66 | 0.46 | 2.20 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 654 | 44.72 | 2.66 | 0.46 | 2.20 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 655 | 44.77 | 2.67 | 0.46 | 2.21 | 0.81 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 656 | 44.91 | 2.67 | 0.47 | 2.21 | 0.80 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 657 | 44.95 | 2.68 | 0.47 | 2.21 | 0.80 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 658 | 45.02 | 2.68 | 0.47 | 2.21 | 0.80 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 659 | 45.04 | 2.68 | 0.47 | 2.21 | 0.80 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 660 | 45.06 | 2.69 | 0.47 | 2.22 | 0.80 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 661 | 45.11 | 2.69 | 0.47 | 2.22 | 0.80 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 662 | 45.15 | 2.69 | 0.47 | 2.22 | 0.80 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 663 | 45.21 | 2.69 | 0.47 | 2.22 | 0.80 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 664 | 45.25 | 2.70 | 0.48 | 2.22 | 0.80 | 0.266 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 665 | 45.30 | 2.70 | 0.48 | 2.22 | 0.80 | 0.265 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 666 | 45.35 | 2.70 | 0.48 | 2.23 | 0.80 | 0.265 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 667 | 45.41 | 2.71 | 0.48 | 2.23 | 0.80 | 0.265 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 668 | 45.49 | 2.71 | 0.48 | 2.23 | 0.80 | 0.265 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 669 | 45.55 | 2.72 | 0.49 | 2.23 | 0.80 | 0.265 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 670 | 45.63 | 2.72 | 0.49 | 2.24 | 0.80 | 0.265 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 671 | 45.69 | 2.73 | 0.49 | 2.24 | 0.80 | 0.265 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |
| 672 | 45.78 | 2.73 | 0.49 | 2.24 | 0.80 | 0.265 | 1.68 | 0.158 | 0.86 | 1.10 | 0.201 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 673 | 45.84 | 2.74 | 0.49 | 2.24 | 0.80 | 0.265 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 674 | 45.93 | 2.74 | 0.50 | 2.25 | 0.79 | 0.265 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 675 | 46.02 | 2.75 | 0.50 | 2.25 | 0.79 | 0.265 | 1.68 | 0.157 | 0.86 | 1.10 | 2.000 | Yes |
| 676 | 46.08 | 2.75 | 0.50 | 2.25 | 0.79 | 0.265 | 1.68 | 0.157 | 0.86 | 1.10 | 2.000 | Yes |
| 677 | 46.16 | 2.76 | 0.50 | 2.25 | 0.79 | 0.265 | 1.68 | 0.157 | 0.86 | 1.10 | 2.000 | Yes |
| 678 | 46.24 | 2.76 | 0.51 | 2.26 | 0.79 | 0.265 | 1.68 | 0.157 | 0.86 | 1.10 | 2.000 | Yes |
| 679 | 46.31 | 2.77 | 0.51 | 2.26 | 0.79 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 2.000 | Yes |
| 680 | 46.41 | 2.77 | 0.51 | 2.26 | 0.79 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 2.000 | Yes |
| 681 | 46.48 | 2.78 | 0.51 | 2.26 | 0.79 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 2.000 | Yes |
| 682 | 46.56 | 2.78 | 0.52 | 2.27 | 0.79 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 2.000 | Yes |
| 683 | 46.65 | 2.79 | 0.52 | 2.27 | 0.79 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 2.000 | Yes |
| 684 | 46.75 | 2.79 | 0.52 | 2.27 | 0.79 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 2.000 | Yes |
| 685 | 46.84 | 2.80 | 0.53 | 2.27 | 0.78 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 2.000 | Yes |
| 686 | 46.94 | 2.81 | 0.53 | 2.28 | 0.78 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 687 | 47.02 | 2.81 | 0.53 | 2.28 | 0.78 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 688 | 47.08 | 2.81 | 0.53 | 2.28 | 0.78 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 689 | 47.12 | 2.82 | 0.53 | 2.28 | 0.78 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 690 | 47.16 | 2.82 | 0.54 | 2.28 | 0.78 | 0.263 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 691 | 47.21 | 2.82 | 0.54 | 2.28 | 0.78 | 0.263 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 692 | 47.27 | 2.82 | 0.54 | 2.29 | 0.78 | 0.263 | 1.68 | 0.157 | 0.86 | 1.10 | 0.201 | No |
| 693 | 47.35 | 2.83 | 0.54 | 2.29 | 0.78 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.201 | No |
| 694 | 47.40 | 2.83 | 0.54 | 2.29 | 0.78 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.201 | No |
| 695 | 47.50 | 2.84 | 0.55 | 2.29 | 0.78 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.201 | No |
| 696 | 47.55 | 2.84 | 0.55 | 2.29 | 0.78 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.201 | No |
| 697 | 47.61 | 2.84 | 0.55 | 2.29 | 0.78 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.201 | No |
| 698 | 47.69 | 2.85 | 0.55 | 2.30 | 0.78 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.201 | No |
| 699 | 47.76 | 2.85 | 0.55 | 2.30 | 0.78 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.201 | No |
| 700 | 47.83 | 2.85 | 0.56 | 2.30 | 0.77 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.201 | No |
| 701 | 47.93 | 2.86 | 0.56 | 2.30 | 0.77 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.201 | No |
| 702 | 48.02 | 2.87 | 0.56 | 2.30 | 0.77 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.201 | No |
| 703 | 48.09 | 2.87 | 0.56 | 2.30 | 0.77 | 0.262 | 1.68 | 0.156 | 0.86 | 1.10 | 0.201 | No |
| 704 | 48.18 | 2.87 | 0.57 | 2.31 | 0.77 | 0.262 | 1.68 | 0.156 | 0.86 | 1.10 | 0.200 | No |
| 705 | 48.27 | 2.88 | 0.57 | 2.31 | 0.77 | 0.262 | 1.68 | 0.156 | 0.86 | 1.10 | 0.200 | No |
| 706 | 48.37 | 2.88 | 0.57 | 2.31 | 0.77 | 0.262 | 1.68 | 0.156 | 0.86 | 1.10 | 0.200 | No |
| 707 | 48.46 | 2.89 | 0.58 | 2.31 | 0.77 | 0.262 | 1.68 | 0.156 | 0.86 | 1.10 | 0.200 | No |
| 708 | 48.52 | 2.89 | 0.58 | 2.31 | 0.77 | 0.262 | 1.68 | 0.156 | 0.86 | 1.10 | 0.200 | No |
| 709 | 48.60 | 2.90 | 0.58 | 2.32 | 0.77 | 0.262 | 1.68 | 0.156 | 0.85 | 1.10 | 0.200 | No |
| 710 | 48.70 | 2.90 | 0.58 | 2.32 | 0.77 | 0.262 | 1.68 | 0.156 | 0.85 | 1.10 | 0.200 | No |
| 711 | 48.79 | 2.91 | 0.59 | 2.32 | 0.77 | 0.262 | 1.68 | 0.156 | 0.85 | 1.10 | 0.200 | No |
| 712 | 48.85 | 2.91 | 0.59 | 2.32 | 0.76 | 0.262 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 713 | 48.94 | 2.92 | 0.59 | 2.32 | 0.76 | 0.261 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 714 | 49.04 | 2.92 | 0.59 | 2.33 | 0.76 | 0.261 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 715 | 49.13 | 2.93 | 0.60 | 2.33 | 0.76 | 0.261 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 716 | 49.23 | 2.93 | 0.60 | 2.33 | 0.76 | 0.261 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 717 | 49.33 | 2.94 | 0.60 | 2.33 | 0.76 | 0.261 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 718 | 49.38 | 2.94 | 0.60 | 2.34 | 0.76 | 0.261 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 719 | 49.42 | 2.94 | 0.61 | 2.34 | 0.76 | 0.261 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 720 | 49.48 | 2.95 | 0.61 | 2.34 | 0.76 | 0.261 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 721 | 49.53 | 2.95 | 0.61 | 2.34 | 0.76 | 0.261 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 722 | 49.58 | 2.95 | 0.61 | 2.34 | 0.76 | 0.261 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 723 | 49.63 | 2.96 | 0.61 | 2.34 | 0.76 | 0.261 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 724 | 49.72 | 2.96 | 0.62 | 2.35 | 0.76 | 0.260 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 725 | 49.77 | 2.96 | 0.62 | 2.35 | 0.76 | 0.260 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 726 | 49.83 | 2.97 | 0.62 | 2.35 | 0.75 | 0.260 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 727 | 49.92 | 2.97 | 0.62 | 2.35 | 0.75 | 0.260 | 1.68 | 0.155 | 0.85 | 1.10 | 0.200 | No |
| 728 | 49.97 | 2.98 | 0.62 | 2.35 | 0.75 | 0.260 | 1.68 | 0.155 | 0.85 | 1.10 | 0.199 | No |
| 729 | 50.04 | 2.98 | 0.63 | 2.36 | 0.75 | 0.260 | 1.68 | 0.154 | 0.85 | 1.10 | 0.199 | No |
| 730 | 50.11 | 2.99 | 0.63 | 2.36 | 0.75 | 0.260 | 1.68 | 0.154 | 0.85 | 1.10 | 0.199 | No |
| 731 | 50.20 | 2.99 | 0.63 | 2.36 | 0.75 | 0.260 | 1.68 | 0.154 | 0.85 | 1.10 | 0.199 | No |
| 732 | 50.27 | 3.00 | 0.63 | 2.36 | 0.75 | 0.260 | 1.68 | 0.154 | 0.85 | 1.10 | 0.199 | No |
| 733 | 50.34 | 3.00 | 0.63 | 2.36 | 0.75 | 0.259 | 1.68 | 0.154 | 0.85 | 1.10 | 0.199 | No |
| 734 | 50.45 | 3.01 | 0.64 | 2.37 | 0.75 | 0.259 | 1.68 | 0.154 | 0.85 | 1.10 | 0.199 | No |
| 735 | 50.54 | 3.01 | 0.64 | 2.37 | 0.75 | 0.259 | 1.68 | 0.154 | 0.85 | 1.10 | 0.199 | No |
| 736 | 50.59 | 3.01 | 0.64 | 2.37 | 0.75 | 0.259 | 1.68 | 0.154 | 0.85 | 1.10 | 0.199 | No |
| 737 | 50.68 | 3.02 | 0.65 | 2.37 | 0.75 | 0.259 | 1.68 | 0.154 | 0.85 | 1.10 | 0.199 | No |
| 738 | 50.79 | 3.03 | 0.65 | 2.38 | 0.74 | 0.259 | 1.68 | 0.154 | 0.85 | 1.10 | 0.199 | No |
| 739 | 50.88 | 3.03 | 0.65 | 2.38 | 0.74 | 0.259 | 1.68 | 0.154 | 0.85 | 1.10 | 0.199 | No |
| 740 | 50.98 | 3.04 | 0.65 | 2.38 | 0.74 | 0.259 | 1.68 | 0.154 | 0.85 | 1.10 | 0.199 | No |
| 741 | 51.07 | 3.04 | 0.66 | 2.38 | 0.74 | 0.258 | 1.68 | 0.154 | 0.85 | 1.10 | 0.199 | No |
| 742 | 51.17 | 3.05 | 0.66 | 2.39 | 0.74 | 0.258 | 1.68 | 0.153 | 0.85 | 1.10 | 0.199 | No |
| 743 | 51.24 | 3.05 | 0.66 | 2.39 | 0.74 | 0.258 | 1.68 | 0.153 | 0.85 | 1.10 | 0.199 | No |
| 744 | 51.33 | 3.06 | 0.67 | 2.39 | 0.74 | 0.258 | 1.68 | 0.153 | 0.85 | 1.10 | 0.199 | No |
| 745 | 51.46 | 3.06 | 0.67 | 2.39 | 0.74 | 0.258 | 1.68 | 0.153 | 0.85 | 1.10 | 0.198 | No |
| 746 | 51.46 | 3.06 | 0.67 | 2.39 | 0.74 | 0.258 | 1.68 | 0.153 | 0.85 | 1.10 | 0.198 | No |
| 747 | 51.51 | 3.07 | 0.67 | 2.40 | 0.74 | 0.258 | 1.68 | 0.153 | 0.85 | 1.10 | 0.198 | No |
| 748 | 51.56 | 3.07 | 0.67 | 2.40 | 0.74 | 0.258 | 1.68 | 0.153 | 0.85 | 1.10 | 0.198 | No |
| 749 | 51.65 | 3.07 | 0.68 | 2.40 | 0.74 | 0.258 | 1.68 | 0.153 | 0.85 | 1.10 | 0.198 | No |
| 750 | 51.71 | 3.08 | 0.68 | 2.40 | 0.74 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.198 | No |
| 751 | 51.79 | 3.08 | 0.68 | 2.40 | 0.73 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.198 | No |
| 752 | 51.85 | 3.09 | 0.68 | 2.40 | 0.73 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.198 | No |
| 753 | 51.94 | 3.09 | 0.68 | 2.41 | 0.73 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.198 | No |
| 754 | 51.99 | 3.09 | 0.69 | 2.41 | 0.73 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.198 | No |
| 755 | 52.09 | 3.10 | 0.69 | 2.41 | 0.73 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.198 | No |
| 756 | 52.19 | 3.11 | 0.69 | 2.41 | 0.73 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.198 | No |
| 757 | 52.28 | 3.11 | 0.70 | 2.42 | 0.73 | 0.257 | 1.68 | 0.152 | 0.85 | 1.10 | 0.198 | No |
| 758 | 52.35 | 3.12 | 0.70 | 2.42 | 0.73 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.198 | No |
| 759 | 52.43 | 3.12 | 0.70 | 2.42 | 0.73 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.198 | No |
| 760 | 52.52 | 3.13 | 0.70 | 2.42 | 0.73 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.198 | No |
| 761 | 52.62 | 3.13 | 0.71 | 2.43 | 0.73 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.198 | No |
| 762 | 52.72 | 3.14 | 0.71 | 2.43 | 0.73 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.198 | No |
| 763 | 52.81 | 3.14 | 0.71 | 2.43 | 0.72 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.197 | No |
| 764 | 52.91 | 3.15 | 0.71 | 2.44 | 0.72 | 0.255 | 1.68 | 0.152 | 0.85 | 1.10 | 0.197 | No |
| 765 | 53.00 | 3.16 | 0.72 | 2.44 | 0.72 | 0.255 | 1.68 | 0.152 | 0.85 | 1.10 | 0.197 | No |
| 766 | 53.10 | 3.16 | 0.72 | 2.44 | 0.72 | 0.255 | 1.68 | 0.152 | 0.85 | 1.10 | 2.000 | Yes |
| 767 | 53.20 | 3.17 | 0.72 | 2.45 | 0.72 | 0.255 | 1.68 | 0.152 | 0.85 | 1.10 | 2.000 | Yes |
| 768 | 53.29 | 3.18 | 0.73 | 2.45 | 0.72 | 0.255 | 1.68 | 0.151 | 0.85 | 1.10 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 769 | 53.38 | 3.18 | 0.73 | 2.45 | 0.72 | 0.255 | 1.68 | 0.151 | 0.85 | 1.10 | 2.000 | Yes |
| 770 | 53.46 | 3.19 | 0.73 | 2.46 | 0.72 | 0.254 | 1.68 | 0.151 | 0.85 | 1.10 | 2.000 | Yes |
| 771 | 53.53 | 3.19 | 0.73 | 2.46 | 0.72 | 0.254 | 1.68 | 0.151 | 0.84 | 1.10 | 2.000 | Yes |
| 772 | 53.63 | 3.20 | 0.74 | 2.46 | 0.72 | 0.254 | 1.68 | 0.151 | 0.84 | 1.10 | 2.000 | Yes |
| 773 | 53.73 | 3.21 | 0.74 | 2.47 | 0.72 | 0.254 | 1.68 | 0.151 | 0.84 | 1.10 | 2.000 | Yes |
| 774 | 53.82 | 3.21 | 0.74 | 2.47 | 0.71 | 0.254 | 1.68 | 0.151 | 0.84 | 1.10 | 2.000 | Yes |
| 775 | 53.92 | 3.22 | 0.75 | 2.47 | 0.71 | 0.254 | 1.68 | 0.151 | 0.84 | 1.10 | 2.000 | Yes |
| 776 | 53.94 | 3.22 | 0.75 | 2.47 | 0.71 | 0.254 | 1.68 | 0.151 | 0.84 | 1.10 | 0.196 | No |
| 777 | 53.96 | 3.22 | 0.75 | 2.47 | 0.71 | 0.254 | 1.68 | 0.151 | 0.84 | 1.10 | 0.196 | No |
| 778 | 53.97 | 3.22 | 0.75 | 2.47 | 0.71 | 0.254 | 1.68 | 0.151 | 0.84 | 1.10 | 0.196 | No |
| 779 | 54.05 | 3.23 | 0.75 | 2.48 | 0.71 | 0.253 | 1.68 | 0.151 | 0.84 | 1.10 | 0.196 | No |
| 780 | 54.08 | 3.23 | 0.75 | 2.48 | 0.71 | 0.253 | 1.68 | 0.151 | 0.84 | 1.10 | 0.196 | No |
| 781 | 54.13 | 3.23 | 0.75 | 2.48 | 0.71 | 0.253 | 1.68 | 0.151 | 0.84 | 1.10 | 0.196 | No |
| 782 | 54.19 | 3.24 | 0.75 | 2.48 | 0.71 | 0.253 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 783 | 54.25 | 3.24 | 0.76 | 2.48 | 0.71 | 0.253 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 784 | 54.28 | 3.24 | 0.76 | 2.49 | 0.71 | 0.253 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 785 | 54.29 | 3.24 | 0.76 | 2.49 | 0.71 | 0.253 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 786 | 54.34 | 3.25 | 0.76 | 2.49 | 0.71 | 0.253 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 787 | 54.35 | 3.25 | 0.76 | 2.49 | 0.71 | 0.253 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 788 | 54.40 | 3.25 | 0.76 | 2.49 | 0.71 | 0.253 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 789 | 54.44 | 3.25 | 0.76 | 2.49 | 0.71 | 0.253 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 790 | 54.49 | 3.26 | 0.76 | 2.49 | 0.71 | 0.253 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 791 | 54.53 | 3.26 | 0.77 | 2.50 | 0.71 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 792 | 54.57 | 3.26 | 0.77 | 2.50 | 0.71 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 793 | 54.58 | 3.26 | 0.77 | 2.50 | 0.71 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 794 | 54.63 | 3.27 | 0.77 | 2.50 | 0.71 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 795 | 54.68 | 3.27 | 0.77 | 2.50 | 0.71 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 796 | 54.73 | 3.27 | 0.77 | 2.50 | 0.71 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 797 | 54.78 | 3.28 | 0.77 | 2.50 | 0.71 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 798 | 54.83 | 3.28 | 0.77 | 2.51 | 0.70 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 799 | 54.88 | 3.28 | 0.78 | 2.51 | 0.70 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 800 | 54.92 | 3.29 | 0.78 | 2.51 | 0.70 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 801 | 54.97 | 3.29 | 0.78 | 2.51 | 0.70 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 802 | 55.02 | 3.29 | 0.78 | 2.51 | 0.70 | 0.252 | 1.68 | 0.150 | 0.84 | 1.10 | 0.196 | No |
| 803 | 55.12 | 3.30 | 0.78 | 2.52 | 0.70 | 0.251 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 804 | 55.17 | 3.30 | 0.79 | 2.52 | 0.70 | 0.251 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 805 | 55.25 | 3.31 | 0.79 | 2.52 | 0.70 | 0.251 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 806 | 55.31 | 3.31 | 0.79 | 2.52 | 0.70 | 0.251 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 807 | 55.36 | 3.32 | 0.79 | 2.53 | 0.70 | 0.251 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 808 | 55.45 | 3.32 | 0.79 | 2.53 | 0.70 | 0.251 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 809 | 55.50 | 3.33 | 0.80 | 2.53 | 0.70 | 0.251 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 810 | 55.60 | 3.33 | 0.80 | 2.53 | 0.70 | 0.250 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 811 | 55.65 | 3.34 | 0.80 | 2.54 | 0.70 | 0.250 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 812 | 55.71 | 3.34 | 0.80 | 2.54 | 0.70 | 0.250 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 813 | 55.75 | 3.34 | 0.80 | 2.54 | 0.70 | 0.250 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 814 | 55.79 | 3.35 | 0.80 | 2.54 | 0.70 | 0.250 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 815 | 55.84 | 3.35 | 0.81 | 2.54 | 0.70 | 0.250 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 816 | 55.89 | 3.35 | 0.81 | 2.55 | 0.70 | 0.250 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 817 | 55.90 | 3.35 | 0.81 | 2.55 | 0.69 | 0.250 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 818 | 55.94 | 3.36 | 0.81 | 2.55 | 0.69 | 0.250 | 1.68 | 0.149 | 0.84 | 1.10 | 0.195 | No |
| 819 | 55.99 | 3.36 | 0.81 | 2.55 | 0.69 | 0.250 | 1.68 | 0.148 | 0.84 | 1.10 | 0.195 | No |
| 820 | 56.03 | 3.36 | 0.81 | 2.55 | 0.69 | 0.250 | 1.68 | 0.148 | 0.84 | 1.10 | 0.195 | No |
| 821 | 56.08 | 3.37 | 0.81 | 2.55 | 0.69 | 0.250 | 1.68 | 0.148 | 0.84 | 1.10 | 0.195 | No |
| 822 | 56.14 | 3.37 | 0.82 | 2.55 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.195 | No |
| 823 | 56.22 | 3.38 | 0.82 | 2.56 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.194 | No |
| 824 | 56.28 | 3.38 | 0.82 | 2.56 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.194 | No |
| 825 | 56.33 | 3.38 | 0.82 | 2.56 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.194 | No |
| 826 | 56.38 | 3.39 | 0.82 | 2.56 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.194 | No |
| 827 | 56.45 | 3.39 | 0.83 | 2.56 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.194 | No |
| 828 | 56.52 | 3.39 | 0.83 | 2.57 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.194 | No |
| 829 | 56.62 | 3.40 | 0.83 | 2.57 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.194 | No |
| 830 | 56.66 | 3.40 | 0.83 | 2.57 | 0.69 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.194 | No |
| 831 | 56.73 | 3.41 | 0.83 | 2.57 | 0.69 | 0.248 | 1.68 | 0.148 | 0.84 | 1.10 | 0.194 | No |
| 832 | 56.81 | 3.41 | 0.84 | 2.58 | 0.69 | 0.248 | 1.68 | 0.148 | 0.84 | 1.10 | 0.194 | No |
| 833 | 56.95 | 3.42 | 0.84 | 2.58 | 0.69 | 0.248 | 1.68 | 0.147 | 0.84 | 1.10 | 0.194 | No |
| 834 | 57.00 | 3.43 | 0.84 | 2.58 | 0.68 | 0.248 | 1.68 | 0.147 | 0.84 | 1.10 | 0.194 | No |
| 835 | 57.09 | 3.43 | 0.85 | 2.59 | 0.68 | 0.248 | 1.68 | 0.147 | 0.84 | 1.10 | 0.194 | No |
| 836 | 57.19 | 3.44 | 0.85 | 2.59 | 0.68 | 0.248 | 1.68 | 0.147 | 0.84 | 1.10 | 0.194 | No |
| 837 | 57.27 | 3.45 | 0.85 | 2.59 | 0.68 | 0.247 | 1.68 | 0.147 | 0.84 | 1.10 | 0.194 | No |
| 838 | 57.35 | 3.45 | 0.85 | 2.60 | 0.68 | 0.247 | 1.68 | 0.147 | 0.84 | 1.10 | 0.193 | No |
| 839 | 57.44 | 3.46 | 0.86 | 2.60 | 0.68 | 0.247 | 1.68 | 0.147 | 0.84 | 1.10 | 0.193 | No |
| 840 | 57.50 | 3.46 | 0.86 | 2.60 | 0.68 | 0.247 | 1.68 | 0.147 | 0.84 | 1.10 | 0.193 | No |
| 841 | 57.52 | 3.46 | 0.86 | 2.60 | 0.68 | 0.247 | 1.68 | 0.147 | 0.84 | 1.10 | 0.193 | No |
| 842 | 57.58 | 3.47 | 0.86 | 2.60 | 0.68 | 0.247 | 1.68 | 0.147 | 0.84 | 1.10 | 0.193 | No |
| 843 | 57.63 | 3.47 | 0.86 | 2.61 | 0.68 | 0.247 | 1.68 | 0.147 | 0.83 | 1.10 | 0.193 | No |
| 844 | 57.72 | 3.48 | 0.86 | 2.61 | 0.68 | 0.247 | 1.68 | 0.147 | 0.83 | 1.10 | 0.193 | No |
| 845 | 57.77 | 3.48 | 0.87 | 2.61 | 0.68 | 0.247 | 1.68 | 0.147 | 0.83 | 1.10 | 0.193 | No |
| 846 | 57.82 | 3.48 | 0.87 | 2.61 | 0.68 | 0.246 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 847 | 57.91 | 3.49 | 0.87 | 2.62 | 0.68 | 0.246 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 848 | 57.96 | 3.49 | 0.87 | 2.62 | 0.68 | 0.246 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 849 | 58.02 | 3.49 | 0.87 | 2.62 | 0.68 | 0.246 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 850 | 58.09 | 3.50 | 0.88 | 2.62 | 0.68 | 0.246 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 851 | 58.16 | 3.50 | 0.88 | 2.63 | 0.67 | 0.246 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 852 | 58.25 | 3.51 | 0.88 | 2.63 | 0.67 | 0.246 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 853 | 58.30 | 3.51 | 0.88 | 2.63 | 0.67 | 0.246 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 854 | 58.40 | 3.52 | 0.89 | 2.63 | 0.67 | 0.245 | 1.68 | 0.146 | 0.83 | 1.10 | 0.193 | No |
| 855 | 58.50 | 3.53 | 0.89 | 2.64 | 0.67 | 0.245 | 1.68 | 0.146 | 0.83 | 1.10 | 0.192 | No |
| 856 | 58.56 | 3.53 | 0.89 | 2.64 | 0.67 | 0.245 | 1.68 | 0.146 | 0.83 | 1.10 | 0.192 | No |
| 857 | 58.64 | 3.54 | 0.89 | 2.64 | 0.67 | 0.245 | 1.68 | 0.146 | 0.83 | 1.10 | 0.192 | No |
| 858 | 58.73 | 3.54 | 0.90 | 2.65 | 0.67 | 0.245 | 1.68 | 0.146 | 0.83 | 1.10 | 0.192 | No |
| 859 | 58.78 | 3.55 | 0.90 | 2.65 | 0.67 | 0.245 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 860 | 58.88 | 3.55 | 0.90 | 2.65 | 0.67 | 0.245 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 861 | 58.97 | 3.56 | 0.90 | 2.65 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 862 | 59.07 | 3.57 | 0.91 | 2.66 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 863 | 59.13 | 3.57 | 0.91 | 2.66 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 864 | 59.23 | 3.58 | 0.91 | 2.66 | 0.67 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 865 | 59.31 | 3.58 | 0.91 | 2.67 | 0.66 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 866 | 59.38 | 3.59 | 0.92 | 2.67 | 0.66 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 867 | 59.41 | 3.59 | 0.92 | 2.67 | 0.66 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 868 | 59.46 | 3.59 | 0.92 | 2.67 | 0.66 | 0.244 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 869 | 59.51 | 3.59 | 0.92 | 2.67 | 0.66 | 0.243 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 870 | 59.57 | 3.60 | 0.92 | 2.68 | 0.66 | 0.243 | 1.68 | 0.145 | 0.83 | 1.10 | 0.192 | No |
| 871 | 59.66 | 3.60 | 0.93 | 2.68 | 0.66 | 0.243 | 1.68 | 0.145 | 0.83 | 1.10 | 0.191 | No |
| 872 | 59.75 | 3.61 | 0.93 | 2.68 | 0.66 | 0.243 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 873 | 59.80 | 3.61 | 0.93 | 2.68 | 0.66 | 0.243 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 874 | 59.85 | 3.62 | 0.93 | 2.69 | 0.66 | 0.243 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 875 | 59.91 | 3.62 | 0.93 | 2.69 | 0.66 | 0.243 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 876 | 59.99 | 3.63 | 0.94 | 2.69 | 0.66 | 0.243 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 877 | 60.05 | 3.63 | 0.94 | 2.69 | 0.66 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 878 | 60.09 | 3.63 | 0.94 | 2.69 | 0.66 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 879 | 60.14 | 3.64 | 0.94 | 2.70 | 0.66 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 880 | 60.19 | 3.64 | 0.94 | 2.70 | 0.66 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 881 | 60.22 | 3.64 | 0.94 | 2.70 | 0.66 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 882 | 60.28 | 3.65 | 0.94 | 2.70 | 0.66 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 883 | 60.33 | 3.65 | 0.95 | 2.70 | 0.66 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 884 | 60.38 | 3.65 | 0.95 | 2.71 | 0.66 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 885 | 60.42 | 3.66 | 0.95 | 2.71 | 0.66 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 886 | 60.48 | 3.66 | 0.95 | 2.71 | 0.66 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 887 | 60.57 | 3.67 | 0.95 | 2.71 | 0.65 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 0.191 | No |
| 888 | 60.66 | 3.67 | 0.96 | 2.72 | 0.65 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.191 | No |
| 889 | 60.68 | 3.67 | 0.96 | 2.72 | 0.65 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.191 | No |
| 890 | 60.69 | 3.67 | 0.96 | 2.72 | 0.65 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.191 | No |
| 891 | 60.74 | 3.68 | 0.96 | 2.72 | 0.65 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.191 | No |
| 892 | 60.79 | 3.68 | 0.96 | 2.72 | 0.65 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 893 | 60.84 | 3.68 | 0.96 | 2.72 | 0.65 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 894 | 60.89 | 3.69 | 0.96 | 2.72 | 0.65 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 895 | 60.98 | 3.69 | 0.97 | 2.73 | 0.65 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 896 | 61.03 | 3.69 | 0.97 | 2.73 | 0.65 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 897 | 61.08 | 3.70 | 0.97 | 2.73 | 0.65 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 898 | 61.18 | 3.70 | 0.97 | 2.73 | 0.65 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 899 | 61.23 | 3.71 | 0.97 | 2.73 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 900 | 61.31 | 3.71 | 0.98 | 2.74 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 901 | 61.42 | 3.72 | 0.98 | 2.74 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 902 | 61.47 | 3.72 | 0.98 | 2.74 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 903 | 61.51 | 3.73 | 0.98 | 2.74 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 904 | 61.54 | 3.73 | 0.98 | 2.74 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 905 | 61.57 | 3.73 | 0.98 | 2.74 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 906 | 61.58 | 3.73 | 0.99 | 2.75 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 907 | 61.61 | 3.73 | 0.99 | 2.75 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 908 | 61.63 | 3.73 | 0.99 | 2.75 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 909 | 61.63 | 3.73 | 0.99 | 2.75 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 910 | 61.66 | 3.74 | 0.99 | 2.75 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 911 | 61.67 | 3.74 | 0.99 | 2.75 | 0.65 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 0.190 | No |
| 912 | 61.70 | 3.74 | 0.99 | 2.75 | 0.65 | 0.240 | 1.68 | 0.142 | 0.83 | 1.10 | 0.190 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 913 | 61.71 | 3.74 | 0.99 | 2.75 | 0.65 | 0.240 | 1.68 | 0.142 | 0.83 | 1.10 | 0.190 | No |
| 914 | 61.76 | 3.74 | 0.99 | 2.75 | 0.65 | 0.240 | 1.68 | 0.142 | 0.83 | 1.10 | 0.190 | No |
| 915 | 61.80 | 3.75 | 0.99 | 2.75 | 0.65 | 0.240 | 1.68 | 0.142 | 0.83 | 1.10 | 0.190 | No |
| 916 | 61.84 | 3.75 | 0.99 | 2.75 | 0.64 | 0.239 | 1.68 | 0.142 | 0.83 | 1.10 | 0.190 | No |
| 917 | 61.86 | 3.75 | 0.99 | 2.75 | 0.64 | 0.239 | 1.68 | 0.142 | 0.83 | 1.10 | 0.190 | No |
| 918 | 61.93 | 3.75 | 1.00 | 2.76 | 0.64 | 0.239 | 1.68 | 0.142 | 0.83 | 1.10 | 0.190 | No |
| 919 | 61.98 | 3.76 | 1.00 | 2.76 | 0.64 | 0.239 | 1.68 | 0.142 | 0.83 | 1.10 | 0.189 | No |
| 920 | 62.04 | 3.76 | 1.00 | 2.76 | 0.64 | 0.239 | 1.68 | 0.142 | 0.83 | 1.10 | 0.189 | No |
| 921 | 62.09 | 3.76 | 1.00 | 2.76 | 0.64 | 0.239 | 1.68 | 0.142 | 0.83 | 1.10 | 0.189 | No |
| 922 | 62.14 | 3.77 | 1.00 | 2.76 | 0.64 | 0.239 | 1.68 | 0.142 | 0.83 | 1.10 | 0.189 | No |
| 923 | 62.19 | 3.77 | 1.00 | 2.77 | 0.64 | 0.239 | 1.68 | 0.142 | 0.83 | 1.10 | 0.189 | No |
| 924 | 62.24 | 3.77 | 1.01 | 2.77 | 0.64 | 0.239 | 1.68 | 0.142 | 0.83 | 1.10 | 0.189 | No |
| 925 | 62.26 | 3.77 | 1.01 | 2.77 | 0.64 | 0.239 | 1.68 | 0.142 | 0.83 | 1.10 | 0.189 | No |
| 926 | 62.29 | 3.78 | 1.01 | 2.77 | 0.64 | 0.239 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 927 | 62.38 | 3.78 | 1.01 | 2.77 | 0.64 | 0.239 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 928 | 62.44 | 3.79 | 1.01 | 2.77 | 0.64 | 0.239 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 929 | 62.46 | 3.79 | 1.01 | 2.78 | 0.64 | 0.239 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 930 | 62.47 | 3.79 | 1.01 | 2.78 | 0.64 | 0.238 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 931 | 62.51 | 3.79 | 1.01 | 2.78 | 0.64 | 0.238 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 932 | 62.56 | 3.79 | 1.02 | 2.78 | 0.64 | 0.238 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 933 | 62.60 | 3.80 | 1.02 | 2.78 | 0.64 | 0.238 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 934 | 62.65 | 3.80 | 1.02 | 2.78 | 0.64 | 0.238 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 935 | 62.70 | 3.80 | 1.02 | 2.78 | 0.64 | 0.238 | 1.68 | 0.142 | 0.82 | 1.10 | 0.189 | No |
| 936 | 62.75 | 3.81 | 1.02 | 2.79 | 0.64 | 0.238 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 937 | 62.80 | 3.81 | 1.02 | 2.79 | 0.64 | 0.238 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 938 | 62.85 | 3.81 | 1.02 | 2.79 | 0.64 | 0.238 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 939 | 62.89 | 3.82 | 1.03 | 2.79 | 0.64 | 0.238 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 940 | 62.97 | 3.82 | 1.03 | 2.79 | 0.64 | 0.238 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 941 | 63.04 | 3.83 | 1.03 | 2.80 | 0.64 | 0.238 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 942 | 63.09 | 3.83 | 1.03 | 2.80 | 0.64 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 943 | 63.13 | 3.83 | 1.03 | 2.80 | 0.64 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 944 | 63.19 | 3.84 | 1.04 | 2.80 | 0.63 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 945 | 63.23 | 3.84 | 1.04 | 2.80 | 0.63 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.189 | No |
| 946 | 63.28 | 3.84 | 1.04 | 2.81 | 0.63 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |
| 947 | 63.32 | 3.85 | 1.04 | 2.81 | 0.63 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |
| 948 | 63.38 | 3.85 | 1.04 | 2.81 | 0.63 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |
| 949 | 63.44 | 3.85 | 1.04 | 2.81 | 0.63 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |
| 950 | 63.52 | 3.86 | 1.05 | 2.81 | 0.63 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |
| 951 | 63.57 | 3.86 | 1.05 | 2.82 | 0.63 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |
| 952 | 63.66 | 3.87 | 1.05 | 2.82 | 0.63 | 0.237 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |
| 953 | 63.73 | 3.87 | 1.05 | 2.82 | 0.63 | 0.236 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |
| 954 | 63.76 | 3.88 | 1.05 | 2.82 | 0.63 | 0.236 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |
| 955 | 63.76 | 3.88 | 1.05 | 2.82 | 0.63 | 0.236 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |
| 956 | 63.78 | 3.88 | 1.05 | 2.82 | 0.63 | 0.236 | 1.68 | 0.141 | 0.82 | 1.10 | 0.188 | No |
| 957 | 63.81 | 3.88 | 1.05 | 2.82 | 0.63 | 0.236 | 1.68 | 0.140 | 0.82 | 1.10 | 0.188 | No |
| 958 | 63.85 | 3.88 | 1.06 | 2.83 | 0.63 | 0.236 | 1.68 | 0.140 | 0.82 | 1.10 | 0.188 | No |
| 959 | 63.86 | 3.88 | 1.06 | 2.83 | 0.63 | 0.236 | 1.68 | 0.140 | 0.82 | 1.10 | 0.188 | No |
| 960 | 63.91 | 3.89 | 1.06 | 2.83 | 0.63 | 0.236 | 1.68 | 0.140 | 0.82 | 1.10 | 0.188 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 961 | 63.94 | 3.89 | 1.06 | 2.83 | 0.63 | 0.236 | 1.68 | 0.140 | 0.82 | 1.10 | 0.188 | No |
| 962 | 63.95 | 3.89 | 1.06 | 2.83 | 0.63 | 0.236 | 1.68 | 0.140 | 0.82 | 1.10 | 0.188 | No |
| 963 | 64.00 | 3.89 | 1.06 | 2.83 | 0.63 | 0.236 | 1.68 | 0.140 | 0.82 | 1.10 | 0.188 | No |
| 964 | 64.02 | 3.89 | 1.06 | 2.83 | 0.63 | 0.236 | 1.68 | 0.140 | 0.82 | 1.10 | 0.188 | No |
| 965 | 64.05 | 3.90 | 1.06 | 2.83 | 0.63 | 0.236 | 1.68 | 0.140 | 0.82 | 1.10 | 0.188 | No |
| 966 | 64.09 | 3.90 | 1.06 | 2.83 | 0.63 | 0.236 | 1.68 | 0.140 | 0.82 | 1.10 | 0.188 | No |
| 967 | 64.11 | 3.90 | 1.06 | 2.84 | 0.63 | 0.236 | 1.68 | 0.140 | 0.82 | 1.10 | 0.188 | No |
| 968 | 64.15 | 3.90 | 1.07 | 2.84 | 0.63 | 0.236 | 1.68 | 0.140 | 0.82 | 1.10 | 0.188 | No |
| 969 | 64.20 | 3.91 | 1.07 | 2.84 | 0.63 | 0.236 | 1.68 | 0.140 | 0.82 | 1.10 | 0.188 | No |
| 970 | 64.25 | 3.91 | 1.07 | 2.84 | 0.63 | 0.236 | 1.68 | 0.140 | 0.82 | 1.10 | 0.188 | No |
| 971 | 64.29 | 3.91 | 1.07 | 2.84 | 0.63 | 0.236 | 1.68 | 0.140 | 0.82 | 1.10 | 0.188 | No |
| 972 | 64.34 | 3.92 | 1.07 | 2.84 | 0.63 | 0.236 | 1.68 | 0.140 | 0.82 | 1.10 | 0.188 | No |
| 973 | 64.43 | 3.92 | 1.07 | 2.85 | 0.63 | 0.235 | 1.68 | 0.140 | 0.82 | 1.10 | 0.188 | No |
| 974 | 64.48 | 3.92 | 1.08 | 2.85 | 0.63 | 0.235 | 1.68 | 0.140 | 0.82 | 1.10 | 0.188 | No |
| 975 | 64.53 | 3.93 | 1.08 | 2.85 | 0.63 | 0.235 | 1.68 | 0.140 | 0.82 | 1.10 | 0.188 | No |
| 976 | 64.58 | 3.93 | 1.08 | 2.85 | 0.62 | 0.235 | 1.68 | 0.140 | 0.82 | 1.10 | 0.187 | No |
| 977 | 64.63 | 3.93 | 1.08 | 2.85 | 0.62 | 0.235 | 1.68 | 0.140 | 0.82 | 1.10 | 0.187 | No |
| 978 | 64.68 | 3.94 | 1.08 | 2.86 | 0.62 | 0.235 | 1.68 | 0.140 | 0.82 | 1.10 | 0.187 | No |
| 979 | 64.73 | 3.94 | 1.08 | 2.86 | 0.62 | 0.235 | 1.68 | 0.140 | 0.82 | 1.10 | 0.187 | No |
| 980 | 64.77 | 3.94 | 1.08 | 2.86 | 0.62 | 0.235 | 1.68 | 0.140 | 0.82 | 1.10 | 0.187 | No |
| 981 | 64.82 | 3.95 | 1.09 | 2.86 | 0.62 | 0.235 | 1.68 | 0.140 | 0.82 | 1.10 | 0.187 | No |
| 982 | 64.87 | 3.95 | 1.09 | 2.86 | 0.62 | 0.235 | 1.68 | 0.140 | 0.82 | 1.10 | 0.187 | No |
| 983 | 64.89 | 3.95 | 1.09 | 2.86 | 0.62 | 0.235 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 984 | 64.93 | 3.95 | 1.09 | 2.86 | 0.62 | 0.235 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 985 | 64.94 | 3.96 | 1.09 | 2.87 | 0.62 | 0.235 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 986 | 64.98 | 3.96 | 1.09 | 2.87 | 0.62 | 0.235 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 987 | 64.99 | 3.96 | 1.09 | 2.87 | 0.62 | 0.235 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 988 | 65.03 | 3.96 | 1.09 | 2.87 | 0.62 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 989 | 65.08 | 3.96 | 1.09 | 2.87 | 0.62 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 990 | 65.13 | 3.97 | 1.10 | 2.87 | 0.62 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 991 | 65.17 | 3.97 | 1.10 | 2.87 | 0.62 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 992 | 65.22 | 3.97 | 1.10 | 2.88 | 0.62 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 993 | 65.23 | 3.98 | 1.10 | 2.88 | 0.62 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 994 | 65.28 | 3.98 | 1.10 | 2.88 | 0.62 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 995 | 65.32 | 3.98 | 1.10 | 2.88 | 0.62 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 996 | 65.37 | 3.98 | 1.10 | 2.88 | 0.62 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 997 | 65.42 | 3.99 | 1.10 | 2.88 | 0.62 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 998 | 65.47 | 3.99 | 1.11 | 2.88 | 0.62 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 999 | 65.48 | 3.99 | 1.11 | 2.88 | 0.62 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 1000 | 65.49 | 3.99 | 1.11 | 2.89 | 0.62 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 1001 | 65.52 | 3.99 | 1.11 | 2.89 | 0.62 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 1002 | 65.57 | 4.00 | 1.11 | 2.89 | 0.62 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 1003 | 65.62 | 4.00 | 1.11 | 2.89 | 0.62 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 1004 | 65.67 | 4.00 | 1.11 | 2.89 | 0.62 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 1005 | 65.69 | 4.00 | 1.11 | 2.89 | 0.62 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 1006 | 65.72 | 4.01 | 1.11 | 2.89 | 0.62 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 1007 | 65.77 | 4.01 | 1.12 | 2.89 | 0.62 | 0.233 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 1008 | 65.82 | 4.01 | 1.12 | 2.89 | 0.62 | 0.233 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1009 | 65.86 | 4.01 | 1.12 | 2.89 | 0.62 | 0.233 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 1010 | 65.86 | 4.01 | 1.12 | 2.89 | 0.62 | 0.233 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 1011 | 65.91 | 4.01 | 1.12 | 2.89 | 0.62 | 0.233 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |
| 1012 | 65.96 | 4.02 | 1.12 | 2.89 | 0.62 | 0.233 | 1.68 | 0.139 | 0.82 | 1.10 | 0.187 | No |

**Abbreviations**

Depth: Depth from free surface, at which CPT was performed (ft)
$\sigma_v$: Total overburden pressure at test point (tsf)
$u_0$: Water pressure at test point (tsf)
$\sigma_v'$: Effective overburden pressure based on GWT during earthquake (tsf)
$r_d$: Nonlinear shear mass factor
CSR: Cyclic Stress Ratio
MSF: Magnitude Scaling Factor
$CSR_{eq}$: CSR adjusted for M=7.5
$K_\sigma$: Effective overburden stress factor
$CSR^*$: CSR fully adjusted

**:: Cyclic Resistance Ratio (CRR) calculation data ::**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.01 | -0.03 | N/A | -11.45 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 2 | 0.04 | -0.03 | N/A | -18.30 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 3 | 0.08 | -0.07 | N/A | -13.93 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 4 | 0.10 | -0.03 | N/A | -40.02 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 5 | 0.13 | -0.03 | N/A | -55.83 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 6 | 0.18 | 0.00 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 7 | 0.22 | 0.00 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 8 | 0.27 | 0.81 | 4.01 | 9.28 | 1.00 | 1.28 | 50.14 | 63.98 | 4.000 | No | Yes | 2.00 |
| 9 | 0.33 | 2.77 | 3.31 | 3.21 | 1.00 | 4.42 | 15.47 | 68.30 | 4.000 | No | Yes | 2.00 |
| 10 | 0.36 | 5.16 | 2.95 | 1.83 | 1.00 | 8.26 | 7.99 | 66.07 | 4.000 | Yes | Yes | 2.00 |
| 11 | 0.37 | 7.12 | 2.76 | 1.34 | 0.84 | 11.41 | 5.40 | 61.61 | 4.000 | Yes | Yes | 2.00 |
| 12 | 0.38 | 8.20 | 2.69 | 1.21 | 0.81 | 13.14 | 4.58 | 60.15 | 4.000 | Yes | Yes | 2.00 |
| 13 | 0.42 | 9.38 | 2.63 | 1.15 | 0.80 | 15.03 | 3.98 | 59.88 | 4.000 | Yes | Yes | 2.00 |
| 14 | 0.44 | 10.59 | 2.58 | 1.15 | 0.78 | 16.98 | 3.58 | 60.79 | 4.000 | Yes | No | 2.00 |
| 15 | 0.47 | 12.18 | 2.52 | 1.09 | 0.76 | 19.53 | 3.09 | 60.26 | 4.000 | Yes | No | 2.00 |
| 16 | 0.47 | 14.24 | 2.44 | 1.01 | 0.74 | 22.83 | 2.61 | 59.51 | 4.000 | Yes | No | 2.00 |
| 17 | 0.52 | 17.00 | 2.35 | 0.91 | 0.71 | 27.27 | 2.14 | 58.39 | 4.000 | Yes | No | 2.00 |
| 18 | 0.56 | 20.48 | 2.26 | 0.82 | 0.69 | 32.85 | 1.78 | 58.60 | 4.000 | Yes | No | 2.00 |
| 19 | 0.58 | 24.93 | 2.16 | 0.72 | 0.66 | 40.00 | 1.52 | 60.77 | 4.000 | Yes | No | 2.00 |
| 20 | 0.61 | 30.70 | 2.05 | 0.62 | 0.62 | 49.27 | 1.35 | 66.61 | 4.000 | Yes | No | 2.00 |
| 21 | 0.66 | 36.94 | 1.95 | 0.54 | 0.59 | 59.30 | 1.27 | 75.22 | 4.000 | Yes | No | 2.00 |
| 22 | 0.76 | 40.79 | 1.89 | 0.50 | 0.58 | 65.47 | 1.23 | 80.72 | 4.000 | Yes | No | 2.00 |
| 23 | 0.80 | 38.66 | 1.93 | 0.54 | 0.59 | 62.05 | 1.25 | 77.85 | 4.000 | No | No | 2.00 |
| 24 | 0.81 | 35.49 | 1.98 | 0.58 | 0.60 | 56.95 | 1.29 | 73.41 | 4.000 | No | No | 2.00 |
| 25 | 0.85 | 32.42 | 2.03 | 0.63 | 0.62 | 52.02 | 1.33 | 69.37 | 4.000 | No | No | 2.00 |
| 26 | 0.86 | 32.79 | 2.03 | 0.63 | 0.62 | 52.62 | 1.33 | 69.99 | 4.000 | No | No | 2.00 |
| 27 | 0.90 | 32.22 | 2.05 | 0.69 | 0.62 | 51.69 | 1.35 | 70.01 | 4.000 | No | No | 2.00 |
| 28 | 0.95 | 31.82 | 2.07 | 0.73 | 0.63 | 51.04 | 1.38 | 70.34 | 4.000 | No | No | 2.00 |
| 29 | 1.00 | 30.53 | 2.06 | 0.67 | 0.63 | 48.97 | 1.37 | 67.09 | 4.000 | No | No | 2.00 |
| 30 | 1.05 | 28.88 | 2.04 | 0.54 | 0.62 | 46.31 | 1.34 | 62.22 | 4.000 | No | No | 2.00 |
| 31 | 1.14 | 26.55 | 2.01 | 0.38 | 0.61 | 42.56 | 1.00 | 42.56 | 4.000 | No | No | 2.00 |
| 32 | 1.24 | 24.29 | 2.04 | 0.37 | 0.62 | 38.92 | 1.00 | 38.92 | 4.000 | No | No | 2.00 |
| 33 | 1.31 | 20.51 | 2.14 | 0.44 | 0.65 | 32.85 | 1.00 | 32.85 | 4.000 | No | No | 2.00 |
| 34 | 1.36 | 17.93 | 2.22 | 0.53 | 0.67 | 28.70 | 1.67 | 48.03 | 4.000 | No | No | 2.00 |
| 35 | 1.37 | 17.77 | 2.23 | 0.55 | 0.68 | 28.44 | 1.71 | 48.50 | 4.000 | No | No | 2.00 |
| 36 | 1.39 | 18.54 | 2.21 | 0.53 | 0.67 | 29.68 | 1.64 | 48.64 | 4.000 | No | No | 2.00 |
| 37 | 1.43 | 19.03 | 2.19 | 0.52 | 0.67 | 30.46 | 1.60 | 48.73 | 4.000 | No | No | 2.00 |
| 38 | 1.44 | 18.05 | 2.23 | 0.54 | 0.68 | 28.88 | 1.68 | 48.54 | 4.000 | No | No | 2.00 |
| 39 | 1.49 | 18.35 | 2.22 | 0.55 | 0.67 | 29.36 | 1.67 | 49.05 | 4.000 | No | No | 2.00 |
| 40 | 1.53 | 18.89 | 2.22 | 0.58 | 0.67 | 30.23 | 1.66 | 50.30 | 4.000 | No | No | 2.00 |
| 41 | 1.58 | 19.67 | 2.22 | 0.62 | 0.67 | 31.47 | 1.66 | 52.29 | 4.000 | No | No | 2.00 |
| 42 | 1.63 | 20.62 | 2.22 | 0.68 | 0.67 | 32.99 | 1.66 | 54.77 | 4.000 | No | No | 2.00 |
| 43 | 1.68 | 21.70 | 2.21 | 0.74 | 0.67 | 34.72 | 1.65 | 57.36 | 4.000 | No | No | 2.00 |
| 44 | 1.72 | 23.31 | 2.20 | 0.77 | 0.67 | 37.31 | 1.61 | 60.04 | 4.000 | No | No | 2.00 |
| 45 | 1.77 | 25.48 | 2.17 | 0.79 | 0.66 | 40.78 | 1.54 | 62.93 | 4.000 | No | No | 2.00 |
| 46 | 1.82 | 28.31 | 2.13 | 0.78 | 0.65 | 45.33 | 1.46 | 66.36 | 4.000 | No | No | 2.00 |
| 47 | 1.86 | 31.52 | 2.08 | 0.77 | 0.63 | 50.48 | 1.40 | 70.45 | 4.000 | No | No | 2.00 |
| 48 | 1.92 | 35.09 | 2.03 | 0.73 | 0.62 | 56.22 | 1.34 | 75.14 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 49 | 1.97 | 38.67 | 1.98 | 0.69 | 0.60 | 61.96 | 1.29 | 80.21 | 4.000 | No | No | 2.00 |
| 50 | 2.01 | 41.61 | 1.95 | 0.68 | 0.59 | 66.68 | 1.27 | 84.88 | 4.000 | No | No | 2.00 |
| 51 | 2.09 | 43.22 | 1.94 | 0.68 | 0.59 | 69.27 | 1.26 | 87.55 | 4.000 | No | No | 2.00 |
| 52 | 2.16 | 43.05 | 1.95 | 0.70 | 0.59 | 68.99 | 1.27 | 87.53 | 4.000 | No | No | 2.00 |
| 53 | 2.20 | 41.47 | 1.96 | 0.71 | 0.60 | 66.43 | 1.28 | 85.02 | 4.000 | No | No | 2.00 |
| 54 | 2.25 | 39.85 | 1.98 | 0.71 | 0.60 | 63.83 | 1.29 | 82.39 | 4.000 | No | No | 2.00 |
| 55 | 2.31 | 38.60 | 1.99 | 0.69 | 0.60 | 61.82 | 1.30 | 80.09 | 4.000 | No | No | 2.00 |
| 56 | 2.37 | 37.79 | 1.98 | 0.66 | 0.60 | 60.52 | 1.29 | 78.32 | 4.000 | No | No | 2.00 |
| 57 | 2.40 | 36.88 | 1.99 | 0.64 | 0.60 | 59.05 | 1.30 | 76.51 | 4.000 | No | No | 2.00 |
| 58 | 2.46 | 35.97 | 1.98 | 0.61 | 0.60 | 57.57 | 1.29 | 74.55 | 4.000 | No | No | 2.00 |
| 59 | 2.54 | 35.36 | 1.97 | 0.57 | 0.60 | 56.59 | 1.29 | 72.87 | 4.000 | No | No | 2.00 |
| 60 | 2.59 | 34.69 | 1.96 | 0.50 | 0.59 | 55.51 | 1.00 | 55.51 | 4.000 | No | No | 2.00 |
| 61 | 2.69 | 34.25 | 1.94 | 0.45 | 0.59 | 54.80 | 1.00 | 54.80 | 4.000 | No | No | 2.00 |
| 62 | 2.74 | 33.95 | 1.92 | 0.40 | 0.58 | 54.31 | 1.00 | 54.31 | 4.000 | No | No | 2.00 |
| 63 | 2.83 | 33.88 | 1.92 | 0.39 | 0.58 | 54.19 | 1.00 | 54.19 | 4.000 | No | No | 2.00 |
| 64 | 2.88 | 34.35 | 1.91 | 0.38 | 0.58 | 54.94 | 1.00 | 54.94 | 4.000 | No | No | 2.00 |
| 65 | 2.98 | 35.70 | 1.89 | 0.37 | 0.57 | 57.10 | 1.00 | 57.10 | 4.000 | No | No | 2.00 |
| 66 | 3.03 | 38.57 | 1.85 | 0.36 | 0.56 | 61.71 | 1.00 | 61.71 | 4.000 | No | No | 2.00 |
| 67 | 3.12 | 42.31 | 1.82 | 0.38 | 0.55 | 67.72 | 1.00 | 67.72 | 4.000 | No | No | 2.00 |
| 68 | 3.21 | 46.83 | 1.79 | 0.40 | 0.55 | 74.97 | 1.00 | 74.97 | 4.000 | No | No | 2.00 |
| 69 | 3.27 | 51.66 | 1.76 | 0.41 | 0.54 | 82.72 | 1.00 | 82.72 | 4.000 | No | No | 2.00 |
| 70 | 3.34 | 57.05 | 1.72 | 0.40 | 0.52 | 91.38 | 1.00 | 91.38 | 4.000 | No | No | 2.00 |
| 71 | 3.41 | 61.91 | 1.69 | 0.40 | 0.51 | 99.18 | 1.00 | 99.18 | 4.000 | No | No | 2.00 |
| 72 | 3.51 | 64.20 | 1.68 | 0.41 | 0.51 | 102.85 | 1.00 | 102.85 | 4.000 | No | No | 2.00 |
| 73 | 3.55 | 63.63 | 1.70 | 0.44 | 0.52 | 101.93 | 1.00 | 101.93 | 4.000 | No | No | 2.00 |
| 74 | 3.65 | 62.42 | 1.72 | 0.46 | 0.52 | 99.97 | 1.00 | 99.97 | 4.000 | No | No | 2.00 |
| 75 | 3.75 | 61.71 | 1.73 | 0.47 | 0.53 | 98.83 | 1.00 | 98.83 | 4.000 | No | No | 2.00 |
| 76 | 3.83 | 61.44 | 1.73 | 0.47 | 0.53 | 98.39 | 1.00 | 98.39 | 4.000 | No | No | 2.00 |
| 77 | 3.94 | 61.11 | 1.73 | 0.47 | 0.53 | 97.84 | 1.00 | 97.84 | 4.000 | No | No | 2.00 |
| 78 | 4.04 | 60.30 | 1.73 | 0.47 | 0.53 | 96.53 | 1.00 | 96.53 | 4.000 | No | No | 2.00 |
| 79 | 4.13 | 60.63 | 1.75 | 0.50 | 0.53 | 97.06 | 1.08 | 104.72 | 4.000 | No | No | 2.00 |
| 80 | 4.24 | 61.68 | 1.74 | 0.50 | 0.53 | 98.73 | 1.00 | 98.73 | 4.000 | No | No | 2.00 |
| 81 | 4.38 | 65.15 | 1.68 | 0.42 | 0.51 | 104.30 | 1.00 | 104.30 | 4.000 | No | No | 2.00 |
| 82 | 4.50 | 68.93 | 1.62 | 0.35 | 0.50 | 110.36 | 1.00 | 110.36 | 4.000 | No | No | 2.00 |
| 83 | 4.62 | 74.13 | 1.57 | 0.32 | 0.50 | 118.70 | 1.00 | 118.70 | 4.000 | No | No | 2.00 |
| 84 | 4.71 | 77.89 | 1.57 | 0.35 | 0.50 | 124.73 | 1.00 | 124.73 | 4.000 | No | No | 2.00 |
| 85 | 4.75 | 80.93 | 1.57 | 0.37 | 0.50 | 129.61 | 1.00 | 129.61 | 4.000 | No | No | 2.00 |
| 86 | 4.84 | 82.11 | 1.58 | 0.39 | 0.50 | 131.50 | 1.00 | 131.50 | 4.000 | No | No | 2.00 |
| 87 | 4.89 | 82.93 | 1.58 | 0.40 | 0.50 | 132.82 | 1.00 | 132.82 | 4.000 | No | No | 2.00 |
| 88 | 4.94 | 82.93 | 1.58 | 0.40 | 0.50 | 132.82 | 1.00 | 132.82 | 4.000 | No | No | 2.00 |
| 89 | 4.98 | 81.72 | 1.59 | 0.41 | 0.50 | 130.87 | 1.00 | 130.87 | 4.000 | No | No | 2.00 |
| 90 | 5.07 | 80.10 | 1.60 | 0.41 | 0.50 | 128.25 | 1.00 | 128.25 | 4.000 | No | No | 2.00 |
| 91 | 5.13 | 78.48 | 1.61 | 0.42 | 0.50 | 125.65 | 1.00 | 125.65 | 4.000 | No | No | 2.00 |
| 92 | 5.17 | 76.79 | 1.61 | 0.41 | 0.50 | 122.93 | 1.00 | 122.93 | 4.000 | No | No | 2.00 |
| 93 | 5.27 | 74.77 | 1.62 | 0.41 | 0.50 | 119.67 | 1.00 | 119.67 | 4.000 | No | No | 2.00 |
| 94 | 5.32 | 72.75 | 1.63 | 0.40 | 0.50 | 116.42 | 1.00 | 116.42 | 4.000 | No | No | 2.00 |
| 95 | 5.42 | 70.86 | 1.64 | 0.40 | 0.50 | 113.37 | 1.00 | 113.37 | 4.000 | No | No | 2.00 |
| 96 | 5.46 | 69.34 | 1.64 | 0.39 | 0.50 | 110.93 | 1.00 | 110.93 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97 | 5.56 | 68.02 | 1.65 | 0.39 | 0.50 | 108.80 | 1.00 | 108.80 | 4.000 | No | No | 2.00 |
| 98 | 5.61 | 66.87 | 1.66 | 0.39 | 0.50 | 106.96 | 1.00 | 106.96 | 4.000 | No | No | 2.00 |
| 99 | 5.71 | 65.86 | 1.66 | 0.40 | 0.51 | 105.32 | 1.00 | 105.32 | 4.000 | No | No | 2.00 |
| 100 | 5.78 | 64.92 | 1.67 | 0.40 | 0.51 | 103.80 | 1.00 | 103.80 | 4.000 | No | No | 2.00 |
| 101 | 5.85 | 63.84 | 1.68 | 0.41 | 0.51 | 102.06 | 1.00 | 102.06 | 4.000 | No | No | 2.00 |
| 102 | 5.95 | 62.83 | 1.69 | 0.42 | 0.52 | 100.42 | 1.00 | 100.42 | 4.000 | No | No | 2.00 |
| 103 | 6.00 | 62.32 | 1.71 | 0.44 | 0.52 | 99.61 | 1.00 | 99.61 | 4.000 | No | No | 2.00 |
| 104 | 6.09 | 62.93 | 1.66 | 0.36 | 0.51 | 100.57 | 1.00 | 100.57 | 4.000 | No | No | 2.00 |
| 105 | 6.14 | 64.75 | 1.60 | 0.29 | 0.50 | 103.50 | 1.00 | 103.50 | 4.000 | No | No | 2.00 |
| 106 | 6.24 | 67.52 | 1.53 | 0.21 | 0.50 | 107.94 | 1.00 | 107.94 | 4.000 | No | No | 2.00 |
| 107 | 6.30 | 70.42 | 1.54 | 0.24 | 0.50 | 112.60 | 1.00 | 112.60 | 4.000 | No | No | 2.00 |
| 108 | 6.38 | 71.40 | 1.56 | 0.28 | 0.50 | 114.16 | 1.00 | 114.16 | 4.000 | No | No | 2.00 |
| 109 | 6.46 | 69.58 | 1.60 | 0.32 | 0.50 | 111.22 | 1.00 | 111.22 | 4.000 | No | No | 2.00 |
| 110 | 6.50 | 68.43 | 1.62 | 0.35 | 0.50 | 109.38 | 1.00 | 109.38 | 4.000 | No | No | 2.00 |
| 111 | 6.56 | 68.84 | 1.63 | 0.36 | 0.50 | 110.02 | 1.00 | 110.02 | 4.000 | No | No | 2.00 |
| 112 | 6.63 | 71.30 | 1.61 | 0.36 | 0.50 | 113.98 | 1.00 | 113.98 | 4.000 | No | No | 2.00 |
| 113 | 6.68 | 72.51 | 1.61 | 0.37 | 0.50 | 115.92 | 1.00 | 115.92 | 4.000 | No | No | 2.00 |
| 114 | 6.76 | 73.49 | 1.61 | 0.37 | 0.50 | 117.34 | 1.00 | 117.34 | 4.000 | No | No | 2.00 |
| 115 | 6.82 | 74.54 | 1.60 | 0.37 | 0.50 | 118.51 | 1.00 | 118.51 | 4.000 | No | No | 2.00 |
| 116 | 6.88 | 76.19 | 1.59 | 0.36 | 0.50 | 120.59 | 1.00 | 120.59 | 4.000 | No | No | 2.00 |
| 117 | 6.96 | 78.38 | 1.58 | 0.35 | 0.50 | 123.33 | 1.00 | 123.33 | 4.000 | No | No | 2.00 |
| 118 | 7.03 | 80.54 | 1.56 | 0.34 | 0.50 | 126.09 | 1.00 | 126.09 | 4.000 | No | No | 2.00 |
| 119 | 7.11 | 82.06 | 1.55 | 0.34 | 0.50 | 127.75 | 1.00 | 127.75 | 4.000 | No | No | 2.00 |
| 120 | 7.16 | 83.04 | 1.55 | 0.34 | 0.50 | 128.83 | 1.00 | 128.83 | 4.000 | No | No | 2.00 |
| 121 | 7.26 | 83.82 | 1.55 | 0.34 | 0.50 | 129.11 | 1.00 | 129.11 | 4.000 | No | No | 2.00 |
| 122 | 7.31 | 84.43 | 1.56 | 0.35 | 0.50 | 129.55 | 1.00 | 129.55 | 4.000 | No | No | 2.00 |
| 123 | 7.40 | 84.63 | 1.56 | 0.35 | 0.50 | 129.06 | 1.00 | 129.06 | 4.000 | No | No | 2.00 |
| 124 | 7.45 | 84.52 | 1.56 | 0.35 | 0.50 | 128.43 | 1.00 | 128.43 | 4.000 | No | No | 2.00 |
| 125 | 7.54 | 83.95 | 1.57 | 0.35 | 0.50 | 126.75 | 1.00 | 126.75 | 4.000 | No | No | 2.00 |
| 126 | 7.60 | 82.84 | 1.58 | 0.36 | 0.50 | 124.58 | 1.00 | 124.58 | 4.000 | No | No | 2.00 |
| 127 | 7.68 | 81.22 | 1.59 | 0.36 | 0.50 | 121.42 | 1.00 | 121.42 | 4.000 | No | No | 2.00 |
| 128 | 7.74 | 79.70 | 1.60 | 0.36 | 0.50 | 118.70 | 1.00 | 118.70 | 4.000 | No | No | 2.00 |
| 129 | 7.83 | 78.55 | 1.61 | 0.37 | 0.50 | 116.27 | 1.00 | 116.27 | 4.000 | No | No | 2.00 |
| 130 | 7.90 | 78.35 | 1.61 | 0.37 | 0.50 | 115.47 | 1.00 | 115.47 | 4.000 | No | No | 2.00 |
| 131 | 7.98 | 79.10 | 1.62 | 0.38 | 0.50 | 115.95 | 1.00 | 115.95 | 4.000 | No | No | 2.00 |
| 132 | 8.05 | 80.62 | 1.62 | 0.39 | 0.50 | 117.66 | 1.00 | 117.66 | 4.000 | No | No | 2.00 |
| 133 | 8.12 | 81.69 | 1.62 | 0.40 | 0.50 | 118.66 | 1.00 | 118.66 | 4.000 | No | No | 2.00 |
| 134 | 8.19 | 81.66 | 1.62 | 0.41 | 0.50 | 118.08 | 1.00 | 118.08 | 4.000 | No | No | 2.00 |
| 135 | 8.27 | 80.48 | 1.64 | 0.42 | 0.50 | 115.81 | 1.00 | 115.81 | 4.000 | No | No | 2.00 |
| 136 | 8.36 | 79.13 | 1.65 | 0.42 | 0.50 | 113.39 | 1.00 | 113.39 | 4.000 | No | No | 2.00 |
| 137 | 8.41 | 78.35 | 1.61 | 0.34 | 0.50 | 111.75 | 1.00 | 111.75 | 4.000 | No | No | 2.00 |
| 138 | 8.50 | 78.42 | 1.57 | 0.27 | 0.50 | 111.21 | 1.00 | 111.21 | 4.000 | No | No | 2.00 |
| 139 | 8.60 | 78.79 | 1.54 | 0.23 | 0.50 | 111.10 | 1.00 | 111.10 | 4.000 | No | No | 2.00 |
| 140 | 8.70 | 78.76 | 1.56 | 0.26 | 0.50 | 110.43 | 1.00 | 110.43 | 4.000 | No | No | 2.00 |
| 141 | 8.74 | 70.97 | 1.64 | 0.31 | 0.50 | 99.16 | 1.00 | 99.16 | 4.000 | No | No | 2.00 |
| 142 | 8.78 | 65.57 | 1.68 | 0.35 | 0.51 | 92.36 | 1.00 | 92.36 | 4.000 | No | No | 2.00 |
| 143 | 8.81 | 63.58 | 1.71 | 0.37 | 0.52 | 89.84 | 1.00 | 89.84 | 4.000 | No | No | 2.00 |
| 144 | 8.86 | 69.75 | 1.66 | 0.34 | 0.51 | 97.38 | 1.00 | 97.38 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 145 | 8.91 | 73.77 | 1.64 | 0.34 | 0.50 | 102.14 | 1.00 | 102.14 | 4.000 | No | No | 2.00 |
| 146 | 8.94 | 74.34 | 1.64 | 0.35 | 0.50 | 102.81 | 1.00 | 102.81 | 4.000 | No | No | 2.00 |
| 147 | 9.02 | 73.80 | 1.66 | 0.36 | 0.51 | 101.95 | 1.00 | 101.95 | 4.000 | No | No | 2.00 |
| 148 | 9.10 | 72.52 | 1.68 | 0.39 | 0.51 | 100.12 | 1.00 | 100.12 | 4.000 | No | No | 2.00 |
| 149 | 9.17 | 71.17 | 1.69 | 0.40 | 0.52 | 98.18 | 1.00 | 98.18 | 4.000 | No | No | 2.00 |
| 150 | 9.22 | 69.95 | 1.70 | 0.41 | 0.52 | 96.47 | 1.00 | 96.47 | 4.000 | No | No | 2.00 |
| 151 | 9.31 | 69.01 | 1.71 | 0.42 | 0.52 | 94.84 | 1.00 | 94.84 | 4.000 | No | No | 2.00 |
| 152 | 9.37 | 68.50 | 1.72 | 0.42 | 0.52 | 93.92 | 1.00 | 93.92 | 4.000 | No | No | 2.00 |
| 153 | 9.42 | 68.60 | 1.72 | 0.42 | 0.52 | 93.81 | 1.00 | 93.81 | 4.000 | No | No | 2.00 |
| 154 | 9.52 | 69.18 | 1.72 | 0.41 | 0.52 | 94.01 | 1.00 | 94.01 | 4.000 | No | No | 2.00 |
| 155 | 9.60 | 70.19 | 1.71 | 0.41 | 0.52 | 94.84 | 1.00 | 94.84 | 4.000 | No | No | 2.00 |
| 156 | 9.66 | 71.54 | 1.70 | 0.41 | 0.52 | 96.20 | 1.00 | 96.20 | 4.000 | No | No | 2.00 |
| 157 | 9.74 | 73.13 | 1.69 | 0.40 | 0.52 | 97.75 | 1.00 | 97.75 | 4.000 | No | No | 2.00 |
| 158 | 9.81 | 74.58 | 1.69 | 0.40 | 0.51 | 99.20 | 1.00 | 99.20 | 4.000 | No | No | 2.00 |
| 159 | 9.89 | 75.79 | 1.68 | 0.40 | 0.51 | 100.34 | 1.00 | 100.34 | 4.000 | No | No | 2.00 |
| 160 | 9.98 | 77.04 | 1.68 | 0.41 | 0.51 | 101.50 | 1.00 | 101.50 | 4.000 | No | No | 2.00 |
| 161 | 10.03 | 78.79 | 1.68 | 0.42 | 0.51 | 103.47 | 1.00 | 103.47 | 4.000 | No | No | 2.00 |
| 162 | 10.13 | 81.26 | 1.67 | 0.42 | 0.51 | 106.04 | 1.00 | 106.04 | 4.000 | No | No | 2.00 |
| 163 | 10.23 | 84.06 | 1.66 | 0.42 | 0.51 | 108.97 | 1.00 | 108.97 | 4.000 | No | No | 2.00 |
| 164 | 10.32 | 86.45 | 1.65 | 0.42 | 0.50 | 111.33 | 1.00 | 111.33 | 4.000 | No | No | 2.00 |
| 165 | 10.38 | 88.11 | 1.65 | 0.42 | 0.50 | 112.97 | 1.00 | 112.97 | 4.000 | No | No | 2.00 |
| 166 | 10.47 | 88.68 | 1.65 | 0.41 | 0.50 | 113.17 | 1.00 | 113.17 | 4.000 | No | No | 2.00 |
| 167 | 10.57 | 88.44 | 1.65 | 0.41 | 0.50 | 112.36 | 1.00 | 112.36 | 4.000 | No | No | 2.00 |
| 168 | 10.66 | 87.94 | 1.61 | 0.34 | 0.50 | 111.05 | 1.00 | 111.05 | 4.000 | No | No | 2.00 |
| 169 | 10.76 | 87.67 | 1.57 | 0.27 | 0.50 | 110.18 | 1.00 | 110.18 | 4.000 | No | No | 2.00 |
| 170 | 10.85 | 88.00 | 1.53 | 0.22 | 0.50 | 110.11 | 1.00 | 110.11 | 4.000 | No | No | 2.00 |
| 171 | 10.92 | 88.54 | 1.55 | 0.24 | 0.50 | 110.44 | 1.00 | 110.44 | 4.000 | No | No | 2.00 |
| 172 | 11.00 | 85.17 | 1.58 | 0.27 | 0.50 | 105.80 | 1.00 | 105.80 | 4.000 | No | No | 2.00 |
| 173 | 11.07 | 82.17 | 1.61 | 0.29 | 0.50 | 101.74 | 1.00 | 101.74 | 4.000 | No | No | 2.00 |
| 174 | 11.10 | 80.21 | 1.63 | 0.30 | 0.50 | 99.18 | 1.00 | 99.18 | 4.000 | No | No | 2.00 |
| 175 | 11.15 | 82.81 | 1.62 | 0.30 | 0.50 | 102.16 | 1.00 | 102.16 | 4.000 | No | No | 2.00 |
| 176 | 11.19 | 85.41 | 1.61 | 0.31 | 0.50 | 105.18 | 1.00 | 105.18 | 4.000 | No | No | 2.00 |
| 177 | 11.24 | 87.43 | 1.61 | 0.32 | 0.50 | 107.45 | 1.00 | 107.45 | 4.000 | No | No | 2.00 |
| 178 | 11.29 | 89.66 | 1.61 | 0.33 | 0.50 | 109.95 | 1.00 | 109.95 | 4.000 | No | No | 2.00 |
| 179 | 11.34 | 92.29 | 1.60 | 0.34 | 0.50 | 112.96 | 1.00 | 112.96 | 4.000 | No | No | 2.00 |
| 180 | 11.40 | 94.89 | 1.60 | 0.35 | 0.50 | 115.81 | 1.00 | 115.81 | 4.000 | No | No | 2.00 |
| 181 | 11.47 | 96.81 | 1.60 | 0.36 | 0.50 | 117.83 | 1.00 | 117.83 | 4.000 | No | No | 2.00 |
| 182 | 11.53 | 97.72 | 1.60 | 0.37 | 0.50 | 118.60 | 1.00 | 118.60 | 4.000 | No | No | 2.00 |
| 183 | 11.58 | 98.23 | 1.60 | 0.37 | 0.50 | 118.97 | 1.00 | 118.97 | 4.000 | No | No | 2.00 |
| 184 | 11.65 | 98.70 | 1.61 | 0.38 | 0.50 | 119.16 | 1.00 | 119.16 | 4.000 | No | No | 2.00 |
| 185 | 11.72 | 99.17 | 1.61 | 0.38 | 0.50 | 119.34 | 1.00 | 119.34 | 4.000 | No | No | 2.00 |
| 186 | 11.77 | 99.00 | 1.61 | 0.39 | 0.50 | 118.88 | 1.00 | 118.88 | 4.000 | No | No | 2.00 |
| 187 | 11.82 | 98.36 | 1.62 | 0.39 | 0.50 | 117.83 | 1.00 | 117.83 | 4.000 | No | No | 2.00 |
| 188 | 11.88 | 97.25 | 1.64 | 0.42 | 0.50 | 116.19 | 1.00 | 116.19 | 4.000 | No | No | 2.00 |
| 189 | 11.97 | 96.10 | 1.65 | 0.43 | 0.50 | 114.49 | 1.00 | 114.49 | 4.000 | No | No | 2.00 |
| 190 | 12.02 | 94.75 | 1.65 | 0.43 | 0.50 | 112.75 | 1.00 | 112.75 | 4.000 | No | No | 2.00 |
| 191 | 12.06 | 93.54 | 1.65 | 0.40 | 0.50 | 110.95 | 1.00 | 110.95 | 4.000 | No | No | 2.00 |
| 192 | 12.11 | 93.03 | 1.65 | 0.40 | 0.50 | 110.11 | 1.00 | 110.11 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 193 | 12.21 | 92.63 | 1.65 | 0.39 | 0.50 | 109.15 | 1.00 | 109.15 | 4.000 | No | No | 2.00 |
| 194 | 12.25 | 92.93 | 1.64 | 0.38 | 0.50 | 109.21 | 1.00 | 109.21 | 4.000 | No | No | 2.00 |
| 195 | 12.30 | 93.00 | 1.64 | 0.38 | 0.50 | 109.05 | 1.00 | 109.05 | 4.000 | No | No | 2.00 |
| 196 | 12.31 | 93.44 | 1.63 | 0.37 | 0.50 | 109.51 | 1.00 | 109.51 | 4.000 | No | No | 2.00 |
| 197 | 12.32 | 93.64 | 1.63 | 0.37 | 0.50 | 109.72 | 1.00 | 109.72 | 4.000 | No | No | 2.00 |
| 198 | 12.35 | 94.21 | 1.62 | 0.36 | 0.50 | 110.25 | 1.00 | 110.25 | 4.000 | No | No | 2.00 |
| 199 | 12.40 | 95.26 | 1.61 | 0.35 | 0.50 | 111.26 | 1.00 | 111.26 | 4.000 | No | No | 2.00 |
| 200 | 12.45 | 96.78 | 1.60 | 0.33 | 0.50 | 112.82 | 1.00 | 112.82 | 4.000 | No | No | 2.00 |
| 201 | 12.52 | 98.43 | 1.60 | 0.33 | 0.50 | 114.40 | 1.00 | 114.40 | 4.000 | No | No | 2.00 |
| 202 | 12.56 | 100.32 | 1.59 | 0.34 | 0.50 | 116.43 | 1.00 | 116.43 | 4.000 | No | No | 2.00 |
| 203 | 12.62 | 102.04 | 1.59 | 0.35 | 0.50 | 118.16 | 1.00 | 118.16 | 4.000 | No | No | 2.00 |
| 204 | 12.65 | 103.69 | 1.56 | 0.31 | 0.50 | 119.90 | 1.00 | 119.90 | 4.000 | No | No | 2.00 |
| 205 | 12.71 | 105.14 | 1.53 | 0.26 | 0.50 | 121.32 | 1.00 | 121.32 | 4.000 | No | No | 2.00 |
| 206 | 12.76 | 107.34 | 1.48 | 0.22 | 0.50 | 123.61 | 1.00 | 123.61 | 4.000 | No | No | 2.00 |
| 207 | 12.83 | 110.34 | 1.48 | 0.23 | 0.50 | 126.74 | 1.00 | 126.74 | 4.000 | No | No | 2.00 |
| 208 | 12.88 | 114.29 | 1.50 | 0.26 | 0.50 | 131.03 | 1.00 | 131.03 | 4.000 | No | No | 2.00 |
| 209 | 12.93 | 118.94 | 1.50 | 0.30 | 0.50 | 136.14 | 1.00 | 136.14 | 4.000 | No | No | 2.00 |
| 210 | 12.98 | 121.44 | 1.52 | 0.33 | 0.50 | 138.73 | 1.00 | 138.73 | 4.000 | No | No | 2.00 |
| 211 | 13.03 | 123.77 | 1.52 | 0.33 | 0.50 | 141.10 | 1.00 | 141.10 | 4.000 | No | No | 2.00 |
| 212 | 13.04 | 120.16 | 1.54 | 0.36 | 0.50 | 136.93 | 1.00 | 136.93 | 4.000 | No | No | 2.00 |
| 213 | 13.07 | 122.72 | 1.54 | 0.38 | 0.50 | 139.66 | 1.00 | 139.66 | 4.000 | No | No | 2.00 |
| 214 | 13.13 | 125.66 | 1.55 | 0.40 | 0.50 | 142.70 | 1.00 | 142.70 | 4.000 | No | No | 2.00 |
| 215 | 13.17 | 134.36 | 1.53 | 0.40 | 0.50 | 152.37 | 1.00 | 152.37 | 4.000 | No | No | 2.00 |
| 216 | 13.22 | 137.87 | 1.53 | 0.42 | 0.50 | 156.08 | 1.00 | 156.08 | 4.000 | No | No | 2.00 |
| 217 | 13.27 | 140.13 | 1.54 | 0.44 | 0.50 | 158.31 | 1.00 | 158.31 | 4.000 | No | No | 2.00 |
| 218 | 13.32 | 141.11 | 1.54 | 0.46 | 0.50 | 159.12 | 1.00 | 159.12 | 4.000 | No | No | 2.00 |
| 219 | 13.37 | 141.28 | 1.55 | 0.47 | 0.50 | 159.00 | 1.00 | 159.00 | 4.000 | No | No | 2.00 |
| 220 | 13.41 | 140.67 | 1.55 | 0.47 | 0.50 | 158.02 | 1.00 | 158.02 | 4.000 | No | No | 2.00 |
| 221 | 13.46 | 139.05 | 1.56 | 0.48 | 0.50 | 155.85 | 1.00 | 155.85 | 4.000 | No | No | 2.00 |
| 222 | 13.51 | 137.63 | 1.57 | 0.48 | 0.50 | 153.98 | 1.00 | 153.98 | 4.000 | No | No | 2.00 |
| 223 | 13.56 | 135.98 | 1.58 | 0.49 | 0.50 | 151.81 | 1.00 | 151.81 | 4.000 | No | No | 2.00 |
| 224 | 13.60 | 134.29 | 1.59 | 0.51 | 0.50 | 149.65 | 1.00 | 149.65 | 4.000 | No | No | 2.00 |
| 225 | 13.66 | 132.81 | 1.60 | 0.52 | 0.50 | 147.65 | 1.00 | 147.65 | 4.000 | No | No | 2.00 |
| 226 | 13.75 | 131.80 | 1.60 | 0.51 | 0.50 | 145.98 | 1.00 | 145.98 | 4.000 | No | No | 2.00 |
| 227 | 13.80 | 131.19 | 1.60 | 0.51 | 0.50 | 145.02 | 1.00 | 145.02 | 4.000 | No | No | 2.00 |
| 228 | 13.89 | 130.75 | 1.61 | 0.51 | 0.50 | 144.01 | 1.00 | 144.01 | 4.000 | No | No | 2.00 |
| 229 | 13.94 | 129.81 | 1.61 | 0.52 | 0.50 | 142.69 | 1.00 | 142.69 | 4.000 | No | No | 2.00 |
| 230 | 13.99 | 128.19 | 1.63 | 0.54 | 0.50 | 140.62 | 1.00 | 140.62 | 4.000 | No | No | 2.00 |
| 231 | 14.09 | 125.39 | 1.65 | 0.57 | 0.50 | 137.21 | 1.00 | 137.21 | 4.000 | No | No | 2.00 |
| 232 | 14.14 | 122.28 | 1.68 | 0.61 | 0.51 | 133.79 | 1.00 | 133.79 | 4.000 | No | No | 2.00 |
| 233 | 14.23 | 119.38 | 1.70 | 0.64 | 0.52 | 130.35 | 1.00 | 130.35 | 4.000 | No | No | 2.00 |
| 234 | 14.28 | 117.19 | 1.68 | 0.58 | 0.51 | 127.54 | 1.00 | 127.54 | 4.000 | No | No | 2.00 |
| 235 | 14.38 | 116.43 | 1.66 | 0.51 | 0.50 | 125.95 | 1.00 | 125.95 | 4.000 | No | No | 2.00 |
| 236 | 14.42 | 115.35 | 1.63 | 0.45 | 0.50 | 124.40 | 1.00 | 124.40 | 4.000 | No | No | 2.00 |
| 237 | 14.52 | 115.79 | 1.63 | 0.45 | 0.50 | 124.40 | 1.00 | 124.40 | 4.000 | No | No | 2.00 |
| 238 | 14.57 | 116.75 | 1.64 | 0.47 | 0.50 | 125.23 | 1.00 | 125.23 | 4.000 | No | No | 2.00 |
| 239 | 14.67 | 117.53 | 1.64 | 0.48 | 0.50 | 125.60 | 1.00 | 125.60 | 4.000 | No | No | 2.00 |
| 240 | 14.68 | 117.83 | 1.64 | 0.49 | 0.50 | 125.93 | 1.00 | 125.93 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 241 | 14.70 | 116.41 | 1.65 | 0.50 | 0.50 | 124.39 | 1.00 | 124.39 | 4.000 | No | No | 2.00 |
| 242 | 14.75 | 116.58 | 1.66 | 0.50 | 0.50 | 124.38 | 1.00 | 124.38 | 4.000 | No | No | 2.00 |
| 243 | 14.80 | 116.18 | 1.66 | 0.51 | 0.51 | 123.80 | 1.00 | 123.80 | 4.000 | No | No | 2.00 |
| 244 | 14.89 | 116.21 | 1.67 | 0.52 | 0.51 | 123.45 | 1.00 | 123.45 | 4.000 | No | No | 2.00 |
| 245 | 14.94 | 114.76 | 1.68 | 0.53 | 0.51 | 121.75 | 1.00 | 121.75 | 4.000 | No | No | 2.00 |
| 246 | 15.04 | 111.83 | 1.69 | 0.54 | 0.52 | 118.29 | 1.00 | 118.29 | 4.000 | No | No | 2.00 |
| 247 | 15.13 | 107.24 | 1.71 | 0.55 | 0.52 | 113.18 | 1.01 | 114.51 | 4.000 | No | No | 2.00 |
| 248 | 15.21 | 101.74 | 1.74 | 0.56 | 0.53 | 107.19 | 1.06 | 113.68 | 4.000 | No | No | 2.00 |
| 249 | 15.28 | 95.87 | 1.76 | 0.57 | 0.54 | 100.87 | 1.10 | 111.36 | 4.000 | No | No | 2.00 |
| 250 | 15.38 | 90.00 | 1.79 | 0.58 | 0.54 | 94.46 | 1.14 | 107.63 | 4.000 | No | No | 2.00 |
| 251 | 15.47 | 83.86 | 1.82 | 0.58 | 0.55 | 87.79 | 1.17 | 102.77 | 4.000 | No | No | 2.00 |
| 252 | 15.57 | 77.55 | 1.85 | 0.59 | 0.56 | 80.97 | 1.20 | 97.12 | 4.000 | No | No | 2.00 |
| 253 | 15.67 | 70.76 | 1.89 | 0.60 | 0.57 | 73.71 | 1.23 | 90.52 | 4.000 | No | No | 2.00 |
| 254 | 15.77 | 63.91 | 1.93 | 0.61 | 0.59 | 66.40 | 1.26 | 83.47 | 4.000 | No | No | 2.00 |
| 255 | 15.86 | 57.27 | 1.98 | 0.63 | 0.60 | 59.33 | 1.29 | 76.63 | 4.000 | No | No | 2.00 |
| 256 | 15.96 | 51.73 | 2.03 | 0.67 | 0.62 | 53.45 | 1.34 | 71.45 | 4.000 | No | No | 2.00 |
| 257 | 16.05 | 47.31 | 2.09 | 0.73 | 0.63 | 48.75 | 1.40 | 68.25 | 4.000 | No | No | 2.00 |
| 258 | 16.15 | 43.60 | 2.15 | 0.86 | 0.65 | 44.83 | 1.51 | 67.79 | 4.000 | No | No | 2.00 |
| 259 | 16.25 | 41.11 | 2.20 | 0.97 | 0.67 | 42.13 | 1.63 | 68.47 | 4.000 | No | No | 2.00 |
| 260 | 16.31 | 39.86 | 2.23 | 1.04 | 0.68 | 40.76 | 1.71 | 69.57 | 4.000 | No | No | 2.00 |
| 261 | 16.39 | 39.72 | 2.23 | 1.02 | 0.68 | 40.48 | 1.70 | 68.78 | 4.000 | No | No | 2.00 |
| 262 | 16.48 | 40.50 | 2.21 | 0.96 | 0.67 | 41.08 | 1.65 | 67.59 | 4.000 | No | No | 2.00 |
| 263 | 16.59 | 43.06 | 2.17 | 0.86 | 0.66 | 43.47 | 1.53 | 66.70 | 4.000 | No | No | 2.00 |
| 264 | 16.68 | 47.95 | 2.09 | 0.73 | 0.64 | 48.20 | 1.40 | 67.68 | 4.000 | No | No | 2.00 |
| 265 | 16.76 | 53.89 | 2.01 | 0.61 | 0.61 | 53.96 | 1.31 | 70.90 | 4.000 | No | No | 2.00 |
| 266 | 16.86 | 58.72 | 1.95 | 0.54 | 0.59 | 58.53 | 1.27 | 74.31 | 4.000 | No | No | 2.00 |
| 267 | 16.92 | 61.25 | 1.92 | 0.51 | 0.58 | 60.90 | 1.25 | 76.25 | 4.000 | No | No | 2.00 |
| 268 | 17.02 | 61.65 | 1.92 | 0.50 | 0.58 | 61.10 | 1.25 | 76.36 | 4.000 | No | No | 2.00 |
| 269 | 17.11 | 61.14 | 1.94 | 0.53 | 0.59 | 60.41 | 1.26 | 76.12 | 4.000 | No | No | 2.00 |
| 270 | 17.22 | 60.40 | 1.96 | 0.58 | 0.60 | 59.48 | 1.28 | 75.94 | 4.000 | Yes | No | 2.00 |
| 271 | 17.35 | 58.51 | 2.04 | 0.78 | 0.62 | 57.44 | 1.34 | 77.19 | 4.000 | Yes | No | 2.00 |
| 272 | 17.45 | 53.15 | 2.18 | 1.20 | 0.66 | 52.07 | 1.57 | 81.76 | 4.000 | Yes | No | 2.00 |
| 273 | 17.55 | 43.40 | 2.38 | 1.91 | 0.72 | 42.36 | 2.26 | 95.58 | 4.000 | Yes | No | 2.00 |
| 274 | 17.61 | 33.92 | 2.57 | 2.79 | 0.78 | 32.93 | 3.48 | 114.42 | 4.000 | Yes | No | 2.00 |
| 275 | 17.64 | 27.41 | 2.70 | 3.46 | 0.82 | 26.45 | 4.70 | 124.38 | 4.000 | Yes | Yes | 2.00 |
| 276 | 17.70 | 24.84 | 2.75 | 3.68 | 0.83 | 23.84 | 5.27 | 125.58 | 4.000 | Yes | Yes | 2.00 |
| 277 | 17.75 | 23.12 | 2.79 | 3.84 | 0.84 | 22.09 | 5.71 | 126.01 | 4.000 | Yes | Yes | 2.00 |
| 278 | 17.80 | 22.04 | 2.82 | 4.00 | 0.85 | 20.96 | 6.07 | 127.17 | 4.000 | Yes | Yes | 2.00 |
| 279 | 17.85 | 21.57 | 2.85 | 4.36 | 0.86 | 20.45 | 6.49 | 132.79 | 4.000 | Yes | Yes | 2.00 |
| 280 | 17.94 | 24.37 | 2.80 | 4.19 | 0.85 | 23.10 | 5.83 | 134.72 | 4.000 | No | Yes | 2.00 |
| 281 | 17.99 | 29.74 | 2.70 | 3.80 | 0.82 | 28.29 | 4.75 | 134.51 | 4.000 | No | Yes | 2.00 |
| 282 | 18.09 | 36.42 | 2.60 | 3.34 | 0.79 | 34.65 | 3.76 | 130.35 | 4.000 | No | Yes | 2.00 |
| 283 | 18.15 | 38.34 | 2.58 | 3.31 | 0.78 | 36.42 | 3.61 | 131.44 | 4.000 | No | No | 2.00 |
| 284 | 18.23 | 36.08 | 2.63 | 3.58 | 0.80 | 34.09 | 3.99 | 135.89 | 4.000 | No | Yes | 2.00 |
| 285 | 18.33 | 27.03 | 2.80 | 4.68 | 0.85 | 25.22 | 5.88 | 148.20 | 4.000 | No | Yes | 2.00 |
| 286 | 18.43 | 18.43 | 3.01 | 6.17 | 1.00 | 16.85 | 8.99 | 151.54 | 4.000 | No | Yes | 2.00 |
| 287 | 18.52 | 11.28 | 3.27 | 8.30 | 1.00 | 9.87 | 14.46 | 142.66 | 4.000 | No | Yes | 2.00 |
| 288 | 18.59 | 9.25 | 3.30 | 7.06 | 1.00 | 7.88 | 15.23 | 120.07 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 289 | 18.72 | 8.44 | 3.27 | 5.49 | 1.00 | 7.05 | 14.48 | 102.14 | 4.000 | No | Yes | 2.00 |
| 290 | 18.81 | 7.87 | 3.26 | 4.64 | 1.00 | 6.47 | 14.17 | 91.69 | 4.000 | No | Yes | 2.00 |
| 291 | 18.87 | 7.73 | 3.27 | 4.61 | 1.00 | 6.32 | 14.34 | 90.62 | 4.000 | No | Yes | 2.00 |
| 292 | 18.95 | 7.94 | 3.28 | 5.10 | 1.00 | 6.48 | 14.76 | 95.67 | 4.000 | No | Yes | 2.00 |
| 293 | 19.05 | 8.95 | 3.24 | 5.23 | 1.00 | 7.39 | 13.77 | 101.75 | 4.000 | No | Yes | 2.00 |
| 294 | 19.14 | 11.32 | 3.12 | 4.53 | 1.00 | 9.56 | 10.96 | 104.74 | 4.000 | No | Yes | 2.00 |
| 295 | 19.22 | 15.43 | 2.92 | 3.38 | 0.89 | 13.37 | 7.56 | 101.14 | 4.000 | Yes | Yes | 2.00 |
| 296 | 19.29 | 23.29 | 2.67 | 2.31 | 0.81 | 20.64 | 4.44 | 91.70 | 4.000 | Yes | Yes | 2.00 |
| 297 | 19.38 | 36.79 | 2.41 | 1.58 | 0.73 | 33.12 | 2.43 | 80.52 | 4.000 | Yes | No | 2.00 |
| 298 | 19.44 | 54.77 | 2.21 | 1.24 | 0.67 | 49.78 | 1.63 | 81.04 | 4.000 | Yes | No | 2.00 |
| 299 | 19.53 | 73.63 | 2.06 | 1.07 | 0.63 | 67.13 | 1.37 | 92.11 | 4.000 | Yes | No | 2.00 |
| 300 | 19.62 | 89.35 | 1.99 | 1.02 | 0.60 | 81.50 | 1.30 | 105.61 | 4.000 | Yes | No | 2.00 |
| 301 | 19.69 | 100.62 | 1.95 | 1.03 | 0.59 | 91.73 | 1.27 | 116.28 | 4.000 | Yes | No | 2.00 |
| 302 | 19.79 | 106.79 | 1.94 | 1.07 | 0.59 | 97.11 | 1.26 | 122.62 | 4.000 | No | No | 2.00 |
| 303 | 19.86 | 108.17 | 1.96 | 1.16 | 0.60 | 98.11 | 1.28 | 125.15 | 4.000 | No | No | 2.00 |
| 304 | 19.97 | 105.91 | 1.99 | 1.25 | 0.60 | 95.65 | 1.30 | 124.06 | 4.000 | No | No | 2.00 |
| 305 | 20.07 | 101.09 | 2.02 | 1.32 | 0.61 | 90.89 | 1.33 | 120.48 | 4.000 | No | No | 2.00 |
| 306 | 20.16 | 94.14 | 2.06 | 1.40 | 0.63 | 84.23 | 1.37 | 115.28 | 4.000 | No | No | 2.00 |
| 307 | 20.26 | 84.49 | 2.07 | 1.27 | 0.63 | 75.23 | 1.38 | 103.79 | 4.000 | Yes | No | 2.00 |
| 308 | 20.34 | 72.68 | 2.10 | 1.18 | 0.64 | 64.34 | 1.43 | 91.71 | 4.000 | Yes | No | 2.00 |
| 309 | 20.43 | 59.83 | 2.16 | 1.11 | 0.66 | 52.55 | 1.52 | 80.02 | 4.000 | Yes | No | 2.00 |
| 310 | 20.50 | 47.95 | 2.33 | 1.55 | 0.71 | 41.63 | 2.03 | 84.51 | 4.000 | Yes | No | 2.00 |
| 311 | 20.60 | 37.70 | 2.50 | 2.17 | 0.76 | 32.23 | 3.01 | 96.91 | 4.000 | Yes | No | 2.00 |
| 312 | 20.62 | 30.48 | 2.66 | 2.88 | 0.81 | 25.73 | 4.28 | 110.02 | 4.000 | Yes | Yes | 2.00 |
| 313 | 20.63 | 28.08 | 2.72 | 3.22 | 0.82 | 23.58 | 4.89 | 115.31 | 4.000 | Yes | Yes | 2.00 |
| 314 | 20.68 | 27.74 | 2.74 | 3.38 | 0.83 | 23.22 | 5.10 | 118.43 | 4.000 | Yes | Yes | 2.00 |
| 315 | 20.73 | 27.64 | 2.76 | 3.60 | 0.83 | 23.06 | 5.32 | 122.67 | 4.000 | Yes | Yes | 2.00 |
| 316 | 20.82 | 25.48 | 2.82 | 4.04 | 0.85 | 21.06 | 6.08 | 128.12 | 4.000 | Yes | Yes | 2.00 |
| 317 | 20.87 | 23.45 | 2.87 | 4.37 | 0.87 | 19.23 | 6.78 | 130.45 | 4.000 | Yes | Yes | 2.00 |
| 318 | 20.91 | 21.57 | 2.91 | 4.48 | 0.88 | 17.54 | 7.32 | 128.42 | 4.000 | Yes | Yes | 2.00 |
| 319 | 20.96 | 19.58 | 2.95 | 4.54 | 1.00 | 15.59 | 7.98 | 124.40 | 4.000 | Yes | Yes | 2.00 |
| 320 | 21.05 | 17.59 | 3.00 | 4.73 | 1.00 | 13.84 | 8.82 | 122.12 | 4.000 | No | Yes | 2.00 |
| 321 | 21.11 | 16.98 | 3.02 | 4.74 | 1.00 | 13.29 | 9.07 | 120.49 | 4.000 | No | Yes | 2.00 |
| 322 | 21.17 | 17.11 | 3.01 | 4.72 | 1.00 | 13.36 | 9.02 | 120.44 | 4.000 | No | Yes | 2.00 |
| 323 | 21.25 | 21.23 | 2.88 | 3.84 | 0.87 | 17.01 | 6.86 | 116.62 | 4.000 | Yes | Yes | 2.00 |
| 324 | 21.30 | 31.25 | 2.64 | 2.71 | 0.80 | 25.68 | 4.13 | 106.03 | 4.000 | Yes | Yes | 2.00 |
| 325 | 21.37 | 48.56 | 2.39 | 1.90 | 0.72 | 40.77 | 2.31 | 94.37 | 4.000 | Yes | No | 2.00 |
| 326 | 21.45 | 68.84 | 2.20 | 1.51 | 0.67 | 58.49 | 1.62 | 94.86 | 4.000 | Yes | No | 2.00 |
| 327 | 21.49 | 87.80 | 2.09 | 1.36 | 0.64 | 75.10 | 1.41 | 105.59 | 4.000 | Yes | No | 2.00 |
| 328 | 21.58 | 103.45 | 2.02 | 1.30 | 0.62 | 88.68 | 1.33 | 117.80 | 4.000 | Yes | No | 2.00 |
| 329 | 21.64 | 115.70 | 1.98 | 1.28 | 0.60 | 99.28 | 1.29 | 128.46 | 4.000 | Yes | No | 2.00 |
| 330 | 21.69 | 124.50 | 1.96 | 1.29 | 0.60 | 106.86 | 1.28 | 136.49 | 4.000 | Yes | No | 2.00 |
| 331 | 21.78 | 130.41 | 1.95 | 1.31 | 0.59 | 111.69 | 1.27 | 142.03 | 4.000 | No | No | 2.00 |
| 332 | 21.83 | 133.78 | 1.96 | 1.36 | 0.59 | 114.42 | 1.27 | 145.79 | 4.000 | No | No | 2.00 |
| 333 | 21.89 | 135.43 | 1.97 | 1.42 | 0.60 | 115.57 | 1.28 | 148.03 | 4.000 | No | No | 2.00 |
| 334 | 21.98 | 136.01 | 1.98 | 1.49 | 0.60 | 115.67 | 1.29 | 149.32 | 4.000 | No | No | 2.00 |
| 335 | 22.03 | 135.90 | 1.99 | 1.55 | 0.61 | 115.31 | 1.30 | 150.06 | 4.000 | No | No | 2.00 |
| 336 | 22.12 | 134.89 | 2.01 | 1.60 | 0.61 | 114.06 | 1.31 | 149.60 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 337 | 22.22 | 133.20 | 2.02 | 1.63 | 0.61 | 112.20 | 1.32 | 148.31 | 4.000 | No | No | 2.00 |
| 338 | 22.26 | 130.88 | 2.03 | 1.65 | 0.62 | 110.01 | 1.33 | 146.45 | 4.000 | No | No | 2.00 |
| 339 | 22.36 | 128.38 | 2.04 | 1.67 | 0.62 | 107.52 | 1.34 | 144.21 | 4.000 | No | No | 2.00 |
| 340 | 22.41 | 125.79 | 2.05 | 1.70 | 0.62 | 105.07 | 1.36 | 142.38 | 4.000 | No | No | 2.00 |
| 341 | 22.51 | 123.53 | 2.04 | 1.63 | 0.62 | 102.88 | 1.35 | 138.65 | 4.000 | No | No | 2.00 |
| 342 | 22.60 | 121.33 | 2.03 | 1.54 | 0.62 | 100.82 | 1.34 | 134.71 | 4.000 | No | No | 2.00 |
| 343 | 22.70 | 119.34 | 2.01 | 1.41 | 0.61 | 98.95 | 1.32 | 130.43 | 4.000 | No | No | 2.00 |
| 344 | 22.75 | 116.88 | 2.02 | 1.40 | 0.61 | 96.72 | 1.32 | 127.90 | 4.000 | No | No | 2.00 |
| 345 | 22.84 | 109.32 | 2.05 | 1.47 | 0.62 | 89.92 | 1.36 | 122.31 | 4.000 | No | No | 2.00 |
| 346 | 22.89 | 107.14 | 2.06 | 1.48 | 0.63 | 87.93 | 1.37 | 120.57 | 4.000 | No | No | 2.00 |
| 347 | 22.90 | 104.88 | 2.07 | 1.49 | 0.63 | 85.98 | 1.38 | 118.82 | 4.000 | No | No | 2.00 |
| 348 | 22.94 | 110.11 | 2.04 | 1.39 | 0.62 | 90.42 | 1.34 | 121.26 | 4.000 | No | No | 2.00 |
| 349 | 23.00 | 112.36 | 2.02 | 1.34 | 0.61 | 92.21 | 1.32 | 122.07 | 4.000 | No | No | 2.00 |
| 350 | 23.08 | 118.94 | 1.98 | 1.24 | 0.60 | 97.70 | 1.29 | 126.15 | 4.000 | No | No | 2.00 |
| 351 | 23.13 | 127.04 | 1.94 | 1.16 | 0.59 | 104.57 | 1.26 | 131.91 | 4.000 | No | No | 2.00 |
| 352 | 23.20 | 134.05 | 1.90 | 1.10 | 0.58 | 110.43 | 1.24 | 136.83 | 4.000 | No | No | 2.00 |
| 353 | 23.27 | 137.05 | 1.89 | 1.07 | 0.57 | 112.81 | 1.23 | 138.66 | 4.000 | No | No | 2.00 |
| 354 | 23.33 | 135.57 | 1.89 | 1.05 | 0.57 | 111.40 | 1.23 | 136.90 | 4.000 | No | No | 2.00 |
| 355 | 23.42 | 131.55 | 1.89 | 1.03 | 0.58 | 107.76 | 1.23 | 132.83 | 4.000 | No | No | 2.00 |
| 356 | 23.48 | 126.94 | 1.90 | 1.01 | 0.58 | 103.73 | 1.24 | 128.30 | 4.000 | No | No | 2.00 |
| 357 | 23.57 | 123.16 | 1.91 | 1.00 | 0.58 | 100.30 | 1.24 | 124.68 | 4.000 | No | No | 2.00 |
| 358 | 23.61 | 121.20 | 1.92 | 1.01 | 0.58 | 98.52 | 1.25 | 122.97 | 4.000 | No | No | 2.00 |
| 359 | 23.66 | 121.50 | 1.92 | 1.02 | 0.58 | 98.62 | 1.25 | 123.25 | 4.000 | No | No | 2.00 |
| 360 | 23.73 | 124.04 | 1.92 | 1.03 | 0.58 | 100.52 | 1.25 | 125.44 | 4.000 | No | No | 2.00 |
| 361 | 23.80 | 127.95 | 1.91 | 1.04 | 0.58 | 103.59 | 1.24 | 128.73 | 4.000 | No | No | 2.00 |
| 362 | 23.85 | 131.96 | 1.90 | 1.05 | 0.58 | 106.79 | 1.24 | 132.25 | 4.000 | No | No | 2.00 |
| 363 | 23.94 | 134.80 | 1.90 | 1.06 | 0.58 | 108.87 | 1.24 | 134.50 | 4.000 | No | No | 2.00 |
| 364 | 24.00 | 135.88 | 1.90 | 1.07 | 0.58 | 109.59 | 1.24 | 135.41 | 4.000 | No | No | 2.00 |
| 365 | 24.09 | 135.37 | 1.90 | 1.07 | 0.58 | 108.86 | 1.24 | 134.81 | 4.000 | No | No | 2.00 |
| 366 | 24.16 | 133.34 | 1.91 | 1.09 | 0.58 | 106.93 | 1.24 | 133.09 | 4.000 | No | No | 2.00 |
| 367 | 24.24 | 130.04 | 1.89 | 0.97 | 0.57 | 104.25 | 1.23 | 128.02 | 4.000 | No | No | 2.00 |
| 368 | 24.33 | 125.79 | 1.86 | 0.85 | 0.57 | 100.75 | 1.21 | 122.05 | 4.000 | No | No | 2.00 |
| 369 | 24.43 | 121.10 | 1.84 | 0.74 | 0.56 | 96.90 | 1.19 | 115.53 | 4.000 | No | No | 2.00 |
| 370 | 24.52 | 114.28 | 1.88 | 0.80 | 0.57 | 90.85 | 1.23 | 111.31 | 4.000 | No | No | 2.00 |
| 371 | 24.58 | 108.90 | 1.92 | 0.85 | 0.58 | 86.13 | 1.25 | 107.54 | 4.000 | No | No | 2.00 |
| 372 | 24.59 | 104.52 | 1.95 | 0.89 | 0.59 | 82.40 | 1.27 | 104.41 | 4.000 | No | No | 2.00 |
| 373 | 24.63 | 104.21 | 1.95 | 0.90 | 0.59 | 82.05 | 1.27 | 104.24 | 4.000 | No | No | 2.00 |
| 374 | 24.68 | 103.45 | 1.96 | 0.94 | 0.60 | 81.24 | 1.28 | 103.96 | 4.000 | No | No | 2.00 |
| 375 | 24.77 | 102.47 | 1.98 | 0.98 | 0.60 | 80.14 | 1.29 | 103.52 | 4.000 | No | No | 2.00 |
| 376 | 24.82 | 100.31 | 2.01 | 1.05 | 0.61 | 78.15 | 1.31 | 102.59 | 4.000 | No | No | 2.00 |
| 377 | 24.92 | 97.85 | 2.03 | 1.11 | 0.62 | 75.83 | 1.34 | 101.32 | 4.000 | No | No | 2.00 |
| 378 | 25.01 | 95.22 | 2.06 | 1.17 | 0.63 | 73.42 | 1.36 | 100.09 | 4.000 | No | No | 2.00 |
| 379 | 25.06 | 92.38 | 2.08 | 1.22 | 0.63 | 70.94 | 1.39 | 98.75 | 4.000 | No | No | 2.00 |
| 380 | 25.16 | 89.48 | 2.10 | 1.27 | 0.64 | 68.36 | 1.42 | 97.29 | 4.000 | No | No | 2.00 |
| 381 | 25.25 | 86.51 | 2.13 | 1.31 | 0.65 | 65.75 | 1.46 | 95.92 | 4.000 | No | No | 2.00 |
| 382 | 25.30 | 83.55 | 2.15 | 1.35 | 0.65 | 63.24 | 1.50 | 94.77 | 4.000 | No | No | 2.00 |
| 383 | 25.41 | 80.44 | 2.17 | 1.40 | 0.66 | 60.52 | 1.55 | 93.81 | 4.000 | Yes | No | 2.00 |
| 384 | 25.49 | 77.27 | 2.20 | 1.47 | 0.67 | 57.80 | 1.61 | 93.24 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 385 | 25.55 | 73.97 | 2.23 | 1.55 | 0.68 | 55.02 | 1.70 | 93.42 | 4.000 | Yes | No | 2.00 |
| 386 | 25.64 | 70.59 | 2.27 | 1.65 | 0.69 | 52.13 | 1.81 | 94.24 | 4.000 | Yes | No | 2.00 |
| 387 | 25.70 | 67.02 | 2.31 | 1.78 | 0.70 | 49.15 | 1.95 | 95.94 | 4.000 | Yes | No | 2.00 |
| 388 | 25.79 | 63.24 | 2.35 | 1.91 | 0.71 | 46.00 | 2.13 | 97.75 | 4.000 | Yes | No | 2.00 |
| 389 | 25.89 | 58.92 | 2.40 | 2.05 | 0.73 | 42.45 | 2.35 | 99.94 | 4.000 | Yes | No | 2.00 |
| 390 | 25.94 | 54.26 | 2.45 | 2.20 | 0.74 | 38.75 | 2.63 | 101.97 | 4.000 | Yes | No | 2.00 |
| 391 | 26.02 | 49.37 | 2.50 | 2.32 | 0.76 | 34.89 | 2.95 | 102.81 | 4.000 | Yes | No | 2.00 |
| 392 | 26.12 | 45.05 | 2.54 | 2.37 | 0.77 | 31.51 | 3.23 | 101.92 | 4.000 | Yes | No | 2.00 |
| 393 | 26.17 | 40.83 | 2.57 | 2.37 | 0.78 | 28.31 | 3.52 | 99.58 | 4.000 | Yes | No | 2.00 |
| 394 | 26.28 | 37.02 | 2.61 | 2.37 | 0.79 | 25.37 | 3.84 | 97.30 | 4.000 | Yes | Yes | 2.00 |
| 395 | 26.36 | 33.31 | 2.65 | 2.33 | 0.80 | 22.57 | 4.17 | 94.10 | 4.000 | Yes | Yes | 2.00 |
| 396 | 26.45 | 29.43 | 2.70 | 2.37 | 0.82 | 19.65 | 4.69 | 92.22 | 4.000 | Yes | Yes | 2.00 |
| 397 | 26.50 | 24.94 | 2.78 | 2.55 | 0.84 | 16.31 | 5.63 | 91.86 | 4.000 | Yes | Yes | 2.00 |
| 398 | 26.61 | 20.15 | 2.91 | 3.01 | 0.88 | 12.75 | 7.37 | 93.95 | 4.000 | Yes | Yes | 2.00 |
| 399 | 26.70 | 15.97 | 3.07 | 3.75 | 1.00 | 9.43 | 10.10 | 95.23 | 4.000 | No | Yes | 2.00 |
| 400 | 26.77 | 12.97 | 3.21 | 4.62 | 1.00 | 7.45 | 12.95 | 96.46 | 4.000 | No | Yes | 2.00 |
| 401 | 26.85 | 11.85 | 3.26 | 4.83 | 1.00 | 6.70 | 14.12 | 94.58 | 4.000 | No | Yes | 2.00 |
| 402 | 26.94 | 11.45 | 3.27 | 4.67 | 1.00 | 6.41 | 14.29 | 91.60 | 4.000 | No | Yes | 2.00 |
| 403 | 27.04 | 11.95 | 3.22 | 4.13 | 1.00 | 6.71 | 13.15 | 88.25 | 4.000 | No | Yes | 2.00 |
| 404 | 27.14 | 12.22 | 3.20 | 3.92 | 1.00 | 6.86 | 12.68 | 86.95 | 4.000 | No | Yes | 2.00 |
| 405 | 27.23 | 12.90 | 3.15 | 3.53 | 1.00 | 7.27 | 11.66 | 84.75 | 4.000 | No | Yes | 2.00 |
| 406 | 27.28 | 13.22 | 3.13 | 3.30 | 1.00 | 7.46 | 11.13 | 83.02 | 4.000 | No | Yes | 2.00 |
| 407 | 27.29 | 13.29 | 3.09 | 2.84 | 1.00 | 7.50 | 10.38 | 77.81 | 4.000 | No | Yes | 2.00 |
| 408 | 27.38 | 13.29 | 3.07 | 2.57 | 1.00 | 7.47 | 9.96 | 74.44 | 4.000 | No | Yes | 2.00 |
| 409 | 27.48 | 13.27 | 3.06 | 2.51 | 1.00 | 7.43 | 9.89 | 73.48 | 4.000 | No | Yes | 2.00 |
| 410 | 27.57 | 13.27 | 3.10 | 2.97 | 1.00 | 7.41 | 10.67 | 79.00 | 4.000 | No | Yes | 2.00 |
| 411 | 27.64 | 13.30 | 3.13 | 3.39 | 1.00 | 7.41 | 11.31 | 83.76 | 4.000 | No | Yes | 2.00 |
| 412 | 27.65 | 13.44 | 3.17 | 3.99 | 1.00 | 7.49 | 12.08 | 90.43 | 4.000 | No | Yes | 2.00 |
| 413 | 27.74 | 14.52 | 3.16 | 4.27 | 1.00 | 8.14 | 11.82 | 96.17 | 4.000 | No | Yes | 2.00 |
| 414 | 27.80 | 16.91 | 3.10 | 4.34 | 1.00 | 9.63 | 10.69 | 102.90 | 4.000 | No | Yes | 2.00 |
| 415 | 27.90 | 19.17 | 3.05 | 4.16 | 1.00 | 11.00 | 9.59 | 105.58 | 4.000 | No | Yes | 2.00 |
| 416 | 27.99 | 19.34 | 3.05 | 4.25 | 1.00 | 11.07 | 9.67 | 106.99 | 4.000 | No | Yes | 2.00 |
| 417 | 28.07 | 17.12 | 3.11 | 4.55 | 1.00 | 9.65 | 10.91 | 105.31 | 4.000 | No | Yes | 2.00 |
| 418 | 28.16 | 14.45 | 3.20 | 4.79 | 1.00 | 7.96 | 12.63 | 100.58 | 4.000 | No | Yes | 2.00 |
| 419 | 28.25 | 12.53 | 3.25 | 4.68 | 1.00 | 6.75 | 13.86 | 93.48 | 4.000 | No | Yes | 2.00 |
| 420 | 28.34 | 11.52 | 3.26 | 4.24 | 1.00 | 6.10 | 14.13 | 86.20 | 4.000 | No | Yes | 2.00 |
| 421 | 28.44 | 11.01 | 3.26 | 3.94 | 1.00 | 5.76 | 14.19 | 81.77 | 4.000 | No | Yes | 2.00 |
| 422 | 28.53 | 10.84 | 3.26 | 3.87 | 1.00 | 5.64 | 14.27 | 80.51 | 4.000 | No | Yes | 2.00 |
| 423 | 28.62 | 11.75 | 3.26 | 4.25 | 1.00 | 6.17 | 14.04 | 86.70 | 4.000 | No | Yes | 2.00 |
| 424 | 28.76 | 14.21 | 3.19 | 4.46 | 1.00 | 7.64 | 12.54 | 95.81 | 4.000 | No | Yes | 2.00 |
| 425 | 28.86 | 17.65 | 3.12 | 4.75 | 1.00 | 9.69 | 11.11 | 107.72 | 4.000 | No | Yes | 2.00 |
| 426 | 28.96 | 20.32 | 3.09 | 5.14 | 1.00 | 11.26 | 10.51 | 118.36 | 4.000 | No | Yes | 2.00 |
| 427 | 29.08 | 21.30 | 3.12 | 6.06 | 1.00 | 11.80 | 11.10 | 130.98 | 4.000 | No | Yes | 2.00 |
| 428 | 29.19 | 22.07 | 3.15 | 6.87 | 1.00 | 12.21 | 11.60 | 141.58 | 4.000 | No | Yes | 2.00 |
| 429 | 29.29 | 27.50 | 2.99 | 5.17 | 1.00 | 15.40 | 8.64 | 133.06 | 4.000 | No | Yes | 2.00 |
| 430 | 29.39 | 40.70 | 2.74 | 3.77 | 0.83 | 25.08 | 5.15 | 129.21 | 4.000 | No | Yes | 2.00 |
| 431 | 29.50 | 57.67 | 2.55 | 3.03 | 0.77 | 36.81 | 3.37 | 124.06 | 4.000 | No | No | 2.00 |
| 432 | 29.63 | 66.88 | 2.53 | 3.30 | 0.77 | 42.86 | 3.19 | 136.79 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 433 | 29.65 | 70.22 | 2.52 | 3.39 | 0.76 | 45.09 | 3.13 | 141.18 | 4.000 | Yes | No | 2.00 |
| 434 | 29.66 | 71.00 | 2.52 | 3.38 | 0.76 | 45.61 | 3.10 | 141.50 | 4.000 | Yes | No | 2.00 |
| 435 | 29.72 | 73.53 | 2.50 | 3.27 | 0.76 | 47.34 | 2.95 | 139.57 | 4.000 | Yes | No | 2.00 |
| 436 | 29.80 | 77.81 | 2.46 | 3.07 | 0.75 | 50.31 | 2.70 | 135.94 | 4.000 | Yes | No | 2.00 |
| 437 | 29.85 | 89.49 | 2.36 | 2.59 | 0.72 | 58.79 | 2.17 | 127.49 | 4.000 | Yes | No | 2.00 |
| 438 | 29.94 | 111.58 | 2.20 | 2.00 | 0.67 | 75.08 | 1.62 | 121.89 | 4.000 | Yes | No | 2.00 |
| 439 | 30.00 | 135.50 | 2.06 | 1.57 | 0.63 | 93.20 | 1.37 | 127.60 | 4.000 | Yes | No | 2.00 |
| 440 | 30.05 | 152.98 | 1.96 | 1.28 | 0.60 | 106.83 | 1.28 | 136.43 | 4.000 | Yes | No | 2.00 |
| 441 | 30.14 | 162.60 | 1.89 | 1.09 | 0.58 | 114.57 | 1.23 | 140.95 | 4.000 | Yes | No | 2.00 |
| 442 | 30.19 | 167.56 | 1.84 | 0.97 | 0.56 | 118.78 | 1.20 | 142.08 | 4.000 | Yes | No | 2.00 |
| 443 | 30.24 | 169.61 | 1.83 | 0.93 | 0.56 | 120.45 | 1.18 | 142.19 | 4.000 | Yes | No | 2.00 |
| 444 | 30.29 | 169.68 | 1.83 | 0.93 | 0.56 | 120.31 | 1.18 | 142.38 | 0.348 | No | No | 1.91 |
| 445 | 30.38 | 167.72 | 1.84 | 0.95 | 0.56 | 118.51 | 1.19 | 141.39 | 0.343 | No | No | 1.88 |
| 446 | 30.43 | 164.79 | 1.85 | 0.98 | 0.56 | 116.05 | 1.20 | 139.76 | 0.334 | No | No | 1.83 |
| 447 | 30.48 | 161.62 | 1.87 | 0.99 | 0.57 | 113.47 | 1.21 | 137.67 | 0.323 | No | No | 1.77 |
| 448 | 30.54 | 159.16 | 1.87 | 1.00 | 0.57 | 111.46 | 1.22 | 135.86 | 0.313 | No | No | 1.71 |
| 449 | 30.62 | 158.35 | 1.87 | 0.99 | 0.57 | 110.69 | 1.22 | 134.98 | 0.309 | No | No | 1.69 |
| 450 | 30.67 | 157.77 | 1.87 | 0.99 | 0.57 | 110.16 | 1.22 | 134.34 | 0.305 | No | No | 1.67 |
| 451 | 30.72 | 158.55 | 1.87 | 0.98 | 0.57 | 110.67 | 1.22 | 134.61 | 0.307 | No | No | 1.67 |
| 452 | 30.76 | 159.46 | 1.86 | 0.96 | 0.57 | 111.32 | 1.21 | 134.89 | 0.308 | No | No | 1.68 |
| 453 | 30.86 | 162.06 | 1.85 | 0.94 | 0.56 | 113.16 | 1.20 | 135.92 | 0.314 | No | No | 1.71 |
| 454 | 30.91 | 165.09 | 1.84 | 0.91 | 0.56 | 115.46 | 1.19 | 137.26 | 0.321 | No | No | 1.74 |
| 455 | 30.95 | 168.94 | 1.82 | 0.88 | 0.55 | 118.37 | 1.17 | 138.94 | 0.329 | No | No | 1.79 |
| 456 | 31.03 | 173.83 | 1.80 | 0.85 | 0.55 | 122.03 | 1.15 | 140.71 | 0.339 | No | No | 1.84 |
| 457 | 31.10 | 179.36 | 1.78 | 0.83 | 0.54 | 126.19 | 1.13 | 142.33 | 0.348 | No | No | 1.89 |
| 458 | 31.15 | 185.03 | 1.76 | 0.81 | 0.54 | 130.44 | 1.10 | 144.07 | 0.358 | No | No | 1.94 |
| 459 | 31.20 | 189.66 | 1.75 | 0.81 | 0.53 | 133.76 | 1.09 | 146.05 | 0.370 | No | No | 2.00 |
| 460 | 31.26 | 192.52 | 1.75 | 0.82 | 0.53 | 135.69 | 1.09 | 147.81 | 0.380 | No | No | 2.00 |
| 461 | 31.34 | 186.22 | 1.78 | 0.86 | 0.54 | 130.42 | 1.13 | 147.23 | 0.377 | No | No | 2.00 |
| 462 | 31.37 | 184.63 | 1.79 | 0.87 | 0.54 | 129.08 | 1.14 | 146.99 | 0.375 | No | No | 2.00 |
| 463 | 31.38 | 181.39 | 1.80 | 0.89 | 0.55 | 126.56 | 1.15 | 145.70 | 0.368 | No | No | 1.99 |
| 464 | 31.43 | 184.63 | 1.78 | 0.86 | 0.54 | 129.02 | 1.13 | 146.17 | 0.370 | No | No | 2.00 |
| 465 | 31.47 | 179.33 | 1.80 | 0.87 | 0.55 | 124.92 | 1.15 | 143.44 | 0.354 | No | No | 1.91 |
| 466 | 31.55 | 171.64 | 1.82 | 0.88 | 0.55 | 118.91 | 1.17 | 139.35 | 0.332 | No | No | 1.79 |
| 467 | 31.59 | 160.34 | 1.86 | 0.93 | 0.57 | 110.19 | 1.21 | 132.93 | 0.298 | No | No | 1.61 |
| 468 | 31.66 | 147.76 | 1.91 | 1.00 | 0.58 | 100.47 | 1.24 | 124.83 | 0.261 | No | No | 1.40 |
| 469 | 31.73 | 135.75 | 1.97 | 1.09 | 0.60 | 91.20 | 1.28 | 116.80 | 0.228 | No | No | 1.23 |
| 470 | 31.78 | 125.08 | 2.02 | 1.21 | 0.62 | 83.04 | 1.33 | 110.36 | 0.205 | No | No | 1.10 |
| 471 | 31.84 | 115.64 | 2.09 | 1.36 | 0.63 | 75.76 | 1.40 | 106.34 | 0.192 | No | No | 1.03 |
| 472 | 31.93 | 107.23 | 2.16 | 1.55 | 0.65 | 69.27 | 1.51 | 104.84 | 0.187 | No | No | 1.00 |
| 473 | 31.98 | 100.42 | 2.22 | 1.75 | 0.67 | 64.06 | 1.66 | 106.04 | 0.191 | No | No | 1.02 |
| 474 | 32.02 | 98.18 | 2.25 | 1.90 | 0.68 | 62.19 | 1.75 | 108.88 | 0.200 | No | No | 1.07 |
| 475 | 32.09 | 97.00 | 2.27 | 2.03 | 0.69 | 61.07 | 1.83 | 111.87 | 0.210 | No | No | 1.13 |
| 476 | 32.16 | 98.89 | 2.27 | 2.07 | 0.69 | 62.18 | 1.83 | 113.86 | 0.217 | No | No | 1.16 |
| 477 | 32.22 | 100.29 | 2.27 | 2.07 | 0.69 | 63.04 | 1.82 | 114.52 | 0.220 | No | No | 1.17 |
| 478 | 32.27 | 103.49 | 2.25 | 2.02 | 0.68 | 65.22 | 1.76 | 114.53 | 0.220 | No | No | 1.17 |
| 479 | 32.34 | 106.02 | 2.24 | 1.97 | 0.68 | 66.91 | 1.71 | 114.38 | 0.219 | No | No | 1.17 |
| 480 | 32.42 | 108.89 | 2.22 | 1.91 | 0.67 | 68.85 | 1.66 | 114.11 | 0.218 | No | No | 1.16 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 481 | 32.46 | 113.04 | 2.19 | 1.80 | 0.66 | 71.82 | 1.58 | 113.62 | 0.216 | No | No | 1.15 |
| 482 | 32.54 | 117.73 | 2.15 | 1.68 | 0.65 | 75.15 | 1.51 | 113.25 | 0.215 | No | No | 1.14 |
| 483 | 32.60 | 121.74 | 2.11 | 1.51 | 0.64 | 78.23 | 1.43 | 112.00 | 0.211 | No | No | 1.12 |
| 484 | 32.67 | 124.81 | 2.07 | 1.39 | 0.63 | 80.60 | 1.38 | 111.53 | 0.209 | No | No | 1.11 |
| 485 | 32.75 | 127.51 | 2.05 | 1.31 | 0.62 | 82.59 | 1.35 | 111.85 | 0.210 | No | No | 1.12 |
| 486 | 32.81 | 130.38 | 2.05 | 1.32 | 0.62 | 84.43 | 1.35 | 113.95 | 0.218 | No | No | 1.15 |
| 487 | 32.89 | 133.38 | 2.04 | 1.34 | 0.62 | 86.29 | 1.35 | 116.21 | 0.226 | No | No | 1.20 |
| 488 | 32.94 | 129.47 | 2.07 | 1.43 | 0.63 | 83.21 | 1.38 | 114.84 | 0.221 | No | No | 1.17 |
| 489 | 32.95 | 131.02 | 2.07 | 1.44 | 0.63 | 84.23 | 1.38 | 116.07 | 0.225 | No | No | 1.19 |
| 490 | 33.00 | 132.88 | 2.07 | 1.46 | 0.63 | 85.36 | 1.38 | 117.56 | 0.231 | No | No | 1.22 |
| 491 | 33.06 | 141.08 | 2.04 | 1.42 | 0.62 | 91.06 | 1.34 | 122.40 | 0.251 | No | No | 1.32 |
| 492 | 33.11 | 142.26 | 2.04 | 1.45 | 0.62 | 91.66 | 1.35 | 123.66 | 0.256 | No | No | 1.35 |
| 493 | 33.20 | 141.21 | 2.06 | 1.50 | 0.63 | 90.60 | 1.36 | 123.53 | 0.255 | No | No | 1.35 |
| 494 | 33.25 | 139.02 | 2.08 | 1.56 | 0.63 | 88.78 | 1.39 | 123.06 | 0.253 | No | No | 1.34 |
| 495 | 33.34 | 137.03 | 2.09 | 1.61 | 0.64 | 87.07 | 1.41 | 122.48 | 0.251 | No | No | 1.32 |
| 496 | 33.38 | 136.69 | 2.10 | 1.63 | 0.64 | 86.68 | 1.42 | 122.68 | 0.252 | No | No | 1.33 |
| 497 | 33.48 | 138.41 | 2.10 | 1.64 | 0.64 | 87.63 | 1.41 | 123.78 | 0.256 | No | No | 1.35 |
| 498 | 33.58 | 141.92 | 2.09 | 1.64 | 0.63 | 89.83 | 1.40 | 125.79 | 0.265 | No | No | 1.39 |
| 499 | 33.63 | 146.74 | 2.07 | 1.63 | 0.63 | 93.05 | 1.38 | 128.81 | 0.279 | No | No | 1.46 |
| 500 | 33.73 | 152.41 | 2.06 | 1.61 | 0.63 | 96.75 | 1.37 | 132.15 | 0.295 | No | No | 1.55 |
| 501 | 33.82 | 158.96 | 2.04 | 1.60 | 0.62 | 101.09 | 1.35 | 136.16 | 0.315 | No | No | 1.65 |
| 502 | 33.87 | 165.74 | 2.03 | 1.58 | 0.62 | 105.66 | 1.33 | 140.58 | 0.338 | No | No | 1.77 |
| 503 | 33.96 | 172.72 | 2.01 | 1.57 | 0.61 | 110.29 | 1.32 | 145.13 | 0.364 | No | No | 1.91 |
| 504 | 34.02 | 180.58 | 2.00 | 1.57 | 0.61 | 115.54 | 1.30 | 150.66 | 0.398 | No | No | 2.00 |
| 505 | 34.11 | 190.03 | 1.98 | 1.57 | 0.60 | 121.77 | 1.29 | 157.32 | 0.442 | No | No | 2.00 |
| 506 | 34.18 | 200.49 | 1.97 | 1.59 | 0.60 | 128.68 | 1.28 | 164.99 | 0.498 | No | No | 2.00 |
| 507 | 34.26 | 210.44 | 1.96 | 1.63 | 0.60 | 135.11 | 1.28 | 172.52 | 0.558 | No | No | 2.00 |
| 508 | 34.35 | 219.45 | 1.96 | 1.68 | 0.60 | 140.77 | 1.28 | 179.50 | 0.618 | No | No | 2.00 |
| 509 | 34.44 | 227.51 | 1.95 | 1.71 | 0.59 | 145.83 | 1.27 | 185.53 | 0.674 | No | No | 2.00 |
| 510 | 34.49 | 233.96 | 1.95 | 1.72 | 0.59 | 150.02 | 1.27 | 190.23 | 0.720 | No | No | 2.00 |
| 511 | 34.59 | 237.94 | 1.94 | 1.72 | 0.59 | 152.42 | 1.27 | 192.83 | 0.747 | No | No | 2.00 |
| 512 | 34.69 | 240.00 | 1.94 | 1.73 | 0.59 | 153.47 | 1.26 | 194.12 | 0.760 | No | No | 2.00 |
| 513 | 34.76 | 240.94 | 1.94 | 1.72 | 0.59 | 153.92 | 1.26 | 194.53 | 0.765 | No | No | 2.00 |
| 514 | 34.83 | 240.60 | 1.94 | 1.72 | 0.59 | 153.43 | 1.26 | 194.02 | 0.759 | No | No | 2.00 |
| 515 | 34.93 | 237.97 | 1.94 | 1.71 | 0.59 | 151.43 | 1.26 | 191.54 | 0.733 | No | No | 2.00 |
| 516 | 35.02 | 233.82 | 1.95 | 1.70 | 0.59 | 148.39 | 1.27 | 188.08 | 0.699 | No | No | 2.00 |
| 517 | 35.12 | 229.78 | 1.94 | 1.65 | 0.59 | 145.60 | 1.27 | 184.23 | 0.662 | No | No | 2.00 |
| 518 | 35.22 | 226.47 | 1.94 | 1.62 | 0.59 | 143.26 | 1.26 | 181.13 | 0.633 | No | No | 2.00 |
| 519 | 35.30 | 222.22 | 1.94 | 1.59 | 0.59 | 140.29 | 1.26 | 177.46 | 0.600 | No | No | 2.00 |
| 520 | 35.38 | 208.55 | 1.98 | 1.66 | 0.60 | 130.48 | 1.29 | 168.21 | 0.523 | No | No | 2.00 |
| 521 | 35.43 | 198.10 | 2.00 | 1.71 | 0.61 | 123.09 | 1.31 | 161.35 | 0.471 | No | No | 2.00 |
| 522 | 35.46 | 189.40 | 2.03 | 1.76 | 0.62 | 116.99 | 1.33 | 155.80 | 0.432 | No | No | 2.00 |
| 523 | 35.51 | 187.20 | 2.03 | 1.73 | 0.62 | 115.53 | 1.33 | 153.78 | 4.000 | Yes | No | 2.00 |
| 524 | 35.56 | 176.78 | 2.05 | 1.75 | 0.62 | 108.45 | 1.35 | 146.76 | 4.000 | Yes | No | 2.00 |
| 525 | 35.66 | 163.52 | 2.08 | 1.79 | 0.63 | 99.31 | 1.39 | 138.53 | 4.000 | Yes | No | 2.00 |
| 526 | 35.70 | 148.20 | 2.13 | 1.85 | 0.65 | 89.01 | 1.46 | 130.03 | 4.000 | Yes | No | 2.00 |
| 527 | 35.80 | 131.87 | 2.19 | 1.98 | 0.66 | 77.90 | 1.59 | 123.66 | 4.000 | Yes | No | 2.00 |
| 528 | 35.89 | 111.32 | 2.28 | 2.22 | 0.69 | 64.17 | 1.87 | 119.95 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 529 | 35.96 | 89.09 | 2.41 | 2.59 | 0.73 | 49.72 | 2.43 | 120.81 | 4.000 | Yes | No | 2.00 |
| 530 | 36.04 | 68.24 | 2.54 | 2.90 | 0.77 | 36.73 | 3.28 | 120.37 | 4.000 | Yes | No | 2.00 |
| 531 | 36.14 | 52.15 | 2.66 | 3.11 | 0.81 | 27.04 | 4.33 | 117.01 | 4.000 | Yes | Yes | 2.00 |
| 532 | 36.19 | 43.48 | 2.73 | 3.10 | 0.83 | 22.01 | 5.03 | 110.69 | 4.000 | Yes | Yes | 2.00 |
| 533 | 36.28 | 40.51 | 2.77 | 3.18 | 0.84 | 20.23 | 5.44 | 110.05 | 4.000 | Yes | Yes | 2.00 |
| 534 | 36.33 | 40.51 | 2.76 | 3.10 | 0.84 | 20.24 | 5.35 | 108.32 | 3.600 | No | Yes | 2.00 |
| 535 | 36.42 | 42.30 | 2.74 | 3.02 | 0.83 | 21.24 | 5.09 | 108.08 | 3.600 | No | Yes | 2.00 |
| 536 | 36.48 | 45.97 | 2.69 | 2.87 | 0.81 | 23.38 | 4.59 | 107.27 | 3.600 | No | Yes | 2.00 |
| 537 | 36.52 | 51.03 | 2.66 | 2.98 | 0.81 | 26.20 | 4.31 | 112.95 | 3.600 | No | Yes | 2.00 |
| 538 | 36.62 | 54.10 | 2.66 | 3.19 | 0.81 | 27.78 | 4.31 | 119.67 | 3.600 | No | Yes | 2.00 |
| 539 | 36.68 | 54.07 | 2.69 | 3.50 | 0.81 | 27.55 | 4.59 | 126.59 | 3.600 | No | Yes | 2.00 |
| 540 | 36.77 | 52.82 | 2.71 | 3.61 | 0.82 | 26.73 | 4.79 | 128.11 | 3.600 | No | Yes | 2.00 |
| 541 | 36.86 | 54.64 | 2.69 | 3.49 | 0.81 | 27.76 | 4.56 | 126.60 | 4.000 | Yes | Yes | 2.00 |
| 542 | 36.90 | 67.67 | 2.53 | 2.74 | 0.77 | 35.75 | 3.22 | 115.19 | 4.000 | Yes | No | 2.00 |
| 543 | 37.00 | 98.14 | 2.29 | 1.88 | 0.69 | 55.13 | 1.87 | 103.13 | 4.000 | Yes | No | 2.00 |
| 544 | 37.10 | 140.34 | 2.04 | 1.30 | 0.62 | 83.45 | 1.35 | 112.56 | 4.000 | Yes | No | 2.00 |
| 545 | 37.20 | 182.54 | 1.86 | 0.97 | 0.57 | 113.15 | 1.21 | 136.84 | 4.000 | Yes | No | 2.00 |
| 546 | 37.29 | 213.04 | 1.75 | 0.82 | 0.53 | 135.23 | 1.09 | 147.30 | 4.000 | Yes | No | 2.00 |
| 547 | 37.39 | 232.34 | 1.70 | 0.76 | 0.52 | 149.01 | 1.00 | 149.01 | 4.000 | Yes | No | 2.00 |
| 548 | 37.49 | 241.91 | 1.70 | 0.80 | 0.52 | 155.00 | 1.00 | 155.00 | 0.426 | No | No | 2.00 |
| 549 | 37.53 | 245.57 | 1.72 | 0.85 | 0.52 | 156.74 | 1.02 | 160.20 | 0.462 | No | No | 2.00 |
| 550 | 37.58 | 246.07 | 1.73 | 0.90 | 0.53 | 156.33 | 1.06 | 165.44 | 0.501 | No | No | 2.00 |
| 551 | 37.62 | 247.84 | 1.75 | 0.95 | 0.53 | 156.88 | 1.08 | 169.66 | 0.534 | No | No | 2.00 |
| 552 | 37.69 | 250.56 | 1.77 | 1.01 | 0.54 | 157.82 | 1.11 | 175.10 | 0.579 | No | No | 2.00 |
| 553 | 37.77 | 253.53 | 1.78 | 1.07 | 0.54 | 158.95 | 1.13 | 179.78 | 0.620 | No | No | 2.00 |
| 554 | 37.82 | 254.98 | 1.80 | 1.14 | 0.55 | 159.10 | 1.15 | 183.39 | 0.654 | No | No | 2.00 |
| 555 | 37.87 | 254.84 | 1.81 | 1.18 | 0.55 | 158.42 | 1.17 | 184.85 | 0.667 | No | No | 2.00 |
| 556 | 37.91 | 252.72 | 1.83 | 1.23 | 0.56 | 156.44 | 1.18 | 184.82 | 0.667 | No | No | 2.00 |
| 557 | 37.97 | 248.23 | 1.85 | 1.27 | 0.56 | 152.87 | 1.20 | 183.06 | 0.650 | No | No | 2.00 |
| 558 | 38.06 | 241.92 | 1.87 | 1.31 | 0.57 | 148.07 | 1.21 | 179.59 | 0.619 | No | No | 2.00 |
| 559 | 38.10 | 235.58 | 1.88 | 1.34 | 0.57 | 143.53 | 1.22 | 175.74 | 0.585 | No | No | 2.00 |
| 560 | 38.17 | 230.89 | 1.89 | 1.34 | 0.57 | 140.30 | 1.23 | 172.34 | 0.556 | No | No | 2.00 |
| 561 | 38.25 | 228.09 | 1.88 | 1.30 | 0.57 | 138.57 | 1.22 | 169.66 | 0.534 | No | No | 2.00 |
| 562 | 38.35 | 225.79 | 1.87 | 1.25 | 0.57 | 137.24 | 1.22 | 167.11 | 0.514 | No | No | 2.00 |
| 563 | 38.40 | 223.43 | 1.87 | 1.21 | 0.57 | 135.86 | 1.21 | 164.83 | 0.496 | No | No | 2.00 |
| 564 | 38.46 | 221.65 | 1.86 | 1.19 | 0.57 | 134.68 | 1.21 | 163.21 | 0.484 | No | No | 2.00 |
| 565 | 38.54 | 220.87 | 1.86 | 1.18 | 0.57 | 134.09 | 1.21 | 162.26 | 0.477 | No | No | 2.00 |
| 566 | 38.60 | 220.87 | 1.86 | 1.15 | 0.56 | 134.14 | 1.21 | 161.69 | 0.473 | No | No | 2.00 |
| 567 | 38.69 | 222.22 | 1.85 | 1.12 | 0.56 | 135.09 | 1.20 | 161.77 | 0.474 | No | No | 2.00 |
| 568 | 38.74 | 224.92 | 1.83 | 1.09 | 0.56 | 137.05 | 1.19 | 162.53 | 0.479 | No | No | 2.00 |
| 569 | 38.83 | 227.85 | 1.82 | 1.08 | 0.56 | 138.91 | 1.18 | 163.73 | 0.488 | No | No | 2.00 |
| 570 | 38.88 | 229.20 | 1.81 | 1.05 | 0.55 | 139.97 | 1.17 | 163.54 | 0.487 | No | No | 2.00 |
| 571 | 38.97 | 228.76 | 1.81 | 1.03 | 0.55 | 139.65 | 1.16 | 162.47 | 0.479 | No | No | 2.00 |
| 572 | 39.02 | 227.25 | 1.80 | 1.00 | 0.55 | 138.83 | 1.16 | 160.45 | 0.464 | No | No | 2.00 |
| 573 | 39.11 | 224.44 | 1.81 | 0.99 | 0.55 | 136.82 | 1.16 | 158.54 | 0.451 | No | No | 2.00 |
| 574 | 39.16 | 218.51 | 1.81 | 0.99 | 0.55 | 132.80 | 1.17 | 154.99 | 0.426 | No | No | 2.00 |
| 575 | 39.23 | 205.48 | 1.85 | 1.02 | 0.56 | 123.73 | 1.20 | 148.10 | 0.382 | No | No | 1.92 |
| 576 | 39.24 | 200.81 | 1.85 | 1.01 | 0.56 | 120.69 | 1.20 | 145.08 | 0.364 | No | No | 1.83 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 577 | 39.28 | 198.62 | 1.85 | 1.00 | 0.56 | 119.29 | 1.20 | 143.39 | 0.354 | No | No | 1.78 |
| 578 | 39.32 | 201.93 | 1.83 | 0.94 | 0.56 | 121.86 | 1.18 | 144.08 | 0.358 | No | No | 1.80 |
| 579 | 39.39 | 194.55 | 1.84 | 0.95 | 0.56 | 116.84 | 1.20 | 139.67 | 4.000 | Yes | No | 2.00 |
| 580 | 39.47 | 183.96 | 1.88 | 0.98 | 0.57 | 109.44 | 1.22 | 133.48 | 4.000 | Yes | No | 2.00 |
| 581 | 39.54 | 171.48 | 1.92 | 1.05 | 0.58 | 100.68 | 1.25 | 125.99 | 4.000 | Yes | No | 2.00 |
| 582 | 39.62 | 158.42 | 1.98 | 1.14 | 0.60 | 91.63 | 1.29 | 117.99 | 4.000 | Yes | No | 2.00 |
| 583 | 39.71 | 145.73 | 2.03 | 1.23 | 0.62 | 82.95 | 1.33 | 110.70 | 4.000 | Yes | No | 2.00 |
| 584 | 39.76 | 134.50 | 2.08 | 1.32 | 0.63 | 75.46 | 1.39 | 105.08 | 4.000 | Yes | No | 2.00 |
| 585 | 39.85 | 125.32 | 2.13 | 1.40 | 0.65 | 69.36 | 1.46 | 101.34 | 4.000 | Yes | No | 2.00 |
| 586 | 39.90 | 117.87 | 2.17 | 1.48 | 0.66 | 64.48 | 1.53 | 98.95 | 4.000 | Yes | No | 2.00 |
| 587 | 40.00 | 111.05 | 2.20 | 1.56 | 0.67 | 60.00 | 1.63 | 97.53 | 4.000 | Yes | No | 2.00 |
| 588 | 40.06 | 104.71 | 2.24 | 1.65 | 0.68 | 55.91 | 1.73 | 96.96 | 4.000 | Yes | No | 2.00 |
| 589 | 40.15 | 98.67 | 2.28 | 1.75 | 0.69 | 52.00 | 1.87 | 97.18 | 4.000 | Yes | No | 2.00 |
| 590 | 40.21 | 92.83 | 2.33 | 1.90 | 0.71 | 48.24 | 2.05 | 98.86 | 4.000 | Yes | No | 2.00 |
| 591 | 40.29 | 86.59 | 2.39 | 2.09 | 0.72 | 44.24 | 2.31 | 102.19 | 4.000 | Yes | No | 2.00 |
| 592 | 40.35 | 79.68 | 2.46 | 2.39 | 0.75 | 39.85 | 2.72 | 108.27 | 4.000 | Yes | No | 2.00 |
| 593 | 40.43 | 72.22 | 2.53 | 2.63 | 0.77 | 35.37 | 3.16 | 111.81 | 4.000 | Yes | No | 2.00 |
| 594 | 40.52 | 63.85 | 2.60 | 2.88 | 0.79 | 30.51 | 3.76 | 114.58 | 4.000 | Yes | Yes | 2.00 |
| 595 | 40.58 | 55.21 | 2.68 | 3.09 | 0.81 | 25.70 | 4.47 | 115.00 | 4.000 | Yes | Yes | 2.00 |
| 596 | 40.67 | 46.88 | 2.77 | 3.45 | 0.84 | 21.09 | 5.54 | 116.83 | 4.000 | Yes | Yes | 2.00 |
| 597 | 40.77 | 41.63 | 2.85 | 3.76 | 0.86 | 18.24 | 6.45 | 117.65 | 4.000 | Yes | Yes | 2.00 |
| 598 | 40.84 | 39.14 | 2.89 | 3.94 | 0.87 | 16.87 | 6.99 | 117.99 | 4.000 | Yes | Yes | 2.00 |
| 599 | 40.89 | 42.28 | 2.83 | 3.65 | 0.86 | 18.55 | 6.27 | 116.25 | 4.000 | Yes | Yes | 2.00 |
| 600 | 40.94 | 49.75 | 2.72 | 3.09 | 0.82 | 22.62 | 4.92 | 111.31 | 4.000 | Yes | Yes | 2.00 |
| 601 | 41.03 | 61.46 | 2.57 | 2.48 | 0.78 | 29.20 | 3.53 | 103.18 | 4.000 | Yes | No | 2.00 |
| 602 | 41.08 | 73.03 | 2.45 | 2.07 | 0.74 | 35.94 | 2.68 | 96.47 | 4.000 | Yes | No | 2.00 |
| 603 | 41.14 | 82.03 | 2.37 | 1.83 | 0.72 | 41.30 | 2.24 | 92.51 | 4.000 | Yes | No | 2.00 |
| 604 | 41.22 | 87.70 | 2.33 | 1.71 | 0.71 | 44.68 | 2.04 | 90.97 | 4.000 | Yes | No | 2.00 |
| 605 | 41.28 | 90.43 | 2.31 | 1.68 | 0.70 | 46.24 | 1.97 | 91.29 | 0.151 | No | No | 0.75 |
| 606 | 41.33 | 91.99 | 2.32 | 1.74 | 0.70 | 46.96 | 1.99 | 93.52 | 0.156 | No | No | 0.78 |
| 607 | 41.42 | 93.64 | 2.33 | 1.85 | 0.71 | 47.61 | 2.04 | 97.02 | 0.165 | No | No | 0.82 |
| 608 | 41.47 | 97.01 | 2.33 | 1.94 | 0.71 | 49.31 | 2.04 | 100.81 | 0.175 | No | No | 0.87 |
| 609 | 41.52 | 104.03 | 2.31 | 1.97 | 0.70 | 53.17 | 1.96 | 104.48 | 0.186 | No | No | 0.93 |
| 610 | 41.62 | 115.47 | 2.27 | 1.93 | 0.69 | 59.72 | 1.81 | 107.92 | 0.197 | No | No | 0.98 |
| 611 | 41.67 | 130.01 | 2.22 | 1.88 | 0.67 | 68.21 | 1.66 | 112.91 | 0.214 | No | No | 1.07 |
| 612 | 41.76 | 144.45 | 2.17 | 1.82 | 0.66 | 76.74 | 1.54 | 118.23 | 0.234 | No | No | 1.16 |
| 613 | 41.82 | 156.39 | 2.14 | 1.79 | 0.65 | 83.80 | 1.48 | 123.75 | 0.256 | No | No | 1.28 |
| 614 | 41.90 | 165.43 | 2.11 | 1.76 | 0.64 | 89.14 | 1.44 | 128.02 | 0.275 | No | No | 1.37 |
| 615 | 41.99 | 171.57 | 2.10 | 1.74 | 0.64 | 92.73 | 1.41 | 131.05 | 0.289 | No | No | 1.44 |
| 616 | 42.05 | 174.81 | 2.09 | 1.73 | 0.63 | 94.61 | 1.40 | 132.58 | 0.297 | No | No | 1.48 |
| 617 | 42.15 | 175.22 | 2.09 | 1.74 | 0.63 | 94.64 | 1.40 | 132.77 | 0.298 | No | No | 1.48 |
| 618 | 42.23 | 173.33 | 2.10 | 1.77 | 0.64 | 93.24 | 1.42 | 132.06 | 0.294 | No | No | 1.46 |
| 619 | 42.30 | 169.55 | 2.11 | 1.80 | 0.64 | 90.73 | 1.44 | 130.51 | 0.287 | No | No | 1.43 |
| 620 | 42.38 | 163.64 | 2.13 | 1.84 | 0.65 | 86.97 | 1.47 | 127.88 | 0.274 | No | No | 1.36 |
| 621 | 42.48 | 153.79 | 2.16 | 1.88 | 0.66 | 80.87 | 1.53 | 123.60 | 0.256 | No | No | 1.27 |
| 622 | 42.57 | 141.98 | 2.20 | 1.94 | 0.67 | 73.69 | 1.62 | 119.15 | 0.237 | No | No | 1.18 |
| 623 | 42.64 | 129.97 | 2.24 | 2.01 | 0.68 | 66.53 | 1.73 | 115.28 | 0.222 | No | No | 1.11 |
| 624 | 42.72 | 121.20 | 2.27 | 2.02 | 0.69 | 61.42 | 1.82 | 111.72 | 0.210 | No | No | 1.04 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 625 | 42.82 | 114.72 | 2.29 | 1.99 | 0.69 | 57.72 | 1.88 | 108.24 | 0.198 | No | No | 0.98 |
| 626 | 42.90 | 110.03 | 2.30 | 1.96 | 0.70 | 55.08 | 1.91 | 105.42 | 0.189 | No | No | 0.94 |
| 627 | 42.97 | 106.05 | 2.31 | 1.98 | 0.70 | 52.74 | 1.98 | 104.32 | 0.186 | No | No | 0.92 |
| 628 | 43.06 | 102.31 | 2.34 | 2.04 | 0.71 | 50.43 | 2.08 | 104.69 | 0.187 | No | No | 0.93 |
| 629 | 43.15 | 98.76 | 2.35 | 2.01 | 0.71 | 48.44 | 2.11 | 102.43 | 0.180 | No | No | 0.89 |
| 630 | 43.20 | 97.75 | 2.34 | 1.92 | 0.71 | 48.00 | 2.07 | 99.54 | 0.172 | No | No | 0.85 |
| 631 | 43.30 | 104.19 | 2.28 | 1.70 | 0.69 | 51.99 | 1.84 | 95.67 | 0.161 | No | No | 0.80 |
| 632 | 43.40 | 119.88 | 2.19 | 1.51 | 0.66 | 61.38 | 1.58 | 97.12 | 0.165 | No | No | 0.82 |
| 633 | 43.48 | 132.43 | 2.13 | 1.40 | 0.65 | 68.91 | 1.47 | 100.97 | 0.176 | No | No | 0.87 |
| 634 | 43.51 | 139.11 | 2.10 | 1.37 | 0.64 | 72.90 | 1.43 | 103.89 | 0.184 | No | No | 0.92 |
| 635 | 43.52 | 146.23 | 2.08 | 1.34 | 0.63 | 77.22 | 1.39 | 107.23 | 0.195 | No | No | 0.97 |
| 636 | 43.56 | 160.13 | 2.03 | 1.26 | 0.62 | 85.83 | 1.33 | 114.20 | 0.219 | No | No | 1.09 |
| 637 | 43.61 | 178.86 | 1.96 | 1.17 | 0.60 | 97.60 | 1.28 | 124.81 | 0.261 | No | No | 1.30 |
| 638 | 43.67 | 193.23 | 1.92 | 1.11 | 0.58 | 106.74 | 1.25 | 133.29 | 0.300 | No | No | 1.49 |
| 639 | 43.72 | 206.01 | 1.88 | 1.05 | 0.57 | 115.04 | 1.22 | 140.56 | 0.338 | No | No | 1.68 |
| 640 | 43.80 | 216.51 | 1.85 | 1.00 | 0.56 | 121.88 | 1.20 | 145.95 | 0.369 | No | No | 1.83 |
| 641 | 43.85 | 224.74 | 1.82 | 0.97 | 0.56 | 127.26 | 1.18 | 149.84 | 0.393 | No | No | 1.95 |
| 642 | 43.90 | 231.25 | 1.81 | 0.95 | 0.55 | 131.51 | 1.16 | 152.56 | 0.410 | No | No | 2.00 |
| 643 | 43.94 | 236.38 | 1.79 | 0.94 | 0.55 | 134.87 | 1.14 | 154.37 | 0.422 | No | No | 2.00 |
| 644 | 43.99 | 239.82 | 1.78 | 0.92 | 0.54 | 137.13 | 1.13 | 155.28 | 0.428 | No | No | 2.00 |
| 645 | 44.08 | 241.54 | 1.78 | 0.92 | 0.54 | 138.11 | 1.13 | 155.65 | 0.431 | No | No | 2.00 |
| 646 | 44.14 | 241.51 | 1.79 | 0.94 | 0.54 | 137.71 | 1.14 | 156.49 | 0.436 | No | No | 2.00 |
| 647 | 44.22 | 240.40 | 1.80 | 0.97 | 0.55 | 136.41 | 1.15 | 157.19 | 0.441 | No | No | 2.00 |
| 648 | 44.28 | 238.31 | 1.82 | 1.01 | 0.55 | 134.50 | 1.17 | 157.37 | 0.442 | No | No | 2.00 |
| 649 | 44.33 | 235.67 | 1.83 | 1.05 | 0.56 | 132.35 | 1.18 | 156.78 | 0.438 | No | No | 2.00 |
| 650 | 44.40 | 232.27 | 1.85 | 1.10 | 0.56 | 129.52 | 1.20 | 155.80 | 0.432 | No | No | 2.00 |
| 651 | 44.48 | 231.30 | 1.87 | 1.15 | 0.57 | 128.25 | 1.22 | 155.90 | 0.432 | No | No | 2.00 |
| 652 | 44.52 | 228.57 | 1.90 | 1.24 | 0.58 | 125.64 | 1.24 | 155.24 | 0.428 | No | No | 2.00 |
| 653 | 44.61 | 230.02 | 1.89 | 1.23 | 0.58 | 126.41 | 1.23 | 155.88 | 0.432 | No | No | 2.00 |
| 654 | 44.72 | 231.52 | 1.90 | 1.24 | 0.58 | 127.03 | 1.23 | 156.70 | 0.438 | No | No | 2.00 |
| 655 | 44.77 | 236.14 | 1.88 | 1.21 | 0.57 | 130.05 | 1.22 | 159.04 | 0.454 | No | No | 2.00 |
| 656 | 44.91 | 237.86 | 1.89 | 1.24 | 0.57 | 130.46 | 1.23 | 160.27 | 0.463 | No | No | 2.00 |
| 657 | 44.95 | 231.69 | 1.91 | 1.29 | 0.58 | 126.16 | 1.24 | 156.88 | 0.439 | No | No | 2.00 |
| 658 | 45.02 | 227.41 | 1.92 | 1.32 | 0.59 | 123.19 | 1.25 | 154.33 | 0.422 | No | No | 2.00 |
| 659 | 45.04 | 198.97 | 2.01 | 1.51 | 0.61 | 104.88 | 1.32 | 138.44 | 0.327 | No | No | 1.62 |
| 660 | 45.06 | 203.49 | 2.00 | 1.46 | 0.61 | 107.81 | 1.30 | 140.63 | 0.339 | No | No | 1.68 |
| 661 | 45.11 | 208.45 | 1.98 | 1.41 | 0.60 | 111.04 | 1.29 | 143.03 | 0.352 | No | No | 1.75 |
| 662 | 45.15 | 239.96 | 1.87 | 1.20 | 0.57 | 131.64 | 1.22 | 160.49 | 0.464 | No | No | 2.00 |
| 663 | 45.21 | 246.91 | 1.85 | 1.16 | 0.56 | 136.23 | 1.20 | 163.81 | 0.489 | No | No | 2.00 |
| 664 | 45.25 | 252.44 | 1.84 | 1.13 | 0.56 | 139.80 | 1.19 | 166.43 | 0.509 | No | No | 2.00 |
| 665 | 45.30 | 256.29 | 1.83 | 1.13 | 0.56 | 142.11 | 1.18 | 168.34 | 0.524 | No | No | 2.00 |
| 666 | 45.35 | 258.04 | 1.83 | 1.13 | 0.56 | 143.02 | 1.18 | 169.35 | 0.532 | No | No | 2.00 |
| 667 | 45.41 | 258.42 | 1.83 | 1.14 | 0.56 | 143.02 | 1.19 | 169.64 | 0.534 | No | No | 2.00 |
| 668 | 45.49 | 257.00 | 1.84 | 1.15 | 0.56 | 141.89 | 1.19 | 168.87 | 0.528 | No | No | 2.00 |
| 669 | 45.55 | 254.13 | 1.84 | 1.15 | 0.56 | 139.97 | 1.19 | 167.24 | 0.515 | No | No | 2.00 |
| 670 | 45.63 | 249.51 | 1.85 | 1.16 | 0.56 | 136.90 | 1.20 | 164.52 | 0.494 | No | No | 2.00 |
| 671 | 45.69 | 243.67 | 1.86 | 1.16 | 0.57 | 133.19 | 1.21 | 161.09 | 0.469 | No | No | 2.00 |
| 672 | 45.78 | 236.62 | 1.88 | 1.18 | 0.57 | 128.61 | 1.22 | 156.88 | 0.439 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 673 | 45.84 | 228.05 | 1.89 | 1.18 | 0.58 | 123.25 | 1.23 | 151.68 | 0.405 | No | No | 2.00 |
| 674 | 45.93 | 217.69 | 1.91 | 1.19 | 0.58 | 116.85 | 1.24 | 145.18 | 0.365 | No | No | 1.81 |
| 675 | 46.02 | 205.11 | 1.93 | 1.19 | 0.59 | 109.16 | 1.26 | 137.24 | 4.000 | Yes | No | 2.00 |
| 676 | 46.08 | 190.40 | 1.96 | 1.19 | 0.60 | 100.37 | 1.28 | 128.00 | 4.000 | Yes | No | 2.00 |
| 677 | 46.16 | 174.41 | 1.99 | 1.20 | 0.61 | 90.73 | 1.30 | 118.20 | 4.000 | Yes | No | 2.00 |
| 678 | 46.24 | 157.13 | 2.04 | 1.24 | 0.62 | 80.39 | 1.35 | 108.31 | 4.000 | Yes | No | 2.00 |
| 679 | 46.31 | 138.07 | 2.12 | 1.34 | 0.64 | 68.91 | 1.44 | 99.54 | 4.000 | Yes | No | 2.00 |
| 680 | 46.41 | 117.36 | 2.22 | 1.54 | 0.67 | 56.54 | 1.67 | 94.32 | 4.000 | Yes | No | 2.00 |
| 681 | 46.48 | 95.77 | 2.36 | 1.87 | 0.72 | 44.06 | 2.17 | 95.41 | 4.000 | Yes | No | 2.00 |
| 682 | 46.56 | 75.72 | 2.51 | 2.32 | 0.76 | 32.98 | 3.08 | 101.49 | 4.000 | Yes | No | 2.00 |
| 683 | 46.65 | 58.08 | 2.68 | 2.81 | 0.81 | 23.81 | 4.47 | 106.39 | 4.000 | Yes | Yes | 2.00 |
| 684 | 46.75 | 45.43 | 2.81 | 3.12 | 0.85 | 17.64 | 5.95 | 104.92 | 4.000 | Yes | Yes | 2.00 |
| 685 | 46.84 | 36.62 | 2.95 | 3.29 | 1.00 | 12.08 | 8.01 | 96.75 | 4.000 | Yes | Yes | 2.00 |
| 686 | 46.94 | 30.75 | 3.03 | 3.37 | 1.00 | 9.96 | 9.25 | 92.20 | 3.600 | No | Yes | 2.00 |
| 687 | 47.02 | 25.79 | 3.12 | 3.65 | 1.00 | 8.18 | 10.96 | 89.65 | 3.600 | No | Yes | 2.00 |
| 688 | 47.08 | 21.37 | 3.22 | 4.12 | 1.00 | 6.60 | 13.29 | 87.68 | 3.600 | No | Yes | 2.00 |
| 689 | 47.12 | 18.76 | 3.30 | 4.53 | 1.00 | 5.66 | 15.23 | 86.24 | 3.600 | No | Yes | 2.00 |
| 690 | 47.16 | 17.85 | 3.33 | 4.58 | 1.00 | 5.33 | 15.88 | 84.67 | 3.600 | No | Yes | 2.00 |
| 691 | 47.21 | 17.81 | 3.31 | 4.30 | 1.00 | 5.32 | 15.49 | 82.35 | 3.600 | No | Yes | 2.00 |
| 692 | 47.27 | 17.46 | 3.31 | 4.03 | 1.00 | 5.18 | 15.33 | 79.44 | 3.600 | No | Yes | 2.00 |
| 693 | 47.35 | 16.42 | 3.33 | 3.97 | 1.00 | 4.80 | 15.97 | 76.72 | 3.600 | No | Yes | 2.00 |
| 694 | 47.40 | 15.74 | 3.33 | 3.65 | 1.00 | 4.56 | 15.95 | 72.71 | 3.600 | No | Yes | 2.00 |
| 695 | 47.50 | 15.37 | 3.32 | 3.29 | 1.00 | 4.42 | 15.62 | 68.97 | 3.600 | No | Yes | 2.00 |
| 696 | 47.55 | 15.16 | 3.29 | 2.90 | 1.00 | 4.34 | 15.04 | 65.28 | 3.600 | No | Yes | 2.00 |
| 697 | 47.61 | 15.00 | 3.29 | 2.76 | 1.00 | 4.27 | 14.89 | 63.67 | 3.600 | No | Yes | 2.00 |
| 698 | 47.69 | 14.73 | 3.29 | 2.69 | 1.00 | 4.17 | 15.00 | 62.57 | 3.600 | No | Yes | 2.00 |
| 699 | 47.76 | 14.39 | 3.30 | 2.67 | 1.00 | 4.05 | 15.25 | 61.71 | 3.600 | No | Yes | 2.00 |
| 700 | 47.83 | 14.02 | 3.31 | 2.58 | 1.00 | 3.91 | 15.40 | 60.22 | 3.600 | No | Yes | 2.00 |
| 701 | 47.93 | 13.85 | 3.30 | 2.41 | 1.00 | 3.84 | 15.20 | 58.40 | 3.600 | No | Yes | 2.00 |
| 702 | 48.02 | 13.82 | 3.29 | 2.31 | 1.00 | 3.82 | 15.00 | 57.34 | 3.600 | No | Yes | 2.00 |
| 703 | 48.09 | 13.88 | 3.28 | 2.19 | 1.00 | 3.84 | 14.67 | 56.35 | 3.600 | No | Yes | 2.00 |
| 704 | 48.18 | 13.85 | 3.29 | 2.28 | 1.00 | 3.82 | 14.94 | 57.05 | 3.600 | No | Yes | 2.00 |
| 705 | 48.27 | 13.88 | 3.30 | 2.43 | 1.00 | 3.82 | 15.29 | 58.44 | 3.600 | No | Yes | 2.00 |
| 706 | 48.37 | 13.98 | 3.33 | 2.72 | 1.00 | 3.85 | 15.87 | 61.09 | 3.600 | No | Yes | 2.00 |
| 707 | 48.46 | 14.12 | 3.34 | 2.92 | 1.00 | 3.89 | 16.20 | 62.98 | 3.600 | No | Yes | 2.00 |
| 708 | 48.52 | 14.18 | 3.35 | 3.07 | 1.00 | 3.90 | 16.46 | 64.25 | 3.600 | No | Yes | 2.00 |
| 709 | 48.60 | 14.25 | 3.35 | 3.18 | 1.00 | 3.92 | 16.64 | 65.23 | 3.600 | No | Yes | 2.00 |
| 710 | 48.70 | 14.38 | 3.35 | 3.25 | 1.00 | 3.96 | 16.68 | 65.99 | 3.600 | No | Yes | 2.00 |
| 711 | 48.79 | 14.65 | 3.35 | 3.27 | 1.00 | 4.04 | 16.50 | 66.70 | 3.600 | No | Yes | 2.00 |
| 712 | 48.85 | 15.06 | 3.34 | 3.39 | 1.00 | 4.18 | 16.39 | 68.42 | 3.600 | No | Yes | 2.00 |
| 713 | 48.94 | 15.74 | 3.34 | 3.61 | 1.00 | 4.40 | 16.24 | 71.44 | 3.600 | No | Yes | 2.00 |
| 714 | 49.04 | 16.68 | 3.31 | 3.62 | 1.00 | 4.71 | 15.57 | 73.34 | 3.600 | No | Yes | 2.00 |
| 715 | 49.13 | 18.30 | 3.32 | 4.31 | 1.00 | 5.25 | 15.62 | 82.09 | 3.600 | No | Yes | 2.00 |
| 716 | 49.23 | 21.13 | 3.29 | 4.85 | 1.00 | 6.21 | 14.82 | 92.00 | 3.600 | No | Yes | 2.00 |
| 717 | 49.33 | 24.04 | 3.27 | 5.48 | 1.00 | 7.18 | 14.31 | 102.80 | 3.600 | No | Yes | 2.00 |
| 718 | 49.38 | 24.88 | 3.28 | 6.09 | 1.00 | 7.46 | 14.69 | 109.60 | 3.600 | No | Yes | 2.00 |
| 719 | 49.42 | 25.93 | 3.28 | 6.47 | 1.00 | 7.81 | 14.70 | 114.80 | 3.600 | No | Yes | 2.00 |
| 720 | 49.48 | 26.70 | 3.28 | 6.79 | 1.00 | 8.06 | 14.75 | 118.93 | 3.600 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 721 | 49.53 | 28.79 | 3.25 | 6.60 | 1.00 | 8.76 | 13.86 | 121.43 | 3.600 | No | Yes | 2.00 |
| 722 | 49.58 | 29.43 | 3.24 | 6.72 | 1.00 | 8.97 | 13.78 | 123.62 | 3.600 | No | Yes | 2.00 |
| 723 | 49.63 | 30.10 | 3.24 | 6.80 | 1.00 | 9.19 | 13.66 | 125.52 | 3.600 | No | Yes | 2.00 |
| 724 | 49.72 | 30.91 | 3.23 | 6.72 | 1.00 | 9.44 | 13.37 | 126.23 | 3.600 | No | Yes | 2.00 |
| 725 | 49.77 | 31.42 | 3.22 | 6.60 | 1.00 | 9.60 | 13.13 | 125.98 | 3.600 | No | Yes | 2.00 |
| 726 | 49.83 | 31.42 | 3.22 | 6.55 | 1.00 | 9.59 | 13.08 | 125.40 | 3.600 | No | Yes | 2.00 |
| 727 | 49.92 | 30.71 | 3.23 | 6.62 | 1.00 | 9.33 | 13.37 | 124.67 | 3.600 | No | Yes | 2.00 |
| 728 | 49.97 | 30.39 | 3.23 | 6.56 | 1.00 | 9.21 | 13.41 | 123.55 | 3.600 | No | Yes | 2.00 |
| 729 | 50.04 | 29.48 | 3.25 | 6.66 | 1.00 | 8.89 | 13.80 | 122.65 | 3.600 | No | Yes | 2.00 |
| 730 | 50.11 | 29.82 | 3.24 | 6.56 | 1.00 | 8.99 | 13.61 | 122.33 | 3.600 | No | Yes | 2.00 |
| 731 | 50.20 | 30.21 | 3.22 | 6.30 | 1.00 | 9.10 | 13.25 | 120.55 | 3.600 | No | Yes | 2.00 |
| 732 | 50.27 | 30.78 | 3.19 | 5.73 | 1.00 | 9.28 | 12.51 | 116.01 | 3.600 | No | Yes | 2.00 |
| 733 | 50.34 | 29.50 | 3.18 | 5.11 | 1.00 | 8.83 | 12.20 | 107.79 | 3.600 | No | Yes | 2.00 |
| 734 | 50.45 | 26.76 | 3.19 | 4.68 | 1.00 | 7.90 | 12.55 | 99.22 | 3.600 | No | Yes | 2.00 |
| 735 | 50.54 | 23.73 | 3.23 | 4.48 | 1.00 | 6.88 | 13.43 | 92.39 | 3.600 | No | Yes | 2.00 |
| 736 | 50.59 | 21.13 | 3.28 | 4.47 | 1.00 | 6.01 | 14.59 | 87.71 | 3.600 | No | Yes | 2.00 |
| 737 | 50.68 | 19.24 | 3.32 | 4.43 | 1.00 | 5.37 | 15.59 | 83.78 | 3.600 | No | Yes | 2.00 |
| 738 | 50.79 | 18.13 | 3.33 | 4.26 | 1.00 | 4.99 | 16.06 | 80.17 | 3.600 | No | Yes | 2.00 |
| 739 | 50.88 | 17.81 | 3.33 | 4.10 | 1.00 | 4.88 | 16.03 | 78.18 | 3.600 | No | Yes | 2.00 |
| 740 | 50.98 | 17.64 | 3.34 | 4.11 | 1.00 | 4.81 | 16.19 | 77.89 | 3.600 | No | Yes | 2.00 |
| 741 | 51.07 | 17.81 | 3.32 | 3.85 | 1.00 | 4.86 | 15.67 | 76.09 | 3.600 | No | Yes | 2.00 |
| 742 | 51.17 | 18.43 | 3.26 | 3.21 | 1.00 | 5.05 | 14.19 | 71.67 | 3.600 | No | Yes | 2.00 |
| 743 | 51.24 | 19.51 | 3.20 | 2.74 | 1.00 | 5.40 | 12.74 | 68.77 | 3.600 | No | Yes | 2.00 |
| 744 | 51.33 | 20.19 | 3.19 | 2.81 | 1.00 | 5.61 | 12.56 | 70.43 | 3.600 | No | Yes | 2.00 |
| 745 | 51.46 | 20.09 | 3.23 | 3.28 | 1.00 | 5.56 | 13.45 | 74.75 | 3.600 | No | Yes | 2.00 |
| 746 | 51.46 | 19.80 | 3.27 | 3.71 | 1.00 | 5.46 | 14.31 | 78.20 | 3.600 | No | Yes | 2.00 |
| 747 | 51.51 | 19.77 | 3.28 | 3.88 | 1.00 | 5.45 | 14.62 | 79.60 | 3.600 | No | Yes | 2.00 |
| 748 | 51.56 | 19.87 | 3.29 | 4.15 | 1.00 | 5.47 | 14.98 | 82.02 | 3.600 | No | Yes | 2.00 |
| 749 | 51.65 | 19.95 | 3.31 | 4.41 | 1.00 | 5.49 | 15.35 | 84.26 | 3.600 | No | Yes | 2.00 |
| 750 | 51.71 | 20.09 | 3.32 | 4.71 | 1.00 | 5.53 | 15.72 | 86.89 | 3.600 | No | Yes | 2.00 |
| 751 | 51.79 | 20.49 | 3.32 | 4.86 | 1.00 | 5.65 | 15.73 | 88.80 | 3.600 | No | Yes | 2.00 |
| 752 | 51.85 | 21.23 | 3.32 | 5.11 | 1.00 | 5.88 | 15.68 | 92.19 | 3.600 | No | Yes | 2.00 |
| 753 | 51.94 | 22.11 | 3.32 | 5.42 | 1.00 | 6.15 | 15.66 | 96.33 | 3.600 | No | Yes | 2.00 |
| 754 | 51.99 | 23.22 | 3.32 | 5.95 | 1.00 | 6.51 | 15.77 | 102.62 | 3.600 | No | Yes | 2.00 |
| 755 | 52.09 | 24.17 | 3.33 | 6.60 | 1.00 | 6.80 | 16.12 | 109.52 | 3.600 | No | Yes | 2.00 |
| 756 | 52.19 | 27.74 | 3.28 | 6.62 | 1.00 | 7.93 | 14.73 | 116.81 | 3.600 | No | Yes | 2.00 |
| 757 | 52.28 | 33.34 | 3.20 | 6.19 | 1.00 | 9.72 | 12.62 | 122.63 | 3.600 | No | Yes | 2.00 |
| 758 | 52.35 | 36.42 | 3.17 | 6.29 | 1.00 | 10.69 | 12.02 | 128.41 | 3.600 | No | Yes | 2.00 |
| 759 | 52.43 | 37.06 | 3.18 | 6.64 | 1.00 | 10.87 | 12.22 | 132.82 | 3.600 | No | Yes | 2.00 |
| 760 | 52.52 | 35.17 | 3.22 | 7.33 | 1.00 | 10.25 | 13.30 | 136.28 | 3.600 | No | Yes | 2.00 |
| 761 | 52.62 | 35.61 | 3.22 | 7.23 | 1.00 | 10.37 | 13.11 | 135.93 | 3.600 | No | Yes | 2.00 |
| 762 | 52.72 | 35.98 | 3.20 | 6.96 | 1.00 | 10.46 | 12.80 | 133.92 | 3.600 | No | Yes | 2.00 |
| 763 | 52.81 | 34.26 | 3.24 | 7.47 | 1.00 | 9.89 | 13.70 | 135.53 | 3.600 | No | Yes | 2.00 |
| 764 | 52.91 | 31.32 | 3.34 | 9.52 | 1.00 | 8.94 | 16.37 | 146.31 | 3.600 | No | Yes | 2.00 |
| 765 | 53.00 | 37.23 | 3.27 | 9.04 | 1.00 | 10.79 | 14.34 | 154.70 | 3.600 | No | Yes | 2.00 |
| 766 | 53.10 | 62.36 | 2.95 | 5.53 | 1.00 | 18.71 | 7.92 | 148.13 | 4.000 | Yes | Yes | 2.00 |
| 767 | 53.20 | 108.21 | 2.62 | 3.37 | 1.00 | 33.14 | 3.92 | 129.79 | 4.000 | Yes | Yes | 2.00 |
| 768 | 53.29 | 163.78 | 2.38 | 2.36 | 1.00 | 50.57 | 2.27 | 114.61 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 769 | 53.38 | 213.88 | 2.24 | 1.98 | 1.00 | 66.21 | 1.72 | 114.09 | 4.000 | Yes | No | 2.00 |
| 770 | 53.46 | 260.07 | 2.14 | 1.75 | 1.00 | 80.59 | 1.49 | 119.81 | 4.000 | Yes | No | 2.00 |
| 771 | 53.53 | 292.05 | 2.12 | 1.83 | 1.00 | 90.48 | 1.45 | 130.93 | 4.000 | Yes | No | 2.00 |
| 772 | 53.63 | 323.19 | 2.09 | 1.82 | 1.00 | 100.02 | 1.40 | 139.93 | 4.000 | Yes | No | 2.00 |
| 773 | 53.73 | 361.79 | 2.01 | 1.58 | 1.00 | 111.85 | 1.31 | 146.92 | 4.000 | Yes | No | 2.00 |
| 774 | 53.82 | 388.35 | 1.92 | 1.28 | 1.00 | 119.89 | 1.25 | 150.03 | 4.000 | Yes | No | 2.00 |
| 775 | 53.92 | 387.71 | 1.89 | 1.12 | 1.00 | 119.45 | 1.23 | 146.54 | 4.000 | Yes | No | 2.00 |
| 776 | 53.94 | 360.18 | 1.92 | 1.15 | 1.00 | 110.85 | 1.25 | 138.23 | 0.326 | No | No | 1.66 |
| 777 | 53.96 | 336.26 | 1.95 | 1.19 | 1.00 | 103.38 | 1.27 | 131.20 | 0.290 | No | No | 1.48 |
| 778 | 53.97 | 349.08 | 1.92 | 1.12 | 1.00 | 107.34 | 1.25 | 134.16 | 0.305 | No | No | 1.55 |
| 779 | 54.05 | 377.59 | 1.87 | 1.03 | 1.00 | 116.04 | 1.22 | 141.00 | 0.341 | No | No | 1.73 |
| 780 | 54.08 | 426.28 | 1.79 | 0.91 | 1.00 | 131.09 | 1.15 | 150.15 | 0.395 | No | No | 2.00 |
| 781 | 54.13 | 473.21 | 1.74 | 0.84 | 1.00 | 145.55 | 1.06 | 154.41 | 0.422 | No | No | 2.00 |
| 782 | 54.19 | 518.79 | 1.70 | 0.83 | 1.00 | 159.56 | 1.00 | 159.56 | 0.458 | No | No | 2.00 |
| 783 | 54.25 | 524.22 | 1.71 | 0.86 | 1.00 | 161.12 | 1.01 | 162.94 | 0.482 | No | No | 2.00 |
| 784 | 54.28 | 510.87 | 1.74 | 0.91 | 1.00 | 156.95 | 1.06 | 166.66 | 0.510 | No | No | 2.00 |
| 785 | 54.29 | 486.82 | 1.76 | 0.94 | 1.00 | 149.48 | 1.10 | 164.40 | 0.493 | No | No | 2.00 |
| 786 | 54.34 | 486.89 | 1.76 | 0.94 | 1.00 | 149.42 | 1.10 | 164.35 | 0.493 | No | No | 2.00 |
| 787 | 54.35 | 492.20 | 1.75 | 0.93 | 1.00 | 151.05 | 1.09 | 164.72 | 0.496 | No | No | 2.00 |
| 788 | 54.40 | 504.89 | 1.74 | 0.91 | 1.00 | 154.89 | 1.07 | 165.62 | 0.503 | No | No | 2.00 |
| 789 | 54.44 | 522.30 | 1.72 | 0.90 | 1.00 | 160.18 | 1.04 | 166.45 | 0.509 | No | No | 2.00 |
| 790 | 54.49 | 535.62 | 1.71 | 0.88 | 1.00 | 164.19 | 1.01 | 165.88 | 0.505 | No | No | 2.00 |
| 791 | 54.53 | 546.25 | 1.70 | 0.87 | 1.00 | 167.39 | 1.00 | 167.39 | 0.516 | No | No | 2.00 |
| 792 | 54.57 | 558.27 | 1.69 | 0.87 | 1.00 | 171.02 | 1.00 | 171.02 | 0.545 | No | No | 2.00 |
| 793 | 54.58 | 567.78 | 1.70 | 0.89 | 1.00 | 173.92 | 1.00 | 173.92 | 0.569 | No | No | 2.00 |
| 794 | 54.63 | 560.90 | 1.71 | 0.92 | 1.00 | 171.71 | 1.01 | 173.90 | 0.569 | No | No | 2.00 |
| 795 | 54.68 | 536.31 | 1.75 | 0.99 | 1.00 | 164.04 | 1.08 | 176.93 | 0.595 | No | No | 2.00 |
| 796 | 54.73 | 510.50 | 1.78 | 1.03 | 1.00 | 156.00 | 1.12 | 175.12 | 0.579 | No | No | 2.00 |
| 797 | 54.78 | 499.67 | 1.79 | 1.04 | 1.00 | 152.59 | 1.14 | 173.29 | 0.564 | No | No | 2.00 |
| 798 | 54.83 | 493.63 | 1.80 | 1.06 | 1.00 | 150.64 | 1.15 | 172.82 | 0.560 | No | No | 2.00 |
| 799 | 54.88 | 497.14 | 1.80 | 1.09 | 1.00 | 151.64 | 1.15 | 175.08 | 0.579 | No | No | 2.00 |
| 800 | 54.92 | 500.68 | 1.81 | 1.15 | 1.00 | 152.65 | 1.17 | 178.37 | 0.608 | No | No | 2.00 |
| 801 | 54.97 | 510.81 | 1.81 | 1.14 | 1.00 | 155.66 | 1.16 | 180.73 | 0.629 | No | No | 2.00 |
| 802 | 55.02 | 513.44 | 1.81 | 1.15 | 1.00 | 156.38 | 1.16 | 181.62 | 0.637 | No | No | 2.00 |
| 803 | 55.12 | 487.90 | 1.85 | 1.25 | 1.00 | 148.39 | 1.20 | 178.01 | 0.605 | No | No | 2.00 |
| 804 | 55.17 | 449.17 | 1.92 | 1.45 | 1.00 | 136.44 | 1.25 | 170.63 | 0.542 | No | No | 2.00 |
| 805 | 55.25 | 410.54 | 1.98 | 1.59 | 1.00 | 124.51 | 1.29 | 160.49 | 0.464 | No | No | 2.00 |
| 806 | 55.31 | 394.21 | 1.98 | 1.55 | 1.00 | 119.43 | 1.29 | 154.46 | 0.423 | No | No | 2.00 |
| 807 | 55.36 | 388.18 | 1.95 | 1.35 | 1.00 | 117.52 | 1.27 | 148.87 | 0.387 | No | No | 1.98 |
| 808 | 55.45 | 381.09 | 1.91 | 1.20 | 1.00 | 115.23 | 1.25 | 143.68 | 0.356 | No | No | 1.82 |
| 809 | 55.50 | 365.91 | 1.92 | 1.15 | 1.00 | 110.54 | 1.25 | 137.89 | 0.324 | No | No | 1.66 |
| 810 | 55.60 | 351.24 | 1.94 | 1.19 | 1.00 | 105.95 | 1.26 | 133.93 | 0.303 | No | No | 1.56 |
| 811 | 55.65 | 332.24 | 1.96 | 1.21 | 1.00 | 100.11 | 1.28 | 128.15 | 0.276 | No | No | 1.41 |
| 812 | 55.71 | 324.14 | 1.96 | 1.15 | 1.00 | 97.58 | 1.27 | 124.39 | 0.259 | No | No | 1.33 |
| 813 | 55.75 | 320.40 | 1.93 | 1.03 | 1.00 | 96.40 | 1.26 | 121.19 | 0.246 | No | No | 1.26 |
| 814 | 55.79 | 325.12 | 1.91 | 0.99 | 1.00 | 97.79 | 1.25 | 121.90 | 0.248 | No | No | 1.27 |
| 815 | 55.84 | 332.47 | 1.90 | 0.97 | 1.00 | 99.97 | 1.24 | 123.76 | 0.256 | No | No | 1.32 |
| 816 | 55.89 | 338.01 | 1.90 | 0.97 | 1.00 | 101.60 | 1.23 | 125.39 | 0.263 | No | No | 1.35 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 817 | 55.90 | 341.15 | 1.89 | 0.96 | 1.00 | 102.54 | 1.23 | 126.17 | 0.267 | No | No | 1.37 |
| 818 | 55.94 | 336.26 | 1.90 | 0.98 | 1.00 | 101.02 | 1.24 | 124.98 | 0.262 | No | No | 1.34 |
| 819 | 55.99 | 327.63 | 1.92 | 1.01 | 1.00 | 98.34 | 1.25 | 122.89 | 0.253 | No | No | 1.30 |
| 820 | 56.03 | 317.88 | 1.94 | 1.05 | 1.00 | 95.34 | 1.26 | 120.41 | 0.242 | No | No | 1.24 |
| 821 | 56.08 | 311.67 | 1.95 | 1.06 | 1.00 | 93.40 | 1.27 | 118.54 | 0.235 | No | No | 1.21 |
| 822 | 56.14 | 306.37 | 1.95 | 1.05 | 1.00 | 91.74 | 1.27 | 116.74 | 0.228 | No | No | 1.17 |
| 823 | 56.22 | 299.89 | 1.96 | 1.06 | 1.00 | 89.70 | 1.28 | 114.65 | 0.220 | No | No | 1.13 |
| 824 | 56.28 | 294.29 | 1.97 | 1.06 | 1.00 | 87.95 | 1.28 | 112.90 | 0.214 | No | No | 1.10 |
| 825 | 56.33 | 292.57 | 1.97 | 1.06 | 1.00 | 87.39 | 1.29 | 112.38 | 0.212 | No | No | 1.09 |
| 826 | 56.38 | 294.06 | 1.97 | 1.04 | 1.00 | 87.79 | 1.28 | 112.46 | 0.212 | No | No | 1.09 |
| 827 | 56.45 | 301.34 | 1.95 | 1.02 | 1.00 | 89.92 | 1.27 | 114.23 | 0.219 | No | No | 1.13 |
| 828 | 56.52 | 312.58 | 1.93 | 0.98 | 1.00 | 93.24 | 1.25 | 117.01 | 0.229 | No | No | 1.18 |
| 829 | 56.62 | 325.19 | 1.90 | 0.94 | 1.00 | 96.94 | 1.24 | 120.21 | 0.242 | No | No | 1.24 |
| 830 | 56.66 | 338.42 | 1.87 | 0.89 | 1.00 | 100.88 | 1.22 | 123.02 | 0.253 | No | No | 1.30 |
| 831 | 56.73 | 350.06 | 1.87 | 0.90 | 1.00 | 104.30 | 1.21 | 126.65 | 0.269 | No | No | 1.39 |
| 832 | 56.81 | 357.11 | 1.87 | 0.94 | 1.00 | 106.33 | 1.22 | 129.59 | 0.282 | No | No | 1.46 |
| 833 | 56.95 | 363.42 | 1.89 | 1.01 | 1.00 | 108.06 | 1.23 | 132.64 | 0.297 | No | No | 1.53 |
| 834 | 57.00 | 372.46 | 1.88 | 1.03 | 1.00 | 110.72 | 1.23 | 135.80 | 0.313 | No | No | 1.61 |
| 835 | 57.09 | 373.11 | 1.89 | 1.06 | 1.00 | 110.80 | 1.23 | 136.52 | 0.317 | No | No | 1.63 |
| 836 | 57.19 | 368.58 | 1.91 | 1.10 | 1.00 | 109.32 | 1.24 | 135.85 | 0.313 | No | No | 1.62 |
| 837 | 57.27 | 354.04 | 1.92 | 1.11 | 1.00 | 104.88 | 1.25 | 131.44 | 0.291 | No | No | 1.50 |
| 838 | 57.35 | 357.65 | 1.89 | 0.99 | 1.00 | 105.87 | 1.23 | 130.16 | 0.285 | No | No | 1.47 |
| 839 | 57.44 | 356.17 | 1.86 | 0.89 | 1.00 | 105.33 | 1.21 | 127.36 | 0.272 | No | No | 1.41 |
| 840 | 57.50 | 364.37 | 1.83 | 0.81 | 1.00 | 107.70 | 1.18 | 127.07 | 0.271 | No | No | 1.40 |
| 841 | 57.52 | 378.10 | 1.83 | 0.84 | 1.00 | 111.77 | 1.18 | 131.85 | 0.293 | No | No | 1.52 |
| 842 | 57.58 | 409.37 | 1.82 | 0.90 | 1.00 | 121.03 | 1.17 | 141.73 | 0.345 | No | No | 1.78 |
| 843 | 57.63 | 432.08 | 1.81 | 0.95 | 1.00 | 127.73 | 1.17 | 149.17 | 0.389 | No | No | 2.00 |
| 844 | 57.72 | 439.00 | 1.81 | 0.96 | 1.00 | 129.66 | 1.17 | 151.31 | 0.402 | No | No | 2.00 |
| 845 | 57.77 | 433.73 | 1.80 | 0.92 | 1.00 | 128.03 | 1.16 | 148.26 | 0.383 | No | No | 1.98 |
| 846 | 57.82 | 429.55 | 1.78 | 0.84 | 1.00 | 126.71 | 1.13 | 143.29 | 0.354 | No | No | 1.83 |
| 847 | 57.91 | 436.73 | 1.74 | 0.73 | 1.00 | 128.72 | 1.06 | 137.09 | 0.320 | No | No | 1.66 |
| 848 | 57.96 | 442.84 | 1.69 | 0.63 | 1.00 | 130.46 | 1.00 | 130.46 | 0.287 | No | No | 1.48 |
| 849 | 58.02 | 458.90 | 1.66 | 0.57 | 1.00 | 135.16 | 1.00 | 135.16 | 0.310 | No | No | 1.61 |
| 850 | 58.09 | 469.26 | 1.65 | 0.56 | 1.00 | 138.12 | 1.00 | 138.12 | 0.325 | No | No | 1.69 |
| 851 | 58.16 | 484.88 | 1.63 | 0.56 | 1.00 | 142.65 | 1.00 | 142.65 | 0.350 | No | No | 1.82 |
| 852 | 58.25 | 491.12 | 1.64 | 0.58 | 1.00 | 144.36 | 1.00 | 144.36 | 0.360 | No | No | 1.87 |
| 853 | 58.30 | 487.65 | 1.66 | 0.63 | 1.00 | 143.26 | 1.00 | 143.26 | 0.353 | No | No | 1.83 |
| 854 | 58.40 | 479.62 | 1.69 | 0.68 | 1.00 | 140.74 | 1.00 | 140.74 | 0.339 | No | No | 1.76 |
| 855 | 58.50 | 468.52 | 1.71 | 0.72 | 1.00 | 137.31 | 1.02 | 139.77 | 0.334 | No | No | 1.74 |
| 856 | 58.56 | 467.50 | 1.71 | 0.71 | 1.00 | 136.92 | 1.01 | 138.70 | 0.328 | No | No | 1.71 |
| 857 | 58.64 | 464.81 | 1.72 | 0.73 | 1.00 | 136.01 | 1.03 | 140.28 | 0.337 | No | No | 1.75 |
| 858 | 58.73 | 474.79 | 1.73 | 0.77 | 1.00 | 138.81 | 1.05 | 145.16 | 0.364 | No | No | 1.90 |
| 859 | 58.78 | 488.15 | 1.72 | 0.76 | 1.00 | 142.67 | 1.02 | 145.87 | 0.369 | No | No | 1.92 |
| 860 | 58.88 | 506.71 | 1.69 | 0.74 | 1.00 | 147.98 | 1.00 | 147.98 | 0.381 | No | No | 1.98 |
| 861 | 58.97 | 511.03 | 1.66 | 0.67 | 1.00 | 149.10 | 1.00 | 149.10 | 0.388 | No | No | 2.00 |
| 862 | 59.07 | 506.24 | 1.66 | 0.64 | 1.00 | 147.53 | 1.00 | 147.53 | 0.379 | No | No | 1.97 |
| 863 | 59.13 | 493.59 | 1.65 | 0.61 | 1.00 | 143.73 | 1.00 | 143.73 | 0.356 | No | No | 1.86 |
| 864 | 59.23 | 484.71 | 1.65 | 0.59 | 1.00 | 140.99 | 1.00 | 140.99 | 0.341 | No | No | 1.78 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 865 | 59.31 | 464.47 | 1.65 | 0.56 | 1.00 | 134.94 | 1.00 | 134.94 | 0.308 | No | No | 1.61 |
| 866 | 59.38 | 450.35 | 1.65 | 0.54 | 1.00 | 130.71 | 1.00 | 130.71 | 0.288 | No | No | 1.50 |
| 867 | 59.41 | 439.19 | 1.66 | 0.53 | 1.00 | 127.40 | 1.00 | 127.40 | 0.272 | No | No | 1.42 |
| 868 | 59.46 | 443.57 | 1.65 | 0.53 | 1.00 | 128.62 | 1.00 | 128.62 | 0.278 | No | No | 1.45 |
| 869 | 59.51 | 443.56 | 1.65 | 0.52 | 1.00 | 128.55 | 1.00 | 128.55 | 0.278 | No | No | 1.45 |
| 870 | 59.57 | 451.89 | 1.67 | 0.58 | 1.00 | 130.91 | 1.00 | 130.91 | 0.289 | No | No | 1.51 |
| 871 | 59.66 | 471.05 | 1.67 | 0.61 | 1.00 | 136.37 | 1.00 | 136.37 | 0.316 | No | No | 1.65 |
| 872 | 59.75 | 492.31 | 1.70 | 0.71 | 1.00 | 142.44 | 1.00 | 142.44 | 0.349 | No | No | 1.82 |
| 873 | 59.80 | 506.48 | 1.71 | 0.77 | 1.00 | 146.48 | 1.01 | 147.84 | 0.380 | No | No | 1.99 |
| 874 | 59.85 | 508.64 | 1.74 | 0.86 | 1.00 | 147.04 | 1.07 | 156.99 | 0.440 | No | No | 2.00 |
| 875 | 59.91 | 504.22 | 1.75 | 0.88 | 1.00 | 145.65 | 1.08 | 158.02 | 0.447 | No | No | 2.00 |
| 876 | 59.99 | 498.85 | 1.77 | 0.91 | 1.00 | 143.96 | 1.11 | 159.53 | 0.458 | No | No | 2.00 |
| 877 | 60.05 | 480.97 | 1.81 | 1.03 | 1.00 | 138.68 | 1.17 | 161.59 | 0.472 | No | No | 2.00 |
| 878 | 60.09 | 464.78 | 1.85 | 1.12 | 1.00 | 133.92 | 1.20 | 160.52 | 0.465 | No | No | 2.00 |
| 879 | 60.14 | 444.43 | 1.88 | 1.17 | 1.00 | 127.94 | 1.22 | 156.08 | 0.434 | No | No | 2.00 |
| 880 | 60.19 | 437.86 | 1.87 | 1.13 | 1.00 | 125.96 | 1.22 | 153.23 | 0.415 | No | No | 2.00 |
| 881 | 60.22 | 434.25 | 1.87 | 1.11 | 1.00 | 124.88 | 1.21 | 151.55 | 0.404 | No | No | 2.00 |
| 882 | 60.28 | 412.99 | 1.89 | 1.13 | 1.00 | 118.63 | 1.23 | 145.94 | 0.369 | No | No | 1.93 |
| 883 | 60.33 | 381.24 | 1.93 | 1.19 | 1.00 | 109.36 | 1.26 | 137.48 | 0.322 | No | No | 1.69 |
| 884 | 60.38 | 338.97 | 2.00 | 1.32 | 1.00 | 97.07 | 1.31 | 126.83 | 0.270 | No | No | 1.41 |
| 885 | 60.42 | 309.75 | 2.05 | 1.40 | 1.00 | 88.57 | 1.35 | 119.65 | 0.239 | No | No | 1.25 |
| 886 | 60.48 | 282.02 | 2.07 | 1.37 | 1.00 | 80.50 | 1.38 | 111.02 | 0.207 | No | No | 1.09 |
| 887 | 60.57 | 262.48 | 2.05 | 1.17 | 1.00 | 74.78 | 1.36 | 101.50 | 0.177 | No | No | 0.93 |
| 888 | 60.66 | 243.89 | 2.02 | 0.93 | 1.00 | 69.35 | 1.32 | 91.67 | 0.152 | No | No | 0.80 |
| 889 | 60.68 | 232.16 | 1.99 | 0.79 | 1.00 | 65.95 | 1.30 | 85.85 | 0.139 | No | No | 0.73 |
| 890 | 60.69 | 225.51 | 1.98 | 0.72 | 1.00 | 64.02 | 1.29 | 82.84 | 0.133 | No | No | 0.70 |
| 891 | 60.74 | 217.75 | 1.99 | 0.69 | 1.00 | 61.75 | 1.30 | 80.07 | 0.128 | No | No | 0.67 |
| 892 | 60.79 | 206.27 | 2.00 | 0.66 | 1.00 | 58.41 | 1.30 | 76.18 | 0.121 | No | No | 0.64 |
| 893 | 60.84 | 192.16 | 2.02 | 0.64 | 1.00 | 54.32 | 1.32 | 71.82 | 0.114 | No | No | 0.60 |
| 894 | 60.89 | 182.35 | 2.03 | 0.62 | 1.00 | 51.47 | 1.33 | 68.64 | 0.110 | No | No | 0.58 |
| 895 | 60.98 | 174.35 | 2.05 | 0.63 | 1.00 | 49.12 | 1.36 | 66.57 | 0.107 | No | No | 0.56 |
| 896 | 61.03 | 168.07 | 2.13 | 0.84 | 1.00 | 47.30 | 1.46 | 69.19 | 0.111 | No | No | 0.58 |
| 897 | 61.08 | 164.86 | 2.24 | 1.28 | 1.00 | 46.35 | 1.72 | 79.69 | 0.127 | No | No | 0.67 |
| 898 | 61.18 | 164.63 | 2.31 | 1.64 | 1.00 | 46.24 | 1.95 | 90.12 | 0.148 | No | No | 0.78 |
| 899 | 61.23 | 168.20 | 2.35 | 1.96 | 1.00 | 47.23 | 2.12 | 100.04 | 0.173 | No | No | 0.91 |
| 900 | 61.31 | 194.08 | 2.24 | 1.58 | 1.00 | 54.62 | 1.72 | 94.03 | 0.157 | No | No | 0.83 |
| 901 | 61.42 | 236.42 | 2.09 | 1.19 | 1.00 | 66.70 | 1.41 | 94.11 | 0.158 | No | No | 0.83 |
| 902 | 61.47 | 287.17 | 1.90 | 0.74 | 1.00 | 81.21 | 1.24 | 100.64 | 0.175 | No | No | 0.92 |
| 903 | 61.51 | 331.30 | 1.79 | 0.58 | 1.00 | 93.81 | 1.14 | 107.25 | 0.195 | No | No | 1.03 |
| 904 | 61.54 | 366.14 | 1.73 | 0.52 | 1.00 | 103.76 | 1.05 | 108.54 | 0.199 | No | No | 1.05 |
| 905 | 61.57 | 395.83 | 1.70 | 0.53 | 1.00 | 112.23 | 1.00 | 112.23 | 0.211 | No | No | 1.11 |
| 906 | 61.58 | 418.64 | 1.67 | 0.50 | 1.00 | 118.74 | 1.00 | 118.74 | 0.236 | No | No | 1.24 |
| 907 | 61.61 | 393.43 | 1.70 | 0.50 | 1.00 | 111.49 | 1.00 | 111.49 | 0.209 | No | No | 1.10 |
| 908 | 61.63 | 367.65 | 1.72 | 0.50 | 1.00 | 104.10 | 1.03 | 107.07 | 0.194 | No | No | 1.02 |
| 909 | 61.63 | 257.89 | 1.94 | 0.73 | 1.00 | 72.70 | 1.26 | 91.77 | 0.152 | No | No | 0.80 |
| 910 | 61.66 | 191.36 | 2.14 | 1.04 | 1.00 | 53.66 | 1.48 | 79.27 | 0.126 | No | No | 0.67 |
| 911 | 61.67 | 129.55 | 2.40 | 1.69 | 1.00 | 35.97 | 2.37 | 85.35 | 0.138 | No | No | 0.73 |
| 912 | 61.70 | 152.96 | 2.31 | 1.50 | 1.00 | 42.66 | 1.96 | 83.80 | 0.135 | No | No | 0.71 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 913 | 61.71 | 180.90 | 2.22 | 1.34 | 1.00 | 50.64 | 1.67 | 84.55 | 0.136 | No | No | 0.72 |
| 914 | 61.76 | 206.41 | 2.15 | 1.24 | 1.00 | 57.90 | 1.51 | 87.45 | 0.142 | No | No | 0.75 |
| 915 | 61.80 | 228.84 | 2.10 | 1.15 | 1.00 | 64.28 | 1.42 | 91.10 | 0.150 | No | No | 0.79 |
| 916 | 61.84 | 250.40 | 2.03 | 1.01 | 1.00 | 70.41 | 1.34 | 94.04 | 0.157 | No | No | 0.83 |
| 917 | 61.86 | 279.75 | 1.93 | 0.78 | 1.00 | 78.77 | 1.26 | 98.87 | 0.170 | No | No | 0.90 |
| 918 | 61.93 | 312.34 | 1.82 | 0.60 | 1.00 | 88.02 | 1.18 | 103.69 | 0.184 | No | No | 0.97 |
| 919 | 61.98 | 357.76 | 1.73 | 0.50 | 1.00 | 100.92 | 1.00 | 100.92 | 0.176 | No | No | 0.93 |
| 920 | 62.04 | 405.56 | 1.68 | 0.50 | 1.00 | 114.48 | 1.00 | 114.48 | 0.220 | No | No | 1.16 |
| 921 | 62.09 | 451.78 | 1.64 | 0.49 | 1.00 | 127.59 | 1.00 | 127.59 | 0.273 | No | No | 1.44 |
| 922 | 62.14 | 481.91 | 1.62 | 0.49 | 1.00 | 136.10 | 1.00 | 136.10 | 0.314 | No | No | 1.66 |
| 923 | 62.19 | 499.12 | 1.60 | 0.47 | 1.00 | 140.93 | 1.00 | 140.93 | 0.340 | No | No | 1.80 |
| 924 | 62.24 | 508.93 | 1.59 | 0.47 | 1.00 | 143.65 | 1.00 | 143.65 | 0.356 | No | No | 1.88 |
| 925 | 62.26 | 519.32 | 1.58 | 0.47 | 1.00 | 146.58 | 1.00 | 146.58 | 0.373 | No | No | 1.97 |
| 926 | 62.29 | 519.05 | 1.58 | 0.47 | 1.00 | 146.46 | 1.00 | 146.46 | 0.372 | No | No | 1.97 |
| 927 | 62.38 | 515.71 | 1.60 | 0.51 | 1.00 | 145.37 | 1.00 | 145.37 | 0.366 | No | No | 1.93 |
| 928 | 62.44 | 490.28 | 1.65 | 0.57 | 1.00 | 138.07 | 1.00 | 138.07 | 0.325 | No | No | 1.72 |
| 929 | 62.46 | 469.07 | 1.69 | 0.62 | 1.00 | 132.02 | 1.00 | 132.02 | 0.294 | No | No | 1.55 |
| 930 | 62.47 | 448.15 | 1.70 | 0.62 | 1.00 | 126.07 | 1.00 | 126.07 | 0.266 | No | No | 1.41 |
| 931 | 62.51 | 453.68 | 1.69 | 0.61 | 1.00 | 127.59 | 1.00 | 127.59 | 0.273 | No | No | 1.44 |
| 932 | 62.56 | 463.98 | 1.69 | 0.61 | 1.00 | 130.45 | 1.00 | 130.45 | 0.286 | No | No | 1.52 |
| 933 | 62.60 | 477.62 | 1.68 | 0.62 | 1.00 | 134.26 | 1.00 | 134.26 | 0.305 | No | No | 1.61 |
| 934 | 62.65 | 481.73 | 1.68 | 0.62 | 1.00 | 135.35 | 1.00 | 135.35 | 0.311 | No | No | 1.64 |
| 935 | 62.70 | 482.34 | 1.66 | 0.58 | 1.00 | 135.46 | 1.00 | 135.46 | 0.311 | No | No | 1.65 |
| 936 | 62.75 | 483.05 | 1.65 | 0.56 | 1.00 | 135.59 | 1.00 | 135.59 | 0.312 | No | No | 1.65 |
| 937 | 62.80 | 494.83 | 1.64 | 0.55 | 1.00 | 138.85 | 1.00 | 138.85 | 0.329 | No | No | 1.74 |
| 938 | 62.85 | 525.29 | 1.60 | 0.52 | 1.00 | 147.40 | 1.00 | 147.40 | 0.378 | No | No | 2.00 |
| 939 | 62.89 | 569.18 | 1.56 | 0.50 | 1.00 | 159.73 | 1.00 | 159.73 | 0.459 | No | No | 2.00 |
| 940 | 62.97 | 619.66 | 1.54 | 0.51 | 1.00 | 173.86 | 1.00 | 173.86 | 0.569 | No | No | 2.00 |
| 941 | 63.04 | 667.84 | 1.52 | 0.52 | 1.00 | 187.32 | 1.00 | 187.32 | 0.691 | No | No | 2.00 |
| 942 | 63.09 | 703.12 | 1.50 | 0.52 | 1.00 | 197.18 | 1.00 | 197.18 | 0.793 | No | No | 2.00 |
| 943 | 63.13 | 715.51 | 1.51 | 0.54 | 1.00 | 200.57 | 1.00 | 200.57 | 4.000 | No | No | 2.00 |
| 944 | 63.19 | 716.52 | 1.54 | 0.60 | 1.00 | 200.74 | 1.00 | 200.74 | 4.000 | No | No | 2.00 |
| 945 | 63.23 | 720.23 | 1.57 | 0.67 | 1.00 | 201.69 | 1.00 | 201.69 | 4.000 | No | No | 2.00 |
| 946 | 63.28 | 726.78 | 1.59 | 0.73 | 1.00 | 203.42 | 1.00 | 203.42 | 4.000 | No | No | 2.00 |
| 947 | 63.32 | 729.18 | 1.57 | 0.68 | 1.00 | 204.02 | 1.00 | 204.02 | 4.000 | No | No | 2.00 |
| 948 | 63.38 | 725.67 | 1.49 | 0.51 | 1.00 | 202.89 | 1.00 | 202.89 | 4.000 | No | No | 2.00 |
| 949 | 63.44 | 726.68 | 1.43 | 0.41 | 1.00 | 203.06 | 1.00 | 203.06 | 4.000 | No | No | 2.00 |
| 950 | 63.52 | 715.48 | 1.43 | 0.40 | 1.00 | 199.75 | 1.00 | 199.75 | 0.821 | No | No | 2.00 |
| 951 | 63.57 | 697.37 | 1.49 | 0.49 | 1.00 | 194.57 | 1.00 | 194.57 | 0.765 | No | No | 2.00 |
| 952 | 63.66 | 659.58 | 1.52 | 0.51 | 1.00 | 183.79 | 1.00 | 183.79 | 0.657 | No | No | 2.00 |
| 953 | 63.73 | 534.95 | 1.63 | 0.58 | 1.00 | 148.76 | 1.00 | 148.76 | 0.386 | No | No | 2.00 |
| 954 | 63.76 | 455.61 | 1.72 | 0.67 | 1.00 | 126.50 | 1.03 | 130.54 | 0.287 | No | No | 1.53 |
| 955 | 63.76 | 411.85 | 1.77 | 0.71 | 1.00 | 114.24 | 1.12 | 127.66 | 0.274 | No | No | 1.45 |
| 956 | 63.78 | 471.87 | 1.70 | 0.64 | 1.00 | 131.02 | 1.00 | 131.02 | 0.289 | No | No | 1.54 |
| 957 | 63.81 | 512.86 | 1.67 | 0.65 | 1.00 | 142.46 | 1.00 | 142.46 | 0.349 | No | No | 1.86 |
| 958 | 63.85 | 526.43 | 1.68 | 0.68 | 1.00 | 146.19 | 1.00 | 146.19 | 0.371 | No | No | 1.97 |
| 959 | 63.86 | 522.58 | 1.70 | 0.74 | 1.00 | 145.10 | 1.00 | 145.10 | 0.364 | No | No | 1.94 |
| 960 | 63.91 | 497.92 | 1.74 | 0.81 | 1.00 | 138.14 | 1.07 | 148.35 | 0.384 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 961 | 63.94 | 483.78 | 1.77 | 0.87 | 1.00 | 134.14 | 1.12 | 150.35 | 0.396 | No | No | 2.00 |
| 962 | 63.95 | 480.34 | 1.79 | 0.90 | 1.00 | 133.15 | 1.14 | 151.38 | 0.403 | No | No | 2.00 |
| 963 | 64.00 | 476.26 | 1.79 | 0.91 | 1.00 | 131.94 | 1.14 | 150.67 | 0.398 | No | No | 2.00 |
| 964 | 64.02 | 473.22 | 1.79 | 0.89 | 1.00 | 131.08 | 1.14 | 149.37 | 0.390 | No | No | 2.00 |
| 965 | 64.05 | 475.78 | 1.78 | 0.86 | 1.00 | 131.75 | 1.12 | 148.02 | 0.382 | No | No | 2.00 |
| 966 | 64.09 | 478.18 | 1.77 | 0.83 | 1.00 | 132.36 | 1.11 | 146.64 | 0.373 | No | No | 1.99 |
| 967 | 64.11 | 480.07 | 1.75 | 0.80 | 1.00 | 132.86 | 1.09 | 144.77 | 0.362 | No | No | 1.93 |
| 968 | 64.15 | 482.26 | 1.74 | 0.77 | 1.00 | 133.43 | 1.07 | 142.44 | 0.349 | No | No | 1.86 |
| 969 | 64.20 | 494.31 | 1.72 | 0.74 | 1.00 | 136.71 | 1.03 | 141.24 | 0.342 | No | No | 1.82 |
| 970 | 64.25 | 512.59 | 1.70 | 0.72 | 1.00 | 141.74 | 1.00 | 141.74 | 0.345 | No | No | 1.84 |
| 971 | 64.29 | 535.70 | 1.68 | 0.70 | 1.00 | 148.11 | 1.00 | 148.11 | 0.382 | No | No | 2.00 |
| 972 | 64.34 | 570.38 | 1.64 | 0.65 | 1.00 | 157.68 | 1.00 | 157.68 | 0.445 | No | No | 2.00 |
| 973 | 64.43 | 605.81 | 1.60 | 0.60 | 1.00 | 167.40 | 1.00 | 167.40 | 0.516 | No | No | 2.00 |
| 974 | 64.48 | 630.95 | 1.56 | 0.56 | 1.00 | 174.30 | 1.00 | 174.30 | 0.572 | No | No | 2.00 |
| 975 | 64.53 | 642.69 | 1.53 | 0.51 | 1.00 | 177.47 | 1.00 | 177.47 | 0.600 | No | No | 2.00 |
| 976 | 64.58 | 655.07 | 1.52 | 0.49 | 1.00 | 180.82 | 1.00 | 180.82 | 0.630 | No | No | 2.00 |
| 977 | 64.63 | 680.65 | 1.51 | 0.49 | 1.00 | 187.83 | 1.00 | 187.83 | 0.696 | No | No | 2.00 |
| 978 | 64.68 | 709.63 | 1.52 | 0.55 | 1.00 | 195.77 | 1.00 | 195.77 | 0.778 | No | No | 2.00 |
| 979 | 64.73 | 718.74 | 1.53 | 0.57 | 1.00 | 198.20 | 1.00 | 198.20 | 0.804 | No | No | 2.00 |
| 980 | 64.77 | 735.60 | 1.51 | 0.56 | 1.00 | 202.79 | 1.00 | 202.79 | 4.000 | No | No | 2.00 |
| 981 | 64.82 | 751.19 | 1.48 | 0.51 | 1.00 | 207.01 | 1.00 | 207.01 | 4.000 | No | No | 2.00 |
| 982 | 64.87 | 732.64 | 1.49 | 0.51 | 1.00 | 201.76 | 1.00 | 201.76 | 4.000 | No | No | 2.00 |
| 983 | 64.89 | 713.98 | 1.50 | 0.52 | 1.00 | 196.56 | 1.00 | 196.56 | 0.786 | No | No | 2.00 |
| 984 | 64.93 | 689.59 | 1.53 | 0.54 | 1.00 | 189.73 | 1.00 | 189.73 | 0.715 | No | No | 2.00 |
| 985 | 64.94 | 715.81 | 1.51 | 0.53 | 1.00 | 196.96 | 1.00 | 196.96 | 0.791 | No | No | 2.00 |
| 986 | 64.98 | 725.69 | 1.50 | 0.53 | 1.00 | 199.62 | 1.00 | 199.62 | 0.820 | No | No | 2.00 |
| 987 | 64.99 | 734.03 | 1.50 | 0.52 | 1.00 | 201.90 | 1.00 | 201.90 | 4.000 | No | No | 2.00 |
| 988 | 65.03 | 732.37 | 1.50 | 0.52 | 1.00 | 201.35 | 1.00 | 201.35 | 4.000 | No | No | 2.00 |
| 989 | 65.08 | 727.04 | 1.49 | 0.50 | 1.00 | 199.79 | 1.00 | 199.79 | 0.822 | No | No | 2.00 |
| 990 | 65.13 | 715.51 | 1.48 | 0.47 | 1.00 | 196.50 | 1.00 | 196.50 | 0.786 | No | No | 2.00 |
| 991 | 65.17 | 703.60 | 1.46 | 0.43 | 1.00 | 193.13 | 1.00 | 193.13 | 0.750 | No | No | 2.00 |
| 992 | 65.22 | 689.29 | 1.45 | 0.41 | 1.00 | 189.08 | 1.00 | 189.08 | 0.709 | No | No | 2.00 |
| 993 | 65.23 | 681.55 | 1.45 | 0.40 | 1.00 | 186.93 | 1.00 | 186.93 | 0.687 | No | No | 2.00 |
| 994 | 65.28 | 679.28 | 1.46 | 0.40 | 1.00 | 186.22 | 1.00 | 186.22 | 0.681 | No | No | 2.00 |
| 995 | 65.32 | 679.65 | 1.47 | 0.43 | 1.00 | 186.24 | 1.00 | 186.24 | 0.681 | No | No | 2.00 |
| 996 | 65.37 | 680.17 | 1.49 | 0.45 | 1.00 | 186.30 | 1.00 | 186.30 | 0.681 | No | No | 2.00 |
| 997 | 65.42 | 684.61 | 1.50 | 0.48 | 1.00 | 187.42 | 1.00 | 187.42 | 0.692 | No | No | 2.00 |
| 998 | 65.47 | 671.65 | 1.50 | 0.48 | 1.00 | 183.76 | 1.00 | 183.76 | 0.657 | No | No | 2.00 |
| 999 | 65.48 | 657.21 | 1.52 | 0.49 | 1.00 | 179.77 | 1.00 | 179.77 | 0.620 | No | No | 2.00 |
| 1000 | 65.49 | 638.86 | 1.52 | 0.48 | 1.00 | 174.70 | 1.00 | 174.70 | 0.576 | No | No | 2.00 |
| 1001 | 65.52 | 636.56 | 1.52 | 0.47 | 1.00 | 174.01 | 1.00 | 174.01 | 0.570 | No | No | 2.00 |
| 1002 | 65.57 | 645.67 | 1.41 | 0.30 | 1.00 | 176.43 | 1.00 | 176.43 | 0.591 | No | No | 2.00 |
| 1003 | 65.62 | 661.16 | 1.28 | 0.15 | 1.00 | 180.61 | 1.00 | 180.61 | 0.628 | No | No | 2.00 |
| 1004 | 65.67 | 682.44 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1005 | 65.69 | 697.23 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1006 | 65.72 | 719.02 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1007 | 65.77 | 752.26 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1008 | 65.82 | 790.78 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1009 | 65.86 | 811.97 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1010 | 65.86 | 833.63 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1011 | 65.91 | 854.04 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1012 | 65.96 | 878.41 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |

**Abbreviations**

Depth: Depth from free surface, at which CPT was performed (ft)
$q_t$: Total cone resistance
$I_c$: Soil behavior type index
Fr: Normalized friction ratio (%)
n: Stress exponent
$Q_{tn}$: Normalized cone resistance
$K_c$: Cone resistance correction factor due to fines
$Q_{tn,cs}$: Normalized and adjusted cone resistance
$CRR_{7.5}$: Cyclic resistance ratio for $M_w$=7.5
FS: Factor of safety against soil liquefaction

**:: Liquefaction Potential Index calculation data ::**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.01 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.04 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 0.08 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.10 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 0.13 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.18 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 0.22 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.27 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 0.33 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.36 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 0.37 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.38 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 0.42 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.44 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 0.47 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.47 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 0.52 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.56 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 0.58 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.61 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 0.66 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.76 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 0.80 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.81 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 0.85 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.86 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 0.90 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.95 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 1.00 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 1.05 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 1.14 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 1.24 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 1.31 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 1.36 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 1.37 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 1.39 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 1.43 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 1.44 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 1.49 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 1.53 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 1.58 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 1.63 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 1.68 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 1.72 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 1.77 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 1.82 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 1.86 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 1.92 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 1.97 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 2.01 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 2.09 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 2.16 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 2.20 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 2.25 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 2.31 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 2.37 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 2.40 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 2.46 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 2.54 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 2.59 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 2.69 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 2.74 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 2.83 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 2.88 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 2.98 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 3.03 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 3.12 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 3.21 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 3.27 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 3.34 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 3.41 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 3.51 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 3.55 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 3.65 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 3.75 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 3.83 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 3.94 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 4.04 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 4.13 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 4.24 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 4.38 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 4.50 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 |
| 4.62 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 | 4.71 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 4.75 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 4.84 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 4.89 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 4.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 4.98 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 5.07 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 5.13 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 5.17 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 5.27 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 5.32 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 5.42 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 5.46 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.56 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 5.61 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 5.71 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 5.78 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 5.85 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 5.95 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 6.00 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 6.09 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 6.14 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 6.24 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 6.30 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 6.38 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 6.46 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 6.50 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 6.56 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 6.63 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 6.68 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 6.76 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 6.82 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 6.88 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 6.96 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 7.03 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 7.11 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 7.16 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 7.26 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 7.31 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 7.40 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 7.45 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 7.54 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 7.60 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 7.68 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 7.74 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 7.83 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 7.90 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 7.98 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 8.05 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 8.12 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 8.19 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 8.27 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 8.36 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 8.41 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 8.50 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 8.60 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 8.70 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 8.74 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 8.78 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 8.81 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 8.86 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 8.91 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 8.94 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 9.02 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 9.10 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 9.17 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 9.22 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 9.31 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 9.37 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 9.42 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 9.52 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 9.60 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 9.66 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 9.74 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 9.81 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 9.89 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 9.98 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 10.03 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 10.13 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 10.23 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 10.32 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 10.38 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 10.47 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 10.57 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 10.66 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 10.76 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 10.85 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 10.92 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 11.00 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 11.07 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 11.10 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 11.15 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 11.19 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 11.24 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 11.29 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 11.34 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 11.40 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 11.47 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 11.53 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 11.58 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 11.65 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 11.72 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 11.77 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 11.82 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 11.88 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 11.97 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 12.02 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 12.06 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 12.11 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12.21 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 12.25 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 12.30 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 12.31 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 12.32 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 12.35 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 12.40 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 12.45 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 12.52 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 12.56 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 12.62 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 12.65 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 12.71 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 12.76 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 12.83 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 12.88 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 12.93 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 12.98 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 13.03 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 13.04 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 13.07 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 13.13 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 13.17 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 13.22 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 13.27 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 13.32 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 13.37 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 13.41 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 13.46 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 13.51 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 13.56 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 13.60 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 13.66 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 13.75 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 13.80 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 13.89 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 13.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 13.99 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 14.09 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 14.14 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 14.23 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 14.28 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 14.38 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 14.42 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 14.52 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 14.57 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 14.67 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 14.68 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 14.70 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 14.75 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 14.80 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 14.89 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 14.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 15.04 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 15.13 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 15.21 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 15.28 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 15.38 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 15.47 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 15.57 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 15.67 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 15.77 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 15.86 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 15.96 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 16.05 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 16.15 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 16.25 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 16.31 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 16.39 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 16.48 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 16.59 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 16.68 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 16.76 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 16.86 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 16.92 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 17.02 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 17.11 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 17.22 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 17.35 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 17.45 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 17.55 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 17.61 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 17.64 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 17.70 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 17.75 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 17.80 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 17.85 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 17.94 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 17.99 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 18.09 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 18.15 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 18.23 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 18.33 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 18.43 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 18.52 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 18.59 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18.72 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 18.81 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 18.87 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 18.95 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 19.05 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 19.14 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 19.22 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 19.29 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 19.38 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 19.44 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 19.53 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 19.62 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 19.69 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 19.79 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 19.86 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 19.97 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 20.07 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 20.16 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 20.26 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 20.34 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 20.43 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 20.50 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 20.60 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 20.62 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 20.63 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 20.68 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 20.73 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 20.82 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 20.87 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 20.91 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 20.96 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 21.05 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 21.11 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 21.17 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 21.25 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 21.30 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 21.37 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 21.45 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 21.49 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 21.58 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 21.64 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 21.69 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 21.78 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 21.83 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 21.89 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 21.98 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 22.03 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 22.12 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 22.22 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 22.26 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.36 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 22.41 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.51 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 22.60 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 22.70 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 22.75 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.84 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 22.89 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.90 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 22.94 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 23.00 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 23.08 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 23.13 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 23.20 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 23.27 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 23.33 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 23.42 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 23.48 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 23.57 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 23.61 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 23.66 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 23.73 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 23.80 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 23.85 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 23.94 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 24.00 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 24.09 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 24.16 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 24.24 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 24.33 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 24.43 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 24.52 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 24.58 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 24.59 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 24.63 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 24.68 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 24.77 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 24.82 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 24.92 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 25.01 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 25.06 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 25.16 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 25.25 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 25.30 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 25.41 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 25.49 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.55 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 25.64 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 25.70 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 25.79 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 25.89 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 25.94 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 26.02 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 26.12 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 26.17 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 26.28 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 26.36 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 26.45 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 26.50 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 26.61 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 26.70 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 26.77 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 26.85 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 26.94 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 27.04 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 27.14 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 27.23 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 27.28 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 27.29 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 27.38 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 27.48 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 27.57 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 27.64 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 27.65 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 27.74 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 27.80 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 27.90 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 27.99 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 28.07 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 28.16 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 28.25 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 28.34 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 28.44 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 28.53 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 28.62 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 28.76 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 28.86 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 28.96 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 29.08 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 29.19 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 |
| 29.29 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 29.39 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 29.50 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 29.63 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 |
| 29.65 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 29.66 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 29.72 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 29.80 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 29.85 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 29.94 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 30.00 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 30.05 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 30.14 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 30.19 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 30.24 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 30.29 | 1.91 | 0.00 | 0.00 | 0.05 | 0.00 |
| 30.38 | 1.88 | 0.00 | 0.00 | 0.09 | 0.00 | 30.43 | 1.83 | 0.00 | 0.00 | 0.05 | 0.00 |
| 30.48 | 1.77 | 0.00 | 0.00 | 0.05 | 0.00 | 30.54 | 1.71 | 0.00 | 0.00 | 0.06 | 0.00 |
| 30.62 | 1.69 | 0.00 | 0.00 | 0.08 | 0.00 | 30.67 | 1.67 | 0.00 | 0.00 | 0.05 | 0.00 |
| 30.72 | 1.67 | 0.00 | 0.00 | 0.05 | 0.00 | 30.76 | 1.68 | 0.00 | 0.00 | 0.04 | 0.00 |
| 30.86 | 1.71 | 0.00 | 0.00 | 0.10 | 0.00 | 30.91 | 1.74 | 0.00 | 0.00 | 0.05 | 0.00 |
| 30.95 | 1.79 | 0.00 | 0.00 | 0.05 | 0.00 | 31.03 | 1.84 | 0.00 | 0.00 | 0.07 | 0.00 |
| 31.10 | 1.89 | 0.00 | 0.00 | 0.07 | 0.00 | 31.15 | 1.94 | 0.00 | 0.00 | 0.05 | 0.00 |
| 31.20 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 31.26 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 31.34 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 31.37 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 31.38 | 1.99 | 0.00 | 0.00 | 0.01 | 0.00 | 31.43 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 31.47 | 1.91 | 0.00 | 0.00 | 0.05 | 0.00 | 31.55 | 1.79 | 0.00 | 0.00 | 0.07 | 0.00 |
| 31.59 | 1.61 | 0.00 | 0.00 | 0.05 | 0.00 | 31.66 | 1.40 | 0.00 | 0.00 | 0.06 | 0.00 |
| 31.73 | 1.23 | 0.00 | 0.00 | 0.08 | 0.00 | 31.78 | 1.10 | 0.00 | 0.00 | 0.05 | 0.00 |
| 31.84 | 1.03 | 0.00 | 0.00 | 0.06 | 0.00 | 31.93 | 1.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 31.98 | 1.02 | 0.00 | 0.00 | 0.05 | 0.00 | 32.02 | 1.07 | 0.00 | 0.00 | 0.05 | 0.00 |
| 32.09 | 1.13 | 0.00 | 0.00 | 0.07 | 0.00 | 32.16 | 1.16 | 0.00 | 0.00 | 0.07 | 0.00 |
| 32.22 | 1.17 | 0.00 | 0.00 | 0.05 | 0.00 | 32.27 | 1.17 | 0.00 | 0.00 | 0.05 | 0.00 |
| 32.34 | 1.17 | 0.00 | 0.00 | 0.07 | 0.00 | 32.42 | 1.16 | 0.00 | 0.00 | 0.08 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 32.46 | 1.15 | 0.00 | 0.00 | 0.04 | 0.00 | 32.54 | 1.14 | 0.00 | 0.00 | 0.09 | 0.00 |
| 32.60 | 1.12 | 0.00 | 0.00 | 0.06 | 0.00 | 32.67 | 1.11 | 0.00 | 0.00 | 0.07 | 0.00 |
| 32.75 | 1.12 | 0.00 | 0.00 | 0.08 | 0.00 | 32.81 | 1.15 | 0.00 | 0.00 | 0.06 | 0.00 |
| 32.89 | 1.20 | 0.00 | 0.00 | 0.08 | 0.00 | 32.94 | 1.17 | 0.00 | 0.00 | 0.05 | 0.00 |
| 32.95 | 1.19 | 0.00 | 0.00 | 0.01 | 0.00 | 33.00 | 1.22 | 0.00 | 0.00 | 0.05 | 0.00 |
| 33.06 | 1.32 | 0.00 | 0.00 | 0.06 | 0.00 | 33.11 | 1.35 | 0.00 | 0.00 | 0.05 | 0.00 |
| 33.20 | 1.35 | 0.00 | 0.00 | 0.09 | 0.00 | 33.25 | 1.34 | 0.00 | 0.00 | 0.05 | 0.00 |
| 33.34 | 1.32 | 0.00 | 0.00 | 0.09 | 0.00 | 33.38 | 1.33 | 0.00 | 0.00 | 0.04 | 0.00 |
| 33.48 | 1.35 | 0.00 | 0.00 | 0.10 | 0.00 | 33.58 | 1.39 | 0.00 | 0.00 | 0.10 | 0.00 |
| 33.63 | 1.46 | 0.00 | 0.00 | 0.04 | 0.00 | 33.73 | 1.55 | 0.00 | 0.00 | 0.10 | 0.00 |
| 33.82 | 1.65 | 0.00 | 0.00 | 0.09 | 0.00 | 33.87 | 1.77 | 0.00 | 0.00 | 0.05 | 0.00 |
| 33.96 | 1.91 | 0.00 | 0.00 | 0.09 | 0.00 | 34.02 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 34.11 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 34.18 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 34.26 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 34.35 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 34.44 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 34.49 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 34.59 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 34.69 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 34.76 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 34.83 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 34.93 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 35.02 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 35.12 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 35.22 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 35.30 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 35.38 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 35.43 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 35.46 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 35.51 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 35.56 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 35.66 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 35.70 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 35.80 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 35.89 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 35.96 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 36.04 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 36.14 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 36.19 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 36.28 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 36.33 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 36.42 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 36.48 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 36.52 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 36.62 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 36.68 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 36.77 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 36.86 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 36.90 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 37.00 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 37.10 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 37.20 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 37.29 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 37.39 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 37.49 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 37.53 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 37.58 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 37.62 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 37.69 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 37.77 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 37.82 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 37.87 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 37.91 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 37.97 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 38.06 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 38.10 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 38.17 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 38.25 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 38.35 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 38.40 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 38.46 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 38.54 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 38.60 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 38.69 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 38.74 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 38.83 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 38.88 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 38.97 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 39.02 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 39.11 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 39.16 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 39.23 | 1.92 | 0.00 | 0.00 | 0.06 | 0.00 | 39.24 | 1.83 | 0.00 | 0.00 | 0.01 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39.28 | 1.78 | 0.00 | 0.00 | 0.04 | 0.00 | 39.32 | 1.80 | 0.00 | 0.00 | 0.05 | 0.00 |
| 39.39 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 39.47 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 39.54 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 39.62 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 39.71 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 39.76 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 39.85 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 39.90 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 40.00 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 40.06 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 40.15 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 40.21 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 40.29 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 40.35 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 40.43 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 40.52 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 40.58 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 40.67 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 40.77 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 40.84 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 40.89 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 40.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 41.03 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 41.08 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 41.14 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 41.22 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 41.28 | 0.75 | 0.25 | 1.20 | 0.06 | 0.02 | 41.33 | 0.78 | 0.22 | 1.41 | 0.05 | 0.01 |
| 41.42 | 0.82 | 0.18 | 2.00 | 0.09 | 0.02 | 41.47 | 0.87 | 0.13 | 3.68 | 0.05 | 0.01 |
| 41.52 | 0.93 | 0.07 | 13.55 | 0.06 | 0.00 | 41.62 | 0.98 | 0.02 | 23365.55 | 0.09 | 0.00 |
| 41.67 | 1.07 | 0.00 | 0.00 | 0.05 | 0.00 | 41.76 | 1.16 | 0.00 | 0.00 | 0.09 | 0.00 |
| 41.82 | 1.28 | 0.00 | 0.00 | 0.06 | 0.00 | 41.90 | 1.37 | 0.00 | 0.00 | 0.08 | 0.00 |
| 41.99 | 1.44 | 0.00 | 0.00 | 0.09 | 0.00 | 42.05 | 1.48 | 0.00 | 0.00 | 0.06 | 0.00 |
| 42.15 | 1.48 | 0.00 | 0.00 | 0.10 | 0.00 | 42.23 | 1.46 | 0.00 | 0.00 | 0.09 | 0.00 |
| 42.30 | 1.43 | 0.00 | 0.00 | 0.07 | 0.00 | 42.38 | 1.36 | 0.00 | 0.00 | 0.08 | 0.00 |
| 42.48 | 1.27 | 0.00 | 0.00 | 0.10 | 0.00 | 42.57 | 1.18 | 0.00 | 0.00 | 0.09 | 0.00 |
| 42.64 | 1.11 | 0.00 | 0.00 | 0.07 | 0.00 | 42.72 | 1.04 | 0.00 | 0.00 | 0.08 | 0.00 |
| 42.82 | 0.98 | 0.02 | 148889.56 | 0.10 | 0.00 | 42.90 | 0.94 | 0.06 | 23.51 | 0.08 | 0.01 |
| 42.97 | 0.92 | 0.08 | 11.30 | 0.07 | 0.01 | 43.06 | 0.93 | 0.07 | 13.85 | 0.09 | 0.01 |
| 43.15 | 0.89 | 0.11 | 5.32 | 0.09 | 0.01 | 43.20 | 0.85 | 0.15 | 2.78 | 0.05 | 0.01 |
| 43.30 | 0.80 | 0.20 | 1.68 | 0.10 | 0.02 | 43.40 | 0.82 | 0.18 | 1.97 | 0.10 | 0.02 |
| 43.48 | 0.87 | 0.13 | 3.65 | 0.08 | 0.01 | 43.51 | 0.92 | 0.08 | 9.02 | 0.03 | 0.00 |
| 43.52 | 0.97 | 0.03 | 357.31 | 0.01 | 0.00 | 43.56 | 1.09 | 0.00 | 0.00 | 0.04 | 0.00 |
| 43.61 | 1.30 | 0.00 | 0.00 | 0.05 | 0.00 | 43.67 | 1.49 | 0.00 | 0.00 | 0.06 | 0.00 |
| 43.72 | 1.68 | 0.00 | 0.00 | 0.05 | 0.00 | 43.80 | 1.83 | 0.00 | 0.00 | 0.08 | 0.00 |
| 43.85 | 1.95 | 0.00 | 0.00 | 0.05 | 0.00 | 43.90 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 43.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 43.99 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 44.08 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 44.14 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 44.22 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 44.28 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 44.33 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 44.40 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 44.48 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 44.52 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 44.61 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 44.72 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 44.77 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 44.91 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 44.95 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 45.02 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 45.04 | 1.62 | 0.00 | 0.00 | 0.02 | 0.00 | 45.06 | 1.68 | 0.00 | 0.00 | 0.02 | 0.00 |
| 45.11 | 1.75 | 0.00 | 0.00 | 0.05 | 0.00 | 45.15 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 45.21 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 45.25 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 45.30 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 45.35 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 45.41 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 45.49 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 45.55 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 45.63 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 45.69 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 45.78 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 45.84 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 45.93 | 1.81 | 0.00 | 0.00 | 0.09 | 0.00 |
| 46.02 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 46.08 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 46.16 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 46.24 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 46.31 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 46.41 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 46.48 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 46.56 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 46.65 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 46.75 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 46.84 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 46.94 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 47.02 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 47.08 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 47.12 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 47.16 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 47.21 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 47.27 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 47.35 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 47.40 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 47.50 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 47.55 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 47.61 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 47.69 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 47.76 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 47.83 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 47.93 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 48.02 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 48.09 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 48.18 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 48.27 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 48.37 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 48.46 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 48.52 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 48.60 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 48.70 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 48.79 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 48.85 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 48.94 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 49.04 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 49.13 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 49.23 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 49.33 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 49.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 49.42 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 49.48 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 49.53 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 49.58 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 49.63 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 49.72 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 49.77 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 49.83 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 49.92 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 49.97 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 50.04 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 50.11 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 50.20 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 50.27 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 50.34 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 50.45 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 50.54 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 50.59 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 50.68 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 50.79 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 50.88 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 50.98 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 51.07 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 51.17 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 51.24 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 51.33 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 51.46 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 51.46 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 51.51 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 51.56 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 51.65 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 51.71 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 51.79 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 51.85 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 51.94 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 51.99 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 52.09 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 52.19 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 52.28 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 52.35 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 52.43 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 52.52 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 52.62 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 52.72 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 52.81 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 52.91 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 53.00 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 53.10 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 53.20 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 53.29 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 53.38 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 53.46 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 53.53 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 53.63 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 53.73 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 53.82 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 53.92 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 53.94 | 1.66 | 0.00 | 0.00 | 0.02 | 0.00 |
| 53.96 | 1.48 | 0.00 | 0.00 | 0.02 | 0.00 | 53.97 | 1.55 | 0.00 | 0.00 | 0.01 | 0.00 |
| 54.05 | 1.73 | 0.00 | 0.00 | 0.08 | 0.00 | 54.08 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 54.13 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 54.19 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 54.25 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 54.28 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 54.29 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 54.34 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 54.35 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 54.40 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 54.44 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 54.49 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 54.53 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 54.57 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 54.58 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 54.63 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 54.68 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 54.73 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 54.78 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 54.83 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 54.88 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 54.92 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 54.97 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 55.02 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 55.12 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 55.17 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 55.25 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 55.31 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 55.36 | 1.98 | 0.00 | 0.00 | 0.05 | 0.00 | 55.45 | 1.82 | 0.00 | 0.00 | 0.09 | 0.00 |
| 55.50 | 1.66 | 0.00 | 0.00 | 0.05 | 0.00 | 55.60 | 1.56 | 0.00 | 0.00 | 0.10 | 0.00 |
| 55.65 | 1.41 | 0.00 | 0.00 | 0.05 | 0.00 | 55.71 | 1.33 | 0.00 | 0.00 | 0.06 | 0.00 |
| 55.75 | 1.26 | 0.00 | 0.00 | 0.04 | 0.00 | 55.79 | 1.27 | 0.00 | 0.00 | 0.04 | 0.00 |
| 55.84 | 1.32 | 0.00 | 0.00 | 0.05 | 0.00 | 55.89 | 1.35 | 0.00 | 0.00 | 0.05 | 0.00 |
| 55.90 | 1.37 | 0.00 | 0.00 | 0.01 | 0.00 | 55.94 | 1.34 | 0.00 | 0.00 | 0.03 | 0.00 |
| 55.99 | 1.30 | 0.00 | 0.00 | 0.05 | 0.00 | 56.03 | 1.24 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.08 | 1.21 | 0.00 | 0.00 | 0.05 | 0.00 | 56.14 | 1.17 | 0.00 | 0.00 | 0.06 | 0.00 |
| 56.22 | 1.13 | 0.00 | 0.00 | 0.08 | 0.00 | 56.28 | 1.10 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.33 | 1.09 | 0.00 | 0.00 | 0.05 | 0.00 | 56.38 | 1.09 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.45 | 1.13 | 0.00 | 0.00 | 0.07 | 0.00 | 56.52 | 1.18 | 0.00 | 0.00 | 0.07 | 0.00 |
| 56.62 | 1.24 | 0.00 | 0.00 | 0.10 | 0.00 | 56.66 | 1.30 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.73 | 1.39 | 0.00 | 0.00 | 0.07 | 0.00 | 56.81 | 1.46 | 0.00 | 0.00 | 0.08 | 0.00 |
| 56.95 | 1.53 | 0.00 | 0.00 | 0.14 | 0.00 | 57.00 | 1.61 | 0.00 | 0.00 | 0.04 | 0.00 |
| 57.09 | 1.63 | 0.00 | 0.00 | 0.10 | 0.00 | 57.19 | 1.62 | 0.00 | 0.00 | 0.10 | 0.00 |
| 57.27 | 1.50 | 0.00 | 0.00 | 0.08 | 0.00 | 57.35 | 1.47 | 0.00 | 0.00 | 0.07 | 0.00 |
| 57.44 | 1.41 | 0.00 | 0.00 | 0.09 | 0.00 | 57.50 | 1.40 | 0.00 | 0.00 | 0.07 | 0.00 |
| 57.52 | 1.52 | 0.00 | 0.00 | 0.02 | 0.00 | 57.58 | 1.78 | 0.00 | 0.00 | 0.05 | 0.00 |
| 57.63 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 57.72 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 57.77 | 1.98 | 0.00 | 0.00 | 0.04 | 0.00 | 57.82 | 1.83 | 0.00 | 0.00 | 0.05 | 0.00 |
| 57.91 | 1.66 | 0.00 | 0.00 | 0.09 | 0.00 | 57.96 | 1.48 | 0.00 | 0.00 | 0.05 | 0.00 |
| 58.02 | 1.61 | 0.00 | 0.00 | 0.05 | 0.00 | 58.09 | 1.69 | 0.00 | 0.00 | 0.08 | 0.00 |
| 58.16 | 1.82 | 0.00 | 0.00 | 0.06 | 0.00 | 58.25 | 1.87 | 0.00 | 0.00 | 0.10 | 0.00 |
| 58.30 | 1.83 | 0.00 | 0.00 | 0.05 | 0.00 | 58.40 | 1.76 | 0.00 | 0.00 | 0.10 | 0.00 |
| 58.50 | 1.74 | 0.00 | 0.00 | 0.10 | 0.00 | 58.56 | 1.71 | 0.00 | 0.00 | 0.06 | 0.00 |
| 58.64 | 1.75 | 0.00 | 0.00 | 0.08 | 0.00 | 58.73 | 1.90 | 0.00 | 0.00 | 0.09 | 0.00 |
| 58.78 | 1.92 | 0.00 | 0.00 | 0.05 | 0.00 | 58.88 | 1.98 | 0.00 | 0.00 | 0.09 | 0.00 |
| 58.97 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 59.07 | 1.97 | 0.00 | 0.00 | 0.10 | 0.00 |
| 59.13 | 1.86 | 0.00 | 0.00 | 0.05 | 0.00 | 59.23 | 1.78 | 0.00 | 0.00 | 0.10 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 59.31 | 1.61 | 0.00 | 0.00 | 0.09 | 0.00 | 59.38 | 1.50 | 0.00 | 0.00 | 0.07 | 0.00 |
| 59.41 | 1.42 | 0.00 | 0.00 | 0.03 | 0.00 | 59.46 | 1.45 | 0.00 | 0.00 | 0.05 | 0.00 |
| 59.51 | 1.45 | 0.00 | 0.00 | 0.05 | 0.00 | 59.57 | 1.51 | 0.00 | 0.00 | 0.05 | 0.00 |
| 59.66 | 1.65 | 0.00 | 0.00 | 0.09 | 0.00 | 59.75 | 1.82 | 0.00 | 0.00 | 0.09 | 0.00 |
| 59.80 | 1.99 | 0.00 | 0.00 | 0.05 | 0.00 | 59.85 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 59.91 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 59.99 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 60.05 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 60.09 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 60.14 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 60.19 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 60.22 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 60.28 | 1.93 | 0.00 | 0.00 | 0.06 | 0.00 |
| 60.33 | 1.69 | 0.00 | 0.00 | 0.05 | 0.00 | 60.38 | 1.41 | 0.00 | 0.00 | 0.05 | 0.00 |
| 60.42 | 1.25 | 0.00 | 0.00 | 0.04 | 0.00 | 60.48 | 1.09 | 0.00 | 0.00 | 0.06 | 0.00 |
| 60.57 | 0.93 | 0.07 | 15.13 | 0.09 | 0.00 | 60.66 | 0.80 | 0.20 | 1.61 | 0.09 | 0.00 |
| 60.68 | 0.73 | 0.27 | 1.06 | 0.03 | 0.00 | 60.69 | 0.70 | 0.30 | 0.91 | 0.01 | 0.00 |
| 60.74 | 0.67 | 0.33 | 0.81 | 0.05 | 0.00 | 60.79 | 0.64 | 0.36 | 0.71 | 0.05 | 0.00 |
| 60.84 | 0.60 | 0.40 | 0.63 | 0.05 | 0.00 | 60.89 | 0.58 | 0.42 | 0.59 | 0.05 | 0.00 |
| 60.98 | 0.56 | 0.44 | 0.57 | 0.09 | 0.01 | 61.03 | 0.58 | 0.42 | 0.60 | 0.04 | 0.00 |
| 61.08 | 0.67 | 0.33 | 0.80 | 0.06 | 0.00 | 61.18 | 0.78 | 0.22 | 1.42 | 0.09 | 0.00 |
| 61.23 | 0.91 | 0.09 | 7.91 | 0.06 | 0.00 | 61.31 | 0.83 | 0.17 | 2.12 | 0.08 | 0.00 |
| 61.42 | 0.83 | 0.17 | 2.14 | 0.10 | 0.00 | 61.47 | 0.92 | 0.08 | 10.64 | 0.05 | 0.00 |
| 61.51 | 1.03 | 0.00 | 0.00 | 0.05 | 0.00 | 61.54 | 1.05 | 0.00 | 0.00 | 0.02 | 0.00 |
| 61.57 | 1.11 | 0.00 | 0.00 | 0.03 | 0.00 | 61.58 | 1.24 | 0.00 | 0.00 | 0.02 | 0.00 |
| 61.61 | 1.10 | 0.00 | 0.00 | 0.03 | 0.00 | 61.63 | 1.02 | 0.00 | 0.00 | 0.01 | 0.00 |
| 61.63 | 0.80 | 0.20 | 1.66 | 0.01 | 0.00 | 61.66 | 0.67 | 0.33 | 0.80 | 0.02 | 0.00 |
| 61.67 | 0.73 | 0.27 | 1.04 | 0.01 | 0.00 | 61.70 | 0.71 | 0.29 | 0.96 | 0.03 | 0.00 |
| 61.71 | 0.72 | 0.28 | 1.00 | 0.01 | 0.00 | 61.76 | 0.75 | 0.25 | 1.18 | 0.04 | 0.00 |
| 61.80 | 0.79 | 0.21 | 1.57 | 0.05 | 0.00 | 61.84 | 0.83 | 0.17 | 2.16 | 0.04 | 0.00 |
| 61.86 | 0.90 | 0.10 | 5.56 | 0.02 | 0.00 | 61.93 | 0.97 | 0.03 | 567.87 | 0.07 | 0.00 |
| 61.98 | 0.93 | 0.07 | 13.38 | 0.05 | 0.00 | 62.04 | 1.16 | 0.00 | 0.00 | 0.06 | 0.00 |
| 62.09 | 1.44 | 0.00 | 0.00 | 0.05 | 0.00 | 62.14 | 1.66 | 0.00 | 0.00 | 0.05 | 0.00 |
| 62.19 | 1.80 | 0.00 | 0.00 | 0.05 | 0.00 | 62.24 | 1.88 | 0.00 | 0.00 | 0.05 | 0.00 |
| 62.26 | 1.97 | 0.00 | 0.00 | 0.02 | 0.00 | 62.29 | 1.97 | 0.00 | 0.00 | 0.03 | 0.00 |
| 62.38 | 1.93 | 0.00 | 0.00 | 0.09 | 0.00 | 62.44 | 1.72 | 0.00 | 0.00 | 0.06 | 0.00 |
| 62.46 | 1.55 | 0.00 | 0.00 | 0.02 | 0.00 | 62.47 | 1.41 | 0.00 | 0.00 | 0.01 | 0.00 |
| 62.51 | 1.44 | 0.00 | 0.00 | 0.04 | 0.00 | 62.56 | 1.52 | 0.00 | 0.00 | 0.05 | 0.00 |
| 62.60 | 1.61 | 0.00 | 0.00 | 0.04 | 0.00 | 62.65 | 1.64 | 0.00 | 0.00 | 0.05 | 0.00 |
| 62.70 | 1.65 | 0.00 | 0.00 | 0.05 | 0.00 | 62.75 | 1.65 | 0.00 | 0.00 | 0.05 | 0.00 |
| 62.80 | 1.74 | 0.00 | 0.00 | 0.05 | 0.00 | 62.85 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 62.89 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 62.97 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 63.04 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 63.09 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 63.13 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 63.19 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 63.23 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 63.28 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 63.32 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 63.38 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 63.44 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 63.52 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 63.57 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 63.66 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 63.73 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 63.76 | 1.53 | 0.00 | 0.00 | 0.03 | 0.00 |
| 63.76 | 1.45 | 0.00 | 0.00 | 0.01 | 0.00 | 63.78 | 1.54 | 0.00 | 0.00 | 0.02 | 0.00 |
| 63.81 | 1.86 | 0.00 | 0.00 | 0.03 | 0.00 | 63.85 | 1.97 | 0.00 | 0.00 | 0.04 | 0.00 |
| 63.86 | 1.94 | 0.00 | 0.00 | 0.01 | 0.00 | 63.91 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 63.94 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 63.95 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 64.00 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 64.02 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 64.05 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 64.09 | 1.99 | 0.00 | 0.00 | 0.04 | 0.00 |
| 64.11 | 1.93 | 0.00 | 0.00 | 0.02 | 0.00 | 64.15 | 1.86 | 0.00 | 0.00 | 0.04 | 0.00 |
| 64.20 | 1.82 | 0.00 | 0.00 | 0.05 | 0.00 | 64.25 | 1.84 | 0.00 | 0.00 | 0.05 | 0.00 |
| 64.29 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 64.34 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 64.43 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 64.48 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 64.53 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 64.58 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 64.63 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 64.68 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 64.73 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 64.77 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 64.82 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 64.87 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 64.89 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 64.93 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 64.94 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 64.98 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 64.99 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 65.03 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 65.08 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 65.13 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 65.17 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 65.22 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 65.23 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 65.28 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 65.32 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 65.37 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 65.42 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 65.47 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 65.48 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 65.49 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 65.52 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 65.57 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 65.62 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 65.67 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 65.69 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 65.72 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 65.77 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 65.82 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 65.86 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 65.86 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 65.91 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 65.96 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |

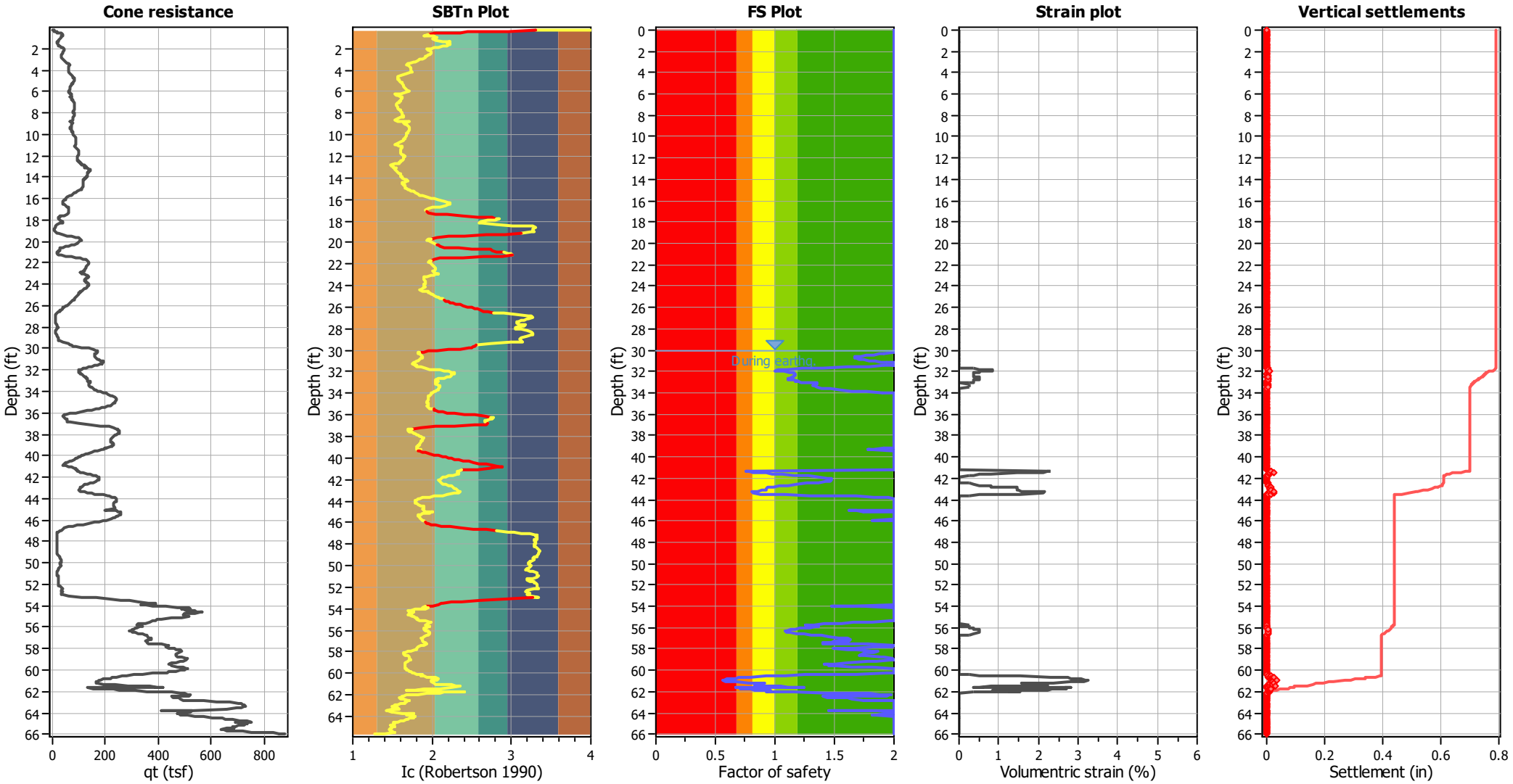
**Overall liquefaction potential: 0.21**

LPI = 0.00 - Liquefaction risk very low
LPI between 0.00 and 5.00 - Liquefaction risk low
LPI between 5.00 and 15.00 - Liquefaction risk high
LPI > 15.00 - Liquefaction risk very high

**Abbreviations**

FS: Calculated factor of safety for test point
$F_L$: 1 - FS
$w_z$: Function value of the extend of soil liquefaction according to depth
$d_z$: Layer thickness (ft)
LPI: Liquefaction potential index value for test point

## Estimation of post-earthquake settlements




**Abbreviations**

| | |
|---|---|
| $q_t$: | Total cone resistance (cone resistance $q_c$ corrected for pore water effects) |
| $I_c$: | Soil Behaviour Type Index |
| FS: | Calculated Factor of Safety against liquefaction |
| Volumentric strain: | Post-liquefaction volumentric strain |

**:: Post-earthquake settlement due to soil liquefaction ::**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 30.05 | 136.43 | 2.00 | 0.00 | 1.00 | 0.00 | 30.14 | 140.95 | 2.00 | 0.00 | 1.00 | 0.00 |
| 30.19 | 142.08 | 2.00 | 0.00 | 1.00 | 0.00 | 30.24 | 142.19 | 2.00 | 0.00 | 1.00 | 0.00 |
| 30.29 | 142.38 | 1.91 | 0.00 | 1.00 | 0.00 | 30.38 | 141.39 | 1.88 | 0.00 | 1.00 | 0.00 |
| 30.43 | 139.76 | 1.83 | 0.00 | 1.00 | 0.00 | 30.48 | 137.67 | 1.77 | 0.00 | 1.00 | 0.00 |
| 30.54 | 135.86 | 1.71 | 0.00 | 1.00 | 0.00 | 30.62 | 134.98 | 1.69 | 0.00 | 1.00 | 0.00 |
| 30.67 | 134.34 | 1.67 | 0.00 | 1.00 | 0.00 | 30.72 | 134.61 | 1.67 | 0.00 | 1.00 | 0.00 |
| 30.76 | 134.89 | 1.68 | 0.00 | 1.00 | 0.00 | 30.86 | 135.92 | 1.71 | 0.00 | 1.00 | 0.00 |
| 30.91 | 137.26 | 1.74 | 0.00 | 1.00 | 0.00 | 30.95 | 138.94 | 1.79 | 0.00 | 1.00 | 0.00 |
| 31.03 | 140.71 | 1.84 | 0.00 | 1.00 | 0.00 | 31.10 | 142.33 | 1.89 | 0.00 | 1.00 | 0.00 |
| 31.15 | 144.07 | 1.94 | 0.00 | 1.00 | 0.00 | 31.20 | 146.05 | 2.00 | 0.00 | 1.00 | 0.00 |
| 31.26 | 147.81 | 2.00 | 0.00 | 1.00 | 0.00 | 31.34 | 147.23 | 2.00 | 0.00 | 1.00 | 0.00 |
| 31.37 | 146.99 | 2.00 | 0.00 | 1.00 | 0.00 | 31.38 | 145.70 | 1.99 | 0.00 | 1.00 | 0.00 |
| 31.43 | 146.17 | 2.00 | 0.00 | 1.00 | 0.00 | 31.47 | 143.44 | 1.91 | 0.00 | 1.00 | 0.00 |
| 31.55 | 139.35 | 1.79 | 0.00 | 1.00 | 0.00 | 31.59 | 132.93 | 1.61 | 0.00 | 1.00 | 0.00 |
| 31.66 | 124.83 | 1.40 | 0.00 | 1.00 | 0.00 | 31.73 | 116.80 | 1.23 | 0.36 | 1.00 | 0.00 |
| 31.78 | 110.36 | 1.10 | 0.52 | 1.00 | 0.00 | 31.84 | 106.34 | 1.03 | 0.83 | 1.00 | 0.01 |
| 31.93 | 104.84 | 1.00 | 0.85 | 1.00 | 0.01 | 31.98 | 106.04 | 1.02 | 0.84 | 1.00 | 0.00 |
| 32.02 | 108.88 | 1.07 | 0.52 | 1.00 | 0.00 | 32.09 | 111.87 | 1.13 | 0.51 | 1.00 | 0.00 |
| 32.16 | 113.86 | 1.16 | 0.37 | 1.00 | 0.00 | 32.22 | 114.52 | 1.17 | 0.37 | 1.00 | 0.00 |
| 32.27 | 114.53 | 1.17 | 0.37 | 1.00 | 0.00 | 32.34 | 114.38 | 1.17 | 0.37 | 1.00 | 0.00 |
| 32.42 | 114.11 | 1.16 | 0.37 | 1.00 | 0.00 | 32.46 | 113.62 | 1.15 | 0.37 | 1.00 | 0.00 |
| 32.54 | 113.25 | 1.14 | 0.51 | 1.00 | 0.01 | 32.60 | 112.00 | 1.12 | 0.51 | 1.00 | 0.00 |
| 32.67 | 111.53 | 1.11 | 0.51 | 1.00 | 0.00 | 32.75 | 111.85 | 1.12 | 0.51 | 1.00 | 0.00 |
| 32.81 | 113.95 | 1.15 | 0.37 | 1.00 | 0.00 | 32.89 | 116.21 | 1.20 | 0.36 | 1.00 | 0.00 |
| 32.94 | 114.84 | 1.17 | 0.37 | 1.00 | 0.00 | 32.95 | 116.07 | 1.19 | 0.36 | 1.00 | 0.00 |
| 33.00 | 117.56 | 1.22 | 0.36 | 1.00 | 0.00 | 33.06 | 122.40 | 1.32 | 0.25 | 1.00 | 0.00 |
| 33.11 | 123.66 | 1.35 | 0.00 | 1.00 | 0.00 | 33.20 | 123.53 | 1.35 | 0.25 | 1.00 | 0.00 |
| 33.25 | 123.06 | 1.34 | 0.25 | 1.00 | 0.00 | 33.34 | 122.48 | 1.32 | 0.25 | 1.00 | 0.00 |
| 33.38 | 122.68 | 1.33 | 0.25 | 1.00 | 0.00 | 33.48 | 123.78 | 1.35 | 0.25 | 1.00 | 0.00 |
| 33.58 | 125.79 | 1.39 | 0.00 | 1.00 | 0.00 | 33.63 | 128.81 | 1.46 | 0.00 | 1.00 | 0.00 |
| 33.73 | 132.15 | 1.55 | 0.00 | 1.00 | 0.00 | 33.82 | 136.16 | 1.65 | 0.00 | 1.00 | 0.00 |
| 33.87 | 140.58 | 1.77 | 0.00 | 1.00 | 0.00 | 33.96 | 145.13 | 1.91 | 0.00 | 1.00 | 0.00 |
| 34.02 | 150.66 | 2.00 | 0.00 | 1.00 | 0.00 | 34.11 | 157.32 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.18 | 164.99 | 2.00 | 0.00 | 1.00 | 0.00 | 34.26 | 172.52 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.35 | 179.50 | 2.00 | 0.00 | 1.00 | 0.00 | 34.44 | 185.53 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.49 | 190.23 | 2.00 | 0.00 | 1.00 | 0.00 | 34.59 | 192.83 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.69 | 194.12 | 2.00 | 0.00 | 1.00 | 0.00 | 34.76 | 194.53 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.83 | 194.02 | 2.00 | 0.00 | 1.00 | 0.00 | 34.93 | 191.54 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.02 | 188.08 | 2.00 | 0.00 | 1.00 | 0.00 | 35.12 | 184.23 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.22 | 181.13 | 2.00 | 0.00 | 1.00 | 0.00 | 35.30 | 177.46 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.38 | 168.21 | 2.00 | 0.00 | 1.00 | 0.00 | 35.43 | 161.35 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.46 | 155.80 | 2.00 | 0.00 | 1.00 | 0.00 | 35.51 | 153.78 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.56 | 146.76 | 2.00 | 0.00 | 1.00 | 0.00 | 35.66 | 138.53 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.70 | 130.03 | 2.00 | 0.00 | 1.00 | 0.00 | 35.80 | 123.66 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.89 | 119.95 | 2.00 | 0.00 | 1.00 | 0.00 | 35.96 | 120.81 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.04 | 120.37 | 2.00 | 0.00 | 1.00 | 0.00 | 36.14 | 117.01 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.19 | 110.69 | 2.00 | 0.00 | 1.00 | 0.00 | 36.28 | 110.05 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.33 | 108.32 | 2.00 | 0.00 | 1.00 | 0.00 | 36.42 | 108.08 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 36.48 | 107.27 | 2.00 | 0.00 | 1.00 | 0.00 | 36.52 | 112.95 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.62 | 119.67 | 2.00 | 0.00 | 1.00 | 0.00 | 36.68 | 126.59 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.77 | 128.11 | 2.00 | 0.00 | 1.00 | 0.00 | 36.86 | 126.60 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.90 | 115.19 | 2.00 | 0.00 | 1.00 | 0.00 | 37.00 | 103.13 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.10 | 112.56 | 2.00 | 0.00 | 1.00 | 0.00 | 37.20 | 136.84 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.29 | 147.30 | 2.00 | 0.00 | 1.00 | 0.00 | 37.39 | 149.01 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.49 | 155.00 | 2.00 | 0.00 | 1.00 | 0.00 | 37.53 | 160.20 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.58 | 165.44 | 2.00 | 0.00 | 1.00 | 0.00 | 37.62 | 169.66 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.69 | 175.10 | 2.00 | 0.00 | 1.00 | 0.00 | 37.77 | 179.78 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.82 | 183.39 | 2.00 | 0.00 | 1.00 | 0.00 | 37.87 | 184.85 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.91 | 184.82 | 2.00 | 0.00 | 1.00 | 0.00 | 37.97 | 183.06 | 2.00 | 0.00 | 1.00 | 0.00 |
| 38.06 | 179.59 | 2.00 | 0.00 | 1.00 | 0.00 | 38.10 | 175.74 | 2.00 | 0.00 | 1.00 | 0.00 |
| 38.17 | 172.34 | 2.00 | 0.00 | 1.00 | 0.00 | 38.25 | 169.66 | 2.00 | 0.00 | 1.00 | 0.00 |
| 38.35 | 167.11 | 2.00 | 0.00 | 1.00 | 0.00 | 38.40 | 164.83 | 2.00 | 0.00 | 1.00 | 0.00 |
| 38.46 | 163.21 | 2.00 | 0.00 | 1.00 | 0.00 | 38.54 | 162.26 | 2.00 | 0.00 | 1.00 | 0.00 |
| 38.60 | 161.69 | 2.00 | 0.00 | 1.00 | 0.00 | 38.69 | 161.77 | 2.00 | 0.00 | 1.00 | 0.00 |
| 38.74 | 162.53 | 2.00 | 0.00 | 1.00 | 0.00 | 38.83 | 163.73 | 2.00 | 0.00 | 1.00 | 0.00 |
| 38.88 | 163.54 | 2.00 | 0.00 | 1.00 | 0.00 | 38.97 | 162.47 | 2.00 | 0.00 | 1.00 | 0.00 |
| 39.02 | 160.45 | 2.00 | 0.00 | 1.00 | 0.00 | 39.11 | 158.54 | 2.00 | 0.00 | 1.00 | 0.00 |
| 39.16 | 154.99 | 2.00 | 0.00 | 1.00 | 0.00 | 39.23 | 148.10 | 1.92 | 0.00 | 1.00 | 0.00 |
| 39.24 | 145.08 | 1.83 | 0.00 | 1.00 | 0.00 | 39.28 | 143.39 | 1.78 | 0.00 | 1.00 | 0.00 |
| 39.32 | 144.08 | 1.80 | 0.00 | 1.00 | 0.00 | 39.39 | 139.67 | 2.00 | 0.00 | 1.00 | 0.00 |
| 39.47 | 133.48 | 2.00 | 0.00 | 1.00 | 0.00 | 39.54 | 125.99 | 2.00 | 0.00 | 1.00 | 0.00 |
| 39.62 | 117.99 | 2.00 | 0.00 | 1.00 | 0.00 | 39.71 | 110.70 | 2.00 | 0.00 | 1.00 | 0.00 |
| 39.76 | 105.08 | 2.00 | 0.00 | 1.00 | 0.00 | 39.85 | 101.34 | 2.00 | 0.00 | 1.00 | 0.00 |
| 39.90 | 98.95 | 2.00 | 0.00 | 1.00 | 0.00 | 40.00 | 97.53 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.06 | 96.96 | 2.00 | 0.00 | 1.00 | 0.00 | 40.15 | 97.18 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.21 | 98.86 | 2.00 | 0.00 | 1.00 | 0.00 | 40.29 | 102.19 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.35 | 108.27 | 2.00 | 0.00 | 1.00 | 0.00 | 40.43 | 111.81 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.52 | 114.58 | 2.00 | 0.00 | 1.00 | 0.00 | 40.58 | 115.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.67 | 116.83 | 2.00 | 0.00 | 1.00 | 0.00 | 40.77 | 117.65 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.84 | 117.99 | 2.00 | 0.00 | 1.00 | 0.00 | 40.89 | 116.25 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.94 | 111.31 | 2.00 | 0.00 | 1.00 | 0.00 | 41.03 | 103.18 | 2.00 | 0.00 | 1.00 | 0.00 |
| 41.08 | 96.47 | 2.00 | 0.00 | 1.00 | 0.00 | 41.14 | 92.51 | 2.00 | 0.00 | 1.00 | 0.00 |
| 41.22 | 90.97 | 2.00 | 0.00 | 1.00 | 0.00 | 41.28 | 91.29 | 0.75 | 2.32 | 1.00 | 0.02 |
| 41.33 | 93.52 | 0.78 | 2.24 | 1.00 | 0.01 | 41.42 | 97.02 | 0.82 | 2.12 | 1.00 | 0.02 |
| 41.47 | 100.81 | 0.87 | 1.55 | 1.00 | 0.01 | 41.52 | 104.48 | 0.93 | 1.47 | 1.00 | 0.01 |
| 41.62 | 107.92 | 0.98 | 0.82 | 1.00 | 0.01 | 41.67 | 112.91 | 1.07 | 0.51 | 1.00 | 0.00 |
| 41.76 | 118.23 | 1.16 | 0.36 | 1.00 | 0.00 | 41.82 | 123.75 | 1.28 | 0.25 | 1.00 | 0.00 |
| 41.90 | 128.02 | 1.37 | 0.00 | 1.00 | 0.00 | 41.99 | 131.05 | 1.44 | 0.00 | 1.00 | 0.00 |
| 42.05 | 132.58 | 1.48 | 0.00 | 1.00 | 0.00 | 42.15 | 132.77 | 1.48 | 0.00 | 1.00 | 0.00 |
| 42.23 | 132.06 | 1.46 | 0.00 | 1.00 | 0.00 | 42.30 | 130.51 | 1.43 | 0.00 | 1.00 | 0.00 |
| 42.38 | 127.88 | 1.36 | 0.00 | 1.00 | 0.00 | 42.48 | 123.60 | 1.27 | 0.25 | 1.00 | 0.00 |
| 42.57 | 119.15 | 1.18 | 0.36 | 1.00 | 0.00 | 42.64 | 115.28 | 1.11 | 0.50 | 1.00 | 0.00 |
| 42.72 | 111.72 | 1.04 | 0.80 | 1.00 | 0.01 | 42.82 | 108.24 | 0.98 | 0.82 | 1.00 | 0.01 |
| 42.90 | 105.42 | 0.94 | 1.45 | 1.00 | 0.01 | 42.97 | 104.32 | 0.92 | 1.47 | 1.00 | 0.01 |
| 43.06 | 104.69 | 0.93 | 1.47 | 1.00 | 0.02 | 43.15 | 102.43 | 0.89 | 1.51 | 1.00 | 0.02 |
| 43.20 | 99.54 | 0.85 | 1.58 | 1.00 | 0.01 | 43.30 | 95.67 | 0.80 | 2.17 | 1.00 | 0.02 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 43.40 | 97.12 | 0.82 | 2.12 | 1.00 | 0.02 | 43.48 | 100.97 | 0.87 | 1.55 | 1.00 | 0.01 |
| 43.51 | 103.89 | 0.92 | 1.48 | 1.00 | 0.01 | 43.52 | 107.23 | 0.97 | 0.83 | 1.00 | 0.00 |
| 43.56 | 114.20 | 1.09 | 0.51 | 1.00 | 0.00 | 43.61 | 124.81 | 1.30 | 0.25 | 1.00 | 0.00 |
| 43.67 | 133.29 | 1.49 | 0.00 | 1.00 | 0.00 | 43.72 | 140.56 | 1.68 | 0.00 | 1.00 | 0.00 |
| 43.80 | 145.95 | 1.83 | 0.00 | 1.00 | 0.00 | 43.85 | 149.84 | 1.95 | 0.00 | 1.00 | 0.00 |
| 43.90 | 152.56 | 2.00 | 0.00 | 1.00 | 0.00 | 43.94 | 154.37 | 2.00 | 0.00 | 1.00 | 0.00 |
| 43.99 | 155.28 | 2.00 | 0.00 | 1.00 | 0.00 | 44.08 | 155.65 | 2.00 | 0.00 | 1.00 | 0.00 |
| 44.14 | 156.49 | 2.00 | 0.00 | 1.00 | 0.00 | 44.22 | 157.19 | 2.00 | 0.00 | 1.00 | 0.00 |
| 44.28 | 157.37 | 2.00 | 0.00 | 1.00 | 0.00 | 44.33 | 156.78 | 2.00 | 0.00 | 1.00 | 0.00 |
| 44.40 | 155.80 | 2.00 | 0.00 | 1.00 | 0.00 | 44.48 | 155.90 | 2.00 | 0.00 | 1.00 | 0.00 |
| 44.52 | 155.24 | 2.00 | 0.00 | 1.00 | 0.00 | 44.61 | 155.88 | 2.00 | 0.00 | 1.00 | 0.00 |
| 44.72 | 156.70 | 2.00 | 0.00 | 1.00 | 0.00 | 44.77 | 159.04 | 2.00 | 0.00 | 1.00 | 0.00 |
| 44.91 | 160.27 | 2.00 | 0.00 | 1.00 | 0.00 | 44.95 | 156.88 | 2.00 | 0.00 | 1.00 | 0.00 |
| 45.02 | 154.33 | 2.00 | 0.00 | 1.00 | 0.00 | 45.04 | 138.44 | 1.62 | 0.00 | 1.00 | 0.00 |
| 45.06 | 140.63 | 1.68 | 0.00 | 1.00 | 0.00 | 45.11 | 143.03 | 1.75 | 0.00 | 1.00 | 0.00 |
| 45.15 | 160.49 | 2.00 | 0.00 | 1.00 | 0.00 | 45.21 | 163.81 | 2.00 | 0.00 | 1.00 | 0.00 |
| 45.25 | 166.43 | 2.00 | 0.00 | 1.00 | 0.00 | 45.30 | 168.34 | 2.00 | 0.00 | 1.00 | 0.00 |
| 45.35 | 169.35 | 2.00 | 0.00 | 1.00 | 0.00 | 45.41 | 169.64 | 2.00 | 0.00 | 1.00 | 0.00 |
| 45.49 | 168.87 | 2.00 | 0.00 | 1.00 | 0.00 | 45.55 | 167.24 | 2.00 | 0.00 | 1.00 | 0.00 |
| 45.63 | 164.52 | 2.00 | 0.00 | 1.00 | 0.00 | 45.69 | 161.09 | 2.00 | 0.00 | 1.00 | 0.00 |
| 45.78 | 156.88 | 2.00 | 0.00 | 1.00 | 0.00 | 45.84 | 151.68 | 2.00 | 0.00 | 1.00 | 0.00 |
| 45.93 | 145.18 | 1.81 | 0.00 | 1.00 | 0.00 | 46.02 | 137.24 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.08 | 128.00 | 2.00 | 0.00 | 1.00 | 0.00 | 46.16 | 118.20 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.24 | 108.31 | 2.00 | 0.00 | 1.00 | 0.00 | 46.31 | 99.54 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.41 | 94.32 | 2.00 | 0.00 | 1.00 | 0.00 | 46.48 | 95.41 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.56 | 101.49 | 2.00 | 0.00 | 1.00 | 0.00 | 46.65 | 106.39 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.75 | 104.92 | 2.00 | 0.00 | 1.00 | 0.00 | 46.84 | 96.75 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.94 | 92.20 | 2.00 | 0.00 | 1.00 | 0.00 | 47.02 | 89.65 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.08 | 87.68 | 2.00 | 0.00 | 1.00 | 0.00 | 47.12 | 86.24 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.16 | 84.67 | 2.00 | 0.00 | 1.00 | 0.00 | 47.21 | 82.35 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.27 | 79.44 | 2.00 | 0.00 | 1.00 | 0.00 | 47.35 | 76.72 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.40 | 72.71 | 2.00 | 0.00 | 1.00 | 0.00 | 47.50 | 68.97 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.55 | 65.28 | 2.00 | 0.00 | 1.00 | 0.00 | 47.61 | 63.67 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.69 | 62.57 | 2.00 | 0.00 | 1.00 | 0.00 | 47.76 | 61.71 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.83 | 60.22 | 2.00 | 0.00 | 1.00 | 0.00 | 47.93 | 58.40 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.02 | 57.34 | 2.00 | 0.00 | 1.00 | 0.00 | 48.09 | 56.35 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.18 | 57.05 | 2.00 | 0.00 | 1.00 | 0.00 | 48.27 | 58.44 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.37 | 61.09 | 2.00 | 0.00 | 1.00 | 0.00 | 48.46 | 62.98 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.52 | 64.25 | 2.00 | 0.00 | 1.00 | 0.00 | 48.60 | 65.23 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.70 | 65.99 | 2.00 | 0.00 | 1.00 | 0.00 | 48.79 | 66.70 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.85 | 68.42 | 2.00 | 0.00 | 1.00 | 0.00 | 48.94 | 71.44 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.04 | 73.34 | 2.00 | 0.00 | 1.00 | 0.00 | 49.13 | 82.09 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.23 | 92.00 | 2.00 | 0.00 | 1.00 | 0.00 | 49.33 | 102.80 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.38 | 109.60 | 2.00 | 0.00 | 1.00 | 0.00 | 49.42 | 114.80 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.48 | 118.93 | 2.00 | 0.00 | 1.00 | 0.00 | 49.53 | 121.43 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.58 | 123.62 | 2.00 | 0.00 | 1.00 | 0.00 | 49.63 | 125.52 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.72 | 126.23 | 2.00 | 0.00 | 1.00 | 0.00 | 49.77 | 125.98 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.83 | 125.40 | 2.00 | 0.00 | 1.00 | 0.00 | 49.92 | 124.67 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 49.97 | 123.55 | 2.00 | 0.00 | 1.00 | 0.00 | 50.04 | 122.65 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.11 | 122.33 | 2.00 | 0.00 | 1.00 | 0.00 | 50.20 | 120.55 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.27 | 116.01 | 2.00 | 0.00 | 1.00 | 0.00 | 50.34 | 107.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.45 | 99.22 | 2.00 | 0.00 | 1.00 | 0.00 | 50.54 | 92.39 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.59 | 87.71 | 2.00 | 0.00 | 1.00 | 0.00 | 50.68 | 83.78 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.79 | 80.17 | 2.00 | 0.00 | 1.00 | 0.00 | 50.88 | 78.18 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.98 | 77.89 | 2.00 | 0.00 | 1.00 | 0.00 | 51.07 | 76.09 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.17 | 71.67 | 2.00 | 0.00 | 1.00 | 0.00 | 51.24 | 68.77 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.33 | 70.43 | 2.00 | 0.00 | 1.00 | 0.00 | 51.46 | 74.75 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.46 | 78.20 | 2.00 | 0.00 | 1.00 | 0.00 | 51.51 | 79.60 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.56 | 82.02 | 2.00 | 0.00 | 1.00 | 0.00 | 51.65 | 84.26 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.71 | 86.89 | 2.00 | 0.00 | 1.00 | 0.00 | 51.79 | 88.80 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.85 | 92.19 | 2.00 | 0.00 | 1.00 | 0.00 | 51.94 | 96.33 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.99 | 102.62 | 2.00 | 0.00 | 1.00 | 0.00 | 52.09 | 109.52 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.19 | 116.81 | 2.00 | 0.00 | 1.00 | 0.00 | 52.28 | 122.63 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.35 | 128.41 | 2.00 | 0.00 | 1.00 | 0.00 | 52.43 | 132.82 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.52 | 136.28 | 2.00 | 0.00 | 1.00 | 0.00 | 52.62 | 135.93 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.72 | 133.92 | 2.00 | 0.00 | 1.00 | 0.00 | 52.81 | 135.53 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.91 | 146.31 | 2.00 | 0.00 | 1.00 | 0.00 | 53.00 | 154.70 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.10 | 148.13 | 2.00 | 0.00 | 1.00 | 0.00 | 53.20 | 129.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.29 | 114.61 | 2.00 | 0.00 | 1.00 | 0.00 | 53.38 | 114.09 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.46 | 119.81 | 2.00 | 0.00 | 1.00 | 0.00 | 53.53 | 130.93 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.63 | 139.93 | 2.00 | 0.00 | 1.00 | 0.00 | 53.73 | 146.92 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.82 | 150.03 | 2.00 | 0.00 | 1.00 | 0.00 | 53.92 | 146.54 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.94 | 138.23 | 1.66 | 0.00 | 1.00 | 0.00 | 53.96 | 131.20 | 1.48 | 0.00 | 1.00 | 0.00 |
| 53.97 | 134.16 | 1.55 | 0.00 | 1.00 | 0.00 | 54.05 | 141.00 | 1.73 | 0.00 | 1.00 | 0.00 |
| 54.08 | 150.15 | 2.00 | 0.00 | 1.00 | 0.00 | 54.13 | 154.41 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.19 | 159.56 | 2.00 | 0.00 | 1.00 | 0.00 | 54.25 | 162.94 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.28 | 166.66 | 2.00 | 0.00 | 1.00 | 0.00 | 54.29 | 164.40 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.34 | 164.35 | 2.00 | 0.00 | 1.00 | 0.00 | 54.35 | 164.72 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.40 | 165.62 | 2.00 | 0.00 | 1.00 | 0.00 | 54.44 | 166.45 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.49 | 165.88 | 2.00 | 0.00 | 1.00 | 0.00 | 54.53 | 167.39 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.57 | 171.02 | 2.00 | 0.00 | 1.00 | 0.00 | 54.58 | 173.92 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.63 | 173.90 | 2.00 | 0.00 | 1.00 | 0.00 | 54.68 | 176.93 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.73 | 175.12 | 2.00 | 0.00 | 1.00 | 0.00 | 54.78 | 173.29 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.83 | 172.82 | 2.00 | 0.00 | 1.00 | 0.00 | 54.88 | 175.08 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.92 | 178.37 | 2.00 | 0.00 | 1.00 | 0.00 | 54.97 | 180.73 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.02 | 181.62 | 2.00 | 0.00 | 1.00 | 0.00 | 55.12 | 178.01 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.17 | 170.63 | 2.00 | 0.00 | 1.00 | 0.00 | 55.25 | 160.49 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.31 | 154.46 | 2.00 | 0.00 | 1.00 | 0.00 | 55.36 | 148.87 | 1.98 | 0.00 | 1.00 | 0.00 |
| 55.45 | 143.68 | 1.82 | 0.00 | 1.00 | 0.00 | 55.50 | 137.89 | 1.66 | 0.00 | 1.00 | 0.00 |
| 55.60 | 133.93 | 1.56 | 0.00 | 1.00 | 0.00 | 55.65 | 128.15 | 1.41 | 0.00 | 1.00 | 0.00 |
| 55.71 | 124.39 | 1.33 | 0.25 | 1.00 | 0.00 | 55.75 | 121.19 | 1.26 | 0.25 | 1.00 | 0.00 |
| 55.79 | 121.90 | 1.27 | 0.25 | 1.00 | 0.00 | 55.84 | 123.76 | 1.32 | 0.25 | 1.00 | 0.00 |
| 55.89 | 125.39 | 1.35 | 0.00 | 1.00 | 0.00 | 55.90 | 126.17 | 1.37 | 0.00 | 1.00 | 0.00 |
| 55.94 | 124.98 | 1.34 | 0.25 | 1.00 | 0.00 | 55.99 | 122.89 | 1.30 | 0.25 | 1.00 | 0.00 |
| 56.03 | 120.41 | 1.24 | 0.36 | 1.00 | 0.00 | 56.08 | 118.54 | 1.21 | 0.36 | 1.00 | 0.00 |
| 56.14 | 116.74 | 1.17 | 0.36 | 1.00 | 0.00 | 56.22 | 114.65 | 1.13 | 0.50 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 56.28 | 112.90 | 1.10 | 0.51 | 1.00 | 0.00 | 56.33 | 112.38 | 1.09 | 0.51 | 1.00 | 0.00 |
| 56.38 | 112.46 | 1.09 | 0.51 | 1.00 | 0.00 | 56.45 | 114.23 | 1.13 | 0.51 | 1.00 | 0.00 |
| 56.52 | 117.01 | 1.18 | 0.36 | 1.00 | 0.00 | 56.62 | 120.21 | 1.24 | 0.36 | 1.00 | 0.00 |
| 56.66 | 123.02 | 1.30 | 0.25 | 1.00 | 0.00 | 56.73 | 126.65 | 1.39 | 0.00 | 1.00 | 0.00 |
| 56.81 | 129.59 | 1.46 | 0.00 | 1.00 | 0.00 | 56.95 | 132.64 | 1.53 | 0.00 | 1.00 | 0.00 |
| 57.00 | 135.80 | 1.61 | 0.00 | 1.00 | 0.00 | 57.09 | 136.52 | 1.63 | 0.00 | 1.00 | 0.00 |
| 57.19 | 135.85 | 1.62 | 0.00 | 1.00 | 0.00 | 57.27 | 131.44 | 1.50 | 0.00 | 1.00 | 0.00 |
| 57.35 | 130.16 | 1.47 | 0.00 | 1.00 | 0.00 | 57.44 | 127.36 | 1.41 | 0.00 | 1.00 | 0.00 |
| 57.50 | 127.07 | 1.40 | 0.00 | 1.00 | 0.00 | 57.52 | 131.85 | 1.52 | 0.00 | 1.00 | 0.00 |
| 57.58 | 141.73 | 1.78 | 0.00 | 1.00 | 0.00 | 57.63 | 149.17 | 2.00 | 0.00 | 1.00 | 0.00 |
| 57.72 | 151.31 | 2.00 | 0.00 | 1.00 | 0.00 | 57.77 | 148.26 | 1.98 | 0.00 | 1.00 | 0.00 |
| 57.82 | 143.29 | 1.83 | 0.00 | 1.00 | 0.00 | 57.91 | 137.09 | 1.66 | 0.00 | 1.00 | 0.00 |
| 57.96 | 130.46 | 1.48 | 0.00 | 1.00 | 0.00 | 58.02 | 135.16 | 1.61 | 0.00 | 1.00 | 0.00 |
| 58.09 | 138.12 | 1.69 | 0.00 | 1.00 | 0.00 | 58.16 | 142.65 | 1.82 | 0.00 | 1.00 | 0.00 |
| 58.25 | 144.36 | 1.87 | 0.00 | 1.00 | 0.00 | 58.30 | 143.26 | 1.83 | 0.00 | 1.00 | 0.00 |
| 58.40 | 140.74 | 1.76 | 0.00 | 1.00 | 0.00 | 58.50 | 139.77 | 1.74 | 0.00 | 1.00 | 0.00 |
| 58.56 | 138.70 | 1.71 | 0.00 | 1.00 | 0.00 | 58.64 | 140.28 | 1.75 | 0.00 | 1.00 | 0.00 |
| 58.73 | 145.16 | 1.90 | 0.00 | 1.00 | 0.00 | 58.78 | 145.87 | 1.92 | 0.00 | 1.00 | 0.00 |
| 58.88 | 147.98 | 1.98 | 0.00 | 1.00 | 0.00 | 58.97 | 149.10 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.07 | 147.53 | 1.97 | 0.00 | 1.00 | 0.00 | 59.13 | 143.73 | 1.86 | 0.00 | 1.00 | 0.00 |
| 59.23 | 140.99 | 1.78 | 0.00 | 1.00 | 0.00 | 59.31 | 134.94 | 1.61 | 0.00 | 1.00 | 0.00 |
| 59.38 | 130.71 | 1.50 | 0.00 | 1.00 | 0.00 | 59.41 | 127.40 | 1.42 | 0.00 | 1.00 | 0.00 |
| 59.46 | 128.62 | 1.45 | 0.00 | 1.00 | 0.00 | 59.51 | 128.55 | 1.45 | 0.00 | 1.00 | 0.00 |
| 59.57 | 130.91 | 1.51 | 0.00 | 1.00 | 0.00 | 59.66 | 136.37 | 1.65 | 0.00 | 1.00 | 0.00 |
| 59.75 | 142.44 | 1.82 | 0.00 | 1.00 | 0.00 | 59.80 | 147.84 | 1.99 | 0.00 | 1.00 | 0.00 |
| 59.85 | 156.99 | 2.00 | 0.00 | 1.00 | 0.00 | 59.91 | 158.02 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.99 | 159.53 | 2.00 | 0.00 | 1.00 | 0.00 | 60.05 | 161.59 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.09 | 160.52 | 2.00 | 0.00 | 1.00 | 0.00 | 60.14 | 156.08 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.19 | 153.23 | 2.00 | 0.00 | 1.00 | 0.00 | 60.22 | 151.55 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.28 | 145.94 | 1.93 | 0.00 | 1.00 | 0.00 | 60.33 | 137.48 | 1.69 | 0.00 | 1.00 | 0.00 |
| 60.38 | 126.83 | 1.41 | 0.00 | 1.00 | 0.00 | 60.42 | 119.65 | 1.25 | 0.25 | 1.00 | 0.00 |
| 60.48 | 111.02 | 1.09 | 0.52 | 1.00 | 0.00 | 60.57 | 101.50 | 0.93 | 1.53 | 1.00 | 0.02 |
| 60.66 | 91.67 | 0.80 | 2.31 | 1.00 | 0.02 | 60.68 | 85.85 | 0.73 | 2.65 | 1.00 | 0.01 |
| 60.69 | 82.84 | 0.70 | 2.73 | 1.00 | 0.00 | 60.74 | 80.07 | 0.67 | 2.80 | 1.00 | 0.02 |
| 60.79 | 76.18 | 0.64 | 2.92 | 1.00 | 0.02 | 60.84 | 71.82 | 0.60 | 3.07 | 1.00 | 0.02 |
| 60.89 | 68.64 | 0.58 | 3.18 | 1.00 | 0.02 | 60.98 | 66.57 | 0.56 | 3.26 | 1.00 | 0.04 |
| 61.03 | 69.19 | 0.58 | 3.16 | 1.00 | 0.02 | 61.08 | 79.69 | 0.67 | 2.81 | 1.00 | 0.02 |
| 61.18 | 90.12 | 0.78 | 2.37 | 1.00 | 0.03 | 61.23 | 100.04 | 0.91 | 1.57 | 1.00 | 0.01 |
| 61.31 | 94.03 | 0.83 | 2.22 | 1.00 | 0.02 | 61.42 | 94.11 | 0.83 | 2.22 | 1.00 | 0.03 |
| 61.47 | 100.64 | 0.92 | 1.55 | 1.00 | 0.01 | 61.51 | 107.25 | 1.03 | 0.83 | 1.00 | 0.00 |
| 61.54 | 108.54 | 1.05 | 0.82 | 1.00 | 0.00 | 61.57 | 112.23 | 1.11 | 0.51 | 1.00 | 0.00 |
| 61.58 | 118.74 | 1.24 | 0.36 | 1.00 | 0.00 | 61.61 | 111.49 | 1.10 | 0.51 | 1.00 | 0.00 |
| 61.63 | 107.07 | 1.02 | 0.83 | 1.00 | 0.00 | 61.63 | 91.77 | 0.80 | 2.30 | 1.00 | 0.00 |
| 61.66 | 79.27 | 0.67 | 2.83 | 1.00 | 0.01 | 61.67 | 85.35 | 0.73 | 2.66 | 1.00 | 0.00 |
| 61.70 | 83.80 | 0.71 | 2.70 | 1.00 | 0.01 | 61.71 | 84.55 | 0.72 | 2.68 | 1.00 | 0.00 |
| 61.76 | 87.45 | 0.75 | 2.61 | 1.00 | 0.01 | 61.80 | 91.10 | 0.79 | 2.33 | 1.00 | 0.01 |
| 61.84 | 94.04 | 0.83 | 2.22 | 1.00 | 0.01 | 61.86 | 98.87 | 0.90 | 1.59 | 1.00 | 0.00 |
| 61.93 | 103.69 | 0.97 | 0.85 | 1.00 | 0.01 | 61.98 | 100.92 | 0.93 | 1.55 | 1.00 | 0.01 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 62.04 | 114.48 | 1.16 | 0.37 | 1.00 | 0.00 | 62.09 | 127.59 | 1.44 | 0.00 | 1.00 | 0.00 |
| 62.14 | 136.10 | 1.66 | 0.00 | 1.00 | 0.00 | 62.19 | 140.93 | 1.80 | 0.00 | 1.00 | 0.00 |
| 62.24 | 143.65 | 1.88 | 0.00 | 1.00 | 0.00 | 62.26 | 146.58 | 1.97 | 0.00 | 1.00 | 0.00 |
| 62.29 | 146.46 | 1.97 | 0.00 | 1.00 | 0.00 | 62.38 | 145.37 | 1.93 | 0.00 | 1.00 | 0.00 |
| 62.44 | 138.07 | 1.72 | 0.00 | 1.00 | 0.00 | 62.46 | 132.02 | 1.55 | 0.00 | 1.00 | 0.00 |
| 62.47 | 126.07 | 1.41 | 0.00 | 1.00 | 0.00 | 62.51 | 127.59 | 1.44 | 0.00 | 1.00 | 0.00 |
| 62.56 | 130.45 | 1.52 | 0.00 | 1.00 | 0.00 | 62.60 | 134.26 | 1.61 | 0.00 | 1.00 | 0.00 |
| 62.65 | 135.35 | 1.64 | 0.00 | 1.00 | 0.00 | 62.70 | 135.46 | 1.65 | 0.00 | 1.00 | 0.00 |
| 62.75 | 135.59 | 1.65 | 0.00 | 1.00 | 0.00 | 62.80 | 138.85 | 1.74 | 0.00 | 1.00 | 0.00 |
| 62.85 | 147.40 | 2.00 | 0.00 | 1.00 | 0.00 | 62.89 | 159.73 | 2.00 | 0.00 | 1.00 | 0.00 |
| 62.97 | 173.86 | 2.00 | 0.00 | 1.00 | 0.00 | 63.04 | 187.32 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.09 | 197.18 | 2.00 | 0.00 | 1.00 | 0.00 | 63.13 | 200.57 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.19 | 200.74 | 2.00 | 0.00 | 1.00 | 0.00 | 63.23 | 201.69 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.28 | 203.42 | 2.00 | 0.00 | 1.00 | 0.00 | 63.32 | 204.02 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.38 | 202.89 | 2.00 | 0.00 | 1.00 | 0.00 | 63.44 | 203.06 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.52 | 199.75 | 2.00 | 0.00 | 1.00 | 0.00 | 63.57 | 194.57 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.66 | 183.79 | 2.00 | 0.00 | 1.00 | 0.00 | 63.73 | 148.76 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.76 | 130.54 | 1.53 | 0.00 | 1.00 | 0.00 | 63.76 | 127.66 | 1.45 | 0.00 | 1.00 | 0.00 |
| 63.78 | 131.02 | 1.54 | 0.00 | 1.00 | 0.00 | 63.81 | 142.46 | 1.86 | 0.00 | 1.00 | 0.00 |
| 63.85 | 146.19 | 1.97 | 0.00 | 1.00 | 0.00 | 63.86 | 145.10 | 1.94 | 0.00 | 1.00 | 0.00 |
| 63.91 | 148.35 | 2.00 | 0.00 | 1.00 | 0.00 | 63.94 | 150.35 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.95 | 151.38 | 2.00 | 0.00 | 1.00 | 0.00 | 64.00 | 150.67 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.02 | 149.37 | 2.00 | 0.00 | 1.00 | 0.00 | 64.05 | 148.02 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.09 | 146.64 | 1.99 | 0.00 | 1.00 | 0.00 | 64.11 | 144.77 | 1.93 | 0.00 | 1.00 | 0.00 |
| 64.15 | 142.44 | 1.86 | 0.00 | 1.00 | 0.00 | 64.20 | 141.24 | 1.82 | 0.00 | 1.00 | 0.00 |
| 64.25 | 141.74 | 1.84 | 0.00 | 1.00 | 0.00 | 64.29 | 148.11 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.34 | 157.68 | 2.00 | 0.00 | 1.00 | 0.00 | 64.43 | 167.40 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.48 | 174.30 | 2.00 | 0.00 | 1.00 | 0.00 | 64.53 | 177.47 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.58 | 180.82 | 2.00 | 0.00 | 1.00 | 0.00 | 64.63 | 187.83 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.68 | 195.77 | 2.00 | 0.00 | 1.00 | 0.00 | 64.73 | 198.20 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.77 | 202.79 | 2.00 | 0.00 | 1.00 | 0.00 | 64.82 | 207.01 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.87 | 201.76 | 2.00 | 0.00 | 1.00 | 0.00 | 64.89 | 196.56 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.93 | 189.73 | 2.00 | 0.00 | 1.00 | 0.00 | 64.94 | 196.96 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.98 | 199.62 | 2.00 | 0.00 | 1.00 | 0.00 | 64.99 | 201.90 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.03 | 201.35 | 2.00 | 0.00 | 1.00 | 0.00 | 65.08 | 199.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.13 | 196.50 | 2.00 | 0.00 | 1.00 | 0.00 | 65.17 | 193.13 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.22 | 189.08 | 2.00 | 0.00 | 1.00 | 0.00 | 65.23 | 186.93 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.28 | 186.22 | 2.00 | 0.00 | 1.00 | 0.00 | 65.32 | 186.24 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.37 | 186.30 | 2.00 | 0.00 | 1.00 | 0.00 | 65.42 | 187.42 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.47 | 183.76 | 2.00 | 0.00 | 1.00 | 0.00 | 65.48 | 179.77 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.49 | 174.70 | 2.00 | 0.00 | 1.00 | 0.00 | 65.52 | 174.01 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.57 | 176.43 | 2.00 | 0.00 | 1.00 | 0.00 | 65.62 | 180.61 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.67 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 65.69 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.72 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 65.77 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.82 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 65.86 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.86 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 65.91 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.96 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | | | | | | |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|

**Total estimated settlement: 0.79**

**Abbreviations**

| | |
|---|---|
| $Q_{tn,cs}$: | Equivalent clean sand normalized cone resistance |
| FS: | Factor of safety against liquefaction |
| $e_v$ (%): | Post-liquefaction volumentric strain |
| DF: | $e_v$ depth weighting factor |
| Settlement: | Calculated settlement |

**:: Strength loss calculation (Robertson (2009) ::**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 0.01 | -0.03 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.04 | -0.03 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.08 | -0.07 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.10 | -0.03 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.13 | -0.03 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.18 | 0.00 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.22 | 0.00 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.27 | 0.81 | 1.28 | 50.14 | 63.98 | 4.01 | 4.89 | 3.60 |
| 0.33 | 2.77 | 4.42 | 15.47 | 68.30 | 3.31 | 5.08 | 10.70 |
| 0.36 | 5.16 | 8.26 | 7.99 | 66.07 | 2.95 | 0.18 | 0.67 |
| 0.37 | 7.12 | 11.41 | 5.40 | 61.61 | 2.76 | 0.13 | 0.66 |
| 0.38 | 8.20 | 13.14 | 4.58 | 60.15 | 2.69 | 0.11 | 0.66 |
| 0.42 | 9.38 | 15.03 | 3.98 | 59.88 | 2.63 | 0.11 | 0.66 |
| 0.44 | 10.59 | 16.98 | 3.58 | 60.79 | 2.58 | 0.12 | 0.66 |
| 0.47 | 12.18 | 19.53 | 3.09 | 60.26 | 2.52 | 0.12 | 0.66 |
| 0.47 | 14.24 | 22.83 | 2.61 | 59.51 | 2.44 | 0.11 | 0.66 |
| 0.52 | 17.00 | 27.27 | 2.14 | 58.39 | 2.35 | 0.10 | 0.65 |
| 0.56 | 20.48 | 32.85 | 1.78 | 58.60 | 2.26 | 0.10 | 0.65 |
| 0.58 | 24.93 | 40.00 | 1.52 | 60.77 | 2.16 | 0.12 | 0.66 |
| 0.61 | 30.70 | 49.27 | 1.35 | 66.61 | 2.05 | 0.19 | 0.67 |
| 0.66 | 36.94 | 59.30 | 1.27 | 75.22 | 1.95 | 0.39 | 0.70 |
| 0.76 | 40.79 | 65.47 | 1.23 | 80.72 | 1.89 | 0.62 | 0.71 |
| 0.80 | 38.66 | 62.05 | 1.25 | 77.85 | 1.93 | 0.49 | 0.70 |
| 0.81 | 35.49 | 56.95 | 1.29 | 73.41 | 1.98 | 0.34 | 0.69 |
| 0.85 | 32.42 | 52.02 | 1.33 | 69.37 | 2.03 | 0.24 | 0.68 |
| 0.86 | 32.79 | 52.62 | 1.33 | 69.99 | 2.03 | 0.25 | 0.68 |
| 0.90 | 32.22 | 51.69 | 1.35 | 70.01 | 2.05 | 0.25 | 0.68 |
| 0.95 | 31.82 | 51.04 | 1.38 | 70.34 | 2.07 | 0.26 | 0.68 |
| 1.00 | 30.53 | 48.97 | 1.37 | 67.09 | 2.06 | 0.20 | 0.68 |
| 1.05 | 28.88 | 46.31 | 1.34 | 62.22 | 2.04 | 0.14 | 0.66 |
| 1.14 | 26.55 | 42.56 | 1.00 | 42.56 | 2.01 | 0.03 | 0.62 |
| 1.24 | 24.29 | 38.92 | 1.00 | 38.92 | 2.04 | 0.03 | 0.62 |
| 1.31 | 20.51 | 32.85 | 1.00 | 32.85 | 2.14 | 0.02 | 0.62 |
| 1.36 | 17.93 | 28.70 | 1.67 | 48.03 | 2.22 | 0.05 | 0.62 |
| 1.37 | 17.77 | 28.44 | 1.71 | 48.50 | 2.23 | 0.05 | 0.62 |
| 1.39 | 18.54 | 29.68 | 1.64 | 48.64 | 2.21 | 0.05 | 0.62 |
| 1.43 | 19.03 | 30.46 | 1.60 | 48.73 | 2.19 | 0.05 | 0.62 |
| 1.44 | 18.05 | 28.88 | 1.68 | 48.54 | 2.23 | 0.05 | 0.62 |
| 1.49 | 18.35 | 29.36 | 1.67 | 49.05 | 2.22 | 0.05 | 0.62 |
| 1.53 | 18.89 | 30.23 | 1.66 | 50.30 | 2.22 | 0.05 | 0.63 |
| 1.58 | 19.67 | 31.47 | 1.66 | 52.29 | 2.22 | 0.06 | 0.63 |
| 1.63 | 20.62 | 32.99 | 1.66 | 54.77 | 2.22 | 0.08 | 0.64 |
| 1.68 | 21.70 | 34.72 | 1.65 | 57.36 | 2.21 | 0.09 | 0.65 |
| 1.72 | 23.31 | 37.31 | 1.61 | 60.04 | 2.20 | 0.11 | 0.66 |
| 1.77 | 25.48 | 40.78 | 1.54 | 62.93 | 2.17 | 0.14 | 0.66 |
| 1.82 | 28.31 | 45.33 | 1.46 | 66.36 | 2.13 | 0.19 | 0.67 |
| 1.86 | 31.52 | 50.48 | 1.40 | 70.45 | 2.08 | 0.26 | 0.68 |
| 1.92 | 35.09 | 56.22 | 1.34 | 75.14 | 2.03 | 0.39 | 0.70 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 1.97 | 38.67 | 61.96 | 1.29 | 80.21 | 1.98 | 0.59 | 0.71 |
| 2.01 | 41.61 | 66.68 | 1.27 | 84.88 | 1.95 | 0.72 | 0.72 |
| 2.09 | 43.22 | 69.27 | 1.26 | 87.55 | 1.94 | 0.72 | 0.72 |
| 2.16 | 43.05 | 68.99 | 1.27 | 87.53 | 1.95 | 0.72 | 0.72 |
| 2.20 | 41.47 | 66.43 | 1.28 | 85.02 | 1.96 | 0.72 | 0.72 |
| 2.25 | 39.85 | 63.83 | 1.29 | 82.39 | 1.98 | 0.71 | 0.71 |
| 2.31 | 38.60 | 61.82 | 1.30 | 80.09 | 1.99 | 0.59 | 0.71 |
| 2.37 | 37.79 | 60.52 | 1.29 | 78.32 | 1.98 | 0.51 | 0.70 |
| 2.40 | 36.88 | 59.05 | 1.30 | 76.51 | 1.99 | 0.44 | 0.70 |
| 2.46 | 35.97 | 57.57 | 1.29 | 74.55 | 1.98 | 0.37 | 0.69 |
| 2.54 | 35.36 | 56.59 | 1.29 | 72.87 | 1.97 | 0.32 | 0.69 |
| 2.59 | 34.69 | 55.51 | 1.00 | 55.51 | 1.96 | 0.08 | 0.64 |
| 2.69 | 34.25 | 54.80 | 1.00 | 54.80 | 1.94 | 0.08 | 0.64 |
| 2.74 | 33.95 | 54.31 | 1.00 | 54.31 | 1.92 | 0.07 | 0.64 |
| 2.83 | 33.88 | 54.19 | 1.00 | 54.19 | 1.92 | 0.07 | 0.64 |
| 2.88 | 34.35 | 54.94 | 1.00 | 54.94 | 1.91 | 0.08 | 0.64 |
| 2.98 | 35.70 | 57.10 | 1.00 | 57.10 | 1.89 | 0.09 | 0.65 |
| 3.03 | 38.57 | 61.71 | 1.00 | 61.71 | 1.85 | 0.13 | 0.66 |
| 3.12 | 42.31 | 67.72 | 1.00 | 67.72 | 1.82 | 0.21 | 0.68 |
| 3.21 | 46.83 | 74.97 | 1.00 | 74.97 | 1.79 | 0.38 | 0.70 |
| 3.27 | 51.66 | 82.72 | 1.00 | 82.72 | 1.76 | 0.71 | 0.71 |
| 3.34 | 57.05 | 91.38 | 1.00 | 91.38 | 1.72 | 0.73 | 0.73 |
| 3.41 | 61.91 | 99.18 | 1.00 | 99.18 | 1.69 | 0.75 | 0.75 |
| 3.51 | 64.20 | 102.85 | 1.00 | 102.85 | 1.68 | 0.75 | 0.75 |
| 3.55 | 63.63 | 101.93 | 1.00 | 101.93 | 1.70 | 0.75 | 0.75 |
| 3.65 | 62.42 | 99.97 | 1.00 | 99.97 | 1.72 | 0.75 | 0.75 |
| 3.75 | 61.71 | 98.83 | 1.00 | 98.83 | 1.73 | 0.75 | 0.75 |
| 3.83 | 61.44 | 98.39 | 1.00 | 98.39 | 1.73 | 0.75 | 0.75 |
| 3.94 | 61.11 | 97.84 | 1.00 | 97.84 | 1.73 | 0.74 | 0.74 |
| 4.04 | 60.30 | 96.53 | 1.00 | 96.53 | 1.73 | 0.74 | 0.74 |
| 4.13 | 60.63 | 97.06 | 1.08 | 104.72 | 1.75 | 0.76 | 0.76 |
| 4.24 | 61.68 | 98.73 | 1.00 | 98.73 | 1.74 | 0.75 | 0.75 |
| 4.38 | 65.15 | 104.30 | 1.00 | 104.30 | 1.68 | 0.76 | 0.76 |
| 4.50 | 68.93 | 110.36 | 1.00 | 110.36 | 1.62 | 0.77 | 0.77 |
| 4.62 | 74.13 | 118.70 | 1.00 | 118.70 | 1.57 | 0.78 | 0.78 |
| 4.71 | 77.89 | 124.73 | 1.00 | 124.73 | 1.57 | 0.79 | 0.79 |
| 4.75 | 80.93 | 129.61 | 1.00 | 129.61 | 1.57 | 0.80 | 0.80 |
| 4.84 | 82.11 | 131.50 | 1.00 | 131.50 | 1.58 | 0.80 | 0.80 |
| 4.89 | 82.93 | 132.82 | 1.00 | 132.82 | 1.58 | 0.80 | 0.80 |
| 4.94 | 82.93 | 132.82 | 1.00 | 132.82 | 1.58 | 0.80 | 0.80 |
| 4.98 | 81.72 | 130.87 | 1.00 | 130.87 | 1.59 | 0.80 | 0.80 |
| 5.07 | 80.10 | 128.25 | 1.00 | 128.25 | 1.60 | 0.80 | 0.80 |
| 5.13 | 78.48 | 125.65 | 1.00 | 125.65 | 1.61 | 0.79 | 0.79 |
| 5.17 | 76.79 | 122.93 | 1.00 | 122.93 | 1.61 | 0.79 | 0.79 |
| 5.27 | 74.77 | 119.67 | 1.00 | 119.67 | 1.62 | 0.78 | 0.78 |
| 5.32 | 72.75 | 116.42 | 1.00 | 116.42 | 1.63 | 0.78 | 0.78 |
| 5.42 | 70.86 | 113.37 | 1.00 | 113.37 | 1.64 | 0.77 | 0.77 |
| 5.46 | 69.34 | 110.93 | 1.00 | 110.93 | 1.64 | 0.77 | 0.77 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 5.56 | 68.02 | 108.80 | 1.00 | 108.80 | 1.65 | 0.76 | 0.76 |
| 5.61 | 66.87 | 106.96 | 1.00 | 106.96 | 1.66 | 0.76 | 0.76 |
| 5.71 | 65.86 | 105.32 | 1.00 | 105.32 | 1.66 | 0.76 | 0.76 |
| 5.78 | 64.92 | 103.80 | 1.00 | 103.80 | 1.67 | 0.76 | 0.76 |
| 5.85 | 63.84 | 102.06 | 1.00 | 102.06 | 1.68 | 0.75 | 0.75 |
| 5.95 | 62.83 | 100.42 | 1.00 | 100.42 | 1.69 | 0.75 | 0.75 |
| 6.00 | 62.32 | 99.61 | 1.00 | 99.61 | 1.71 | 0.75 | 0.75 |
| 6.09 | 62.93 | 100.57 | 1.00 | 100.57 | 1.66 | 0.75 | 0.75 |
| 6.14 | 64.75 | 103.50 | 1.00 | 103.50 | 1.60 | 0.75 | 0.75 |
| 6.24 | 67.52 | 107.94 | 1.00 | 107.94 | 1.53 | 0.76 | 0.76 |
| 6.30 | 70.42 | 112.60 | 1.00 | 112.60 | 1.54 | 0.77 | 0.77 |
| 6.38 | 71.40 | 114.16 | 1.00 | 114.16 | 1.56 | 0.77 | 0.77 |
| 6.46 | 69.58 | 111.22 | 1.00 | 111.22 | 1.60 | 0.77 | 0.77 |
| 6.50 | 68.43 | 109.38 | 1.00 | 109.38 | 1.62 | 0.77 | 0.77 |
| 6.56 | 68.84 | 110.02 | 1.00 | 110.02 | 1.63 | 0.77 | 0.77 |
| 6.63 | 71.30 | 113.98 | 1.00 | 113.98 | 1.61 | 0.77 | 0.77 |
| 6.68 | 72.51 | 115.92 | 1.00 | 115.92 | 1.61 | 0.78 | 0.78 |
| 6.76 | 73.49 | 117.34 | 1.00 | 117.34 | 1.61 | 0.78 | 0.78 |
| 6.82 | 74.54 | 118.51 | 1.00 | 118.51 | 1.60 | 0.78 | 0.78 |
| 6.88 | 76.19 | 120.59 | 1.00 | 120.59 | 1.59 | 0.78 | 0.78 |
| 6.96 | 78.38 | 123.33 | 1.00 | 123.33 | 1.58 | 0.79 | 0.79 |
| 7.03 | 80.54 | 126.09 | 1.00 | 126.09 | 1.56 | 0.79 | 0.79 |
| 7.11 | 82.06 | 127.75 | 1.00 | 127.75 | 1.55 | 0.80 | 0.80 |
| 7.16 | 83.04 | 128.83 | 1.00 | 128.83 | 1.55 | 0.80 | 0.80 |
| 7.26 | 83.82 | 129.11 | 1.00 | 129.11 | 1.55 | 0.80 | 0.80 |
| 7.31 | 84.43 | 129.55 | 1.00 | 129.55 | 1.56 | 0.80 | 0.80 |
| 7.40 | 84.63 | 129.06 | 1.00 | 129.06 | 1.56 | 0.80 | 0.80 |
| 7.45 | 84.52 | 128.43 | 1.00 | 128.43 | 1.56 | 0.80 | 0.80 |
| 7.54 | 83.95 | 126.75 | 1.00 | 126.75 | 1.57 | 0.79 | 0.79 |
| 7.60 | 82.84 | 124.58 | 1.00 | 124.58 | 1.58 | 0.79 | 0.79 |
| 7.68 | 81.22 | 121.42 | 1.00 | 121.42 | 1.59 | 0.79 | 0.79 |
| 7.74 | 79.70 | 118.70 | 1.00 | 118.70 | 1.60 | 0.78 | 0.78 |
| 7.83 | 78.55 | 116.27 | 1.00 | 116.27 | 1.61 | 0.78 | 0.78 |
| 7.90 | 78.35 | 115.47 | 1.00 | 115.47 | 1.61 | 0.78 | 0.78 |
| 7.98 | 79.10 | 115.95 | 1.00 | 115.95 | 1.62 | 0.78 | 0.78 |
| 8.05 | 80.62 | 117.66 | 1.00 | 117.66 | 1.62 | 0.78 | 0.78 |
| 8.12 | 81.69 | 118.66 | 1.00 | 118.66 | 1.62 | 0.78 | 0.78 |
| 8.19 | 81.66 | 118.08 | 1.00 | 118.08 | 1.62 | 0.78 | 0.78 |
| 8.27 | 80.48 | 115.81 | 1.00 | 115.81 | 1.64 | 0.78 | 0.78 |
| 8.36 | 79.13 | 113.39 | 1.00 | 113.39 | 1.65 | 0.77 | 0.77 |
| 8.41 | 78.35 | 111.75 | 1.00 | 111.75 | 1.61 | 0.77 | 0.77 |
| 8.50 | 78.42 | 111.21 | 1.00 | 111.21 | 1.57 | 0.77 | 0.77 |
| 8.60 | 78.79 | 111.10 | 1.00 | 111.10 | 1.54 | 0.77 | 0.77 |
| 8.70 | 78.76 | 110.43 | 1.00 | 110.43 | 1.56 | 0.77 | 0.77 |
| 8.74 | 70.97 | 99.16 | 1.00 | 99.16 | 1.64 | 0.75 | 0.75 |
| 8.78 | 65.57 | 92.36 | 1.00 | 92.36 | 1.68 | 0.73 | 0.73 |
| 8.81 | 63.58 | 89.84 | 1.00 | 89.84 | 1.71 | 0.73 | 0.73 |
| 8.86 | 69.75 | 97.38 | 1.00 | 97.38 | 1.66 | 0.74 | 0.74 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 8.91 | 73.77 | 102.14 | 1.00 | 102.14 | 1.64 | 0.75 | 0.75 |
| 8.94 | 74.34 | 102.81 | 1.00 | 102.81 | 1.64 | 0.75 | 0.75 |
| 9.02 | 73.80 | 101.95 | 1.00 | 101.95 | 1.66 | 0.75 | 0.75 |
| 9.10 | 72.52 | 100.12 | 1.00 | 100.12 | 1.68 | 0.75 | 0.75 |
| 9.17 | 71.17 | 98.18 | 1.00 | 98.18 | 1.69 | 0.74 | 0.74 |
| 9.22 | 69.95 | 96.47 | 1.00 | 96.47 | 1.70 | 0.74 | 0.74 |
| 9.31 | 69.01 | 94.84 | 1.00 | 94.84 | 1.71 | 0.74 | 0.74 |
| 9.37 | 68.50 | 93.92 | 1.00 | 93.92 | 1.72 | 0.74 | 0.74 |
| 9.42 | 68.60 | 93.81 | 1.00 | 93.81 | 1.72 | 0.74 | 0.74 |
| 9.52 | 69.18 | 94.01 | 1.00 | 94.01 | 1.72 | 0.74 | 0.74 |
| 9.60 | 70.19 | 94.84 | 1.00 | 94.84 | 1.71 | 0.74 | 0.74 |
| 9.66 | 71.54 | 96.20 | 1.00 | 96.20 | 1.70 | 0.74 | 0.74 |
| 9.74 | 73.13 | 97.75 | 1.00 | 97.75 | 1.69 | 0.74 | 0.74 |
| 9.81 | 74.58 | 99.20 | 1.00 | 99.20 | 1.69 | 0.75 | 0.75 |
| 9.89 | 75.79 | 100.34 | 1.00 | 100.34 | 1.68 | 0.75 | 0.75 |
| 9.98 | 77.04 | 101.50 | 1.00 | 101.50 | 1.68 | 0.75 | 0.75 |
| 10.03 | 78.79 | 103.47 | 1.00 | 103.47 | 1.68 | 0.75 | 0.75 |
| 10.13 | 81.26 | 106.04 | 1.00 | 106.04 | 1.67 | 0.76 | 0.76 |
| 10.23 | 84.06 | 108.97 | 1.00 | 108.97 | 1.66 | 0.76 | 0.76 |
| 10.32 | 86.45 | 111.33 | 1.00 | 111.33 | 1.65 | 0.77 | 0.77 |
| 10.38 | 88.11 | 112.97 | 1.00 | 112.97 | 1.65 | 0.77 | 0.77 |
| 10.47 | 88.68 | 113.17 | 1.00 | 113.17 | 1.65 | 0.77 | 0.77 |
| 10.57 | 88.44 | 112.36 | 1.00 | 112.36 | 1.65 | 0.77 | 0.77 |
| 10.66 | 87.94 | 111.05 | 1.00 | 111.05 | 1.61 | 0.77 | 0.77 |
| 10.76 | 87.67 | 110.18 | 1.00 | 110.18 | 1.57 | 0.77 | 0.77 |
| 10.85 | 88.00 | 110.11 | 1.00 | 110.11 | 1.53 | 0.77 | 0.77 |
| 10.92 | 88.54 | 110.44 | 1.00 | 110.44 | 1.55 | 0.77 | 0.77 |
| 11.00 | 85.17 | 105.80 | 1.00 | 105.80 | 1.58 | 0.76 | 0.76 |
| 11.07 | 82.17 | 101.74 | 1.00 | 101.74 | 1.61 | 0.75 | 0.75 |
| 11.10 | 80.21 | 99.18 | 1.00 | 99.18 | 1.63 | 0.75 | 0.75 |
| 11.15 | 82.81 | 102.16 | 1.00 | 102.16 | 1.62 | 0.75 | 0.75 |
| 11.19 | 85.41 | 105.18 | 1.00 | 105.18 | 1.61 | 0.76 | 0.76 |
| 11.24 | 87.43 | 107.45 | 1.00 | 107.45 | 1.61 | 0.76 | 0.76 |
| 11.29 | 89.66 | 109.95 | 1.00 | 109.95 | 1.61 | 0.77 | 0.77 |
| 11.34 | 92.29 | 112.96 | 1.00 | 112.96 | 1.60 | 0.77 | 0.77 |
| 11.40 | 94.89 | 115.81 | 1.00 | 115.81 | 1.60 | 0.78 | 0.78 |
| 11.47 | 96.81 | 117.83 | 1.00 | 117.83 | 1.60 | 0.78 | 0.78 |
| 11.53 | 97.72 | 118.60 | 1.00 | 118.60 | 1.60 | 0.78 | 0.78 |
| 11.58 | 98.23 | 118.97 | 1.00 | 118.97 | 1.60 | 0.78 | 0.78 |
| 11.65 | 98.70 | 119.16 | 1.00 | 119.16 | 1.61 | 0.78 | 0.78 |
| 11.72 | 99.17 | 119.34 | 1.00 | 119.34 | 1.61 | 0.78 | 0.78 |
| 11.77 | 99.00 | 118.88 | 1.00 | 118.88 | 1.61 | 0.78 | 0.78 |
| 11.82 | 98.36 | 117.83 | 1.00 | 117.83 | 1.62 | 0.78 | 0.78 |
| 11.88 | 97.25 | 116.19 | 1.00 | 116.19 | 1.64 | 0.78 | 0.78 |
| 11.97 | 96.10 | 114.49 | 1.00 | 114.49 | 1.65 | 0.77 | 0.77 |
| 12.02 | 94.75 | 112.75 | 1.00 | 112.75 | 1.65 | 0.77 | 0.77 |
| 12.06 | 93.54 | 110.95 | 1.00 | 110.95 | 1.65 | 0.77 | 0.77 |
| 12.11 | 93.03 | 110.11 | 1.00 | 110.11 | 1.65 | 0.77 | 0.77 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 12.21 | 92.63 | 109.15 | 1.00 | 109.15 | 1.65 | 0.76 | 0.76 |
| 12.25 | 92.93 | 109.21 | 1.00 | 109.21 | 1.64 | 0.76 | 0.76 |
| 12.30 | 93.00 | 109.05 | 1.00 | 109.05 | 1.64 | 0.76 | 0.76 |
| 12.31 | 93.44 | 109.51 | 1.00 | 109.51 | 1.63 | 0.77 | 0.77 |
| 12.32 | 93.64 | 109.72 | 1.00 | 109.72 | 1.63 | 0.77 | 0.77 |
| 12.35 | 94.21 | 110.25 | 1.00 | 110.25 | 1.62 | 0.77 | 0.77 |
| 12.40 | 95.26 | 111.26 | 1.00 | 111.26 | 1.61 | 0.77 | 0.77 |
| 12.45 | 96.78 | 112.82 | 1.00 | 112.82 | 1.60 | 0.77 | 0.77 |
| 12.52 | 98.43 | 114.40 | 1.00 | 114.40 | 1.60 | 0.77 | 0.77 |
| 12.56 | 100.32 | 116.43 | 1.00 | 116.43 | 1.59 | 0.78 | 0.78 |
| 12.62 | 102.04 | 118.16 | 1.00 | 118.16 | 1.59 | 0.78 | 0.78 |
| 12.65 | 103.69 | 119.90 | 1.00 | 119.90 | 1.56 | 0.78 | 0.78 |
| 12.71 | 105.14 | 121.32 | 1.00 | 121.32 | 1.53 | 0.78 | 0.78 |
| 12.76 | 107.34 | 123.61 | 1.00 | 123.61 | 1.48 | 0.79 | 0.79 |
| 12.83 | 110.34 | 126.74 | 1.00 | 126.74 | 1.48 | 0.79 | 0.79 |
| 12.88 | 114.29 | 131.03 | 1.00 | 131.03 | 1.50 | 0.80 | 0.80 |
| 12.93 | 118.94 | 136.14 | 1.00 | 136.14 | 1.50 | 0.81 | 0.81 |
| 12.98 | 121.44 | 138.73 | 1.00 | 138.73 | 1.52 | 0.81 | 0.81 |
| 13.03 | 123.77 | 141.10 | 1.00 | 141.10 | 1.52 | 0.81 | 0.81 |
| 13.04 | 120.16 | 136.93 | 1.00 | 136.93 | 1.54 | 0.81 | 0.81 |
| 13.07 | 122.72 | 139.66 | 1.00 | 139.66 | 1.54 | 0.81 | 0.81 |
| 13.13 | 125.66 | 142.70 | 1.00 | 142.70 | 1.55 | 0.82 | 0.82 |
| 13.17 | 134.36 | 152.37 | 1.00 | 152.37 | 1.53 | 0.83 | 0.83 |
| 13.22 | 137.87 | 156.08 | 1.00 | 156.08 | 1.53 | 0.84 | 0.84 |
| 13.27 | 140.13 | 158.31 | 1.00 | 158.31 | 1.54 | 0.84 | 0.84 |
| 13.32 | 141.11 | 159.12 | 1.00 | 159.12 | 1.54 | 0.84 | 0.84 |
| 13.37 | 141.28 | 159.00 | 1.00 | 159.00 | 1.55 | 0.84 | 0.84 |
| 13.41 | 140.67 | 158.02 | 1.00 | 158.02 | 1.55 | 0.84 | 0.84 |
| 13.46 | 139.05 | 155.85 | 1.00 | 155.85 | 1.56 | 0.83 | 0.83 |
| 13.51 | 137.63 | 153.98 | 1.00 | 153.98 | 1.57 | 0.83 | 0.83 |
| 13.56 | 135.98 | 151.81 | 1.00 | 151.81 | 1.58 | 0.83 | 0.83 |
| 13.60 | 134.29 | 149.65 | 1.00 | 149.65 | 1.59 | 0.83 | 0.83 |
| 13.66 | 132.81 | 147.65 | 1.00 | 147.65 | 1.60 | 0.82 | 0.82 |
| 13.75 | 131.80 | 145.98 | 1.00 | 145.98 | 1.60 | 0.82 | 0.82 |
| 13.80 | 131.19 | 145.02 | 1.00 | 145.02 | 1.60 | 0.82 | 0.82 |
| 13.89 | 130.75 | 144.01 | 1.00 | 144.01 | 1.61 | 0.82 | 0.82 |
| 13.94 | 129.81 | 142.69 | 1.00 | 142.69 | 1.61 | 0.82 | 0.82 |
| 13.99 | 128.19 | 140.62 | 1.00 | 140.62 | 1.63 | 0.81 | 0.81 |
| 14.09 | 125.39 | 137.21 | 1.00 | 137.21 | 1.65 | 0.81 | 0.81 |
| 14.14 | 122.28 | 133.79 | 1.00 | 133.79 | 1.68 | 0.80 | 0.80 |
| 14.23 | 119.38 | 130.35 | 1.00 | 130.35 | 1.70 | 0.80 | 0.80 |
| 14.28 | 117.19 | 127.54 | 1.00 | 127.54 | 1.68 | 0.79 | 0.79 |
| 14.38 | 116.43 | 125.95 | 1.00 | 125.95 | 1.66 | 0.79 | 0.79 |
| 14.42 | 115.35 | 124.40 | 1.00 | 124.40 | 1.63 | 0.79 | 0.79 |
| 14.52 | 115.79 | 124.40 | 1.00 | 124.40 | 1.63 | 0.79 | 0.79 |
| 14.57 | 116.75 | 125.23 | 1.00 | 125.23 | 1.64 | 0.79 | 0.79 |
| 14.67 | 117.53 | 125.60 | 1.00 | 125.60 | 1.64 | 0.79 | 0.79 |
| 14.68 | 117.83 | 125.93 | 1.00 | 125.93 | 1.64 | 0.79 | 0.79 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 14.70 | 116.41 | 124.39 | 1.00 | 124.39 | 1.65 | 0.79 | 0.79 |
| 14.75 | 116.58 | 124.38 | 1.00 | 124.38 | 1.66 | 0.79 | 0.79 |
| 14.80 | 116.18 | 123.80 | 1.00 | 123.80 | 1.66 | 0.79 | 0.79 |
| 14.89 | 116.21 | 123.45 | 1.00 | 123.45 | 1.67 | 0.79 | 0.79 |
| 14.94 | 114.76 | 121.75 | 1.00 | 121.75 | 1.68 | 0.79 | 0.79 |
| 15.04 | 111.83 | 118.29 | 1.00 | 118.29 | 1.69 | 0.78 | 0.78 |
| 15.13 | 107.24 | 113.18 | 1.01 | 114.51 | 1.71 | 0.77 | 0.77 |
| 15.21 | 101.74 | 107.19 | 1.06 | 113.68 | 1.74 | 0.77 | 0.77 |
| 15.28 | 95.87 | 100.87 | 1.10 | 111.36 | 1.76 | 0.77 | 0.77 |
| 15.38 | 90.00 | 94.46 | 1.14 | 107.63 | 1.79 | 0.76 | 0.76 |
| 15.47 | 83.86 | 87.79 | 1.17 | 102.77 | 1.82 | 0.75 | 0.75 |
| 15.57 | 77.55 | 80.97 | 1.20 | 97.12 | 1.85 | 0.74 | 0.74 |
| 15.67 | 70.76 | 73.71 | 1.23 | 90.52 | 1.89 | 0.73 | 0.73 |
| 15.77 | 63.91 | 66.40 | 1.26 | 83.47 | 1.93 | 0.71 | 0.71 |
| 15.86 | 57.27 | 59.33 | 1.29 | 76.63 | 1.98 | 0.44 | 0.70 |
| 15.96 | 51.73 | 53.45 | 1.34 | 71.45 | 2.03 | 0.29 | 0.69 |
| 16.05 | 47.31 | 48.75 | 1.40 | 68.25 | 2.09 | 0.22 | 0.68 |
| 16.15 | 43.60 | 44.83 | 1.51 | 67.79 | 2.15 | 0.21 | 0.68 |
| 16.25 | 41.11 | 42.13 | 1.63 | 68.47 | 2.20 | 0.22 | 0.68 |
| 16.31 | 39.86 | 40.76 | 1.71 | 69.57 | 2.23 | 0.25 | 0.68 |
| 16.39 | 39.72 | 40.48 | 1.70 | 68.78 | 2.23 | 0.23 | 0.68 |
| 16.48 | 40.50 | 41.08 | 1.65 | 67.59 | 2.21 | 0.21 | 0.68 |
| 16.59 | 43.06 | 43.47 | 1.53 | 66.70 | 2.17 | 0.19 | 0.67 |
| 16.68 | 47.95 | 48.20 | 1.40 | 67.68 | 2.09 | 0.21 | 0.68 |
| 16.76 | 53.89 | 53.96 | 1.31 | 70.90 | 2.01 | 0.27 | 0.69 |
| 16.86 | 58.72 | 58.53 | 1.27 | 74.31 | 1.95 | 0.36 | 0.69 |
| 16.92 | 61.25 | 60.90 | 1.25 | 76.25 | 1.92 | 0.43 | 0.70 |
| 17.02 | 61.65 | 61.10 | 1.25 | 76.36 | 1.92 | 0.43 | 0.70 |
| 17.11 | 61.14 | 60.41 | 1.26 | 76.12 | 1.94 | 0.42 | 0.70 |
| 17.22 | 60.40 | 59.48 | 1.28 | 75.94 | 1.96 | 0.42 | 0.70 |
| 17.35 | 58.51 | 57.44 | 1.34 | 77.19 | 2.04 | 0.46 | 0.70 |
| 17.45 | 53.15 | 52.07 | 1.57 | 81.76 | 2.18 | 0.68 | 0.71 |
| 17.55 | 43.40 | 42.36 | 2.26 | 95.58 | 2.38 | 0.74 | 0.74 |
| 17.61 | 33.92 | 32.93 | 3.48 | 114.42 | 2.57 | 0.77 | 0.77 |
| 17.64 | 27.41 | 26.45 | 4.70 | 124.38 | 2.70 | 0.79 | 0.79 |
| 17.70 | 24.84 | 23.84 | 5.27 | 125.58 | 2.75 | 0.79 | 0.79 |
| 17.75 | 23.12 | 22.09 | 5.71 | 126.01 | 2.79 | 0.79 | 0.79 |
| 17.80 | 22.04 | 20.96 | 6.07 | 127.17 | 2.82 | 0.79 | 0.79 |
| 17.85 | 21.57 | 20.45 | 6.49 | 132.79 | 2.85 | 0.80 | 0.80 |
| 17.94 | 24.37 | 23.10 | 5.83 | 134.72 | 2.80 | 0.81 | 0.81 |
| 17.99 | 29.74 | 28.29 | 4.75 | 134.51 | 2.70 | 0.81 | 0.81 |
| 18.09 | 36.42 | 34.65 | 3.76 | 130.35 | 2.60 | 0.80 | 0.80 |
| 18.15 | 38.34 | 36.42 | 3.61 | 131.44 | 2.58 | 0.80 | 0.80 |
| 18.23 | 36.08 | 34.09 | 3.99 | 135.89 | 2.63 | 0.81 | 0.81 |
| 18.33 | 27.03 | 25.22 | 5.88 | 148.20 | 2.80 | 0.82 | 0.82 |
| 18.43 | 18.43 | 16.85 | 8.99 | 151.54 | 3.01 | 1.12 | 1.20 |
| 18.52 | 11.28 | 9.87 | 14.46 | 142.66 | 3.27 | 0.79 | 0.70 |
| 18.59 | 9.25 | 7.88 | 15.23 | 120.07 | 3.30 | 0.54 | 0.56 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 18.72 | 8.44 | 7.05 | 14.48 | 102.14 | 3.27 | 0.33 | 0.50 |
| 18.81 | 7.87 | 6.47 | 14.17 | 91.69 | 3.26 | 0.29 | 0.46 |
| 18.87 | 7.73 | 6.32 | 14.34 | 90.62 | 3.27 | 0.28 | 0.45 |
| 18.95 | 7.94 | 6.48 | 14.76 | 95.67 | 3.28 | 0.31 | 0.46 |
| 19.05 | 8.95 | 7.39 | 13.77 | 101.75 | 3.24 | 0.40 | 0.53 |
| 19.14 | 11.32 | 9.56 | 10.96 | 104.74 | 3.12 | 0.45 | 0.68 |
| 19.22 | 15.43 | 13.37 | 7.56 | 101.14 | 2.92 | 0.75 | 0.75 |
| 19.29 | 23.29 | 20.64 | 4.44 | 91.70 | 2.67 | 0.73 | 0.73 |
| 19.38 | 36.79 | 33.12 | 2.43 | 80.52 | 2.41 | 0.61 | 0.71 |
| 19.44 | 54.77 | 49.78 | 1.63 | 81.04 | 2.21 | 0.64 | 0.71 |
| 19.53 | 73.63 | 67.13 | 1.37 | 92.11 | 2.06 | 0.73 | 0.73 |
| 19.62 | 89.35 | 81.50 | 1.30 | 105.61 | 1.99 | 0.76 | 0.76 |
| 19.69 | 100.62 | 91.73 | 1.27 | 116.28 | 1.95 | 0.78 | 0.78 |
| 19.79 | 106.79 | 97.11 | 1.26 | 122.62 | 1.94 | 0.79 | 0.79 |
| 19.86 | 108.17 | 98.11 | 1.28 | 125.15 | 1.96 | 0.79 | 0.79 |
| 19.97 | 105.91 | 95.65 | 1.30 | 124.06 | 1.99 | 0.79 | 0.79 |
| 20.07 | 101.09 | 90.89 | 1.33 | 120.48 | 2.02 | 0.78 | 0.78 |
| 20.16 | 94.14 | 84.23 | 1.37 | 115.28 | 2.06 | 0.78 | 0.78 |
| 20.26 | 84.49 | 75.23 | 1.38 | 103.79 | 2.07 | 0.76 | 0.76 |
| 20.34 | 72.68 | 64.34 | 1.43 | 91.71 | 2.10 | 0.73 | 0.73 |
| 20.43 | 59.83 | 52.55 | 1.52 | 80.02 | 2.16 | 0.58 | 0.71 |
| 20.50 | 47.95 | 41.63 | 2.03 | 84.51 | 2.33 | 0.72 | 0.72 |
| 20.60 | 37.70 | 32.23 | 3.01 | 96.91 | 2.50 | 0.74 | 0.74 |
| 20.62 | 30.48 | 25.73 | 4.28 | 110.02 | 2.66 | 0.77 | 0.77 |
| 20.63 | 28.08 | 23.58 | 4.89 | 115.31 | 2.72 | 0.78 | 0.78 |
| 20.68 | 27.74 | 23.22 | 5.10 | 118.43 | 2.74 | 0.78 | 0.78 |
| 20.73 | 27.64 | 23.06 | 5.32 | 122.67 | 2.76 | 0.79 | 0.79 |
| 20.82 | 25.48 | 21.06 | 6.08 | 128.12 | 2.82 | 0.80 | 0.80 |
| 20.87 | 23.45 | 19.23 | 6.78 | 130.45 | 2.87 | 0.80 | 0.80 |
| 20.91 | 21.57 | 17.54 | 7.32 | 128.42 | 2.91 | 0.80 | 0.80 |
| 20.96 | 19.58 | 15.59 | 7.98 | 124.40 | 2.95 | 0.79 | 0.79 |
| 21.05 | 17.59 | 13.84 | 8.82 | 122.12 | 3.00 | 0.63 | 0.99 |
| 21.11 | 16.98 | 13.29 | 9.07 | 120.49 | 3.02 | 0.63 | 0.95 |
| 21.17 | 17.11 | 13.36 | 9.02 | 120.44 | 3.01 | 0.63 | 0.95 |
| 21.25 | 21.23 | 17.01 | 6.86 | 116.62 | 2.88 | 0.78 | 0.78 |
| 21.30 | 31.25 | 25.68 | 4.13 | 106.03 | 2.64 | 0.76 | 0.76 |
| 21.37 | 48.56 | 40.77 | 2.31 | 94.37 | 2.39 | 0.74 | 0.74 |
| 21.45 | 68.84 | 58.49 | 1.62 | 94.86 | 2.20 | 0.74 | 0.74 |
| 21.49 | 87.80 | 75.10 | 1.41 | 105.59 | 2.09 | 0.76 | 0.76 |
| 21.58 | 103.45 | 88.68 | 1.33 | 117.80 | 2.02 | 0.78 | 0.78 |
| 21.64 | 115.70 | 99.28 | 1.29 | 128.46 | 1.98 | 0.80 | 0.80 |
| 21.69 | 124.50 | 106.86 | 1.28 | 136.49 | 1.96 | 0.81 | 0.81 |
| 21.78 | 130.41 | 111.69 | 1.27 | 142.03 | 1.95 | 0.82 | 0.82 |
| 21.83 | 133.78 | 114.42 | 1.27 | 145.79 | 1.96 | 0.82 | 0.82 |
| 21.89 | 135.43 | 115.57 | 1.28 | 148.03 | 1.97 | 0.82 | 0.82 |
| 21.98 | 136.01 | 115.67 | 1.29 | 149.32 | 1.98 | 0.83 | 0.83 |
| 22.03 | 135.90 | 115.31 | 1.30 | 150.06 | 1.99 | 0.83 | 0.83 |
| 22.12 | 134.89 | 114.06 | 1.31 | 149.60 | 2.01 | 0.83 | 0.83 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 22.22 | 133.20 | 112.20 | 1.32 | 148.31 | 2.02 | 0.82 | 0.82 |
| 22.26 | 130.88 | 110.01 | 1.33 | 146.45 | 2.03 | 0.82 | 0.82 |
| 22.36 | 128.38 | 107.52 | 1.34 | 144.21 | 2.04 | 0.82 | 0.82 |
| 22.41 | 125.79 | 105.07 | 1.36 | 142.38 | 2.05 | 0.82 | 0.82 |
| 22.51 | 123.53 | 102.88 | 1.35 | 138.65 | 2.04 | 0.81 | 0.81 |
| 22.60 | 121.33 | 100.82 | 1.34 | 134.71 | 2.03 | 0.81 | 0.81 |
| 22.70 | 119.34 | 98.95 | 1.32 | 130.43 | 2.01 | 0.80 | 0.80 |
| 22.75 | 116.88 | 96.72 | 1.32 | 127.90 | 2.02 | 0.80 | 0.80 |
| 22.84 | 109.32 | 89.92 | 1.36 | 122.31 | 2.05 | 0.79 | 0.79 |
| 22.89 | 107.14 | 87.93 | 1.37 | 120.57 | 2.06 | 0.78 | 0.78 |
| 22.90 | 104.88 | 85.98 | 1.38 | 118.82 | 2.07 | 0.78 | 0.78 |
| 22.94 | 110.11 | 90.42 | 1.34 | 121.26 | 2.04 | 0.78 | 0.78 |
| 23.00 | 112.36 | 92.21 | 1.32 | 122.07 | 2.02 | 0.79 | 0.79 |
| 23.08 | 118.94 | 97.70 | 1.29 | 126.15 | 1.98 | 0.79 | 0.79 |
| 23.13 | 127.04 | 104.57 | 1.26 | 131.91 | 1.94 | 0.80 | 0.80 |
| 23.20 | 134.05 | 110.43 | 1.24 | 136.83 | 1.90 | 0.81 | 0.81 |
| 23.27 | 137.05 | 112.81 | 1.23 | 138.66 | 1.89 | 0.81 | 0.81 |
| 23.33 | 135.57 | 111.40 | 1.23 | 136.90 | 1.89 | 0.81 | 0.81 |
| 23.42 | 131.55 | 107.76 | 1.23 | 132.83 | 1.89 | 0.80 | 0.80 |
| 23.48 | 126.94 | 103.73 | 1.24 | 128.30 | 1.90 | 0.80 | 0.80 |
| 23.57 | 123.16 | 100.30 | 1.24 | 124.68 | 1.91 | 0.79 | 0.79 |
| 23.61 | 121.20 | 98.52 | 1.25 | 122.97 | 1.92 | 0.79 | 0.79 |
| 23.66 | 121.50 | 98.62 | 1.25 | 123.25 | 1.92 | 0.79 | 0.79 |
| 23.73 | 124.04 | 100.52 | 1.25 | 125.44 | 1.92 | 0.79 | 0.79 |
| 23.80 | 127.95 | 103.59 | 1.24 | 128.73 | 1.91 | 0.80 | 0.80 |
| 23.85 | 131.96 | 106.79 | 1.24 | 132.25 | 1.90 | 0.80 | 0.80 |
| 23.94 | 134.80 | 108.87 | 1.24 | 134.50 | 1.90 | 0.81 | 0.81 |
| 24.00 | 135.88 | 109.59 | 1.24 | 135.41 | 1.90 | 0.81 | 0.81 |
| 24.09 | 135.37 | 108.86 | 1.24 | 134.81 | 1.90 | 0.81 | 0.81 |
| 24.16 | 133.34 | 106.93 | 1.24 | 133.09 | 1.91 | 0.80 | 0.80 |
| 24.24 | 130.04 | 104.25 | 1.23 | 128.02 | 1.89 | 0.80 | 0.80 |
| 24.33 | 125.79 | 100.75 | 1.21 | 122.05 | 1.86 | 0.79 | 0.79 |
| 24.43 | 121.10 | 96.90 | 1.19 | 115.53 | 1.84 | 0.78 | 0.78 |
| 24.52 | 114.28 | 90.85 | 1.23 | 111.31 | 1.88 | 0.77 | 0.77 |
| 24.58 | 108.90 | 86.13 | 1.25 | 107.54 | 1.92 | 0.76 | 0.76 |
| 24.59 | 104.52 | 82.40 | 1.27 | 104.41 | 1.95 | 0.76 | 0.76 |
| 24.63 | 104.21 | 82.05 | 1.27 | 104.24 | 1.95 | 0.76 | 0.76 |
| 24.68 | 103.45 | 81.24 | 1.28 | 103.96 | 1.96 | 0.76 | 0.76 |
| 24.77 | 102.47 | 80.14 | 1.29 | 103.52 | 1.98 | 0.75 | 0.75 |
| 24.82 | 100.31 | 78.15 | 1.31 | 102.59 | 2.01 | 0.75 | 0.75 |
| 24.92 | 97.85 | 75.83 | 1.34 | 101.32 | 2.03 | 0.75 | 0.75 |
| 25.01 | 95.22 | 73.42 | 1.36 | 100.09 | 2.06 | 0.75 | 0.75 |
| 25.06 | 92.38 | 70.94 | 1.39 | 98.75 | 2.08 | 0.75 | 0.75 |
| 25.16 | 89.48 | 68.36 | 1.42 | 97.29 | 2.10 | 0.74 | 0.74 |
| 25.25 | 86.51 | 65.75 | 1.46 | 95.92 | 2.13 | 0.74 | 0.74 |
| 25.30 | 83.55 | 63.24 | 1.50 | 94.77 | 2.15 | 0.74 | 0.74 |
| 25.41 | 80.44 | 60.52 | 1.55 | 93.81 | 2.17 | 0.74 | 0.74 |
| 25.49 | 77.27 | 57.80 | 1.61 | 93.24 | 2.20 | 0.74 | 0.74 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 25.55 | 73.97 | 55.02 | 1.70 | 93.42 | 2.23 | 0.74 | 0.74 |
| 25.64 | 70.59 | 52.13 | 1.81 | 94.24 | 2.27 | 0.74 | 0.74 |
| 25.70 | 67.02 | 49.15 | 1.95 | 95.94 | 2.31 | 0.74 | 0.74 |
| 25.79 | 63.24 | 46.00 | 2.13 | 97.75 | 2.35 | 0.74 | 0.74 |
| 25.89 | 58.92 | 42.45 | 2.35 | 99.94 | 2.40 | 0.75 | 0.75 |
| 25.94 | 54.26 | 38.75 | 2.63 | 101.97 | 2.45 | 0.75 | 0.75 |
| 26.02 | 49.37 | 34.89 | 2.95 | 102.81 | 2.50 | 0.75 | 0.75 |
| 26.12 | 45.05 | 31.51 | 3.23 | 101.92 | 2.54 | 0.75 | 0.75 |
| 26.17 | 40.83 | 28.31 | 3.52 | 99.58 | 2.57 | 0.75 | 0.75 |
| 26.28 | 37.02 | 25.37 | 3.84 | 97.30 | 2.61 | 0.74 | 0.74 |
| 26.36 | 33.31 | 22.57 | 4.17 | 94.10 | 2.65 | 0.74 | 0.74 |
| 26.45 | 29.43 | 19.65 | 4.69 | 92.22 | 2.70 | 0.73 | 0.73 |
| 26.50 | 24.94 | 16.31 | 5.63 | 91.86 | 2.78 | 0.73 | 0.73 |
| 26.61 | 20.15 | 12.75 | 7.37 | 93.95 | 2.91 | 0.74 | 0.74 |
| 26.70 | 15.97 | 9.43 | 10.10 | 95.23 | 3.07 | 0.35 | 0.67 |
| 26.77 | 12.97 | 7.45 | 12.95 | 96.46 | 3.21 | 0.35 | 0.53 |
| 26.85 | 11.85 | 6.70 | 14.12 | 94.58 | 3.26 | 0.34 | 0.48 |
| 26.94 | 11.45 | 6.41 | 14.29 | 91.60 | 3.27 | 0.29 | 0.46 |
| 27.04 | 11.95 | 6.71 | 13.15 | 88.25 | 3.22 | 0.28 | 0.48 |
| 27.14 | 12.22 | 6.86 | 12.68 | 86.95 | 3.20 | 0.27 | 0.49 |
| 27.23 | 12.90 | 7.27 | 11.66 | 84.75 | 3.15 | 0.26 | 0.52 |
| 27.28 | 13.22 | 7.46 | 11.13 | 83.02 | 3.13 | 0.24 | 0.53 |
| 27.29 | 13.29 | 7.50 | 10.38 | 77.81 | 3.09 | 0.24 | 0.54 |
| 27.38 | 13.29 | 7.47 | 9.96 | 74.44 | 3.07 | 0.16 | 0.53 |
| 27.48 | 13.27 | 7.43 | 9.89 | 73.48 | 3.06 | 0.18 | 0.53 |
| 27.57 | 13.27 | 7.41 | 10.67 | 79.00 | 3.10 | 0.22 | 0.53 |
| 27.64 | 13.30 | 7.41 | 11.31 | 83.76 | 3.13 | 0.26 | 0.53 |
| 27.65 | 13.44 | 7.49 | 12.08 | 90.43 | 3.17 | 0.27 | 0.53 |
| 27.74 | 14.52 | 8.14 | 11.82 | 96.17 | 3.16 | 0.36 | 0.58 |
| 27.80 | 16.91 | 9.63 | 10.69 | 102.90 | 3.10 | 0.41 | 0.69 |
| 27.90 | 19.17 | 11.00 | 9.59 | 105.58 | 3.05 | 0.48 | 0.79 |
| 27.99 | 19.34 | 11.07 | 9.67 | 106.99 | 3.05 | 0.48 | 0.79 |
| 28.07 | 17.12 | 9.65 | 10.91 | 105.31 | 3.11 | 0.45 | 0.69 |
| 28.16 | 14.45 | 7.96 | 12.63 | 100.58 | 3.20 | 0.39 | 0.57 |
| 28.25 | 12.53 | 6.75 | 13.86 | 93.48 | 3.25 | 0.31 | 0.48 |
| 28.34 | 11.52 | 6.10 | 14.13 | 86.20 | 3.26 | 0.25 | 0.44 |
| 28.44 | 11.01 | 5.76 | 14.19 | 81.77 | 3.26 | 0.21 | 0.41 |
| 28.53 | 10.84 | 5.64 | 14.27 | 80.51 | 3.26 | 0.21 | 0.40 |
| 28.62 | 11.75 | 6.17 | 14.04 | 86.70 | 3.26 | 0.23 | 0.44 |
| 28.76 | 14.21 | 7.64 | 12.54 | 95.81 | 3.19 | 0.35 | 0.55 |
| 28.86 | 17.65 | 9.69 | 11.11 | 107.72 | 3.12 | 0.45 | 0.69 |
| 28.96 | 20.32 | 11.26 | 10.51 | 118.36 | 3.09 | 0.58 | 0.80 |
| 29.08 | 21.30 | 11.80 | 11.10 | 130.98 | 3.12 | 0.70 | 0.84 |
| 29.19 | 22.07 | 12.21 | 11.60 | 141.58 | 3.15 | 0.86 | 0.87 |
| 29.29 | 27.50 | 15.40 | 8.64 | 133.06 | 2.99 | 0.80 | 0.80 |
| 29.39 | 40.70 | 25.08 | 5.15 | 129.21 | 2.74 | 0.80 | 0.80 |
| 29.50 | 57.67 | 36.81 | 3.37 | 124.06 | 2.55 | 0.79 | 0.79 |
| 29.63 | 66.88 | 42.86 | 3.19 | 136.79 | 2.53 | 0.81 | 0.81 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 29.65 | 70.22 | 45.09 | 3.13 | 141.18 | 2.52 | 0.81 | 0.81 |
| 29.66 | 71.00 | 45.61 | 3.10 | 141.50 | 2.52 | 0.82 | 0.82 |
| 29.72 | 73.53 | 47.34 | 2.95 | 139.57 | 2.50 | 0.81 | 0.81 |
| 29.80 | 77.81 | 50.31 | 2.70 | 135.94 | 2.46 | 0.81 | 0.81 |
| 29.85 | 89.49 | 58.79 | 2.17 | 127.49 | 2.36 | 0.79 | 0.79 |
| 29.94 | 111.58 | 75.08 | 1.62 | 121.89 | 2.20 | 0.79 | 0.79 |
| 30.00 | 135.50 | 93.20 | 1.37 | 127.60 | 2.06 | 0.79 | 0.79 |
| 30.05 | 152.98 | 106.83 | 1.28 | 136.43 | 1.96 | 0.81 | 0.81 |
| 30.14 | 162.60 | 114.57 | 1.23 | 140.95 | 1.89 | 0.81 | 0.81 |
| 30.19 | 167.56 | 118.78 | 1.20 | 142.08 | 1.84 | 0.82 | 0.82 |
| 30.24 | 169.61 | 120.45 | 1.18 | 142.19 | 1.83 | 0.82 | 0.82 |
| 30.29 | 169.68 | 120.31 | 1.18 | 142.38 | 1.83 | 0.82 | 0.82 |
| 30.38 | 167.72 | 118.51 | 1.19 | 141.39 | 1.84 | 0.82 | 0.82 |
| 30.43 | 164.79 | 116.05 | 1.20 | 139.76 | 1.85 | 0.81 | 0.81 |
| 30.48 | 161.62 | 113.47 | 1.21 | 137.67 | 1.87 | 0.81 | 0.81 |
| 30.54 | 159.16 | 111.46 | 1.22 | 135.86 | 1.87 | 0.81 | 0.81 |
| 30.62 | 158.35 | 110.69 | 1.22 | 134.98 | 1.87 | 0.81 | 0.81 |
| 30.67 | 157.77 | 110.16 | 1.22 | 134.34 | 1.87 | 0.80 | 0.80 |
| 30.72 | 158.55 | 110.67 | 1.22 | 134.61 | 1.87 | 0.81 | 0.81 |
| 30.76 | 159.46 | 111.32 | 1.21 | 134.89 | 1.86 | 0.81 | 0.81 |
| 30.86 | 162.06 | 113.16 | 1.20 | 135.92 | 1.85 | 0.81 | 0.81 |
| 30.91 | 165.09 | 115.46 | 1.19 | 137.26 | 1.84 | 0.81 | 0.81 |
| 30.95 | 168.94 | 118.37 | 1.17 | 138.94 | 1.82 | 0.81 | 0.81 |
| 31.03 | 173.83 | 122.03 | 1.15 | 140.71 | 1.80 | 0.81 | 0.81 |
| 31.10 | 179.36 | 126.19 | 1.13 | 142.33 | 1.78 | 0.82 | 0.82 |
| 31.15 | 185.03 | 130.44 | 1.10 | 144.07 | 1.76 | 0.82 | 0.82 |
| 31.20 | 189.66 | 133.76 | 1.09 | 146.05 | 1.75 | 0.82 | 0.82 |
| 31.26 | 192.52 | 135.69 | 1.09 | 147.81 | 1.75 | 0.82 | 0.82 |
| 31.34 | 186.22 | 130.42 | 1.13 | 147.23 | 1.78 | 0.82 | 0.82 |
| 31.37 | 184.63 | 129.08 | 1.14 | 146.99 | 1.79 | 0.82 | 0.82 |
| 31.38 | 181.39 | 126.56 | 1.15 | 145.70 | 1.80 | 0.82 | 0.82 |
| 31.43 | 184.63 | 129.02 | 1.13 | 146.17 | 1.78 | 0.82 | 0.82 |
| 31.47 | 179.33 | 124.92 | 1.15 | 143.44 | 1.80 | 0.82 | 0.82 |
| 31.55 | 171.64 | 118.91 | 1.17 | 139.35 | 1.82 | 0.81 | 0.81 |
| 31.59 | 160.34 | 110.19 | 1.21 | 132.93 | 1.86 | 0.80 | 0.80 |
| 31.66 | 147.76 | 100.47 | 1.24 | 124.83 | 1.91 | 0.79 | 0.79 |
| 31.73 | 135.75 | 91.20 | 1.28 | 116.80 | 1.97 | 0.78 | 0.78 |
| 31.78 | 125.08 | 83.04 | 1.33 | 110.36 | 2.02 | 0.77 | 0.77 |
| 31.84 | 115.64 | 75.76 | 1.40 | 106.34 | 2.09 | 0.76 | 0.76 |
| 31.93 | 107.23 | 69.27 | 1.51 | 104.84 | 2.16 | 0.76 | 0.76 |
| 31.98 | 100.42 | 64.06 | 1.66 | 106.04 | 2.22 | 0.76 | 0.76 |
| 32.02 | 98.18 | 62.19 | 1.75 | 108.88 | 2.25 | 0.76 | 0.76 |
| 32.09 | 97.00 | 61.07 | 1.83 | 111.87 | 2.27 | 0.77 | 0.77 |
| 32.16 | 98.89 | 62.18 | 1.83 | 113.86 | 2.27 | 0.77 | 0.77 |
| 32.22 | 100.29 | 63.04 | 1.82 | 114.52 | 2.27 | 0.77 | 0.77 |
| 32.27 | 103.49 | 65.22 | 1.76 | 114.53 | 2.25 | 0.77 | 0.77 |
| 32.34 | 106.02 | 66.91 | 1.71 | 114.38 | 2.24 | 0.77 | 0.77 |
| 32.42 | 108.89 | 68.85 | 1.66 | 114.11 | 2.22 | 0.77 | 0.77 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 32.46 | 113.04 | 71.82 | 1.58 | 113.62 | 2.19 | 0.77 | 0.77 |
| 32.54 | 117.73 | 75.15 | 1.51 | 113.25 | 2.15 | 0.77 | 0.77 |
| 32.60 | 121.74 | 78.23 | 1.43 | 112.00 | 2.11 | 0.77 | 0.77 |
| 32.67 | 124.81 | 80.60 | 1.38 | 111.53 | 2.07 | 0.77 | 0.77 |
| 32.75 | 127.51 | 82.59 | 1.35 | 111.85 | 2.05 | 0.77 | 0.77 |
| 32.81 | 130.38 | 84.43 | 1.35 | 113.95 | 2.05 | 0.77 | 0.77 |
| 32.89 | 133.38 | 86.29 | 1.35 | 116.21 | 2.04 | 0.78 | 0.78 |
| 32.94 | 129.47 | 83.21 | 1.38 | 114.84 | 2.07 | 0.77 | 0.77 |
| 32.95 | 131.02 | 84.23 | 1.38 | 116.07 | 2.07 | 0.78 | 0.78 |
| 33.00 | 132.88 | 85.36 | 1.38 | 117.56 | 2.07 | 0.78 | 0.78 |
| 33.06 | 141.08 | 91.06 | 1.34 | 122.40 | 2.04 | 0.79 | 0.79 |
| 33.11 | 142.26 | 91.66 | 1.35 | 123.66 | 2.04 | 0.79 | 0.79 |
| 33.20 | 141.21 | 90.60 | 1.36 | 123.53 | 2.06 | 0.79 | 0.79 |
| 33.25 | 139.02 | 88.78 | 1.39 | 123.06 | 2.08 | 0.79 | 0.79 |
| 33.34 | 137.03 | 87.07 | 1.41 | 122.48 | 2.09 | 0.79 | 0.79 |
| 33.38 | 136.69 | 86.68 | 1.42 | 122.68 | 2.10 | 0.79 | 0.79 |
| 33.48 | 138.41 | 87.63 | 1.41 | 123.78 | 2.10 | 0.79 | 0.79 |
| 33.58 | 141.92 | 89.83 | 1.40 | 125.79 | 2.09 | 0.79 | 0.79 |
| 33.63 | 146.74 | 93.05 | 1.38 | 128.81 | 2.07 | 0.80 | 0.80 |
| 33.73 | 152.41 | 96.75 | 1.37 | 132.15 | 2.06 | 0.80 | 0.80 |
| 33.82 | 158.96 | 101.09 | 1.35 | 136.16 | 2.04 | 0.81 | 0.81 |
| 33.87 | 165.74 | 105.66 | 1.33 | 140.58 | 2.03 | 0.81 | 0.81 |
| 33.96 | 172.72 | 110.29 | 1.32 | 145.13 | 2.01 | 0.82 | 0.82 |
| 34.02 | 180.58 | 115.54 | 1.30 | 150.66 | 2.00 | 0.83 | 0.83 |
| 34.11 | 190.03 | 121.77 | 1.29 | 157.32 | 1.98 | 0.84 | 0.84 |
| 34.18 | 200.49 | 128.68 | 1.28 | 164.99 | 1.97 | 0.85 | 0.85 |
| 34.26 | 210.44 | 135.11 | 1.28 | 172.52 | 1.96 | 0.86 | 0.86 |
| 34.35 | 219.45 | 140.77 | 1.28 | 179.50 | 1.96 | 0.86 | 0.86 |
| 34.44 | 227.51 | 145.83 | 1.27 | 185.53 | 1.95 | 0.87 | 0.87 |
| 34.49 | 233.96 | 150.02 | 1.27 | 190.23 | 1.95 | 0.88 | 0.88 |
| 34.59 | 237.94 | 152.42 | 1.27 | 192.83 | 1.94 | 0.88 | 0.88 |
| 34.69 | 240.00 | 153.47 | 1.26 | 194.12 | 1.94 | 0.88 | 0.88 |
| 34.76 | 240.94 | 153.92 | 1.26 | 194.53 | 1.94 | 0.88 | 0.88 |
| 34.83 | 240.60 | 153.43 | 1.26 | 194.02 | 1.94 | 0.88 | 0.88 |
| 34.93 | 237.97 | 151.43 | 1.26 | 191.54 | 1.94 | 0.88 | 0.88 |
| 35.02 | 233.82 | 148.39 | 1.27 | 188.08 | 1.95 | 0.87 | 0.87 |
| 35.12 | 229.78 | 145.60 | 1.27 | 184.23 | 1.94 | 0.87 | 0.87 |
| 35.22 | 226.47 | 143.26 | 1.26 | 181.13 | 1.94 | 0.87 | 0.87 |
| 35.30 | 222.22 | 140.29 | 1.26 | 177.46 | 1.94 | 0.86 | 0.86 |
| 35.38 | 208.55 | 130.48 | 1.29 | 168.21 | 1.98 | 0.85 | 0.85 |
| 35.43 | 198.10 | 123.09 | 1.31 | 161.35 | 2.00 | 0.84 | 0.84 |
| 35.46 | 189.40 | 116.99 | 1.33 | 155.80 | 2.03 | 0.83 | 0.83 |
| 35.51 | 187.20 | 115.53 | 1.33 | 153.78 | 2.03 | 0.83 | 0.83 |
| 35.56 | 176.78 | 108.45 | 1.35 | 146.76 | 2.05 | 0.82 | 0.82 |
| 35.66 | 163.52 | 99.31 | 1.39 | 138.53 | 2.08 | 0.81 | 0.81 |
| 35.70 | 148.20 | 89.01 | 1.46 | 130.03 | 2.13 | 0.80 | 0.80 |
| 35.80 | 131.87 | 77.90 | 1.59 | 123.66 | 2.19 | 0.79 | 0.79 |
| 35.89 | 111.32 | 64.17 | 1.87 | 119.95 | 2.28 | 0.78 | 0.78 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 35.96 | 89.09 | 49.72 | 2.43 | 120.81 | 2.41 | 0.78 | 0.78 |
| 36.04 | 68.24 | 36.73 | 3.28 | 120.37 | 2.54 | 0.78 | 0.78 |
| 36.14 | 52.15 | 27.04 | 4.33 | 117.01 | 2.66 | 0.78 | 0.78 |
| 36.19 | 43.48 | 22.01 | 5.03 | 110.69 | 2.73 | 0.77 | 0.77 |
| 36.28 | 40.51 | 20.23 | 5.44 | 110.05 | 2.77 | 0.77 | 0.77 |
| 36.33 | 40.51 | 20.24 | 5.35 | 108.32 | 2.76 | 0.76 | 0.76 |
| 36.42 | 42.30 | 21.24 | 5.09 | 108.08 | 2.74 | 0.76 | 0.76 |
| 36.48 | 45.97 | 23.38 | 4.59 | 107.27 | 2.69 | 0.76 | 0.76 |
| 36.52 | 51.03 | 26.20 | 4.31 | 112.95 | 2.66 | 0.77 | 0.77 |
| 36.62 | 54.10 | 27.78 | 4.31 | 119.67 | 2.66 | 0.78 | 0.78 |
| 36.68 | 54.07 | 27.55 | 4.59 | 126.59 | 2.69 | 0.79 | 0.79 |
| 36.77 | 52.82 | 26.73 | 4.79 | 128.11 | 2.71 | 0.80 | 0.80 |
| 36.86 | 54.64 | 27.76 | 4.56 | 126.60 | 2.69 | 0.79 | 0.79 |
| 36.90 | 67.67 | 35.75 | 3.22 | 115.19 | 2.53 | 0.77 | 0.77 |
| 37.00 | 98.14 | 55.13 | 1.87 | 103.13 | 2.29 | 0.75 | 0.75 |
| 37.10 | 140.34 | 83.45 | 1.35 | 112.56 | 2.04 | 0.77 | 0.77 |
| 37.20 | 182.54 | 113.15 | 1.21 | 136.84 | 1.86 | 0.81 | 0.81 |
| 37.29 | 213.04 | 135.23 | 1.09 | 147.30 | 1.75 | 0.82 | 0.82 |
| 37.39 | 232.34 | 149.01 | 1.00 | 149.01 | 1.70 | 0.83 | 0.83 |
| 37.49 | 241.91 | 155.00 | 1.00 | 155.00 | 1.70 | 0.83 | 0.83 |
| 37.53 | 245.57 | 156.74 | 1.02 | 160.20 | 1.72 | 0.84 | 0.84 |
| 37.58 | 246.07 | 156.33 | 1.06 | 165.44 | 1.73 | 0.85 | 0.85 |
| 37.62 | 247.84 | 156.88 | 1.08 | 169.66 | 1.75 | 0.85 | 0.85 |
| 37.69 | 250.56 | 157.82 | 1.11 | 175.10 | 1.77 | 0.86 | 0.86 |
| 37.77 | 253.53 | 158.95 | 1.13 | 179.78 | 1.78 | 0.86 | 0.86 |
| 37.82 | 254.98 | 159.10 | 1.15 | 183.39 | 1.80 | 0.87 | 0.87 |
| 37.87 | 254.84 | 158.42 | 1.17 | 184.85 | 1.81 | 0.87 | 0.87 |
| 37.91 | 252.72 | 156.44 | 1.18 | 184.82 | 1.83 | 0.87 | 0.87 |
| 37.97 | 248.23 | 152.87 | 1.20 | 183.06 | 1.85 | 0.87 | 0.87 |
| 38.06 | 241.92 | 148.07 | 1.21 | 179.59 | 1.87 | 0.86 | 0.86 |
| 38.10 | 235.58 | 143.53 | 1.22 | 175.74 | 1.88 | 0.86 | 0.86 |
| 38.17 | 230.89 | 140.30 | 1.23 | 172.34 | 1.89 | 0.86 | 0.86 |
| 38.25 | 228.09 | 138.57 | 1.22 | 169.66 | 1.88 | 0.85 | 0.85 |
| 38.35 | 225.79 | 137.24 | 1.22 | 167.11 | 1.87 | 0.85 | 0.85 |
| 38.40 | 223.43 | 135.86 | 1.21 | 164.83 | 1.87 | 0.85 | 0.85 |
| 38.46 | 221.65 | 134.68 | 1.21 | 163.21 | 1.86 | 0.84 | 0.84 |
| 38.54 | 220.87 | 134.09 | 1.21 | 162.26 | 1.86 | 0.84 | 0.84 |
| 38.60 | 220.87 | 134.14 | 1.21 | 161.69 | 1.86 | 0.84 | 0.84 |
| 38.69 | 222.22 | 135.09 | 1.20 | 161.77 | 1.85 | 0.84 | 0.84 |
| 38.74 | 224.92 | 137.05 | 1.19 | 162.53 | 1.83 | 0.84 | 0.84 |
| 38.83 | 227.85 | 138.91 | 1.18 | 163.73 | 1.82 | 0.84 | 0.84 |
| 38.88 | 229.20 | 139.97 | 1.17 | 163.54 | 1.81 | 0.84 | 0.84 |
| 38.97 | 228.76 | 139.65 | 1.16 | 162.47 | 1.81 | 0.84 | 0.84 |
| 39.02 | 227.25 | 138.83 | 1.16 | 160.45 | 1.80 | 0.84 | 0.84 |
| 39.11 | 224.44 | 136.82 | 1.16 | 158.54 | 1.81 | 0.84 | 0.84 |
| 39.16 | 218.51 | 132.80 | 1.17 | 154.99 | 1.81 | 0.83 | 0.83 |
| 39.23 | 205.48 | 123.73 | 1.20 | 148.10 | 1.85 | 0.82 | 0.82 |
| 39.24 | 200.81 | 120.69 | 1.20 | 145.08 | 1.85 | 0.82 | 0.82 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 39.28 | 198.62 | 119.29 | 1.20 | 143.39 | 1.85 | 0.82 | 0.82 |
| 39.32 | 201.93 | 121.86 | 1.18 | 144.08 | 1.83 | 0.82 | 0.82 |
| 39.39 | 194.55 | 116.84 | 1.20 | 139.67 | 1.84 | 0.81 | 0.81 |
| 39.47 | 183.96 | 109.44 | 1.22 | 133.48 | 1.88 | 0.80 | 0.80 |
| 39.54 | 171.48 | 100.68 | 1.25 | 125.99 | 1.92 | 0.79 | 0.79 |
| 39.62 | 158.42 | 91.63 | 1.29 | 117.99 | 1.98 | 0.78 | 0.78 |
| 39.71 | 145.73 | 82.95 | 1.33 | 110.70 | 2.03 | 0.77 | 0.77 |
| 39.76 | 134.50 | 75.46 | 1.39 | 105.08 | 2.08 | 0.76 | 0.76 |
| 39.85 | 125.32 | 69.36 | 1.46 | 101.34 | 2.13 | 0.75 | 0.75 |
| 39.90 | 117.87 | 64.48 | 1.53 | 98.95 | 2.17 | 0.75 | 0.75 |
| 40.00 | 111.05 | 60.00 | 1.63 | 97.53 | 2.20 | 0.74 | 0.74 |
| 40.06 | 104.71 | 55.91 | 1.73 | 96.96 | 2.24 | 0.74 | 0.74 |
| 40.15 | 98.67 | 52.00 | 1.87 | 97.18 | 2.28 | 0.74 | 0.74 |
| 40.21 | 92.83 | 48.24 | 2.05 | 98.86 | 2.33 | 0.75 | 0.75 |
| 40.29 | 86.59 | 44.24 | 2.31 | 102.19 | 2.39 | 0.75 | 0.75 |
| 40.35 | 79.68 | 39.85 | 2.72 | 108.27 | 2.46 | 0.76 | 0.76 |
| 40.43 | 72.22 | 35.37 | 3.16 | 111.81 | 2.53 | 0.77 | 0.77 |
| 40.52 | 63.85 | 30.51 | 3.76 | 114.58 | 2.60 | 0.77 | 0.77 |
| 40.58 | 55.21 | 25.70 | 4.47 | 115.00 | 2.68 | 0.77 | 0.77 |
| 40.67 | 46.88 | 21.09 | 5.54 | 116.83 | 2.77 | 0.78 | 0.78 |
| 40.77 | 41.63 | 18.24 | 6.45 | 117.65 | 2.85 | 0.78 | 0.78 |
| 40.84 | 39.14 | 16.87 | 6.99 | 117.99 | 2.89 | 0.78 | 0.78 |
| 40.89 | 42.28 | 18.55 | 6.27 | 116.25 | 2.83 | 0.78 | 0.78 |
| 40.94 | 49.75 | 22.62 | 4.92 | 111.31 | 2.72 | 0.77 | 0.77 |
| 41.03 | 61.46 | 29.20 | 3.53 | 103.18 | 2.57 | 0.75 | 0.75 |
| 41.08 | 73.03 | 35.94 | 2.68 | 96.47 | 2.45 | 0.74 | 0.74 |
| 41.14 | 82.03 | 41.30 | 2.24 | 92.51 | 2.37 | 0.73 | 0.73 |
| 41.22 | 87.70 | 44.68 | 2.04 | 90.97 | 2.33 | 0.73 | 0.73 |
| 41.28 | 90.43 | 46.24 | 1.97 | 91.29 | 2.31 | 0.73 | 0.73 |
| 41.33 | 91.99 | 46.96 | 1.99 | 93.52 | 2.32 | 0.74 | 0.74 |
| 41.42 | 93.64 | 47.61 | 2.04 | 97.02 | 2.33 | 0.74 | 0.74 |
| 41.47 | 97.01 | 49.31 | 2.04 | 100.81 | 2.33 | 0.75 | 0.75 |
| 41.52 | 104.03 | 53.17 | 1.96 | 104.48 | 2.31 | 0.76 | 0.76 |
| 41.62 | 115.47 | 59.72 | 1.81 | 107.92 | 2.27 | 0.76 | 0.76 |
| 41.67 | 130.01 | 68.21 | 1.66 | 112.91 | 2.22 | 0.77 | 0.77 |
| 41.76 | 144.45 | 76.74 | 1.54 | 118.23 | 2.17 | 0.78 | 0.78 |
| 41.82 | 156.39 | 83.80 | 1.48 | 123.75 | 2.14 | 0.79 | 0.79 |
| 41.90 | 165.43 | 89.14 | 1.44 | 128.02 | 2.11 | 0.80 | 0.80 |
| 41.99 | 171.57 | 92.73 | 1.41 | 131.05 | 2.10 | 0.80 | 0.80 |
| 42.05 | 174.81 | 94.61 | 1.40 | 132.58 | 2.09 | 0.80 | 0.80 |
| 42.15 | 175.22 | 94.64 | 1.40 | 132.77 | 2.09 | 0.80 | 0.80 |
| 42.23 | 173.33 | 93.24 | 1.42 | 132.06 | 2.10 | 0.80 | 0.80 |
| 42.30 | 169.55 | 90.73 | 1.44 | 130.51 | 2.11 | 0.80 | 0.80 |
| 42.38 | 163.64 | 86.97 | 1.47 | 127.88 | 2.13 | 0.80 | 0.80 |
| 42.48 | 153.79 | 80.87 | 1.53 | 123.60 | 2.16 | 0.79 | 0.79 |
| 42.57 | 141.98 | 73.69 | 1.62 | 119.15 | 2.20 | 0.78 | 0.78 |
| 42.64 | 129.97 | 66.53 | 1.73 | 115.28 | 2.24 | 0.78 | 0.78 |
| 42.72 | 121.20 | 61.42 | 1.82 | 111.72 | 2.27 | 0.77 | 0.77 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 42.82 | 114.72 | 57.72 | 1.88 | 108.24 | 2.29 | 0.76 | 0.76 |
| 42.90 | 110.03 | 55.08 | 1.91 | 105.42 | 2.30 | 0.76 | 0.76 |
| 42.97 | 106.05 | 52.74 | 1.98 | 104.32 | 2.31 | 0.76 | 0.76 |
| 43.06 | 102.31 | 50.43 | 2.08 | 104.69 | 2.34 | 0.76 | 0.76 |
| 43.15 | 98.76 | 48.44 | 2.11 | 102.43 | 2.35 | 0.75 | 0.75 |
| 43.20 | 97.75 | 48.00 | 2.07 | 99.54 | 2.34 | 0.75 | 0.75 |
| 43.30 | 104.19 | 51.99 | 1.84 | 95.67 | 2.28 | 0.74 | 0.74 |
| 43.40 | 119.88 | 61.38 | 1.58 | 97.12 | 2.19 | 0.74 | 0.74 |
| 43.48 | 132.43 | 68.91 | 1.47 | 100.97 | 2.13 | 0.75 | 0.75 |
| 43.51 | 139.11 | 72.90 | 1.43 | 103.89 | 2.10 | 0.76 | 0.76 |
| 43.52 | 146.23 | 77.22 | 1.39 | 107.23 | 2.08 | 0.76 | 0.76 |
| 43.56 | 160.13 | 85.83 | 1.33 | 114.20 | 2.03 | 0.77 | 0.77 |
| 43.61 | 178.86 | 97.60 | 1.28 | 124.81 | 1.96 | 0.79 | 0.79 |
| 43.67 | 193.23 | 106.74 | 1.25 | 133.29 | 1.92 | 0.80 | 0.80 |
| 43.72 | 206.01 | 115.04 | 1.22 | 140.56 | 1.88 | 0.81 | 0.81 |
| 43.80 | 216.51 | 121.88 | 1.20 | 145.95 | 1.85 | 0.82 | 0.82 |
| 43.85 | 224.74 | 127.26 | 1.18 | 149.84 | 1.82 | 0.83 | 0.83 |
| 43.90 | 231.25 | 131.51 | 1.16 | 152.56 | 1.81 | 0.83 | 0.83 |
| 43.94 | 236.38 | 134.87 | 1.14 | 154.37 | 1.79 | 0.83 | 0.83 |
| 43.99 | 239.82 | 137.13 | 1.13 | 155.28 | 1.78 | 0.83 | 0.83 |
| 44.08 | 241.54 | 138.11 | 1.13 | 155.65 | 1.78 | 0.83 | 0.83 |
| 44.14 | 241.51 | 137.71 | 1.14 | 156.49 | 1.79 | 0.84 | 0.84 |
| 44.22 | 240.40 | 136.41 | 1.15 | 157.19 | 1.80 | 0.84 | 0.84 |
| 44.28 | 238.31 | 134.50 | 1.17 | 157.37 | 1.82 | 0.84 | 0.84 |
| 44.33 | 235.67 | 132.35 | 1.18 | 156.78 | 1.83 | 0.84 | 0.84 |
| 44.40 | 232.27 | 129.52 | 1.20 | 155.80 | 1.85 | 0.83 | 0.83 |
| 44.48 | 231.30 | 128.25 | 1.22 | 155.90 | 1.87 | 0.83 | 0.83 |
| 44.52 | 228.57 | 125.64 | 1.24 | 155.24 | 1.90 | 0.83 | 0.83 |
| 44.61 | 230.02 | 126.41 | 1.23 | 155.88 | 1.89 | 0.83 | 0.83 |
| 44.72 | 231.52 | 127.03 | 1.23 | 156.70 | 1.90 | 0.84 | 0.84 |
| 44.77 | 236.14 | 130.05 | 1.22 | 159.04 | 1.88 | 0.84 | 0.84 |
| 44.91 | 237.86 | 130.46 | 1.23 | 160.27 | 1.89 | 0.84 | 0.84 |
| 44.95 | 231.69 | 126.16 | 1.24 | 156.88 | 1.91 | 0.84 | 0.84 |
| 45.02 | 227.41 | 123.19 | 1.25 | 154.33 | 1.92 | 0.83 | 0.83 |
| 45.04 | 198.97 | 104.88 | 1.32 | 138.44 | 2.01 | 0.81 | 0.81 |
| 45.06 | 203.49 | 107.81 | 1.30 | 140.63 | 2.00 | 0.81 | 0.81 |
| 45.11 | 208.45 | 111.04 | 1.29 | 143.03 | 1.98 | 0.82 | 0.82 |
| 45.15 | 239.96 | 131.64 | 1.22 | 160.49 | 1.87 | 0.84 | 0.84 |
| 45.21 | 246.91 | 136.23 | 1.20 | 163.81 | 1.85 | 0.84 | 0.84 |
| 45.25 | 252.44 | 139.80 | 1.19 | 166.43 | 1.84 | 0.85 | 0.85 |
| 45.30 | 256.29 | 142.11 | 1.18 | 168.34 | 1.83 | 0.85 | 0.85 |
| 45.35 | 258.04 | 143.02 | 1.18 | 169.35 | 1.83 | 0.85 | 0.85 |
| 45.41 | 258.42 | 143.02 | 1.19 | 169.64 | 1.83 | 0.85 | 0.85 |
| 45.49 | 257.00 | 141.89 | 1.19 | 168.87 | 1.84 | 0.85 | 0.85 |
| 45.55 | 254.13 | 139.97 | 1.19 | 167.24 | 1.84 | 0.85 | 0.85 |
| 45.63 | 249.51 | 136.90 | 1.20 | 164.52 | 1.85 | 0.85 | 0.85 |
| 45.69 | 243.67 | 133.19 | 1.21 | 161.09 | 1.86 | 0.84 | 0.84 |
| 45.78 | 236.62 | 128.61 | 1.22 | 156.88 | 1.88 | 0.84 | 0.84 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 45.84 | 228.05 | 123.25 | 1.23 | 151.68 | 1.89 | 0.83 | 0.83 |
| 45.93 | 217.69 | 116.85 | 1.24 | 145.18 | 1.91 | 0.82 | 0.82 |
| 46.02 | 205.11 | 109.16 | 1.26 | 137.24 | 1.93 | 0.81 | 0.81 |
| 46.08 | 190.40 | 100.37 | 1.28 | 128.00 | 1.96 | 0.80 | 0.80 |
| 46.16 | 174.41 | 90.73 | 1.30 | 118.20 | 1.99 | 0.78 | 0.78 |
| 46.24 | 157.13 | 80.39 | 1.35 | 108.31 | 2.04 | 0.76 | 0.76 |
| 46.31 | 138.07 | 68.91 | 1.44 | 99.54 | 2.12 | 0.75 | 0.75 |
| 46.41 | 117.36 | 56.54 | 1.67 | 94.32 | 2.22 | 0.74 | 0.74 |
| 46.48 | 95.77 | 44.06 | 2.17 | 95.41 | 2.36 | 0.74 | 0.74 |
| 46.56 | 75.72 | 32.98 | 3.08 | 101.49 | 2.51 | 0.75 | 0.75 |
| 46.65 | 58.08 | 23.81 | 4.47 | 106.39 | 2.68 | 0.76 | 0.76 |
| 46.75 | 45.43 | 17.64 | 5.95 | 104.92 | 2.81 | 0.76 | 0.76 |
| 46.84 | 36.62 | 12.08 | 8.01 | 96.75 | 2.95 | 0.74 | 0.74 |
| 46.94 | 30.75 | 9.96 | 9.25 | 92.20 | 3.03 | 0.42 | 0.71 |
| 47.02 | 25.79 | 8.18 | 10.96 | 89.65 | 3.12 | 0.36 | 0.58 |
| 47.08 | 21.37 | 6.60 | 13.29 | 87.68 | 3.22 | 0.33 | 0.47 |
| 47.12 | 18.76 | 5.66 | 15.23 | 86.24 | 3.30 | 0.32 | 0.40 |
| 47.16 | 17.85 | 5.33 | 15.88 | 84.67 | 3.33 | 0.30 | 0.38 |
| 47.21 | 17.81 | 5.32 | 15.49 | 82.35 | 3.31 | 0.28 | 0.38 |
| 47.27 | 17.46 | 5.18 | 15.33 | 79.44 | 3.31 | 0.26 | 0.37 |
| 47.35 | 16.42 | 4.80 | 15.97 | 76.72 | 3.33 | 0.23 | 0.34 |
| 47.40 | 15.74 | 4.56 | 15.95 | 72.71 | 3.33 | 0.22 | 0.33 |
| 47.50 | 15.37 | 4.42 | 15.62 | 68.97 | 3.32 | 0.17 | 0.32 |
| 47.55 | 15.16 | 4.34 | 15.04 | 65.28 | 3.29 | 0.16 | 0.31 |
| 47.61 | 15.00 | 4.27 | 14.89 | 63.67 | 3.29 | 0.14 | 0.31 |
| 47.69 | 14.73 | 4.17 | 15.00 | 62.57 | 3.29 | 0.14 | 0.30 |
| 47.76 | 14.39 | 4.05 | 15.25 | 61.71 | 3.30 | 0.13 | 0.29 |
| 47.83 | 14.02 | 3.91 | 15.40 | 60.22 | 3.31 | 0.13 | 0.28 |
| 47.93 | 13.85 | 3.84 | 15.20 | 58.40 | 3.30 | 0.11 | 0.27 |
| 48.02 | 13.82 | 3.82 | 15.00 | 57.34 | 3.29 | 0.10 | 0.27 |
| 48.09 | 13.88 | 3.84 | 14.67 | 56.35 | 3.28 | 0.11 | 0.27 |
| 48.18 | 13.85 | 3.82 | 14.94 | 57.05 | 3.29 | 0.10 | 0.27 |
| 48.27 | 13.88 | 3.82 | 15.29 | 58.44 | 3.30 | 0.12 | 0.27 |
| 48.37 | 13.98 | 3.85 | 15.87 | 61.09 | 3.33 | 0.13 | 0.27 |
| 48.46 | 14.12 | 3.89 | 16.20 | 62.98 | 3.34 | 0.14 | 0.28 |
| 48.52 | 14.18 | 3.90 | 16.46 | 64.25 | 3.35 | 0.15 | 0.28 |
| 48.60 | 14.25 | 3.92 | 16.64 | 65.23 | 3.35 | 0.16 | 0.28 |
| 48.70 | 14.38 | 3.96 | 16.68 | 65.99 | 3.35 | 0.16 | 0.28 |
| 48.79 | 14.65 | 4.04 | 16.50 | 66.70 | 3.35 | 0.16 | 0.29 |
| 48.85 | 15.06 | 4.18 | 16.39 | 68.42 | 3.34 | 0.17 | 0.30 |
| 48.94 | 15.74 | 4.40 | 16.24 | 71.44 | 3.34 | 0.20 | 0.31 |
| 49.04 | 16.68 | 4.71 | 15.57 | 73.34 | 3.31 | 0.23 | 0.34 |
| 49.13 | 18.30 | 5.25 | 15.62 | 82.09 | 3.32 | 0.22 | 0.38 |
| 49.23 | 21.13 | 6.21 | 14.82 | 92.00 | 3.29 | 0.41 | 0.44 |
| 49.33 | 24.04 | 7.18 | 14.31 | 102.80 | 3.27 | 0.51 | 0.51 |
| 49.38 | 24.88 | 7.46 | 14.69 | 109.60 | 3.28 | 0.57 | 0.53 |
| 49.42 | 25.93 | 7.81 | 14.70 | 114.80 | 3.28 | 0.64 | 0.56 |
| 49.48 | 26.70 | 8.06 | 14.75 | 118.93 | 3.28 | 0.70 | 0.58 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 49.53 | 28.79 | 8.76 | 13.86 | 121.43 | 3.25 | 0.73 | 0.63 |
| 49.58 | 29.43 | 8.97 | 13.78 | 123.62 | 3.24 | 0.76 | 0.64 |
| 49.63 | 30.10 | 9.19 | 13.66 | 125.52 | 3.24 | 0.79 | 0.66 |
| 49.72 | 30.91 | 9.44 | 13.37 | 126.23 | 3.23 | 0.81 | 0.67 |
| 49.77 | 31.42 | 9.60 | 13.13 | 125.98 | 3.22 | 0.80 | 0.69 |
| 49.83 | 31.42 | 9.59 | 13.08 | 125.40 | 3.22 | 0.79 | 0.68 |
| 49.92 | 30.71 | 9.33 | 13.37 | 124.67 | 3.23 | 0.79 | 0.67 |
| 49.97 | 30.39 | 9.21 | 13.41 | 123.55 | 3.23 | 0.76 | 0.66 |
| 50.04 | 29.48 | 8.89 | 13.80 | 122.65 | 3.25 | 0.74 | 0.64 |
| 50.11 | 29.82 | 8.99 | 13.61 | 122.33 | 3.24 | 0.74 | 0.64 |
| 50.20 | 30.21 | 9.10 | 13.25 | 120.55 | 3.22 | 0.76 | 0.65 |
| 50.27 | 30.78 | 9.28 | 12.51 | 116.01 | 3.19 | 0.68 | 0.66 |
| 50.34 | 29.50 | 8.83 | 12.20 | 107.79 | 3.18 | 0.58 | 0.63 |
| 50.45 | 26.76 | 7.90 | 12.55 | 99.22 | 3.19 | 0.45 | 0.56 |
| 50.54 | 23.73 | 6.88 | 13.43 | 92.39 | 3.23 | 0.38 | 0.49 |
| 50.59 | 21.13 | 6.01 | 14.59 | 87.71 | 3.28 | 0.35 | 0.43 |
| 50.68 | 19.24 | 5.37 | 15.59 | 83.78 | 3.32 | 0.30 | 0.38 |
| 50.79 | 18.13 | 4.99 | 16.06 | 80.17 | 3.33 | 0.26 | 0.36 |
| 50.88 | 17.81 | 4.88 | 16.03 | 78.18 | 3.33 | 0.25 | 0.35 |
| 50.98 | 17.64 | 4.81 | 16.19 | 77.89 | 3.34 | 0.25 | 0.34 |
| 51.07 | 17.81 | 4.86 | 15.67 | 76.09 | 3.32 | 0.25 | 0.35 |
| 51.17 | 18.43 | 5.05 | 14.19 | 71.67 | 3.26 | 0.21 | 0.36 |
| 51.24 | 19.51 | 5.40 | 12.74 | 68.77 | 3.20 | 0.16 | 0.39 |
| 51.33 | 20.19 | 5.61 | 12.56 | 70.43 | 3.19 | 0.20 | 0.40 |
| 51.46 | 20.09 | 5.56 | 13.45 | 74.75 | 3.23 | 0.25 | 0.40 |
| 51.46 | 19.80 | 5.46 | 14.31 | 78.20 | 3.27 | 0.25 | 0.39 |
| 51.51 | 19.77 | 5.45 | 14.62 | 79.60 | 3.28 | 0.28 | 0.39 |
| 51.56 | 19.87 | 5.47 | 14.98 | 82.02 | 3.29 | 0.28 | 0.39 |
| 51.65 | 19.95 | 5.49 | 15.35 | 84.26 | 3.31 | 0.31 | 0.39 |
| 51.71 | 20.09 | 5.53 | 15.72 | 86.89 | 3.32 | 0.33 | 0.39 |
| 51.79 | 20.49 | 5.65 | 15.73 | 88.80 | 3.32 | 0.35 | 0.40 |
| 51.85 | 21.23 | 5.88 | 15.68 | 92.19 | 3.32 | 0.37 | 0.42 |
| 51.94 | 22.11 | 6.15 | 15.66 | 96.33 | 3.32 | 0.43 | 0.44 |
| 51.99 | 23.22 | 6.51 | 15.77 | 102.62 | 3.32 | 0.48 | 0.46 |
| 52.09 | 24.17 | 6.80 | 16.12 | 109.52 | 3.33 | 0.57 | 0.49 |
| 52.19 | 27.74 | 7.93 | 14.73 | 116.81 | 3.28 | 0.67 | 0.57 |
| 52.28 | 33.34 | 9.72 | 12.62 | 122.63 | 3.20 | 0.78 | 0.69 |
| 52.35 | 36.42 | 10.69 | 12.02 | 128.41 | 3.17 | 0.87 | 0.76 |
| 52.43 | 37.06 | 10.87 | 12.22 | 132.82 | 3.18 | 0.95 | 0.78 |
| 52.52 | 35.17 | 10.25 | 13.30 | 136.28 | 3.22 | 0.97 | 0.73 |
| 52.62 | 35.61 | 10.37 | 13.11 | 135.93 | 3.22 | 0.98 | 0.74 |
| 52.72 | 35.98 | 10.46 | 12.80 | 133.92 | 3.20 | 0.94 | 0.75 |
| 52.81 | 34.26 | 9.89 | 13.70 | 135.53 | 3.24 | 0.89 | 0.71 |
| 52.91 | 31.32 | 8.94 | 16.37 | 146.31 | 3.34 | 1.03 | 0.64 |
| 53.00 | 37.23 | 10.79 | 14.34 | 154.70 | 3.27 | 1.38 | 0.77 |
| 53.10 | 62.36 | 18.71 | 7.92 | 148.13 | 2.95 | 0.82 | 0.82 |
| 53.20 | 108.21 | 33.14 | 3.92 | 129.79 | 2.62 | 0.80 | 0.80 |
| 53.29 | 163.78 | 50.57 | 2.27 | 114.61 | 2.38 | 0.77 | 0.77 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 53.38 | 213.88 | 66.21 | 1.72 | 114.09 | 2.24 | 0.77 | 0.77 |
| 53.46 | 260.07 | 80.59 | 1.49 | 119.81 | 2.14 | 0.78 | 0.78 |
| 53.53 | 292.05 | 90.48 | 1.45 | 130.93 | 2.12 | 0.80 | 0.80 |
| 53.63 | 323.19 | 100.02 | 1.40 | 139.93 | 2.09 | 0.81 | 0.81 |
| 53.73 | 361.79 | 111.85 | 1.31 | 146.92 | 2.01 | 0.82 | 0.82 |
| 53.82 | 388.35 | 119.89 | 1.25 | 150.03 | 1.92 | 0.83 | 0.83 |
| 53.92 | 387.71 | 119.45 | 1.23 | 146.54 | 1.89 | 0.82 | 0.82 |
| 53.94 | 360.18 | 110.85 | 1.25 | 138.23 | 1.92 | 0.81 | 0.81 |
| 53.96 | 336.26 | 103.38 | 1.27 | 131.20 | 1.95 | 0.80 | 0.80 |
| 53.97 | 349.08 | 107.34 | 1.25 | 134.16 | 1.92 | 0.80 | 0.80 |
| 54.05 | 377.59 | 116.04 | 1.22 | 141.00 | 1.87 | 0.81 | 0.81 |
| 54.08 | 426.28 | 131.09 | 1.15 | 150.15 | 1.79 | 0.83 | 0.83 |
| 54.13 | 473.21 | 145.55 | 1.06 | 154.41 | 1.74 | 0.83 | 0.83 |
| 54.19 | 518.79 | 159.56 | 1.00 | 159.56 | 1.70 | 0.84 | 0.84 |
| 54.25 | 524.22 | 161.12 | 1.01 | 162.94 | 1.71 | 0.84 | 0.84 |
| 54.28 | 510.87 | 156.95 | 1.06 | 166.66 | 1.74 | 0.85 | 0.85 |
| 54.29 | 486.82 | 149.48 | 1.10 | 164.40 | 1.76 | 0.85 | 0.85 |
| 54.34 | 486.89 | 149.42 | 1.10 | 164.35 | 1.76 | 0.85 | 0.85 |
| 54.35 | 492.20 | 151.05 | 1.09 | 164.72 | 1.75 | 0.85 | 0.85 |
| 54.40 | 504.89 | 154.89 | 1.07 | 165.62 | 1.74 | 0.85 | 0.85 |
| 54.44 | 522.30 | 160.18 | 1.04 | 166.45 | 1.72 | 0.85 | 0.85 |
| 54.49 | 535.62 | 164.19 | 1.01 | 165.88 | 1.71 | 0.85 | 0.85 |
| 54.53 | 546.25 | 167.39 | 1.00 | 167.39 | 1.70 | 0.85 | 0.85 |
| 54.57 | 558.27 | 171.02 | 1.00 | 171.02 | 1.69 | 0.85 | 0.85 |
| 54.58 | 567.78 | 173.92 | 1.00 | 173.92 | 1.70 | 0.86 | 0.86 |
| 54.63 | 560.90 | 171.71 | 1.01 | 173.90 | 1.71 | 0.86 | 0.86 |
| 54.68 | 536.31 | 164.04 | 1.08 | 176.93 | 1.75 | 0.86 | 0.86 |
| 54.73 | 510.50 | 156.00 | 1.12 | 175.12 | 1.78 | 0.86 | 0.86 |
| 54.78 | 499.67 | 152.59 | 1.14 | 173.29 | 1.79 | 0.86 | 0.86 |
| 54.83 | 493.63 | 150.64 | 1.15 | 172.82 | 1.80 | 0.86 | 0.86 |
| 54.88 | 497.14 | 151.64 | 1.15 | 175.08 | 1.80 | 0.86 | 0.86 |
| 54.92 | 500.68 | 152.65 | 1.17 | 178.37 | 1.81 | 0.86 | 0.86 |
| 54.97 | 510.81 | 155.66 | 1.16 | 180.73 | 1.81 | 0.87 | 0.87 |
| 55.02 | 513.44 | 156.38 | 1.16 | 181.62 | 1.81 | 0.87 | 0.87 |
| 55.12 | 487.90 | 148.39 | 1.20 | 178.01 | 1.85 | 0.86 | 0.86 |
| 55.17 | 449.17 | 136.44 | 1.25 | 170.63 | 1.92 | 0.85 | 0.85 |
| 55.25 | 410.54 | 124.51 | 1.29 | 160.49 | 1.98 | 0.84 | 0.84 |
| 55.31 | 394.21 | 119.43 | 1.29 | 154.46 | 1.98 | 0.83 | 0.83 |
| 55.36 | 388.18 | 117.52 | 1.27 | 148.87 | 1.95 | 0.83 | 0.83 |
| 55.45 | 381.09 | 115.23 | 1.25 | 143.68 | 1.91 | 0.82 | 0.82 |
| 55.50 | 365.91 | 110.54 | 1.25 | 137.89 | 1.92 | 0.81 | 0.81 |
| 55.60 | 351.24 | 105.95 | 1.26 | 133.93 | 1.94 | 0.80 | 0.80 |
| 55.65 | 332.24 | 100.11 | 1.28 | 128.15 | 1.96 | 0.80 | 0.80 |
| 55.71 | 324.14 | 97.58 | 1.27 | 124.39 | 1.96 | 0.79 | 0.79 |
| 55.75 | 320.40 | 96.40 | 1.26 | 121.19 | 1.93 | 0.78 | 0.78 |
| 55.79 | 325.12 | 97.79 | 1.25 | 121.90 | 1.91 | 0.79 | 0.79 |
| 55.84 | 332.47 | 99.97 | 1.24 | 123.76 | 1.90 | 0.79 | 0.79 |
| 55.89 | 338.01 | 101.60 | 1.23 | 125.39 | 1.90 | 0.79 | 0.79 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 55.90 | 341.15 | 102.54 | 1.23 | 126.17 | 1.89 | 0.79 | 0.79 |
| 55.94 | 336.26 | 101.02 | 1.24 | 124.98 | 1.90 | 0.79 | 0.79 |
| 55.99 | 327.63 | 98.34 | 1.25 | 122.89 | 1.92 | 0.79 | 0.79 |
| 56.03 | 317.88 | 95.34 | 1.26 | 120.41 | 1.94 | 0.78 | 0.78 |
| 56.08 | 311.67 | 93.40 | 1.27 | 118.54 | 1.95 | 0.78 | 0.78 |
| 56.14 | 306.37 | 91.74 | 1.27 | 116.74 | 1.95 | 0.78 | 0.78 |
| 56.22 | 299.89 | 89.70 | 1.28 | 114.65 | 1.96 | 0.77 | 0.77 |
| 56.28 | 294.29 | 87.95 | 1.28 | 112.90 | 1.97 | 0.77 | 0.77 |
| 56.33 | 292.57 | 87.39 | 1.29 | 112.38 | 1.97 | 0.77 | 0.77 |
| 56.38 | 294.06 | 87.79 | 1.28 | 112.46 | 1.97 | 0.77 | 0.77 |
| 56.45 | 301.34 | 89.92 | 1.27 | 114.23 | 1.95 | 0.77 | 0.77 |
| 56.52 | 312.58 | 93.24 | 1.25 | 117.01 | 1.93 | 0.78 | 0.78 |
| 56.62 | 325.19 | 96.94 | 1.24 | 120.21 | 1.90 | 0.78 | 0.78 |
| 56.66 | 338.42 | 100.88 | 1.22 | 123.02 | 1.87 | 0.79 | 0.79 |
| 56.73 | 350.06 | 104.30 | 1.21 | 126.65 | 1.87 | 0.79 | 0.79 |
| 56.81 | 357.11 | 106.33 | 1.22 | 129.59 | 1.87 | 0.80 | 0.80 |
| 56.95 | 363.42 | 108.06 | 1.23 | 132.64 | 1.89 | 0.80 | 0.80 |
| 57.00 | 372.46 | 110.72 | 1.23 | 135.80 | 1.88 | 0.81 | 0.81 |
| 57.09 | 373.11 | 110.80 | 1.23 | 136.52 | 1.89 | 0.81 | 0.81 |
| 57.19 | 368.58 | 109.32 | 1.24 | 135.85 | 1.91 | 0.81 | 0.81 |
| 57.27 | 354.04 | 104.88 | 1.25 | 131.44 | 1.92 | 0.80 | 0.80 |
| 57.35 | 357.65 | 105.87 | 1.23 | 130.16 | 1.89 | 0.80 | 0.80 |
| 57.44 | 356.17 | 105.33 | 1.21 | 127.36 | 1.86 | 0.79 | 0.79 |
| 57.50 | 364.37 | 107.70 | 1.18 | 127.07 | 1.83 | 0.79 | 0.79 |
| 57.52 | 378.10 | 111.77 | 1.18 | 131.85 | 1.83 | 0.80 | 0.80 |
| 57.58 | 409.37 | 121.03 | 1.17 | 141.73 | 1.82 | 0.82 | 0.82 |
| 57.63 | 432.08 | 127.73 | 1.17 | 149.17 | 1.81 | 0.83 | 0.83 |
| 57.72 | 439.00 | 129.66 | 1.17 | 151.31 | 1.81 | 0.83 | 0.83 |
| 57.77 | 433.73 | 128.03 | 1.16 | 148.26 | 1.80 | 0.82 | 0.82 |
| 57.82 | 429.55 | 126.71 | 1.13 | 143.29 | 1.78 | 0.82 | 0.82 |
| 57.91 | 436.73 | 128.72 | 1.06 | 137.09 | 1.74 | 0.81 | 0.81 |
| 57.96 | 442.84 | 130.46 | 1.00 | 130.46 | 1.69 | 0.80 | 0.80 |
| 58.02 | 458.90 | 135.16 | 1.00 | 135.16 | 1.66 | 0.81 | 0.81 |
| 58.09 | 469.26 | 138.12 | 1.00 | 138.12 | 1.65 | 0.81 | 0.81 |
| 58.16 | 484.88 | 142.65 | 1.00 | 142.65 | 1.63 | 0.82 | 0.82 |
| 58.25 | 491.12 | 144.36 | 1.00 | 144.36 | 1.64 | 0.82 | 0.82 |
| 58.30 | 487.65 | 143.26 | 1.00 | 143.26 | 1.66 | 0.82 | 0.82 |
| 58.40 | 479.62 | 140.74 | 1.00 | 140.74 | 1.69 | 0.81 | 0.81 |
| 58.50 | 468.52 | 137.31 | 1.02 | 139.77 | 1.71 | 0.81 | 0.81 |
| 58.56 | 467.50 | 136.92 | 1.01 | 138.70 | 1.71 | 0.81 | 0.81 |
| 58.64 | 464.81 | 136.01 | 1.03 | 140.28 | 1.72 | 0.81 | 0.81 |
| 58.73 | 474.79 | 138.81 | 1.05 | 145.16 | 1.73 | 0.82 | 0.82 |
| 58.78 | 488.15 | 142.67 | 1.02 | 145.87 | 1.72 | 0.82 | 0.82 |
| 58.88 | 506.71 | 147.98 | 1.00 | 147.98 | 1.69 | 0.82 | 0.82 |
| 58.97 | 511.03 | 149.10 | 1.00 | 149.10 | 1.66 | 0.83 | 0.83 |
| 59.07 | 506.24 | 147.53 | 1.00 | 147.53 | 1.66 | 0.82 | 0.82 |
| 59.13 | 493.59 | 143.73 | 1.00 | 143.73 | 1.65 | 0.82 | 0.82 |
| 59.23 | 484.71 | 140.99 | 1.00 | 140.99 | 1.65 | 0.81 | 0.81 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 59.31 | 464.47 | 134.94 | 1.00 | 134.94 | 1.65 | 0.81 | 0.81 |
| 59.38 | 450.35 | 130.71 | 1.00 | 130.71 | 1.65 | 0.80 | 0.80 |
| 59.41 | 439.19 | 127.40 | 1.00 | 127.40 | 1.66 | 0.79 | 0.79 |
| 59.46 | 443.57 | 128.62 | 1.00 | 128.62 | 1.65 | 0.80 | 0.80 |
| 59.51 | 443.56 | 128.55 | 1.00 | 128.55 | 1.65 | 0.80 | 0.80 |
| 59.57 | 451.89 | 130.91 | 1.00 | 130.91 | 1.67 | 0.80 | 0.80 |
| 59.66 | 471.05 | 136.37 | 1.00 | 136.37 | 1.67 | 0.81 | 0.81 |
| 59.75 | 492.31 | 142.44 | 1.00 | 142.44 | 1.70 | 0.82 | 0.82 |
| 59.80 | 506.48 | 146.48 | 1.01 | 147.84 | 1.71 | 0.82 | 0.82 |
| 59.85 | 508.64 | 147.04 | 1.07 | 156.99 | 1.74 | 0.84 | 0.84 |
| 59.91 | 504.22 | 145.65 | 1.08 | 158.02 | 1.75 | 0.84 | 0.84 |
| 59.99 | 498.85 | 143.96 | 1.11 | 159.53 | 1.77 | 0.84 | 0.84 |
| 60.05 | 480.97 | 138.68 | 1.17 | 161.59 | 1.81 | 0.84 | 0.84 |
| 60.09 | 464.78 | 133.92 | 1.20 | 160.52 | 1.85 | 0.84 | 0.84 |
| 60.14 | 444.43 | 127.94 | 1.22 | 156.08 | 1.88 | 0.84 | 0.84 |
| 60.19 | 437.86 | 125.96 | 1.22 | 153.23 | 1.87 | 0.83 | 0.83 |
| 60.22 | 434.25 | 124.88 | 1.21 | 151.55 | 1.87 | 0.83 | 0.83 |
| 60.28 | 412.99 | 118.63 | 1.23 | 145.94 | 1.89 | 0.82 | 0.82 |
| 60.33 | 381.24 | 109.36 | 1.26 | 137.48 | 1.93 | 0.81 | 0.81 |
| 60.38 | 338.97 | 97.07 | 1.31 | 126.83 | 2.00 | 0.79 | 0.79 |
| 60.42 | 309.75 | 88.57 | 1.35 | 119.65 | 2.05 | 0.78 | 0.78 |
| 60.48 | 282.02 | 80.50 | 1.38 | 111.02 | 2.07 | 0.77 | 0.77 |
| 60.57 | 262.48 | 74.78 | 1.36 | 101.50 | 2.05 | 0.75 | 0.75 |
| 60.66 | 243.89 | 69.35 | 1.32 | 91.67 | 2.02 | 0.73 | 0.73 |
| 60.68 | 232.16 | 65.95 | 1.30 | 85.85 | 1.99 | 0.72 | 0.72 |
| 60.69 | 225.51 | 64.02 | 1.29 | 82.84 | 1.98 | 0.71 | 0.71 |
| 60.74 | 217.75 | 61.75 | 1.30 | 80.07 | 1.99 | 0.59 | 0.71 |
| 60.79 | 206.27 | 58.41 | 1.30 | 76.18 | 2.00 | 0.42 | 0.70 |
| 60.84 | 192.16 | 54.32 | 1.32 | 71.82 | 2.02 | 0.30 | 0.69 |
| 60.89 | 182.35 | 51.47 | 1.33 | 68.64 | 2.03 | 0.23 | 0.68 |
| 60.98 | 174.35 | 49.12 | 1.36 | 66.57 | 2.05 | 0.19 | 0.67 |
| 61.03 | 168.07 | 47.30 | 1.46 | 69.19 | 2.13 | 0.24 | 0.68 |
| 61.08 | 164.86 | 46.35 | 1.72 | 79.69 | 2.24 | 0.57 | 0.71 |
| 61.18 | 164.63 | 46.24 | 1.95 | 90.12 | 2.31 | 0.73 | 0.73 |
| 61.23 | 168.20 | 47.23 | 2.12 | 100.04 | 2.35 | 0.75 | 0.75 |
| 61.31 | 194.08 | 54.62 | 1.72 | 94.03 | 2.24 | 0.74 | 0.74 |
| 61.42 | 236.42 | 66.70 | 1.41 | 94.11 | 2.09 | 0.74 | 0.74 |
| 61.47 | 287.17 | 81.21 | 1.24 | 100.64 | 1.90 | 0.75 | 0.75 |
| 61.51 | 331.30 | 93.81 | 1.14 | 107.25 | 1.79 | 0.76 | 0.76 |
| 61.54 | 366.14 | 103.76 | 1.05 | 108.54 | 1.73 | 0.76 | 0.76 |
| 61.57 | 395.83 | 112.23 | 1.00 | 112.23 | 1.70 | 0.77 | 0.77 |
| 61.58 | 418.64 | 118.74 | 1.00 | 118.74 | 1.67 | 0.78 | 0.78 |
| 61.61 | 393.43 | 111.49 | 1.00 | 111.49 | 1.70 | 0.77 | 0.77 |
| 61.63 | 367.65 | 104.10 | 1.03 | 107.07 | 1.72 | 0.76 | 0.76 |
| 61.63 | 257.89 | 72.70 | 1.26 | 91.77 | 1.94 | 0.73 | 0.73 |
| 61.66 | 191.36 | 53.66 | 1.48 | 79.27 | 2.14 | 0.55 | 0.71 |
| 61.67 | 129.55 | 35.97 | 2.37 | 85.35 | 2.40 | 0.72 | 0.72 |
| 61.70 | 152.96 | 42.66 | 1.96 | 83.80 | 2.31 | 0.72 | 0.72 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 61.71 | 180.90 | 50.64 | 1.67 | 84.55 | 2.22 | 0.72 | 0.72 |
| 61.76 | 206.41 | 57.90 | 1.51 | 87.45 | 2.15 | 0.72 | 0.72 |
| 61.80 | 228.84 | 64.28 | 1.42 | 91.10 | 2.10 | 0.73 | 0.73 |
| 61.84 | 250.40 | 70.41 | 1.34 | 94.04 | 2.03 | 0.74 | 0.74 |
| 61.86 | 279.75 | 78.77 | 1.26 | 98.87 | 1.93 | 0.75 | 0.75 |
| 61.93 | 312.34 | 88.02 | 1.18 | 103.69 | 1.82 | 0.75 | 0.75 |
| 61.98 | 357.76 | 100.92 | 1.00 | 100.92 | 1.73 | 0.75 | 0.75 |
| 62.04 | 405.56 | 114.48 | 1.00 | 114.48 | 1.68 | 0.77 | 0.77 |
| 62.09 | 451.78 | 127.59 | 1.00 | 127.59 | 1.64 | 0.79 | 0.79 |
| 62.14 | 481.91 | 136.10 | 1.00 | 136.10 | 1.62 | 0.81 | 0.81 |
| 62.19 | 499.12 | 140.93 | 1.00 | 140.93 | 1.60 | 0.81 | 0.81 |
| 62.24 | 508.93 | 143.65 | 1.00 | 143.65 | 1.59 | 0.82 | 0.82 |
| 62.26 | 519.32 | 146.58 | 1.00 | 146.58 | 1.58 | 0.82 | 0.82 |
| 62.29 | 519.05 | 146.46 | 1.00 | 146.46 | 1.58 | 0.82 | 0.82 |
| 62.38 | 515.71 | 145.37 | 1.00 | 145.37 | 1.60 | 0.82 | 0.82 |
| 62.44 | 490.28 | 138.07 | 1.00 | 138.07 | 1.65 | 0.81 | 0.81 |
| 62.46 | 469.07 | 132.02 | 1.00 | 132.02 | 1.69 | 0.80 | 0.80 |
| 62.47 | 448.15 | 126.07 | 1.00 | 126.07 | 1.70 | 0.79 | 0.79 |
| 62.51 | 453.68 | 127.59 | 1.00 | 127.59 | 1.69 | 0.79 | 0.79 |
| 62.56 | 463.98 | 130.45 | 1.00 | 130.45 | 1.69 | 0.80 | 0.80 |
| 62.60 | 477.62 | 134.26 | 1.00 | 134.26 | 1.68 | 0.80 | 0.80 |
| 62.65 | 481.73 | 135.35 | 1.00 | 135.35 | 1.68 | 0.81 | 0.81 |
| 62.70 | 482.34 | 135.46 | 1.00 | 135.46 | 1.66 | 0.81 | 0.81 |
| 62.75 | 483.05 | 135.59 | 1.00 | 135.59 | 1.65 | 0.81 | 0.81 |
| 62.80 | 494.83 | 138.85 | 1.00 | 138.85 | 1.64 | 0.81 | 0.81 |
| 62.85 | 525.29 | 147.40 | 1.00 | 147.40 | 1.60 | 0.82 | 0.82 |
| 62.89 | 569.18 | 159.73 | 1.00 | 159.73 | 1.56 | 0.84 | 0.84 |
| 62.97 | 619.66 | 173.86 | 1.00 | 173.86 | 1.54 | 0.86 | 0.86 |
| 63.04 | 667.84 | 187.32 | 1.00 | 187.32 | 1.52 | 0.87 | 0.87 |
| 63.09 | 703.12 | 197.18 | 1.00 | 197.18 | 1.50 | 0.88 | 0.88 |
| 63.13 | 715.51 | 200.57 | 1.00 | 200.57 | 1.51 | 0.89 | 0.89 |
| 63.19 | 716.52 | 200.74 | 1.00 | 200.74 | 1.54 | 0.89 | 0.89 |
| 63.23 | 720.23 | 201.69 | 1.00 | 201.69 | 1.57 | 0.89 | 0.89 |
| 63.28 | 726.78 | 203.42 | 1.00 | 203.42 | 1.59 | 0.89 | 0.89 |
| 63.32 | 729.18 | 204.02 | 1.00 | 204.02 | 1.57 | 0.89 | 0.89 |
| 63.38 | 725.67 | 202.89 | 1.00 | 202.89 | 1.49 | 0.89 | 0.89 |
| 63.44 | 726.68 | 203.06 | 1.00 | 203.06 | 1.43 | 0.89 | 0.89 |
| 63.52 | 715.48 | 199.75 | 1.00 | 199.75 | 1.43 | 0.89 | 0.89 |
| 63.57 | 697.37 | 194.57 | 1.00 | 194.57 | 1.49 | 0.88 | 0.88 |
| 63.66 | 659.58 | 183.79 | 1.00 | 183.79 | 1.52 | 0.87 | 0.87 |
| 63.73 | 534.95 | 148.76 | 1.00 | 148.76 | 1.63 | 0.83 | 0.83 |
| 63.76 | 455.61 | 126.50 | 1.03 | 130.54 | 1.72 | 0.80 | 0.80 |
| 63.76 | 411.85 | 114.24 | 1.12 | 127.66 | 1.77 | 0.79 | 0.79 |
| 63.78 | 471.87 | 131.02 | 1.00 | 131.02 | 1.70 | 0.80 | 0.80 |
| 63.81 | 512.86 | 142.46 | 1.00 | 142.46 | 1.67 | 0.82 | 0.82 |
| 63.85 | 526.43 | 146.19 | 1.00 | 146.19 | 1.68 | 0.82 | 0.82 |
| 63.86 | 522.58 | 145.10 | 1.00 | 145.10 | 1.70 | 0.82 | 0.82 |
| 63.91 | 497.92 | 138.14 | 1.07 | 148.35 | 1.74 | 0.82 | 0.82 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 63.94 | 483.78 | 134.14 | 1.12 | 150.35 | 1.77 | 0.83 | 0.83 |
| 63.95 | 480.34 | 133.15 | 1.14 | 151.38 | 1.79 | 0.83 | 0.83 |
| 64.00 | 476.26 | 131.94 | 1.14 | 150.67 | 1.79 | 0.83 | 0.83 |
| 64.02 | 473.22 | 131.08 | 1.14 | 149.37 | 1.79 | 0.83 | 0.83 |
| 64.05 | 475.78 | 131.75 | 1.12 | 148.02 | 1.78 | 0.82 | 0.82 |
| 64.09 | 478.18 | 132.36 | 1.11 | 146.64 | 1.77 | 0.82 | 0.82 |
| 64.11 | 480.07 | 132.86 | 1.09 | 144.77 | 1.75 | 0.82 | 0.82 |
| 64.15 | 482.26 | 133.43 | 1.07 | 142.44 | 1.74 | 0.82 | 0.82 |
| 64.20 | 494.31 | 136.71 | 1.03 | 141.24 | 1.72 | 0.81 | 0.81 |
| 64.25 | 512.59 | 141.74 | 1.00 | 141.74 | 1.70 | 0.82 | 0.82 |
| 64.29 | 535.70 | 148.11 | 1.00 | 148.11 | 1.68 | 0.82 | 0.82 |
| 64.34 | 570.38 | 157.68 | 1.00 | 157.68 | 1.64 | 0.84 | 0.84 |
| 64.43 | 605.81 | 167.40 | 1.00 | 167.40 | 1.60 | 0.85 | 0.85 |
| 64.48 | 630.95 | 174.30 | 1.00 | 174.30 | 1.56 | 0.86 | 0.86 |
| 64.53 | 642.69 | 177.47 | 1.00 | 177.47 | 1.53 | 0.86 | 0.86 |
| 64.58 | 655.07 | 180.82 | 1.00 | 180.82 | 1.52 | 0.87 | 0.87 |
| 64.63 | 680.65 | 187.83 | 1.00 | 187.83 | 1.51 | 0.87 | 0.87 |
| 64.68 | 709.63 | 195.77 | 1.00 | 195.77 | 1.52 | 0.88 | 0.88 |
| 64.73 | 718.74 | 198.20 | 1.00 | 198.20 | 1.53 | 0.88 | 0.88 |
| 64.77 | 735.60 | 202.79 | 1.00 | 202.79 | 1.51 | 0.89 | 0.89 |
| 64.82 | 751.19 | 207.01 | 1.00 | 207.01 | 1.48 | 0.89 | 0.89 |
| 64.87 | 732.64 | 201.76 | 1.00 | 201.76 | 1.49 | 0.89 | 0.89 |
| 64.89 | 713.98 | 196.56 | 1.00 | 196.56 | 1.50 | 0.88 | 0.88 |
| 64.93 | 689.59 | 189.73 | 1.00 | 189.73 | 1.53 | 0.88 | 0.88 |
| 64.94 | 715.81 | 196.96 | 1.00 | 196.96 | 1.51 | 0.88 | 0.88 |
| 64.98 | 725.69 | 199.62 | 1.00 | 199.62 | 1.50 | 0.89 | 0.89 |
| 64.99 | 734.03 | 201.90 | 1.00 | 201.90 | 1.50 | 0.89 | 0.89 |
| 65.03 | 732.37 | 201.35 | 1.00 | 201.35 | 1.50 | 0.89 | 0.89 |
| 65.08 | 727.04 | 199.79 | 1.00 | 199.79 | 1.49 | 0.89 | 0.89 |
| 65.13 | 715.51 | 196.50 | 1.00 | 196.50 | 1.48 | 0.88 | 0.88 |
| 65.17 | 703.60 | 193.13 | 1.00 | 193.13 | 1.46 | 0.88 | 0.88 |
| 65.22 | 689.29 | 189.08 | 1.00 | 189.08 | 1.45 | 0.87 | 0.87 |
| 65.23 | 681.55 | 186.93 | 1.00 | 186.93 | 1.45 | 0.87 | 0.87 |
| 65.28 | 679.28 | 186.22 | 1.00 | 186.22 | 1.46 | 0.87 | 0.87 |
| 65.32 | 679.65 | 186.24 | 1.00 | 186.24 | 1.47 | 0.87 | 0.87 |
| 65.37 | 680.17 | 186.30 | 1.00 | 186.30 | 1.49 | 0.87 | 0.87 |
| 65.42 | 684.61 | 187.42 | 1.00 | 187.42 | 1.50 | 0.87 | 0.87 |
| 65.47 | 671.65 | 183.76 | 1.00 | 183.76 | 1.50 | 0.87 | 0.87 |
| 65.48 | 657.21 | 179.77 | 1.00 | 179.77 | 1.52 | 0.86 | 0.86 |
| 65.49 | 638.86 | 174.70 | 1.00 | 174.70 | 1.52 | 0.86 | 0.86 |
| 65.52 | 636.56 | 174.01 | 1.00 | 174.01 | 1.52 | 0.86 | 0.86 |
| 65.57 | 645.67 | 176.43 | 1.00 | 176.43 | 1.41 | 0.86 | 0.86 |
| 65.62 | 661.16 | 180.61 | 1.00 | 180.61 | 1.28 | 0.87 | 0.87 |
| 65.67 | 682.44 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 65.69 | 697.23 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 65.72 | 719.02 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 65.77 | 752.26 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 65.82 | 790.78 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |

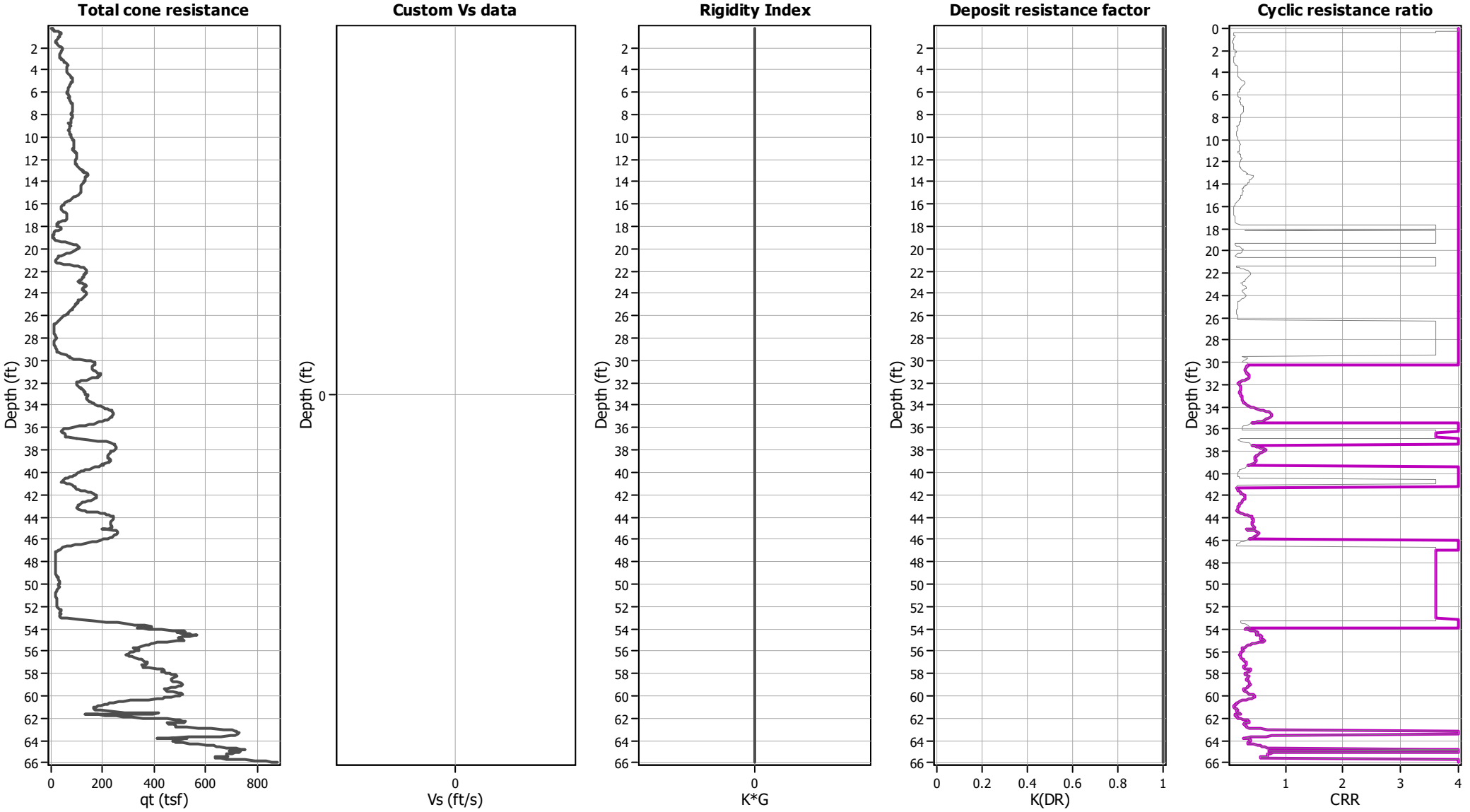
**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 65.86 | 811.97 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 65.86 | 833.63 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 65.91 | 854.04 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 65.96 | 878.41 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |

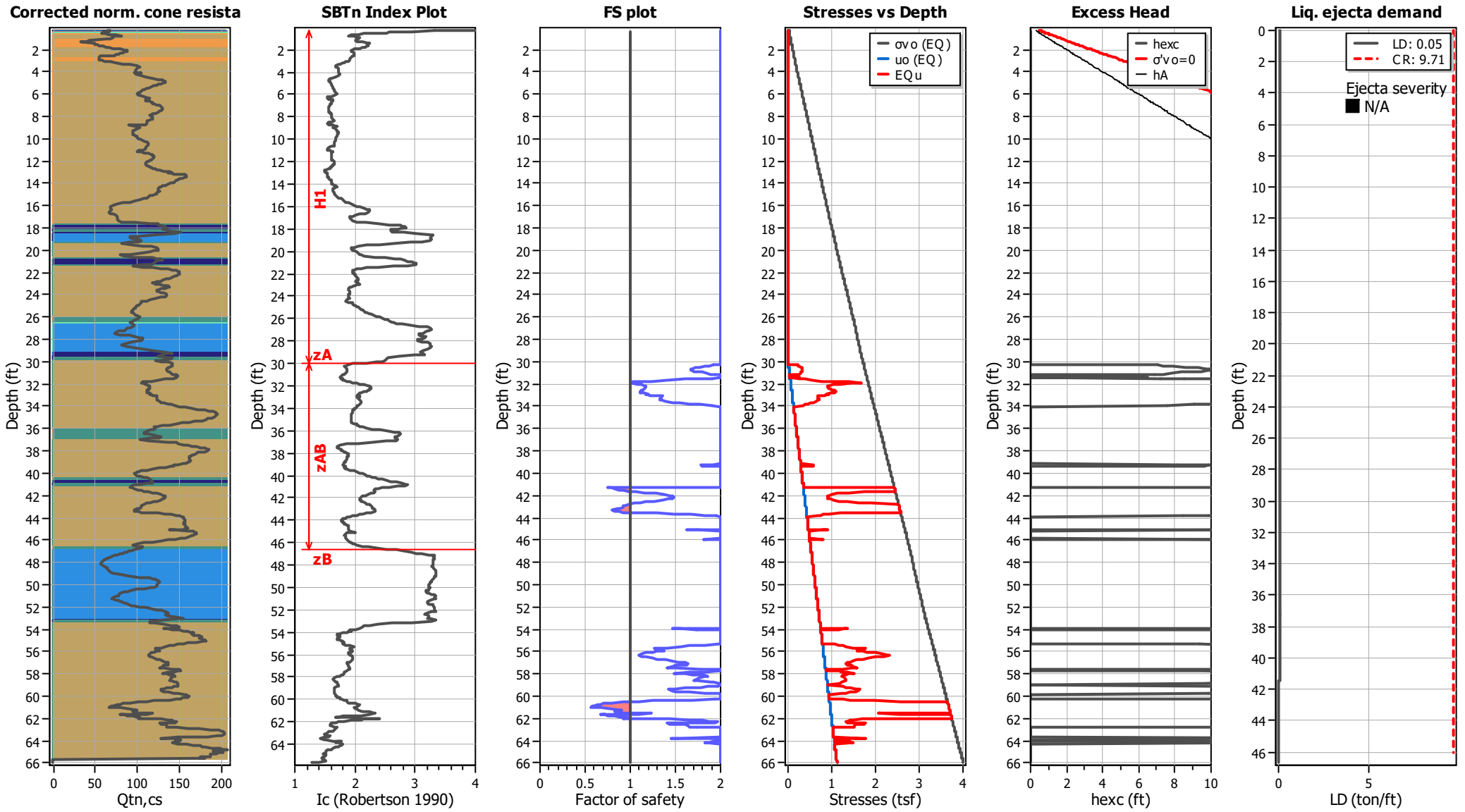
**Abbreviations**

$q_t$: Total cone resistance
$K_c$: Cone resistance correction factor due to fines
$Q_{tn,cs}$: Adjusted and corrected cone resistance due to fines
$I_c$: Soil behavior type index
$S_{u(liq)}/\sigma'_v$: Calculated liquefied undrained strength ratio
$S_{u(peak)}/\sigma'_v$: Calculated peak undrained strength ratio

## Aging Calculation Estimation



# Ejecta Severity Estimation



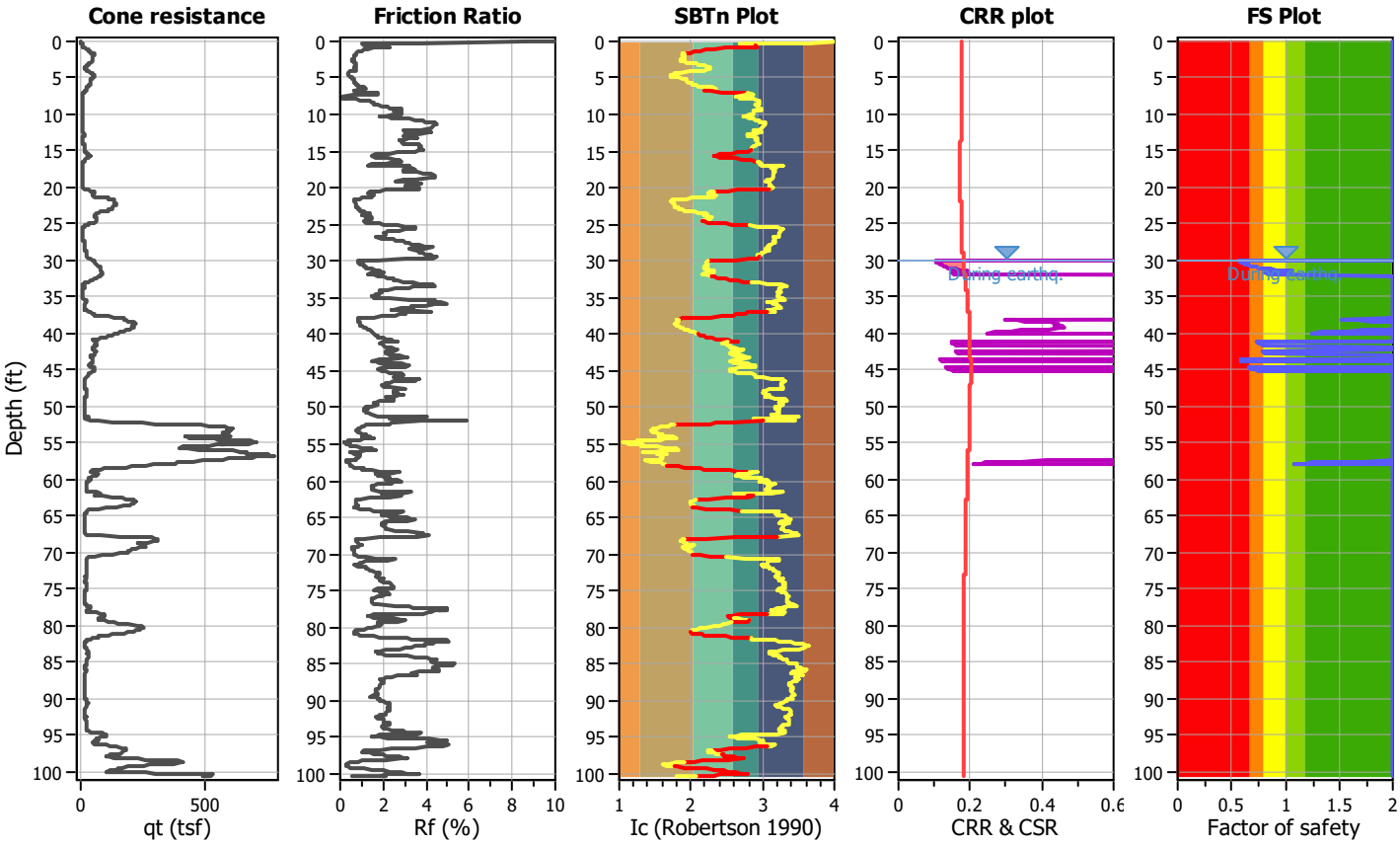
# LIQUEFACTION ANALYSIS REPORT

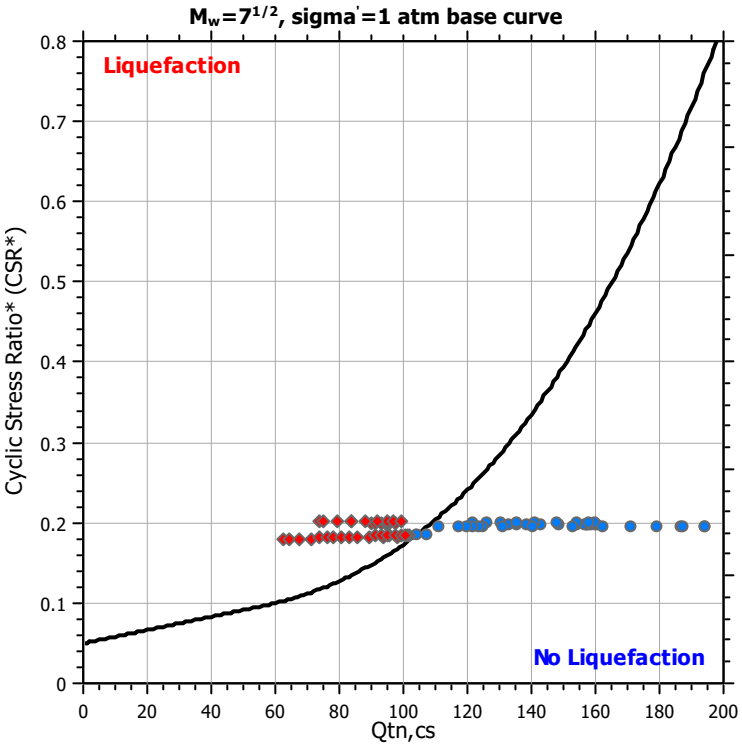
**Project title : W1857-88-01** **Location : 331 The City Drive S**

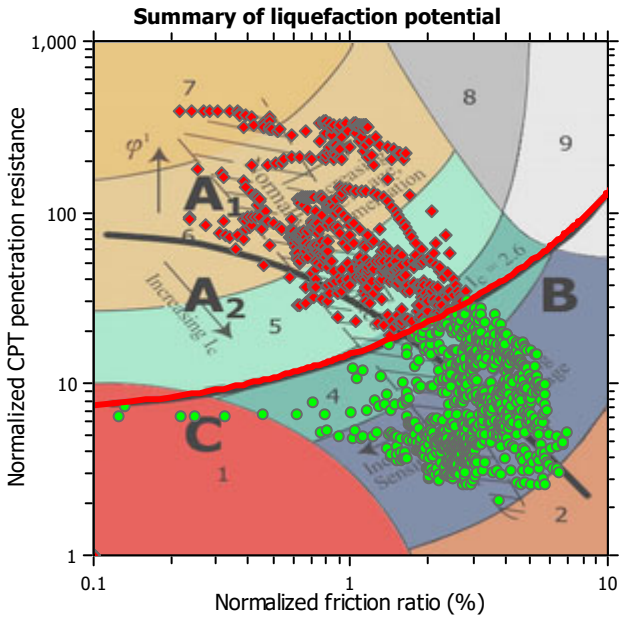
**CPT file : CPT-3**

**Input parameters and analysis data**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 54.00 ft | Use fill: | No | Clay like behavior applied: | Sands only |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 30.00 ft | Fill height: | N/A | Limit depth applied: | Yes |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth: | 62.00 ft |
| Earthquake magnitude $M_w$: | 6.12 | Ic cut-off value: | 2.60 | Trans. detect. applied: | Yes | MSF method: | Method based |
| Peak ground acceleration: | 0.42 | Unit weight calculation: | Based on SBT | $K_\sigma$ applied: | Yes | | |

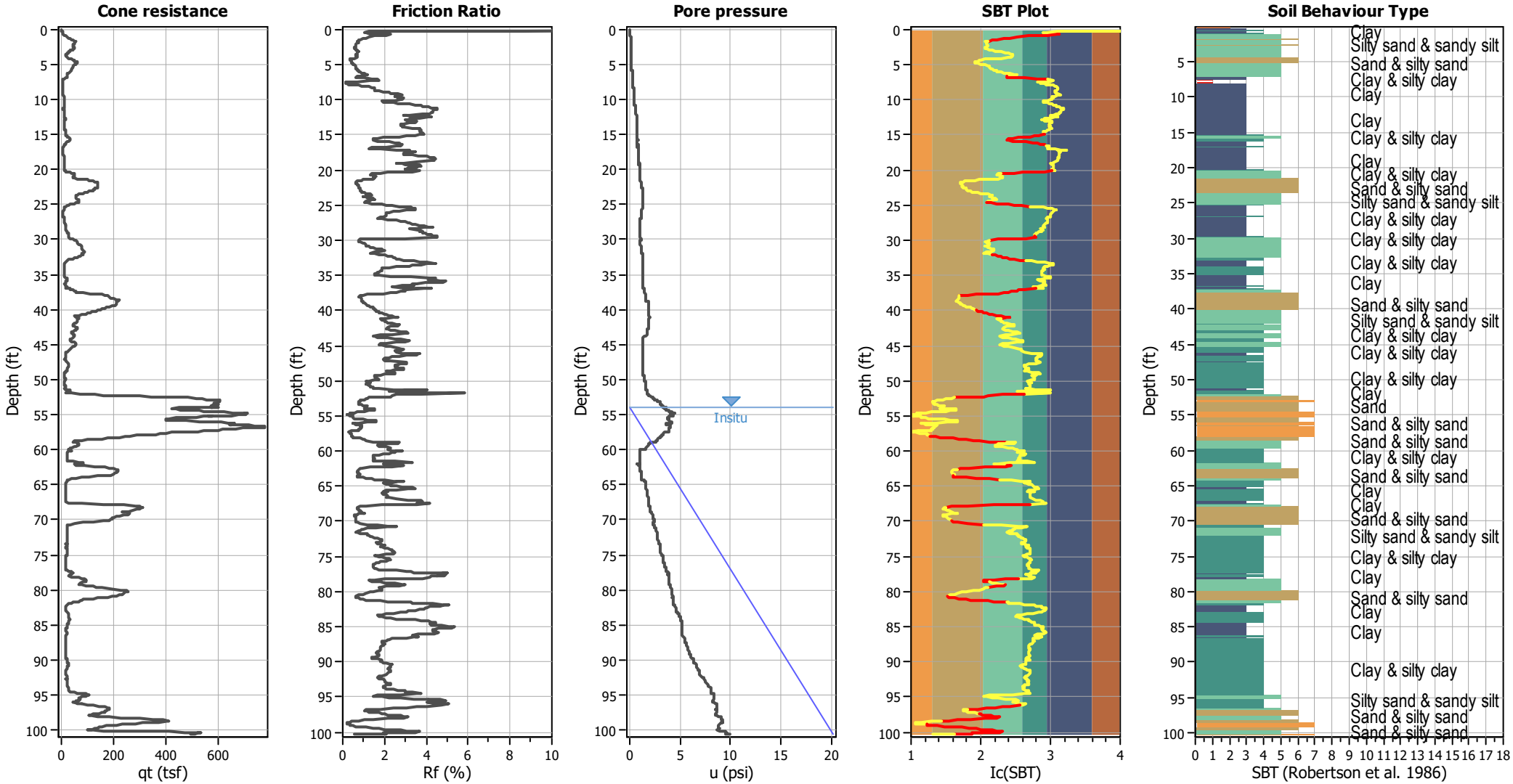



Zone $A_1$: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone $A_2$: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

# CPT basic interpretation plots



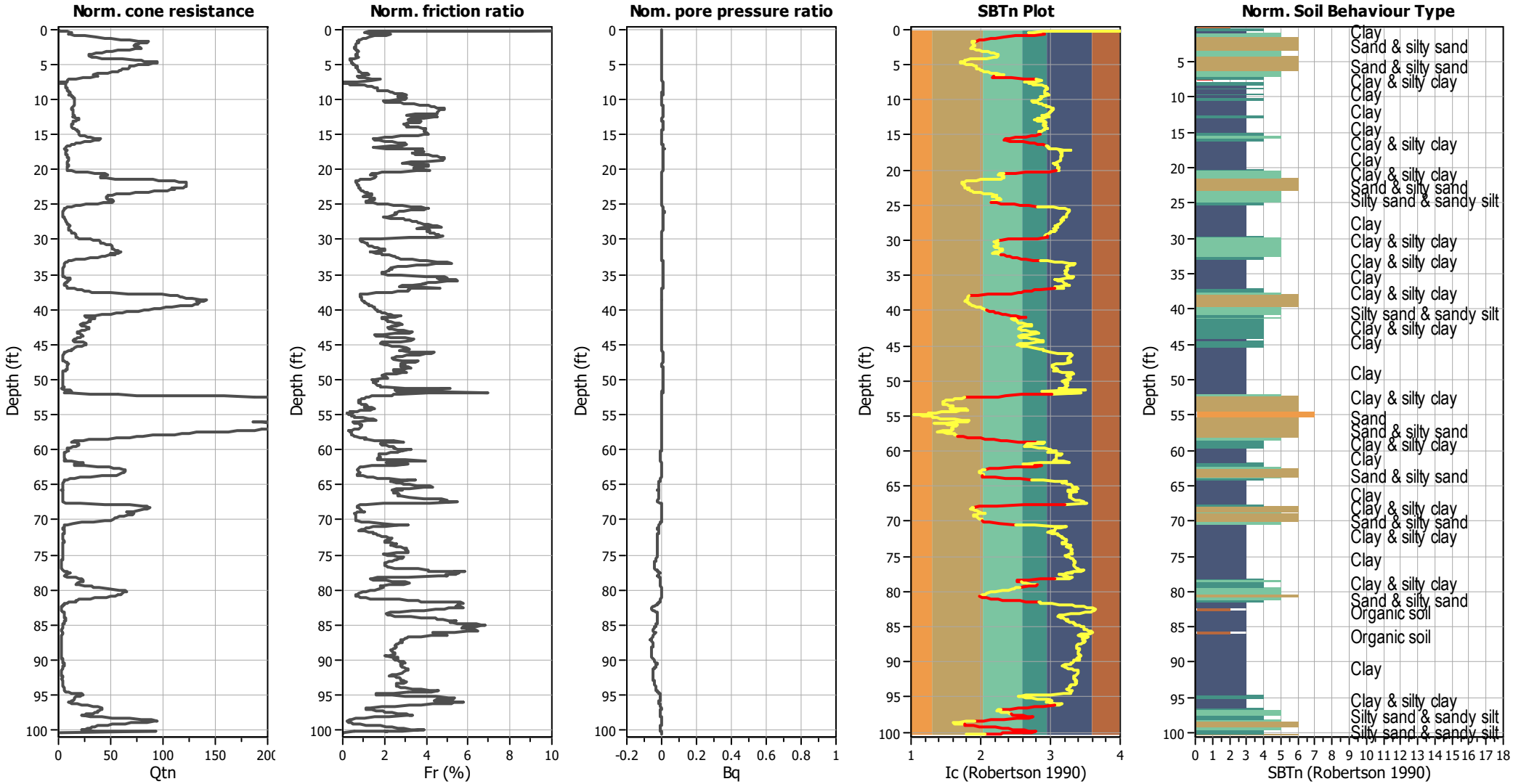

## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.12 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.42 | Use fill: | No | Limit depth applied: | Yes |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | 62.00 ft |

**SBT legend**

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

# CPT basic interpretation plots (normalized)



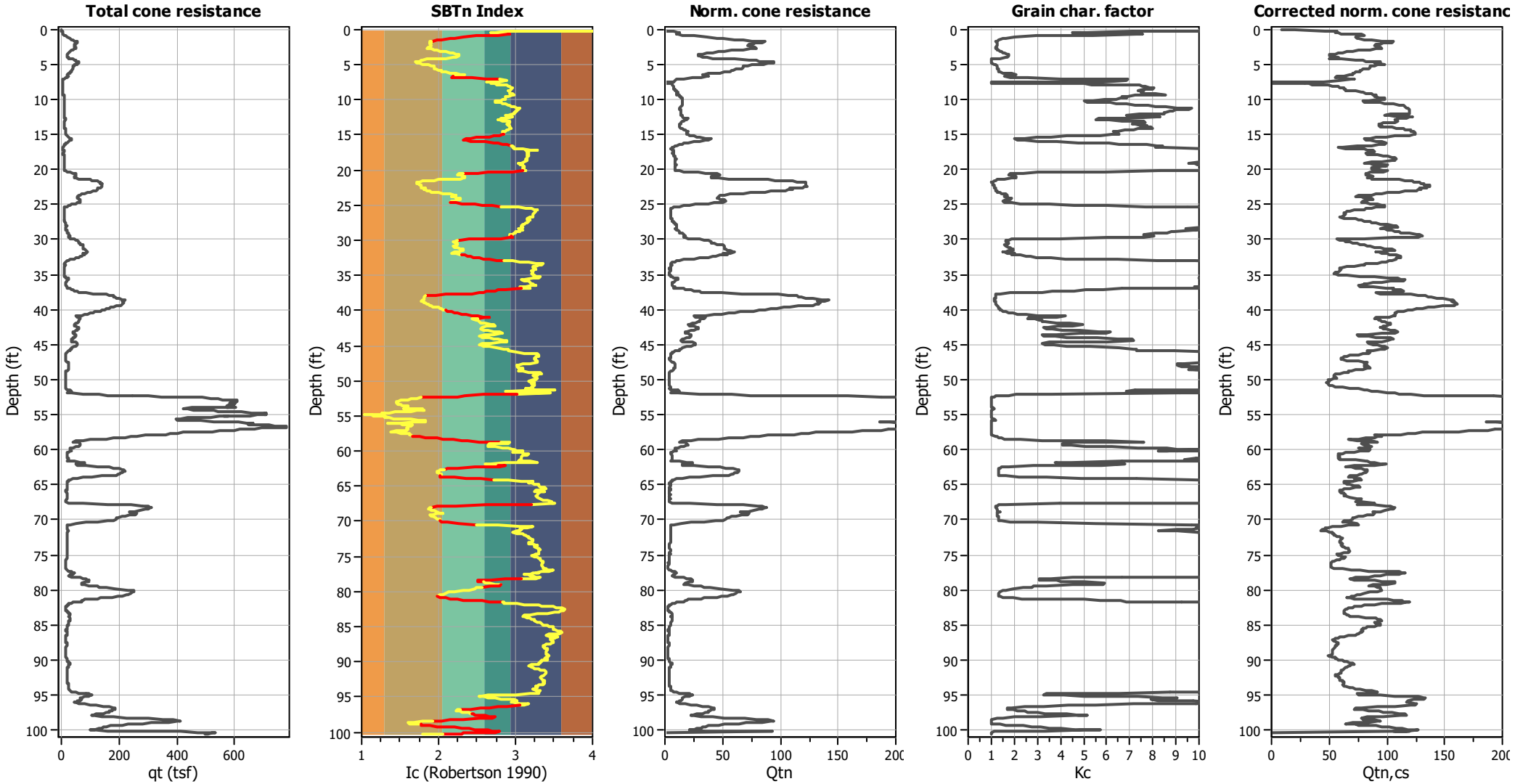

## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.12 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.42 | Use fill: | No | Limit depth applied: | Yes |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | 62.00 ft |

**SBTn legend**

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

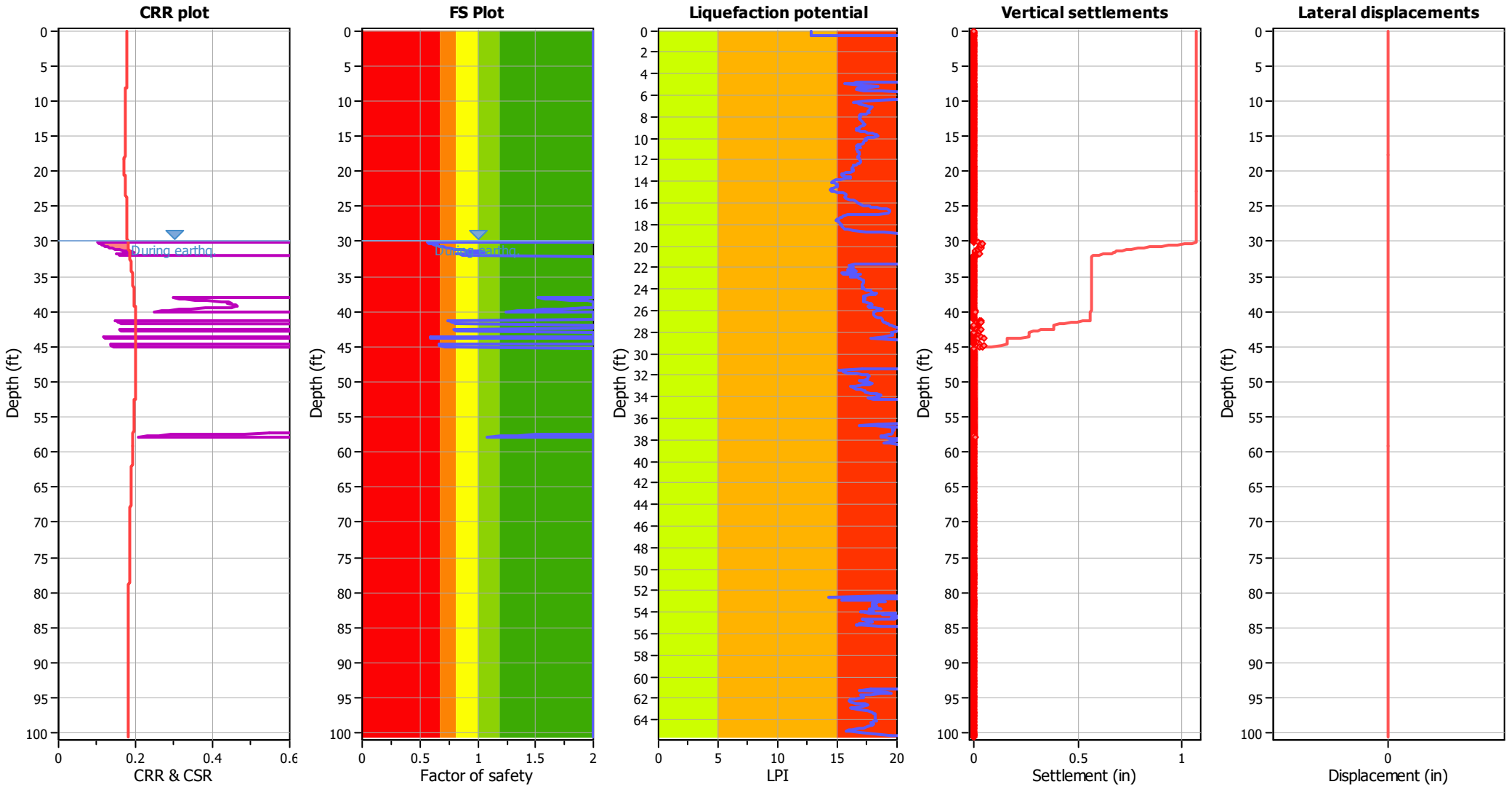
# Liquefaction analysis overall plots (intermediate results)




## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.12 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.42 | Use fill: | No | Limit depth applied: | Yes |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | 62.00 ft |

# Liquefaction analysis overall plots




## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.12 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.42 | Use fill: | No | Limit depth applied: | Yes |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | 62.00 ft |

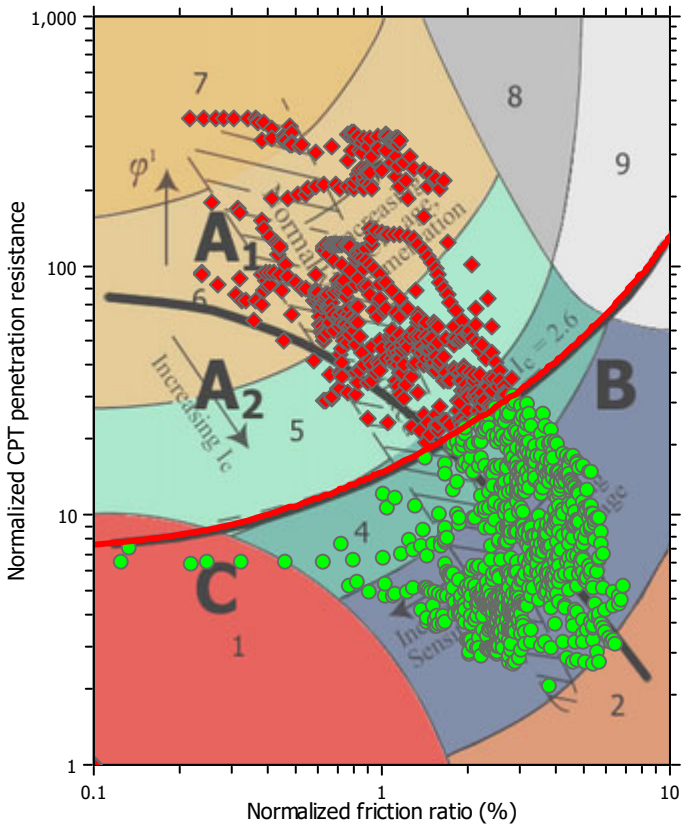
**F.S. color scheme**

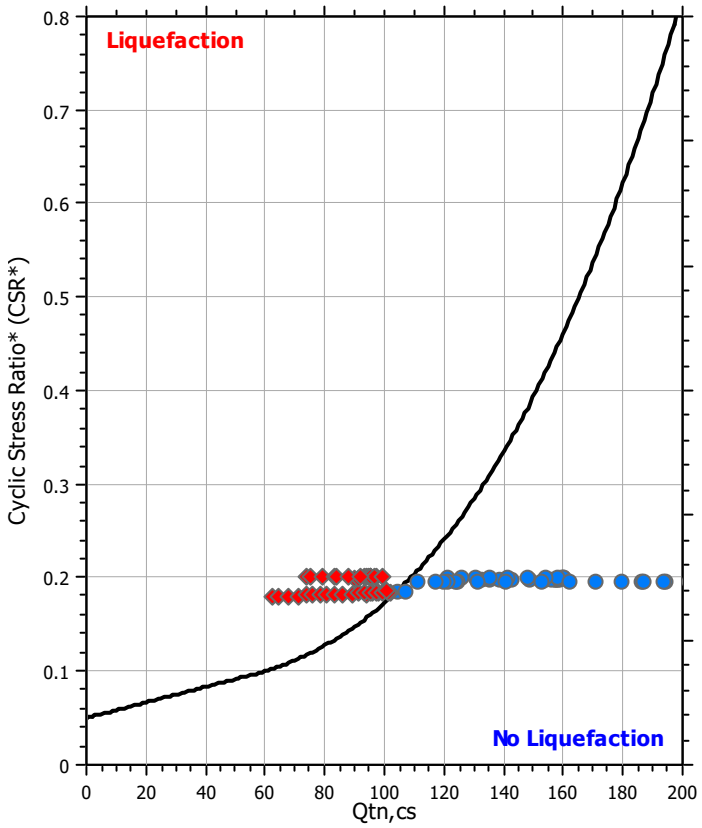
- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

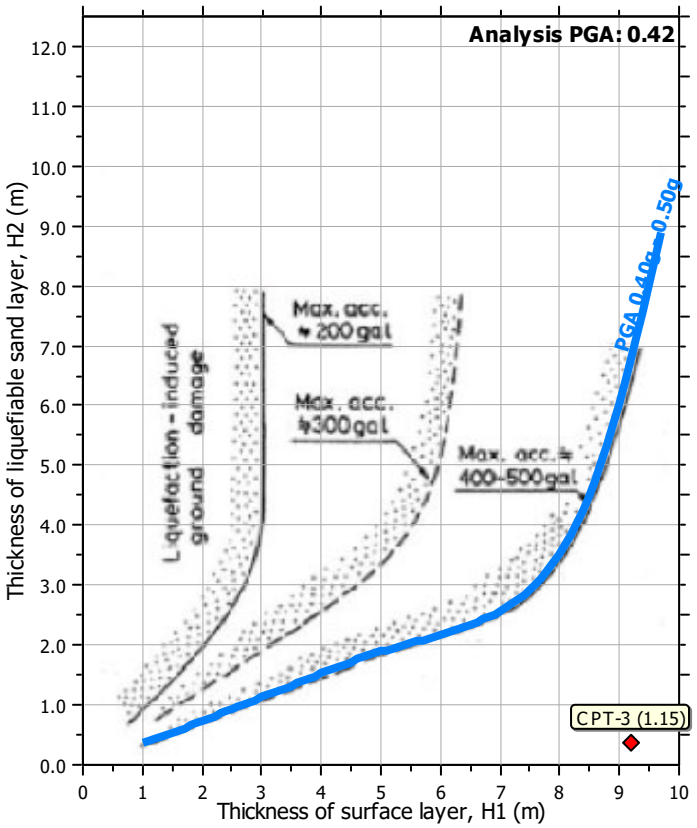
**LPI color scheme**

- Very high risk
- High risk
- Low risk

# Liquefaction analysis summary plots



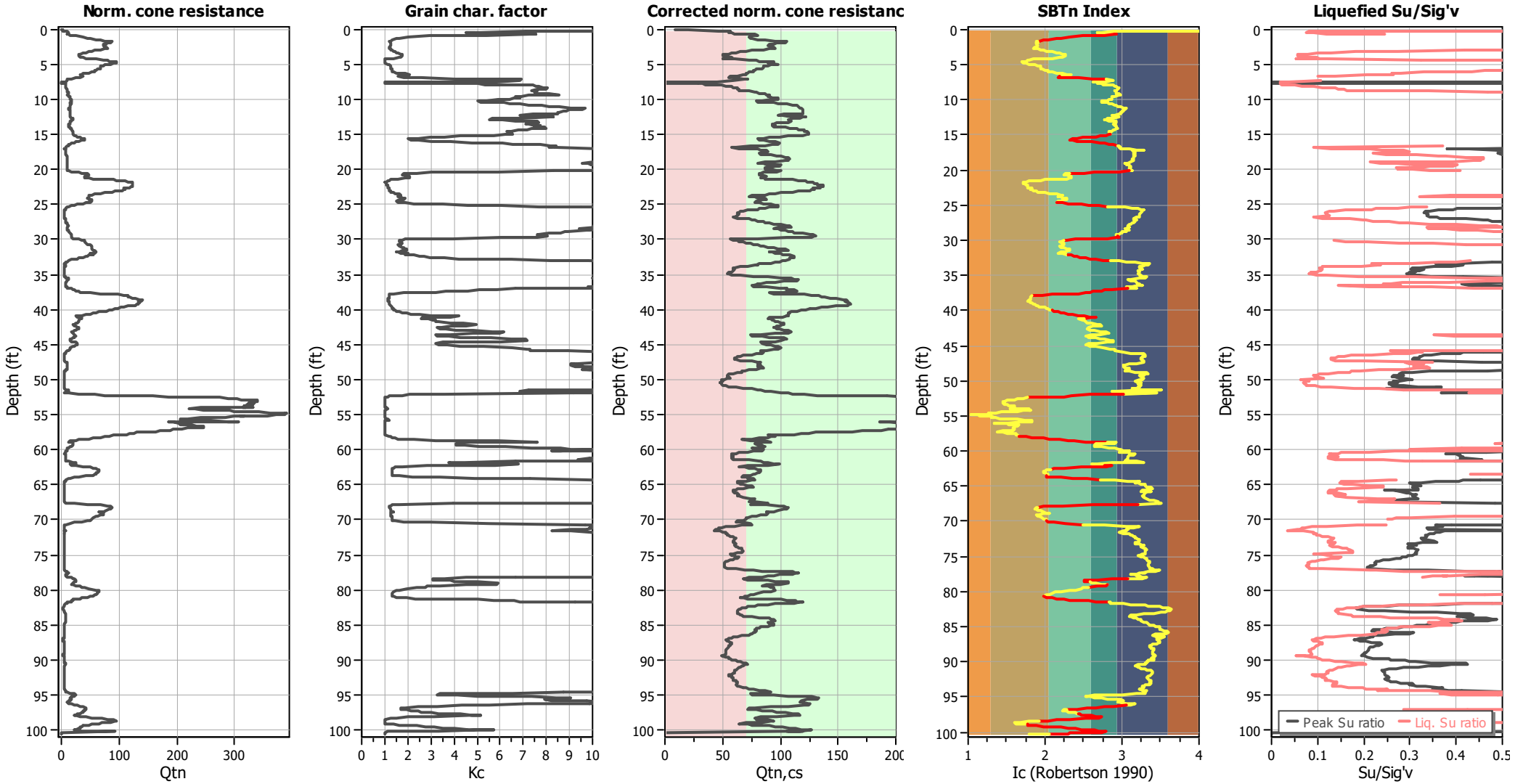




**Input parameters and analysis data**

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.12 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.42 | Use fill: | No | Limit depth applied: | Yes |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | 62.00 ft |

# Check for strength loss plots (Robertson (2010))




## Input parameters and analysis data

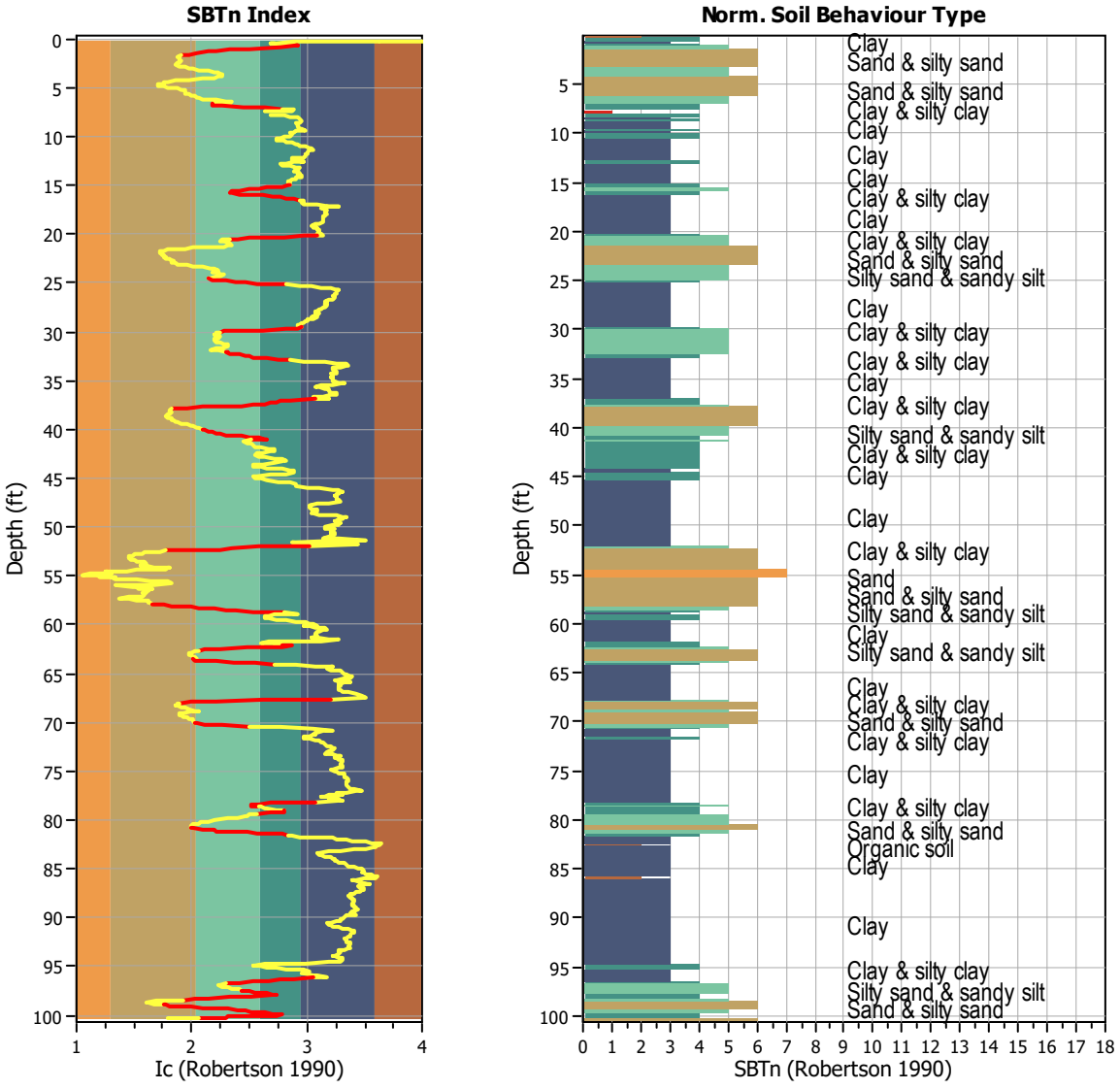
| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.12 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.42 | Use fill: | No | Limit depth applied: | Yes |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | 62.00 ft |

# TRANSITION LAYER DETECTION ALGORITHM REPORT
## Summary Details & Plots

**Short description**

The software will delete data when the cone is in transition from either clay to sand or vise-versa. To do this the software requires a range of $I_c$ values over which the transition will be defined (typically somewhere between $1.80 < I_c < 3.0$) and a rate of change of $I_c$. Transitions typically occur when the rate of change of $I_c$ is fast (i.e. delta $I_c$ is small).

The $SBT_n$ plot below, displays in red the detected transition layers based on the parameters listed below the graphs.




**Transition layer algorithm properties**

| | |
|---|---|
| $I_c$ minimum check value: | 1.70 |
| $I_c$ maximum check value: | 3.00 |
| $I_c$ change ratio value: | 0.0250 |
| Minimum number of points in layer: | 4 |

**General statistics**

| | |
|---|---|
| Total points in CPT file: | 1376 |
| Total points excluded: | 224 |
| Exclusion percentage: | 16.28% |
| Number of layers detected: | 26 |

| Transition layer No | Number of points | Depth | $SBT_n$ number | $SBT_n$ description |
|---|---|---|---|---|
| Transition layer 1 | 12 | Start depth: 0.72 (ft) | 3 | Clay |
| | | End depth: 1.74 (ft) | 6 | Sand & silty sand |
| Transition layer 2 | 6 | Start depth: 6.76 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 7.19 (ft) | 4 | Clay & silty clay |
| Transition layer 3 | 9 | Start depth: 14.99 (ft) | 3 | Clay |
| | | End depth: 15.67 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 4 | 11 | Start depth: 15.76 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 16.58 (ft) | 3 | Clay |
| Transition layer 5 | 7 | Start depth: 20.21 (ft) | 3 | Clay |
| | | End depth: 20.60 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 6 | 9 | Start depth: 24.64 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 25.27 (ft) | 3 | Clay |
| Transition layer 7 | 8 | Start depth: 29.55 (ft) | 3 | Clay |
| | | End depth: 30.13 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 8 | 12 | Start depth: 32.12 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 32.98 (ft) | 3 | Clay |
| Transition layer 9 | 15 | Start depth: 36.97 (ft) | 3 | Clay |
| | | End depth: 37.97 (ft) | 6 | Sand & silty sand |
| Transition layer 10 | 12 | Start depth: 40.09 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 40.97 (ft) | 4 | Clay & silty clay |
| Transition layer 11 | 4 | Start depth: 40.97 (ft) | 4 | Clay & silty clay |
| | | End depth: 41.15 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 12 | 8 | Start depth: 52.01 (ft) | 4 | Clay & silty clay |
| | | End depth: 52.45 (ft) | 6 | Sand & silty sand |
| Transition layer 13 | 14 | Start depth: 57.92 (ft) | 6 | Sand & silty sand |
| | | End depth: 58.84 (ft) | 3 | Clay |
| Transition layer 14 | 7 | Start depth: 62.10 (ft) | 3 | Clay |
| | | End depth: 62.74 (ft) | 6 | Sand & silty sand |
| Transition layer 15 | 7 | Start depth: 63.61 (ft) | 6 | Sand & silty sand |
| | | End depth: 64.15 (ft) | 3 | Clay |
| Transition layer 16 | 5 | Start depth: 67.68 (ft) | 4 | Clay & silty clay |
| | | End depth: 68.07 (ft) | 6 | Sand & silty sand |
| Transition layer 17 | 5 | Start depth: 70.08 (ft) | 6 | Sand & silty sand |
| | | End depth: 70.54 (ft) | 4 | Clay & silty clay |
| Transition layer 18 | 4 | Start depth: 78.24 (ft) | 4 | Clay & silty clay |
| | | End depth: 78.47 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 19 | 4 | Start depth: 78.53 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 78.69 (ft) | 4 | Clay & silty clay |
| Transition layer 20 | 4 | Start depth: 79.16 (ft) | 4 | Clay & silty clay |
| | | End depth: 79.45 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 21 | 15 | Start depth: 80.83 (ft) | 6 | Sand & silty sand |
| | | End depth: 81.56 (ft) | 3 | Clay |
| Transition layer 22 | 7 | Start depth: 96.30 (ft) | 3 | Clay |
| | | End depth: 96.87 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 23 | 8 | Start depth: 97.45 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 97.88 (ft) | 4 | Clay & silty clay |

| Transition layer No | Number of points | Depth | $SBT_n$ number | $SBT_n$ description |
|---|---|---|---|---|
| Transition layer 24 | 8 | Start depth: 97.88 (ft) | 4 | Clay & silty clay |
| | | End depth: 98.47 (ft) | 6 | Sand & silty sand |
| Transition layer 25 | 14 | Start depth: 98.98 (ft) | 6 | Sand & silty sand |
| | | End depth: 99.95 (ft) | 3 | Clay |
| Transition layer 26 | 9 | Start depth: 99.95 (ft) | 3 | Clay |
| | | End depth: 100.28 (ft) | 6 | Sand & silty sand |

Start depth: Depth where the transition layer begins
End depth: Depth where the transition layer ends

**:: Field input data ::**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1 | 0.04 | 0.10 | 0.03 | 0.00 | 100.00 | 87.36 |
| 2 | 0.10 | 0.10 | 0.04 | 0.00 | 100.00 | 87.36 |
| 3 | 0.11 | 0.20 | 0.05 | 0.00 | 100.00 | 87.36 |
| 4 | 0.16 | 0.40 | 0.05 | 0.00 | 100.00 | 87.36 |
| 5 | 0.19 | 1.01 | 0.05 | 0.00 | 100.00 | 88.74 |
| 6 | 0.24 | 2.43 | 0.05 | 0.00 | 71.90 | 91.34 |
| 7 | 0.31 | 5.06 | 0.06 | 0.00 | 51.48 | 93.80 |
| 8 | 0.38 | 7.29 | 0.07 | 0.00 | 42.56 | 95.48 |
| 9 | 0.43 | 7.69 | 0.08 | 0.00 | 39.63 | 96.43 |
| 10 | 0.49 | 7.69 | 0.08 | 0.00 | 41.35 | 96.84 |
| 11 | 0.58 | 6.58 | 0.09 | 0.00 | 44.64 | 97.26 |
| 12 | 0.63 | 6.17 | 0.10 | 0.00 | 49.07 | 97.85 |
| 13 | 0.67 | 5.97 | 0.11 | 0.00 | 51.93 | 98.72 |
| 14 | 0.72 | 6.02 | 0.13 | 0.00 | 53.54 | 99.42 |
| 15 | 0.72 | 6.07 | 0.13 | 0.00 | 52.47 | 101.17 |
| 16 | 0.84 | 8.00 | 0.20 | 0.00 | 44.02 | 103.62 |
| 17 | 0.96 | 13.76 | 0.25 | 0.00 | 30.61 | 106.61 |
| 18 | 1.06 | 25.71 | 0.28 | 0.10 | 23.44 | 108.76 |
| 19 | 1.24 | 28.44 | 0.33 | 0.10 | 19.50 | 109.81 |
| 20 | 1.30 | 29.76 | 0.31 | 0.10 | 17.10 | 110.05 |
| 21 | 1.48 | 36.23 | 0.28 | 0.10 | 14.00 | 110.41 |
| 22 | 1.59 | 45.85 | 0.33 | 0.10 | 12.36 | 111.13 |
| 23 | 1.69 | 44.33 | 0.37 | 0.10 | 11.12 | 112.10 |
| 24 | 1.69 | 52.02 | 0.37 | 0.10 | 10.74 | 112.65 |
| 25 | 1.74 | 53.04 | 0.39 | 0.10 | 9.92 | 112.99 |
| 26 | 1.79 | 54.66 | 0.40 | 0.10 | 9.87 | 113.14 |
| 27 | 1.84 | 53.64 | 0.39 | 0.10 | 10.04 | 113.01 |
| 28 | 1.88 | 50.40 | 0.38 | 0.10 | 10.26 | 112.64 |
| 29 | 1.93 | 49.70 | 0.35 | 0.10 | 10.40 | 112.09 |
| 30 | 1.99 | 48.28 | 0.32 | 0.10 | 10.27 | 111.60 |
| 31 | 2.03 | 48.08 | 0.31 | 0.10 | 10.19 | 111.23 |
| 32 | 2.08 | 47.87 | 0.31 | 0.10 | 10.14 | 110.98 |
| 33 | 2.13 | 47.06 | 0.29 | 0.10 | 10.28 | 110.80 |
| 34 | 2.22 | 45.65 | 0.30 | 0.10 | 10.49 | 110.61 |
| 35 | 2.27 | 44.84 | 0.29 | 0.10 | 10.68 | 110.44 |
| 36 | 2.33 | 44.43 | 0.28 | 0.10 | 10.61 | 110.26 |
| 37 | 2.42 | 45.04 | 0.28 | 0.10 | 10.34 | 110.23 |
| 38 | 2.48 | 46.86 | 0.28 | 0.10 | 9.95 | 110.30 |
| 39 | 2.56 | 48.28 | 0.28 | 0.10 | 9.56 | 110.53 |
| 40 | 2.65 | 50.10 | 0.29 | 0.10 | 9.36 | 110.70 |
| 41 | 2.72 | 49.90 | 0.29 | 0.10 | 9.62 | 110.74 |
| 42 | 2.80 | 46.15 | 0.29 | 0.10 | 10.31 | 110.44 |
| 43 | 2.89 | 42.00 | 0.28 | 0.10 | 11.29 | 109.97 |
| 44 | 2.94 | 39.17 | 0.26 | 0.10 | 12.40 | 109.53 |
| 45 | 3.04 | 35.93 | 0.26 | 0.10 | 13.48 | 109.00 |
| 46 | 3.14 | 32.59 | 0.24 | 0.10 | 14.78 | 108.19 |
| 47 | 3.23 | 28.44 | 0.21 | 0.10 | 15.91 | 107.05 |
| 48 | 3.31 | 26.01 | 0.18 | 0.10 | 17.31 | 105.88 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 49 | 3.37 | 22.77 | 0.17 | 0.10 | 18.64 | 104.75 |
| 50 | 3.48 | 20.34 | 0.15 | 0.10 | 20.16 | 103.47 |
| 51 | 3.57 | 18.02 | 0.12 | 0.10 | 20.83 | 102.23 |
| 52 | 3.65 | 18.02 | 0.11 | 0.10 | 20.99 | 101.38 |
| 53 | 3.71 | 18.02 | 0.11 | 0.10 | 20.91 | 101.29 |
| 54 | 3.82 | 18.02 | 0.11 | 0.10 | 20.93 | 102.11 |
| 55 | 3.91 | 19.84 | 0.15 | 0.10 | 20.16 | 103.21 |
| 56 | 4.00 | 22.67 | 0.16 | 0.10 | 18.85 | 104.71 |
| 57 | 4.10 | 25.91 | 0.19 | 0.10 | 15.53 | 104.42 |
| 58 | 4.19 | 30.57 | 0.11 | 0.10 | 5.00 | 104.40 |
| 59 | 4.26 | 37.15 | 0.13 | 0.10 | 5.00 | 104.51 |
| 60 | 4.35 | 46.05 | 0.17 | 0.10 | 5.00 | 106.46 |
| 61 | 4.44 | 53.64 | 0.20 | 0.19 | 5.00 | 107.75 |
| 62 | 4.52 | 49.70 | 0.21 | 0.19 | 5.00 | 108.36 |
| 63 | 4.53 | 50.81 | 0.21 | 0.19 | 5.00 | 108.59 |
| 64 | 4.58 | 56.27 | 0.21 | 0.19 | 5.00 | 108.81 |
| 65 | 4.63 | 58.00 | 0.22 | 0.19 | 5.00 | 109.16 |
| 66 | 4.68 | 59.01 | 0.23 | 0.19 | 5.00 | 109.49 |
| 67 | 4.72 | 59.51 | 0.24 | 0.19 | 5.00 | 109.83 |
| 68 | 4.77 | 59.31 | 0.25 | 0.19 | 5.00 | 110.07 |
| 69 | 4.82 | 58.40 | 0.26 | 0.19 | 5.00 | 110.22 |
| 70 | 4.88 | 56.48 | 0.26 | 0.19 | 5.00 | 110.30 |
| 71 | 4.96 | 53.74 | 0.27 | 0.19 | 7.94 | 110.33 |
| 72 | 5.01 | 50.61 | 0.27 | 0.19 | 8.80 | 110.33 |
| 73 | 5.08 | 47.27 | 0.28 | 0.19 | 9.75 | 110.30 |
| 74 | 5.16 | 44.43 | 0.28 | 0.19 | 10.61 | 110.22 |
| 75 | 5.21 | 42.71 | 0.28 | 0.19 | 11.15 | 110.15 |
| 76 | 5.30 | 42.66 | 0.28 | 0.19 | 11.35 | 110.11 |
| 77 | 5.37 | 42.66 | 0.28 | 0.19 | 11.37 | 110.11 |
| 78 | 5.45 | 42.61 | 0.28 | 0.19 | 11.35 | 110.10 |
| 79 | 5.52 | 42.81 | 0.28 | 0.19 | 11.43 | 110.08 |
| 80 | 5.59 | 41.90 | 0.28 | 0.19 | 11.67 | 109.99 |
| 81 | 5.65 | 40.38 | 0.27 | 0.19 | 12.17 | 109.79 |
| 82 | 5.74 | 38.16 | 0.27 | 0.19 | 12.78 | 109.59 |
| 83 | 5.83 | 36.84 | 0.27 | 0.19 | 13.36 | 109.47 |
| 84 | 5.89 | 36.23 | 0.27 | 0.29 | 13.78 | 109.49 |
| 85 | 5.97 | 35.83 | 0.27 | 0.29 | 14.10 | 109.46 |
| 86 | 6.07 | 34.92 | 0.27 | 0.29 | 14.65 | 109.36 |
| 87 | 6.12 | 32.79 | 0.27 | 0.29 | 15.67 | 109.20 |
| 88 | 6.22 | 29.96 | 0.27 | 0.29 | 17.39 | 109.00 |
| 89 | 6.28 | 26.52 | 0.27 | 0.29 | 19.71 | 108.75 |
| 90 | 6.36 | 23.18 | 0.27 | 0.29 | 22.24 | 108.30 |
| 91 | 6.46 | 20.65 | 0.26 | 0.29 | 24.09 | 107.75 |
| 92 | 6.52 | 20.04 | 0.24 | 0.29 | 23.83 | 106.97 |
| 93 | 6.60 | 21.46 | 0.20 | 0.29 | 21.15 | 106.06 |
| 94 | 6.70 | 24.70 | 0.16 | 0.29 | 18.41 | 104.86 |
| 95 | 6.76 | 24.49 | 0.14 | 0.29 | 18.15 | 104.05 |
| 96 | 6.84 | 19.84 | 0.15 | 0.29 | 21.31 | 103.55 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 97 | 6.94 | 14.57 | 0.15 | 0.29 | 28.13 | 103.13 |
| 98 | 7.03 | 10.32 | 0.15 | 0.29 | 36.85 | 102.17 |
| 99 | 7.13 | 7.69 | 0.14 | 0.29 | 45.33 | 101.02 |
| 100 | 7.19 | 6.68 | 0.13 | 0.29 | 50.80 | 99.02 |
| 101 | 7.32 | 5.47 | 0.08 | 0.29 | 50.53 | 95.58 |
| 102 | 7.42 | 5.16 | 0.02 | 0.29 | 46.05 | 89.63 |
| 103 | 7.49 | 4.86 | 0.01 | 0.29 | 36.85 | 87.36 |
| 104 | 7.57 | 4.76 | -0.01 | 0.29 | N/A | 87.36 |
| 105 | 7.66 | 4.55 | 0.00 | 0.29 | N/A | 87.36 |
| 106 | 7.76 | 4.35 | 0.01 | 0.29 | 39.30 | 87.36 |
| 107 | 7.77 | 4.40 | 0.01 | 0.29 | 41.66 | 87.36 |
| 108 | 7.78 | 4.40 | 0.01 | 0.29 | 42.16 | 87.36 |
| 109 | 7.82 | 4.45 | 0.01 | 0.29 | 43.69 | 87.36 |
| 110 | 7.87 | 4.45 | 0.02 | 0.29 | 46.05 | 87.36 |
| 111 | 7.92 | 4.45 | 0.03 | 0.29 | 48.69 | 87.36 |
| 112 | 7.97 | 4.45 | 0.03 | 0.29 | 50.96 | 88.91 |
| 113 | 8.01 | 4.55 | 0.04 | 0.29 | 52.87 | 90.83 |
| 114 | 8.06 | 4.76 | 0.05 | 0.29 | 53.56 | 92.24 |
| 115 | 8.11 | 4.96 | 0.06 | 0.29 | 53.89 | 93.35 |
| 116 | 8.20 | 5.06 | 0.06 | 0.29 | 54.02 | 94.10 |
| 117 | 8.26 | 5.16 | 0.07 | 0.29 | 54.67 | 94.95 |
| 118 | 8.35 | 5.26 | 0.08 | 0.29 | 55.25 | 95.57 |
| 119 | 8.40 | 5.26 | 0.08 | 0.38 | 55.42 | 95.96 |
| 120 | 8.49 | 5.36 | 0.08 | 0.38 | 55.15 | 96.13 |
| 121 | 8.54 | 5.47 | 0.08 | 0.38 | 54.56 | 96.42 |
| 122 | 8.64 | 5.67 | 0.09 | 0.38 | 53.58 | 96.77 |
| 123 | 8.69 | 5.97 | 0.09 | 0.38 | 52.70 | 97.12 |
| 124 | 8.79 | 6.07 | 0.09 | 0.38 | 53.07 | 98.37 |
| 125 | 8.84 | 6.48 | 0.14 | 0.38 | 53.64 | 99.77 |
| 126 | 8.93 | 6.88 | 0.15 | 0.38 | 53.23 | 100.93 |
| 127 | 9.03 | 7.29 | 0.15 | 0.38 | 53.10 | 101.61 |
| 128 | 9.08 | 7.19 | 0.17 | 0.38 | 53.34 | 101.99 |
| 129 | 9.11 | 7.14 | 0.18 | 0.38 | 54.44 | 102.35 |
| 130 | 9.12 | 7.14 | 0.18 | 0.38 | 54.87 | 102.44 |
| 131 | 9.17 | 7.08 | 0.18 | 0.38 | 55.46 | 102.54 |
| 132 | 9.22 | 6.98 | 0.19 | 0.38 | 55.68 | 102.79 |
| 133 | 9.31 | 7.29 | 0.19 | 0.38 | 57.60 | 103.02 |
| 134 | 9.36 | 6.48 | 0.20 | 0.38 | 56.84 | 103.40 |
| 135 | 9.40 | 7.69 | 0.21 | 0.38 | 55.49 | 103.68 |
| 136 | 9.46 | 8.20 | 0.21 | 0.38 | 52.20 | 104.01 |
| 137 | 9.51 | 8.50 | 0.21 | 0.38 | 50.78 | 104.20 |
| 138 | 9.55 | 8.70 | 0.22 | 0.48 | 49.80 | 104.47 |
| 139 | 9.61 | 9.11 | 0.23 | 0.48 | 49.60 | 104.86 |
| 140 | 9.69 | 9.11 | 0.24 | 0.48 | 49.93 | 105.32 |
| 141 | 9.74 | 9.11 | 0.26 | 0.38 | 50.53 | 105.75 |
| 142 | 9.81 | 9.31 | 0.27 | 0.48 | 50.47 | 106.17 |
| 143 | 9.89 | 9.72 | 0.28 | 0.38 | 49.47 | 106.49 |
| 144 | 9.94 | 10.22 | 0.29 | 0.48 | 48.57 | 106.69 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 145 | 10.03 | 10.22 | 0.28 | 0.48 | 47.95 | 106.73 |
| 146 | 10.08 | 10.22 | 0.28 | 0.48 | 46.27 | 105.91 |
| 147 | 10.18 | 10.22 | 0.19 | 0.48 | 43.86 | 104.66 |
| 148 | 10.23 | 10.22 | 0.16 | 0.48 | 42.16 | 103.72 |
| 149 | 10.33 | 10.22 | 0.21 | 0.48 | 42.78 | 104.06 |
| 150 | 10.40 | 10.22 | 0.22 | 0.48 | 44.53 | 104.99 |
| 151 | 10.47 | 10.22 | 0.24 | 0.48 | 46.24 | 105.54 |
| 152 | 10.51 | 9.77 | 0.26 | 0.48 | 47.48 | 106.12 |
| 153 | 10.56 | 10.17 | 0.28 | 0.48 | 48.53 | 106.55 |
| 154 | 10.61 | 10.12 | 0.29 | 0.48 | 48.96 | 107.12 |
| 155 | 10.67 | 10.32 | 0.32 | 0.48 | 50.59 | 107.76 |
| 156 | 10.75 | 10.02 | 0.37 | 0.48 | 52.01 | 108.32 |
| 157 | 10.80 | 10.02 | 0.37 | 0.48 | 53.26 | 108.59 |
| 158 | 10.85 | 9.92 | 0.37 | 0.48 | 53.79 | 108.61 |
| 159 | 10.90 | 9.72 | 0.37 | 0.57 | 54.58 | 108.60 |
| 160 | 11.00 | 9.51 | 0.38 | 0.57 | 55.86 | 108.56 |
| 161 | 11.05 | 9.11 | 0.37 | 0.57 | 57.54 | 108.36 |
| 162 | 11.14 | 8.50 | 0.36 | 0.57 | 59.49 | 108.14 |
| 163 | 11.21 | 8.20 | 0.36 | 0.57 | 61.41 | 108.08 |
| 164 | 11.29 | 8.10 | 0.38 | 0.57 | 61.90 | 108.18 |
| 165 | 11.38 | 8.40 | 0.37 | 0.57 | 61.40 | 108.38 |
| 166 | 11.46 | 8.70 | 0.39 | 0.57 | 60.04 | 108.48 |
| 167 | 11.52 | 8.91 | 0.38 | 0.57 | 59.20 | 108.60 |
| 168 | 11.60 | 9.01 | 0.38 | 0.57 | 58.74 | 108.64 |
| 169 | 11.67 | 9.01 | 0.39 | 0.57 | 58.51 | 108.69 |
| 170 | 11.72 | 9.11 | 0.39 | 0.57 | 58.33 | 108.76 |
| 171 | 11.81 | 9.21 | 0.39 | 0.57 | 57.50 | 108.86 |
| 172 | 11.86 | 9.62 | 0.39 | 0.57 | 57.42 | 108.90 |
| 173 | 11.96 | 9.21 | 0.39 | 0.57 | 57.28 | 108.93 |
| 174 | 12.01 | 9.41 | 0.40 | 0.57 | 57.36 | 108.99 |
| 175 | 12.10 | 9.72 | 0.40 | 0.57 | 56.33 | 108.48 |
| 176 | 12.16 | 9.92 | 0.30 | 0.57 | 52.86 | 107.67 |
| 177 | 12.24 | 10.53 | 0.27 | 0.67 | 50.46 | 107.26 |
| 178 | 12.32 | 10.93 | 0.34 | 0.67 | 50.49 | 108.00 |
| 179 | 12.39 | 11.13 | 0.39 | 0.67 | 51.82 | 109.13 |
| 180 | 12.48 | 11.44 | 0.42 | 0.67 | 55.21 | 109.56 |
| 181 | 12.50 | 9.31 | 0.43 | 0.67 | 56.54 | 109.82 |
| 182 | 12.54 | 9.92 | 0.45 | 0.67 | 56.14 | 110.10 |
| 183 | 12.64 | 12.95 | 0.45 | 0.67 | 51.14 | 110.63 |
| 184 | 12.68 | 14.17 | 0.46 | 0.67 | 46.74 | 111.06 |
| 185 | 12.77 | 14.98 | 0.47 | 0.67 | 45.02 | 111.08 |
| 186 | 12.82 | 14.98 | 0.44 | 0.67 | 44.58 | 110.87 |
| 187 | 12.89 | 14.27 | 0.42 | 0.67 | 45.32 | 110.45 |
| 188 | 12.97 | 13.36 | 0.41 | 0.67 | 47.27 | 110.13 |
| 189 | 13.03 | 12.45 | 0.41 | 0.67 | 49.63 | 109.86 |
| 190 | 13.12 | 11.64 | 0.40 | 0.67 | 52.08 | 109.64 |
| 191 | 13.16 | 11.03 | 0.40 | 0.67 | 53.60 | 109.40 |
| 192 | 13.26 | 10.93 | 0.39 | 0.67 | 54.00 | 108.95 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 193 | 13.34 | 10.73 | 0.34 | 0.67 | 53.03 | 108.33 |
| 194 | 13.41 | 10.83 | 0.31 | 0.67 | 51.87 | 107.54 |
| 195 | 13.50 | 10.63 | 0.28 | 0.67 | 51.53 | 107.03 |
| 196 | 13.60 | 10.32 | 0.28 | 0.67 | 52.24 | 106.75 |
| 197 | 13.65 | 10.02 | 0.28 | 0.67 | 53.22 | 106.76 |
| 198 | 13.75 | 10.02 | 0.29 | 0.67 | 54.12 | 106.90 |
| 199 | 13.80 | 10.02 | 0.30 | 0.67 | 53.54 | 106.72 |
| 200 | 13.89 | 10.22 | 0.26 | 0.67 | 53.46 | 106.90 |
| 201 | 13.94 | 10.42 | 0.31 | 0.76 | 53.08 | 107.50 |
| 202 | 14.03 | 11.23 | 0.37 | 0.76 | 54.97 | 108.63 |
| 203 | 14.11 | 10.73 | 0.41 | 0.76 | 55.24 | 109.48 |
| 204 | 14.13 | 11.69 | 0.42 | 0.76 | 55.28 | 110.03 |
| 205 | 14.18 | 12.15 | 0.45 | 0.76 | 53.47 | 110.47 |
| 206 | 14.22 | 12.95 | 0.46 | 0.76 | 52.62 | 110.95 |
| 207 | 14.28 | 13.36 | 0.49 | 0.76 | 51.87 | 111.50 |
| 208 | 14.37 | 13.97 | 0.53 | 0.76 | 51.36 | 112.04 |
| 209 | 14.44 | 14.68 | 0.56 | 0.76 | 50.25 | 112.56 |
| 210 | 14.51 | 15.69 | 0.58 | 0.76 | 48.93 | 112.99 |
| 211 | 14.60 | 16.50 | 0.60 | 0.76 | 48.02 | 113.34 |
| 212 | 14.65 | 16.70 | 0.62 | 0.76 | 47.94 | 113.59 |
| 213 | 14.75 | 16.50 | 0.63 | 0.76 | 48.44 | 113.74 |
| 214 | 14.85 | 16.45 | 0.64 | 0.76 | 48.93 | 113.80 |
| 215 | 14.91 | 16.45 | 0.63 | 0.76 | 49.08 | 113.80 |
| 216 | 14.99 | 16.40 | 0.63 | 0.76 | 47.80 | 113.81 |
| 217 | 15.09 | 18.12 | 0.62 | 0.76 | 45.25 | 113.98 |
| 218 | 15.18 | 20.34 | 0.63 | 0.76 | 41.64 | 114.15 |
| 219 | 15.25 | 22.37 | 0.61 | 0.76 | 38.13 | 114.10 |
| 220 | 15.33 | 24.09 | 0.55 | 0.76 | 34.47 | 113.87 |
| 221 | 15.43 | 27.02 | 0.52 | 0.76 | 30.57 | 113.72 |
| 222 | 15.51 | 31.38 | 0.52 | 0.76 | 26.98 | 113.86 |
| 223 | 15.59 | 35.53 | 0.52 | 0.76 | 24.54 | 114.07 |
| 224 | 15.67 | 36.94 | 0.52 | 0.76 | 23.56 | 114.17 |
| 225 | 15.76 | 36.03 | 0.51 | 0.86 | 24.48 | 114.23 |
| 226 | 15.86 | 32.39 | 0.54 | 0.76 | 26.98 | 114.13 |
| 227 | 15.95 | 27.63 | 0.54 | 0.76 | 31.02 | 113.82 |
| 228 | 16.05 | 22.87 | 0.53 | 0.76 | 35.88 | 113.11 |
| 229 | 16.14 | 18.72 | 0.48 | 0.76 | 40.89 | 112.24 |
| 230 | 16.20 | 16.30 | 0.45 | 0.76 | 44.59 | 111.36 |
| 231 | 16.28 | 15.49 | 0.42 | 0.76 | 47.26 | 110.71 |
| 232 | 16.34 | 14.17 | 0.41 | 0.76 | 49.02 | 109.97 |
| 233 | 16.44 | 12.95 | 0.36 | 0.76 | 51.62 | 109.16 |
| 234 | 16.50 | 11.64 | 0.33 | 0.86 | 54.21 | 108.05 |
| 235 | 16.58 | 10.22 | 0.29 | 0.76 | 56.10 | 106.16 |
| 236 | 16.73 | 8.60 | 0.17 | 0.86 | 57.07 | 103.07 |
| 237 | 16.82 | 7.39 | 0.09 | 0.76 | 55.90 | 98.94 |
| 238 | 16.92 | 6.78 | 0.07 | 0.86 | 56.73 | 97.37 |
| 239 | 17.01 | 6.98 | 0.12 | 0.86 | 64.41 | 99.23 |
| 240 | 17.11 | 5.87 | 0.17 | 0.86 | 72.33 | 101.23 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 241 | 17.12 | 5.72 | 0.19 | 0.86 | 79.64 | 102.14 |
| 242 | 17.14 | 5.57 | 0.19 | 0.86 | 75.40 | 102.95 |
| 243 | 17.19 | 7.69 | 0.22 | 0.86 | 70.99 | 103.97 |
| 244 | 17.28 | 8.10 | 0.25 | 0.86 | 67.48 | 104.99 |
| 245 | 17.33 | 8.00 | 0.26 | 0.86 | 68.61 | 105.59 |
| 246 | 17.43 | 7.89 | 0.28 | 0.86 | 70.20 | 105.75 |
| 247 | 17.47 | 7.69 | 0.27 | 0.86 | 70.55 | 105.46 |
| 248 | 17.57 | 7.59 | 0.24 | 0.86 | 70.29 | 104.78 |
| 249 | 17.65 | 7.39 | 0.21 | 0.86 | 69.39 | 104.05 |
| 250 | 17.72 | 7.39 | 0.21 | 0.86 | 69.90 | 104.00 |
| 251 | 17.81 | 7.39 | 0.23 | 0.86 | 69.98 | 104.48 |
| 252 | 17.86 | 7.89 | 0.25 | 0.86 | 70.40 | 105.52 |
| 253 | 17.95 | 8.30 | 0.30 | 0.86 | 70.27 | 106.61 |
| 254 | 18.05 | 8.70 | 0.35 | 0.86 | 69.77 | 107.59 |
| 255 | 18.10 | 9.31 | 0.36 | 0.86 | 69.28 | 108.43 |
| 256 | 18.20 | 9.62 | 0.41 | 0.86 | 68.75 | 109.17 |
| 257 | 18.30 | 10.02 | 0.44 | 0.86 | 69.06 | 109.74 |
| 258 | 18.39 | 10.02 | 0.45 | 0.86 | 68.69 | 110.03 |
| 259 | 18.48 | 10.32 | 0.45 | 0.86 | 68.26 | 110.09 |
| 260 | 18.58 | 10.42 | 0.45 | 0.86 | 68.26 | 110.10 |
| 261 | 18.66 | 10.12 | 0.45 | 0.86 | 68.67 | 110.00 |
| 262 | 18.74 | 10.02 | 0.43 | 0.86 | 68.65 | 109.66 |
| 263 | 18.87 | 10.02 | 0.39 | 0.86 | 65.89 | 108.15 |
| 264 | 18.97 | 9.62 | 0.22 | 0.86 | 63.51 | 106.58 |
| 265 | 19.06 | 9.31 | 0.24 | 0.96 | 61.57 | 105.45 |
| 266 | 19.16 | 9.72 | 0.27 | 0.86 | 62.59 | 106.45 |
| 267 | 19.25 | 10.42 | 0.32 | 0.96 | 62.93 | 107.21 |
| 268 | 19.27 | 10.22 | 0.32 | 0.86 | 63.88 | 107.82 |
| 269 | 19.30 | 10.02 | 0.35 | 0.96 | 64.63 | 108.39 |
| 270 | 19.34 | 10.83 | 0.39 | 0.96 | 65.30 | 109.05 |
| 271 | 19.39 | 10.83 | 0.41 | 0.96 | 65.04 | 109.46 |
| 272 | 19.49 | 10.83 | 0.41 | 0.96 | 65.33 | 109.38 |
| 273 | 19.55 | 10.63 | 0.38 | 0.96 | 65.79 | 108.98 |
| 274 | 19.63 | 10.02 | 0.36 | 0.96 | 66.38 | 108.45 |
| 275 | 19.68 | 9.82 | 0.34 | 0.96 | 66.57 | 107.82 |
| 276 | 19.74 | 9.72 | 0.30 | 0.96 | 65.75 | 107.23 |
| 277 | 19.83 | 9.72 | 0.28 | 0.96 | 65.45 | 106.97 |
| 278 | 19.87 | 9.72 | 0.31 | 0.96 | 65.22 | 106.85 |
| 279 | 19.94 | 9.72 | 0.29 | 0.96 | 66.15 | 107.18 |
| 280 | 20.02 | 9.72 | 0.33 | 0.96 | 67.03 | 107.64 |
| 281 | 20.07 | 9.92 | 0.36 | 0.96 | 67.92 | 108.78 |
| 282 | 20.17 | 10.83 | 0.44 | 0.96 | 64.62 | 109.94 |
| 283 | 20.21 | 13.46 | 0.47 | 0.96 | 56.54 | 111.19 |
| 284 | 20.28 | 18.22 | 0.50 | 0.96 | 46.28 | 112.30 |
| 285 | 20.36 | 24.49 | 0.52 | 1.05 | 37.36 | 113.43 |
| 286 | 20.41 | 31.88 | 0.56 | 1.05 | 30.98 | 114.57 |
| 287 | 20.48 | 38.76 | 0.62 | 1.05 | 26.57 | 115.62 |
| 288 | 20.55 | 45.24 | 0.66 | 1.05 | 23.46 | 116.43 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 289 | 20.60 | 50.91 | 0.67 | 1.05 | 21.46 | 116.95 |
| 290 | 20.70 | 53.44 | 0.69 | 1.05 | 20.55 | 117.24 |
| 291 | 20.74 | 53.24 | 0.71 | 1.05 | 20.71 | 117.40 |
| 292 | 20.79 | 51.32 | 0.72 | 1.05 | 21.66 | 117.54 |
| 293 | 20.89 | 48.89 | 0.76 | 1.05 | 23.50 | 117.89 |
| 294 | 20.96 | 45.85 | 0.85 | 0.96 | 23.80 | 117.32 |
| 295 | 21.04 | 45.80 | 0.57 | 0.96 | 24.10 | 117.07 |
| 296 | 21.13 | 45.80 | 0.70 | 0.96 | 23.70 | 116.74 |
| 297 | 21.22 | 45.75 | 0.76 | 0.96 | 23.00 | 117.62 |
| 298 | 21.29 | 56.07 | 0.78 | 1.05 | 21.86 | 118.10 |
| 299 | 21.35 | 56.27 | 0.79 | 1.05 | 18.50 | 118.64 |
| 300 | 21.37 | 73.99 | 0.80 | 1.05 | 15.90 | 119.09 |
| 301 | 21.42 | 83.80 | 0.82 | 1.05 | 13.13 | 119.55 |
| 302 | 21.47 | 93.32 | 0.82 | 1.05 | 11.52 | 119.85 |
| 303 | 21.48 | 101.01 | 0.82 | 1.05 | 10.27 | 120.06 |
| 304 | 21.52 | 107.59 | 0.82 | 1.05 | 9.34 | 120.20 |
| 305 | 21.57 | 113.46 | 0.81 | 1.05 | 8.57 | 120.29 |
| 306 | 21.62 | 118.62 | 0.80 | 1.05 | 7.91 | 120.35 |
| 307 | 21.66 | 124.29 | 0.80 | 1.05 | 7.35 | 120.43 |
| 308 | 21.71 | 129.05 | 0.81 | 1.15 | 6.92 | 120.56 |
| 309 | 21.76 | 132.99 | 0.82 | 1.15 | 6.65 | 120.75 |
| 310 | 21.81 | 135.83 | 0.84 | 1.15 | 6.55 | 120.99 |
| 311 | 21.85 | 137.14 | 0.87 | 1.15 | 6.57 | 121.25 |
| 312 | 21.91 | 137.95 | 0.90 | 1.15 | 6.66 | 121.49 |
| 313 | 21.95 | 138.26 | 0.92 | 1.15 | 6.78 | 121.69 |
| 314 | 22.00 | 138.06 | 0.94 | 1.15 | 6.89 | 121.84 |
| 315 | 22.05 | 138.36 | 0.96 | 1.15 | 6.99 | 121.96 |
| 316 | 22.10 | 138.06 | 0.97 | 1.15 | 7.07 | 122.06 |
| 317 | 22.15 | 138.26 | 0.98 | 1.15 | 7.14 | 122.15 |
| 318 | 22.19 | 138.56 | 0.99 | 1.15 | 7.18 | 122.24 |
| 319 | 22.24 | 139.17 | 1.00 | 1.15 | 7.38 | 122.59 |
| 320 | 22.29 | 139.98 | 1.12 | 1.15 | 7.48 | 122.79 |
| 321 | 22.34 | 140.38 | 1.07 | 1.15 | 7.53 | 122.89 |
| 322 | 22.39 | 140.18 | 1.04 | 1.15 | 7.42 | 122.71 |
| 323 | 22.43 | 139.57 | 1.04 | 1.15 | 7.44 | 122.63 |
| 324 | 22.48 | 138.46 | 1.05 | 1.15 | 7.57 | 122.64 |
| 325 | 22.55 | 136.94 | 1.06 | 1.15 | 7.77 | 122.66 |
| 326 | 22.62 | 134.92 | 1.06 | 1.15 | 8.48 | 122.57 |
| 327 | 22.63 | 118.32 | 1.06 | 1.24 | 8.67 | 122.48 |
| 328 | 22.72 | 130.57 | 1.04 | 1.24 | 8.87 | 122.34 |
| 329 | 22.77 | 127.73 | 1.02 | 1.24 | 8.53 | 122.30 |
| 330 | 22.83 | 125.91 | 1.02 | 1.24 | 8.81 | 122.33 |
| 331 | 22.91 | 124.70 | 1.06 | 1.24 | 9.13 | 122.40 |
| 332 | 22.96 | 121.96 | 1.07 | 1.24 | 9.51 | 122.45 |
| 333 | 23.02 | 118.52 | 1.06 | 1.24 | 9.95 | 122.36 |
| 334 | 23.10 | 114.07 | 1.06 | 1.24 | 10.51 | 122.24 |
| 335 | 23.16 | 108.91 | 1.05 | 1.24 | 11.23 | 122.08 |
| 336 | 23.20 | 102.23 | 1.04 | 1.24 | 12.12 | 121.86 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 337 | 23.26 | 95.44 | 1.03 | 1.24 | 13.14 | 121.54 |
| 338 | 23.35 | 88.66 | 0.99 | 1.24 | 14.37 | 121.28 |
| 339 | 23.39 | 81.88 | 1.01 | 1.24 | 15.74 | 120.92 |
| 340 | 23.48 | 74.39 | 0.96 | 1.24 | 17.51 | 120.69 |
| 341 | 23.54 | 67.71 | 0.98 | 1.24 | 19.01 | 120.18 |
| 342 | 23.63 | 62.85 | 0.89 | 1.24 | 19.95 | 119.45 |
| 343 | 23.69 | 59.72 | 0.76 | 1.24 | 19.23 | 117.77 |
| 344 | 23.78 | 57.59 | 0.48 | 1.24 | 18.61 | 116.63 |
| 345 | 23.87 | 57.74 | 0.60 | 1.24 | 18.21 | 116.01 |
| 346 | 23.88 | 57.74 | 0.61 | 1.24 | 19.03 | 116.77 |
| 347 | 23.93 | 57.89 | 0.67 | 1.34 | 19.95 | 117.38 |
| 348 | 24.02 | 56.58 | 0.77 | 1.34 | 20.80 | 117.95 |
| 349 | 24.04 | 57.13 | 0.78 | 1.34 | 21.46 | 118.37 |
| 350 | 24.05 | 57.13 | 0.80 | 1.34 | 21.78 | 118.73 |
| 351 | 24.15 | 57.69 | 0.89 | 1.34 | 21.95 | 119.14 |
| 352 | 24.20 | 59.92 | 0.91 | 1.34 | 21.72 | 119.56 |
| 353 | 24.30 | 62.65 | 0.93 | 1.34 | 20.63 | 119.52 |
| 354 | 24.40 | 65.28 | 0.83 | 1.34 | 19.19 | 119.11 |
| 355 | 24.46 | 67.21 | 0.74 | 1.34 | 17.84 | 118.42 |
| 356 | 24.54 | 67.21 | 0.69 | 1.34 | 17.34 | 117.92 |
| 357 | 24.64 | 64.78 | 0.69 | 1.34 | 18.05 | 117.78 |
| 358 | 24.73 | 60.22 | 0.72 | 1.34 | 19.84 | 117.90 |
| 359 | 24.78 | 54.76 | 0.77 | 1.34 | 22.46 | 118.05 |
| 360 | 24.88 | 48.89 | 0.80 | 1.34 | 25.68 | 117.95 |
| 361 | 24.94 | 42.00 | 0.78 | 1.24 | 29.51 | 117.49 |
| 362 | 25.02 | 34.82 | 0.73 | 1.24 | 34.04 | 116.54 |
| 363 | 25.12 | 28.14 | 0.65 | 1.24 | 39.88 | 115.47 |
| 364 | 25.17 | 22.27 | 0.62 | 1.24 | 46.77 | 114.38 |
| 365 | 25.27 | 18.12 | 0.59 | 1.24 | 54.06 | 113.10 |
| 366 | 25.36 | 14.78 | 0.46 | 1.24 | 61.30 | 111.68 |
| 367 | 25.43 | 12.45 | 0.42 | 1.24 | 67.46 | 110.12 |
| 368 | 25.50 | 10.53 | 0.38 | 1.24 | 73.11 | 108.95 |
| 369 | 25.60 | 9.62 | 0.33 | 1.24 | 77.33 | 107.97 |
| 370 | 25.64 | 9.11 | 0.32 | 1.24 | 78.94 | 107.28 |
| 371 | 25.67 | 9.01 | 0.30 | 1.15 | 79.14 | 106.81 |
| 372 | 25.71 | 9.01 | 0.28 | 1.15 | 78.50 | 105.99 |
| 373 | 25.79 | 8.50 | 0.23 | 1.15 | 78.06 | 104.81 |
| 374 | 25.93 | 8.00 | 0.19 | 1.15 | 77.81 | 103.60 |
| 375 | 26.03 | 8.00 | 0.18 | 1.15 | 77.15 | 102.74 |
| 376 | 26.13 | 8.00 | 0.16 | 1.15 | 76.38 | 102.36 |
| 377 | 26.24 | 8.00 | 0.16 | 1.15 | 75.73 | 102.24 |
| 378 | 26.37 | 8.20 | 0.17 | 1.15 | 75.53 | 102.41 |
| 379 | 26.47 | 8.30 | 0.17 | 1.15 | 75.71 | 102.64 |
| 380 | 26.60 | 8.20 | 0.18 | 1.15 | 74.72 | 102.14 |
| 381 | 26.71 | 8.20 | 0.14 | 1.15 | 72.50 | 101.53 |
| 382 | 26.85 | 8.70 | 0.13 | 1.15 | 69.69 | 101.34 |
| 383 | 26.95 | 9.31 | 0.16 | 1.15 | 71.29 | 102.63 |
| 384 | 27.04 | 8.81 | 0.22 | 1.15 | 71.21 | 104.34 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 385 | 27.09 | 10.63 | 0.25 | 1.05 | 71.61 | 105.86 |
| 386 | 27.19 | 10.93 | 0.29 | 1.05 | 69.63 | 106.85 |
| 387 | 27.23 | 11.23 | 0.30 | 1.05 | 70.05 | 107.52 |
| 388 | 27.33 | 11.34 | 0.32 | 1.05 | 70.38 | 108.10 |
| 389 | 27.40 | 11.64 | 0.36 | 1.05 | 70.26 | 108.70 |
| 390 | 27.47 | 12.25 | 0.38 | 1.05 | 69.48 | 109.39 |
| 391 | 27.57 | 12.95 | 0.41 | 1.05 | 68.12 | 110.02 |
| 392 | 27.66 | 13.66 | 0.44 | 1.05 | 66.86 | 110.95 |
| 393 | 27.77 | 14.88 | 0.52 | 1.05 | 65.56 | 112.10 |
| 394 | 27.86 | 16.30 | 0.60 | 1.05 | 64.27 | 113.38 |
| 395 | 27.96 | 17.61 | 0.69 | 1.05 | 63.40 | 114.40 |
| 396 | 28.06 | 18.22 | 0.74 | 1.05 | 64.03 | 115.00 |
| 397 | 28.15 | 17.31 | 0.77 | 1.05 | 65.56 | 115.03 |
| 398 | 28.25 | 16.30 | 0.72 | 1.05 | 64.37 | 114.22 |
| 399 | 28.34 | 17.46 | 0.52 | 1.05 | 63.64 | 113.20 |
| 400 | 28.44 | 15.69 | 0.53 | 1.05 | 61.14 | 112.70 |
| 401 | 28.54 | 17.61 | 0.59 | 1.05 | 64.86 | 113.09 |
| 402 | 28.62 | 14.98 | 0.63 | 1.05 | 62.81 | 113.97 |
| 403 | 28.71 | 19.74 | 0.70 | 1.05 | 62.14 | 114.69 |
| 404 | 28.77 | 20.24 | 0.75 | 1.05 | 59.04 | 115.50 |
| 405 | 28.86 | 20.75 | 0.80 | 1.05 | 59.06 | 115.95 |
| 406 | 28.91 | 21.15 | 0.82 | 1.05 | 58.48 | 116.29 |
| 407 | 28.97 | 22.06 | 0.84 | 1.05 | 57.87 | 116.68 |
| 408 | 29.04 | 22.87 | 0.91 | 1.05 | 57.17 | 117.16 |
| 409 | 29.10 | 23.78 | 0.96 | 1.05 | 56.38 | 117.71 |
| 410 | 29.15 | 25.20 | 1.01 | 1.05 | 55.66 | 118.36 |
| 411 | 29.25 | 26.42 | 1.13 | 1.05 | 54.03 | 119.02 |
| 412 | 29.34 | 27.53 | 1.19 | 1.05 | 53.66 | 119.56 |
| 413 | 29.38 | 28.14 | 1.22 | 1.05 | 53.77 | 119.85 |
| 414 | 29.48 | 27.53 | 1.26 | 1.05 | 55.21 | 119.97 |
| 415 | 29.55 | 27.43 | 1.26 | 1.05 | 55.61 | 119.94 |
| 416 | 29.63 | 27.43 | 1.21 | 1.05 | 53.71 | 119.51 |
| 417 | 29.72 | 27.33 | 1.04 | 1.05 | 46.70 | 117.24 |
| 418 | 29.82 | 30.47 | 0.29 | 1.15 | 36.62 | 114.29 |
| 419 | 29.88 | 36.84 | 0.31 | 1.15 | 26.07 | 110.63 |
| 420 | 29.96 | 43.12 | 0.35 | 1.15 | 21.97 | 111.98 |
| 421 | 30.06 | 55.67 | 0.40 | 1.15 | 20.66 | 113.06 |
| 422 | 30.13 | 50.91 | 0.44 | 1.05 | 19.28 | 113.85 |
| 423 | 30.18 | 57.39 | 0.44 | 1.05 | 19.21 | 114.32 |
| 424 | 30.28 | 59.72 | 0.48 | 1.05 | 18.92 | 115.08 |
| 425 | 30.37 | 59.01 | 0.56 | 1.05 | 19.74 | 116.07 |
| 426 | 30.47 | 59.82 | 0.65 | 1.05 | 20.55 | 117.07 |
| 427 | 30.57 | 62.65 | 0.72 | 1.05 | 20.45 | 117.89 |
| 428 | 30.66 | 67.31 | 0.76 | 1.05 | 19.78 | 118.59 |
| 429 | 30.74 | 71.76 | 0.82 | 1.05 | 19.08 | 119.20 |
| 430 | 30.82 | 74.90 | 0.87 | 1.05 | 18.72 | 119.77 |
| 431 | 30.90 | 76.82 | 0.92 | 1.15 | 18.90 | 120.37 |
| 432 | 31.01 | 77.12 | 1.02 | 1.15 | 19.54 | 121.00 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 433 | 31.10 | 76.72 | 1.12 | 1.15 | 20.53 | 121.75 |
| 434 | 31.19 | 77.18 | 1.25 | 1.15 | 21.62 | 122.52 |
| 435 | 31.28 | 77.23 | 1.39 | 1.15 | 22.44 | 123.19 |
| 436 | 31.35 | 78.24 | 1.47 | 1.15 | 22.96 | 123.75 |
| 437 | 31.43 | 80.06 | 1.56 | 1.15 | 23.03 | 124.24 |
| 438 | 31.53 | 83.20 | 1.66 | 1.15 | 22.94 | 124.75 |
| 439 | 31.60 | 86.03 | 1.75 | 1.15 | 21.03 | 124.07 |
| 440 | 31.67 | 88.46 | 1.07 | 1.15 | 19.28 | 123.27 |
| 441 | 31.77 | 89.68 | 1.16 | 1.15 | 17.72 | 122.34 |
| 442 | 31.84 | 90.18 | 1.26 | 1.15 | 18.27 | 122.84 |
| 443 | 31.91 | 89.68 | 1.32 | 1.15 | 19.80 | 123.18 |
| 444 | 31.98 | 78.64 | 1.39 | 1.15 | 22.19 | 123.23 |
| 445 | 31.98 | 68.93 | 1.40 | 1.15 | 23.12 | 123.39 |
| 446 | 32.04 | 84.01 | 1.44 | 1.24 | 23.03 | 123.69 |
| 447 | 32.12 | 83.20 | 1.54 | 1.24 | 22.36 | 124.14 |
| 448 | 32.16 | 80.77 | 1.60 | 1.24 | 23.73 | 124.42 |
| 449 | 32.27 | 76.11 | 1.67 | 1.24 | 25.51 | 124.47 |
| 450 | 32.33 | 70.04 | 1.66 | 1.24 | 27.40 | 124.34 |
| 451 | 32.41 | 66.09 | 1.63 | 1.24 | 28.95 | 124.00 |
| 452 | 32.50 | 62.75 | 1.55 | 1.24 | 30.35 | 123.44 |
| 453 | 32.58 | 56.48 | 1.41 | 1.24 | 31.97 | 122.68 |
| 454 | 32.66 | 50.71 | 1.29 | 1.24 | 34.45 | 121.67 |
| 455 | 32.74 | 43.42 | 1.16 | 1.24 | 37.91 | 120.54 |
| 456 | 32.84 | 35.73 | 1.02 | 1.24 | 42.91 | 119.34 |
| 457 | 32.90 | 29.15 | 0.95 | 1.24 | 48.72 | 118.12 |
| 458 | 32.98 | 24.70 | 0.85 | 1.24 | 56.09 | 116.92 |
| 459 | 33.08 | 20.85 | 0.75 | 1.24 | 62.41 | 115.68 |
| 460 | 33.14 | 16.70 | 0.69 | 1.24 | 70.22 | 114.44 |
| 461 | 33.22 | 13.56 | 0.63 | 1.24 | 78.27 | 113.16 |
| 462 | 33.32 | 12.04 | 0.53 | 1.24 | 84.25 | 111.85 |
| 463 | 33.37 | 10.93 | 0.46 | 1.24 | 85.46 | 110.42 |
| 464 | 33.47 | 10.83 | 0.38 | 1.24 | 84.74 | 109.62 |
| 465 | 33.56 | 11.34 | 0.39 | 1.24 | 80.65 | 109.42 |
| 466 | 33.63 | 12.75 | 0.41 | 1.24 | 77.37 | 109.72 |
| 467 | 33.71 | 13.16 | 0.40 | 1.24 | 75.48 | 109.42 |
| 468 | 33.81 | 12.04 | 0.34 | 1.24 | 74.83 | 107.78 |
| 469 | 33.90 | 10.73 | 0.19 | 1.24 | 75.10 | 105.75 |
| 470 | 33.95 | 10.32 | 0.19 | 1.24 | 75.13 | 103.88 |
| 471 | 34.04 | 9.82 | 0.19 | 1.24 | 76.22 | 103.67 |
| 472 | 34.14 | 10.02 | 0.18 | 1.34 | 77.27 | 103.52 |
| 473 | 34.17 | 9.72 | 0.19 | 1.24 | 77.76 | 103.53 |
| 474 | 34.20 | 9.62 | 0.19 | 1.24 | 76.51 | 103.73 |
| 475 | 34.26 | 10.83 | 0.19 | 1.24 | 75.12 | 103.91 |
| 476 | 34.35 | 10.63 | 0.19 | 1.24 | 73.88 | 103.93 |
| 477 | 34.43 | 10.32 | 0.19 | 1.24 | 74.71 | 103.73 |
| 478 | 34.49 | 10.22 | 0.18 | 1.24 | 74.86 | 103.40 |
| 479 | 34.59 | 10.22 | 0.17 | 1.24 | 74.51 | 102.92 |
| 480 | 34.69 | 10.02 | 0.15 | 1.24 | 74.15 | 102.43 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 481 | 34.73 | 9.92 | 0.15 | 1.24 | 74.31 | 102.00 |
| 482 | 34.83 | 9.72 | 0.15 | 1.24 | 74.57 | 101.78 |
| 483 | 34.90 | 9.72 | 0.14 | 1.24 | 75.16 | 101.82 |
| 484 | 34.98 | 9.72 | 0.15 | 1.24 | 75.52 | 102.24 |
| 485 | 35.07 | 10.02 | 0.17 | 1.24 | 76.19 | 103.35 |
| 486 | 35.16 | 10.63 | 0.21 | 1.24 | 78.83 | 105.56 |
| 487 | 35.26 | 11.03 | 0.33 | 1.24 | 83.16 | 108.85 |
| 488 | 35.33 | 12.15 | 0.55 | 1.24 | 81.79 | 112.16 |
| 489 | 35.40 | 16.50 | 0.76 | 1.34 | 74.84 | 114.98 |
| 490 | 35.50 | 21.56 | 0.92 | 1.34 | 67.00 | 116.75 |
| 491 | 35.57 | 24.39 | 0.97 | 1.34 | 63.27 | 117.70 |
| 492 | 35.65 | 24.09 | 1.01 | 1.34 | 63.57 | 118.14 |
| 493 | 35.71 | 22.77 | 1.08 | 1.34 | 66.27 | 118.34 |
| 494 | 35.79 | 21.66 | 1.09 | 1.34 | 69.18 | 118.25 |
| 495 | 35.85 | 20.45 | 1.03 | 1.34 | 71.21 | 117.70 |
| 496 | 35.94 | 18.93 | 0.91 | 1.34 | 72.32 | 116.92 |
| 497 | 35.99 | 18.42 | 0.83 | 1.34 | 72.47 | 115.84 |
| 498 | 36.08 | 17.51 | 0.69 | 1.34 | 72.38 | 114.36 |
| 499 | 36.17 | 15.49 | 0.51 | 1.34 | 73.86 | 112.64 |
| 500 | 36.24 | 13.56 | 0.46 | 1.34 | 75.60 | 111.22 |
| 501 | 36.33 | 13.56 | 0.44 | 1.34 | 77.26 | 110.71 |
| 502 | 36.42 | 13.56 | 0.44 | 1.34 | 77.95 | 110.94 |
| 503 | 36.52 | 13.56 | 0.50 | 1.34 | 73.49 | 110.01 |
| 504 | 36.61 | 14.98 | 0.26 | 1.34 | 67.87 | 109.88 |
| 505 | 36.70 | 17.61 | 0.38 | 1.34 | 62.71 | 110.97 |
| 506 | 36.78 | 20.55 | 0.63 | 1.34 | 62.56 | 113.90 |
| 507 | 36.85 | 22.47 | 0.80 | 1.34 | 71.90 | 115.26 |
| 508 | 36.87 | 11.64 | 0.83 | 1.34 | 69.07 | 116.41 |
| 509 | 36.91 | 26.42 | 0.92 | 1.34 | 63.50 | 117.24 |
| 510 | 36.97 | 31.58 | 0.97 | 1.43 | 49.63 | 118.44 |
| 511 | 37.06 | 36.13 | 1.01 | 1.43 | 46.01 | 119.19 |
| 512 | 37.12 | 37.96 | 1.11 | 1.43 | 43.96 | 120.10 |
| 513 | 37.20 | 41.70 | 1.28 | 1.43 | 42.39 | 121.21 |
| 514 | 37.27 | 47.47 | 1.45 | 1.43 | 39.71 | 122.19 |
| 515 | 37.35 | 53.44 | 1.50 | 1.43 | 36.91 | 122.63 |
| 516 | 37.44 | 55.67 | 1.40 | 1.43 | 34.70 | 122.58 |
| 517 | 37.49 | 56.48 | 1.34 | 1.43 | 32.26 | 122.38 |
| 518 | 37.59 | 63.06 | 1.30 | 1.43 | 27.80 | 122.53 |
| 519 | 37.64 | 81.98 | 1.30 | 1.43 | 21.40 | 123.10 |
| 520 | 37.70 | 111.84 | 1.32 | 1.53 | 15.68 | 123.77 |
| 521 | 37.78 | 139.98 | 1.32 | 1.53 | 11.92 | 124.31 |
| 522 | 37.83 | 157.89 | 1.32 | 1.53 | 9.84 | 124.68 |
| 523 | 37.92 | 169.13 | 1.35 | 1.53 | 8.83 | 124.96 |
| 524 | 37.97 | 175.50 | 1.38 | 1.53 | 8.44 | 125.29 |
| 525 | 38.07 | 179.05 | 1.45 | 1.53 | 8.35 | 125.63 |
| 526 | 38.14 | 181.78 | 1.51 | 1.53 | 8.44 | 126.04 |
| 527 | 38.22 | 184.61 | 1.60 | 1.53 | 8.51 | 126.51 |
| 528 | 38.31 | 190.69 | 1.72 | 1.53 | 8.57 | 127.15 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 529 | 38.41 | 199.80 | 1.90 | 1.62 | 8.22 | 127.66 |
| 530 | 38.52 | 213.56 | 1.89 | 1.62 | 7.81 | 128.17 |
| 531 | 38.64 | 224.49 | 2.02 | 1.62 | 7.45 | 128.44 |
| 532 | 38.74 | 225.00 | 2.04 | 1.62 | 7.89 | 128.67 |
| 533 | 38.80 | 204.05 | 2.10 | 1.62 | 8.30 | 128.80 |
| 534 | 38.89 | 213.46 | 2.16 | 1.82 | 8.75 | 128.95 |
| 535 | 38.94 | 213.66 | 2.21 | 1.82 | 8.74 | 129.21 |
| 536 | 39.03 | 213.76 | 2.31 | 1.82 | 9.04 | 129.51 |
| 537 | 39.13 | 213.26 | 2.44 | 1.82 | 9.44 | 129.87 |
| 538 | 39.23 | 212.65 | 2.56 | 1.91 | 9.96 | 130.20 |
| 539 | 39.35 | 208.10 | 2.67 | 1.91 | 10.48 | 130.39 |
| 540 | 39.42 | 202.73 | 2.68 | 1.91 | 11.13 | 130.39 |
| 541 | 39.51 | 192.20 | 2.66 | 1.91 | 11.86 | 130.23 |
| 542 | 39.60 | 181.27 | 2.62 | 1.91 | 12.73 | 129.97 |
| 543 | 39.70 | 170.95 | 2.55 | 1.91 | 13.46 | 129.70 |
| 544 | 39.78 | 166.19 | 2.50 | 1.91 | 14.13 | 129.38 |
| 545 | 39.90 | 156.68 | 2.40 | 1.91 | 14.77 | 129.07 |
| 546 | 39.99 | 149.09 | 2.35 | 1.91 | 15.57 | 128.71 |
| 547 | 40.09 | 141.29 | 2.28 | 1.91 | 16.39 | 128.37 |
| 548 | 40.18 | 133.80 | 2.21 | 1.91 | 17.30 | 128.04 |
| 549 | 40.23 | 126.21 | 2.16 | 1.91 | 18.29 | 127.67 |
| 550 | 40.33 | 118.02 | 2.08 | 1.91 | 19.50 | 127.30 |
| 551 | 40.43 | 109.72 | 2.03 | 1.91 | 20.84 | 126.92 |
| 552 | 40.52 | 102.53 | 1.98 | 1.91 | 22.74 | 126.70 |
| 553 | 40.61 | 93.22 | 2.06 | 1.91 | 24.63 | 126.07 |
| 554 | 40.69 | 81.48 | 1.71 | 1.91 | 27.65 | 125.27 |
| 555 | 40.80 | 67.00 | 1.63 | 1.91 | 31.04 | 124.10 |
| 556 | 40.87 | 57.39 | 1.51 | 1.91 | 34.44 | 123.25 |
| 557 | 40.95 | 55.26 | 1.38 | 1.91 | 37.39 | 122.50 |
| 558 | 40.97 | 47.67 | 1.35 | 1.91 | 38.04 | 122.03 |
| 559 | 41.01 | 51.11 | 1.30 | 2.01 | 35.69 | 121.95 |
| 560 | 41.07 | 64.07 | 1.26 | 2.01 | 31.09 | 122.03 |
| 561 | 41.15 | 70.14 | 1.23 | 2.01 | 28.20 | 122.06 |
| 562 | 41.26 | 67.91 | 1.21 | 1.91 | 28.17 | 121.94 |
| 563 | 41.35 | 63.26 | 1.21 | 1.91 | 29.96 | 121.73 |
| 564 | 41.47 | 57.89 | 1.20 | 1.91 | 31.46 | 121.66 |
| 565 | 41.59 | 59.61 | 1.23 | 1.91 | 31.96 | 121.71 |
| 566 | 41.69 | 61.44 | 1.24 | 1.91 | 31.98 | 121.95 |
| 567 | 41.78 | 60.12 | 1.30 | 1.91 | 33.05 | 122.10 |
| 568 | 41.88 | 55.87 | 1.33 | 1.82 | 35.75 | 121.95 |
| 569 | 41.98 | 48.18 | 1.27 | 1.82 | 39.01 | 121.52 |
| 570 | 42.08 | 44.23 | 1.21 | 1.82 | 41.72 | 120.96 |
| 571 | 42.16 | 42.91 | 1.16 | 1.82 | 41.89 | 120.65 |
| 572 | 42.24 | 45.75 | 1.14 | 1.82 | 39.57 | 120.77 |
| 573 | 42.31 | 52.63 | 1.19 | 1.91 | 36.25 | 121.19 |
| 574 | 42.45 | 58.30 | 1.23 | 1.82 | 33.81 | 121.60 |
| 575 | 42.55 | 59.82 | 1.24 | 1.82 | 32.69 | 121.82 |
| 576 | 42.60 | 59.92 | 1.25 | 1.82 | 32.61 | 121.90 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 577 | 42.70 | 59.51 | 1.27 | 1.82 | 33.18 | 122.03 |
| 578 | 42.81 | 58.50 | 1.32 | 1.72 | 34.70 | 122.15 |
| 579 | 42.89 | 54.05 | 1.36 | 1.72 | 37.37 | 122.12 |
| 580 | 42.98 | 48.08 | 1.34 | 1.72 | 41.13 | 121.83 |
| 581 | 43.08 | 42.61 | 1.30 | 1.72 | 45.23 | 121.41 |
| 582 | 43.17 | 38.66 | 1.28 | 1.72 | 47.51 | 121.07 |
| 583 | 43.27 | 39.98 | 1.25 | 1.72 | 46.42 | 120.88 |
| 584 | 43.37 | 44.43 | 1.19 | 1.72 | 41.14 | 119.79 |
| 585 | 43.50 | 46.96 | 0.69 | 1.72 | 35.96 | 118.51 |
| 586 | 43.61 | 48.99 | 0.69 | 1.72 | 32.32 | 117.19 |
| 587 | 43.74 | 49.59 | 0.74 | 1.62 | 32.41 | 117.56 |
| 588 | 43.79 | 49.29 | 0.79 | 1.62 | 33.54 | 118.20 |
| 589 | 43.86 | 48.99 | 0.89 | 1.43 | 35.58 | 118.96 |
| 590 | 43.94 | 47.06 | 1.02 | 1.34 | 38.25 | 119.71 |
| 591 | 44.00 | 45.04 | 1.11 | 1.34 | 41.55 | 120.34 |
| 592 | 44.08 | 42.51 | 1.22 | 1.34 | 44.91 | 120.67 |
| 593 | 44.17 | 39.37 | 1.23 | 1.34 | 48.70 | 120.54 |
| 594 | 44.27 | 34.61 | 1.15 | 1.34 | 51.70 | 119.87 |
| 595 | 44.42 | 32.29 | 1.00 | 1.34 | 51.75 | 119.10 |
| 596 | 44.52 | 35.53 | 0.93 | 1.34 | 46.94 | 118.74 |
| 597 | 44.61 | 43.42 | 0.93 | 1.34 | 39.36 | 118.80 |
| 598 | 44.71 | 53.44 | 0.86 | 1.34 | 33.96 | 119.33 |
| 599 | 44.85 | 58.80 | 0.98 | 1.34 | 32.04 | 120.04 |
| 600 | 44.95 | 57.69 | 1.13 | 1.34 | 32.93 | 120.75 |
| 601 | 45.09 | 55.36 | 1.15 | 1.34 | 35.03 | 121.01 |
| 602 | 45.19 | 51.82 | 1.14 | 1.34 | 38.27 | 120.75 |
| 603 | 45.33 | 43.02 | 1.11 | 1.34 | 43.45 | 120.27 |
| 604 | 45.42 | 35.42 | 1.09 | 1.34 | 49.18 | 119.55 |
| 605 | 45.57 | 33.00 | 0.99 | 1.34 | 51.89 | 118.90 |
| 606 | 45.68 | 34.11 | 0.92 | 1.34 | 52.37 | 118.05 |
| 607 | 45.81 | 30.57 | 0.81 | 1.34 | 52.39 | 116.56 |
| 608 | 45.92 | 26.62 | 0.54 | 1.34 | 59.16 | 115.42 |
| 609 | 46.05 | 22.37 | 0.69 | 1.34 | 66.42 | 114.50 |
| 610 | 46.16 | 17.81 | 0.67 | 1.24 | 75.25 | 114.63 |
| 611 | 46.17 | 17.71 | 0.67 | 1.24 | 79.56 | 114.21 |
| 612 | 46.23 | 17.61 | 0.63 | 1.24 | 79.66 | 113.87 |
| 613 | 46.29 | 17.00 | 0.59 | 1.24 | 80.53 | 113.32 |
| 614 | 46.34 | 15.89 | 0.55 | 1.24 | 81.48 | 112.46 |
| 615 | 46.42 | 15.18 | 0.46 | 1.24 | 81.87 | 111.41 |
| 616 | 46.48 | 14.78 | 0.40 | 1.24 | 80.78 | 110.31 |
| 617 | 46.52 | 14.68 | 0.36 | 1.24 | 79.61 | 109.48 |
| 618 | 46.60 | 14.57 | 0.33 | 1.24 | 78.79 | 108.88 |
| 619 | 46.67 | 14.37 | 0.32 | 1.24 | 78.01 | 108.41 |
| 620 | 46.74 | 14.47 | 0.30 | 1.24 | 77.35 | 108.06 |
| 621 | 46.82 | 14.47 | 0.29 | 1.24 | 76.73 | 107.71 |
| 622 | 46.88 | 14.27 | 0.28 | 1.34 | 77.13 | 107.41 |
| 623 | 46.96 | 13.76 | 0.27 | 1.34 | 77.21 | 107.25 |
| 624 | 47.06 | 14.22 | 0.27 | 1.34 | 77.78 | 107.20 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 625 | 47.15 | 13.87 | 0.27 | 1.34 | 77.74 | 107.41 |
| 626 | 47.24 | 14.17 | 0.29 | 1.34 | 79.57 | 108.74 |
| 627 | 47.35 | 15.18 | 0.43 | 1.34 | 80.06 | 111.84 |
| 628 | 47.49 | 19.13 | 0.74 | 1.34 | 72.80 | 113.76 |
| 629 | 47.58 | 24.70 | 0.62 | 1.34 | 64.43 | 115.05 |
| 630 | 47.73 | 28.44 | 0.64 | 1.34 | 60.58 | 115.11 |
| 631 | 47.83 | 24.90 | 0.71 | 1.34 | 59.52 | 115.49 |
| 632 | 47.87 | 27.78 | 0.69 | 1.34 | 61.47 | 115.59 |
| 633 | 47.89 | 25.81 | 0.69 | 1.34 | 59.88 | 115.52 |
| 634 | 47.94 | 27.13 | 0.67 | 1.34 | 60.12 | 115.37 |
| 635 | 48.02 | 26.92 | 0.66 | 1.34 | 59.63 | 115.28 |
| 636 | 48.07 | 26.32 | 0.66 | 1.34 | 60.36 | 115.24 |
| 637 | 48.12 | 25.91 | 0.67 | 1.34 | 61.69 | 115.43 |
| 638 | 48.18 | 25.61 | 0.72 | 1.34 | 63.36 | 115.65 |
| 639 | 48.26 | 24.70 | 0.74 | 1.34 | 64.74 | 115.83 |
| 640 | 48.31 | 24.65 | 0.73 | 1.34 | 65.22 | 115.64 |
| 641 | 48.38 | 24.39 | 0.68 | 1.34 | 64.33 | 115.21 |
| 642 | 48.46 | 24.59 | 0.62 | 1.34 | 62.61 | 114.59 |
| 643 | 48.52 | 25.10 | 0.57 | 1.34 | 61.59 | 113.83 |
| 644 | 48.60 | 23.48 | 0.50 | 1.34 | 62.06 | 112.77 |
| 645 | 48.68 | 20.85 | 0.41 | 1.34 | 65.40 | 111.58 |
| 646 | 48.74 | 17.91 | 0.39 | 1.34 | 70.58 | 110.53 |
| 647 | 48.82 | 15.79 | 0.38 | 1.34 | 77.29 | 109.90 |
| 648 | 48.89 | 14.07 | 0.36 | 1.34 | 82.02 | 109.37 |
| 649 | 48.99 | 13.76 | 0.34 | 1.34 | 84.26 | 108.81 |
| 650 | 49.05 | 13.56 | 0.31 | 1.34 | 83.16 | 108.02 |
| 651 | 49.12 | 13.56 | 0.26 | 1.34 | 81.66 | 107.12 |
| 652 | 49.18 | 13.36 | 0.24 | 1.34 | 79.51 | 106.27 |
| 653 | 49.27 | 13.66 | 0.22 | 1.34 | 77.50 | 105.79 |
| 654 | 49.32 | 14.17 | 0.21 | 1.34 | 75.79 | 105.36 |
| 655 | 49.42 | 13.87 | 0.20 | 1.43 | 76.97 | 105.08 |
| 656 | 49.48 | 12.55 | 0.20 | 1.43 | 78.75 | 104.88 |
| 657 | 49.56 | 12.85 | 0.21 | 1.43 | 79.72 | 105.05 |
| 658 | 49.66 | 13.56 | 0.21 | 1.43 | 79.61 | 105.56 |
| 659 | 49.76 | 13.36 | 0.25 | 1.43 | 78.83 | 106.06 |
| 660 | 49.85 | 14.07 | 0.25 | 1.43 | 75.45 | 105.30 |
| 661 | 49.99 | 14.68 | 0.14 | 1.43 | 70.32 | 104.44 |
| 662 | 50.09 | 15.79 | 0.17 | 1.43 | 70.12 | 103.40 |
| 663 | 50.21 | 12.75 | 0.18 | 1.43 | 73.69 | 103.83 |
| 664 | 50.24 | 12.85 | 0.18 | 1.53 | 76.33 | 103.72 |
| 665 | 50.29 | 13.97 | 0.17 | 1.53 | 74.08 | 103.47 |
| 666 | 50.38 | 13.87 | 0.15 | 1.53 | 73.00 | 103.13 |
| 667 | 50.47 | 13.16 | 0.15 | 1.53 | 73.91 | 102.86 |
| 668 | 50.52 | 13.06 | 0.15 | 1.62 | 75.96 | 102.88 |
| 669 | 50.62 | 12.65 | 0.16 | 1.62 | 76.35 | 103.11 |
| 670 | 50.66 | 13.26 | 0.17 | 1.62 | 76.26 | 103.37 |
| 671 | 50.76 | 13.46 | 0.17 | 1.62 | 76.25 | 103.65 |
| 672 | 50.83 | 13.06 | 0.18 | 1.62 | 73.88 | 104.35 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 673 | 50.91 | 15.79 | 0.21 | 1.62 | 75.06 | 105.23 |
| 674 | 51.00 | 13.97 | 0.24 | 1.62 | 71.94 | 106.28 |
| 675 | 51.06 | 17.00 | 0.25 | 1.62 | 67.88 | 107.32 |
| 676 | 51.15 | 21.05 | 0.29 | 1.62 | 69.95 | 108.74 |
| 677 | 51.24 | 14.88 | 0.40 | 1.62 | 78.64 | 110.36 |
| 678 | 51.31 | 13.06 | 0.52 | 1.62 | 100.00 | 111.65 |
| 679 | 51.39 | 10.63 | 0.63 | 1.62 | 79.74 | 113.89 |
| 680 | 51.48 | 31.88 | 0.71 | 1.72 | 52.10 | 116.37 |
| 681 | 51.58 | 53.85 | 0.83 | 1.72 | 50.39 | 117.73 |
| 682 | 51.68 | 20.34 | 1.00 | 1.72 | 65.78 | 117.82 |
| 683 | 51.77 | 9.21 | 0.95 | 1.72 | 93.85 | 117.60 |
| 684 | 51.90 | 23.89 | 1.17 | 1.72 | 59.97 | 121.42 |
| 685 | 52.01 | 77.23 | 2.02 | 1.72 | 34.57 | 125.62 |
| 686 | 52.11 | 122.06 | 2.62 | 1.82 | 24.20 | 130.24 |
| 687 | 52.26 | 186.13 | 4.47 | 1.91 | 20.87 | 132.32 |
| 688 | 52.30 | 177.33 | 4.12 | 1.91 | 16.50 | 133.89 |
| 689 | 52.33 | 263.97 | 4.17 | 2.01 | 12.89 | 134.16 |
| 690 | 52.35 | 303.94 | 4.21 | 2.01 | 9.58 | 134.71 |
| 691 | 52.40 | 340.79 | 4.23 | 2.10 | 7.60 | 135.11 |
| 692 | 52.45 | 397.77 | 4.28 | 2.10 | 6.58 | 135.59 |
| 693 | 52.50 | 405.87 | 4.66 | 2.10 | 5.88 | 136.22 |
| 694 | 52.55 | 443.01 | 5.01 | 2.20 | 5.51 | 137.00 |
| 695 | 52.60 | 493.01 | 5.46 | 2.29 | 4.93 | 137.28 |
| 696 | 52.65 | 523.48 | 5.64 | 2.29 | 4.29 | 137.28 |
| 697 | 52.71 | 531.47 | 4.88 | 2.29 | 3.82 | 137.28 |
| 698 | 52.77 | 538.36 | 4.91 | 2.39 | 3.33 | 137.17 |
| 699 | 52.82 | 555.56 | 4.74 | 2.48 | 2.92 | 137.04 |
| 700 | 52.88 | 581.47 | 4.49 | 2.48 | 2.56 | 137.02 |
| 701 | 52.93 | 597.26 | 4.71 | 2.48 | 2.35 | 137.05 |
| 702 | 52.98 | 597.36 | 4.69 | 2.68 | 2.26 | 137.26 |
| 703 | 53.03 | 622.36 | 4.79 | 2.77 | 2.29 | 137.28 |
| 704 | 53.08 | 606.07 | 4.93 | 2.77 | 2.33 | 137.28 |
| 705 | 53.12 | 596.25 | 4.80 | 2.87 | 2.35 | 137.28 |
| 706 | 53.17 | 600.60 | 4.53 | 2.96 | 2.30 | 137.12 |
| 707 | 53.23 | 597.67 | 4.62 | 2.96 | 2.17 | 136.97 |
| 708 | 53.28 | 603.74 | 4.51 | 2.96 | 2.36 | 137.15 |
| 709 | 53.37 | 587.14 | 4.91 | 2.96 | 2.61 | 137.28 |
| 710 | 53.42 | 574.49 | 5.08 | 2.96 | 2.84 | 137.28 |
| 711 | 53.46 | 590.58 | 5.02 | 3.06 | 3.06 | 137.28 |
| 712 | 53.53 | 595.24 | 5.73 | 3.06 | 3.30 | 137.28 |
| 713 | 53.61 | 611.13 | 6.49 | 3.15 | 3.78 | 137.28 |
| 714 | 53.62 | 585.52 | 6.56 | 3.15 | 4.29 | 137.28 |
| 715 | 53.65 | 550.00 | 6.65 | 3.15 | 4.43 | 137.28 |
| 716 | 53.67 | 586.48 | 6.45 | 3.15 | 4.49 | 137.28 |
| 717 | 53.70 | 577.42 | 6.61 | 3.15 | 4.24 | 137.28 |
| 718 | 53.74 | 587.44 | 6.53 | 3.25 | 4.32 | 137.28 |
| 719 | 53.76 | 583.50 | 6.67 | 3.25 | 4.30 | 137.28 |
| 720 | 53.80 | 580.36 | 6.60 | 3.35 | 4.27 | 137.28 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 721 | 53.84 | 579.25 | 6.26 | 3.35 | 4.16 | 137.28 |
| 722 | 53.90 | 573.68 | 6.10 | 3.54 | 4.02 | 137.28 |
| 723 | 53.91 | 581.62 | 6.13 | 3.54 | 4.14 | 137.28 |
| 724 | 53.95 | 555.16 | 6.20 | 3.35 | 4.11 | 137.28 |
| 725 | 53.96 | 584.00 | 6.20 | 3.54 | 4.03 | 137.28 |
| 726 | 53.98 | 600.50 | 6.20 | 3.35 | 3.69 | 137.28 |
| 727 | 53.99 | 618.52 | 6.20 | 3.54 | 3.66 | 137.28 |
| 728 | 54.01 | 589.67 | 6.20 | 3.54 | 3.83 | 137.28 |
| 729 | 54.02 | 568.11 | 6.20 | 3.54 | 4.04 | 137.28 |
| 730 | 54.03 | 580.06 | 6.20 | 3.44 | 4.51 | 137.28 |
| 731 | 54.04 | 511.13 | 6.23 | 3.44 | 5.55 | 137.28 |
| 732 | 54.05 | 423.17 | 6.26 | 3.44 | 7.02 | 137.28 |
| 733 | 54.09 | 422.06 | 6.38 | 3.44 | 8.01 | 137.28 |
| 734 | 54.10 | 422.52 | 6.39 | 3.44 | 8.11 | 137.28 |
| 735 | 54.13 | 420.04 | 6.40 | 3.44 | 8.10 | 137.28 |
| 736 | 54.14 | 422.97 | 6.38 | 3.54 | 8.17 | 137.28 |
| 737 | 54.19 | 419.73 | 6.47 | 3.54 | 8.19 | 137.28 |
| 738 | 54.19 | 425.60 | 6.59 | 3.54 | 8.13 | 137.28 |
| 739 | 54.24 | 440.89 | 6.74 | 3.54 | 7.58 | 137.28 |
| 740 | 54.29 | 451.01 | 5.95 | 3.63 | 6.38 | 137.28 |
| 741 | 54.33 | 478.84 | 4.90 | 3.63 | 4.97 | 137.18 |
| 742 | 54.38 | 492.30 | 4.37 | 3.73 | 3.90 | 136.44 |
| 743 | 54.39 | 513.56 | 4.28 | 3.73 | 3.34 | 136.18 |
| 744 | 54.43 | 532.08 | 4.28 | 3.82 | 3.17 | 136.44 |
| 745 | 54.48 | 541.59 | 4.69 | 3.92 | 2.05 | 135.02 |
| 746 | 54.52 | 555.46 | 1.86 | 4.01 | 1.07 | 133.52 |
| 747 | 54.58 | 572.77 | 2.20 | 4.01 | 0.00 | 131.47 |
| 748 | 54.62 | 593.21 | 2.48 | 4.01 | 0.17 | 132.34 |
| 749 | 54.65 | 595.24 | 2.63 | 4.11 | 0.34 | 133.29 |
| 750 | 54.67 | 624.69 | 3.14 | 4.21 | 0.41 | 134.02 |
| 751 | 54.71 | 649.89 | 3.25 | 4.30 | 0.23 | 134.52 |
| 752 | 54.77 | 699.69 | 3.10 | 4.30 | 0.00 | 132.94 |
| 753 | 54.81 | 688.25 | 1.22 | 4.40 | 0.00 | 131.29 |
| 754 | 54.85 | 720.84 | 1.65 | 4.49 | 0.00 | 129.34 |
| 755 | 54.86 | 702.93 | 1.70 | 4.49 | 0.00 | 130.17 |
| 756 | 54.87 | 703.44 | 1.76 | 4.01 | 0.00 | 130.82 |
| 757 | 54.91 | 703.44 | 2.13 | 4.01 | 0.00 | 131.80 |
| 758 | 54.96 | 703.94 | 2.50 | 4.11 | 0.00 | 132.67 |
| 759 | 55.00 | 713.86 | 2.56 | 4.21 | 0.00 | 133.08 |
| 760 | 55.01 | 691.59 | 2.56 | 4.30 | 0.00 | 133.14 |
| 761 | 55.05 | 681.88 | 2.60 | 4.30 | 0.00 | 133.23 |
| 762 | 55.10 | 663.66 | 2.72 | 4.30 | 0.00 | 133.31 |
| 763 | 55.12 | 607.48 | 2.75 | 4.30 | 0.35 | 133.29 |
| 764 | 55.13 | 539.98 | 2.77 | 3.82 | 0.72 | 133.17 |
| 765 | 55.14 | 565.28 | 2.75 | 3.82 | 0.76 | 133.02 |
| 766 | 55.19 | 583.90 | 2.62 | 3.92 | 0.54 | 132.92 |
| 767 | 55.20 | 581.37 | 2.60 | 3.92 | 0.51 | 132.84 |
| 768 | 55.25 | 563.36 | 2.67 | 3.92 | 0.76 | 132.97 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 769 | 55.29 | 541.49 | 2.82 | 3.92 | 1.13 | 133.28 |
| 770 | 55.33 | 533.19 | 3.02 | 3.82 | 1.75 | 133.67 |
| 771 | 55.38 | 484.21 | 3.29 | 3.82 | 3.14 | 134.78 |
| 772 | 55.48 | 425.91 | 4.60 | 3.73 | 4.92 | 135.85 |
| 773 | 55.57 | 407.69 | 5.12 | 3.82 | 6.63 | 136.68 |
| 774 | 55.63 | 400.40 | 5.18 | 3.73 | 8.12 | 137.28 |
| 775 | 55.72 | 386.03 | 6.83 | 3.82 | 8.85 | 137.28 |
| 776 | 55.80 | 419.53 | 7.09 | 3.92 | 8.57 | 137.28 |
| 777 | 55.86 | 487.55 | 7.03 | 3.92 | 5.58 | 137.28 |
| 778 | 55.97 | 534.41 | 2.93 | 4.01 | 2.94 | 135.99 |
| 779 | 56.01 | 561.43 | 2.52 | 4.11 | 0.84 | 133.07 |
| 780 | 56.06 | 585.62 | 2.75 | 4.11 | 2.80 | 133.29 |
| 781 | 56.11 | 616.29 | 3.05 | 4.21 | 2.89 | 134.29 |
| 782 | 56.15 | 637.24 | 3.61 | 4.21 | 2.94 | 135.21 |
| 783 | 56.20 | 668.42 | 3.85 | 4.21 | 3.11 | 136.08 |
| 784 | 56.27 | 676.92 | 4.26 | 4.21 | 3.34 | 136.55 |
| 785 | 56.27 | 643.97 | 4.36 | 3.54 | 3.72 | 137.19 |
| 786 | 56.30 | 671.45 | 5.00 | 3.63 | 4.59 | 137.28 |
| 787 | 56.33 | 611.03 | 5.86 | 3.63 | 4.98 | 137.28 |
| 788 | 56.35 | 665.99 | 5.93 | 3.73 | 5.33 | 137.28 |
| 789 | 56.40 | 665.78 | 6.04 | 3.73 | 5.05 | 137.28 |
| 790 | 56.41 | 671.65 | 6.02 | 3.73 | 5.04 | 137.28 |
| 791 | 56.44 | 670.44 | 5.96 | 3.73 | 4.83 | 137.28 |
| 792 | 56.49 | 702.32 | 5.96 | 4.01 | 4.63 | 137.28 |
| 793 | 56.54 | 712.65 | 6.04 | 4.01 | 4.51 | 137.28 |
| 794 | 56.58 | 737.34 | 6.69 | 4.01 | 4.47 | 137.28 |
| 795 | 56.59 | 761.53 | 6.82 | 4.01 | 4.50 | 137.28 |
| 796 | 56.64 | 751.51 | 6.82 | 4.11 | 4.44 | 137.28 |
| 797 | 56.69 | 758.80 | 6.82 | 4.11 | 4.36 | 137.28 |
| 798 | 56.73 | 783.90 | 6.89 | 4.11 | 4.18 | 137.28 |
| 799 | 56.78 | 791.59 | 6.79 | 4.01 | 4.03 | 137.28 |
| 800 | 56.83 | 760.01 | 6.22 | 3.92 | 4.01 | 137.28 |
| 801 | 56.88 | 726.82 | 5.89 | 3.92 | 4.11 | 137.28 |
| 802 | 56.89 | 708.40 | 5.80 | 3.92 | 4.29 | 137.28 |
| 803 | 56.95 | 691.29 | 5.71 | 3.92 | 4.27 | 137.28 |
| 804 | 57.01 | 677.73 | 5.02 | 3.92 | 4.25 | 137.28 |
| 805 | 57.07 | 634.81 | 4.55 | 3.92 | 4.06 | 137.16 |
| 806 | 57.11 | 625.10 | 4.12 | 3.92 | 3.10 | 134.76 |
| 807 | 57.17 | 598.27 | 1.33 | 3.92 | 2.28 | 132.45 |
| 808 | 57.26 | 572.36 | 1.93 | 3.92 | 1.15 | 128.54 |
| 809 | 57.31 | 551.41 | 1.12 | 3.82 | 1.89 | 129.56 |
| 810 | 57.37 | 517.20 | 2.07 | 3.92 | 2.19 | 129.21 |
| 811 | 57.45 | 491.70 | 1.77 | 3.82 | 3.04 | 129.89 |
| 812 | 57.51 | 461.74 | 1.72 | 3.92 | 3.56 | 129.21 |
| 813 | 57.53 | 400.30 | 1.71 | 3.44 | 4.16 | 128.95 |
| 814 | 57.59 | 402.43 | 1.70 | 3.35 | 4.63 | 128.80 |
| 815 | 57.63 | 401.31 | 1.70 | 3.35 | 4.68 | 128.76 |
| 816 | 57.68 | 393.01 | 1.70 | 3.35 | 4.88 | 128.72 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 817 | 57.73 | 380.06 | 1.70 | 3.35 | 5.00 | 128.66 |
| 818 | 57.78 | 386.23 | 1.69 | 3.25 | 5.00 | 128.45 |
| 819 | 57.86 | 370.64 | 1.59 | 3.25 | 5.00 | 127.83 |
| 820 | 57.92 | 322.87 | 1.37 | 3.25 | 5.00 | 127.38 |
| 821 | 57.98 | 285.32 | 1.55 | 3.15 | 5.00 | 126.34 |
| 822 | 58.06 | 264.17 | 1.14 | 3.15 | 8.62 | 126.17 |
| 823 | 58.12 | 240.38 | 1.42 | 3.06 | 10.36 | 126.82 |
| 824 | 58.21 | 224.09 | 2.06 | 3.06 | 12.69 | 127.74 |
| 825 | 58.26 | 202.63 | 1.92 | 2.96 | 14.68 | 128.10 |
| 826 | 58.35 | 186.44 | 1.85 | 2.87 | 16.91 | 127.69 |
| 827 | 58.41 | 151.92 | 1.98 | 2.77 | 18.65 | 126.15 |
| 828 | 58.50 | 126.31 | 1.07 | 2.77 | 22.32 | 124.42 |
| 829 | 58.56 | 90.18 | 1.13 | 2.68 | 25.70 | 122.30 |
| 830 | 58.64 | 77.93 | 1.17 | 2.68 | 32.24 | 121.95 |
| 831 | 58.73 | 65.49 | 1.17 | 2.58 | 38.56 | 121.50 |
| 832 | 58.80 | 47.47 | 1.15 | 2.58 | 46.17 | 120.90 |
| 833 | 58.84 | 40.28 | 1.14 | 2.58 | 53.64 | 120.39 |
| 834 | 58.85 | 38.87 | 1.15 | 2.10 | 52.29 | 120.54 |
| 835 | 58.93 | 52.12 | 1.18 | 2.10 | 46.67 | 120.88 |
| 836 | 58.98 | 60.42 | 1.13 | 2.10 | 41.28 | 121.05 |
| 837 | 59.02 | 61.74 | 1.07 | 2.01 | 38.75 | 120.92 |
| 838 | 59.12 | 63.06 | 1.05 | 2.01 | 37.78 | 120.90 |
| 839 | 59.17 | 65.28 | 1.10 | 1.91 | 37.23 | 121.24 |
| 840 | 59.27 | 67.81 | 1.19 | 1.91 | 37.05 | 121.75 |
| 841 | 59.31 | 68.83 | 1.26 | 1.82 | 37.57 | 122.15 |
| 842 | 59.41 | 66.19 | 1.29 | 1.82 | 39.18 | 122.16 |
| 843 | 59.46 | 59.41 | 1.25 | 1.72 | 42.47 | 121.59 |
| 844 | 59.55 | 48.28 | 1.11 | 1.72 | 47.58 | 120.51 |
| 845 | 59.65 | 38.56 | 0.98 | 1.62 | 52.69 | 118.45 |
| 846 | 59.70 | 32.08 | 0.61 | 1.62 | 56.48 | 116.90 |
| 847 | 59.80 | 32.03 | 0.70 | 1.62 | 57.81 | 115.98 |
| 848 | 59.89 | 32.03 | 0.75 | 1.62 | 59.47 | 116.71 |
| 849 | 59.94 | 31.98 | 0.83 | 1.53 | 62.29 | 117.23 |
| 850 | 60.01 | 29.05 | 0.89 | 1.53 | 64.42 | 117.61 |
| 851 | 60.02 | 29.96 | 0.90 | 1.05 | 61.57 | 118.05 |
| 852 | 60.08 | 38.87 | 0.92 | 1.05 | 57.81 | 118.31 |
| 853 | 60.12 | 37.75 | 0.91 | 1.05 | 56.24 | 118.23 |
| 854 | 60.17 | 33.00 | 0.85 | 1.05 | 59.45 | 117.26 |
| 855 | 60.27 | 27.83 | 0.68 | 0.96 | 63.29 | 115.67 |
| 856 | 60.31 | 24.80 | 0.53 | 0.96 | 66.90 | 113.84 |
| 857 | 60.37 | 21.76 | 0.47 | 0.96 | 69.47 | 112.16 |
| 858 | 60.46 | 20.04 | 0.38 | 0.96 | 70.56 | 111.08 |
| 859 | 60.51 | 20.95 | 0.36 | 0.96 | 68.92 | 110.12 |
| 860 | 60.61 | 21.25 | 0.32 | 0.96 | 66.37 | 109.76 |
| 861 | 60.65 | 22.06 | 0.32 | 0.96 | 64.85 | 109.53 |
| 862 | 60.75 | 22.17 | 0.33 | 0.96 | 64.20 | 109.61 |
| 863 | 60.81 | 22.27 | 0.33 | 0.96 | 64.08 | 109.63 |
| 864 | 60.89 | 22.27 | 0.33 | 0.96 | 63.94 | 109.50 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 865 | 60.94 | 22.06 | 0.31 | 0.96 | 63.62 | 109.62 |
| 866 | 61.03 | 22.98 | 0.34 | 0.96 | 63.91 | 109.95 |
| 867 | 61.09 | 22.77 | 0.37 | 0.96 | 64.04 | 110.05 |
| 868 | 61.19 | 22.17 | 0.32 | 0.96 | 64.33 | 109.85 |
| 869 | 61.24 | 22.17 | 0.32 | 0.96 | 62.81 | 109.78 |
| 870 | 61.33 | 24.49 | 0.35 | 0.96 | 60.69 | 110.44 |
| 871 | 61.38 | 26.82 | 0.39 | 0.96 | 65.07 | 112.24 |
| 872 | 61.47 | 21.25 | 0.62 | 0.96 | 71.67 | 113.99 |
| 873 | 61.53 | 21.36 | 0.74 | 0.96 | 79.17 | 115.51 |
| 874 | 61.62 | 22.98 | 0.84 | 0.96 | 67.75 | 116.60 |
| 875 | 61.70 | 38.46 | 0.78 | 0.96 | 49.71 | 119.32 |
| 876 | 61.77 | 71.96 | 1.30 | 0.96 | 39.07 | 122.50 |
| 877 | 61.86 | 89.98 | 1.86 | 1.05 | 35.53 | 124.72 |
| 878 | 61.95 | 83.91 | 1.82 | 0.96 | 37.04 | 125.34 |
| 879 | 61.97 | 69.13 | 1.75 | 0.96 | 40.15 | 124.80 |
| 880 | 62.01 | 64.78 | 1.66 | 0.76 | 44.89 | 124.10 |
| 881 | 62.10 | 53.14 | 1.59 | 0.96 | 50.12 | 122.90 |
| 882 | 62.24 | 38.56 | 1.26 | 0.86 | 45.56 | 121.95 |
| 883 | 62.34 | 74.49 | 1.03 | 0.96 | 29.67 | 122.37 |
| 884 | 62.49 | 150.00 | 1.24 | 1.05 | 20.54 | 123.30 |
| 885 | 62.54 | 158.20 | 1.26 | 1.05 | 16.26 | 124.73 |
| 886 | 62.66 | 185.32 | 1.44 | 1.05 | 14.83 | 125.34 |
| 887 | 62.74 | 200.61 | 1.45 | 1.05 | 13.53 | 125.96 |
| 888 | 62.87 | 213.05 | 1.49 | 1.05 | 12.71 | 126.26 |
| 889 | 62.92 | 221.25 | 1.54 | 1.05 | 12.47 | 126.53 |
| 890 | 63.03 | 217.20 | 1.57 | 1.05 | 12.52 | 126.76 |
| 891 | 63.15 | 219.03 | 1.63 | 1.15 | 12.78 | 126.94 |
| 892 | 63.26 | 217.91 | 1.66 | 1.15 | 13.29 | 127.02 |
| 893 | 63.37 | 202.33 | 1.66 | 1.15 | 13.86 | 126.99 |
| 894 | 63.45 | 199.80 | 1.66 | 1.15 | 13.98 | 126.43 |
| 895 | 63.54 | 198.28 | 1.34 | 1.15 | 13.43 | 125.53 |
| 896 | 63.61 | 194.63 | 1.14 | 1.15 | 13.55 | 124.83 |
| 897 | 63.69 | 177.93 | 1.33 | 1.15 | 15.16 | 124.41 |
| 898 | 63.79 | 143.52 | 1.25 | 1.15 | 19.52 | 124.50 |
| 899 | 63.89 | 103.64 | 1.44 | 1.15 | 24.98 | 122.85 |
| 900 | 63.98 | 71.25 | 0.85 | 1.15 | 33.14 | 121.18 |
| 901 | 64.07 | 50.71 | 0.88 | 1.15 | 41.48 | 118.58 |
| 902 | 64.15 | 37.45 | 0.76 | 1.15 | 52.38 | 117.41 |
| 903 | 64.23 | 29.15 | 0.71 | 1.15 | 63.17 | 116.21 |
| 904 | 64.26 | 23.28 | 0.70 | 1.15 | 71.64 | 115.56 |
| 905 | 64.29 | 22.98 | 0.70 | 1.43 | 74.94 | 115.28 |
| 906 | 64.33 | 24.39 | 0.67 | 1.43 | 73.52 | 114.50 |
| 907 | 64.43 | 22.67 | 0.50 | 1.43 | 71.96 | 113.44 |
| 908 | 64.47 | 21.86 | 0.45 | 1.53 | 70.64 | 112.07 |
| 909 | 64.53 | 22.27 | 0.41 | 1.53 | 70.50 | 111.44 |
| 910 | 64.62 | 21.25 | 0.40 | 1.53 | 73.02 | 110.99 |
| 911 | 64.72 | 18.22 | 0.40 | 1.53 | 77.07 | 110.67 |
| 912 | 64.78 | 17.81 | 0.39 | 1.53 | 81.00 | 110.63 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 913 | 64.86 | 17.91 | 0.41 | 1.53 | 81.31 | 111.04 |
| 914 | 64.96 | 18.83 | 0.47 | 1.62 | 81.88 | 112.08 |
| 915 | 65.06 | 19.53 | 0.57 | 1.62 | 82.82 | 113.03 |
| 916 | 65.11 | 19.23 | 0.60 | 1.62 | 84.86 | 113.77 |
| 917 | 65.21 | 18.83 | 0.64 | 1.62 | 87.03 | 114.04 |
| 918 | 65.31 | 18.42 | 0.64 | 1.62 | 88.72 | 114.06 |
| 919 | 65.40 | 18.02 | 0.62 | 1.62 | 86.96 | 113.18 |
| 920 | 65.50 | 18.32 | 0.43 | 1.62 | 82.58 | 111.98 |
| 921 | 65.58 | 19.33 | 0.38 | 1.62 | 77.73 | 110.66 |
| 922 | 65.68 | 19.33 | 0.38 | 1.72 | 76.23 | 110.07 |
| 923 | 65.78 | 18.42 | 0.34 | 1.72 | 80.14 | 109.58 |
| 924 | 65.84 | 15.18 | 0.33 | 1.72 | 84.20 | 109.11 |
| 925 | 65.86 | 15.54 | 0.33 | 1.72 | 87.64 | 108.93 |
| 926 | 65.87 | 15.89 | 0.33 | 1.72 | 83.53 | 109.02 |
| 927 | 65.98 | 18.02 | 0.33 | 1.72 | 80.56 | 109.07 |
| 928 | 66.10 | 17.81 | 0.33 | 1.72 | 79.47 | 109.53 |
| 929 | 66.21 | 17.61 | 0.38 | 1.72 | 79.99 | 110.29 |
| 930 | 66.34 | 19.13 | 0.43 | 1.72 | 79.70 | 110.56 |
| 931 | 66.48 | 18.62 | 0.36 | 1.72 | 78.52 | 110.82 |
| 932 | 66.62 | 19.18 | 0.42 | 1.72 | 79.48 | 110.40 |
| 933 | 66.68 | 17.51 | 0.38 | 1.72 | 80.06 | 110.93 |
| 934 | 66.87 | 19.23 | 0.44 | 1.82 | 82.16 | 112.09 |
| 935 | 66.96 | 19.94 | 0.62 | 1.82 | 85.60 | 113.68 |
| 936 | 67.11 | 18.22 | 0.72 | 1.82 | 91.78 | 114.55 |
| 937 | 67.21 | 16.50 | 0.70 | 1.82 | 96.41 | 113.97 |
| 938 | 67.35 | 15.69 | 0.52 | 1.82 | 96.63 | 113.04 |
| 939 | 67.45 | 16.40 | 0.51 | 1.82 | 100.00 | 114.17 |
| 940 | 67.59 | 16.30 | 0.99 | 1.82 | 74.11 | 118.15 |
| 941 | 67.68 | 49.49 | 1.42 | 1.82 | 36.45 | 123.51 |
| 942 | 67.83 | 166.29 | 1.89 | 1.91 | 19.64 | 126.78 |
| 943 | 67.92 | 263.46 | 1.98 | 1.91 | 12.65 | 128.48 |
| 944 | 68.02 | 293.92 | 1.94 | 1.91 | 10.42 | 129.17 |
| 945 | 68.07 | 292.10 | 2.13 | 2.01 | 9.92 | 129.67 |
| 946 | 68.16 | 310.93 | 2.28 | 2.01 | 9.66 | 129.78 |
| 947 | 68.26 | 313.97 | 1.99 | 2.01 | 9.50 | 129.92 |
| 948 | 68.35 | 307.79 | 2.22 | 2.01 | 9.90 | 130.20 |
| 949 | 68.45 | 301.41 | 2.56 | 2.01 | 10.63 | 130.56 |
| 950 | 68.55 | 290.58 | 2.39 | 2.01 | 11.31 | 130.75 |
| 951 | 68.65 | 282.39 | 2.48 | 2.01 | 12.31 | 130.45 |
| 952 | 68.78 | 242.10 | 2.43 | 2.01 | 13.49 | 130.30 |
| 953 | 68.78 | 236.18 | 2.41 | 2.01 | 14.48 | 130.04 |
| 954 | 68.79 | 236.18 | 2.38 | 2.01 | 14.61 | 129.83 |
| 955 | 68.83 | 230.26 | 2.26 | 2.10 | 13.84 | 129.35 |
| 956 | 68.93 | 246.56 | 1.93 | 2.20 | 12.61 | 128.54 |
| 957 | 68.98 | 254.15 | 1.63 | 2.20 | 11.06 | 127.54 |
| 958 | 69.04 | 259.82 | 1.45 | 2.20 | 10.24 | 126.83 |
| 959 | 69.12 | 259.31 | 1.45 | 2.20 | 10.05 | 126.69 |
| 960 | 69.22 | 258.60 | 1.54 | 2.29 | 10.33 | 126.73 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 961 | 69.28 | 248.07 | 1.50 | 2.29 | 10.73 | 126.58 |
| 962 | 69.36 | 236.43 | 1.40 | 2.29 | 11.11 | 126.14 |
| 963 | 69.45 | 227.63 | 1.34 | 2.29 | 11.72 | 125.57 |
| 964 | 69.60 | 206.58 | 1.26 | 2.29 | 12.39 | 125.02 |
| 965 | 69.70 | 196.05 | 1.19 | 2.29 | 13.09 | 124.55 |
| 966 | 69.80 | 191.80 | 1.17 | 2.29 | 13.36 | 124.31 |
| 967 | 69.89 | 192.31 | 1.17 | 2.29 | 13.46 | 124.27 |
| 968 | 69.98 | 192.00 | 1.18 | 2.39 | 13.63 | 124.23 |
| 969 | 70.08 | 186.03 | 1.17 | 2.39 | 14.12 | 123.79 |
| 970 | 70.18 | 167.51 | 1.02 | 2.39 | 16.36 | 123.38 |
| 971 | 70.32 | 125.81 | 1.13 | 2.39 | 21.31 | 122.57 |
| 972 | 70.42 | 79.55 | 1.08 | 2.29 | 30.56 | 121.25 |
| 973 | 70.54 | 47.47 | 0.86 | 2.29 | 44.49 | 118.96 |
| 974 | 70.66 | 28.34 | 0.70 | 2.29 | 62.02 | 116.28 |
| 975 | 70.75 | 19.64 | 0.59 | 2.29 | 75.05 | 114.30 |
| 976 | 70.80 | 22.47 | 0.52 | 2.48 | 75.37 | 112.45 |
| 977 | 70.89 | 23.18 | 0.33 | 2.48 | 68.76 | 110.56 |
| 978 | 70.99 | 22.17 | 0.25 | 2.48 | 64.60 | 108.11 |
| 979 | 71.08 | 21.56 | 0.21 | 2.48 | 63.51 | 106.54 |
| 980 | 71.17 | 21.05 | 0.19 | 2.58 | 62.68 | 105.76 |
| 981 | 71.23 | 21.56 | 0.19 | 2.58 | 63.23 | 105.32 |
| 982 | 71.33 | 20.04 | 0.18 | 2.58 | 62.20 | 104.96 |
| 983 | 71.42 | 21.56 | 0.16 | 2.58 | 59.64 | 104.34 |
| 984 | 71.52 | 23.48 | 0.14 | 2.58 | 56.37 | 103.78 |
| 985 | 71.58 | 23.28 | 0.14 | 2.58 | 56.41 | 104.37 |
| 986 | 71.67 | 22.77 | 0.19 | 2.58 | 59.63 | 105.94 |
| 987 | 71.81 | 22.47 | 0.26 | 2.68 | 62.96 | 107.28 |
| 988 | 71.82 | 22.06 | 0.26 | 2.68 | 64.77 | 107.94 |
| 989 | 71.86 | 22.06 | 0.26 | 2.68 | 65.57 | 107.99 |
| 990 | 71.91 | 21.66 | 0.26 | 2.68 | 65.98 | 108.01 |
| 991 | 71.97 | 21.66 | 0.26 | 2.68 | 66.78 | 108.09 |
| 992 | 72.05 | 21.36 | 0.27 | 2.68 | 67.69 | 108.22 |
| 993 | 72.10 | 20.95 | 0.28 | 2.68 | 68.75 | 108.41 |
| 994 | 72.20 | 20.95 | 0.29 | 2.68 | 69.45 | 108.55 |
| 995 | 72.25 | 20.95 | 0.29 | 2.77 | 70.00 | 108.81 |
| 996 | 72.34 | 20.95 | 0.31 | 2.77 | 70.88 | 109.34 |
| 997 | 72.44 | 21.25 | 0.35 | 2.77 | 72.30 | 109.98 |
| 998 | 72.53 | 20.95 | 0.38 | 2.77 | 74.03 | 110.47 |
| 999 | 72.63 | 20.34 | 0.39 | 2.77 | 74.87 | 110.69 |
| 1000 | 72.69 | 20.95 | 0.39 | 2.77 | 75.74 | 110.64 |
| 1001 | 72.82 | 20.04 | 0.38 | 2.77 | 75.05 | 110.60 |
| 1002 | 72.92 | 20.95 | 0.38 | 2.77 | 73.32 | 110.41 |
| 1003 | 73.06 | 22.27 | 0.35 | 2.87 | 70.40 | 110.34 |
| 1004 | 73.16 | 22.98 | 0.35 | 2.87 | 70.10 | 110.49 |
| 1005 | 73.30 | 21.66 | 0.39 | 2.87 | 74.63 | 110.57 |
| 1006 | 73.35 | 17.81 | 0.39 | 2.87 | 78.07 | 110.69 |
| 1007 | 73.38 | 20.04 | 0.39 | 2.87 | 79.92 | 110.48 |
| 1008 | 73.47 | 19.64 | 0.37 | 2.87 | 77.08 | 110.44 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1009 | 73.53 | 20.24 | 0.37 | 2.96 | 76.55 | 110.30 |
| 1010 | 73.62 | 20.24 | 0.36 | 2.96 | 76.12 | 110.24 |
| 1011 | 73.71 | 19.94 | 0.36 | 2.96 | 77.10 | 110.31 |
| 1012 | 73.77 | 19.53 | 0.38 | 2.96 | 79.03 | 110.64 |
| 1013 | 73.86 | 19.23 | 0.42 | 3.06 | 81.15 | 111.10 |
| 1014 | 73.96 | 19.13 | 0.45 | 3.06 | 82.23 | 111.57 |
| 1015 | 74.06 | 19.64 | 0.47 | 3.06 | 82.36 | 111.89 |
| 1016 | 74.13 | 19.84 | 0.48 | 3.06 | 81.49 | 112.15 |
| 1017 | 74.24 | 20.45 | 0.48 | 3.06 | 80.85 | 112.33 |
| 1018 | 74.34 | 20.65 | 0.50 | 3.06 | 80.73 | 112.54 |
| 1019 | 74.44 | 20.45 | 0.51 | 3.06 | 81.57 | 112.67 |
| 1020 | 74.58 | 20.04 | 0.51 | 3.06 | 81.41 | 112.52 |
| 1021 | 74.68 | 20.50 | 0.47 | 3.06 | 78.40 | 111.21 |
| 1022 | 74.80 | 20.24 | 0.27 | 3.15 | 74.93 | 109.94 |
| 1023 | 74.92 | 20.55 | 0.31 | 3.15 | 73.80 | 109.11 |
| 1024 | 75.07 | 19.84 | 0.36 | 3.15 | 75.92 | 109.75 |
| 1025 | 75.08 | 19.64 | 0.36 | 3.15 | 77.59 | 110.03 |
| 1026 | 75.11 | 19.64 | 0.36 | 3.25 | 78.16 | 110.07 |
| 1027 | 75.16 | 19.43 | 0.37 | 3.25 | 78.98 | 110.30 |
| 1028 | 75.25 | 19.43 | 0.39 | 3.25 | 80.91 | 110.74 |
| 1029 | 75.32 | 18.93 | 0.43 | 3.35 | 82.63 | 111.17 |
| 1030 | 75.40 | 18.93 | 0.44 | 3.35 | 83.61 | 111.30 |
| 1031 | 75.50 | 18.93 | 0.42 | 3.35 | 83.49 | 110.99 |
| 1032 | 75.59 | 18.42 | 0.38 | 3.35 | 83.68 | 110.27 |
| 1033 | 75.69 | 17.41 | 0.34 | 3.35 | 84.66 | 109.43 |
| 1034 | 75.78 | 16.70 | 0.31 | 3.35 | 85.61 | 108.57 |
| 1035 | 75.88 | 16.30 | 0.28 | 3.35 | 85.84 | 107.84 |
| 1036 | 75.96 | 16.09 | 0.26 | 3.35 | 85.52 | 107.10 |
| 1037 | 76.05 | 15.79 | 0.24 | 3.35 | 84.67 | 106.59 |
| 1038 | 76.14 | 16.09 | 0.23 | 3.44 | 84.37 | 106.31 |
| 1039 | 76.26 | 15.89 | 0.23 | 3.44 | 84.09 | 106.37 |
| 1040 | 76.36 | 16.09 | 0.24 | 3.44 | 84.42 | 106.50 |
| 1041 | 76.41 | 16.09 | 0.24 | 3.44 | 84.56 | 106.55 |
| 1042 | 76.51 | 15.89 | 0.23 | 3.44 | 85.32 | 106.38 |
| 1043 | 76.65 | 15.38 | 0.23 | 3.44 | 86.78 | 106.27 |
| 1044 | 76.72 | 15.08 | 0.24 | 3.44 | 88.00 | 106.27 |
| 1045 | 76.79 | 15.18 | 0.24 | 3.54 | 88.79 | 106.37 |
| 1046 | 76.89 | 15.08 | 0.24 | 3.54 | 90.66 | 107.25 |
| 1047 | 76.98 | 15.28 | 0.33 | 3.54 | 97.45 | 110.24 |
| 1048 | 77.08 | 15.89 | 0.64 | 3.54 | 92.62 | 112.89 |
| 1049 | 77.18 | 22.67 | 0.68 | 3.54 | 84.18 | 115.44 |
| 1050 | 77.28 | 27.83 | 0.85 | 3.54 | 77.43 | 117.59 |
| 1051 | 77.37 | 29.55 | 1.20 | 3.63 | 80.05 | 119.52 |
| 1052 | 77.42 | 26.11 | 1.45 | 3.63 | 81.77 | 120.82 |
| 1053 | 77.42 | 30.47 | 1.49 | 3.73 | 80.76 | 121.59 |
| 1054 | 77.44 | 33.91 | 1.59 | 3.73 | 75.56 | 122.42 |
| 1055 | 77.48 | 37.45 | 1.79 | 3.73 | 72.09 | 123.26 |
| 1056 | 77.52 | 40.69 | 1.91 | 3.82 | 69.21 | 123.98 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1057 | 77.54 | 43.52 | 1.97 | 3.82 | 67.19 | 124.41 |
| 1058 | 77.57 | 44.43 | 2.03 | 3.82 | 67.13 | 124.60 |
| 1059 | 77.62 | 42.00 | 2.05 | 3.82 | 68.46 | 124.53 |
| 1060 | 77.65 | 40.18 | 1.97 | 3.82 | 70.82 | 124.28 |
| 1061 | 77.67 | 37.96 | 1.92 | 3.82 | 71.65 | 123.83 |
| 1062 | 77.71 | 37.85 | 1.76 | 3.82 | 71.90 | 123.46 |
| 1063 | 77.71 | 37.75 | 1.73 | 3.73 | 71.69 | 122.88 |
| 1064 | 77.76 | 35.32 | 1.55 | 3.82 | 73.39 | 122.11 |
| 1065 | 77.81 | 31.07 | 1.35 | 3.73 | 75.70 | 120.92 |
| 1066 | 77.90 | 28.74 | 1.16 | 3.82 | 78.54 | 119.86 |
| 1067 | 77.95 | 27.13 | 1.11 | 3.82 | 80.91 | 119.27 |
| 1068 | 78.01 | 25.91 | 1.14 | 3.82 | 82.45 | 118.93 |
| 1069 | 78.10 | 25.81 | 1.05 | 3.82 | 78.83 | 118.74 |
| 1070 | 78.16 | 30.87 | 0.98 | 3.82 | 63.10 | 119.02 |
| 1071 | 78.24 | 52.02 | 0.97 | 3.92 | 49.66 | 119.64 |
| 1072 | 78.29 | 63.76 | 1.00 | 3.92 | 39.63 | 120.51 |
| 1073 | 78.39 | 78.54 | 1.05 | 3.92 | 34.27 | 121.15 |
| 1074 | 78.47 | 89.78 | 1.06 | 3.92 | 31.50 | 121.96 |
| 1075 | 78.53 | 93.42 | 1.23 | 3.92 | 31.16 | 123.05 |
| 1076 | 78.62 | 94.84 | 1.51 | 3.92 | 32.43 | 124.23 |
| 1077 | 78.68 | 94.33 | 1.70 | 3.92 | 34.74 | 124.97 |
| 1078 | 78.69 | 84.31 | 1.76 | 3.92 | 35.67 | 125.92 |
| 1079 | 78.78 | 100.10 | 2.16 | 3.92 | 36.75 | 126.73 |
| 1080 | 78.81 | 97.27 | 2.34 | 3.92 | 38.10 | 127.66 |
| 1081 | 78.92 | 87.04 | 2.58 | 3.92 | 41.97 | 127.53 |
| 1082 | 79.03 | 71.36 | 2.29 | 3.92 | 46.36 | 126.48 |
| 1083 | 79.16 | 59.92 | 1.72 | 3.92 | 46.07 | 125.04 |
| 1084 | 79.26 | 73.78 | 1.52 | 4.01 | 39.53 | 124.49 |
| 1085 | 79.35 | 101.31 | 1.66 | 4.01 | 33.43 | 125.47 |
| 1086 | 79.45 | 116.80 | 2.02 | 4.01 | 30.53 | 126.98 |
| 1087 | 79.54 | 125.00 | 2.38 | 4.01 | 29.73 | 128.12 |
| 1088 | 79.64 | 130.77 | 2.50 | 4.01 | 29.16 | 128.84 |
| 1089 | 79.74 | 137.75 | 2.60 | 4.11 | 26.56 | 130.21 |
| 1090 | 79.88 | 191.60 | 3.45 | 4.21 | 23.02 | 131.59 |
| 1091 | 79.98 | 231.27 | 3.61 | 4.21 | 19.11 | 132.52 |
| 1092 | 80.12 | 263.76 | 3.19 | 4.21 | 17.02 | 132.38 |
| 1093 | 80.22 | 251.11 | 2.99 | 4.21 | 15.38 | 131.25 |
| 1094 | 80.36 | 244.53 | 2.16 | 4.21 | 14.66 | 129.87 |
| 1095 | 80.46 | 238.56 | 1.83 | 4.21 | 13.44 | 128.07 |
| 1096 | 80.60 | 233.20 | 1.51 | 4.21 | 12.69 | 126.55 |
| 1097 | 80.70 | 223.58 | 1.18 | 4.21 | 12.64 | 125.70 |
| 1098 | 80.83 | 214.78 | 1.39 | 4.30 | 13.47 | 125.59 |
| 1099 | 80.94 | 200.81 | 1.51 | 4.30 | 15.55 | 125.88 |
| 1100 | 81.01 | 167.71 | 1.47 | 4.21 | 17.35 | 125.78 |
| 1101 | 81.04 | 165.18 | 1.46 | 4.40 | 18.79 | 125.42 |
| 1102 | 81.09 | 159.61 | 1.41 | 4.40 | 19.43 | 125.22 |
| 1103 | 81.13 | 150.30 | 1.41 | 4.40 | 20.68 | 125.10 |
| 1104 | 81.18 | 138.66 | 1.47 | 4.40 | 23.02 | 125.16 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1105 | 81.23 | 121.46 | 1.58 | 4.40 | 26.12 | 125.34 |
| 1106 | 81.28 | 109.61 | 1.68 | 4.40 | 29.84 | 125.42 |
| 1107 | 81.33 | 96.96 | 1.71 | 4.40 | 33.69 | 125.60 |
| 1108 | 81.37 | 87.75 | 1.89 | 4.40 | 38.07 | 125.99 |
| 1109 | 81.42 | 80.57 | 2.17 | 4.40 | 42.18 | 126.42 |
| 1110 | 81.47 | 75.20 | 2.23 | 4.40 | 45.53 | 126.65 |
| 1111 | 81.52 | 71.36 | 2.25 | 4.40 | 47.80 | 126.68 |
| 1112 | 81.56 | 69.23 | 2.31 | 4.40 | 48.75 | 126.82 |
| 1113 | 81.61 | 72.17 | 2.40 | 4.40 | 49.37 | 126.98 |
| 1114 | 81.64 | 70.14 | 2.41 | 4.40 | 50.62 | 127.02 |
| 1115 | 81.70 | 63.87 | 2.40 | 4.40 | 54.71 | 126.72 |
| 1116 | 81.75 | 52.33 | 2.36 | 4.40 | 60.30 | 126.26 |
| 1117 | 81.79 | 46.76 | 2.28 | 4.40 | 66.56 | 125.58 |
| 1118 | 81.82 | 41.40 | 2.11 | 4.40 | 70.87 | 124.78 |
| 1119 | 81.86 | 37.35 | 1.89 | 4.40 | 74.63 | 123.79 |
| 1120 | 81.91 | 33.91 | 1.69 | 4.40 | 77.94 | 122.73 |
| 1121 | 81.95 | 30.57 | 1.50 | 4.40 | 81.32 | 121.53 |
| 1122 | 82.00 | 27.23 | 1.28 | 4.40 | 84.85 | 120.08 |
| 1123 | 82.09 | 23.99 | 1.02 | 4.40 | 88.86 | 118.54 |
| 1124 | 82.15 | 21.36 | 0.91 | 4.40 | 93.55 | 117.24 |
| 1125 | 82.19 | 19.43 | 0.86 | 4.49 | 97.46 | 116.22 |
| 1126 | 82.26 | 18.52 | 0.73 | 4.49 | 100.00 | 115.23 |
| 1127 | 82.34 | 17.00 | 0.65 | 4.49 | 100.00 | 114.22 |
| 1128 | 82.39 | 15.28 | 0.62 | 4.49 | 100.00 | 113.42 |
| 1129 | 82.48 | 14.47 | 0.58 | 4.59 | 100.00 | 112.80 |
| 1130 | 82.58 | 14.37 | 0.53 | 4.59 | 100.00 | 112.31 |
| 1131 | 82.62 | 14.88 | 0.51 | 4.59 | 100.00 | 111.87 |
| 1132 | 82.70 | 14.78 | 0.48 | 4.59 | 100.00 | 111.60 |
| 1133 | 82.77 | 14.78 | 0.47 | 4.59 | 100.00 | 111.26 |
| 1134 | 82.87 | 14.68 | 0.45 | 4.59 | 100.00 | 111.18 |
| 1135 | 82.96 | 15.59 | 0.46 | 4.68 | 100.00 | 111.16 |
| 1136 | 83.06 | 18.22 | 0.44 | 4.68 | 90.71 | 111.46 |
| 1137 | 83.16 | 20.65 | 0.45 | 4.68 | 79.92 | 111.87 |
| 1138 | 83.25 | 25.10 | 0.46 | 4.78 | 72.16 | 112.31 |
| 1139 | 83.34 | 27.43 | 0.46 | 4.78 | 66.55 | 112.65 |
| 1140 | 83.44 | 28.85 | 0.46 | 4.87 | 65.23 | 113.13 |
| 1141 | 83.54 | 28.54 | 0.53 | 4.87 | 65.41 | 113.57 |
| 1142 | 83.64 | 28.64 | 0.54 | 4.87 | 66.63 | 114.00 |
| 1143 | 83.73 | 28.44 | 0.56 | 4.87 | 69.35 | 114.34 |
| 1144 | 83.83 | 25.81 | 0.63 | 4.87 | 71.50 | 114.84 |
| 1145 | 83.85 | 27.33 | 0.67 | 5.07 | 74.13 | 115.50 |
| 1146 | 83.89 | 27.13 | 0.74 | 5.07 | 74.39 | 116.20 |
| 1147 | 83.94 | 27.73 | 0.82 | 5.07 | 76.21 | 117.47 |
| 1148 | 84.04 | 29.25 | 1.08 | 5.07 | 76.59 | 118.57 |
| 1149 | 84.09 | 30.57 | 1.13 | 5.07 | 76.69 | 119.51 |
| 1150 | 84.13 | 31.17 | 1.19 | 5.07 | 76.09 | 119.96 |
| 1151 | 84.18 | 31.88 | 1.26 | 5.07 | 76.24 | 120.30 |
| 1152 | 84.25 | 31.78 | 1.29 | 5.07 | 77.16 | 120.50 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1153 | 84.33 | 30.67 | 1.30 | 5.07 | 79.11 | 120.53 |
| 1154 | 84.37 | 29.25 | 1.31 | 5.07 | 81.52 | 120.45 |
| 1155 | 84.46 | 28.24 | 1.30 | 5.16 | 83.35 | 120.16 |
| 1156 | 84.52 | 27.33 | 1.20 | 5.16 | 84.37 | 119.78 |
| 1157 | 84.57 | 26.72 | 1.15 | 5.16 | 84.59 | 119.32 |
| 1158 | 84.67 | 26.42 | 1.10 | 5.16 | 84.79 | 119.04 |
| 1159 | 84.71 | 26.21 | 1.08 | 5.16 | 85.52 | 118.94 |
| 1160 | 84.81 | 25.61 | 1.12 | 5.16 | 87.61 | 119.09 |
| 1161 | 84.86 | 24.70 | 1.19 | 5.16 | 90.53 | 119.33 |
| 1162 | 84.91 | 23.99 | 1.23 | 5.16 | 93.50 | 119.49 |
| 1163 | 85.00 | 23.28 | 1.24 | 5.16 | 95.77 | 119.52 |
| 1164 | 85.05 | 22.77 | 1.24 | 5.16 | 97.25 | 119.32 |
| 1165 | 85.15 | 22.17 | 1.16 | 5.16 | 97.82 | 118.97 |
| 1166 | 85.19 | 21.86 | 1.09 | 5.16 | 97.66 | 118.30 |
| 1167 | 85.29 | 21.15 | 0.96 | 5.16 | 97.29 | 117.62 |
| 1168 | 85.35 | 20.75 | 0.90 | 5.16 | 97.56 | 116.95 |
| 1169 | 85.42 | 20.04 | 0.86 | 5.16 | 98.84 | 116.52 |
| 1170 | 85.48 | 19.23 | 0.83 | 5.16 | 100.00 | 116.19 |
| 1171 | 85.55 | 18.72 | 0.81 | 5.26 | 100.00 | 115.89 |
| 1172 | 85.63 | 18.12 | 0.79 | 5.26 | 100.00 | 115.64 |
| 1173 | 85.68 | 17.51 | 0.78 | 5.26 | 100.00 | 115.45 |
| 1174 | 85.77 | 17.00 | 0.77 | 5.26 | 100.00 | 115.34 |
| 1175 | 85.82 | 16.80 | 0.77 | 5.26 | 100.00 | 115.39 |
| 1176 | 85.89 | 17.10 | 0.80 | 5.26 | 100.00 | 115.55 |
| 1177 | 85.96 | 18.12 | 0.81 | 5.26 | 100.00 | 115.74 |
| 1178 | 86.03 | 19.53 | 0.79 | 5.26 | 98.42 | 115.81 |
| 1179 | 86.11 | 21.25 | 0.76 | 5.26 | 92.88 | 115.75 |
| 1180 | 86.16 | 22.17 | 0.74 | 5.26 | 88.74 | 115.62 |
| 1181 | 86.25 | 22.67 | 0.72 | 5.26 | 89.87 | 115.47 |
| 1182 | 86.36 | 19.94 | 0.73 | 5.26 | 94.60 | 114.88 |
| 1183 | 86.50 | 17.10 | 0.62 | 5.26 | 100.00 | 114.26 |
| 1184 | 86.51 | 17.21 | 0.61 | 5.26 | 100.00 | 113.63 |
| 1185 | 86.52 | 17.21 | 0.60 | 5.26 | 100.00 | 113.28 |
| 1186 | 86.57 | 17.31 | 0.54 | 5.26 | 100.00 | 112.52 |
| 1187 | 86.65 | 17.31 | 0.44 | 5.35 | 96.58 | 111.56 |
| 1188 | 86.71 | 17.31 | 0.41 | 5.35 | 94.30 | 110.68 |
| 1189 | 86.80 | 17.21 | 0.38 | 5.35 | 94.07 | 110.11 |
| 1190 | 86.90 | 16.50 | 0.35 | 5.45 | 95.37 | 109.44 |
| 1191 | 86.99 | 15.49 | 0.32 | 5.45 | 97.33 | 108.73 |
| 1192 | 87.04 | 15.08 | 0.30 | 5.45 | 98.63 | 108.13 |
| 1193 | 87.14 | 14.98 | 0.28 | 5.45 | 98.41 | 107.81 |
| 1194 | 87.19 | 15.18 | 0.28 | 5.45 | 97.17 | 107.78 |
| 1195 | 87.28 | 15.69 | 0.29 | 5.54 | 95.63 | 108.26 |
| 1196 | 87.38 | 16.50 | 0.33 | 5.54 | 93.79 | 108.83 |
| 1197 | 87.43 | 17.10 | 0.34 | 5.54 | 91.88 | 109.36 |
| 1198 | 87.52 | 17.71 | 0.35 | 5.54 | 89.95 | 109.63 |
| 1199 | 87.61 | 18.22 | 0.36 | 5.64 | 88.28 | 109.78 |
| 1200 | 87.66 | 18.52 | 0.36 | 5.64 | 87.04 | 109.79 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1201 | 87.76 | 18.62 | 0.35 | 5.64 | 86.65 | 109.67 |
| 1202 | 87.84 | 18.32 | 0.34 | 5.64 | 86.71 | 109.46 |
| 1203 | 87.91 | 18.12 | 0.33 | 5.64 | 87.47 | 109.24 |
| 1204 | 88.00 | 17.71 | 0.32 | 5.64 | 88.37 | 109.00 |
| 1205 | 88.11 | 17.31 | 0.31 | 5.73 | 89.54 | 108.84 |
| 1206 | 88.19 | 17.10 | 0.31 | 5.73 | 90.39 | 108.72 |
| 1207 | 88.25 | 17.00 | 0.31 | 5.73 | 90.81 | 108.62 |
| 1208 | 88.34 | 16.90 | 0.30 | 5.73 | 90.64 | 108.42 |
| 1209 | 88.44 | 16.90 | 0.29 | 5.83 | 90.17 | 108.15 |
| 1210 | 88.54 | 16.90 | 0.28 | 5.83 | 89.58 | 107.90 |
| 1211 | 88.64 | 16.90 | 0.27 | 5.83 | 89.37 | 107.73 |
| 1212 | 88.72 | 16.80 | 0.27 | 5.93 | 89.61 | 107.69 |
| 1213 | 88.82 | 16.70 | 0.28 | 5.93 | 90.07 | 107.73 |
| 1214 | 88.91 | 16.70 | 0.28 | 5.93 | 90.83 | 107.82 |
| 1215 | 89.01 | 16.50 | 0.28 | 5.93 | 91.58 | 107.90 |
| 1216 | 89.10 | 16.40 | 0.29 | 5.93 | 92.45 | 107.97 |
| 1217 | 89.19 | 16.30 | 0.29 | 6.02 | 93.00 | 107.82 |
| 1218 | 89.30 | 15.99 | 0.27 | 6.02 | 91.00 | 106.79 |
| 1219 | 89.39 | 16.09 | 0.18 | 6.12 | 89.02 | 106.17 |
| 1220 | 89.49 | 16.60 | 0.23 | 6.12 | 88.22 | 106.44 |
| 1221 | 89.59 | 16.90 | 0.29 | 6.12 | 90.32 | 107.86 |
| 1222 | 89.69 | 16.95 | 0.32 | 6.12 | 91.89 | 108.72 |
| 1223 | 89.73 | 17.00 | 0.33 | 6.21 | 90.02 | 109.17 |
| 1224 | 89.78 | 18.83 | 0.34 | 6.31 | 87.19 | 109.42 |
| 1225 | 89.83 | 19.33 | 0.34 | 6.31 | 84.28 | 109.67 |
| 1226 | 89.88 | 19.64 | 0.35 | 6.31 | 83.80 | 109.89 |
| 1227 | 89.93 | 19.64 | 0.36 | 6.31 | 83.63 | 110.18 |
| 1228 | 90.00 | 20.04 | 0.38 | 6.40 | 83.30 | 110.59 |
| 1229 | 90.07 | 20.75 | 0.41 | 6.40 | 82.14 | 111.03 |
| 1230 | 90.12 | 21.56 | 0.42 | 6.40 | 81.06 | 111.60 |
| 1231 | 90.22 | 22.27 | 0.46 | 6.40 | 80.51 | 112.20 |
| 1232 | 90.27 | 22.67 | 0.50 | 6.40 | 80.53 | 113.17 |
| 1233 | 90.36 | 23.89 | 0.60 | 6.40 | 77.53 | 114.19 |
| 1234 | 90.46 | 28.14 | 0.65 | 6.50 | 73.54 | 115.05 |
| 1235 | 90.50 | 30.06 | 0.66 | 6.50 | 70.62 | 115.50 |
| 1236 | 90.61 | 29.35 | 0.68 | 6.59 | 70.53 | 115.62 |
| 1237 | 90.66 | 28.74 | 0.68 | 6.59 | 71.78 | 115.45 |
| 1238 | 90.75 | 27.73 | 0.63 | 6.59 | 73.00 | 114.95 |
| 1239 | 90.84 | 26.11 | 0.57 | 6.59 | 74.84 | 114.27 |
| 1240 | 90.89 | 24.39 | 0.54 | 6.59 | 76.93 | 113.58 |
| 1241 | 90.99 | 23.38 | 0.50 | 6.59 | 79.28 | 113.09 |
| 1242 | 91.04 | 22.37 | 0.49 | 6.69 | 81.25 | 112.68 |
| 1243 | 91.14 | 21.46 | 0.48 | 6.69 | 83.54 | 112.40 |
| 1244 | 91.22 | 20.65 | 0.47 | 6.79 | 85.84 | 112.13 |
| 1245 | 91.28 | 19.84 | 0.46 | 6.79 | 88.45 | 111.80 |
| 1246 | 91.37 | 18.72 | 0.44 | 6.79 | 89.92 | 111.48 |
| 1247 | 91.47 | 18.93 | 0.42 | 6.88 | 90.14 | 111.12 |
| 1248 | 91.61 | 19.03 | 0.40 | 6.88 | 88.70 | 110.98 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1249 | 91.71 | 19.53 | 0.41 | 6.88 | 88.08 | 110.93 |
| 1250 | 91.81 | 19.33 | 0.41 | 6.88 | 87.81 | 110.97 |
| 1251 | 91.87 | 19.33 | 0.41 | 6.98 | 88.02 | 110.84 |
| 1252 | 92.00 | 19.13 | 0.39 | 6.98 | 86.12 | 110.10 |
| 1253 | 92.10 | 19.38 | 0.29 | 6.98 | 84.52 | 109.49 |
| 1254 | 92.20 | 19.43 | 0.32 | 7.07 | 83.14 | 109.22 |
| 1255 | 92.33 | 19.74 | 0.35 | 7.07 | 83.97 | 109.76 |
| 1256 | 92.38 | 19.79 | 0.37 | 7.07 | 84.45 | 110.16 |
| 1257 | 92.43 | 19.84 | 0.37 | 7.26 | 84.47 | 110.37 |
| 1258 | 92.48 | 20.14 | 0.38 | 7.26 | 85.19 | 110.58 |
| 1259 | 92.56 | 19.64 | 0.40 | 7.36 | 86.02 | 110.74 |
| 1260 | 92.63 | 19.53 | 0.40 | 7.36 | 87.16 | 110.82 |
| 1261 | 92.67 | 19.43 | 0.40 | 7.36 | 87.45 | 110.81 |
| 1262 | 92.72 | 19.43 | 0.40 | 7.36 | 87.55 | 110.79 |
| 1263 | 92.77 | 19.43 | 0.40 | 7.36 | 87.20 | 110.81 |
| 1264 | 92.86 | 19.74 | 0.40 | 7.46 | 86.63 | 110.88 |
| 1265 | 92.92 | 20.04 | 0.41 | 7.46 | 86.16 | 111.05 |
| 1266 | 92.97 | 20.14 | 0.42 | 7.55 | 86.69 | 111.44 |
| 1267 | 93.05 | 20.14 | 0.46 | 7.55 | 87.17 | 111.82 |
| 1268 | 93.10 | 20.45 | 0.47 | 7.55 | 87.05 | 112.15 |
| 1269 | 93.16 | 20.95 | 0.48 | 7.55 | 85.70 | 112.28 |
| 1270 | 93.25 | 21.56 | 0.48 | 7.65 | 83.79 | 112.35 |
| 1271 | 93.35 | 22.27 | 0.47 | 7.65 | 80.44 | 112.40 |
| 1272 | 93.40 | 24.19 | 0.47 | 7.65 | 78.94 | 112.28 |
| 1273 | 93.49 | 22.77 | 0.45 | 7.74 | 78.47 | 112.15 |
| 1274 | 93.56 | 22.47 | 0.45 | 7.74 | 79.73 | 111.99 |
| 1275 | 93.64 | 22.57 | 0.45 | 7.74 | 79.38 | 112.05 |
| 1276 | 93.73 | 23.28 | 0.46 | 7.74 | 78.34 | 112.52 |
| 1277 | 93.83 | 24.70 | 0.52 | 7.84 | 76.63 | 113.28 |
| 1278 | 93.88 | 26.42 | 0.57 | 8.03 | 75.40 | 114.39 |
| 1279 | 93.97 | 27.83 | 0.67 | 8.03 | 75.84 | 115.13 |
| 1280 | 94.07 | 26.42 | 0.70 | 8.03 | 78.80 | 115.71 |
| 1281 | 94.17 | 24.70 | 0.75 | 8.03 | 82.08 | 116.26 |
| 1282 | 94.26 | 25.81 | 0.86 | 8.03 | 80.59 | 116.63 |
| 1283 | 94.36 | 29.25 | 0.79 | 8.03 | 81.16 | 117.93 |
| 1284 | 94.45 | 28.24 | 1.17 | 8.03 | 80.92 | 119.20 |
| 1285 | 94.55 | 30.57 | 1.33 | 8.12 | 72.58 | 120.82 |
| 1286 | 94.64 | 48.48 | 1.34 | 8.12 | 58.20 | 121.86 |
| 1287 | 94.72 | 65.99 | 1.33 | 8.03 | 49.16 | 122.39 |
| 1288 | 94.74 | 64.98 | 1.34 | 8.03 | 41.37 | 122.92 |
| 1289 | 94.77 | 90.28 | 1.36 | 8.31 | 37.18 | 123.45 |
| 1290 | 94.85 | 97.87 | 1.44 | 8.31 | 33.27 | 124.10 |
| 1291 | 94.90 | 103.54 | 1.52 | 8.31 | 32.34 | 124.67 |
| 1292 | 94.95 | 106.48 | 1.62 | 8.31 | 32.54 | 125.32 |
| 1293 | 95.01 | 105.57 | 1.83 | 8.31 | 34.52 | 126.41 |
| 1294 | 95.09 | 101.62 | 2.33 | 8.31 | 37.59 | 127.40 |
| 1295 | 95.14 | 94.94 | 2.54 | 8.31 | 42.18 | 128.49 |
| 1296 | 95.23 | 86.54 | 3.07 | 8.31 | 47.11 | 129.05 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1297 | 95.29 | 77.43 | 3.22 | 8.31 | 52.64 | 129.44 |
| 1298 | 95.38 | 69.84 | 3.34 | 8.31 | 57.15 | 129.42 |
| 1299 | 95.43 | 65.69 | 3.35 | 8.31 | 59.57 | 129.33 |
| 1300 | 95.52 | 66.70 | 3.28 | 8.31 | 59.18 | 129.26 |
| 1301 | 95.57 | 70.75 | 3.23 | 8.31 | 56.95 | 129.08 |
| 1302 | 95.67 | 72.87 | 2.99 | 8.31 | 55.03 | 128.58 |
| 1303 | 95.77 | 69.74 | 2.61 | 8.22 | 56.22 | 127.67 |
| 1304 | 95.86 | 56.58 | 2.39 | 8.22 | 62.27 | 126.89 |
| 1305 | 95.95 | 44.23 | 2.56 | 8.22 | 64.67 | 126.27 |
| 1306 | 96.03 | 57.64 | 2.16 | 8.22 | 71.02 | 125.95 |
| 1307 | 96.11 | 37.96 | 2.38 | 8.31 | 66.58 | 126.41 |
| 1308 | 96.20 | 58.70 | 2.78 | 8.51 | 62.59 | 127.77 |
| 1309 | 96.30 | 80.57 | 3.26 | 8.60 | 51.74 | 129.50 |
| 1310 | 96.39 | 100.81 | 3.60 | 8.60 | 44.40 | 130.84 |
| 1311 | 96.50 | 122.37 | 3.84 | 8.70 | 38.62 | 131.75 |
| 1312 | 96.59 | 145.34 | 3.92 | 8.60 | 32.42 | 131.58 |
| 1313 | 96.69 | 166.80 | 2.74 | 8.60 | 26.91 | 130.69 |
| 1314 | 96.78 | 182.08 | 2.25 | 8.60 | 22.17 | 129.05 |
| 1315 | 96.87 | 191.29 | 1.93 | 8.60 | 20.37 | 128.23 |
| 1316 | 96.98 | 184.11 | 1.94 | 8.60 | 20.02 | 127.84 |
| 1317 | 97.02 | 180.06 | 1.94 | 8.51 | 21.02 | 127.82 |
| 1318 | 97.06 | 168.82 | 2.00 | 8.70 | 21.61 | 128.14 |
| 1319 | 97.12 | 179.96 | 2.21 | 8.70 | 22.39 | 128.67 |
| 1320 | 97.16 | 177.63 | 2.41 | 8.70 | 23.05 | 129.34 |
| 1321 | 97.21 | 172.97 | 2.61 | 8.70 | 24.45 | 129.98 |
| 1322 | 97.27 | 170.04 | 2.93 | 8.60 | 25.91 | 130.63 |
| 1323 | 97.33 | 168.12 | 3.21 | 8.60 | 27.09 | 131.15 |
| 1324 | 97.40 | 166.09 | 3.29 | 8.60 | 27.88 | 131.39 |
| 1325 | 97.45 | 163.36 | 3.29 | 8.60 | 28.36 | 131.45 |
| 1326 | 97.50 | 161.94 | 3.32 | 8.60 | 29.21 | 131.67 |
| 1327 | 97.58 | 158.50 | 3.65 | 8.60 | 30.75 | 131.92 |
| 1328 | 97.65 | 146.66 | 3.76 | 8.51 | 32.97 | 132.07 |
| 1329 | 97.69 | 135.32 | 3.76 | 8.51 | 35.59 | 131.79 |
| 1330 | 97.74 | 120.95 | 3.57 | 8.51 | 38.21 | 131.25 |
| 1331 | 97.81 | 108.60 | 3.32 | 8.51 | 40.74 | 130.65 |
| 1332 | 97.88 | 101.62 | 3.24 | 8.51 | 42.61 | 130.19 |
| 1333 | 97.93 | 98.68 | 3.18 | 8.60 | 40.27 | 130.07 |
| 1334 | 98.03 | 125.30 | 2.99 | 8.79 | 31.75 | 130.21 |
| 1335 | 98.15 | 191.80 | 2.67 | 9.08 | 23.53 | 130.24 |
| 1336 | 98.21 | 230.36 | 2.44 | 9.08 | 17.43 | 129.79 |
| 1337 | 98.32 | 262.75 | 1.96 | 9.08 | 13.84 | 129.24 |
| 1338 | 98.42 | 299.09 | 1.85 | 9.08 | 10.93 | 128.66 |
| 1339 | 98.47 | 343.32 | 1.71 | 9.08 | 5.00 | 127.75 |
| 1340 | 98.57 | 405.97 | 1.08 | 9.18 | 5.00 | 126.30 |
| 1341 | 98.70 | 416.60 | 0.89 | 9.18 | 4.53 | 124.66 |
| 1342 | 98.78 | 412.55 | 0.91 | 9.27 | 4.67 | 124.49 |
| 1343 | 98.85 | 382.49 | 1.03 | 9.27 | 5.00 | 124.66 |
| 1344 | 98.86 | 321.86 | 1.03 | 9.08 | 5.00 | 124.72 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1345 | 98.92 | 308.60 | 1.04 | 9.08 | 5.00 | 124.62 |
| 1346 | 98.98 | 337.35 | 1.04 | 9.18 | 5.00 | 124.75 |
| 1347 | 99.03 | 309.11 | 1.10 | 9.08 | 5.00 | 125.36 |
| 1348 | 99.11 | 281.37 | 1.35 | 8.98 | 5.00 | 126.14 |
| 1349 | 99.18 | 254.05 | 1.55 | 8.98 | 12.62 | 127.01 |
| 1350 | 99.23 | 230.16 | 1.76 | 8.89 | 15.59 | 128.18 |
| 1351 | 99.32 | 209.41 | 2.34 | 8.79 | 19.03 | 129.37 |
| 1352 | 99.37 | 189.57 | 2.77 | 8.79 | 22.90 | 130.41 |
| 1353 | 99.45 | 168.82 | 3.08 | 8.79 | 26.41 | 130.81 |
| 1354 | 99.56 | 152.93 | 3.11 | 8.79 | 29.20 | 131.00 |
| 1355 | 99.64 | 149.59 | 3.27 | 8.79 | 31.66 | 131.22 |
| 1356 | 99.71 | 139.27 | 3.58 | 8.79 | 34.06 | 131.59 |
| 1357 | 99.75 | 130.87 | 3.81 | 8.89 | 36.97 | 131.47 |
| 1358 | 99.90 | 114.27 | 3.39 | 8.79 | 40.25 | 131.23 |
| 1359 | 99.95 | 103.44 | 3.58 | 8.70 | 45.52 | 131.15 |
| 1360 | 100.04 | 87.25 | 4.17 | 8.70 | 42.09 | 132.11 |
| 1361 | 100.14 | 157.89 | 4.41 | 8.98 | 32.87 | 133.35 |
| 1362 | 100.14 | 232.39 | 4.40 | 8.98 | 26.10 | 134.08 |
| 1363 | 100.15 | 224.29 | 4.36 | 9.08 | 23.29 | 134.83 |
| 1364 | 100.19 | 250.30 | 5.18 | 9.18 | 22.57 | 136.06 |
| 1365 | 100.21 | 301.41 | 6.43 | 9.27 | 21.06 | 137.28 |
| 1366 | 100.24 | 342.10 | 7.12 | 9.27 | 14.70 | 135.60 |
| 1367 | 100.28 | 411.74 | 0.00 | 9.46 | 8.11 | 131.27 |
| 1368 | 100.31 | 477.42 | 0.00 | 9.56 | N/A | 87.36 |
| 1369 | 100.33 | 523.38 | 0.00 | 9.56 | N/A | 87.36 |
| 1370 | 100.38 | 524.49 | 0.00 | 9.56 | N/A | 87.36 |
| 1371 | 100.39 | 525.60 | 0.00 | 9.56 | N/A | 87.36 |
| 1372 | 100.43 | 529.15 | 0.00 | 9.65 | N/A | 87.36 |
| 1373 | 100.48 | 540.18 | 0.00 | 9.65 | N/A | 87.36 |
| 1374 | 100.53 | 496.96 | 0.00 | 9.56 | N/A | 87.36 |
| 1375 | 100.57 | 490.58 | 0.00 | 9.65 | N/A | 87.36 |
| 1376 | 100.60 | 500.40 | 0.00 | 9.94 | N/A | 87.36 |

**Abbreviations**

| | |
|---|---|
| Depth: | Depth from free surface, at which CPT was performed (ft) |
| $q_c$: | Measured cone resistance (tsf) |
| $f_s$: | Sleeve friction resistance (tsf) |
| u: | Pore pressure (tsf) |
| Fines content: | Percentage of fines in soil (%) |
| Unit weight: | Bulk soil unit weight (pcf) |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data ::**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.04 | 0.00 | 0.00 | 0.00 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 2 | 0.10 | 0.00 | 0.00 | 0.00 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 3 | 0.11 | 0.00 | 0.00 | 0.00 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 4 | 0.16 | 0.01 | 0.00 | 0.01 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 5 | 0.19 | 0.01 | 0.00 | 0.01 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 6 | 0.24 | 0.01 | 0.00 | 0.01 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 7 | 0.31 | 0.01 | 0.00 | 0.01 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 8 | 0.38 | 0.02 | 0.00 | 0.02 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 9 | 0.43 | 0.02 | 0.00 | 0.02 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 10 | 0.49 | 0.02 | 0.00 | 0.02 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 11 | 0.58 | 0.03 | 0.00 | 0.03 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 12 | 0.63 | 0.03 | 0.00 | 0.03 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 13 | 0.67 | 0.03 | 0.00 | 0.03 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 14 | 0.72 | 0.03 | 0.00 | 0.03 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 15 | 0.72 | 0.03 | 0.00 | 0.03 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 16 | 0.84 | 0.04 | 0.00 | 0.04 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 17 | 0.96 | 0.05 | 0.00 | 0.05 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 18 | 1.06 | 0.05 | 0.00 | 0.05 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 19 | 1.24 | 0.06 | 0.00 | 0.06 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 20 | 1.30 | 0.07 | 0.00 | 0.07 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 21 | 1.48 | 0.08 | 0.00 | 0.08 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 22 | 1.59 | 0.08 | 0.00 | 0.08 | 1.00 | 0.273 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 23 | 1.69 | 0.09 | 0.00 | 0.09 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 24 | 1.69 | 0.09 | 0.00 | 0.09 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 25 | 1.74 | 0.09 | 0.00 | 0.09 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | Yes |
| 26 | 1.79 | 0.09 | 0.00 | 0.09 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 27 | 1.84 | 0.09 | 0.00 | 0.09 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 28 | 1.88 | 0.10 | 0.00 | 0.10 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 29 | 1.93 | 0.10 | 0.00 | 0.10 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 30 | 1.99 | 0.10 | 0.00 | 0.10 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 31 | 2.03 | 0.11 | 0.00 | 0.11 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 32 | 2.08 | 0.11 | 0.00 | 0.11 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 33 | 2.13 | 0.11 | 0.00 | 0.11 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 34 | 2.22 | 0.12 | 0.00 | 0.12 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 35 | 2.27 | 0.12 | 0.00 | 0.12 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 36 | 2.33 | 0.12 | 0.00 | 0.12 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 37 | 2.42 | 0.13 | 0.00 | 0.13 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 38 | 2.48 | 0.13 | 0.00 | 0.13 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 39 | 2.56 | 0.13 | 0.00 | 0.13 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 40 | 2.65 | 0.14 | 0.00 | 0.14 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 41 | 2.72 | 0.14 | 0.00 | 0.14 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 42 | 2.80 | 0.15 | 0.00 | 0.15 | 1.00 | 0.272 | 1.68 | 0.162 | 1.00 | 1.10 | 2.000 | No |
| 43 | 2.89 | 0.15 | 0.00 | 0.15 | 1.00 | 0.272 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 44 | 2.94 | 0.16 | 0.00 | 0.16 | 1.00 | 0.272 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 45 | 3.04 | 0.16 | 0.00 | 0.16 | 0.99 | 0.272 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 46 | 3.14 | 0.17 | 0.00 | 0.17 | 0.99 | 0.272 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 47 | 3.23 | 0.17 | 0.00 | 0.17 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 48 | 3.31 | 0.18 | 0.00 | 0.18 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 49 | 3.37 | 0.18 | 0.00 | 0.18 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 50 | 3.48 | 0.18 | 0.00 | 0.18 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 51 | 3.57 | 0.19 | 0.00 | 0.19 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 52 | 3.65 | 0.19 | 0.00 | 0.19 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 53 | 3.71 | 0.20 | 0.00 | 0.20 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 54 | 3.82 | 0.20 | 0.00 | 0.20 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 55 | 3.91 | 0.21 | 0.00 | 0.21 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 56 | 4.00 | 0.21 | 0.00 | 0.21 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 57 | 4.10 | 0.22 | 0.00 | 0.22 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 58 | 4.19 | 0.22 | 0.00 | 0.22 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 59 | 4.26 | 0.23 | 0.00 | 0.23 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 60 | 4.35 | 0.23 | 0.00 | 0.23 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 61 | 4.44 | 0.23 | 0.00 | 0.23 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 62 | 4.52 | 0.24 | 0.00 | 0.24 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 63 | 4.53 | 0.24 | 0.00 | 0.24 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 64 | 4.58 | 0.24 | 0.00 | 0.24 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 65 | 4.63 | 0.24 | 0.00 | 0.24 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 66 | 4.68 | 0.25 | 0.00 | 0.25 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 67 | 4.72 | 0.25 | 0.00 | 0.25 | 0.99 | 0.271 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 68 | 4.77 | 0.25 | 0.00 | 0.25 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 69 | 4.82 | 0.26 | 0.00 | 0.26 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 70 | 4.88 | 0.26 | 0.00 | 0.26 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 71 | 4.96 | 0.26 | 0.00 | 0.26 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 72 | 5.01 | 0.27 | 0.00 | 0.27 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 73 | 5.08 | 0.27 | 0.00 | 0.27 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 74 | 5.16 | 0.27 | 0.00 | 0.27 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 75 | 5.21 | 0.28 | 0.00 | 0.28 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 76 | 5.30 | 0.28 | 0.00 | 0.28 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 77 | 5.37 | 0.29 | 0.00 | 0.29 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 78 | 5.45 | 0.29 | 0.00 | 0.29 | 0.99 | 0.270 | 1.68 | 0.161 | 1.00 | 1.10 | 2.000 | No |
| 79 | 5.52 | 0.29 | 0.00 | 0.29 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 80 | 5.59 | 0.30 | 0.00 | 0.30 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 81 | 5.65 | 0.30 | 0.00 | 0.30 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 82 | 5.74 | 0.31 | 0.00 | 0.31 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 83 | 5.83 | 0.31 | 0.00 | 0.31 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 84 | 5.89 | 0.31 | 0.00 | 0.31 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 85 | 5.97 | 0.32 | 0.00 | 0.32 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 86 | 6.07 | 0.32 | 0.00 | 0.32 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 87 | 6.12 | 0.33 | 0.00 | 0.33 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 88 | 6.22 | 0.33 | 0.00 | 0.33 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 89 | 6.28 | 0.34 | 0.00 | 0.34 | 0.99 | 0.270 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 90 | 6.36 | 0.34 | 0.00 | 0.34 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 91 | 6.46 | 0.35 | 0.00 | 0.35 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 92 | 6.52 | 0.35 | 0.00 | 0.35 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 93 | 6.60 | 0.35 | 0.00 | 0.35 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 94 | 6.70 | 0.36 | 0.00 | 0.36 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 95 | 6.76 | 0.36 | 0.00 | 0.36 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | Yes |
| 96 | 6.84 | 0.37 | 0.00 | 0.37 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97 | 6.94 | 0.37 | 0.00 | 0.37 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | Yes |
| 98 | 7.03 | 0.38 | 0.00 | 0.38 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | Yes |
| 99 | 7.13 | 0.38 | 0.00 | 0.38 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | Yes |
| 100 | 7.19 | 0.38 | 0.00 | 0.38 | 0.99 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | Yes |
| 101 | 7.32 | 0.39 | 0.00 | 0.39 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 102 | 7.42 | 0.39 | 0.00 | 0.39 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 103 | 7.49 | 0.40 | 0.00 | 0.40 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 104 | 7.57 | 0.40 | 0.00 | 0.40 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 105 | 7.66 | 0.40 | 0.00 | 0.40 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 106 | 7.76 | 0.41 | 0.00 | 0.41 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 107 | 7.77 | 0.41 | 0.00 | 0.41 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 108 | 7.78 | 0.41 | 0.00 | 0.41 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 109 | 7.82 | 0.41 | 0.00 | 0.41 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 110 | 7.87 | 0.41 | 0.00 | 0.41 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 111 | 7.92 | 0.42 | 0.00 | 0.42 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 112 | 7.97 | 0.42 | 0.00 | 0.42 | 0.98 | 0.269 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 113 | 8.01 | 0.42 | 0.00 | 0.42 | 0.98 | 0.268 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 114 | 8.06 | 0.42 | 0.00 | 0.42 | 0.98 | 0.268 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 115 | 8.11 | 0.42 | 0.00 | 0.42 | 0.98 | 0.268 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 116 | 8.20 | 0.43 | 0.00 | 0.43 | 0.98 | 0.268 | 1.68 | 0.160 | 1.00 | 1.10 | 2.000 | No |
| 117 | 8.26 | 0.43 | 0.00 | 0.43 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 118 | 8.35 | 0.44 | 0.00 | 0.44 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 119 | 8.40 | 0.44 | 0.00 | 0.44 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 120 | 8.49 | 0.44 | 0.00 | 0.44 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 121 | 8.54 | 0.44 | 0.00 | 0.44 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 122 | 8.64 | 0.45 | 0.00 | 0.45 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 123 | 8.69 | 0.45 | 0.00 | 0.45 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 124 | 8.79 | 0.46 | 0.00 | 0.46 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 125 | 8.84 | 0.46 | 0.00 | 0.46 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 126 | 8.93 | 0.46 | 0.00 | 0.46 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 127 | 9.03 | 0.47 | 0.00 | 0.47 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 128 | 9.08 | 0.47 | 0.00 | 0.47 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 129 | 9.11 | 0.47 | 0.00 | 0.47 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 130 | 9.12 | 0.47 | 0.00 | 0.47 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 131 | 9.17 | 0.48 | 0.00 | 0.48 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 132 | 9.22 | 0.48 | 0.00 | 0.48 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 133 | 9.31 | 0.48 | 0.00 | 0.48 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 134 | 9.36 | 0.49 | 0.00 | 0.49 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 135 | 9.40 | 0.49 | 0.00 | 0.49 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 136 | 9.46 | 0.49 | 0.00 | 0.49 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 137 | 9.51 | 0.49 | 0.00 | 0.49 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 138 | 9.55 | 0.50 | 0.00 | 0.50 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 139 | 9.61 | 0.50 | 0.00 | 0.50 | 0.98 | 0.268 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 140 | 9.69 | 0.50 | 0.00 | 0.50 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 141 | 9.74 | 0.51 | 0.00 | 0.51 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 142 | 9.81 | 0.51 | 0.00 | 0.51 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 143 | 9.89 | 0.51 | 0.00 | 0.51 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 144 | 9.94 | 0.52 | 0.00 | 0.52 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 145 | 10.03 | 0.52 | 0.00 | 0.52 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 146 | 10.08 | 0.52 | 0.00 | 0.52 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 147 | 10.18 | 0.53 | 0.00 | 0.53 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 148 | 10.23 | 0.53 | 0.00 | 0.53 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 149 | 10.33 | 0.54 | 0.00 | 0.54 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 150 | 10.40 | 0.54 | 0.00 | 0.54 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 151 | 10.47 | 0.54 | 0.00 | 0.54 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 152 | 10.51 | 0.55 | 0.00 | 0.55 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 153 | 10.56 | 0.55 | 0.00 | 0.55 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 154 | 10.61 | 0.55 | 0.00 | 0.55 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 155 | 10.67 | 0.55 | 0.00 | 0.55 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 156 | 10.75 | 0.56 | 0.00 | 0.56 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 157 | 10.80 | 0.56 | 0.00 | 0.56 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 158 | 10.85 | 0.56 | 0.00 | 0.56 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 159 | 10.90 | 0.57 | 0.00 | 0.57 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 160 | 11.00 | 0.57 | 0.00 | 0.57 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 161 | 11.05 | 0.58 | 0.00 | 0.58 | 0.98 | 0.267 | 1.68 | 0.159 | 1.00 | 1.10 | 2.000 | No |
| 162 | 11.14 | 0.58 | 0.00 | 0.58 | 0.98 | 0.267 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 163 | 11.21 | 0.58 | 0.00 | 0.58 | 0.98 | 0.267 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 164 | 11.29 | 0.59 | 0.00 | 0.59 | 0.98 | 0.267 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 165 | 11.38 | 0.59 | 0.00 | 0.59 | 0.98 | 0.267 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 166 | 11.46 | 0.60 | 0.00 | 0.60 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 167 | 11.52 | 0.60 | 0.00 | 0.60 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 168 | 11.60 | 0.61 | 0.00 | 0.61 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 169 | 11.67 | 0.61 | 0.00 | 0.61 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 170 | 11.72 | 0.61 | 0.00 | 0.61 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 171 | 11.81 | 0.62 | 0.00 | 0.62 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 172 | 11.86 | 0.62 | 0.00 | 0.62 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 173 | 11.96 | 0.63 | 0.00 | 0.63 | 0.98 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 174 | 12.01 | 0.63 | 0.00 | 0.63 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 175 | 12.10 | 0.63 | 0.00 | 0.63 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 176 | 12.16 | 0.64 | 0.00 | 0.64 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 177 | 12.24 | 0.64 | 0.00 | 0.64 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 178 | 12.32 | 0.64 | 0.00 | 0.64 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 179 | 12.39 | 0.65 | 0.00 | 0.65 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 180 | 12.48 | 0.65 | 0.00 | 0.65 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 181 | 12.50 | 0.65 | 0.00 | 0.65 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 182 | 12.54 | 0.66 | 0.00 | 0.66 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 183 | 12.64 | 0.66 | 0.00 | 0.66 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 184 | 12.68 | 0.66 | 0.00 | 0.66 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 185 | 12.77 | 0.67 | 0.00 | 0.67 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 186 | 12.82 | 0.67 | 0.00 | 0.67 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 187 | 12.89 | 0.68 | 0.00 | 0.68 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 188 | 12.97 | 0.68 | 0.00 | 0.68 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 189 | 13.03 | 0.68 | 0.00 | 0.68 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 190 | 13.12 | 0.69 | 0.00 | 0.69 | 0.97 | 0.266 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 191 | 13.16 | 0.69 | 0.00 | 0.69 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 192 | 13.26 | 0.70 | 0.00 | 0.70 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 193 | 13.34 | 0.70 | 0.00 | 0.70 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 194 | 13.41 | 0.70 | 0.00 | 0.70 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 195 | 13.50 | 0.71 | 0.00 | 0.71 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 196 | 13.60 | 0.71 | 0.00 | 0.71 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 197 | 13.65 | 0.72 | 0.00 | 0.72 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 198 | 13.75 | 0.72 | 0.00 | 0.72 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 199 | 13.80 | 0.73 | 0.00 | 0.73 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 200 | 13.89 | 0.73 | 0.00 | 0.73 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 201 | 13.94 | 0.73 | 0.00 | 0.73 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 202 | 14.03 | 0.74 | 0.00 | 0.74 | 0.97 | 0.265 | 1.68 | 0.158 | 1.00 | 1.10 | 2.000 | No |
| 203 | 14.11 | 0.74 | 0.00 | 0.74 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 204 | 14.13 | 0.74 | 0.00 | 0.74 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 205 | 14.18 | 0.75 | 0.00 | 0.75 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 206 | 14.22 | 0.75 | 0.00 | 0.75 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 207 | 14.28 | 0.75 | 0.00 | 0.75 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 208 | 14.37 | 0.76 | 0.00 | 0.76 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 209 | 14.44 | 0.76 | 0.00 | 0.76 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 210 | 14.51 | 0.76 | 0.00 | 0.76 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 211 | 14.60 | 0.77 | 0.00 | 0.77 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 212 | 14.65 | 0.77 | 0.00 | 0.77 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 213 | 14.75 | 0.78 | 0.00 | 0.78 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 214 | 14.85 | 0.78 | 0.00 | 0.78 | 0.97 | 0.265 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 215 | 14.91 | 0.79 | 0.00 | 0.79 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 216 | 14.99 | 0.79 | 0.00 | 0.79 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 217 | 15.09 | 0.80 | 0.00 | 0.80 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 218 | 15.18 | 0.80 | 0.00 | 0.80 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 219 | 15.25 | 0.81 | 0.00 | 0.81 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 220 | 15.33 | 0.81 | 0.00 | 0.81 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 221 | 15.43 | 0.82 | 0.00 | 0.82 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 222 | 15.51 | 0.82 | 0.00 | 0.82 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 223 | 15.59 | 0.83 | 0.00 | 0.83 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 224 | 15.67 | 0.83 | 0.00 | 0.83 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 225 | 15.76 | 0.84 | 0.00 | 0.84 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 226 | 15.86 | 0.84 | 0.00 | 0.84 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 227 | 15.95 | 0.85 | 0.00 | 0.85 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 228 | 16.05 | 0.85 | 0.00 | 0.85 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 229 | 16.14 | 0.86 | 0.00 | 0.86 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 230 | 16.20 | 0.86 | 0.00 | 0.86 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 231 | 16.28 | 0.87 | 0.00 | 0.87 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 232 | 16.34 | 0.87 | 0.00 | 0.87 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 233 | 16.44 | 0.87 | 0.00 | 0.87 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 234 | 16.50 | 0.88 | 0.00 | 0.88 | 0.97 | 0.264 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 235 | 16.58 | 0.88 | 0.00 | 0.88 | 0.97 | 0.263 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | Yes |
| 236 | 16.73 | 0.89 | 0.00 | 0.89 | 0.96 | 0.263 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 237 | 16.82 | 0.89 | 0.00 | 0.89 | 0.96 | 0.263 | 1.68 | 0.157 | 1.00 | 1.10 | 2.000 | No |
| 238 | 16.92 | 0.90 | 0.00 | 0.90 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 239 | 17.01 | 0.90 | 0.00 | 0.90 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 240 | 17.11 | 0.91 | 0.00 | 0.91 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 241 | 17.12 | 0.91 | 0.00 | 0.91 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 242 | 17.14 | 0.91 | 0.00 | 0.91 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 243 | 17.19 | 0.91 | 0.00 | 0.91 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 244 | 17.28 | 0.92 | 0.00 | 0.92 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 245 | 17.33 | 0.92 | 0.00 | 0.92 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 246 | 17.43 | 0.92 | 0.00 | 0.92 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 247 | 17.47 | 0.93 | 0.00 | 0.93 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 248 | 17.57 | 0.93 | 0.00 | 0.93 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 249 | 17.65 | 0.94 | 0.00 | 0.94 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 250 | 17.72 | 0.94 | 0.00 | 0.94 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 251 | 17.81 | 0.94 | 0.00 | 0.94 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 252 | 17.86 | 0.95 | 0.00 | 0.95 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 253 | 17.95 | 0.95 | 0.00 | 0.95 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 254 | 18.05 | 0.96 | 0.00 | 0.96 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 255 | 18.10 | 0.96 | 0.00 | 0.96 | 0.96 | 0.263 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 256 | 18.20 | 0.97 | 0.00 | 0.97 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 257 | 18.30 | 0.97 | 0.00 | 0.97 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 258 | 18.39 | 0.98 | 0.00 | 0.98 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 259 | 18.48 | 0.98 | 0.00 | 0.98 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 260 | 18.58 | 0.99 | 0.00 | 0.99 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 261 | 18.66 | 0.99 | 0.00 | 0.99 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 262 | 18.74 | 1.00 | 0.00 | 1.00 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 263 | 18.87 | 1.00 | 0.00 | 1.00 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 264 | 18.97 | 1.01 | 0.00 | 1.01 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 265 | 19.06 | 1.01 | 0.00 | 1.01 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 266 | 19.16 | 1.02 | 0.00 | 1.02 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 267 | 19.25 | 1.02 | 0.00 | 1.02 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 268 | 19.27 | 1.02 | 0.00 | 1.02 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 269 | 19.30 | 1.02 | 0.00 | 1.02 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 270 | 19.34 | 1.03 | 0.00 | 1.03 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 271 | 19.39 | 1.03 | 0.00 | 1.03 | 0.96 | 0.262 | 1.68 | 0.156 | 1.00 | 1.10 | 2.000 | No |
| 272 | 19.49 | 1.04 | 0.00 | 1.04 | 0.96 | 0.262 | 1.68 | 0.155 | 1.00 | 1.10 | 2.000 | No |
| 273 | 19.55 | 1.04 | 0.00 | 1.04 | 0.96 | 0.262 | 1.68 | 0.155 | 1.00 | 1.10 | 2.000 | No |
| 274 | 19.63 | 1.04 | 0.00 | 1.04 | 0.96 | 0.261 | 1.68 | 0.155 | 1.00 | 1.10 | 2.000 | No |
| 275 | 19.68 | 1.05 | 0.00 | 1.05 | 0.96 | 0.261 | 1.68 | 0.155 | 1.00 | 1.10 | 2.000 | No |
| 276 | 19.74 | 1.05 | 0.00 | 1.05 | 0.96 | 0.261 | 1.68 | 0.155 | 1.00 | 1.10 | 2.000 | No |
| 277 | 19.83 | 1.05 | 0.00 | 1.05 | 0.96 | 0.261 | 1.68 | 0.155 | 1.00 | 1.10 | 2.000 | No |
| 278 | 19.87 | 1.06 | 0.00 | 1.06 | 0.96 | 0.261 | 1.68 | 0.155 | 1.00 | 1.10 | 2.000 | No |
| 279 | 19.94 | 1.06 | 0.00 | 1.06 | 0.96 | 0.261 | 1.68 | 0.155 | 1.00 | 1.10 | 2.000 | No |
| 280 | 20.02 | 1.06 | 0.00 | 1.06 | 0.96 | 0.261 | 1.68 | 0.155 | 1.00 | 1.10 | 2.000 | No |
| 281 | 20.07 | 1.07 | 0.00 | 1.07 | 0.96 | 0.261 | 1.68 | 0.155 | 1.00 | 1.10 | 2.000 | No |
| 282 | 20.17 | 1.07 | 0.00 | 1.07 | 0.96 | 0.261 | 1.68 | 0.155 | 1.00 | 1.10 | 2.000 | No |
| 283 | 20.21 | 1.07 | 0.00 | 1.07 | 0.96 | 0.261 | 1.68 | 0.155 | 1.00 | 1.10 | 2.000 | Yes |
| 284 | 20.28 | 1.08 | 0.00 | 1.08 | 0.96 | 0.261 | 1.68 | 0.155 | 1.00 | 1.10 | 2.000 | Yes |
| 285 | 20.36 | 1.08 | 0.00 | 1.08 | 0.96 | 0.261 | 1.68 | 0.155 | 1.00 | 1.10 | 2.000 | Yes |
| 286 | 20.41 | 1.09 | 0.00 | 1.09 | 0.96 | 0.261 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | Yes |
| 287 | 20.48 | 1.09 | 0.00 | 1.09 | 0.96 | 0.261 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | Yes |
| 288 | 20.55 | 1.09 | 0.00 | 1.09 | 0.96 | 0.261 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 289 | 20.60 | 1.10 | 0.00 | 1.10 | 0.96 | 0.261 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | Yes |
| 290 | 20.70 | 1.10 | 0.00 | 1.10 | 0.96 | 0.261 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | No |
| 291 | 20.74 | 1.11 | 0.00 | 1.11 | 0.95 | 0.261 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | No |
| 292 | 20.79 | 1.11 | 0.00 | 1.11 | 0.95 | 0.261 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | No |
| 293 | 20.89 | 1.11 | 0.00 | 1.11 | 0.95 | 0.261 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | No |
| 294 | 20.96 | 1.12 | 0.00 | 1.12 | 0.95 | 0.261 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | No |
| 295 | 21.04 | 1.12 | 0.00 | 1.12 | 0.95 | 0.260 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | No |
| 296 | 21.13 | 1.13 | 0.00 | 1.13 | 0.95 | 0.260 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | No |
| 297 | 21.22 | 1.13 | 0.00 | 1.13 | 0.95 | 0.260 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | No |
| 298 | 21.29 | 1.14 | 0.00 | 1.14 | 0.95 | 0.260 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | No |
| 299 | 21.35 | 1.14 | 0.00 | 1.14 | 0.95 | 0.260 | 1.68 | 0.155 | 0.99 | 1.10 | 2.000 | No |
| 300 | 21.37 | 1.14 | 0.00 | 1.14 | 0.95 | 0.260 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 301 | 21.42 | 1.14 | 0.00 | 1.14 | 0.95 | 0.260 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 302 | 21.47 | 1.15 | 0.00 | 1.15 | 0.95 | 0.260 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 303 | 21.48 | 1.15 | 0.00 | 1.15 | 0.95 | 0.260 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 304 | 21.52 | 1.15 | 0.00 | 1.15 | 0.95 | 0.260 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 305 | 21.57 | 1.15 | 0.00 | 1.15 | 0.95 | 0.260 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 306 | 21.62 | 1.16 | 0.00 | 1.16 | 0.95 | 0.260 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 307 | 21.66 | 1.16 | 0.00 | 1.16 | 0.95 | 0.260 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 308 | 21.71 | 1.16 | 0.00 | 1.16 | 0.95 | 0.260 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 309 | 21.76 | 1.17 | 0.00 | 1.17 | 0.95 | 0.260 | 1.68 | 0.155 | 0.98 | 1.10 | 2.000 | No |
| 310 | 21.81 | 1.17 | 0.00 | 1.17 | 0.95 | 0.260 | 1.68 | 0.154 | 0.98 | 1.10 | 2.000 | No |
| 311 | 21.85 | 1.17 | 0.00 | 1.17 | 0.95 | 0.260 | 1.68 | 0.154 | 0.98 | 1.10 | 2.000 | No |
| 312 | 21.91 | 1.17 | 0.00 | 1.17 | 0.95 | 0.260 | 1.68 | 0.154 | 0.98 | 1.10 | 2.000 | No |
| 313 | 21.95 | 1.18 | 0.00 | 1.18 | 0.95 | 0.260 | 1.68 | 0.154 | 0.98 | 1.10 | 2.000 | No |
| 314 | 22.00 | 1.18 | 0.00 | 1.18 | 0.95 | 0.260 | 1.68 | 0.154 | 0.98 | 1.10 | 2.000 | No |
| 315 | 22.05 | 1.18 | 0.00 | 1.18 | 0.95 | 0.260 | 1.68 | 0.154 | 0.98 | 1.10 | 2.000 | No |
| 316 | 22.10 | 1.19 | 0.00 | 1.19 | 0.95 | 0.260 | 1.68 | 0.154 | 0.98 | 1.10 | 2.000 | No |
| 317 | 22.15 | 1.19 | 0.00 | 1.19 | 0.95 | 0.260 | 1.68 | 0.154 | 0.98 | 1.10 | 2.000 | No |
| 318 | 22.19 | 1.19 | 0.00 | 1.19 | 0.95 | 0.260 | 1.68 | 0.154 | 0.98 | 1.10 | 2.000 | No |
| 319 | 22.24 | 1.19 | 0.00 | 1.19 | 0.95 | 0.260 | 1.68 | 0.154 | 0.98 | 1.10 | 2.000 | No |
| 320 | 22.29 | 1.20 | 0.00 | 1.20 | 0.95 | 0.260 | 1.68 | 0.154 | 0.98 | 1.10 | 2.000 | No |
| 321 | 22.34 | 1.20 | 0.00 | 1.20 | 0.95 | 0.259 | 1.68 | 0.154 | 0.98 | 1.10 | 2.000 | No |
| 322 | 22.39 | 1.20 | 0.00 | 1.20 | 0.95 | 0.259 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 323 | 22.43 | 1.21 | 0.00 | 1.21 | 0.95 | 0.259 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 324 | 22.48 | 1.21 | 0.00 | 1.21 | 0.95 | 0.259 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 325 | 22.55 | 1.21 | 0.00 | 1.21 | 0.95 | 0.259 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 326 | 22.62 | 1.22 | 0.00 | 1.22 | 0.95 | 0.259 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 327 | 22.63 | 1.22 | 0.00 | 1.22 | 0.95 | 0.259 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 328 | 22.72 | 1.22 | 0.00 | 1.22 | 0.95 | 0.259 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 329 | 22.77 | 1.23 | 0.00 | 1.23 | 0.95 | 0.259 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 330 | 22.83 | 1.23 | 0.00 | 1.23 | 0.95 | 0.259 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 331 | 22.91 | 1.24 | 0.00 | 1.24 | 0.95 | 0.259 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 332 | 22.96 | 1.24 | 0.00 | 1.24 | 0.95 | 0.259 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 333 | 23.02 | 1.24 | 0.00 | 1.24 | 0.95 | 0.259 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 334 | 23.10 | 1.25 | 0.00 | 1.25 | 0.95 | 0.259 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 335 | 23.16 | 1.25 | 0.00 | 1.25 | 0.95 | 0.259 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 336 | 23.20 | 1.25 | 0.00 | 1.25 | 0.95 | 0.259 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 337 | 23.26 | 1.26 | 0.00 | 1.26 | 0.95 | 0.259 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 338 | 23.35 | 1.26 | 0.00 | 1.26 | 0.95 | 0.259 | 1.68 | 0.154 | 0.97 | 1.10 | 2.000 | No |
| 339 | 23.39 | 1.27 | 0.00 | 1.27 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 340 | 23.48 | 1.27 | 0.00 | 1.27 | 0.95 | 0.259 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 341 | 23.54 | 1.27 | 0.00 | 1.27 | 0.95 | 0.258 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 342 | 23.63 | 1.28 | 0.00 | 1.28 | 0.95 | 0.258 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 343 | 23.69 | 1.28 | 0.00 | 1.28 | 0.95 | 0.258 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 344 | 23.78 | 1.29 | 0.00 | 1.29 | 0.95 | 0.258 | 1.68 | 0.154 | 0.96 | 1.10 | 2.000 | No |
| 345 | 23.87 | 1.29 | 0.00 | 1.29 | 0.95 | 0.258 | 1.68 | 0.153 | 0.96 | 1.10 | 2.000 | No |
| 346 | 23.88 | 1.29 | 0.00 | 1.29 | 0.95 | 0.258 | 1.68 | 0.153 | 0.96 | 1.10 | 2.000 | No |
| 347 | 23.93 | 1.30 | 0.00 | 1.30 | 0.95 | 0.258 | 1.68 | 0.153 | 0.96 | 1.10 | 2.000 | No |
| 348 | 24.02 | 1.30 | 0.00 | 1.30 | 0.95 | 0.258 | 1.68 | 0.153 | 0.96 | 1.10 | 2.000 | No |
| 349 | 24.04 | 1.30 | 0.00 | 1.30 | 0.95 | 0.258 | 1.68 | 0.153 | 0.96 | 1.10 | 2.000 | No |
| 350 | 24.05 | 1.30 | 0.00 | 1.30 | 0.95 | 0.258 | 1.68 | 0.153 | 0.96 | 1.10 | 2.000 | No |
| 351 | 24.15 | 1.31 | 0.00 | 1.31 | 0.94 | 0.258 | 1.68 | 0.153 | 0.96 | 1.10 | 2.000 | No |
| 352 | 24.20 | 1.31 | 0.00 | 1.31 | 0.94 | 0.258 | 1.68 | 0.153 | 0.96 | 1.10 | 2.000 | No |
| 353 | 24.30 | 1.32 | 0.00 | 1.32 | 0.94 | 0.258 | 1.68 | 0.153 | 0.96 | 1.10 | 2.000 | No |
| 354 | 24.40 | 1.32 | 0.00 | 1.32 | 0.94 | 0.258 | 1.68 | 0.153 | 0.96 | 1.10 | 2.000 | No |
| 355 | 24.46 | 1.33 | 0.00 | 1.33 | 0.94 | 0.258 | 1.68 | 0.153 | 0.96 | 1.10 | 2.000 | No |
| 356 | 24.54 | 1.33 | 0.00 | 1.33 | 0.94 | 0.258 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | No |
| 357 | 24.64 | 1.34 | 0.00 | 1.34 | 0.94 | 0.257 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | Yes |
| 358 | 24.73 | 1.34 | 0.00 | 1.34 | 0.94 | 0.257 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | Yes |
| 359 | 24.78 | 1.35 | 0.00 | 1.35 | 0.94 | 0.257 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | Yes |
| 360 | 24.88 | 1.35 | 0.00 | 1.35 | 0.94 | 0.257 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | Yes |
| 361 | 24.94 | 1.36 | 0.00 | 1.36 | 0.94 | 0.257 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | Yes |
| 362 | 25.02 | 1.36 | 0.00 | 1.36 | 0.94 | 0.257 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | Yes |
| 363 | 25.12 | 1.37 | 0.00 | 1.37 | 0.94 | 0.257 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | Yes |
| 364 | 25.17 | 1.37 | 0.00 | 1.37 | 0.94 | 0.257 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | Yes |
| 365 | 25.27 | 1.38 | 0.00 | 1.38 | 0.94 | 0.257 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | Yes |
| 366 | 25.36 | 1.38 | 0.00 | 1.38 | 0.94 | 0.257 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | No |
| 367 | 25.43 | 1.38 | 0.00 | 1.38 | 0.94 | 0.257 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | No |
| 368 | 25.50 | 1.39 | 0.00 | 1.39 | 0.94 | 0.257 | 1.68 | 0.153 | 0.95 | 1.10 | 2.000 | No |
| 369 | 25.60 | 1.39 | 0.00 | 1.39 | 0.94 | 0.257 | 1.68 | 0.152 | 0.95 | 1.10 | 2.000 | No |
| 370 | 25.64 | 1.40 | 0.00 | 1.40 | 0.94 | 0.256 | 1.68 | 0.152 | 0.95 | 1.10 | 2.000 | No |
| 371 | 25.67 | 1.40 | 0.00 | 1.40 | 0.94 | 0.256 | 1.68 | 0.152 | 0.95 | 1.10 | 2.000 | No |
| 372 | 25.71 | 1.40 | 0.00 | 1.40 | 0.94 | 0.256 | 1.68 | 0.152 | 0.95 | 1.10 | 2.000 | No |
| 373 | 25.79 | 1.40 | 0.00 | 1.40 | 0.94 | 0.256 | 1.68 | 0.152 | 0.95 | 1.10 | 2.000 | No |
| 374 | 25.93 | 1.41 | 0.00 | 1.41 | 0.94 | 0.256 | 1.68 | 0.152 | 0.94 | 1.10 | 2.000 | No |
| 375 | 26.03 | 1.42 | 0.00 | 1.42 | 0.94 | 0.256 | 1.68 | 0.152 | 0.94 | 1.10 | 2.000 | No |
| 376 | 26.13 | 1.42 | 0.00 | 1.42 | 0.94 | 0.256 | 1.68 | 0.152 | 0.94 | 1.10 | 2.000 | No |
| 377 | 26.24 | 1.43 | 0.00 | 1.43 | 0.94 | 0.256 | 1.68 | 0.152 | 0.94 | 1.10 | 2.000 | No |
| 378 | 26.37 | 1.43 | 0.00 | 1.43 | 0.94 | 0.256 | 1.68 | 0.152 | 0.94 | 1.10 | 2.000 | No |
| 379 | 26.47 | 1.44 | 0.00 | 1.44 | 0.94 | 0.256 | 1.68 | 0.152 | 0.94 | 1.10 | 2.000 | No |
| 380 | 26.60 | 1.45 | 0.00 | 1.45 | 0.94 | 0.255 | 1.68 | 0.152 | 0.94 | 1.10 | 2.000 | No |
| 381 | 26.71 | 1.45 | 0.00 | 1.45 | 0.94 | 0.255 | 1.68 | 0.152 | 0.94 | 1.10 | 2.000 | No |
| 382 | 26.85 | 1.46 | 0.00 | 1.46 | 0.93 | 0.255 | 1.68 | 0.152 | 0.94 | 1.10 | 2.000 | No |
| 383 | 26.95 | 1.46 | 0.00 | 1.46 | 0.93 | 0.255 | 1.68 | 0.152 | 0.94 | 1.10 | 2.000 | No |
| 384 | 27.04 | 1.47 | 0.00 | 1.47 | 0.93 | 0.255 | 1.68 | 0.152 | 0.94 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 385 | 27.09 | 1.47 | 0.00 | 1.47 | 0.93 | 0.255 | 1.68 | 0.152 | 0.94 | 1.10 | 2.000 | No |
| 386 | 27.19 | 1.48 | 0.00 | 1.48 | 0.93 | 0.255 | 1.68 | 0.151 | 0.94 | 1.10 | 2.000 | No |
| 387 | 27.23 | 1.48 | 0.00 | 1.48 | 0.93 | 0.255 | 1.68 | 0.151 | 0.94 | 1.10 | 2.000 | No |
| 388 | 27.33 | 1.48 | 0.00 | 1.48 | 0.93 | 0.255 | 1.68 | 0.151 | 0.93 | 1.10 | 2.000 | No |
| 389 | 27.40 | 1.49 | 0.00 | 1.49 | 0.93 | 0.255 | 1.68 | 0.151 | 0.93 | 1.10 | 2.000 | No |
| 390 | 27.47 | 1.49 | 0.00 | 1.49 | 0.93 | 0.255 | 1.68 | 0.151 | 0.93 | 1.10 | 2.000 | No |
| 391 | 27.57 | 1.50 | 0.00 | 1.50 | 0.93 | 0.254 | 1.68 | 0.151 | 0.93 | 1.10 | 2.000 | No |
| 392 | 27.66 | 1.50 | 0.00 | 1.50 | 0.93 | 0.254 | 1.68 | 0.151 | 0.93 | 1.10 | 2.000 | No |
| 393 | 27.77 | 1.51 | 0.00 | 1.51 | 0.93 | 0.254 | 1.68 | 0.151 | 0.93 | 1.10 | 2.000 | No |
| 394 | 27.86 | 1.51 | 0.00 | 1.51 | 0.93 | 0.254 | 1.68 | 0.151 | 0.93 | 1.10 | 2.000 | No |
| 395 | 27.96 | 1.52 | 0.00 | 1.52 | 0.93 | 0.254 | 1.68 | 0.151 | 0.93 | 1.10 | 2.000 | No |
| 396 | 28.06 | 1.52 | 0.00 | 1.52 | 0.93 | 0.254 | 1.68 | 0.151 | 0.93 | 1.10 | 2.000 | No |
| 397 | 28.15 | 1.53 | 0.00 | 1.53 | 0.93 | 0.254 | 1.68 | 0.151 | 0.93 | 1.10 | 2.000 | No |
| 398 | 28.25 | 1.54 | 0.00 | 1.54 | 0.93 | 0.254 | 1.68 | 0.151 | 0.93 | 1.10 | 2.000 | No |
| 399 | 28.34 | 1.54 | 0.00 | 1.54 | 0.93 | 0.253 | 1.68 | 0.151 | 0.93 | 1.10 | 2.000 | No |
| 400 | 28.44 | 1.55 | 0.00 | 1.55 | 0.93 | 0.253 | 1.68 | 0.151 | 0.93 | 1.10 | 2.000 | No |
| 401 | 28.54 | 1.55 | 0.00 | 1.55 | 0.93 | 0.253 | 1.68 | 0.151 | 0.93 | 1.10 | 2.000 | No |
| 402 | 28.62 | 1.56 | 0.00 | 1.56 | 0.93 | 0.253 | 1.68 | 0.150 | 0.93 | 1.10 | 2.000 | No |
| 403 | 28.71 | 1.56 | 0.00 | 1.56 | 0.93 | 0.253 | 1.68 | 0.150 | 0.93 | 1.10 | 2.000 | No |
| 404 | 28.77 | 1.56 | 0.00 | 1.56 | 0.93 | 0.253 | 1.68 | 0.150 | 0.92 | 1.10 | 2.000 | No |
| 405 | 28.86 | 1.57 | 0.00 | 1.57 | 0.93 | 0.253 | 1.68 | 0.150 | 0.92 | 1.10 | 2.000 | No |
| 406 | 28.91 | 1.57 | 0.00 | 1.57 | 0.93 | 0.253 | 1.68 | 0.150 | 0.92 | 1.10 | 2.000 | No |
| 407 | 28.97 | 1.58 | 0.00 | 1.58 | 0.93 | 0.253 | 1.68 | 0.150 | 0.92 | 1.10 | 2.000 | No |
| 408 | 29.04 | 1.58 | 0.00 | 1.58 | 0.93 | 0.253 | 1.68 | 0.150 | 0.92 | 1.10 | 2.000 | No |
| 409 | 29.10 | 1.58 | 0.00 | 1.58 | 0.92 | 0.253 | 1.68 | 0.150 | 0.92 | 1.10 | 2.000 | No |
| 410 | 29.15 | 1.59 | 0.00 | 1.59 | 0.92 | 0.252 | 1.68 | 0.150 | 0.92 | 1.10 | 2.000 | No |
| 411 | 29.25 | 1.59 | 0.00 | 1.59 | 0.92 | 0.252 | 1.68 | 0.150 | 0.92 | 1.10 | 2.000 | No |
| 412 | 29.34 | 1.60 | 0.00 | 1.60 | 0.92 | 0.252 | 1.68 | 0.150 | 0.92 | 1.10 | 2.000 | No |
| 413 | 29.38 | 1.60 | 0.00 | 1.60 | 0.92 | 0.252 | 1.68 | 0.150 | 0.92 | 1.10 | 2.000 | No |
| 414 | 29.48 | 1.61 | 0.00 | 1.61 | 0.92 | 0.252 | 1.68 | 0.150 | 0.92 | 1.10 | 2.000 | No |
| 415 | 29.55 | 1.61 | 0.00 | 1.61 | 0.92 | 0.252 | 1.68 | 0.150 | 0.92 | 1.10 | 2.000 | Yes |
| 416 | 29.63 | 1.62 | 0.00 | 1.62 | 0.92 | 0.252 | 1.68 | 0.150 | 0.92 | 1.10 | 2.000 | Yes |
| 417 | 29.72 | 1.62 | 0.00 | 1.62 | 0.92 | 0.252 | 1.68 | 0.150 | 0.92 | 1.10 | 2.000 | Yes |
| 418 | 29.82 | 1.63 | 0.00 | 1.63 | 0.92 | 0.252 | 1.68 | 0.150 | 0.92 | 1.10 | 2.000 | Yes |
| 419 | 29.88 | 1.63 | 0.00 | 1.63 | 0.92 | 0.251 | 1.68 | 0.149 | 0.92 | 1.10 | 2.000 | Yes |
| 420 | 29.96 | 1.63 | 0.00 | 1.63 | 0.92 | 0.251 | 1.68 | 0.149 | 0.92 | 1.10 | 2.000 | Yes |
| 421 | 30.06 | 1.64 | 0.00 | 1.64 | 0.92 | 0.252 | 1.68 | 0.150 | 0.92 | 1.10 | 2.000 | Yes |
| 422 | 30.13 | 1.64 | 0.00 | 1.64 | 0.92 | 0.252 | 1.68 | 0.150 | 0.92 | 1.10 | 2.000 | Yes |
| 423 | 30.18 | 1.65 | 0.01 | 1.64 | 0.92 | 0.252 | 1.68 | 0.150 | 0.92 | 1.10 | 0.180 | No |
| 424 | 30.28 | 1.65 | 0.01 | 1.64 | 0.92 | 0.252 | 1.68 | 0.150 | 0.92 | 1.10 | 0.180 | No |
| 425 | 30.37 | 1.66 | 0.01 | 1.65 | 0.92 | 0.253 | 1.68 | 0.150 | 0.92 | 1.10 | 0.180 | No |
| 426 | 30.47 | 1.66 | 0.01 | 1.65 | 0.92 | 0.253 | 1.68 | 0.150 | 0.92 | 1.10 | 0.181 | No |
| 427 | 30.57 | 1.67 | 0.02 | 1.65 | 0.92 | 0.253 | 1.68 | 0.151 | 0.91 | 1.10 | 0.181 | No |
| 428 | 30.66 | 1.68 | 0.02 | 1.65 | 0.92 | 0.254 | 1.68 | 0.151 | 0.91 | 1.10 | 0.181 | No |
| 429 | 30.74 | 1.68 | 0.02 | 1.66 | 0.92 | 0.254 | 1.68 | 0.151 | 0.91 | 1.10 | 0.181 | No |
| 430 | 30.82 | 1.68 | 0.03 | 1.66 | 0.92 | 0.254 | 1.68 | 0.151 | 0.91 | 1.10 | 0.182 | No |
| 431 | 30.90 | 1.69 | 0.03 | 1.66 | 0.92 | 0.254 | 1.68 | 0.151 | 0.91 | 1.10 | 0.182 | No |
| 432 | 31.01 | 1.70 | 0.03 | 1.66 | 0.92 | 0.255 | 1.68 | 0.151 | 0.91 | 1.10 | 0.182 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 433 | 31.10 | 1.70 | 0.03 | 1.67 | 0.91 | 0.255 | 1.68 | 0.151 | 0.91 | 1.10 | 0.183 | No |
| 434 | 31.19 | 1.71 | 0.04 | 1.67 | 0.91 | 0.255 | 1.68 | 0.152 | 0.91 | 1.10 | 0.183 | No |
| 435 | 31.28 | 1.71 | 0.04 | 1.67 | 0.91 | 0.255 | 1.68 | 0.152 | 0.91 | 1.10 | 0.183 | No |
| 436 | 31.35 | 1.72 | 0.04 | 1.67 | 0.91 | 0.256 | 1.68 | 0.152 | 0.91 | 1.10 | 0.183 | No |
| 437 | 31.43 | 1.72 | 0.04 | 1.68 | 0.91 | 0.256 | 1.68 | 0.152 | 0.91 | 1.10 | 0.183 | No |
| 438 | 31.53 | 1.73 | 0.05 | 1.68 | 0.91 | 0.256 | 1.68 | 0.152 | 0.91 | 1.10 | 0.184 | No |
| 439 | 31.60 | 1.73 | 0.05 | 1.68 | 0.91 | 0.256 | 1.68 | 0.152 | 0.91 | 1.10 | 0.184 | No |
| 440 | 31.67 | 1.74 | 0.05 | 1.68 | 0.91 | 0.257 | 1.68 | 0.153 | 0.91 | 1.10 | 0.184 | No |
| 441 | 31.77 | 1.74 | 0.06 | 1.69 | 0.91 | 0.257 | 1.68 | 0.153 | 0.91 | 1.10 | 0.184 | No |
| 442 | 31.84 | 1.75 | 0.06 | 1.69 | 0.91 | 0.257 | 1.68 | 0.153 | 0.91 | 1.10 | 0.185 | No |
| 443 | 31.91 | 1.75 | 0.06 | 1.69 | 0.91 | 0.257 | 1.68 | 0.153 | 0.91 | 1.10 | 0.185 | No |
| 444 | 31.98 | 1.76 | 0.06 | 1.69 | 0.91 | 0.257 | 1.68 | 0.153 | 0.91 | 1.10 | 0.185 | No |
| 445 | 31.98 | 1.76 | 0.06 | 1.69 | 0.91 | 0.257 | 1.68 | 0.153 | 0.91 | 1.10 | 0.185 | No |
| 446 | 32.04 | 1.76 | 0.06 | 1.70 | 0.91 | 0.258 | 1.68 | 0.153 | 0.91 | 1.10 | 0.185 | No |
| 447 | 32.12 | 1.76 | 0.07 | 1.70 | 0.91 | 0.258 | 1.68 | 0.153 | 0.91 | 1.10 | 2.000 | Yes |
| 448 | 32.16 | 1.77 | 0.07 | 1.70 | 0.91 | 0.258 | 1.68 | 0.153 | 0.91 | 1.10 | 2.000 | Yes |
| 449 | 32.27 | 1.77 | 0.07 | 1.70 | 0.91 | 0.258 | 1.68 | 0.153 | 0.91 | 1.10 | 2.000 | Yes |
| 450 | 32.33 | 1.78 | 0.07 | 1.70 | 0.91 | 0.258 | 1.68 | 0.154 | 0.91 | 1.10 | 2.000 | Yes |
| 451 | 32.41 | 1.78 | 0.08 | 1.71 | 0.91 | 0.259 | 1.68 | 0.154 | 0.91 | 1.10 | 2.000 | Yes |
| 452 | 32.50 | 1.79 | 0.08 | 1.71 | 0.91 | 0.259 | 1.68 | 0.154 | 0.91 | 1.10 | 2.000 | Yes |
| 453 | 32.58 | 1.79 | 0.08 | 1.71 | 0.91 | 0.259 | 1.68 | 0.154 | 0.91 | 1.10 | 2.000 | Yes |
| 454 | 32.66 | 1.80 | 0.08 | 1.71 | 0.91 | 0.259 | 1.68 | 0.154 | 0.91 | 1.10 | 2.000 | Yes |
| 455 | 32.74 | 1.80 | 0.09 | 1.72 | 0.91 | 0.259 | 1.68 | 0.154 | 0.91 | 1.10 | 2.000 | Yes |
| 456 | 32.84 | 1.81 | 0.09 | 1.72 | 0.90 | 0.260 | 1.68 | 0.154 | 0.91 | 1.10 | 2.000 | Yes |
| 457 | 32.90 | 1.81 | 0.09 | 1.72 | 0.90 | 0.260 | 1.68 | 0.154 | 0.91 | 1.10 | 2.000 | Yes |
| 458 | 32.98 | 1.82 | 0.09 | 1.72 | 0.90 | 0.260 | 1.68 | 0.155 | 0.91 | 1.10 | 2.000 | Yes |
| 459 | 33.08 | 1.82 | 0.10 | 1.73 | 0.90 | 0.260 | 1.68 | 0.155 | 0.91 | 1.10 | 0.188 | No |
| 460 | 33.14 | 1.83 | 0.10 | 1.73 | 0.90 | 0.260 | 1.68 | 0.155 | 0.91 | 1.10 | 0.188 | No |
| 461 | 33.22 | 1.83 | 0.10 | 1.73 | 0.90 | 0.261 | 1.68 | 0.155 | 0.91 | 1.10 | 0.188 | No |
| 462 | 33.32 | 1.84 | 0.10 | 1.73 | 0.90 | 0.261 | 1.68 | 0.155 | 0.91 | 1.10 | 0.188 | No |
| 463 | 33.37 | 1.84 | 0.11 | 1.73 | 0.90 | 0.261 | 1.68 | 0.155 | 0.91 | 1.10 | 0.188 | No |
| 464 | 33.47 | 1.84 | 0.11 | 1.74 | 0.90 | 0.261 | 1.68 | 0.155 | 0.91 | 1.10 | 0.189 | No |
| 465 | 33.56 | 1.85 | 0.11 | 1.74 | 0.90 | 0.261 | 1.68 | 0.155 | 0.91 | 1.10 | 0.189 | No |
| 466 | 33.63 | 1.85 | 0.11 | 1.74 | 0.90 | 0.262 | 1.68 | 0.156 | 0.91 | 1.10 | 0.189 | No |
| 467 | 33.71 | 1.86 | 0.12 | 1.74 | 0.90 | 0.262 | 1.68 | 0.156 | 0.91 | 1.10 | 0.189 | No |
| 468 | 33.81 | 1.86 | 0.12 | 1.74 | 0.90 | 0.262 | 1.68 | 0.156 | 0.90 | 1.10 | 0.189 | No |
| 469 | 33.90 | 1.87 | 0.12 | 1.75 | 0.90 | 0.262 | 1.68 | 0.156 | 0.90 | 1.10 | 0.190 | No |
| 470 | 33.95 | 1.87 | 0.12 | 1.75 | 0.90 | 0.262 | 1.68 | 0.156 | 0.90 | 1.10 | 0.190 | No |
| 471 | 34.04 | 1.88 | 0.13 | 1.75 | 0.90 | 0.263 | 1.68 | 0.156 | 0.90 | 1.10 | 0.190 | No |
| 472 | 34.14 | 1.88 | 0.13 | 1.75 | 0.90 | 0.263 | 1.68 | 0.156 | 0.90 | 1.10 | 0.190 | No |
| 473 | 34.17 | 1.88 | 0.13 | 1.75 | 0.90 | 0.263 | 1.68 | 0.156 | 0.90 | 1.10 | 0.190 | No |
| 474 | 34.20 | 1.88 | 0.13 | 1.75 | 0.90 | 0.263 | 1.68 | 0.156 | 0.90 | 1.10 | 0.190 | No |
| 475 | 34.26 | 1.89 | 0.13 | 1.75 | 0.90 | 0.263 | 1.68 | 0.156 | 0.90 | 1.10 | 0.190 | No |
| 476 | 34.35 | 1.89 | 0.14 | 1.76 | 0.90 | 0.263 | 1.68 | 0.156 | 0.90 | 1.10 | 0.190 | No |
| 477 | 34.43 | 1.90 | 0.14 | 1.76 | 0.89 | 0.263 | 1.68 | 0.157 | 0.90 | 1.10 | 0.191 | No |
| 478 | 34.49 | 1.90 | 0.14 | 1.76 | 0.89 | 0.264 | 1.68 | 0.157 | 0.90 | 1.10 | 0.191 | No |
| 479 | 34.59 | 1.90 | 0.14 | 1.76 | 0.89 | 0.264 | 1.68 | 0.157 | 0.90 | 1.10 | 0.191 | No |
| 480 | 34.69 | 1.91 | 0.15 | 1.76 | 0.89 | 0.264 | 1.68 | 0.157 | 0.90 | 1.10 | 0.191 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 481 | 34.73 | 1.91 | 0.15 | 1.76 | 0.89 | 0.264 | 1.68 | 0.157 | 0.90 | 1.10 | 0.191 | No |
| 482 | 34.83 | 1.92 | 0.15 | 1.76 | 0.89 | 0.264 | 1.68 | 0.157 | 0.90 | 1.10 | 0.191 | No |
| 483 | 34.90 | 1.92 | 0.15 | 1.77 | 0.89 | 0.264 | 1.68 | 0.157 | 0.90 | 1.10 | 0.192 | No |
| 484 | 34.98 | 1.92 | 0.16 | 1.77 | 0.89 | 0.265 | 1.68 | 0.157 | 0.90 | 1.10 | 0.192 | No |
| 485 | 35.07 | 1.93 | 0.16 | 1.77 | 0.89 | 0.265 | 1.68 | 0.157 | 0.90 | 1.10 | 0.192 | No |
| 486 | 35.16 | 1.93 | 0.16 | 1.77 | 0.89 | 0.265 | 1.68 | 0.157 | 0.90 | 1.10 | 0.192 | No |
| 487 | 35.26 | 1.94 | 0.16 | 1.77 | 0.89 | 0.265 | 1.68 | 0.158 | 0.90 | 1.10 | 0.192 | No |
| 488 | 35.33 | 1.94 | 0.17 | 1.78 | 0.89 | 0.265 | 1.68 | 0.158 | 0.90 | 1.10 | 0.192 | No |
| 489 | 35.40 | 1.95 | 0.17 | 1.78 | 0.89 | 0.265 | 1.68 | 0.158 | 0.90 | 1.10 | 0.192 | No |
| 490 | 35.50 | 1.95 | 0.17 | 1.78 | 0.89 | 0.266 | 1.68 | 0.158 | 0.90 | 1.10 | 0.193 | No |
| 491 | 35.57 | 1.96 | 0.17 | 1.78 | 0.89 | 0.266 | 1.68 | 0.158 | 0.90 | 1.10 | 0.193 | No |
| 492 | 35.65 | 1.96 | 0.18 | 1.78 | 0.89 | 0.266 | 1.68 | 0.158 | 0.90 | 1.10 | 0.193 | No |
| 493 | 35.71 | 1.96 | 0.18 | 1.79 | 0.89 | 0.266 | 1.68 | 0.158 | 0.90 | 1.10 | 0.193 | No |
| 494 | 35.79 | 1.97 | 0.18 | 1.79 | 0.88 | 0.266 | 1.68 | 0.158 | 0.90 | 1.10 | 0.193 | No |
| 495 | 35.85 | 1.97 | 0.18 | 1.79 | 0.88 | 0.266 | 1.68 | 0.158 | 0.90 | 1.10 | 0.193 | No |
| 496 | 35.94 | 1.98 | 0.19 | 1.79 | 0.88 | 0.266 | 1.68 | 0.158 | 0.90 | 1.10 | 0.193 | No |
| 497 | 35.99 | 1.98 | 0.19 | 1.79 | 0.88 | 0.266 | 1.68 | 0.158 | 0.90 | 1.10 | 0.194 | No |
| 498 | 36.08 | 1.99 | 0.19 | 1.80 | 0.88 | 0.266 | 1.68 | 0.158 | 0.90 | 1.10 | 0.194 | No |
| 499 | 36.17 | 1.99 | 0.19 | 1.80 | 0.88 | 0.267 | 1.68 | 0.158 | 0.90 | 1.10 | 0.194 | No |
| 500 | 36.24 | 1.99 | 0.19 | 1.80 | 0.88 | 0.267 | 1.68 | 0.159 | 0.90 | 1.10 | 0.194 | No |
| 501 | 36.33 | 2.00 | 0.20 | 1.80 | 0.88 | 0.267 | 1.68 | 0.159 | 0.90 | 1.10 | 0.194 | No |
| 502 | 36.42 | 2.00 | 0.20 | 1.80 | 0.88 | 0.267 | 1.68 | 0.159 | 0.90 | 1.10 | 0.194 | No |
| 503 | 36.52 | 2.01 | 0.20 | 1.81 | 0.88 | 0.267 | 1.68 | 0.159 | 0.90 | 1.10 | 0.194 | No |
| 504 | 36.61 | 2.02 | 0.21 | 1.81 | 0.88 | 0.267 | 1.68 | 0.159 | 0.90 | 1.10 | 0.195 | No |
| 505 | 36.70 | 2.02 | 0.21 | 1.81 | 0.88 | 0.267 | 1.68 | 0.159 | 0.90 | 1.10 | 0.195 | No |
| 506 | 36.78 | 2.02 | 0.21 | 1.81 | 0.88 | 0.268 | 1.68 | 0.159 | 0.90 | 1.10 | 0.195 | No |
| 507 | 36.85 | 2.03 | 0.21 | 1.82 | 0.88 | 0.268 | 1.68 | 0.159 | 0.90 | 1.10 | 0.195 | No |
| 508 | 36.87 | 2.03 | 0.21 | 1.82 | 0.88 | 0.268 | 1.68 | 0.159 | 0.90 | 1.10 | 0.195 | No |
| 509 | 36.91 | 2.03 | 0.22 | 1.82 | 0.88 | 0.268 | 1.68 | 0.159 | 0.90 | 1.10 | 0.195 | No |
| 510 | 36.97 | 2.04 | 0.22 | 1.82 | 0.88 | 0.268 | 1.68 | 0.159 | 0.90 | 1.10 | 2.000 | Yes |
| 511 | 37.06 | 2.04 | 0.22 | 1.82 | 0.88 | 0.268 | 1.68 | 0.159 | 0.90 | 1.10 | 2.000 | Yes |
| 512 | 37.12 | 2.04 | 0.22 | 1.82 | 0.87 | 0.268 | 1.68 | 0.159 | 0.90 | 1.10 | 2.000 | Yes |
| 513 | 37.20 | 2.05 | 0.22 | 1.82 | 0.87 | 0.268 | 1.68 | 0.159 | 0.90 | 1.10 | 2.000 | Yes |
| 514 | 37.27 | 2.05 | 0.23 | 1.83 | 0.87 | 0.268 | 1.68 | 0.159 | 0.90 | 1.10 | 2.000 | Yes |
| 515 | 37.35 | 2.06 | 0.23 | 1.83 | 0.87 | 0.268 | 1.68 | 0.159 | 0.90 | 1.10 | 2.000 | Yes |
| 516 | 37.44 | 2.06 | 0.23 | 1.83 | 0.87 | 0.268 | 1.68 | 0.160 | 0.90 | 1.10 | 2.000 | Yes |
| 517 | 37.49 | 2.07 | 0.23 | 1.83 | 0.87 | 0.268 | 1.68 | 0.160 | 0.90 | 1.10 | 2.000 | Yes |
| 518 | 37.59 | 2.07 | 0.24 | 1.84 | 0.87 | 0.269 | 1.68 | 0.160 | 0.90 | 1.10 | 2.000 | Yes |
| 519 | 37.64 | 2.08 | 0.24 | 1.84 | 0.87 | 0.269 | 1.68 | 0.160 | 0.90 | 1.10 | 2.000 | Yes |
| 520 | 37.70 | 2.08 | 0.24 | 1.84 | 0.87 | 0.269 | 1.68 | 0.160 | 0.90 | 1.10 | 2.000 | Yes |
| 521 | 37.78 | 2.09 | 0.24 | 1.84 | 0.87 | 0.269 | 1.68 | 0.160 | 0.89 | 1.10 | 2.000 | Yes |
| 522 | 37.83 | 2.09 | 0.24 | 1.84 | 0.87 | 0.269 | 1.68 | 0.160 | 0.89 | 1.10 | 2.000 | Yes |
| 523 | 37.92 | 2.09 | 0.25 | 1.85 | 0.87 | 0.269 | 1.68 | 0.160 | 0.89 | 1.10 | 2.000 | Yes |
| 524 | 37.97 | 2.10 | 0.25 | 1.85 | 0.87 | 0.269 | 1.68 | 0.160 | 0.89 | 1.10 | 2.000 | Yes |
| 525 | 38.07 | 2.10 | 0.25 | 1.85 | 0.87 | 0.269 | 1.68 | 0.160 | 0.89 | 1.10 | 0.197 | No |
| 526 | 38.14 | 2.11 | 0.25 | 1.85 | 0.87 | 0.269 | 1.68 | 0.160 | 0.89 | 1.10 | 0.197 | No |
| 527 | 38.22 | 2.11 | 0.26 | 1.86 | 0.87 | 0.269 | 1.68 | 0.160 | 0.89 | 1.10 | 0.197 | No |
| 528 | 38.31 | 2.12 | 0.26 | 1.86 | 0.87 | 0.269 | 1.68 | 0.160 | 0.89 | 1.10 | 0.197 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 529 | 38.41 | 2.12 | 0.26 | 1.86 | 0.86 | 0.269 | 1.68 | 0.160 | 0.89 | 1.10 | 0.197 | No |
| 530 | 38.52 | 2.13 | 0.27 | 1.87 | 0.86 | 0.269 | 1.68 | 0.160 | 0.89 | 1.10 | 0.197 | No |
| 531 | 38.64 | 2.14 | 0.27 | 1.87 | 0.86 | 0.269 | 1.68 | 0.160 | 0.89 | 1.10 | 0.197 | No |
| 532 | 38.74 | 2.15 | 0.27 | 1.87 | 0.86 | 0.270 | 1.68 | 0.160 | 0.89 | 1.10 | 0.198 | No |
| 533 | 38.80 | 2.15 | 0.27 | 1.88 | 0.86 | 0.270 | 1.68 | 0.160 | 0.89 | 1.10 | 0.198 | No |
| 534 | 38.89 | 2.16 | 0.28 | 1.88 | 0.86 | 0.270 | 1.68 | 0.160 | 0.89 | 1.10 | 0.198 | No |
| 535 | 38.94 | 2.16 | 0.28 | 1.88 | 0.86 | 0.270 | 1.68 | 0.160 | 0.89 | 1.10 | 0.198 | No |
| 536 | 39.03 | 2.17 | 0.28 | 1.88 | 0.86 | 0.270 | 1.68 | 0.160 | 0.89 | 1.10 | 0.198 | No |
| 537 | 39.13 | 2.17 | 0.28 | 1.89 | 0.86 | 0.270 | 1.68 | 0.160 | 0.89 | 1.10 | 0.198 | No |
| 538 | 39.23 | 2.18 | 0.29 | 1.89 | 0.86 | 0.270 | 1.68 | 0.160 | 0.89 | 1.10 | 0.198 | No |
| 539 | 39.35 | 2.19 | 0.29 | 1.89 | 0.86 | 0.270 | 1.68 | 0.160 | 0.89 | 1.10 | 0.198 | No |
| 540 | 39.42 | 2.19 | 0.29 | 1.90 | 0.86 | 0.270 | 1.68 | 0.160 | 0.89 | 1.10 | 0.198 | No |
| 541 | 39.51 | 2.20 | 0.30 | 1.90 | 0.86 | 0.270 | 1.68 | 0.160 | 0.89 | 1.10 | 0.198 | No |
| 542 | 39.60 | 2.20 | 0.30 | 1.90 | 0.85 | 0.270 | 1.68 | 0.160 | 0.89 | 1.10 | 0.199 | No |
| 543 | 39.70 | 2.21 | 0.30 | 1.91 | 0.85 | 0.270 | 1.68 | 0.161 | 0.89 | 1.10 | 0.199 | No |
| 544 | 39.78 | 2.21 | 0.31 | 1.91 | 0.85 | 0.270 | 1.68 | 0.161 | 0.89 | 1.10 | 0.199 | No |
| 545 | 39.90 | 2.22 | 0.31 | 1.91 | 0.85 | 0.270 | 1.68 | 0.161 | 0.89 | 1.10 | 0.199 | No |
| 546 | 39.99 | 2.23 | 0.31 | 1.92 | 0.85 | 0.270 | 1.68 | 0.161 | 0.89 | 1.10 | 0.199 | No |
| 547 | 40.09 | 2.23 | 0.31 | 1.92 | 0.85 | 0.270 | 1.68 | 0.161 | 0.89 | 1.10 | 2.000 | Yes |
| 548 | 40.18 | 2.24 | 0.32 | 1.92 | 0.85 | 0.270 | 1.68 | 0.161 | 0.89 | 1.10 | 2.000 | Yes |
| 549 | 40.23 | 2.24 | 0.32 | 1.92 | 0.85 | 0.270 | 1.68 | 0.161 | 0.89 | 1.10 | 2.000 | Yes |
| 550 | 40.33 | 2.25 | 0.32 | 1.93 | 0.85 | 0.270 | 1.68 | 0.161 | 0.89 | 1.10 | 2.000 | Yes |
| 551 | 40.43 | 2.26 | 0.33 | 1.93 | 0.85 | 0.270 | 1.68 | 0.161 | 0.89 | 1.10 | 2.000 | Yes |
| 552 | 40.52 | 2.26 | 0.33 | 1.93 | 0.85 | 0.270 | 1.68 | 0.161 | 0.89 | 1.10 | 2.000 | Yes |
| 553 | 40.61 | 2.27 | 0.33 | 1.94 | 0.85 | 0.270 | 1.68 | 0.161 | 0.89 | 1.10 | 2.000 | Yes |
| 554 | 40.69 | 2.27 | 0.33 | 1.94 | 0.84 | 0.270 | 1.68 | 0.161 | 0.89 | 1.10 | 2.000 | Yes |
| 555 | 40.80 | 2.28 | 0.34 | 1.94 | 0.84 | 0.270 | 1.68 | 0.161 | 0.89 | 1.10 | 2.000 | Yes |
| 556 | 40.87 | 2.28 | 0.34 | 1.94 | 0.84 | 0.270 | 1.68 | 0.161 | 0.89 | 1.10 | 2.000 | Yes |
| 557 | 40.95 | 2.29 | 0.34 | 1.95 | 0.84 | 0.270 | 1.68 | 0.161 | 0.89 | 1.10 | 2.000 | Yes |
| 558 | 40.97 | 2.29 | 0.34 | 1.95 | 0.84 | 0.270 | 1.68 | 0.161 | 0.89 | 1.10 | 2.000 | Yes |
| 559 | 41.01 | 2.29 | 0.34 | 1.95 | 0.84 | 0.270 | 1.68 | 0.161 | 0.89 | 1.10 | 2.000 | Yes |
| 560 | 41.07 | 2.30 | 0.35 | 1.95 | 0.84 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 2.000 | Yes |
| 561 | 41.15 | 2.30 | 0.35 | 1.95 | 0.84 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 2.000 | Yes |
| 562 | 41.26 | 2.31 | 0.35 | 1.96 | 0.84 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 0.200 | No |
| 563 | 41.35 | 2.31 | 0.35 | 1.96 | 0.84 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 0.200 | No |
| 564 | 41.47 | 2.32 | 0.36 | 1.96 | 0.84 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 0.200 | No |
| 565 | 41.59 | 2.33 | 0.36 | 1.97 | 0.84 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 0.200 | No |
| 566 | 41.69 | 2.33 | 0.36 | 1.97 | 0.84 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 0.200 | No |
| 567 | 41.78 | 2.34 | 0.37 | 1.97 | 0.83 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 0.200 | No |
| 568 | 41.88 | 2.34 | 0.37 | 1.97 | 0.83 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 0.200 | No |
| 569 | 41.98 | 2.35 | 0.37 | 1.98 | 0.83 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 0.200 | No |
| 570 | 42.08 | 2.36 | 0.38 | 1.98 | 0.83 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 0.200 | No |
| 571 | 42.16 | 2.36 | 0.38 | 1.98 | 0.83 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 0.200 | No |
| 572 | 42.24 | 2.37 | 0.38 | 1.98 | 0.83 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 0.200 | No |
| 573 | 42.31 | 2.37 | 0.38 | 1.99 | 0.83 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 0.201 | No |
| 574 | 42.45 | 2.38 | 0.39 | 1.99 | 0.83 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 0.201 | No |
| 575 | 42.55 | 2.38 | 0.39 | 1.99 | 0.83 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 0.201 | No |
| 576 | 42.60 | 2.39 | 0.39 | 1.99 | 0.83 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 0.201 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 577 | 42.70 | 2.39 | 0.40 | 2.00 | 0.83 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 0.201 | No |
| 578 | 42.81 | 2.40 | 0.40 | 2.00 | 0.83 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 0.201 | No |
| 579 | 42.89 | 2.41 | 0.40 | 2.00 | 0.82 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 0.201 | No |
| 580 | 42.98 | 2.41 | 0.41 | 2.01 | 0.82 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 0.201 | No |
| 581 | 43.08 | 2.42 | 0.41 | 2.01 | 0.82 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 0.201 | No |
| 582 | 43.17 | 2.42 | 0.41 | 2.01 | 0.82 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 0.201 | No |
| 583 | 43.27 | 2.43 | 0.41 | 2.01 | 0.82 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 0.201 | No |
| 584 | 43.37 | 2.43 | 0.42 | 2.02 | 0.82 | 0.270 | 1.68 | 0.161 | 0.88 | 1.10 | 0.201 | No |
| 585 | 43.50 | 2.44 | 0.42 | 2.02 | 0.82 | 0.270 | 1.68 | 0.160 | 0.88 | 1.10 | 0.201 | No |
| 586 | 43.61 | 2.45 | 0.42 | 2.02 | 0.82 | 0.270 | 1.68 | 0.160 | 0.88 | 1.10 | 0.201 | No |
| 587 | 43.74 | 2.46 | 0.43 | 2.03 | 0.82 | 0.270 | 1.68 | 0.160 | 0.88 | 1.10 | 0.201 | No |
| 588 | 43.79 | 2.46 | 0.43 | 2.03 | 0.82 | 0.270 | 1.68 | 0.160 | 0.88 | 1.10 | 0.201 | No |
| 589 | 43.86 | 2.46 | 0.43 | 2.03 | 0.81 | 0.270 | 1.68 | 0.160 | 0.88 | 1.10 | 0.201 | No |
| 590 | 43.94 | 2.47 | 0.43 | 2.03 | 0.81 | 0.270 | 1.68 | 0.160 | 0.88 | 1.10 | 0.201 | No |
| 591 | 44.00 | 2.47 | 0.44 | 2.04 | 0.81 | 0.270 | 1.68 | 0.160 | 0.88 | 1.10 | 0.201 | No |
| 592 | 44.08 | 2.48 | 0.44 | 2.04 | 0.81 | 0.270 | 1.68 | 0.160 | 0.88 | 1.10 | 0.201 | No |
| 593 | 44.17 | 2.48 | 0.44 | 2.04 | 0.81 | 0.270 | 1.68 | 0.160 | 0.88 | 1.10 | 0.201 | No |
| 594 | 44.27 | 2.49 | 0.45 | 2.04 | 0.81 | 0.270 | 1.68 | 0.160 | 0.88 | 1.10 | 0.201 | No |
| 595 | 44.42 | 2.50 | 0.45 | 2.05 | 0.81 | 0.270 | 1.68 | 0.160 | 0.88 | 1.10 | 0.201 | No |
| 596 | 44.52 | 2.50 | 0.45 | 2.05 | 0.81 | 0.269 | 1.68 | 0.160 | 0.88 | 1.10 | 0.201 | No |
| 597 | 44.61 | 2.51 | 0.46 | 2.05 | 0.81 | 0.269 | 1.68 | 0.160 | 0.88 | 1.10 | 0.201 | No |
| 598 | 44.71 | 2.51 | 0.46 | 2.06 | 0.81 | 0.269 | 1.68 | 0.160 | 0.88 | 1.10 | 0.201 | No |
| 599 | 44.85 | 2.52 | 0.46 | 2.06 | 0.81 | 0.269 | 1.68 | 0.160 | 0.88 | 1.10 | 0.201 | No |
| 600 | 44.95 | 2.53 | 0.47 | 2.06 | 0.80 | 0.269 | 1.68 | 0.160 | 0.88 | 1.10 | 0.201 | No |
| 601 | 45.09 | 2.54 | 0.47 | 2.07 | 0.80 | 0.269 | 1.68 | 0.160 | 0.87 | 1.10 | 0.201 | No |
| 602 | 45.19 | 2.54 | 0.47 | 2.07 | 0.80 | 0.269 | 1.68 | 0.160 | 0.87 | 1.10 | 0.201 | No |
| 603 | 45.33 | 2.55 | 0.48 | 2.07 | 0.80 | 0.269 | 1.68 | 0.160 | 0.87 | 1.10 | 0.201 | No |
| 604 | 45.42 | 2.56 | 0.48 | 2.08 | 0.80 | 0.269 | 1.68 | 0.160 | 0.87 | 1.10 | 0.201 | No |
| 605 | 45.57 | 2.57 | 0.49 | 2.08 | 0.80 | 0.269 | 1.68 | 0.160 | 0.87 | 1.10 | 0.201 | No |
| 606 | 45.68 | 2.57 | 0.49 | 2.08 | 0.80 | 0.269 | 1.68 | 0.160 | 0.87 | 1.10 | 0.201 | No |
| 607 | 45.81 | 2.58 | 0.49 | 2.09 | 0.80 | 0.268 | 1.68 | 0.160 | 0.87 | 1.10 | 0.201 | No |
| 608 | 45.92 | 2.59 | 0.50 | 2.09 | 0.79 | 0.268 | 1.68 | 0.160 | 0.87 | 1.10 | 0.201 | No |
| 609 | 46.05 | 2.59 | 0.50 | 2.09 | 0.79 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 610 | 46.16 | 2.60 | 0.50 | 2.10 | 0.79 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 611 | 46.17 | 2.60 | 0.50 | 2.10 | 0.79 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 612 | 46.23 | 2.60 | 0.51 | 2.10 | 0.79 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 613 | 46.29 | 2.61 | 0.51 | 2.10 | 0.79 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 614 | 46.34 | 2.61 | 0.51 | 2.10 | 0.79 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 615 | 46.42 | 2.62 | 0.51 | 2.10 | 0.79 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 616 | 46.48 | 2.62 | 0.51 | 2.10 | 0.79 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 617 | 46.52 | 2.62 | 0.52 | 2.11 | 0.79 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 618 | 46.60 | 2.63 | 0.52 | 2.11 | 0.79 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 619 | 46.67 | 2.63 | 0.52 | 2.11 | 0.79 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 620 | 46.74 | 2.63 | 0.52 | 2.11 | 0.79 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 621 | 46.82 | 2.64 | 0.52 | 2.11 | 0.79 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 622 | 46.88 | 2.64 | 0.53 | 2.11 | 0.78 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 623 | 46.96 | 2.64 | 0.53 | 2.12 | 0.78 | 0.268 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 624 | 47.06 | 2.65 | 0.53 | 2.12 | 0.78 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 625 | 47.15 | 2.65 | 0.54 | 2.12 | 0.78 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 626 | 47.24 | 2.66 | 0.54 | 2.12 | 0.78 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 627 | 47.35 | 2.67 | 0.54 | 2.12 | 0.78 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 628 | 47.49 | 2.67 | 0.55 | 2.13 | 0.78 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 629 | 47.58 | 2.68 | 0.55 | 2.13 | 0.78 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 630 | 47.73 | 2.69 | 0.55 | 2.13 | 0.78 | 0.267 | 1.68 | 0.159 | 0.87 | 1.10 | 0.201 | No |
| 631 | 47.83 | 2.69 | 0.56 | 2.14 | 0.77 | 0.267 | 1.68 | 0.158 | 0.87 | 1.10 | 0.201 | No |
| 632 | 47.87 | 2.70 | 0.56 | 2.14 | 0.77 | 0.267 | 1.68 | 0.158 | 0.87 | 1.10 | 0.201 | No |
| 633 | 47.89 | 2.70 | 0.56 | 2.14 | 0.77 | 0.267 | 1.68 | 0.158 | 0.87 | 1.10 | 0.201 | No |
| 634 | 47.94 | 2.70 | 0.56 | 2.14 | 0.77 | 0.267 | 1.68 | 0.158 | 0.87 | 1.10 | 0.201 | No |
| 635 | 48.02 | 2.70 | 0.56 | 2.14 | 0.77 | 0.266 | 1.68 | 0.158 | 0.87 | 1.10 | 0.201 | No |
| 636 | 48.07 | 2.71 | 0.56 | 2.14 | 0.77 | 0.266 | 1.68 | 0.158 | 0.87 | 1.10 | 0.201 | No |
| 637 | 48.12 | 2.71 | 0.57 | 2.14 | 0.77 | 0.266 | 1.68 | 0.158 | 0.87 | 1.10 | 0.201 | No |
| 638 | 48.18 | 2.71 | 0.57 | 2.15 | 0.77 | 0.266 | 1.68 | 0.158 | 0.87 | 1.10 | 0.201 | No |
| 639 | 48.26 | 2.72 | 0.57 | 2.15 | 0.77 | 0.266 | 1.68 | 0.158 | 0.87 | 1.10 | 0.200 | No |
| 640 | 48.31 | 2.72 | 0.57 | 2.15 | 0.77 | 0.266 | 1.68 | 0.158 | 0.87 | 1.10 | 0.200 | No |
| 641 | 48.38 | 2.72 | 0.57 | 2.15 | 0.77 | 0.266 | 1.68 | 0.158 | 0.87 | 1.10 | 0.200 | No |
| 642 | 48.46 | 2.73 | 0.58 | 2.15 | 0.77 | 0.266 | 1.68 | 0.158 | 0.87 | 1.10 | 0.200 | No |
| 643 | 48.52 | 2.73 | 0.58 | 2.16 | 0.77 | 0.266 | 1.68 | 0.158 | 0.87 | 1.10 | 0.200 | No |
| 644 | 48.60 | 2.74 | 0.58 | 2.16 | 0.77 | 0.266 | 1.68 | 0.158 | 0.87 | 1.10 | 0.200 | No |
| 645 | 48.68 | 2.74 | 0.58 | 2.16 | 0.77 | 0.266 | 1.68 | 0.158 | 0.87 | 1.10 | 0.200 | No |
| 646 | 48.74 | 2.75 | 0.58 | 2.16 | 0.77 | 0.266 | 1.68 | 0.158 | 0.87 | 1.10 | 0.200 | No |
| 647 | 48.82 | 2.75 | 0.59 | 2.16 | 0.76 | 0.265 | 1.68 | 0.158 | 0.87 | 1.10 | 0.200 | No |
| 648 | 48.89 | 2.75 | 0.59 | 2.16 | 0.76 | 0.265 | 1.68 | 0.158 | 0.87 | 1.10 | 0.200 | No |
| 649 | 48.99 | 2.76 | 0.59 | 2.17 | 0.76 | 0.265 | 1.68 | 0.158 | 0.87 | 1.10 | 0.200 | No |
| 650 | 49.05 | 2.76 | 0.59 | 2.17 | 0.76 | 0.265 | 1.68 | 0.158 | 0.87 | 1.10 | 0.200 | No |
| 651 | 49.12 | 2.77 | 0.60 | 2.17 | 0.76 | 0.265 | 1.68 | 0.158 | 0.87 | 1.10 | 0.200 | No |
| 652 | 49.18 | 2.77 | 0.60 | 2.17 | 0.76 | 0.265 | 1.68 | 0.158 | 0.87 | 1.10 | 0.200 | No |
| 653 | 49.27 | 2.77 | 0.60 | 2.17 | 0.76 | 0.265 | 1.68 | 0.157 | 0.87 | 1.10 | 0.200 | No |
| 654 | 49.32 | 2.78 | 0.60 | 2.17 | 0.76 | 0.265 | 1.68 | 0.157 | 0.87 | 1.10 | 0.200 | No |
| 655 | 49.42 | 2.78 | 0.61 | 2.18 | 0.76 | 0.265 | 1.68 | 0.157 | 0.87 | 1.10 | 0.200 | No |
| 656 | 49.48 | 2.78 | 0.61 | 2.18 | 0.76 | 0.265 | 1.68 | 0.157 | 0.87 | 1.10 | 0.200 | No |
| 657 | 49.56 | 2.79 | 0.61 | 2.18 | 0.76 | 0.265 | 1.68 | 0.157 | 0.87 | 1.10 | 0.200 | No |
| 658 | 49.66 | 2.79 | 0.61 | 2.18 | 0.76 | 0.264 | 1.68 | 0.157 | 0.87 | 1.10 | 0.200 | No |
| 659 | 49.76 | 2.80 | 0.62 | 2.18 | 0.76 | 0.264 | 1.68 | 0.157 | 0.87 | 1.10 | 0.200 | No |
| 660 | 49.85 | 2.80 | 0.62 | 2.19 | 0.75 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 0.200 | No |
| 661 | 49.99 | 2.81 | 0.62 | 2.19 | 0.75 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 0.200 | No |
| 662 | 50.09 | 2.82 | 0.63 | 2.19 | 0.75 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 0.200 | No |
| 663 | 50.21 | 2.82 | 0.63 | 2.19 | 0.75 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 0.200 | No |
| 664 | 50.24 | 2.82 | 0.63 | 2.19 | 0.75 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 0.200 | No |
| 665 | 50.29 | 2.83 | 0.63 | 2.19 | 0.75 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 0.200 | No |
| 666 | 50.38 | 2.83 | 0.64 | 2.20 | 0.75 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 0.199 | No |
| 667 | 50.47 | 2.84 | 0.64 | 2.20 | 0.75 | 0.264 | 1.68 | 0.157 | 0.86 | 1.10 | 0.199 | No |
| 668 | 50.52 | 2.84 | 0.64 | 2.20 | 0.75 | 0.263 | 1.68 | 0.157 | 0.86 | 1.10 | 0.199 | No |
| 669 | 50.62 | 2.84 | 0.64 | 2.20 | 0.75 | 0.263 | 1.68 | 0.157 | 0.86 | 1.10 | 0.199 | No |
| 670 | 50.66 | 2.85 | 0.64 | 2.20 | 0.75 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.199 | No |
| 671 | 50.76 | 2.85 | 0.65 | 2.20 | 0.74 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.199 | No |
| 672 | 50.83 | 2.85 | 0.65 | 2.21 | 0.74 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.199 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 673 | 50.91 | 2.86 | 0.65 | 2.21 | 0.74 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.199 | No |
| 674 | 51.00 | 2.86 | 0.66 | 2.21 | 0.74 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.199 | No |
| 675 | 51.06 | 2.87 | 0.66 | 2.21 | 0.74 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.199 | No |
| 676 | 51.15 | 2.87 | 0.66 | 2.21 | 0.74 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.199 | No |
| 677 | 51.24 | 2.88 | 0.66 | 2.21 | 0.74 | 0.263 | 1.68 | 0.156 | 0.86 | 1.10 | 0.199 | No |
| 678 | 51.31 | 2.88 | 0.67 | 2.22 | 0.74 | 0.262 | 1.68 | 0.156 | 0.86 | 1.10 | 0.199 | No |
| 679 | 51.39 | 2.89 | 0.67 | 2.22 | 0.74 | 0.262 | 1.68 | 0.156 | 0.86 | 1.10 | 0.199 | No |
| 680 | 51.48 | 2.89 | 0.67 | 2.22 | 0.74 | 0.262 | 1.68 | 0.156 | 0.86 | 1.10 | 0.199 | No |
| 681 | 51.58 | 2.90 | 0.67 | 2.22 | 0.74 | 0.262 | 1.68 | 0.156 | 0.86 | 1.10 | 0.199 | No |
| 682 | 51.68 | 2.90 | 0.68 | 2.23 | 0.74 | 0.262 | 1.68 | 0.156 | 0.86 | 1.10 | 0.199 | No |
| 683 | 51.77 | 2.91 | 0.68 | 2.23 | 0.73 | 0.262 | 1.68 | 0.156 | 0.86 | 1.10 | 0.199 | No |
| 684 | 51.90 | 2.92 | 0.68 | 2.23 | 0.73 | 0.262 | 1.68 | 0.155 | 0.86 | 1.10 | 0.199 | No |
| 685 | 52.01 | 2.92 | 0.69 | 2.24 | 0.73 | 0.261 | 1.68 | 0.155 | 0.86 | 1.10 | 2.000 | Yes |
| 686 | 52.11 | 2.93 | 0.69 | 2.24 | 0.73 | 0.261 | 1.68 | 0.155 | 0.86 | 1.10 | 2.000 | Yes |
| 687 | 52.26 | 2.94 | 0.69 | 2.24 | 0.73 | 0.261 | 1.68 | 0.155 | 0.86 | 1.10 | 2.000 | Yes |
| 688 | 52.30 | 2.94 | 0.70 | 2.25 | 0.73 | 0.261 | 1.68 | 0.155 | 0.86 | 1.10 | 2.000 | Yes |
| 689 | 52.33 | 2.94 | 0.70 | 2.25 | 0.73 | 0.261 | 1.68 | 0.155 | 0.86 | 1.10 | 2.000 | Yes |
| 690 | 52.35 | 2.95 | 0.70 | 2.25 | 0.73 | 0.261 | 1.68 | 0.155 | 0.86 | 1.10 | 2.000 | Yes |
| 691 | 52.40 | 2.95 | 0.70 | 2.25 | 0.73 | 0.261 | 1.68 | 0.155 | 0.86 | 1.10 | 2.000 | Yes |
| 692 | 52.45 | 2.95 | 0.70 | 2.25 | 0.73 | 0.261 | 1.68 | 0.155 | 0.86 | 1.10 | 2.000 | Yes |
| 693 | 52.50 | 2.96 | 0.70 | 2.25 | 0.73 | 0.260 | 1.68 | 0.155 | 0.86 | 1.10 | 0.198 | No |
| 694 | 52.55 | 2.96 | 0.70 | 2.26 | 0.73 | 0.260 | 1.68 | 0.155 | 0.86 | 1.10 | 0.198 | No |
| 695 | 52.60 | 2.96 | 0.71 | 2.26 | 0.73 | 0.260 | 1.68 | 0.155 | 0.86 | 1.10 | 0.198 | No |
| 696 | 52.65 | 2.97 | 0.71 | 2.26 | 0.73 | 0.260 | 1.68 | 0.155 | 0.86 | 1.10 | 0.198 | No |
| 697 | 52.71 | 2.97 | 0.71 | 2.26 | 0.73 | 0.260 | 1.68 | 0.155 | 0.86 | 1.10 | 0.198 | No |
| 698 | 52.77 | 2.97 | 0.71 | 2.26 | 0.72 | 0.260 | 1.68 | 0.155 | 0.86 | 1.10 | 0.198 | No |
| 699 | 52.82 | 2.98 | 0.71 | 2.27 | 0.72 | 0.260 | 1.68 | 0.154 | 0.86 | 1.10 | 0.198 | No |
| 700 | 52.88 | 2.98 | 0.71 | 2.27 | 0.72 | 0.260 | 1.68 | 0.154 | 0.86 | 1.10 | 0.198 | No |
| 701 | 52.93 | 2.99 | 0.72 | 2.27 | 0.72 | 0.260 | 1.68 | 0.154 | 0.86 | 1.10 | 0.198 | No |
| 702 | 52.98 | 2.99 | 0.72 | 2.27 | 0.72 | 0.260 | 1.68 | 0.154 | 0.86 | 1.10 | 0.198 | No |
| 703 | 53.03 | 2.99 | 0.72 | 2.27 | 0.72 | 0.260 | 1.68 | 0.154 | 0.86 | 1.10 | 0.198 | No |
| 704 | 53.08 | 2.99 | 0.72 | 2.27 | 0.72 | 0.259 | 1.68 | 0.154 | 0.86 | 1.10 | 0.198 | No |
| 705 | 53.12 | 3.00 | 0.72 | 2.28 | 0.72 | 0.259 | 1.68 | 0.154 | 0.86 | 1.10 | 0.198 | No |
| 706 | 53.17 | 3.00 | 0.72 | 2.28 | 0.72 | 0.259 | 1.68 | 0.154 | 0.86 | 1.10 | 0.198 | No |
| 707 | 53.23 | 3.01 | 0.72 | 2.28 | 0.72 | 0.259 | 1.68 | 0.154 | 0.86 | 1.10 | 0.198 | No |
| 708 | 53.28 | 3.01 | 0.73 | 2.28 | 0.72 | 0.259 | 1.68 | 0.154 | 0.86 | 1.10 | 0.198 | No |
| 709 | 53.37 | 3.01 | 0.73 | 2.29 | 0.72 | 0.259 | 1.68 | 0.154 | 0.86 | 1.10 | 0.197 | No |
| 710 | 53.42 | 3.02 | 0.73 | 2.29 | 0.72 | 0.259 | 1.68 | 0.154 | 0.86 | 1.10 | 0.197 | No |
| 711 | 53.46 | 3.02 | 0.73 | 2.29 | 0.72 | 0.259 | 1.68 | 0.154 | 0.86 | 1.10 | 0.197 | No |
| 712 | 53.53 | 3.03 | 0.73 | 2.29 | 0.72 | 0.259 | 1.68 | 0.154 | 0.86 | 1.10 | 0.197 | No |
| 713 | 53.61 | 3.03 | 0.74 | 2.29 | 0.72 | 0.258 | 1.68 | 0.154 | 0.86 | 1.10 | 0.197 | No |
| 714 | 53.62 | 3.03 | 0.74 | 2.30 | 0.72 | 0.258 | 1.68 | 0.154 | 0.86 | 1.10 | 0.197 | No |
| 715 | 53.65 | 3.03 | 0.74 | 2.30 | 0.72 | 0.258 | 1.68 | 0.154 | 0.86 | 1.10 | 0.197 | No |
| 716 | 53.67 | 3.04 | 0.74 | 2.30 | 0.72 | 0.258 | 1.68 | 0.154 | 0.86 | 1.10 | 0.197 | No |
| 717 | 53.70 | 3.04 | 0.74 | 2.30 | 0.72 | 0.258 | 1.68 | 0.154 | 0.86 | 1.10 | 0.197 | No |
| 718 | 53.74 | 3.04 | 0.74 | 2.30 | 0.72 | 0.258 | 1.68 | 0.153 | 0.86 | 1.10 | 0.197 | No |
| 719 | 53.76 | 3.04 | 0.74 | 2.30 | 0.72 | 0.258 | 1.68 | 0.153 | 0.86 | 1.10 | 0.197 | No |
| 720 | 53.80 | 3.04 | 0.74 | 2.30 | 0.71 | 0.258 | 1.68 | 0.153 | 0.86 | 1.10 | 0.197 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 721 | 53.84 | 3.05 | 0.74 | 2.30 | 0.71 | 0.258 | 1.68 | 0.153 | 0.86 | 1.10 | 0.197 | No |
| 722 | 53.90 | 3.05 | 0.75 | 2.31 | 0.71 | 0.258 | 1.68 | 0.153 | 0.86 | 1.10 | 0.197 | No |
| 723 | 53.91 | 3.05 | 0.75 | 2.31 | 0.71 | 0.258 | 1.68 | 0.153 | 0.86 | 1.10 | 0.197 | No |
| 724 | 53.95 | 3.05 | 0.75 | 2.31 | 0.71 | 0.258 | 1.68 | 0.153 | 0.86 | 1.10 | 0.197 | No |
| 725 | 53.96 | 3.06 | 0.75 | 2.31 | 0.71 | 0.258 | 1.68 | 0.153 | 0.86 | 1.10 | 0.197 | No |
| 726 | 53.98 | 3.06 | 0.75 | 2.31 | 0.71 | 0.258 | 1.68 | 0.153 | 0.86 | 1.10 | 0.197 | No |
| 727 | 53.99 | 3.06 | 0.75 | 2.31 | 0.71 | 0.258 | 1.68 | 0.153 | 0.86 | 1.10 | 0.197 | No |
| 728 | 54.01 | 3.06 | 0.75 | 2.31 | 0.71 | 0.258 | 1.68 | 0.153 | 0.86 | 1.10 | 0.197 | No |
| 729 | 54.02 | 3.06 | 0.75 | 2.31 | 0.71 | 0.258 | 1.68 | 0.153 | 0.86 | 1.10 | 0.197 | No |
| 730 | 54.03 | 3.06 | 0.75 | 2.31 | 0.71 | 0.258 | 1.68 | 0.153 | 0.86 | 1.10 | 0.197 | No |
| 731 | 54.04 | 3.06 | 0.75 | 2.31 | 0.71 | 0.258 | 1.68 | 0.153 | 0.86 | 1.10 | 0.197 | No |
| 732 | 54.05 | 3.06 | 0.75 | 2.31 | 0.71 | 0.258 | 1.68 | 0.153 | 0.86 | 1.10 | 0.197 | No |
| 733 | 54.09 | 3.06 | 0.75 | 2.31 | 0.71 | 0.258 | 1.68 | 0.153 | 0.86 | 1.10 | 0.197 | No |
| 734 | 54.10 | 3.06 | 0.75 | 2.31 | 0.71 | 0.258 | 1.68 | 0.153 | 0.86 | 1.10 | 0.197 | No |
| 735 | 54.13 | 3.07 | 0.75 | 2.31 | 0.71 | 0.257 | 1.68 | 0.153 | 0.86 | 1.10 | 0.197 | No |
| 736 | 54.14 | 3.07 | 0.75 | 2.31 | 0.71 | 0.257 | 1.68 | 0.153 | 0.86 | 1.10 | 0.197 | No |
| 737 | 54.19 | 3.07 | 0.75 | 2.32 | 0.71 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.197 | No |
| 738 | 54.19 | 3.07 | 0.75 | 2.32 | 0.71 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.197 | No |
| 739 | 54.24 | 3.07 | 0.76 | 2.32 | 0.71 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.197 | No |
| 740 | 54.29 | 3.08 | 0.76 | 2.32 | 0.71 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.197 | No |
| 741 | 54.33 | 3.08 | 0.76 | 2.32 | 0.71 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.197 | No |
| 742 | 54.38 | 3.08 | 0.76 | 2.32 | 0.71 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.197 | No |
| 743 | 54.39 | 3.09 | 0.76 | 2.32 | 0.71 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.197 | No |
| 744 | 54.43 | 3.09 | 0.76 | 2.33 | 0.71 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.197 | No |
| 745 | 54.48 | 3.09 | 0.76 | 2.33 | 0.71 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.197 | No |
| 746 | 54.52 | 3.09 | 0.77 | 2.33 | 0.71 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.197 | No |
| 747 | 54.58 | 3.10 | 0.77 | 2.33 | 0.71 | 0.257 | 1.68 | 0.153 | 0.85 | 1.10 | 0.197 | No |
| 748 | 54.62 | 3.10 | 0.77 | 2.33 | 0.71 | 0.257 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 749 | 54.65 | 3.10 | 0.77 | 2.33 | 0.71 | 0.257 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 750 | 54.67 | 3.10 | 0.77 | 2.33 | 0.71 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 751 | 54.71 | 3.11 | 0.77 | 2.34 | 0.71 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 752 | 54.77 | 3.11 | 0.77 | 2.34 | 0.71 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 753 | 54.81 | 3.11 | 0.77 | 2.34 | 0.71 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 754 | 54.85 | 3.12 | 0.78 | 2.34 | 0.70 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 755 | 54.86 | 3.12 | 0.78 | 2.34 | 0.70 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 756 | 54.87 | 3.12 | 0.78 | 2.34 | 0.70 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 757 | 54.91 | 3.12 | 0.78 | 2.34 | 0.70 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 758 | 54.96 | 3.12 | 0.78 | 2.34 | 0.70 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 759 | 55.00 | 3.13 | 0.78 | 2.35 | 0.70 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 760 | 55.01 | 3.13 | 0.78 | 2.35 | 0.70 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 761 | 55.05 | 3.13 | 0.78 | 2.35 | 0.70 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 762 | 55.10 | 3.13 | 0.78 | 2.35 | 0.70 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 763 | 55.12 | 3.13 | 0.78 | 2.35 | 0.70 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 764 | 55.13 | 3.13 | 0.78 | 2.35 | 0.70 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 765 | 55.14 | 3.14 | 0.78 | 2.35 | 0.70 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 766 | 55.19 | 3.14 | 0.79 | 2.35 | 0.70 | 0.256 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 767 | 55.20 | 3.14 | 0.79 | 2.35 | 0.70 | 0.255 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 768 | 55.25 | 3.14 | 0.79 | 2.35 | 0.70 | 0.255 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 769 | 55.29 | 3.14 | 0.79 | 2.36 | 0.70 | 0.255 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 770 | 55.33 | 3.15 | 0.79 | 2.36 | 0.70 | 0.255 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 771 | 55.38 | 3.15 | 0.79 | 2.36 | 0.70 | 0.255 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 772 | 55.48 | 3.16 | 0.80 | 2.36 | 0.70 | 0.255 | 1.68 | 0.152 | 0.85 | 1.10 | 0.196 | No |
| 773 | 55.57 | 3.16 | 0.80 | 2.37 | 0.70 | 0.255 | 1.68 | 0.151 | 0.85 | 1.10 | 0.196 | No |
| 774 | 55.63 | 3.17 | 0.80 | 2.37 | 0.70 | 0.255 | 1.68 | 0.151 | 0.85 | 1.10 | 0.196 | No |
| 775 | 55.72 | 3.17 | 0.80 | 2.37 | 0.70 | 0.255 | 1.68 | 0.151 | 0.85 | 1.10 | 0.196 | No |
| 776 | 55.80 | 3.18 | 0.80 | 2.37 | 0.70 | 0.254 | 1.68 | 0.151 | 0.85 | 1.10 | 0.195 | No |
| 777 | 55.86 | 3.18 | 0.81 | 2.38 | 0.70 | 0.254 | 1.68 | 0.151 | 0.85 | 1.10 | 0.195 | No |
| 778 | 55.97 | 3.19 | 0.81 | 2.38 | 0.69 | 0.254 | 1.68 | 0.151 | 0.85 | 1.10 | 0.195 | No |
| 779 | 56.01 | 3.19 | 0.81 | 2.38 | 0.69 | 0.254 | 1.68 | 0.151 | 0.85 | 1.10 | 0.195 | No |
| 780 | 56.06 | 3.20 | 0.81 | 2.38 | 0.69 | 0.254 | 1.68 | 0.151 | 0.85 | 1.10 | 0.195 | No |
| 781 | 56.11 | 3.20 | 0.81 | 2.39 | 0.69 | 0.254 | 1.68 | 0.151 | 0.85 | 1.10 | 0.195 | No |
| 782 | 56.15 | 3.20 | 0.82 | 2.39 | 0.69 | 0.254 | 1.68 | 0.151 | 0.85 | 1.10 | 0.195 | No |
| 783 | 56.20 | 3.21 | 0.82 | 2.39 | 0.69 | 0.254 | 1.68 | 0.151 | 0.85 | 1.10 | 0.195 | No |
| 784 | 56.27 | 3.21 | 0.82 | 2.39 | 0.69 | 0.253 | 1.68 | 0.151 | 0.85 | 1.10 | 0.195 | No |
| 785 | 56.27 | 3.21 | 0.82 | 2.39 | 0.69 | 0.253 | 1.68 | 0.151 | 0.85 | 1.10 | 0.195 | No |
| 786 | 56.30 | 3.21 | 0.82 | 2.39 | 0.69 | 0.253 | 1.68 | 0.151 | 0.85 | 1.10 | 0.195 | No |
| 787 | 56.33 | 3.22 | 0.82 | 2.39 | 0.69 | 0.253 | 1.68 | 0.151 | 0.85 | 1.10 | 0.195 | No |
| 788 | 56.35 | 3.22 | 0.82 | 2.39 | 0.69 | 0.253 | 1.68 | 0.151 | 0.85 | 1.10 | 0.195 | No |
| 789 | 56.40 | 3.22 | 0.82 | 2.40 | 0.69 | 0.253 | 1.68 | 0.151 | 0.85 | 1.10 | 0.195 | No |
| 790 | 56.41 | 3.22 | 0.82 | 2.40 | 0.69 | 0.253 | 1.68 | 0.151 | 0.85 | 1.10 | 0.195 | No |
| 791 | 56.44 | 3.22 | 0.83 | 2.40 | 0.69 | 0.253 | 1.68 | 0.150 | 0.85 | 1.10 | 0.195 | No |
| 792 | 56.49 | 3.23 | 0.83 | 2.40 | 0.69 | 0.253 | 1.68 | 0.150 | 0.85 | 1.10 | 0.195 | No |
| 793 | 56.54 | 3.23 | 0.83 | 2.40 | 0.69 | 0.253 | 1.68 | 0.150 | 0.85 | 1.10 | 0.195 | No |
| 794 | 56.58 | 3.23 | 0.83 | 2.40 | 0.69 | 0.253 | 1.68 | 0.150 | 0.85 | 1.10 | 0.195 | No |
| 795 | 56.59 | 3.23 | 0.83 | 2.40 | 0.69 | 0.253 | 1.68 | 0.150 | 0.85 | 1.10 | 0.195 | No |
| 796 | 56.64 | 3.24 | 0.83 | 2.41 | 0.69 | 0.253 | 1.68 | 0.150 | 0.85 | 1.10 | 0.195 | No |
| 797 | 56.69 | 3.24 | 0.83 | 2.41 | 0.69 | 0.253 | 1.68 | 0.150 | 0.85 | 1.10 | 0.195 | No |
| 798 | 56.73 | 3.24 | 0.83 | 2.41 | 0.69 | 0.253 | 1.68 | 0.150 | 0.85 | 1.10 | 0.195 | No |
| 799 | 56.78 | 3.25 | 0.84 | 2.41 | 0.69 | 0.253 | 1.68 | 0.150 | 0.85 | 1.10 | 0.195 | No |
| 800 | 56.83 | 3.25 | 0.84 | 2.41 | 0.69 | 0.252 | 1.68 | 0.150 | 0.85 | 1.10 | 0.195 | No |
| 801 | 56.88 | 3.25 | 0.84 | 2.41 | 0.69 | 0.252 | 1.68 | 0.150 | 0.85 | 1.10 | 0.195 | No |
| 802 | 56.89 | 3.25 | 0.84 | 2.42 | 0.69 | 0.252 | 1.68 | 0.150 | 0.85 | 1.10 | 0.195 | No |
| 803 | 56.95 | 3.26 | 0.84 | 2.42 | 0.69 | 0.252 | 1.68 | 0.150 | 0.85 | 1.10 | 0.195 | No |
| 804 | 57.01 | 3.26 | 0.84 | 2.42 | 0.68 | 0.252 | 1.68 | 0.150 | 0.85 | 1.10 | 0.194 | No |
| 805 | 57.07 | 3.27 | 0.84 | 2.42 | 0.68 | 0.252 | 1.68 | 0.150 | 0.85 | 1.10 | 0.194 | No |
| 806 | 57.11 | 3.27 | 0.85 | 2.42 | 0.68 | 0.252 | 1.68 | 0.150 | 0.85 | 1.10 | 0.194 | No |
| 807 | 57.17 | 3.27 | 0.85 | 2.43 | 0.68 | 0.252 | 1.68 | 0.150 | 0.85 | 1.10 | 0.194 | No |
| 808 | 57.26 | 3.28 | 0.85 | 2.43 | 0.68 | 0.252 | 1.68 | 0.150 | 0.85 | 1.10 | 0.194 | No |
| 809 | 57.31 | 3.28 | 0.85 | 2.43 | 0.68 | 0.252 | 1.68 | 0.150 | 0.85 | 1.10 | 0.194 | No |
| 810 | 57.37 | 3.29 | 0.85 | 2.43 | 0.68 | 0.251 | 1.68 | 0.149 | 0.85 | 1.10 | 0.194 | No |
| 811 | 57.45 | 3.29 | 0.86 | 2.43 | 0.68 | 0.251 | 1.68 | 0.149 | 0.85 | 1.10 | 0.194 | No |
| 812 | 57.51 | 3.30 | 0.86 | 2.44 | 0.68 | 0.251 | 1.68 | 0.149 | 0.85 | 1.10 | 0.194 | No |
| 813 | 57.53 | 3.30 | 0.86 | 2.44 | 0.68 | 0.251 | 1.68 | 0.149 | 0.85 | 1.10 | 0.194 | No |
| 814 | 57.59 | 3.30 | 0.86 | 2.44 | 0.68 | 0.251 | 1.68 | 0.149 | 0.85 | 1.10 | 0.194 | No |
| 815 | 57.63 | 3.30 | 0.86 | 2.44 | 0.68 | 0.251 | 1.68 | 0.149 | 0.85 | 1.10 | 0.194 | No |
| 816 | 57.68 | 3.31 | 0.86 | 2.44 | 0.68 | 0.251 | 1.68 | 0.149 | 0.85 | 1.10 | 0.194 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 817 | 57.73 | 3.31 | 0.87 | 2.44 | 0.68 | 0.251 | 1.68 | 0.149 | 0.85 | 1.10 | 0.194 | No |
| 818 | 57.78 | 3.31 | 0.87 | 2.45 | 0.68 | 0.251 | 1.68 | 0.149 | 0.85 | 1.10 | 0.194 | No |
| 819 | 57.86 | 3.32 | 0.87 | 2.45 | 0.68 | 0.251 | 1.68 | 0.149 | 0.85 | 1.10 | 0.194 | No |
| 820 | 57.92 | 3.32 | 0.87 | 2.45 | 0.68 | 0.250 | 1.68 | 0.149 | 0.85 | 1.10 | 2.000 | Yes |
| 821 | 57.98 | 3.33 | 0.87 | 2.45 | 0.68 | 0.250 | 1.68 | 0.149 | 0.85 | 1.10 | 2.000 | Yes |
| 822 | 58.06 | 3.33 | 0.88 | 2.45 | 0.68 | 0.250 | 1.68 | 0.149 | 0.85 | 1.10 | 2.000 | Yes |
| 823 | 58.12 | 3.33 | 0.88 | 2.46 | 0.68 | 0.250 | 1.68 | 0.149 | 0.84 | 1.10 | 2.000 | Yes |
| 824 | 58.21 | 3.34 | 0.88 | 2.46 | 0.67 | 0.250 | 1.68 | 0.149 | 0.84 | 1.10 | 2.000 | Yes |
| 825 | 58.26 | 3.34 | 0.88 | 2.46 | 0.67 | 0.250 | 1.68 | 0.149 | 0.84 | 1.10 | 2.000 | Yes |
| 826 | 58.35 | 3.35 | 0.88 | 2.46 | 0.67 | 0.250 | 1.68 | 0.148 | 0.84 | 1.10 | 2.000 | Yes |
| 827 | 58.41 | 3.35 | 0.89 | 2.47 | 0.67 | 0.250 | 1.68 | 0.148 | 0.84 | 1.10 | 2.000 | Yes |
| 828 | 58.50 | 3.36 | 0.89 | 2.47 | 0.67 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 2.000 | Yes |
| 829 | 58.56 | 3.36 | 0.89 | 2.47 | 0.67 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 2.000 | Yes |
| 830 | 58.64 | 3.37 | 0.89 | 2.47 | 0.67 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 2.000 | Yes |
| 831 | 58.73 | 3.37 | 0.90 | 2.48 | 0.67 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 2.000 | Yes |
| 832 | 58.80 | 3.38 | 0.90 | 2.48 | 0.67 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 2.000 | Yes |
| 833 | 58.84 | 3.38 | 0.90 | 2.48 | 0.67 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 2.000 | Yes |
| 834 | 58.85 | 3.38 | 0.90 | 2.48 | 0.67 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.193 | No |
| 835 | 58.93 | 3.38 | 0.90 | 2.48 | 0.67 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.193 | No |
| 836 | 58.98 | 3.39 | 0.90 | 2.48 | 0.67 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.193 | No |
| 837 | 59.02 | 3.39 | 0.91 | 2.48 | 0.67 | 0.249 | 1.68 | 0.148 | 0.84 | 1.10 | 0.193 | No |
| 838 | 59.12 | 3.40 | 0.91 | 2.49 | 0.67 | 0.248 | 1.68 | 0.148 | 0.84 | 1.10 | 0.193 | No |
| 839 | 59.17 | 3.40 | 0.91 | 2.49 | 0.67 | 0.248 | 1.68 | 0.148 | 0.84 | 1.10 | 0.193 | No |
| 840 | 59.27 | 3.40 | 0.91 | 2.49 | 0.67 | 0.248 | 1.68 | 0.148 | 0.84 | 1.10 | 0.193 | No |
| 841 | 59.31 | 3.41 | 0.91 | 2.49 | 0.66 | 0.248 | 1.68 | 0.147 | 0.84 | 1.10 | 0.193 | No |
| 842 | 59.41 | 3.41 | 0.92 | 2.50 | 0.66 | 0.248 | 1.68 | 0.147 | 0.84 | 1.10 | 0.192 | No |
| 843 | 59.46 | 3.42 | 0.92 | 2.50 | 0.66 | 0.248 | 1.68 | 0.147 | 0.84 | 1.10 | 0.192 | No |
| 844 | 59.55 | 3.42 | 0.92 | 2.50 | 0.66 | 0.248 | 1.68 | 0.147 | 0.84 | 1.10 | 0.192 | No |
| 845 | 59.65 | 3.43 | 0.93 | 2.50 | 0.66 | 0.248 | 1.68 | 0.147 | 0.84 | 1.10 | 0.192 | No |
| 846 | 59.70 | 3.43 | 0.93 | 2.50 | 0.66 | 0.247 | 1.68 | 0.147 | 0.84 | 1.10 | 0.192 | No |
| 847 | 59.80 | 3.44 | 0.93 | 2.51 | 0.66 | 0.247 | 1.68 | 0.147 | 0.84 | 1.10 | 0.192 | No |
| 848 | 59.89 | 3.44 | 0.93 | 2.51 | 0.66 | 0.247 | 1.68 | 0.147 | 0.84 | 1.10 | 0.192 | No |
| 849 | 59.94 | 3.44 | 0.93 | 2.51 | 0.66 | 0.247 | 1.68 | 0.147 | 0.84 | 1.10 | 0.192 | No |
| 850 | 60.01 | 3.45 | 0.94 | 2.51 | 0.66 | 0.247 | 1.68 | 0.147 | 0.84 | 1.10 | 0.192 | No |
| 851 | 60.02 | 3.45 | 0.94 | 2.51 | 0.66 | 0.247 | 1.68 | 0.147 | 0.84 | 1.10 | 0.192 | No |
| 852 | 60.08 | 3.45 | 0.94 | 2.51 | 0.66 | 0.247 | 1.68 | 0.147 | 0.84 | 1.10 | 0.192 | No |
| 853 | 60.12 | 3.46 | 0.94 | 2.52 | 0.66 | 0.247 | 1.68 | 0.147 | 0.84 | 1.10 | 0.192 | No |
| 854 | 60.17 | 3.46 | 0.94 | 2.52 | 0.66 | 0.247 | 1.68 | 0.147 | 0.84 | 1.10 | 0.192 | No |
| 855 | 60.27 | 3.46 | 0.94 | 2.52 | 0.66 | 0.247 | 1.68 | 0.147 | 0.84 | 1.10 | 0.192 | No |
| 856 | 60.31 | 3.47 | 0.95 | 2.52 | 0.66 | 0.247 | 1.68 | 0.147 | 0.84 | 1.10 | 0.192 | No |
| 857 | 60.37 | 3.47 | 0.95 | 2.52 | 0.66 | 0.246 | 1.68 | 0.146 | 0.84 | 1.10 | 0.192 | No |
| 858 | 60.46 | 3.47 | 0.95 | 2.52 | 0.66 | 0.246 | 1.68 | 0.146 | 0.84 | 1.10 | 0.192 | No |
| 859 | 60.51 | 3.48 | 0.95 | 2.53 | 0.66 | 0.246 | 1.68 | 0.146 | 0.84 | 1.10 | 0.192 | No |
| 860 | 60.61 | 3.48 | 0.95 | 2.53 | 0.65 | 0.246 | 1.68 | 0.146 | 0.84 | 1.10 | 0.192 | No |
| 861 | 60.65 | 3.49 | 0.96 | 2.53 | 0.65 | 0.246 | 1.68 | 0.146 | 0.84 | 1.10 | 0.192 | No |
| 862 | 60.75 | 3.49 | 0.96 | 2.53 | 0.65 | 0.246 | 1.68 | 0.146 | 0.84 | 1.10 | 0.191 | No |
| 863 | 60.81 | 3.49 | 0.96 | 2.53 | 0.65 | 0.246 | 1.68 | 0.146 | 0.84 | 1.10 | 0.191 | No |
| 864 | 60.89 | 3.50 | 0.96 | 2.53 | 0.65 | 0.246 | 1.68 | 0.146 | 0.84 | 1.10 | 0.191 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 865 | 60.94 | 3.50 | 0.97 | 2.54 | 0.65 | 0.246 | 1.68 | 0.146 | 0.84 | 1.10 | 0.191 | No |
| 866 | 61.03 | 3.51 | 0.97 | 2.54 | 0.65 | 0.246 | 1.68 | 0.146 | 0.84 | 1.10 | 0.191 | No |
| 867 | 61.09 | 3.51 | 0.97 | 2.54 | 0.65 | 0.245 | 1.68 | 0.146 | 0.84 | 1.10 | 0.191 | No |
| 868 | 61.19 | 3.51 | 0.97 | 2.54 | 0.65 | 0.245 | 1.68 | 0.146 | 0.84 | 1.10 | 0.191 | No |
| 869 | 61.24 | 3.52 | 0.97 | 2.54 | 0.65 | 0.245 | 1.68 | 0.146 | 0.84 | 1.10 | 0.191 | No |
| 870 | 61.33 | 3.52 | 0.98 | 2.54 | 0.65 | 0.245 | 1.68 | 0.146 | 0.84 | 1.10 | 0.191 | No |
| 871 | 61.38 | 3.52 | 0.98 | 2.55 | 0.65 | 0.245 | 1.68 | 0.146 | 0.84 | 1.10 | 0.191 | No |
| 872 | 61.47 | 3.53 | 0.98 | 2.55 | 0.65 | 0.245 | 1.68 | 0.146 | 0.84 | 1.10 | 0.191 | No |
| 873 | 61.53 | 3.53 | 0.98 | 2.55 | 0.65 | 0.245 | 1.68 | 0.146 | 0.84 | 1.10 | 0.191 | No |
| 874 | 61.62 | 3.54 | 0.99 | 2.55 | 0.65 | 0.245 | 1.68 | 0.145 | 0.84 | 1.10 | 0.191 | No |
| 875 | 61.70 | 3.54 | 0.99 | 2.55 | 0.65 | 0.245 | 1.68 | 0.145 | 0.84 | 1.10 | 0.191 | No |
| 876 | 61.77 | 3.55 | 0.99 | 2.56 | 0.65 | 0.244 | 1.68 | 0.145 | 0.84 | 1.10 | 0.191 | No |
| 877 | 61.86 | 3.55 | 0.99 | 2.56 | 0.64 | 0.244 | 1.68 | 0.145 | 0.84 | 1.10 | 0.191 | No |
| 878 | 61.95 | 3.56 | 1.00 | 2.56 | 0.64 | 0.244 | 1.68 | 0.145 | 0.84 | 1.10 | 0.191 | No |
| 879 | 61.97 | 3.56 | 1.00 | 2.56 | 0.64 | 0.244 | 1.68 | 0.145 | 0.84 | 1.10 | 0.191 | No |
| 880 | 62.01 | 3.56 | 1.00 | 2.56 | 0.64 | 0.244 | 1.68 | 0.145 | 0.84 | 1.10 | 2.000 | No |
| 881 | 62.10 | 3.57 | 1.00 | 2.57 | 0.64 | 0.244 | 1.68 | 0.145 | 0.84 | 1.10 | 2.000 | Yes |
| 882 | 62.24 | 3.58 | 1.01 | 2.57 | 0.64 | 0.244 | 1.68 | 0.145 | 0.84 | 1.10 | 2.000 | Yes |
| 883 | 62.34 | 3.58 | 1.01 | 2.57 | 0.64 | 0.244 | 1.68 | 0.145 | 0.84 | 1.10 | 2.000 | Yes |
| 884 | 62.49 | 3.59 | 1.01 | 2.58 | 0.64 | 0.243 | 1.68 | 0.145 | 0.84 | 1.10 | 2.000 | Yes |
| 885 | 62.54 | 3.60 | 1.02 | 2.58 | 0.64 | 0.243 | 1.68 | 0.145 | 0.84 | 1.10 | 2.000 | Yes |
| 886 | 62.66 | 3.60 | 1.02 | 2.58 | 0.64 | 0.243 | 1.68 | 0.144 | 0.84 | 1.10 | 2.000 | Yes |
| 887 | 62.74 | 3.61 | 1.02 | 2.59 | 0.64 | 0.243 | 1.68 | 0.144 | 0.84 | 1.10 | 2.000 | Yes |
| 888 | 62.87 | 3.62 | 1.03 | 2.59 | 0.64 | 0.243 | 1.68 | 0.144 | 0.84 | 1.10 | 2.000 | No |
| 889 | 62.92 | 3.62 | 1.03 | 2.59 | 0.64 | 0.243 | 1.68 | 0.144 | 0.84 | 1.10 | 2.000 | No |
| 890 | 63.03 | 3.63 | 1.03 | 2.60 | 0.64 | 0.243 | 1.68 | 0.144 | 0.84 | 1.10 | 2.000 | No |
| 891 | 63.15 | 3.63 | 1.03 | 2.60 | 0.63 | 0.242 | 1.68 | 0.144 | 0.84 | 1.10 | 2.000 | No |
| 892 | 63.26 | 3.64 | 1.04 | 2.60 | 0.63 | 0.242 | 1.68 | 0.144 | 0.84 | 1.10 | 2.000 | No |
| 893 | 63.37 | 3.65 | 1.04 | 2.61 | 0.63 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 2.000 | No |
| 894 | 63.45 | 3.65 | 1.04 | 2.61 | 0.63 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 2.000 | No |
| 895 | 63.54 | 3.66 | 1.05 | 2.61 | 0.63 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 2.000 | No |
| 896 | 63.61 | 3.66 | 1.05 | 2.61 | 0.63 | 0.242 | 1.68 | 0.144 | 0.83 | 1.10 | 2.000 | Yes |
| 897 | 63.69 | 3.67 | 1.05 | 2.62 | 0.63 | 0.241 | 1.68 | 0.144 | 0.83 | 1.10 | 2.000 | Yes |
| 898 | 63.79 | 3.67 | 1.05 | 2.62 | 0.63 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 2.000 | Yes |
| 899 | 63.89 | 3.68 | 1.06 | 2.62 | 0.63 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 2.000 | Yes |
| 900 | 63.98 | 3.69 | 1.06 | 2.63 | 0.63 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 2.000 | Yes |
| 901 | 64.07 | 3.69 | 1.06 | 2.63 | 0.63 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 2.000 | Yes |
| 902 | 64.15 | 3.70 | 1.07 | 2.63 | 0.63 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 2.000 | Yes |
| 903 | 64.23 | 3.70 | 1.07 | 2.63 | 0.63 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 2.000 | No |
| 904 | 64.26 | 3.70 | 1.07 | 2.63 | 0.63 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 2.000 | No |
| 905 | 64.29 | 3.70 | 1.07 | 2.63 | 0.63 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 2.000 | No |
| 906 | 64.33 | 3.71 | 1.07 | 2.64 | 0.63 | 0.241 | 1.68 | 0.143 | 0.83 | 1.10 | 2.000 | No |
| 907 | 64.43 | 3.71 | 1.07 | 2.64 | 0.63 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 2.000 | No |
| 908 | 64.47 | 3.71 | 1.08 | 2.64 | 0.63 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 2.000 | No |
| 909 | 64.53 | 3.72 | 1.08 | 2.64 | 0.63 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 2.000 | No |
| 910 | 64.62 | 3.72 | 1.08 | 2.64 | 0.62 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 2.000 | No |
| 911 | 64.72 | 3.73 | 1.08 | 2.64 | 0.62 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 2.000 | No |
| 912 | 64.78 | 3.73 | 1.09 | 2.65 | 0.62 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 913 | 64.86 | 3.74 | 1.09 | 2.65 | 0.62 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 2.000 | No |
| 914 | 64.96 | 3.74 | 1.09 | 2.65 | 0.62 | 0.240 | 1.68 | 0.143 | 0.83 | 1.10 | 2.000 | No |
| 915 | 65.06 | 3.75 | 1.09 | 2.65 | 0.62 | 0.240 | 1.68 | 0.142 | 0.83 | 1.10 | 2.000 | No |
| 916 | 65.11 | 3.75 | 1.10 | 2.65 | 0.62 | 0.240 | 1.68 | 0.142 | 0.83 | 1.10 | 2.000 | No |
| 917 | 65.21 | 3.76 | 1.10 | 2.66 | 0.62 | 0.240 | 1.68 | 0.142 | 0.83 | 1.10 | 2.000 | No |
| 918 | 65.31 | 3.76 | 1.10 | 2.66 | 0.62 | 0.239 | 1.68 | 0.142 | 0.83 | 1.10 | 2.000 | No |
| 919 | 65.40 | 3.77 | 1.10 | 2.66 | 0.62 | 0.239 | 1.68 | 0.142 | 0.83 | 1.10 | 2.000 | No |
| 920 | 65.50 | 3.77 | 1.11 | 2.66 | 0.62 | 0.239 | 1.68 | 0.142 | 0.83 | 1.10 | 2.000 | No |
| 921 | 65.58 | 3.78 | 1.11 | 2.67 | 0.62 | 0.239 | 1.68 | 0.142 | 0.83 | 1.10 | 2.000 | No |
| 922 | 65.68 | 3.78 | 1.11 | 2.67 | 0.62 | 0.239 | 1.68 | 0.142 | 0.83 | 1.10 | 2.000 | No |
| 923 | 65.78 | 3.79 | 1.12 | 2.67 | 0.62 | 0.239 | 1.68 | 0.142 | 0.83 | 1.10 | 2.000 | No |
| 924 | 65.84 | 3.79 | 1.12 | 2.67 | 0.62 | 0.239 | 1.68 | 0.142 | 0.83 | 1.10 | 2.000 | No |
| 925 | 65.86 | 3.79 | 1.12 | 2.67 | 0.62 | 0.239 | 1.68 | 0.142 | 0.83 | 1.10 | 2.000 | No |
| 926 | 65.87 | 3.79 | 1.12 | 2.67 | 0.62 | 0.239 | 1.68 | 0.142 | 0.83 | 1.10 | 2.000 | No |
| 927 | 65.98 | 3.80 | 1.12 | 2.68 | 0.62 | 0.239 | 1.68 | 0.142 | 0.83 | 1.10 | 2.000 | No |
| 928 | 66.10 | 3.80 | 1.13 | 2.68 | 0.61 | 0.238 | 1.68 | 0.142 | 0.83 | 1.10 | 2.000 | No |
| 929 | 66.21 | 3.81 | 1.13 | 2.68 | 0.61 | 0.238 | 1.68 | 0.142 | 0.83 | 1.10 | 2.000 | No |
| 930 | 66.34 | 3.82 | 1.13 | 2.68 | 0.61 | 0.238 | 1.68 | 0.142 | 0.83 | 1.10 | 2.000 | No |
| 931 | 66.48 | 3.83 | 1.14 | 2.69 | 0.61 | 0.238 | 1.68 | 0.141 | 0.83 | 1.10 | 2.000 | No |
| 932 | 66.62 | 3.83 | 1.14 | 2.69 | 0.61 | 0.238 | 1.68 | 0.141 | 0.83 | 1.10 | 2.000 | No |
| 933 | 66.68 | 3.84 | 1.14 | 2.69 | 0.61 | 0.238 | 1.68 | 0.141 | 0.83 | 1.10 | 2.000 | No |
| 934 | 66.87 | 3.85 | 1.15 | 2.70 | 0.61 | 0.238 | 1.68 | 0.141 | 0.83 | 1.10 | 2.000 | No |
| 935 | 66.96 | 3.85 | 1.15 | 2.70 | 0.61 | 0.237 | 1.68 | 0.141 | 0.83 | 1.10 | 2.000 | No |
| 936 | 67.11 | 3.86 | 1.16 | 2.70 | 0.61 | 0.237 | 1.68 | 0.141 | 0.83 | 1.10 | 2.000 | No |
| 937 | 67.21 | 3.87 | 1.16 | 2.71 | 0.61 | 0.237 | 1.68 | 0.141 | 0.83 | 1.10 | 2.000 | No |
| 938 | 67.35 | 3.87 | 1.17 | 2.71 | 0.61 | 0.237 | 1.68 | 0.141 | 0.83 | 1.10 | 2.000 | No |
| 939 | 67.45 | 3.88 | 1.17 | 2.71 | 0.61 | 0.237 | 1.68 | 0.141 | 0.83 | 1.10 | 2.000 | No |
| 940 | 67.59 | 3.89 | 1.17 | 2.72 | 0.61 | 0.237 | 1.68 | 0.141 | 0.83 | 1.10 | 2.000 | No |
| 941 | 67.68 | 3.89 | 1.18 | 2.72 | 0.61 | 0.237 | 1.68 | 0.141 | 0.83 | 1.10 | 2.000 | Yes |
| 942 | 67.83 | 3.90 | 1.18 | 2.72 | 0.60 | 0.236 | 1.68 | 0.141 | 0.83 | 1.10 | 2.000 | Yes |
| 943 | 67.92 | 3.91 | 1.18 | 2.73 | 0.60 | 0.236 | 1.68 | 0.140 | 0.83 | 1.10 | 2.000 | Yes |
| 944 | 68.02 | 3.92 | 1.19 | 2.73 | 0.60 | 0.236 | 1.68 | 0.140 | 0.83 | 1.10 | 2.000 | Yes |
| 945 | 68.07 | 3.92 | 1.19 | 2.73 | 0.60 | 0.236 | 1.68 | 0.140 | 0.83 | 1.10 | 2.000 | Yes |
| 946 | 68.16 | 3.93 | 1.19 | 2.73 | 0.60 | 0.236 | 1.68 | 0.140 | 0.83 | 1.10 | 2.000 | No |
| 947 | 68.26 | 3.93 | 1.19 | 2.74 | 0.60 | 0.236 | 1.68 | 0.140 | 0.83 | 1.10 | 2.000 | No |
| 948 | 68.35 | 3.94 | 1.20 | 2.74 | 0.60 | 0.236 | 1.68 | 0.140 | 0.83 | 1.10 | 2.000 | No |
| 949 | 68.45 | 3.94 | 1.20 | 2.74 | 0.60 | 0.236 | 1.68 | 0.140 | 0.83 | 1.10 | 2.000 | No |
| 950 | 68.55 | 3.95 | 1.20 | 2.75 | 0.60 | 0.235 | 1.68 | 0.140 | 0.83 | 1.10 | 2.000 | No |
| 951 | 68.65 | 3.96 | 1.21 | 2.75 | 0.60 | 0.235 | 1.68 | 0.140 | 0.83 | 1.10 | 2.000 | No |
| 952 | 68.78 | 3.97 | 1.21 | 2.76 | 0.60 | 0.235 | 1.68 | 0.140 | 0.83 | 1.10 | 2.000 | No |
| 953 | 68.78 | 3.97 | 1.21 | 2.76 | 0.60 | 0.235 | 1.68 | 0.140 | 0.83 | 1.10 | 2.000 | No |
| 954 | 68.79 | 3.97 | 1.21 | 2.76 | 0.60 | 0.235 | 1.68 | 0.140 | 0.83 | 1.10 | 2.000 | No |
| 955 | 68.83 | 3.97 | 1.21 | 2.76 | 0.60 | 0.235 | 1.68 | 0.140 | 0.83 | 1.10 | 2.000 | No |
| 956 | 68.93 | 3.98 | 1.21 | 2.76 | 0.60 | 0.235 | 1.68 | 0.140 | 0.83 | 1.10 | 2.000 | No |
| 957 | 68.98 | 3.98 | 1.22 | 2.76 | 0.60 | 0.235 | 1.68 | 0.140 | 0.83 | 1.10 | 2.000 | No |
| 958 | 69.04 | 3.98 | 1.22 | 2.76 | 0.60 | 0.235 | 1.68 | 0.140 | 0.83 | 1.10 | 2.000 | No |
| 959 | 69.12 | 3.99 | 1.22 | 2.77 | 0.60 | 0.235 | 1.68 | 0.140 | 0.83 | 1.10 | 2.000 | No |
| 960 | 69.22 | 3.99 | 1.22 | 2.77 | 0.60 | 0.235 | 1.68 | 0.139 | 0.82 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 961 | 69.28 | 4.00 | 1.23 | 2.77 | 0.60 | 0.235 | 1.68 | 0.139 | 0.82 | 1.10 | 2.000 | No |
| 962 | 69.36 | 4.00 | 1.23 | 2.77 | 0.60 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 2.000 | No |
| 963 | 69.45 | 4.01 | 1.23 | 2.78 | 0.59 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 2.000 | No |
| 964 | 69.60 | 4.02 | 1.24 | 2.78 | 0.59 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 2.000 | No |
| 965 | 69.70 | 4.02 | 1.24 | 2.79 | 0.59 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 2.000 | No |
| 966 | 69.80 | 4.03 | 1.24 | 2.79 | 0.59 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 2.000 | No |
| 967 | 69.89 | 4.04 | 1.24 | 2.79 | 0.59 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 2.000 | No |
| 968 | 69.98 | 4.04 | 1.25 | 2.79 | 0.59 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 2.000 | No |
| 969 | 70.08 | 4.05 | 1.25 | 2.80 | 0.59 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 2.000 | Yes |
| 970 | 70.18 | 4.05 | 1.25 | 2.80 | 0.59 | 0.234 | 1.68 | 0.139 | 0.82 | 1.10 | 2.000 | Yes |
| 971 | 70.32 | 4.06 | 1.26 | 2.80 | 0.59 | 0.233 | 1.68 | 0.139 | 0.82 | 1.10 | 2.000 | Yes |
| 972 | 70.42 | 4.07 | 1.26 | 2.81 | 0.59 | 0.233 | 1.68 | 0.139 | 0.82 | 1.10 | 2.000 | Yes |
| 973 | 70.54 | 4.08 | 1.26 | 2.81 | 0.59 | 0.233 | 1.68 | 0.139 | 0.82 | 1.10 | 2.000 | Yes |
| 974 | 70.66 | 4.08 | 1.27 | 2.81 | 0.59 | 0.233 | 1.68 | 0.139 | 0.82 | 1.10 | 2.000 | No |
| 975 | 70.75 | 4.09 | 1.27 | 2.82 | 0.59 | 0.233 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 976 | 70.80 | 4.09 | 1.27 | 2.82 | 0.59 | 0.233 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 977 | 70.89 | 4.10 | 1.28 | 2.82 | 0.59 | 0.233 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 978 | 70.99 | 4.10 | 1.28 | 2.82 | 0.59 | 0.233 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 979 | 71.08 | 4.11 | 1.28 | 2.82 | 0.59 | 0.233 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 980 | 71.17 | 4.11 | 1.28 | 2.83 | 0.59 | 0.233 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 981 | 71.23 | 4.11 | 1.29 | 2.83 | 0.59 | 0.233 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 982 | 71.33 | 4.12 | 1.29 | 2.83 | 0.58 | 0.232 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 983 | 71.42 | 4.12 | 1.29 | 2.83 | 0.58 | 0.232 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 984 | 71.52 | 4.13 | 1.30 | 2.83 | 0.58 | 0.232 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 985 | 71.58 | 4.13 | 1.30 | 2.83 | 0.58 | 0.232 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 986 | 71.67 | 4.14 | 1.30 | 2.84 | 0.58 | 0.232 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 987 | 71.81 | 4.14 | 1.30 | 2.84 | 0.58 | 0.232 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 988 | 71.82 | 4.14 | 1.30 | 2.84 | 0.58 | 0.232 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 989 | 71.86 | 4.15 | 1.31 | 2.84 | 0.58 | 0.232 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 990 | 71.91 | 4.15 | 1.31 | 2.84 | 0.58 | 0.232 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 991 | 71.97 | 4.15 | 1.31 | 2.84 | 0.58 | 0.232 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 992 | 72.05 | 4.16 | 1.31 | 2.85 | 0.58 | 0.232 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 993 | 72.10 | 4.16 | 1.31 | 2.85 | 0.58 | 0.232 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 994 | 72.20 | 4.17 | 1.32 | 2.85 | 0.58 | 0.232 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 995 | 72.25 | 4.17 | 1.32 | 2.85 | 0.58 | 0.232 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 996 | 72.34 | 4.17 | 1.32 | 2.85 | 0.58 | 0.232 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 997 | 72.44 | 4.18 | 1.32 | 2.85 | 0.58 | 0.232 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 998 | 72.53 | 4.18 | 1.33 | 2.86 | 0.58 | 0.231 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 999 | 72.63 | 4.19 | 1.33 | 2.86 | 0.58 | 0.231 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 1000 | 72.69 | 4.19 | 1.33 | 2.86 | 0.58 | 0.231 | 1.68 | 0.138 | 0.82 | 1.10 | 2.000 | No |
| 1001 | 72.82 | 4.20 | 1.34 | 2.86 | 0.58 | 0.231 | 1.68 | 0.137 | 0.82 | 1.10 | 2.000 | No |
| 1002 | 72.92 | 4.20 | 1.34 | 2.87 | 0.58 | 0.231 | 1.68 | 0.137 | 0.82 | 1.10 | 2.000 | No |
| 1003 | 73.06 | 4.21 | 1.34 | 2.87 | 0.58 | 0.231 | 1.68 | 0.137 | 0.82 | 1.10 | 2.000 | No |
| 1004 | 73.16 | 4.22 | 1.35 | 2.87 | 0.58 | 0.231 | 1.68 | 0.137 | 0.82 | 1.10 | 2.000 | No |
| 1005 | 73.30 | 4.23 | 1.35 | 2.87 | 0.58 | 0.231 | 1.68 | 0.137 | 0.82 | 1.10 | 2.000 | No |
| 1006 | 73.35 | 4.23 | 1.35 | 2.88 | 0.58 | 0.231 | 1.68 | 0.137 | 0.82 | 1.10 | 2.000 | No |
| 1007 | 73.38 | 4.23 | 1.35 | 2.88 | 0.57 | 0.231 | 1.68 | 0.137 | 0.82 | 1.10 | 2.000 | No |
| 1008 | 73.47 | 4.24 | 1.36 | 2.88 | 0.57 | 0.231 | 1.68 | 0.137 | 0.82 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1009 | 73.53 | 4.24 | 1.36 | 2.88 | 0.57 | 0.231 | 1.68 | 0.137 | 0.82 | 1.10 | 2.000 | No |
| 1010 | 73.62 | 4.24 | 1.36 | 2.88 | 0.57 | 0.231 | 1.68 | 0.137 | 0.82 | 1.10 | 2.000 | No |
| 1011 | 73.71 | 4.25 | 1.36 | 2.88 | 0.57 | 0.231 | 1.68 | 0.137 | 0.82 | 1.10 | 2.000 | No |
| 1012 | 73.77 | 4.25 | 1.37 | 2.89 | 0.57 | 0.231 | 1.68 | 0.137 | 0.82 | 1.10 | 2.000 | No |
| 1013 | 73.86 | 4.26 | 1.37 | 2.89 | 0.57 | 0.230 | 1.68 | 0.137 | 0.82 | 1.10 | 2.000 | No |
| 1014 | 73.96 | 4.26 | 1.37 | 2.89 | 0.57 | 0.230 | 1.68 | 0.137 | 0.82 | 1.10 | 2.000 | No |
| 1015 | 74.06 | 4.27 | 1.37 | 2.89 | 0.57 | 0.230 | 1.68 | 0.137 | 0.82 | 1.10 | 2.000 | No |
| 1016 | 74.13 | 4.27 | 1.38 | 2.90 | 0.57 | 0.230 | 1.68 | 0.137 | 0.82 | 1.10 | 2.000 | No |
| 1017 | 74.24 | 4.28 | 1.38 | 2.90 | 0.57 | 0.230 | 1.68 | 0.137 | 0.82 | 1.10 | 2.000 | No |
| 1018 | 74.34 | 4.28 | 1.38 | 2.90 | 0.57 | 0.230 | 1.68 | 0.137 | 0.82 | 1.10 | 2.000 | No |
| 1019 | 74.44 | 4.29 | 1.39 | 2.90 | 0.57 | 0.230 | 1.68 | 0.137 | 0.82 | 1.10 | 2.000 | No |
| 1020 | 74.58 | 4.30 | 1.39 | 2.91 | 0.57 | 0.230 | 1.68 | 0.137 | 0.82 | 1.10 | 2.000 | No |
| 1021 | 74.68 | 4.30 | 1.39 | 2.91 | 0.57 | 0.230 | 1.68 | 0.137 | 0.82 | 1.10 | 2.000 | No |
| 1022 | 74.80 | 4.31 | 1.40 | 2.91 | 0.57 | 0.230 | 1.68 | 0.137 | 0.82 | 1.10 | 2.000 | No |
| 1023 | 74.92 | 4.32 | 1.40 | 2.91 | 0.57 | 0.230 | 1.68 | 0.136 | 0.82 | 1.10 | 2.000 | No |
| 1024 | 75.07 | 4.32 | 1.41 | 2.92 | 0.57 | 0.230 | 1.68 | 0.136 | 0.82 | 1.10 | 2.000 | No |
| 1025 | 75.08 | 4.32 | 1.41 | 2.92 | 0.57 | 0.230 | 1.68 | 0.136 | 0.82 | 1.10 | 2.000 | No |
| 1026 | 75.11 | 4.33 | 1.41 | 2.92 | 0.57 | 0.230 | 1.68 | 0.136 | 0.82 | 1.10 | 2.000 | No |
| 1027 | 75.16 | 4.33 | 1.41 | 2.92 | 0.57 | 0.229 | 1.68 | 0.136 | 0.82 | 1.10 | 2.000 | No |
| 1028 | 75.25 | 4.33 | 1.41 | 2.92 | 0.57 | 0.229 | 1.68 | 0.136 | 0.82 | 1.10 | 2.000 | No |
| 1029 | 75.32 | 4.34 | 1.41 | 2.92 | 0.57 | 0.229 | 1.68 | 0.136 | 0.82 | 1.10 | 2.000 | No |
| 1030 | 75.40 | 4.34 | 1.42 | 2.93 | 0.57 | 0.229 | 1.68 | 0.136 | 0.82 | 1.10 | 2.000 | No |
| 1031 | 75.50 | 4.35 | 1.42 | 2.93 | 0.57 | 0.229 | 1.68 | 0.136 | 0.82 | 1.10 | 2.000 | No |
| 1032 | 75.59 | 4.35 | 1.42 | 2.93 | 0.57 | 0.229 | 1.68 | 0.136 | 0.82 | 1.10 | 2.000 | No |
| 1033 | 75.69 | 4.36 | 1.43 | 2.93 | 0.56 | 0.229 | 1.68 | 0.136 | 0.82 | 1.10 | 2.000 | No |
| 1034 | 75.78 | 4.36 | 1.43 | 2.93 | 0.56 | 0.229 | 1.68 | 0.136 | 0.82 | 1.10 | 2.000 | No |
| 1035 | 75.88 | 4.37 | 1.43 | 2.94 | 0.56 | 0.229 | 1.68 | 0.136 | 0.82 | 1.10 | 2.000 | No |
| 1036 | 75.96 | 4.37 | 1.43 | 2.94 | 0.56 | 0.229 | 1.68 | 0.136 | 0.82 | 1.10 | 2.000 | No |
| 1037 | 76.05 | 4.38 | 1.44 | 2.94 | 0.56 | 0.229 | 1.68 | 0.136 | 0.82 | 1.10 | 2.000 | No |
| 1038 | 76.14 | 4.38 | 1.44 | 2.94 | 0.56 | 0.229 | 1.68 | 0.136 | 0.81 | 1.10 | 2.000 | No |
| 1039 | 76.26 | 4.39 | 1.44 | 2.95 | 0.56 | 0.229 | 1.68 | 0.136 | 0.81 | 1.10 | 2.000 | No |
| 1040 | 76.36 | 4.39 | 1.45 | 2.95 | 0.56 | 0.229 | 1.68 | 0.136 | 0.81 | 1.10 | 2.000 | No |
| 1041 | 76.41 | 4.40 | 1.45 | 2.95 | 0.56 | 0.229 | 1.68 | 0.136 | 0.81 | 1.10 | 2.000 | No |
| 1042 | 76.51 | 4.40 | 1.45 | 2.95 | 0.56 | 0.229 | 1.68 | 0.136 | 0.81 | 1.10 | 2.000 | No |
| 1043 | 76.65 | 4.41 | 1.46 | 2.95 | 0.56 | 0.229 | 1.68 | 0.136 | 0.81 | 1.10 | 2.000 | No |
| 1044 | 76.72 | 4.41 | 1.46 | 2.96 | 0.56 | 0.228 | 1.68 | 0.136 | 0.81 | 1.10 | 2.000 | No |
| 1045 | 76.79 | 4.42 | 1.46 | 2.96 | 0.56 | 0.228 | 1.68 | 0.136 | 0.81 | 1.10 | 2.000 | No |
| 1046 | 76.89 | 4.42 | 1.46 | 2.96 | 0.56 | 0.228 | 1.68 | 0.136 | 0.81 | 1.10 | 2.000 | No |
| 1047 | 76.98 | 4.43 | 1.47 | 2.96 | 0.56 | 0.228 | 1.68 | 0.136 | 0.81 | 1.10 | 2.000 | No |
| 1048 | 77.08 | 4.43 | 1.47 | 2.96 | 0.56 | 0.228 | 1.68 | 0.136 | 0.81 | 1.10 | 2.000 | No |
| 1049 | 77.18 | 4.44 | 1.47 | 2.97 | 0.56 | 0.228 | 1.68 | 0.136 | 0.81 | 1.10 | 2.000 | No |
| 1050 | 77.28 | 4.44 | 1.48 | 2.97 | 0.56 | 0.228 | 1.68 | 0.136 | 0.81 | 1.10 | 2.000 | No |
| 1051 | 77.37 | 4.45 | 1.48 | 2.97 | 0.56 | 0.228 | 1.68 | 0.136 | 0.81 | 1.10 | 2.000 | No |
| 1052 | 77.42 | 4.45 | 1.48 | 2.97 | 0.56 | 0.228 | 1.68 | 0.136 | 0.81 | 1.10 | 2.000 | No |
| 1053 | 77.42 | 4.45 | 1.48 | 2.97 | 0.56 | 0.228 | 1.68 | 0.136 | 0.81 | 1.10 | 2.000 | No |
| 1054 | 77.44 | 4.45 | 1.48 | 2.97 | 0.56 | 0.228 | 1.68 | 0.136 | 0.81 | 1.10 | 2.000 | No |
| 1055 | 77.48 | 4.46 | 1.48 | 2.98 | 0.56 | 0.228 | 1.68 | 0.136 | 0.81 | 1.10 | 2.000 | No |
| 1056 | 77.52 | 4.46 | 1.48 | 2.98 | 0.56 | 0.228 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1057 | 77.54 | 4.46 | 1.48 | 2.98 | 0.56 | 0.228 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | No |
| 1058 | 77.57 | 4.46 | 1.48 | 2.98 | 0.56 | 0.228 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | No |
| 1059 | 77.62 | 4.47 | 1.49 | 2.98 | 0.56 | 0.228 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | No |
| 1060 | 77.65 | 4.47 | 1.49 | 2.98 | 0.56 | 0.228 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | No |
| 1061 | 77.67 | 4.47 | 1.49 | 2.98 | 0.56 | 0.228 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | No |
| 1062 | 77.71 | 4.47 | 1.49 | 2.98 | 0.56 | 0.228 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | No |
| 1063 | 77.71 | 4.47 | 1.49 | 2.98 | 0.56 | 0.228 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | No |
| 1064 | 77.76 | 4.47 | 1.49 | 2.98 | 0.56 | 0.228 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | No |
| 1065 | 77.81 | 4.48 | 1.49 | 2.99 | 0.56 | 0.228 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | No |
| 1066 | 77.90 | 4.48 | 1.49 | 2.99 | 0.56 | 0.228 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | No |
| 1067 | 77.95 | 4.49 | 1.50 | 2.99 | 0.56 | 0.228 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | No |
| 1068 | 78.01 | 4.49 | 1.50 | 2.99 | 0.56 | 0.228 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | No |
| 1069 | 78.10 | 4.49 | 1.50 | 2.99 | 0.56 | 0.228 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | No |
| 1070 | 78.16 | 4.50 | 1.50 | 3.00 | 0.55 | 0.227 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | No |
| 1071 | 78.24 | 4.50 | 1.51 | 3.00 | 0.55 | 0.227 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | Yes |
| 1072 | 78.29 | 4.51 | 1.51 | 3.00 | 0.55 | 0.227 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | Yes |
| 1073 | 78.39 | 4.51 | 1.51 | 3.00 | 0.55 | 0.227 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | Yes |
| 1074 | 78.47 | 4.52 | 1.51 | 3.00 | 0.55 | 0.227 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | Yes |
| 1075 | 78.53 | 4.52 | 1.51 | 3.01 | 0.55 | 0.227 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | Yes |
| 1076 | 78.62 | 4.53 | 1.52 | 3.01 | 0.55 | 0.227 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | Yes |
| 1077 | 78.68 | 4.53 | 1.52 | 3.01 | 0.55 | 0.227 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | Yes |
| 1078 | 78.69 | 4.53 | 1.52 | 3.01 | 0.55 | 0.227 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | Yes |
| 1079 | 78.78 | 4.54 | 1.52 | 3.01 | 0.55 | 0.227 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | No |
| 1080 | 78.81 | 4.54 | 1.52 | 3.02 | 0.55 | 0.227 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | No |
| 1081 | 78.92 | 4.55 | 1.53 | 3.02 | 0.55 | 0.227 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | No |
| 1082 | 79.03 | 4.55 | 1.53 | 3.02 | 0.55 | 0.227 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | No |
| 1083 | 79.16 | 4.56 | 1.53 | 3.03 | 0.55 | 0.227 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | Yes |
| 1084 | 79.26 | 4.57 | 1.54 | 3.03 | 0.55 | 0.227 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | Yes |
| 1085 | 79.35 | 4.57 | 1.54 | 3.03 | 0.55 | 0.227 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | Yes |
| 1086 | 79.45 | 4.58 | 1.54 | 3.04 | 0.55 | 0.227 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | Yes |
| 1087 | 79.54 | 4.58 | 1.55 | 3.04 | 0.55 | 0.226 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | No |
| 1088 | 79.64 | 4.59 | 1.55 | 3.04 | 0.55 | 0.226 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | No |
| 1089 | 79.74 | 4.60 | 1.55 | 3.05 | 0.55 | 0.226 | 1.68 | 0.135 | 0.81 | 1.10 | 2.000 | No |
| 1090 | 79.88 | 4.61 | 1.56 | 3.05 | 0.55 | 0.226 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | No |
| 1091 | 79.98 | 4.61 | 1.56 | 3.05 | 0.55 | 0.226 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | No |
| 1092 | 80.12 | 4.62 | 1.56 | 3.06 | 0.55 | 0.226 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | No |
| 1093 | 80.22 | 4.63 | 1.57 | 3.06 | 0.55 | 0.226 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | No |
| 1094 | 80.36 | 4.64 | 1.57 | 3.07 | 0.55 | 0.226 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | No |
| 1095 | 80.46 | 4.64 | 1.57 | 3.07 | 0.55 | 0.226 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | No |
| 1096 | 80.60 | 4.65 | 1.58 | 3.07 | 0.55 | 0.226 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | No |
| 1097 | 80.70 | 4.66 | 1.58 | 3.08 | 0.55 | 0.226 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | No |
| 1098 | 80.83 | 4.67 | 1.59 | 3.08 | 0.55 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | Yes |
| 1099 | 80.94 | 4.67 | 1.59 | 3.09 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | Yes |
| 1100 | 81.01 | 4.68 | 1.59 | 3.09 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | Yes |
| 1101 | 81.04 | 4.68 | 1.59 | 3.09 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | Yes |
| 1102 | 81.09 | 4.68 | 1.59 | 3.09 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | Yes |
| 1103 | 81.13 | 4.69 | 1.60 | 3.09 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | Yes |
| 1104 | 81.18 | 4.69 | 1.60 | 3.09 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1105 | 81.23 | 4.69 | 1.60 | 3.09 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | Yes |
| 1106 | 81.28 | 4.70 | 1.60 | 3.10 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | Yes |
| 1107 | 81.33 | 4.70 | 1.60 | 3.10 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | Yes |
| 1108 | 81.37 | 4.70 | 1.60 | 3.10 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | Yes |
| 1109 | 81.42 | 4.70 | 1.60 | 3.10 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | Yes |
| 1110 | 81.47 | 4.71 | 1.61 | 3.10 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | Yes |
| 1111 | 81.52 | 4.71 | 1.61 | 3.10 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | Yes |
| 1112 | 81.56 | 4.71 | 1.61 | 3.10 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | Yes |
| 1113 | 81.61 | 4.72 | 1.61 | 3.11 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | No |
| 1114 | 81.64 | 4.72 | 1.61 | 3.11 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | No |
| 1115 | 81.70 | 4.72 | 1.61 | 3.11 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | No |
| 1116 | 81.75 | 4.73 | 1.61 | 3.11 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | No |
| 1117 | 81.79 | 4.73 | 1.62 | 3.11 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | No |
| 1118 | 81.82 | 4.73 | 1.62 | 3.11 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | No |
| 1119 | 81.86 | 4.73 | 1.62 | 3.11 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | No |
| 1120 | 81.91 | 4.74 | 1.62 | 3.12 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | No |
| 1121 | 81.95 | 4.74 | 1.62 | 3.12 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | No |
| 1122 | 82.00 | 4.74 | 1.62 | 3.12 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | No |
| 1123 | 82.09 | 4.75 | 1.63 | 3.12 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | No |
| 1124 | 82.15 | 4.75 | 1.63 | 3.12 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | No |
| 1125 | 82.19 | 4.75 | 1.63 | 3.12 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | No |
| 1126 | 82.26 | 4.76 | 1.63 | 3.13 | 0.54 | 0.225 | 1.68 | 0.134 | 0.81 | 1.10 | 2.000 | No |
| 1127 | 82.34 | 4.76 | 1.63 | 3.13 | 0.54 | 0.225 | 1.68 | 0.133 | 0.81 | 1.10 | 2.000 | No |
| 1128 | 82.39 | 4.76 | 1.63 | 3.13 | 0.54 | 0.225 | 1.68 | 0.133 | 0.81 | 1.10 | 2.000 | No |
| 1129 | 82.48 | 4.77 | 1.64 | 3.13 | 0.54 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1130 | 82.58 | 4.77 | 1.64 | 3.13 | 0.54 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1131 | 82.62 | 4.78 | 1.64 | 3.13 | 0.54 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1132 | 82.70 | 4.78 | 1.64 | 3.14 | 0.54 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1133 | 82.77 | 4.78 | 1.65 | 3.14 | 0.54 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1134 | 82.87 | 4.79 | 1.65 | 3.14 | 0.54 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1135 | 82.96 | 4.80 | 1.65 | 3.14 | 0.54 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1136 | 83.06 | 4.80 | 1.66 | 3.15 | 0.54 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1137 | 83.16 | 4.81 | 1.66 | 3.15 | 0.54 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1138 | 83.25 | 4.81 | 1.66 | 3.15 | 0.54 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1139 | 83.34 | 4.82 | 1.66 | 3.15 | 0.54 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1140 | 83.44 | 4.82 | 1.67 | 3.15 | 0.54 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1141 | 83.54 | 4.83 | 1.67 | 3.16 | 0.54 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1142 | 83.64 | 4.83 | 1.67 | 3.16 | 0.54 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1143 | 83.73 | 4.84 | 1.68 | 3.16 | 0.54 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1144 | 83.83 | 4.84 | 1.68 | 3.16 | 0.54 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1145 | 83.85 | 4.85 | 1.68 | 3.17 | 0.54 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1146 | 83.89 | 4.85 | 1.68 | 3.17 | 0.54 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1147 | 83.94 | 4.85 | 1.68 | 3.17 | 0.54 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1148 | 84.04 | 4.86 | 1.69 | 3.17 | 0.54 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1149 | 84.09 | 4.86 | 1.69 | 3.17 | 0.54 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1150 | 84.13 | 4.86 | 1.69 | 3.17 | 0.53 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1151 | 84.18 | 4.87 | 1.69 | 3.17 | 0.53 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1152 | 84.25 | 4.87 | 1.69 | 3.18 | 0.53 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1153 | 84.33 | 4.87 | 1.69 | 3.18 | 0.53 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1154 | 84.37 | 4.88 | 1.70 | 3.18 | 0.53 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1155 | 84.46 | 4.88 | 1.70 | 3.18 | 0.53 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1156 | 84.52 | 4.89 | 1.70 | 3.18 | 0.53 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1157 | 84.57 | 4.89 | 1.70 | 3.19 | 0.53 | 0.224 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1158 | 84.67 | 4.89 | 1.71 | 3.19 | 0.53 | 0.223 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1159 | 84.71 | 4.90 | 1.71 | 3.19 | 0.53 | 0.223 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1160 | 84.81 | 4.90 | 1.71 | 3.19 | 0.53 | 0.223 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1161 | 84.86 | 4.91 | 1.71 | 3.19 | 0.53 | 0.223 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1162 | 84.91 | 4.91 | 1.71 | 3.20 | 0.53 | 0.223 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1163 | 85.00 | 4.91 | 1.72 | 3.20 | 0.53 | 0.223 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1164 | 85.05 | 4.92 | 1.72 | 3.20 | 0.53 | 0.223 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1165 | 85.15 | 4.92 | 1.72 | 3.20 | 0.53 | 0.223 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1166 | 85.19 | 4.93 | 1.72 | 3.20 | 0.53 | 0.223 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1167 | 85.29 | 4.93 | 1.73 | 3.21 | 0.53 | 0.223 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1168 | 85.35 | 4.94 | 1.73 | 3.21 | 0.53 | 0.223 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1169 | 85.42 | 4.94 | 1.73 | 3.21 | 0.53 | 0.223 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1170 | 85.48 | 4.94 | 1.73 | 3.21 | 0.53 | 0.223 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1171 | 85.55 | 4.95 | 1.73 | 3.21 | 0.53 | 0.223 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1172 | 85.63 | 4.95 | 1.74 | 3.22 | 0.53 | 0.223 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1173 | 85.68 | 4.95 | 1.74 | 3.22 | 0.53 | 0.223 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1174 | 85.77 | 4.96 | 1.74 | 3.22 | 0.53 | 0.223 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1175 | 85.82 | 4.96 | 1.74 | 3.22 | 0.53 | 0.223 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1176 | 85.89 | 4.97 | 1.74 | 3.22 | 0.53 | 0.223 | 1.68 | 0.133 | 0.80 | 1.10 | 2.000 | No |
| 1177 | 85.96 | 4.97 | 1.75 | 3.22 | 0.53 | 0.223 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1178 | 86.03 | 4.97 | 1.75 | 3.23 | 0.53 | 0.223 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1179 | 86.11 | 4.98 | 1.75 | 3.23 | 0.53 | 0.223 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1180 | 86.16 | 4.98 | 1.75 | 3.23 | 0.53 | 0.223 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1181 | 86.25 | 4.99 | 1.76 | 3.23 | 0.53 | 0.223 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1182 | 86.36 | 4.99 | 1.76 | 3.23 | 0.53 | 0.223 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1183 | 86.50 | 5.00 | 1.76 | 3.24 | 0.53 | 0.223 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1184 | 86.51 | 5.00 | 1.76 | 3.24 | 0.53 | 0.223 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1185 | 86.52 | 5.00 | 1.76 | 3.24 | 0.53 | 0.223 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1186 | 86.57 | 5.01 | 1.76 | 3.24 | 0.53 | 0.223 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1187 | 86.65 | 5.01 | 1.77 | 3.24 | 0.53 | 0.223 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1188 | 86.71 | 5.01 | 1.77 | 3.24 | 0.53 | 0.223 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1189 | 86.80 | 5.02 | 1.77 | 3.25 | 0.53 | 0.223 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1190 | 86.90 | 5.02 | 1.78 | 3.25 | 0.53 | 0.223 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1191 | 86.99 | 5.03 | 1.78 | 3.25 | 0.53 | 0.223 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1192 | 87.04 | 5.03 | 1.78 | 3.25 | 0.53 | 0.223 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1193 | 87.14 | 5.04 | 1.78 | 3.25 | 0.53 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1194 | 87.19 | 5.04 | 1.78 | 3.26 | 0.53 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1195 | 87.28 | 5.04 | 1.79 | 3.26 | 0.53 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1196 | 87.38 | 5.05 | 1.79 | 3.26 | 0.53 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1197 | 87.43 | 5.05 | 1.79 | 3.26 | 0.53 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1198 | 87.52 | 5.06 | 1.79 | 3.26 | 0.53 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1199 | 87.61 | 5.06 | 1.80 | 3.26 | 0.53 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1200 | 87.66 | 5.07 | 1.80 | 3.27 | 0.53 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1201 | 87.76 | 5.07 | 1.80 | 3.27 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1202 | 87.84 | 5.07 | 1.80 | 3.27 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1203 | 87.91 | 5.08 | 1.81 | 3.27 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1204 | 88.00 | 5.08 | 1.81 | 3.27 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1205 | 88.11 | 5.09 | 1.81 | 3.28 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1206 | 88.19 | 5.09 | 1.82 | 3.28 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1207 | 88.25 | 5.10 | 1.82 | 3.28 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1208 | 88.34 | 5.10 | 1.82 | 3.28 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1209 | 88.44 | 5.11 | 1.82 | 3.28 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1210 | 88.54 | 5.11 | 1.83 | 3.29 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1211 | 88.64 | 5.12 | 1.83 | 3.29 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1212 | 88.72 | 5.12 | 1.83 | 3.29 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1213 | 88.82 | 5.13 | 1.84 | 3.29 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1214 | 88.91 | 5.13 | 1.84 | 3.29 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1215 | 89.01 | 5.14 | 1.84 | 3.30 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1216 | 89.10 | 5.14 | 1.84 | 3.30 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1217 | 89.19 | 5.15 | 1.85 | 3.30 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1218 | 89.30 | 5.15 | 1.85 | 3.30 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1219 | 89.39 | 5.16 | 1.85 | 3.31 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1220 | 89.49 | 5.16 | 1.86 | 3.31 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1221 | 89.59 | 5.17 | 1.86 | 3.31 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1222 | 89.69 | 5.17 | 1.86 | 3.31 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1223 | 89.73 | 5.18 | 1.86 | 3.31 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1224 | 89.78 | 5.18 | 1.87 | 3.31 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1225 | 89.83 | 5.18 | 1.87 | 3.32 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1226 | 89.88 | 5.19 | 1.87 | 3.32 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1227 | 89.93 | 5.19 | 1.87 | 3.32 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1228 | 90.00 | 5.19 | 1.87 | 3.32 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1229 | 90.07 | 5.20 | 1.87 | 3.32 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1230 | 90.12 | 5.20 | 1.88 | 3.32 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1231 | 90.22 | 5.20 | 1.88 | 3.33 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1232 | 90.27 | 5.21 | 1.88 | 3.33 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1233 | 90.36 | 5.21 | 1.88 | 3.33 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1234 | 90.46 | 5.22 | 1.89 | 3.33 | 0.52 | 0.222 | 1.68 | 0.132 | 0.80 | 1.10 | 2.000 | No |
| 1235 | 90.50 | 5.22 | 1.89 | 3.33 | 0.52 | 0.222 | 1.68 | 0.132 | 0.79 | 1.10 | 2.000 | No |
| 1236 | 90.61 | 5.23 | 1.89 | 3.34 | 0.52 | 0.222 | 1.68 | 0.132 | 0.79 | 1.10 | 2.000 | No |
| 1237 | 90.66 | 5.23 | 1.89 | 3.34 | 0.52 | 0.221 | 1.68 | 0.132 | 0.79 | 1.10 | 2.000 | No |
| 1238 | 90.75 | 5.23 | 1.90 | 3.34 | 0.52 | 0.221 | 1.68 | 0.132 | 0.79 | 1.10 | 2.000 | No |
| 1239 | 90.84 | 5.24 | 1.90 | 3.34 | 0.52 | 0.221 | 1.68 | 0.132 | 0.79 | 1.10 | 2.000 | No |
| 1240 | 90.89 | 5.24 | 1.90 | 3.34 | 0.52 | 0.221 | 1.68 | 0.132 | 0.79 | 1.10 | 2.000 | No |
| 1241 | 90.99 | 5.25 | 1.90 | 3.35 | 0.52 | 0.221 | 1.68 | 0.132 | 0.79 | 1.10 | 2.000 | No |
| 1242 | 91.04 | 5.25 | 1.90 | 3.35 | 0.52 | 0.221 | 1.68 | 0.132 | 0.79 | 1.10 | 2.000 | No |
| 1243 | 91.14 | 5.26 | 1.91 | 3.35 | 0.52 | 0.221 | 1.68 | 0.132 | 0.79 | 1.10 | 2.000 | No |
| 1244 | 91.22 | 5.26 | 1.91 | 3.35 | 0.52 | 0.221 | 1.68 | 0.132 | 0.79 | 1.10 | 2.000 | No |
| 1245 | 91.28 | 5.26 | 1.91 | 3.35 | 0.52 | 0.221 | 1.68 | 0.132 | 0.79 | 1.10 | 2.000 | No |
| 1246 | 91.37 | 5.27 | 1.91 | 3.35 | 0.52 | 0.221 | 1.68 | 0.132 | 0.79 | 1.10 | 2.000 | No |
| 1247 | 91.47 | 5.28 | 1.92 | 3.36 | 0.52 | 0.221 | 1.68 | 0.132 | 0.79 | 1.10 | 2.000 | No |
| 1248 | 91.61 | 5.28 | 1.92 | 3.36 | 0.52 | 0.221 | 1.68 | 0.132 | 0.79 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1249 | 91.71 | 5.29 | 1.93 | 3.36 | 0.52 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1250 | 91.81 | 5.29 | 1.93 | 3.37 | 0.52 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1251 | 91.87 | 5.30 | 1.93 | 3.37 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1252 | 92.00 | 5.30 | 1.93 | 3.37 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1253 | 92.10 | 5.31 | 1.94 | 3.37 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1254 | 92.20 | 5.32 | 1.94 | 3.37 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1255 | 92.33 | 5.32 | 1.94 | 3.38 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1256 | 92.38 | 5.33 | 1.95 | 3.38 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1257 | 92.43 | 5.33 | 1.95 | 3.38 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1258 | 92.48 | 5.33 | 1.95 | 3.38 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1259 | 92.56 | 5.33 | 1.95 | 3.38 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1260 | 92.63 | 5.34 | 1.95 | 3.38 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1261 | 92.67 | 5.34 | 1.96 | 3.39 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1262 | 92.72 | 5.34 | 1.96 | 3.39 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1263 | 92.77 | 5.35 | 1.96 | 3.39 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1264 | 92.86 | 5.35 | 1.96 | 3.39 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1265 | 92.92 | 5.35 | 1.96 | 3.39 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1266 | 92.97 | 5.36 | 1.96 | 3.39 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1267 | 93.05 | 5.36 | 1.97 | 3.39 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1268 | 93.10 | 5.37 | 1.97 | 3.40 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1269 | 93.16 | 5.37 | 1.97 | 3.40 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1270 | 93.25 | 5.37 | 1.97 | 3.40 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1271 | 93.35 | 5.38 | 1.98 | 3.40 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1272 | 93.40 | 5.38 | 1.98 | 3.40 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1273 | 93.49 | 5.39 | 1.98 | 3.41 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1274 | 93.56 | 5.39 | 1.98 | 3.41 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1275 | 93.64 | 5.40 | 1.99 | 3.41 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1276 | 93.73 | 5.40 | 1.99 | 3.41 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1277 | 93.83 | 5.41 | 1.99 | 3.41 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1278 | 93.88 | 5.41 | 1.99 | 3.42 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1279 | 93.97 | 5.41 | 2.00 | 3.42 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1280 | 94.07 | 5.42 | 2.00 | 3.42 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1281 | 94.17 | 5.43 | 2.00 | 3.42 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1282 | 94.26 | 5.43 | 2.01 | 3.43 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1283 | 94.36 | 5.44 | 2.01 | 3.43 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1284 | 94.45 | 5.44 | 2.01 | 3.43 | 0.51 | 0.221 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1285 | 94.55 | 5.45 | 2.01 | 3.43 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1286 | 94.64 | 5.45 | 2.02 | 3.44 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1287 | 94.72 | 5.46 | 2.02 | 3.44 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1288 | 94.74 | 5.46 | 2.02 | 3.44 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1289 | 94.77 | 5.46 | 2.02 | 3.44 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1290 | 94.85 | 5.47 | 2.02 | 3.44 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1291 | 94.90 | 5.47 | 2.02 | 3.44 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1292 | 94.95 | 5.47 | 2.03 | 3.45 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1293 | 95.01 | 5.48 | 2.03 | 3.45 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1294 | 95.09 | 5.48 | 2.03 | 3.45 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1295 | 95.14 | 5.48 | 2.03 | 3.45 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1296 | 95.23 | 5.49 | 2.04 | 3.46 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1297 | 95.29 | 5.49 | 2.04 | 3.46 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1298 | 95.38 | 5.50 | 2.04 | 3.46 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1299 | 95.43 | 5.50 | 2.04 | 3.46 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1300 | 95.52 | 5.51 | 2.04 | 3.47 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1301 | 95.57 | 5.51 | 2.05 | 3.47 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1302 | 95.67 | 5.52 | 2.05 | 3.47 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1303 | 95.77 | 5.53 | 2.05 | 3.47 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1304 | 95.86 | 5.53 | 2.05 | 3.48 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1305 | 95.95 | 5.54 | 2.06 | 3.48 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1306 | 96.03 | 5.54 | 2.06 | 3.48 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1307 | 96.11 | 5.55 | 2.06 | 3.48 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1308 | 96.20 | 5.55 | 2.07 | 3.49 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | No |
| 1309 | 96.30 | 5.56 | 2.07 | 3.49 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | Yes |
| 1310 | 96.39 | 5.57 | 2.07 | 3.49 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | Yes |
| 1311 | 96.50 | 5.57 | 2.07 | 3.50 | 0.51 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | Yes |
| 1312 | 96.59 | 5.58 | 2.08 | 3.50 | 0.50 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | Yes |
| 1313 | 96.69 | 5.58 | 2.08 | 3.50 | 0.50 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | Yes |
| 1314 | 96.78 | 5.59 | 2.08 | 3.51 | 0.50 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | Yes |
| 1315 | 96.87 | 5.60 | 2.09 | 3.51 | 0.50 | 0.220 | 1.68 | 0.131 | 0.79 | 1.10 | 2.000 | Yes |
| 1316 | 96.98 | 5.60 | 2.09 | 3.51 | 0.50 | 0.220 | 1.68 | 0.130 | 0.79 | 1.10 | 2.000 | No |
| 1317 | 97.02 | 5.61 | 2.09 | 3.51 | 0.50 | 0.220 | 1.68 | 0.130 | 0.79 | 1.10 | 2.000 | No |
| 1318 | 97.06 | 5.61 | 2.09 | 3.52 | 0.50 | 0.219 | 1.68 | 0.130 | 0.79 | 1.10 | 2.000 | No |
| 1319 | 97.12 | 5.61 | 2.09 | 3.52 | 0.50 | 0.219 | 1.68 | 0.130 | 0.79 | 1.10 | 2.000 | No |
| 1320 | 97.16 | 5.62 | 2.10 | 3.52 | 0.50 | 0.219 | 1.68 | 0.130 | 0.79 | 1.10 | 2.000 | No |
| 1321 | 97.21 | 5.62 | 2.10 | 3.52 | 0.50 | 0.219 | 1.68 | 0.130 | 0.79 | 1.10 | 2.000 | No |
| 1322 | 97.27 | 5.62 | 2.10 | 3.52 | 0.50 | 0.219 | 1.68 | 0.130 | 0.79 | 1.10 | 2.000 | No |
| 1323 | 97.33 | 5.63 | 2.10 | 3.53 | 0.50 | 0.219 | 1.68 | 0.130 | 0.79 | 1.10 | 2.000 | No |
| 1324 | 97.40 | 5.63 | 2.10 | 3.53 | 0.50 | 0.219 | 1.68 | 0.130 | 0.79 | 1.10 | 2.000 | No |
| 1325 | 97.45 | 5.63 | 2.10 | 3.53 | 0.50 | 0.219 | 1.68 | 0.130 | 0.79 | 1.10 | 2.000 | Yes |
| 1326 | 97.50 | 5.64 | 2.11 | 3.53 | 0.50 | 0.219 | 1.68 | 0.130 | 0.79 | 1.10 | 2.000 | Yes |
| 1327 | 97.58 | 5.64 | 2.11 | 3.53 | 0.50 | 0.219 | 1.68 | 0.130 | 0.79 | 1.10 | 2.000 | Yes |
| 1328 | 97.65 | 5.65 | 2.11 | 3.54 | 0.50 | 0.219 | 1.68 | 0.130 | 0.79 | 1.10 | 2.000 | Yes |
| 1329 | 97.69 | 5.65 | 2.11 | 3.54 | 0.50 | 0.219 | 1.68 | 0.130 | 0.79 | 1.10 | 2.000 | Yes |
| 1330 | 97.74 | 5.65 | 2.11 | 3.54 | 0.50 | 0.219 | 1.68 | 0.130 | 0.79 | 1.10 | 2.000 | Yes |
| 1331 | 97.81 | 5.66 | 2.12 | 3.54 | 0.50 | 0.219 | 1.68 | 0.130 | 0.79 | 1.10 | 2.000 | Yes |
| 1332 | 97.88 | 5.66 | 2.12 | 3.54 | 0.50 | 0.219 | 1.68 | 0.130 | 0.79 | 1.10 | 2.000 | Yes |
| 1333 | 97.93 | 5.67 | 2.12 | 3.55 | 0.50 | 0.219 | 1.68 | 0.130 | 0.79 | 1.10 | 2.000 | Yes |
| 1334 | 98.03 | 5.67 | 2.12 | 3.55 | 0.50 | 0.219 | 1.68 | 0.130 | 0.79 | 1.10 | 2.000 | Yes |
| 1335 | 98.15 | 5.68 | 2.13 | 3.55 | 0.50 | 0.219 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1336 | 98.21 | 5.68 | 2.13 | 3.56 | 0.50 | 0.219 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1337 | 98.32 | 5.69 | 2.13 | 3.56 | 0.50 | 0.219 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1338 | 98.42 | 5.70 | 2.13 | 3.56 | 0.50 | 0.219 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1339 | 98.47 | 5.70 | 2.14 | 3.56 | 0.50 | 0.219 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1340 | 98.57 | 5.71 | 2.14 | 3.57 | 0.50 | 0.219 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | No |
| 1341 | 98.70 | 5.71 | 2.14 | 3.57 | 0.50 | 0.219 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | No |
| 1342 | 98.78 | 5.72 | 2.15 | 3.57 | 0.50 | 0.219 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | No |
| 1343 | 98.85 | 5.72 | 2.15 | 3.58 | 0.50 | 0.219 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | No |
| 1344 | 98.86 | 5.72 | 2.15 | 3.58 | 0.50 | 0.219 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1345 | 98.92 | 5.73 | 2.15 | 3.58 | 0.50 | 0.219 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | No |
| 1346 | 98.98 | 5.73 | 2.15 | 3.58 | 0.50 | 0.219 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1347 | 99.03 | 5.74 | 2.15 | 3.58 | 0.50 | 0.219 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1348 | 99.11 | 5.74 | 2.16 | 3.58 | 0.50 | 0.219 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1349 | 99.18 | 5.74 | 2.16 | 3.59 | 0.50 | 0.219 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1350 | 99.23 | 5.75 | 2.16 | 3.59 | 0.50 | 0.219 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1351 | 99.32 | 5.75 | 2.16 | 3.59 | 0.50 | 0.219 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1352 | 99.37 | 5.76 | 2.16 | 3.59 | 0.50 | 0.219 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1353 | 99.45 | 5.76 | 2.17 | 3.60 | 0.50 | 0.219 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1354 | 99.56 | 5.77 | 2.17 | 3.60 | 0.50 | 0.219 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1355 | 99.64 | 5.77 | 2.17 | 3.60 | 0.50 | 0.218 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1356 | 99.71 | 5.78 | 2.17 | 3.60 | 0.50 | 0.218 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1357 | 99.75 | 5.78 | 2.18 | 3.61 | 0.50 | 0.218 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1358 | 99.90 | 5.79 | 2.18 | 3.61 | 0.50 | 0.218 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1359 | 99.95 | 5.80 | 2.18 | 3.61 | 0.50 | 0.218 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1360 | 100.04 | 5.80 | 2.19 | 3.62 | 0.50 | 0.218 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1361 | 100.14 | 5.81 | 2.19 | 3.62 | 0.50 | 0.218 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1362 | 100.14 | 5.81 | 2.19 | 3.62 | 0.50 | 0.218 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1363 | 100.15 | 5.81 | 2.19 | 3.62 | 0.50 | 0.218 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1364 | 100.19 | 5.81 | 2.19 | 3.62 | 0.50 | 0.218 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1365 | 100.21 | 5.81 | 2.19 | 3.62 | 0.50 | 0.218 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1366 | 100.24 | 5.81 | 2.19 | 3.62 | 0.50 | 0.218 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1367 | 100.28 | 5.82 | 2.19 | 3.62 | 0.50 | 0.218 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | Yes |
| 1368 | 100.31 | 5.82 | 2.19 | 3.63 | 0.50 | 0.218 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | No |
| 1369 | 100.33 | 5.82 | 2.19 | 3.63 | 0.50 | 0.218 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | No |
| 1370 | 100.38 | 5.82 | 2.20 | 3.63 | 0.50 | 0.218 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | No |
| 1371 | 100.39 | 5.82 | 2.20 | 3.63 | 0.50 | 0.218 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | No |
| 1372 | 100.43 | 5.82 | 2.20 | 3.63 | 0.50 | 0.218 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | No |
| 1373 | 100.48 | 5.83 | 2.20 | 3.63 | 0.50 | 0.218 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | No |
| 1374 | 100.53 | 5.83 | 2.20 | 3.63 | 0.50 | 0.218 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | No |
| 1375 | 100.57 | 5.83 | 2.20 | 3.63 | 0.50 | 0.218 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | No |
| 1376 | 100.60 | 5.83 | 2.20 | 3.63 | 0.50 | 0.218 | 1.68 | 0.130 | 0.78 | 1.10 | 2.000 | No |

**Abbreviations**

Depth: Depth from free surface, at which CPT was performed (ft)
$\sigma_v$: Total overburden pressure at test point (tsf)
$u_0$: Water pressure at test point (tsf)
$\sigma_v'$: Effective overburden pressure based on GWT during earthquake (tsf)
$r_d$: Nonlinear shear mass factor
CSR: Cyclic Stress Ratio
MSF: Magnitude Scaling Factor
$CSR_{eq}$: CSR adjusted for M=7.5
$K_\sigma$: Effective overburden stress factor
$CSR^*$: CSR fully adjusted

**:: Cyclic Resistance Ratio (CRR) calculation data ::**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.04 | 0.10 | 4.06 | 37.76 | 1.00 | 0.16 | 54.25 | 8.56 | 4.000 | No | Yes | 2.00 |
| 2 | 0.10 | 0.13 | 4.06 | 31.79 | 1.00 | 0.21 | 54.25 | 11.25 | 4.000 | No | Yes | 2.00 |
| 3 | 0.11 | 0.23 | 4.06 | 19.95 | 1.00 | 0.37 | 54.25 | 19.92 | 4.000 | No | Yes | 2.00 |
| 4 | 0.16 | 0.54 | 4.06 | 8.78 | 1.00 | 0.85 | 54.25 | 46.18 | 4.000 | No | Yes | 2.00 |
| 5 | 0.19 | 1.28 | 3.64 | 3.82 | 1.00 | 2.04 | 26.86 | 54.86 | 4.000 | No | Yes | 2.00 |
| 6 | 0.24 | 2.83 | 3.19 | 1.88 | 1.00 | 4.54 | 12.41 | 56.29 | 4.000 | No | Yes | 2.00 |
| 7 | 0.31 | 4.93 | 2.89 | 1.26 | 0.88 | 7.89 | 7.08 | 55.92 | 4.000 | No | Yes | 2.00 |
| 8 | 0.38 | 6.68 | 2.74 | 1.06 | 0.83 | 10.70 | 5.13 | 54.91 | 4.000 | No | Yes | 2.00 |
| 9 | 0.43 | 7.56 | 2.68 | 1.02 | 0.81 | 12.11 | 4.55 | 55.04 | 4.000 | No | Yes | 2.00 |
| 10 | 0.49 | 7.32 | 2.72 | 1.13 | 0.82 | 11.72 | 4.88 | 57.26 | 4.000 | No | Yes | 2.00 |
| 11 | 0.58 | 6.81 | 2.78 | 1.31 | 0.84 | 10.90 | 5.56 | 60.65 | 4.000 | No | Yes | 2.00 |
| 12 | 0.63 | 6.24 | 2.85 | 1.60 | 0.86 | 9.98 | 6.53 | 65.19 | 4.000 | No | Yes | 2.00 |
| 13 | 0.67 | 6.05 | 2.90 | 1.88 | 0.88 | 9.68 | 7.19 | 69.56 | 4.000 | No | Yes | 2.00 |
| 14 | 0.72 | 6.02 | 2.92 | 2.08 | 0.89 | 9.62 | 7.57 | 72.80 | 4.000 | Yes | Yes | 2.00 |
| 15 | 0.72 | 6.70 | 2.91 | 2.29 | 0.88 | 10.70 | 7.32 | 78.32 | 4.000 | Yes | Yes | 2.00 |
| 16 | 0.84 | 9.28 | 2.77 | 2.08 | 0.84 | 14.84 | 5.43 | 80.63 | 4.000 | Yes | Yes | 2.00 |
| 17 | 0.96 | 15.82 | 2.50 | 1.53 | 0.76 | 25.35 | 2.97 | 75.23 | 4.000 | Yes | No | 2.00 |
| 18 | 1.06 | 22.64 | 2.32 | 1.27 | 0.71 | 36.29 | 2.02 | 73.35 | 4.000 | Yes | No | 2.00 |
| 19 | 1.24 | 27.97 | 2.21 | 1.11 | 0.67 | 44.84 | 1.65 | 74.08 | 4.000 | Yes | No | 2.00 |
| 20 | 1.30 | 31.48 | 2.14 | 0.98 | 0.65 | 50.47 | 1.49 | 75.12 | 4.000 | Yes | No | 2.00 |
| 21 | 1.48 | 37.28 | 2.04 | 0.82 | 0.62 | 59.78 | 1.34 | 80.22 | 4.000 | Yes | No | 2.00 |
| 22 | 1.59 | 42.14 | 1.98 | 0.77 | 0.60 | 67.57 | 1.29 | 87.16 | 4.000 | Yes | No | 2.00 |
| 23 | 1.69 | 47.40 | 1.93 | 0.75 | 0.59 | 76.02 | 1.26 | 95.52 | 4.000 | Yes | No | 2.00 |
| 24 | 1.69 | 49.80 | 1.91 | 0.76 | 0.58 | 79.87 | 1.25 | 99.55 | 4.000 | Yes | No | 2.00 |
| 25 | 1.74 | 53.24 | 1.88 | 0.73 | 0.57 | 85.40 | 1.22 | 104.46 | 4.000 | Yes | No | 2.00 |
| 26 | 1.79 | 53.78 | 1.88 | 0.73 | 0.57 | 86.26 | 1.22 | 105.40 | 4.000 | No | No | 2.00 |
| 27 | 1.84 | 52.90 | 1.89 | 0.73 | 0.57 | 84.84 | 1.23 | 104.08 | 4.000 | No | No | 2.00 |
| 28 | 1.88 | 51.25 | 1.89 | 0.73 | 0.58 | 82.18 | 1.23 | 101.34 | 4.000 | No | No | 2.00 |
| 29 | 1.93 | 49.46 | 1.90 | 0.71 | 0.58 | 79.31 | 1.24 | 98.11 | 4.000 | No | No | 2.00 |
| 30 | 1.99 | 48.69 | 1.90 | 0.68 | 0.58 | 78.06 | 1.23 | 96.29 | 4.000 | No | No | 2.00 |
| 31 | 2.03 | 48.08 | 1.89 | 0.65 | 0.58 | 77.07 | 1.23 | 94.90 | 4.000 | No | No | 2.00 |
| 32 | 2.08 | 47.67 | 1.89 | 0.64 | 0.57 | 76.42 | 1.23 | 93.98 | 4.000 | No | No | 2.00 |
| 33 | 2.13 | 46.86 | 1.90 | 0.64 | 0.58 | 75.11 | 1.23 | 92.67 | 4.000 | No | No | 2.00 |
| 34 | 2.22 | 45.85 | 1.90 | 0.64 | 0.58 | 73.48 | 1.24 | 91.09 | 4.000 | No | No | 2.00 |
| 35 | 2.27 | 44.97 | 1.91 | 0.64 | 0.58 | 72.07 | 1.24 | 89.70 | 4.000 | No | No | 2.00 |
| 36 | 2.33 | 44.77 | 1.91 | 0.63 | 0.58 | 71.74 | 1.24 | 89.16 | 4.000 | No | No | 2.00 |
| 37 | 2.42 | 45.44 | 1.90 | 0.61 | 0.58 | 72.81 | 1.24 | 89.96 | 4.000 | No | No | 2.00 |
| 38 | 2.48 | 46.73 | 1.88 | 0.60 | 0.57 | 74.86 | 1.22 | 91.66 | 4.000 | No | No | 2.00 |
| 39 | 2.56 | 48.41 | 1.86 | 0.59 | 0.57 | 77.57 | 1.21 | 94.03 | 4.000 | No | No | 2.00 |
| 40 | 2.65 | 49.43 | 1.86 | 0.59 | 0.56 | 79.19 | 1.21 | 95.47 | 4.000 | No | No | 2.00 |
| 41 | 2.72 | 48.72 | 1.87 | 0.60 | 0.57 | 78.04 | 1.21 | 94.74 | 4.000 | No | No | 2.00 |
| 42 | 2.80 | 46.02 | 1.90 | 0.62 | 0.58 | 73.70 | 1.23 | 90.99 | 4.000 | No | No | 2.00 |
| 43 | 2.89 | 42.44 | 1.94 | 0.65 | 0.59 | 67.94 | 1.26 | 85.67 | 4.000 | No | No | 2.00 |
| 44 | 2.94 | 39.03 | 1.98 | 0.69 | 0.60 | 62.46 | 1.29 | 80.64 | 4.000 | No | No | 2.00 |
| 45 | 3.04 | 35.90 | 2.02 | 0.71 | 0.61 | 57.42 | 1.32 | 76.04 | 4.000 | No | No | 2.00 |
| 46 | 3.14 | 32.32 | 2.07 | 0.73 | 0.63 | 51.66 | 1.37 | 70.91 | 4.000 | No | No | 2.00 |
| 47 | 3.23 | 29.01 | 2.10 | 0.73 | 0.64 | 46.34 | 1.42 | 65.97 | 4.000 | No | No | 2.00 |
| 48 | 3.31 | 25.74 | 2.15 | 0.73 | 0.65 | 41.07 | 1.50 | 61.64 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 49 | 3.37 | 23.04 | 2.19 | 0.72 | 0.66 | 36.73 | 1.59 | 58.33 | 4.000 | No | No | 2.00 |
| 50 | 3.48 | 20.38 | 2.23 | 0.72 | 0.68 | 32.44 | 1.71 | 55.35 | 4.000 | No | No | 2.00 |
| 51 | 3.57 | 18.79 | 2.25 | 0.67 | 0.68 | 29.89 | 1.76 | 52.71 | 4.000 | No | No | 2.00 |
| 52 | 3.65 | 18.02 | 2.26 | 0.63 | 0.69 | 28.64 | 1.78 | 50.93 | 4.000 | No | No | 2.00 |
| 53 | 3.71 | 18.02 | 2.26 | 0.63 | 0.68 | 28.64 | 1.77 | 50.70 | 4.000 | No | No | 2.00 |
| 54 | 3.82 | 18.63 | 2.26 | 0.67 | 0.68 | 29.60 | 1.77 | 52.47 | 4.000 | No | No | 2.00 |
| 55 | 3.91 | 20.18 | 2.23 | 0.70 | 0.68 | 32.09 | 1.71 | 54.73 | 4.000 | No | No | 2.00 |
| 56 | 4.00 | 22.81 | 2.20 | 0.73 | 0.67 | 36.30 | 1.60 | 58.22 | 4.000 | No | No | 2.00 |
| 57 | 4.10 | 26.38 | 2.09 | 0.58 | 0.64 | 42.04 | 1.41 | 59.10 | 4.000 | No | No | 2.00 |
| 58 | 4.19 | 31.21 | 1.98 | 0.46 | 0.60 | 49.79 | 1.00 | 49.79 | 4.000 | No | No | 2.00 |
| 59 | 4.26 | 37.92 | 1.86 | 0.36 | 0.57 | 60.57 | 1.00 | 60.57 | 4.000 | No | No | 2.00 |
| 60 | 4.35 | 45.62 | 1.79 | 0.37 | 0.54 | 72.92 | 1.00 | 72.92 | 4.000 | No | No | 2.00 |
| 61 | 4.44 | 49.80 | 1.77 | 0.39 | 0.54 | 79.63 | 1.00 | 79.63 | 4.000 | No | No | 2.00 |
| 62 | 4.52 | 51.39 | 1.76 | 0.41 | 0.54 | 82.17 | 1.00 | 82.17 | 4.000 | No | No | 2.00 |
| 63 | 4.53 | 52.26 | 1.76 | 0.41 | 0.54 | 83.58 | 1.00 | 83.58 | 4.000 | No | No | 2.00 |
| 64 | 4.58 | 55.03 | 1.73 | 0.39 | 0.53 | 88.02 | 1.00 | 88.02 | 4.000 | No | No | 2.00 |
| 65 | 4.63 | 57.76 | 1.71 | 0.39 | 0.52 | 92.41 | 1.00 | 92.41 | 4.000 | No | No | 2.00 |
| 66 | 4.68 | 58.84 | 1.70 | 0.39 | 0.52 | 94.14 | 1.00 | 94.14 | 4.000 | No | No | 2.00 |
| 67 | 4.72 | 59.28 | 1.71 | 0.41 | 0.52 | 94.84 | 1.00 | 94.84 | 4.000 | No | No | 2.00 |
| 68 | 4.77 | 59.08 | 1.72 | 0.42 | 0.52 | 94.51 | 1.00 | 94.51 | 4.000 | No | No | 2.00 |
| 69 | 4.82 | 58.07 | 1.73 | 0.44 | 0.53 | 92.88 | 1.00 | 92.88 | 4.000 | No | No | 2.00 |
| 70 | 4.88 | 56.21 | 1.76 | 0.47 | 0.54 | 89.89 | 1.00 | 89.89 | 4.000 | No | No | 2.00 |
| 71 | 4.96 | 53.61 | 1.79 | 0.50 | 0.55 | 85.71 | 1.14 | 97.96 | 4.000 | No | No | 2.00 |
| 72 | 5.01 | 50.54 | 1.83 | 0.54 | 0.56 | 80.78 | 1.18 | 95.67 | 4.000 | No | No | 2.00 |
| 73 | 5.08 | 47.44 | 1.87 | 0.59 | 0.57 | 75.78 | 1.22 | 92.32 | 4.000 | No | No | 2.00 |
| 74 | 5.16 | 44.81 | 1.91 | 0.63 | 0.58 | 71.55 | 1.24 | 88.93 | 4.000 | No | No | 2.00 |
| 75 | 5.21 | 43.27 | 1.93 | 0.65 | 0.59 | 69.07 | 1.26 | 86.85 | 4.000 | No | No | 2.00 |
| 76 | 5.30 | 42.68 | 1.94 | 0.66 | 0.59 | 68.12 | 1.26 | 86.01 | 4.000 | No | No | 2.00 |
| 77 | 5.37 | 42.65 | 1.94 | 0.66 | 0.59 | 68.06 | 1.26 | 85.96 | 4.000 | No | No | 2.00 |
| 78 | 5.45 | 42.70 | 1.94 | 0.66 | 0.59 | 68.13 | 1.26 | 86.01 | 4.000 | No | No | 2.00 |
| 79 | 5.52 | 42.44 | 1.94 | 0.66 | 0.59 | 67.72 | 1.26 | 85.64 | 4.000 | No | No | 2.00 |
| 80 | 5.59 | 41.70 | 1.95 | 0.67 | 0.59 | 66.52 | 1.27 | 84.54 | 4.000 | No | No | 2.00 |
| 81 | 5.65 | 40.15 | 1.97 | 0.69 | 0.60 | 64.02 | 1.28 | 82.25 | 4.000 | No | No | 2.00 |
| 82 | 5.74 | 38.46 | 1.99 | 0.71 | 0.61 | 61.30 | 1.30 | 79.83 | 4.000 | No | No | 2.00 |
| 83 | 5.83 | 37.08 | 2.02 | 0.73 | 0.61 | 59.07 | 1.32 | 77.99 | 4.000 | No | No | 2.00 |
| 84 | 5.89 | 36.30 | 2.03 | 0.75 | 0.62 | 57.82 | 1.33 | 77.16 | 4.000 | No | No | 2.00 |
| 85 | 5.97 | 35.66 | 2.04 | 0.77 | 0.62 | 56.79 | 1.35 | 76.43 | 4.000 | No | No | 2.00 |
| 86 | 6.07 | 34.52 | 2.06 | 0.79 | 0.63 | 54.94 | 1.37 | 75.11 | 4.000 | No | No | 2.00 |
| 87 | 6.12 | 32.56 | 2.10 | 0.84 | 0.64 | 51.79 | 1.41 | 73.14 | 4.000 | No | No | 2.00 |
| 88 | 6.22 | 29.76 | 2.15 | 0.92 | 0.65 | 47.28 | 1.51 | 71.19 | 4.000 | No | No | 2.00 |
| 89 | 6.28 | 26.56 | 2.22 | 1.04 | 0.67 | 42.13 | 1.67 | 70.33 | 4.000 | No | No | 2.00 |
| 90 | 6.36 | 23.45 | 2.29 | 1.15 | 0.70 | 37.14 | 1.90 | 70.41 | 4.000 | No | No | 2.00 |
| 91 | 6.46 | 21.29 | 2.34 | 1.22 | 0.71 | 33.66 | 2.09 | 70.43 | 4.000 | No | No | 2.00 |
| 92 | 6.52 | 20.72 | 2.33 | 1.14 | 0.71 | 32.73 | 2.06 | 67.56 | 4.000 | No | No | 2.00 |
| 93 | 6.60 | 22.07 | 2.26 | 0.92 | 0.69 | 34.89 | 1.79 | 62.55 | 4.000 | No | No | 2.00 |
| 94 | 6.70 | 23.55 | 2.18 | 0.72 | 0.66 | 37.27 | 1.57 | 58.59 | 4.000 | No | No | 2.00 |
| 95 | 6.76 | 23.01 | 2.17 | 0.66 | 0.66 | 36.39 | 1.55 | 56.58 | 4.000 | Yes | No | 2.00 |
| 96 | 6.84 | 19.64 | 2.27 | 0.77 | 0.69 | 30.96 | 1.81 | 55.94 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97 | 6.94 | 14.91 | 2.44 | 1.05 | 0.74 | 23.37 | 2.60 | 60.83 | 4.000 | Yes | No | 2.00 |
| 98 | 7.03 | 10.86 | 2.63 | 1.42 | 0.80 | 16.85 | 4.02 | 67.75 | 4.000 | Yes | Yes | 2.00 |
| 99 | 7.13 | 8.23 | 2.79 | 1.78 | 0.84 | 12.62 | 5.71 | 72.04 | 4.000 | Yes | Yes | 2.00 |
| 100 | 7.19 | 6.62 | 2.88 | 1.83 | 0.87 | 10.02 | 6.93 | 69.39 | 4.000 | Yes | Yes | 2.00 |
| 101 | 7.32 | 5.77 | 2.88 | 1.39 | 0.87 | 8.65 | 6.87 | 59.40 | 4.000 | No | Yes | 2.00 |
| 102 | 7.42 | 5.17 | 2.80 | 0.72 | 0.85 | 7.67 | 5.87 | 44.99 | 4.000 | No | Yes | 2.00 |
| 103 | 7.49 | 4.93 | 2.63 | 0.13 | 0.80 | 7.28 | 4.02 | 29.29 | 4.000 | No | Yes | 2.00 |
| 104 | 7.57 | 4.73 | N/A | -0.03 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 105 | 7.66 | 4.56 | N/A | -0.01 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 106 | 7.76 | 4.44 | 2.68 | 0.13 | 0.81 | 6.47 | 4.48 | 29.00 | 4.000 | No | Yes | 2.00 |
| 107 | 7.77 | 4.39 | 2.72 | 0.22 | 0.82 | 6.39 | 4.95 | 31.63 | 4.000 | No | Yes | 2.00 |
| 108 | 7.78 | 4.42 | 2.73 | 0.25 | 0.83 | 6.44 | 5.05 | 32.53 | 4.000 | No | Yes | 2.00 |
| 109 | 7.82 | 4.44 | 2.76 | 0.33 | 0.84 | 6.47 | 5.36 | 34.69 | 4.000 | No | Yes | 2.00 |
| 110 | 7.87 | 4.45 | 2.80 | 0.46 | 0.85 | 6.49 | 5.86 | 38.07 | 4.000 | No | Yes | 2.00 |
| 111 | 7.92 | 4.45 | 2.85 | 0.63 | 0.86 | 6.49 | 6.45 | 41.83 | 4.000 | No | Yes | 2.00 |
| 112 | 7.97 | 4.49 | 2.88 | 0.80 | 0.87 | 6.54 | 6.96 | 45.53 | 4.000 | No | Yes | 2.00 |
| 113 | 8.01 | 4.59 | 2.91 | 1.01 | 0.88 | 6.70 | 7.41 | 49.66 | 4.000 | No | Yes | 2.00 |
| 114 | 8.06 | 4.76 | 2.92 | 1.17 | 0.89 | 6.97 | 7.58 | 52.81 | 4.000 | No | Yes | 2.00 |
| 115 | 8.11 | 4.93 | 2.93 | 1.29 | 0.89 | 7.24 | 7.65 | 55.42 | 4.000 | No | Yes | 2.00 |
| 116 | 8.20 | 5.06 | 2.93 | 1.38 | 0.89 | 7.45 | 7.68 | 57.24 | 4.000 | No | Yes | 2.00 |
| 117 | 8.26 | 5.16 | 2.94 | 1.51 | 0.89 | 7.60 | 7.84 | 59.63 | 4.000 | No | Yes | 2.00 |
| 118 | 8.35 | 5.23 | 2.95 | 1.61 | 1.00 | 7.70 | 7.98 | 61.50 | 4.000 | No | Yes | 2.00 |
| 119 | 8.40 | 5.30 | 2.95 | 1.67 | 1.00 | 7.81 | 8.02 | 62.65 | 4.000 | No | Yes | 2.00 |
| 120 | 8.49 | 5.37 | 2.95 | 1.68 | 0.89 | 7.91 | 7.96 | 62.99 | 4.000 | No | Yes | 2.00 |
| 121 | 8.54 | 5.51 | 2.94 | 1.69 | 0.89 | 8.13 | 7.81 | 63.54 | 4.000 | No | Yes | 2.00 |
| 122 | 8.64 | 5.71 | 2.93 | 1.68 | 0.89 | 8.45 | 7.58 | 64.06 | 4.000 | No | Yes | 2.00 |
| 123 | 8.69 | 5.91 | 2.91 | 1.68 | 0.88 | 8.77 | 7.37 | 64.63 | 4.000 | No | Yes | 2.00 |
| 124 | 8.79 | 6.18 | 2.92 | 1.87 | 0.88 | 9.19 | 7.46 | 68.57 | 4.000 | No | Yes | 2.00 |
| 125 | 8.84 | 6.48 | 2.93 | 2.12 | 0.89 | 9.68 | 7.59 | 73.49 | 4.000 | No | Yes | 2.00 |
| 126 | 8.93 | 6.89 | 2.92 | 2.28 | 0.88 | 10.32 | 7.50 | 77.37 | 4.000 | No | Yes | 2.00 |
| 127 | 9.03 | 7.13 | 2.92 | 2.39 | 0.88 | 10.69 | 7.46 | 79.83 | 4.000 | No | Yes | 2.00 |
| 128 | 9.08 | 7.21 | 2.92 | 2.47 | 0.88 | 10.83 | 7.52 | 81.47 | 4.000 | No | Yes | 2.00 |
| 129 | 9.11 | 7.16 | 2.94 | 2.63 | 0.89 | 10.75 | 7.78 | 83.66 | 4.000 | No | Yes | 2.00 |
| 130 | 9.12 | 7.13 | 2.95 | 2.68 | 0.89 | 10.69 | 7.89 | 84.32 | 4.000 | No | Yes | 2.00 |
| 131 | 9.17 | 7.07 | 2.95 | 2.75 | 1.00 | 10.60 | 8.03 | 85.13 | 4.000 | No | Yes | 2.00 |
| 132 | 9.22 | 7.12 | 2.96 | 2.81 | 1.00 | 10.67 | 8.09 | 86.32 | 4.000 | No | Yes | 2.00 |
| 133 | 9.31 | 6.92 | 2.99 | 3.02 | 1.00 | 10.34 | 8.56 | 88.56 | 4.000 | No | Yes | 2.00 |
| 134 | 9.36 | 7.16 | 2.98 | 3.04 | 1.00 | 10.72 | 8.37 | 89.76 | 4.000 | No | Yes | 2.00 |
| 135 | 9.40 | 7.46 | 2.95 | 2.98 | 1.00 | 11.20 | 8.04 | 90.10 | 4.000 | No | Yes | 2.00 |
| 136 | 9.46 | 8.14 | 2.90 | 2.76 | 0.88 | 12.28 | 7.25 | 89.07 | 4.000 | No | Yes | 2.00 |
| 137 | 9.51 | 8.47 | 2.88 | 2.68 | 0.87 | 12.82 | 6.92 | 88.75 | 4.000 | No | Yes | 2.00 |
| 138 | 9.55 | 8.78 | 2.86 | 2.65 | 0.87 | 13.30 | 6.70 | 89.10 | 4.000 | No | Yes | 2.00 |
| 139 | 9.61 | 8.98 | 2.86 | 2.71 | 0.87 | 13.63 | 6.65 | 90.65 | 4.000 | No | Yes | 2.00 |
| 140 | 9.69 | 9.12 | 2.87 | 2.83 | 0.87 | 13.84 | 6.73 | 93.09 | 4.000 | No | Yes | 2.00 |
| 141 | 9.74 | 9.18 | 2.88 | 2.97 | 0.87 | 13.94 | 6.87 | 95.71 | 4.000 | No | Yes | 2.00 |
| 142 | 9.81 | 9.39 | 2.88 | 3.05 | 0.87 | 14.26 | 6.85 | 97.70 | 4.000 | No | Yes | 2.00 |
| 143 | 9.89 | 9.76 | 2.86 | 3.02 | 0.87 | 14.85 | 6.62 | 98.33 | 4.000 | No | Yes | 2.00 |
| 144 | 9.94 | 10.06 | 2.84 | 2.98 | 0.86 | 15.33 | 6.42 | 98.43 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 145 | 10.03 | 10.23 | 2.83 | 2.93 | 0.86 | 15.59 | 6.28 | 97.94 | 4.000 | No | Yes | 2.00 |
| 146 | 10.08 | 10.23 | 2.80 | 2.62 | 0.85 | 15.59 | 5.91 | 92.18 | 4.000 | No | Yes | 2.00 |
| 147 | 10.18 | 10.23 | 2.76 | 2.21 | 0.84 | 15.58 | 5.40 | 84.12 | 4.000 | No | Yes | 2.00 |
| 148 | 10.23 | 10.23 | 2.73 | 1.94 | 0.83 | 15.58 | 5.05 | 78.62 | 4.000 | No | Yes | 2.00 |
| 149 | 10.33 | 10.23 | 2.74 | 2.03 | 0.83 | 15.57 | 5.17 | 80.55 | 4.000 | No | Yes | 2.00 |
| 150 | 10.40 | 10.23 | 2.77 | 2.31 | 0.84 | 15.56 | 5.54 | 86.20 | 4.000 | No | Yes | 2.00 |
| 151 | 10.47 | 10.08 | 2.80 | 2.55 | 0.85 | 15.32 | 5.91 | 90.44 | 4.000 | No | Yes | 2.00 |
| 152 | 10.51 | 10.06 | 2.83 | 2.76 | 0.86 | 15.28 | 6.18 | 94.42 | 4.000 | No | Yes | 2.00 |
| 153 | 10.56 | 10.03 | 2.84 | 2.94 | 0.86 | 15.23 | 6.41 | 97.63 | 4.000 | No | Yes | 2.00 |
| 154 | 10.61 | 10.21 | 2.85 | 3.10 | 0.86 | 15.52 | 6.51 | 100.97 | 4.000 | No | Yes | 2.00 |
| 155 | 10.67 | 10.16 | 2.88 | 3.41 | 0.87 | 15.43 | 6.88 | 106.14 | 4.000 | No | Yes | 2.00 |
| 156 | 10.75 | 10.13 | 2.90 | 3.70 | 0.88 | 15.37 | 7.21 | 110.80 | 4.000 | No | Yes | 2.00 |
| 157 | 10.80 | 9.99 | 2.92 | 3.91 | 0.88 | 15.15 | 7.50 | 113.70 | 4.000 | No | Yes | 2.00 |
| 158 | 10.85 | 9.89 | 2.93 | 3.98 | 0.89 | 14.99 | 7.63 | 114.35 | 4.000 | No | Yes | 2.00 |
| 159 | 10.90 | 9.72 | 2.94 | 4.07 | 0.89 | 14.71 | 7.82 | 115.05 | 4.000 | No | Yes | 2.00 |
| 160 | 11.00 | 9.45 | 2.96 | 4.21 | 1.00 | 14.27 | 8.13 | 116.05 | 4.000 | No | Yes | 2.00 |
| 161 | 11.05 | 9.05 | 2.99 | 4.36 | 1.00 | 13.61 | 8.55 | 116.32 | 4.000 | No | Yes | 2.00 |
| 162 | 11.14 | 8.61 | 3.01 | 4.54 | 1.00 | 12.90 | 9.04 | 116.64 | 4.000 | No | Yes | 2.00 |
| 163 | 11.21 | 8.27 | 3.04 | 4.77 | 1.00 | 12.36 | 9.53 | 117.80 | 4.000 | No | Yes | 2.00 |
| 164 | 11.29 | 8.24 | 3.05 | 4.86 | 1.00 | 12.30 | 9.66 | 118.79 | 4.000 | No | Yes | 2.00 |
| 165 | 11.38 | 8.41 | 3.04 | 4.86 | 1.00 | 12.56 | 9.53 | 119.67 | 4.000 | No | Yes | 2.00 |
| 166 | 11.46 | 8.68 | 3.02 | 4.71 | 1.00 | 12.98 | 9.18 | 119.19 | 4.000 | No | Yes | 2.00 |
| 167 | 11.52 | 8.88 | 3.01 | 4.64 | 1.00 | 13.30 | 8.96 | 119.26 | 4.000 | No | Yes | 2.00 |
| 168 | 11.60 | 8.98 | 3.00 | 4.60 | 1.00 | 13.46 | 8.85 | 119.12 | 4.000 | No | Yes | 2.00 |
| 169 | 11.67 | 9.05 | 3.00 | 4.58 | 1.00 | 13.56 | 8.79 | 119.24 | 4.000 | No | Yes | 2.00 |
| 170 | 11.72 | 9.12 | 3.00 | 4.58 | 1.00 | 13.67 | 8.75 | 119.52 | 4.000 | No | Yes | 2.00 |
| 171 | 11.81 | 9.32 | 2.99 | 4.50 | 1.00 | 13.98 | 8.54 | 119.37 | 4.000 | No | Yes | 2.00 |
| 172 | 11.86 | 9.35 | 2.98 | 4.50 | 1.00 | 14.03 | 8.52 | 119.54 | 4.000 | No | Yes | 2.00 |
| 173 | 11.96 | 9.42 | 2.98 | 4.48 | 1.00 | 14.07 | 8.48 | 119.37 | 4.000 | No | Yes | 2.00 |
| 174 | 12.01 | 9.45 | 2.98 | 4.50 | 1.00 | 14.06 | 8.50 | 119.58 | 4.000 | No | Yes | 2.00 |
| 175 | 12.10 | 9.69 | 2.97 | 4.05 | 0.89 | 13.55 | 8.25 | 111.75 | 4.000 | No | Yes | 2.00 |
| 176 | 12.16 | 10.07 | 2.91 | 3.44 | 0.88 | 13.97 | 7.41 | 103.51 | 4.000 | No | Yes | 2.00 |
| 177 | 12.24 | 10.47 | 2.88 | 3.08 | 0.87 | 14.38 | 6.85 | 98.49 | 4.000 | No | Yes | 2.00 |
| 178 | 12.32 | 10.87 | 2.88 | 3.24 | 0.87 | 14.89 | 6.86 | 102.09 | 4.000 | No | Yes | 2.00 |
| 179 | 12.39 | 11.18 | 2.90 | 3.63 | 0.88 | 15.29 | 7.16 | 109.53 | 4.000 | No | Yes | 2.00 |
| 180 | 12.48 | 10.64 | 2.95 | 4.13 | 0.89 | 14.47 | 7.97 | 115.36 | 4.000 | No | Yes | 2.00 |
| 181 | 12.50 | 10.23 | 2.97 | 4.52 | 1.00 | 14.64 | 8.30 | 121.50 | 4.000 | No | Yes | 2.00 |
| 182 | 12.54 | 10.74 | 2.96 | 4.40 | 0.89 | 14.58 | 8.20 | 119.55 | 4.000 | No | Yes | 2.00 |
| 183 | 12.64 | 12.36 | 2.89 | 3.89 | 0.87 | 16.65 | 7.01 | 116.68 | 4.000 | No | Yes | 2.00 |
| 184 | 12.68 | 14.04 | 2.81 | 3.45 | 0.85 | 18.79 | 6.01 | 113.05 | 4.000 | No | Yes | 2.00 |
| 185 | 12.77 | 14.72 | 2.78 | 3.24 | 0.84 | 19.54 | 5.64 | 110.30 | 4.000 | No | Yes | 2.00 |
| 186 | 12.82 | 14.75 | 2.78 | 3.14 | 0.84 | 19.48 | 5.55 | 108.15 | 4.000 | No | Yes | 2.00 |
| 187 | 12.89 | 14.21 | 2.79 | 3.12 | 0.84 | 18.67 | 5.71 | 106.60 | 4.000 | No | Yes | 2.00 |
| 188 | 12.97 | 13.37 | 2.82 | 3.26 | 0.85 | 17.49 | 6.13 | 107.25 | 4.000 | No | Yes | 2.00 |
| 189 | 13.03 | 12.49 | 2.86 | 3.45 | 0.87 | 16.30 | 6.66 | 108.51 | 4.000 | No | Yes | 2.00 |
| 190 | 13.12 | 11.72 | 2.90 | 3.66 | 0.88 | 15.20 | 7.22 | 109.85 | 4.000 | No | Yes | 2.00 |
| 191 | 13.16 | 11.21 | 2.93 | 3.77 | 0.89 | 14.50 | 7.58 | 109.96 | 4.000 | No | Yes | 2.00 |
| 192 | 13.26 | 10.91 | 2.93 | 3.69 | 0.89 | 13.99 | 7.68 | 107.43 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 193 | 13.34 | 10.84 | 2.92 | 3.42 | 0.88 | 13.79 | 7.45 | 102.72 | 4.000 | No | Yes | 2.00 |
| 194 | 13.41 | 10.74 | 2.90 | 3.11 | 0.88 | 13.56 | 7.18 | 97.27 | 4.000 | No | Yes | 2.00 |
| 195 | 13.50 | 10.60 | 2.89 | 2.96 | 0.88 | 13.27 | 7.10 | 94.19 | 4.000 | No | Yes | 2.00 |
| 196 | 13.60 | 10.33 | 2.90 | 2.95 | 0.88 | 12.84 | 7.26 | 93.25 | 4.000 | No | Yes | 2.00 |
| 197 | 13.65 | 10.13 | 2.92 | 3.04 | 0.88 | 12.55 | 7.49 | 94.05 | 4.000 | No | Yes | 2.00 |
| 198 | 13.75 | 10.03 | 2.93 | 3.14 | 0.89 | 12.35 | 7.71 | 95.17 | 4.000 | No | Yes | 2.00 |
| 199 | 13.80 | 10.10 | 2.92 | 3.04 | 0.89 | 12.37 | 7.57 | 93.67 | 4.000 | No | Yes | 2.00 |
| 200 | 13.89 | 10.23 | 2.92 | 3.06 | 0.89 | 12.47 | 7.55 | 94.18 | 4.000 | No | Yes | 2.00 |
| 201 | 13.94 | 10.63 | 2.92 | 3.15 | 0.88 | 12.95 | 7.46 | 96.59 | 4.000 | No | Yes | 2.00 |
| 202 | 14.03 | 10.80 | 2.95 | 3.59 | 0.89 | 13.13 | 7.91 | 103.87 | 4.000 | No | Yes | 2.00 |
| 203 | 14.11 | 11.23 | 2.95 | 3.82 | 0.89 | 13.59 | 7.98 | 108.45 | 4.000 | No | Yes | 2.00 |
| 204 | 14.13 | 11.53 | 2.95 | 3.97 | 0.89 | 13.97 | 7.99 | 111.61 | 4.000 | No | Yes | 2.00 |
| 205 | 14.18 | 12.27 | 2.92 | 3.86 | 0.89 | 14.85 | 7.55 | 112.19 | 4.000 | No | Yes | 2.00 |
| 206 | 14.22 | 12.83 | 2.91 | 3.88 | 0.88 | 15.50 | 7.35 | 113.98 | 4.000 | No | Yes | 2.00 |
| 207 | 14.28 | 13.44 | 2.90 | 3.92 | 0.88 | 16.19 | 7.18 | 116.20 | 4.000 | No | Yes | 2.00 |
| 208 | 14.37 | 14.01 | 2.89 | 3.98 | 0.88 | 16.81 | 7.06 | 118.62 | 4.000 | No | Yes | 2.00 |
| 209 | 14.44 | 14.79 | 2.87 | 3.97 | 0.87 | 17.68 | 6.80 | 120.24 | 4.000 | No | Yes | 2.00 |
| 210 | 14.51 | 15.63 | 2.85 | 3.90 | 0.86 | 18.60 | 6.50 | 120.95 | 4.000 | No | Yes | 2.00 |
| 211 | 14.60 | 16.31 | 2.83 | 3.86 | 0.86 | 19.30 | 6.30 | 121.55 | 4.000 | No | Yes | 2.00 |
| 212 | 14.65 | 16.58 | 2.83 | 3.91 | 0.86 | 19.57 | 6.28 | 122.89 | 4.000 | No | Yes | 2.00 |
| 213 | 14.75 | 16.56 | 2.84 | 3.99 | 0.86 | 19.44 | 6.39 | 124.23 | 4.000 | No | Yes | 2.00 |
| 214 | 14.85 | 16.48 | 2.85 | 4.06 | 0.86 | 19.22 | 6.50 | 124.95 | 4.000 | No | Yes | 2.00 |
| 215 | 14.91 | 16.44 | 2.85 | 4.07 | 0.86 | 19.11 | 6.54 | 124.89 | 4.000 | No | Yes | 2.00 |
| 216 | 14.99 | 17.00 | 2.83 | 3.89 | 0.86 | 19.64 | 6.25 | 122.73 | 4.000 | Yes | Yes | 2.00 |
| 217 | 15.09 | 18.30 | 2.79 | 3.60 | 0.84 | 21.01 | 5.69 | 119.59 | 4.000 | Yes | Yes | 2.00 |
| 218 | 15.18 | 20.29 | 2.72 | 3.20 | 0.82 | 23.13 | 4.94 | 114.33 | 4.000 | Yes | Yes | 2.00 |
| 219 | 15.25 | 22.28 | 2.66 | 2.79 | 0.80 | 25.25 | 4.26 | 107.53 | 4.000 | Yes | Yes | 2.00 |
| 220 | 15.33 | 24.50 | 2.58 | 2.38 | 0.78 | 27.58 | 3.60 | 99.22 | 4.000 | Yes | No | 2.00 |
| 221 | 15.43 | 27.51 | 2.50 | 1.99 | 0.76 | 30.70 | 2.96 | 90.92 | 4.000 | Yes | No | 2.00 |
| 222 | 15.51 | 31.32 | 2.41 | 1.70 | 0.73 | 34.70 | 2.45 | 84.95 | 4.000 | Yes | No | 2.00 |
| 223 | 15.59 | 34.63 | 2.35 | 1.53 | 0.71 | 38.13 | 2.14 | 81.77 | 4.000 | Yes | No | 2.00 |
| 224 | 15.67 | 36.18 | 2.33 | 1.46 | 0.71 | 39.65 | 2.03 | 80.65 | 4.000 | Yes | No | 2.00 |
| 225 | 15.76 | 35.13 | 2.35 | 1.53 | 0.71 | 38.36 | 2.14 | 81.98 | 4.000 | Yes | No | 2.00 |
| 226 | 15.86 | 32.03 | 2.41 | 1.71 | 0.73 | 34.86 | 2.45 | 85.36 | 4.000 | Yes | No | 2.00 |
| 227 | 15.95 | 27.64 | 2.51 | 2.00 | 0.76 | 30.01 | 3.03 | 90.95 | 4.000 | Yes | No | 2.00 |
| 228 | 16.05 | 23.08 | 2.61 | 2.33 | 0.79 | 24.94 | 3.85 | 95.91 | 4.000 | Yes | Yes | 2.00 |
| 229 | 16.14 | 19.31 | 2.71 | 2.64 | 0.82 | 20.73 | 4.79 | 99.32 | 4.000 | Yes | Yes | 2.00 |
| 230 | 16.20 | 16.85 | 2.78 | 2.83 | 0.84 | 17.98 | 5.55 | 99.84 | 4.000 | Yes | Yes | 2.00 |
| 231 | 16.28 | 15.33 | 2.82 | 2.95 | 0.85 | 16.24 | 6.13 | 99.52 | 4.000 | Yes | Yes | 2.00 |
| 232 | 16.34 | 14.21 | 2.85 | 2.97 | 0.86 | 14.97 | 6.52 | 97.62 | 4.000 | Yes | Yes | 2.00 |
| 233 | 16.44 | 12.93 | 2.89 | 3.04 | 0.88 | 13.48 | 7.12 | 95.96 | 4.000 | Yes | Yes | 2.00 |
| 234 | 16.50 | 11.61 | 2.93 | 3.03 | 0.89 | 12.00 | 7.73 | 92.73 | 4.000 | Yes | Yes | 2.00 |
| 235 | 16.58 | 10.17 | 2.96 | 2.83 | 1.00 | 10.54 | 8.19 | 86.31 | 4.000 | Yes | Yes | 2.00 |
| 236 | 16.73 | 8.75 | 2.98 | 2.31 | 1.00 | 8.85 | 8.43 | 74.57 | 4.000 | No | Yes | 2.00 |
| 237 | 16.82 | 7.60 | 2.96 | 1.61 | 1.00 | 7.51 | 8.14 | 61.14 | 4.000 | No | Yes | 2.00 |
| 238 | 16.92 | 7.06 | 2.97 | 1.45 | 1.00 | 6.86 | 8.35 | 57.29 | 4.000 | No | Yes | 2.00 |
| 239 | 17.01 | 6.56 | 3.09 | 2.09 | 1.00 | 6.26 | 10.33 | 64.67 | 4.000 | No | Yes | 2.00 |
| 240 | 17.11 | 6.20 | 3.19 | 2.99 | 1.00 | 5.84 | 12.54 | 73.17 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 241 | 17.12 | 5.73 | 3.28 | 3.81 | 1.00 | 5.31 | 14.74 | 78.30 | 4.000 | No | Yes | 2.00 |
| 242 | 17.14 | 6.34 | 3.23 | 3.66 | 1.00 | 5.97 | 13.44 | 80.31 | 4.000 | No | Yes | 2.00 |
| 243 | 17.19 | 7.13 | 3.17 | 3.53 | 1.00 | 6.82 | 12.15 | 82.92 | 4.000 | No | Yes | 2.00 |
| 244 | 17.28 | 7.94 | 3.13 | 3.46 | 1.00 | 7.67 | 11.16 | 85.58 | 4.000 | No | Yes | 2.00 |
| 245 | 17.33 | 8.01 | 3.14 | 3.72 | 1.00 | 7.71 | 11.48 | 88.52 | 4.000 | No | Yes | 2.00 |
| 246 | 17.43 | 7.87 | 3.16 | 3.90 | 1.00 | 7.52 | 11.93 | 89.67 | 4.000 | No | Yes | 2.00 |
| 247 | 17.47 | 7.74 | 3.17 | 3.85 | 1.00 | 7.35 | 12.03 | 88.37 | 4.000 | No | Yes | 2.00 |
| 248 | 17.57 | 7.57 | 3.16 | 3.62 | 1.00 | 7.12 | 11.95 | 85.14 | 4.000 | No | Yes | 2.00 |
| 249 | 17.65 | 7.47 | 3.15 | 3.35 | 1.00 | 6.98 | 11.70 | 81.63 | 4.000 | No | Yes | 2.00 |
| 250 | 17.72 | 7.40 | 3.16 | 3.37 | 1.00 | 6.88 | 11.84 | 81.46 | 4.000 | No | Yes | 2.00 |
| 251 | 17.81 | 7.57 | 3.16 | 3.48 | 1.00 | 7.02 | 11.86 | 83.22 | 4.000 | No | Yes | 2.00 |
| 252 | 17.86 | 7.87 | 3.17 | 3.79 | 1.00 | 7.32 | 11.98 | 87.65 | 4.000 | No | Yes | 2.00 |
| 253 | 17.95 | 8.31 | 3.16 | 4.07 | 1.00 | 7.73 | 11.95 | 92.32 | 4.000 | No | Yes | 2.00 |
| 254 | 18.05 | 8.78 | 3.16 | 4.29 | 1.00 | 8.18 | 11.81 | 96.52 | 4.000 | No | Yes | 2.00 |
| 255 | 18.10 | 9.22 | 3.15 | 4.49 | 1.00 | 8.61 | 11.67 | 100.43 | 4.000 | No | Yes | 2.00 |
| 256 | 18.20 | 9.66 | 3.14 | 4.65 | 1.00 | 9.01 | 11.52 | 103.80 | 4.000 | No | Yes | 2.00 |
| 257 | 18.30 | 9.90 | 3.15 | 4.85 | 1.00 | 9.20 | 11.60 | 106.76 | 4.000 | No | Yes | 2.00 |
| 258 | 18.39 | 10.13 | 3.14 | 4.89 | 1.00 | 9.38 | 11.50 | 107.91 | 4.000 | No | Yes | 2.00 |
| 259 | 18.48 | 10.27 | 3.14 | 4.83 | 1.00 | 9.47 | 11.38 | 107.71 | 4.000 | No | Yes | 2.00 |
| 260 | 18.58 | 10.30 | 3.14 | 4.82 | 1.00 | 9.44 | 11.38 | 107.46 | 4.000 | No | Yes | 2.00 |
| 261 | 18.66 | 10.20 | 3.14 | 4.82 | 1.00 | 9.30 | 11.49 | 106.87 | 4.000 | No | Yes | 2.00 |
| 262 | 18.74 | 10.07 | 3.14 | 4.69 | 1.00 | 9.12 | 11.49 | 104.74 | 4.000 | No | Yes | 2.00 |
| 263 | 18.87 | 9.90 | 3.11 | 3.92 | 1.00 | 8.88 | 10.73 | 95.26 | 4.000 | No | Yes | 2.00 |
| 264 | 18.97 | 9.66 | 3.07 | 3.27 | 1.00 | 8.59 | 10.09 | 86.69 | 4.000 | No | Yes | 2.00 |
| 265 | 19.06 | 9.56 | 3.05 | 2.85 | 1.00 | 8.45 | 9.58 | 80.90 | 4.000 | No | Yes | 2.00 |
| 266 | 19.16 | 9.83 | 3.06 | 3.14 | 1.00 | 8.66 | 9.84 | 85.25 | 4.000 | No | Yes | 2.00 |
| 267 | 19.25 | 10.13 | 3.06 | 3.34 | 1.00 | 8.91 | 9.93 | 88.50 | 4.000 | No | Yes | 2.00 |
| 268 | 19.27 | 10.23 | 3.08 | 3.58 | 1.00 | 9.00 | 10.18 | 91.69 | 4.000 | No | Yes | 2.00 |
| 269 | 19.30 | 10.37 | 3.09 | 3.79 | 1.00 | 9.12 | 10.39 | 94.70 | 4.000 | No | Yes | 2.00 |
| 270 | 19.34 | 10.57 | 3.10 | 4.04 | 1.00 | 9.29 | 10.57 | 98.19 | 4.000 | No | Yes | 2.00 |
| 271 | 19.39 | 10.84 | 3.09 | 4.12 | 1.00 | 9.53 | 10.50 | 100.00 | 4.000 | No | Yes | 2.00 |
| 272 | 19.49 | 10.78 | 3.10 | 4.12 | 1.00 | 9.41 | 10.57 | 99.51 | 4.000 | No | Yes | 2.00 |
| 273 | 19.55 | 10.51 | 3.10 | 4.04 | 1.00 | 9.12 | 10.70 | 97.54 | 4.000 | No | Yes | 2.00 |
| 274 | 19.63 | 10.17 | 3.11 | 3.94 | 1.00 | 8.75 | 10.86 | 95.04 | 4.000 | No | Yes | 2.00 |
| 275 | 19.68 | 9.87 | 3.11 | 3.78 | 1.00 | 8.43 | 10.91 | 92.04 | 4.000 | No | Yes | 2.00 |
| 276 | 19.74 | 9.77 | 3.10 | 3.54 | 1.00 | 8.31 | 10.69 | 88.83 | 4.000 | No | Yes | 2.00 |
| 277 | 19.83 | 9.73 | 3.10 | 3.44 | 1.00 | 8.24 | 10.61 | 87.40 | 4.000 | No | Yes | 2.00 |
| 278 | 19.87 | 9.73 | 3.10 | 3.38 | 1.00 | 8.22 | 10.55 | 86.67 | 4.000 | No | Yes | 2.00 |
| 279 | 19.94 | 9.73 | 3.11 | 3.54 | 1.00 | 8.19 | 10.80 | 88.39 | 4.000 | No | Yes | 2.00 |
| 280 | 20.02 | 9.80 | 3.12 | 3.73 | 1.00 | 8.21 | 11.04 | 90.64 | 4.000 | No | Yes | 2.00 |
| 281 | 20.07 | 10.17 | 3.13 | 4.13 | 1.00 | 8.54 | 11.28 | 96.33 | 4.000 | No | Yes | 2.00 |
| 282 | 20.17 | 11.42 | 3.09 | 4.10 | 1.00 | 9.65 | 10.38 | 100.21 | 4.000 | No | Yes | 2.00 |
| 283 | 20.21 | 14.18 | 2.97 | 3.57 | 1.00 | 12.20 | 8.30 | 101.25 | 4.000 | Yes | Yes | 2.00 |
| 284 | 20.28 | 18.74 | 2.80 | 2.81 | 0.85 | 16.43 | 5.92 | 97.16 | 4.000 | Yes | Yes | 2.00 |
| 285 | 20.36 | 24.88 | 2.64 | 2.22 | 0.80 | 22.08 | 4.11 | 90.84 | 4.000 | Yes | Yes | 2.00 |
| 286 | 20.41 | 31.73 | 2.51 | 1.86 | 0.76 | 28.40 | 3.02 | 85.89 | 4.000 | Yes | No | 2.00 |
| 287 | 20.48 | 38.64 | 2.40 | 1.64 | 0.73 | 34.74 | 2.39 | 83.15 | 4.000 | Yes | No | 2.00 |
| 288 | 20.55 | 44.99 | 2.33 | 1.49 | 0.71 | 40.52 | 2.02 | 82.00 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 289 | 20.60 | 49.88 | 2.27 | 1.39 | 0.69 | 44.99 | 1.82 | 81.90 | 4.000 | Yes | No | 2.00 |
| 290 | 20.70 | 52.55 | 2.25 | 1.34 | 0.68 | 47.28 | 1.74 | 82.23 | 4.000 | No | No | 2.00 |
| 291 | 20.74 | 52.68 | 2.25 | 1.37 | 0.68 | 47.32 | 1.75 | 82.97 | 4.000 | No | No | 2.00 |
| 292 | 20.79 | 51.17 | 2.28 | 1.45 | 0.69 | 45.83 | 1.84 | 84.31 | 4.000 | No | No | 2.00 |
| 293 | 20.89 | 48.70 | 2.33 | 1.63 | 0.71 | 43.39 | 2.03 | 87.95 | 4.000 | No | No | 2.00 |
| 294 | 20.96 | 46.86 | 2.33 | 1.59 | 0.71 | 41.58 | 2.06 | 85.66 | 4.000 | No | No | 2.00 |
| 295 | 21.04 | 45.83 | 2.34 | 1.58 | 0.71 | 40.52 | 2.09 | 84.84 | 4.000 | No | No | 2.00 |
| 296 | 21.13 | 45.80 | 2.33 | 1.51 | 0.71 | 40.36 | 2.05 | 82.71 | 4.000 | No | No | 2.00 |
| 297 | 21.22 | 49.22 | 2.31 | 1.55 | 0.70 | 43.31 | 1.97 | 85.52 | 4.000 | No | No | 2.00 |
| 298 | 21.29 | 52.71 | 2.28 | 1.51 | 0.69 | 46.38 | 1.86 | 86.23 | 4.000 | No | No | 2.00 |
| 299 | 21.35 | 62.13 | 2.19 | 1.30 | 0.66 | 54.84 | 1.58 | 86.56 | 4.000 | No | No | 2.00 |
| 300 | 21.37 | 71.37 | 2.10 | 1.15 | 0.64 | 63.21 | 1.42 | 89.97 | 4.000 | No | No | 2.00 |
| 301 | 21.42 | 83.72 | 2.01 | 0.98 | 0.61 | 74.37 | 1.31 | 97.64 | 4.000 | No | No | 2.00 |
| 302 | 21.47 | 92.73 | 1.95 | 0.89 | 0.59 | 82.47 | 1.27 | 104.48 | 4.000 | No | No | 2.00 |
| 303 | 21.48 | 100.66 | 1.90 | 0.82 | 0.58 | 89.69 | 1.23 | 110.65 | 4.000 | No | No | 2.00 |
| 304 | 21.52 | 107.37 | 1.85 | 0.77 | 0.56 | 95.73 | 1.20 | 115.32 | 4.000 | No | No | 2.00 |
| 305 | 21.57 | 113.24 | 1.82 | 0.73 | 0.55 | 100.98 | 1.17 | 118.63 | 4.000 | No | No | 2.00 |
| 306 | 21.62 | 118.81 | 1.79 | 0.69 | 0.54 | 105.91 | 1.14 | 120.85 | 4.000 | No | No | 2.00 |
| 307 | 21.66 | 124.00 | 1.76 | 0.65 | 0.54 | 110.52 | 1.10 | 122.11 | 4.000 | No | No | 2.00 |
| 308 | 21.71 | 128.79 | 1.74 | 0.63 | 0.53 | 114.75 | 1.07 | 122.79 | 4.000 | No | No | 2.00 |
| 309 | 21.76 | 132.64 | 1.73 | 0.62 | 0.53 | 118.10 | 1.04 | 123.42 | 4.000 | No | No | 2.00 |
| 310 | 21.81 | 135.34 | 1.72 | 0.63 | 0.52 | 120.38 | 1.03 | 124.51 | 4.000 | No | No | 2.00 |
| 311 | 21.85 | 136.99 | 1.72 | 0.64 | 0.53 | 121.70 | 1.04 | 126.15 | 4.000 | No | No | 2.00 |
| 312 | 21.91 | 137.80 | 1.73 | 0.66 | 0.53 | 122.24 | 1.05 | 127.87 | 4.000 | No | No | 2.00 |
| 313 | 21.95 | 138.11 | 1.73 | 0.67 | 0.53 | 122.32 | 1.06 | 129.40 | 4.000 | No | No | 2.00 |
| 314 | 22.00 | 138.24 | 1.74 | 0.69 | 0.53 | 122.26 | 1.07 | 130.49 | 4.000 | No | No | 2.00 |
| 315 | 22.05 | 138.18 | 1.75 | 0.70 | 0.53 | 122.02 | 1.08 | 131.33 | 4.000 | No | No | 2.00 |
| 316 | 22.10 | 138.24 | 1.75 | 0.71 | 0.53 | 121.90 | 1.08 | 132.00 | 4.000 | No | No | 2.00 |
| 317 | 22.15 | 138.31 | 1.75 | 0.72 | 0.53 | 121.77 | 1.09 | 132.56 | 4.000 | No | No | 2.00 |
| 318 | 22.19 | 138.68 | 1.75 | 0.72 | 0.53 | 121.94 | 1.09 | 133.12 | 4.000 | No | No | 2.00 |
| 319 | 22.24 | 139.25 | 1.76 | 0.75 | 0.54 | 122.24 | 1.11 | 135.35 | 4.000 | No | No | 2.00 |
| 320 | 22.29 | 139.86 | 1.77 | 0.77 | 0.54 | 122.58 | 1.11 | 136.60 | 4.000 | No | No | 2.00 |
| 321 | 22.34 | 140.20 | 1.77 | 0.78 | 0.54 | 122.70 | 1.12 | 137.16 | 4.000 | No | No | 2.00 |
| 322 | 22.39 | 140.06 | 1.77 | 0.76 | 0.54 | 122.45 | 1.11 | 135.89 | 4.000 | No | No | 2.00 |
| 323 | 22.43 | 139.42 | 1.77 | 0.76 | 0.54 | 121.72 | 1.11 | 135.26 | 4.000 | No | No | 2.00 |
| 324 | 22.48 | 138.34 | 1.77 | 0.76 | 0.54 | 120.56 | 1.12 | 135.08 | 4.000 | No | No | 2.00 |
| 325 | 22.55 | 136.79 | 1.78 | 0.78 | 0.54 | 118.95 | 1.13 | 134.76 | 4.000 | No | No | 2.00 |
| 326 | 22.62 | 130.08 | 1.82 | 0.82 | 0.55 | 112.68 | 1.17 | 131.90 | 4.000 | No | No | 2.00 |
| 327 | 22.63 | 127.95 | 1.83 | 0.83 | 0.56 | 110.75 | 1.18 | 130.57 | 4.000 | No | No | 2.00 |
| 328 | 22.72 | 125.56 | 1.83 | 0.84 | 0.56 | 108.31 | 1.19 | 128.61 | 4.000 | No | No | 2.00 |
| 329 | 22.77 | 128.09 | 1.82 | 0.81 | 0.55 | 110.46 | 1.17 | 129.57 | 4.000 | No | No | 2.00 |
| 330 | 22.83 | 126.13 | 1.83 | 0.83 | 0.56 | 108.51 | 1.19 | 128.59 | 4.000 | No | No | 2.00 |
| 331 | 22.91 | 124.21 | 1.85 | 0.86 | 0.56 | 106.52 | 1.20 | 127.55 | 4.000 | No | No | 2.00 |
| 332 | 22.96 | 121.74 | 1.86 | 0.88 | 0.57 | 104.15 | 1.21 | 126.09 | 4.000 | No | No | 2.00 |
| 333 | 23.02 | 118.20 | 1.88 | 0.91 | 0.57 | 100.84 | 1.22 | 123.45 | 4.000 | No | No | 2.00 |
| 334 | 23.10 | 113.85 | 1.90 | 0.94 | 0.58 | 96.74 | 1.24 | 119.96 | 4.000 | No | No | 2.00 |
| 335 | 23.16 | 108.42 | 1.93 | 0.98 | 0.59 | 91.79 | 1.26 | 115.60 | 4.000 | No | No | 2.00 |
| 336 | 23.20 | 102.21 | 1.97 | 1.03 | 0.60 | 86.20 | 1.28 | 110.62 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 337 | 23.26 | 95.46 | 2.01 | 1.08 | 0.61 | 80.15 | 1.31 | 105.23 | 4.000 | No | No | 2.00 |
| 338 | 23.35 | 88.68 | 2.05 | 1.15 | 0.62 | 74.00 | 1.36 | 100.36 | 4.000 | No | No | 2.00 |
| 339 | 23.39 | 81.66 | 2.10 | 1.23 | 0.64 | 67.80 | 1.42 | 95.97 | 4.000 | No | No | 2.00 |
| 340 | 23.48 | 74.68 | 2.15 | 1.34 | 0.65 | 61.55 | 1.51 | 93.11 | 4.000 | No | No | 2.00 |
| 341 | 23.54 | 68.33 | 2.20 | 1.41 | 0.67 | 55.99 | 1.61 | 90.41 | 4.000 | No | No | 2.00 |
| 342 | 23.63 | 63.44 | 2.23 | 1.41 | 0.68 | 51.67 | 1.69 | 87.24 | 4.000 | No | No | 2.00 |
| 343 | 23.69 | 60.07 | 2.21 | 1.21 | 0.67 | 48.84 | 1.63 | 79.68 | 4.000 | No | No | 2.00 |
| 344 | 23.78 | 58.37 | 2.19 | 1.08 | 0.66 | 47.34 | 1.59 | 75.09 | 4.000 | No | No | 2.00 |
| 345 | 23.87 | 57.71 | 2.18 | 1.00 | 0.66 | 46.70 | 1.56 | 72.76 | 4.000 | No | No | 2.00 |
| 346 | 23.88 | 57.81 | 2.20 | 1.11 | 0.67 | 46.69 | 1.62 | 75.51 | 4.000 | No | No | 2.00 |
| 347 | 23.93 | 57.42 | 2.23 | 1.22 | 0.68 | 46.23 | 1.69 | 78.05 | 4.000 | No | No | 2.00 |
| 348 | 24.02 | 57.22 | 2.25 | 1.33 | 0.68 | 45.85 | 1.76 | 80.73 | 4.000 | No | No | 2.00 |
| 349 | 24.04 | 56.97 | 2.27 | 1.41 | 0.69 | 45.57 | 1.82 | 82.98 | 4.000 | No | No | 2.00 |
| 350 | 24.05 | 57.34 | 2.28 | 1.47 | 0.69 | 45.82 | 1.85 | 84.83 | 4.000 | No | No | 2.00 |
| 351 | 24.15 | 58.27 | 2.28 | 1.52 | 0.69 | 46.42 | 1.87 | 86.71 | 4.000 | No | No | 2.00 |
| 352 | 24.20 | 60.11 | 2.28 | 1.55 | 0.69 | 47.86 | 1.85 | 88.32 | 4.000 | No | No | 2.00 |
| 353 | 24.30 | 62.64 | 2.25 | 1.45 | 0.68 | 49.86 | 1.75 | 87.06 | 4.000 | No | No | 2.00 |
| 354 | 24.40 | 65.07 | 2.21 | 1.31 | 0.67 | 51.83 | 1.63 | 84.41 | 4.000 | No | No | 2.00 |
| 355 | 24.46 | 66.59 | 2.16 | 1.15 | 0.66 | 53.10 | 1.53 | 81.44 | 4.000 | No | No | 2.00 |
| 356 | 24.54 | 66.42 | 2.15 | 1.08 | 0.65 | 52.90 | 1.50 | 79.49 | 4.000 | No | No | 2.00 |
| 357 | 24.64 | 64.09 | 2.17 | 1.11 | 0.66 | 50.78 | 1.55 | 78.59 | 4.000 | Yes | No | 2.00 |
| 358 | 24.73 | 59.94 | 2.22 | 1.24 | 0.68 | 47.12 | 1.68 | 79.13 | 4.000 | Yes | No | 2.00 |
| 359 | 24.78 | 54.64 | 2.30 | 1.43 | 0.70 | 42.55 | 1.92 | 81.62 | 4.000 | Yes | No | 2.00 |
| 360 | 24.88 | 48.57 | 2.38 | 1.66 | 0.72 | 37.36 | 2.28 | 85.25 | 4.000 | Yes | No | 2.00 |
| 361 | 24.94 | 41.92 | 2.47 | 1.90 | 0.75 | 31.81 | 2.80 | 89.16 | 4.000 | Yes | No | 2.00 |
| 362 | 25.02 | 35.00 | 2.57 | 2.14 | 0.78 | 26.12 | 3.52 | 92.04 | 4.000 | Yes | No | 2.00 |
| 363 | 25.12 | 28.43 | 2.69 | 2.46 | 0.81 | 20.76 | 4.59 | 95.35 | 4.000 | Yes | Yes | 2.00 |
| 364 | 25.17 | 22.86 | 2.81 | 2.88 | 0.85 | 16.30 | 6.02 | 98.17 | 4.000 | Yes | Yes | 2.00 |
| 365 | 25.27 | 18.41 | 2.93 | 3.27 | 0.89 | 12.75 | 7.69 | 98.13 | 4.000 | Yes | Yes | 2.00 |
| 366 | 25.36 | 15.13 | 3.04 | 3.56 | 1.00 | 9.96 | 9.50 | 94.69 | 4.000 | No | Yes | 2.00 |
| 367 | 25.43 | 12.60 | 3.13 | 3.75 | 1.00 | 8.11 | 11.16 | 90.44 | 4.000 | No | Yes | 2.00 |
| 368 | 25.50 | 10.88 | 3.20 | 3.97 | 1.00 | 6.84 | 12.76 | 87.31 | 4.000 | No | Yes | 2.00 |
| 369 | 25.60 | 9.77 | 3.25 | 4.08 | 1.00 | 6.01 | 14.03 | 84.31 | 4.000 | No | Yes | 2.00 |
| 370 | 25.64 | 9.26 | 3.27 | 4.02 | 1.00 | 5.64 | 14.52 | 81.86 | 4.000 | No | Yes | 2.00 |
| 371 | 25.67 | 9.06 | 3.28 | 3.90 | 1.00 | 5.48 | 14.58 | 79.98 | 4.000 | No | Yes | 2.00 |
| 372 | 25.71 | 8.86 | 3.27 | 3.61 | 1.00 | 5.33 | 14.38 | 76.65 | 4.000 | No | Yes | 2.00 |
| 373 | 25.79 | 8.52 | 3.26 | 3.26 | 1.00 | 5.07 | 14.25 | 72.22 | 4.000 | No | Yes | 2.00 |
| 374 | 25.93 | 8.18 | 3.26 | 2.95 | 1.00 | 4.80 | 14.17 | 68.01 | 4.000 | No | Yes | 2.00 |
| 375 | 26.03 | 8.02 | 3.25 | 2.70 | 1.00 | 4.66 | 13.97 | 65.11 | 4.000 | No | Yes | 2.00 |
| 376 | 26.13 | 8.02 | 3.24 | 2.57 | 1.00 | 4.64 | 13.74 | 63.74 | 4.000 | No | Yes | 2.00 |
| 377 | 26.24 | 8.08 | 3.23 | 2.50 | 1.00 | 4.67 | 13.54 | 63.18 | 4.000 | No | Yes | 2.00 |
| 378 | 26.37 | 8.18 | 3.23 | 2.51 | 1.00 | 4.71 | 13.48 | 63.49 | 4.000 | No | Yes | 2.00 |
| 379 | 26.47 | 8.25 | 3.23 | 2.56 | 1.00 | 4.73 | 13.53 | 64.09 | 4.000 | No | Yes | 2.00 |
| 380 | 26.60 | 8.25 | 3.22 | 2.39 | 1.00 | 4.71 | 13.24 | 62.33 | 4.000 | No | Yes | 2.00 |
| 381 | 26.71 | 8.38 | 3.19 | 2.15 | 1.00 | 4.78 | 12.59 | 60.15 | 4.000 | No | Yes | 2.00 |
| 382 | 26.85 | 8.75 | 3.16 | 1.96 | 1.00 | 5.00 | 11.78 | 58.94 | 4.000 | No | Yes | 2.00 |
| 383 | 26.95 | 8.96 | 3.18 | 2.26 | 1.00 | 5.12 | 12.24 | 62.69 | 4.000 | No | Yes | 2.00 |
| 384 | 27.04 | 9.60 | 3.18 | 2.57 | 1.00 | 5.54 | 12.21 | 67.66 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 385 | 27.09 | 10.14 | 3.18 | 2.92 | 1.00 | 5.90 | 12.33 | 72.68 | 4.000 | No | Yes | 2.00 |
| 386 | 27.19 | 10.95 | 3.16 | 2.98 | 1.00 | 6.42 | 11.76 | 75.49 | 4.000 | No | Yes | 2.00 |
| 387 | 27.23 | 11.18 | 3.16 | 3.16 | 1.00 | 6.56 | 11.88 | 78.01 | 4.000 | No | Yes | 2.00 |
| 388 | 27.33 | 11.42 | 3.17 | 3.32 | 1.00 | 6.70 | 11.98 | 80.22 | 4.000 | No | Yes | 2.00 |
| 389 | 27.40 | 11.76 | 3.16 | 3.46 | 1.00 | 6.91 | 11.94 | 82.48 | 4.000 | No | Yes | 2.00 |
| 390 | 27.47 | 12.30 | 3.15 | 3.56 | 1.00 | 7.25 | 11.72 | 84.94 | 4.000 | No | Yes | 2.00 |
| 391 | 27.57 | 12.97 | 3.14 | 3.59 | 1.00 | 7.66 | 11.34 | 86.93 | 4.000 | No | Yes | 2.00 |
| 392 | 27.66 | 13.85 | 3.12 | 3.70 | 1.00 | 8.22 | 10.99 | 90.36 | 4.000 | No | Yes | 2.00 |
| 393 | 27.77 | 14.96 | 3.10 | 3.87 | 1.00 | 8.93 | 10.64 | 94.93 | 4.000 | No | Yes | 2.00 |
| 394 | 27.86 | 16.28 | 3.08 | 4.09 | 1.00 | 9.76 | 10.29 | 100.42 | 4.000 | No | Yes | 2.00 |
| 395 | 27.96 | 17.39 | 3.07 | 4.27 | 1.00 | 10.45 | 10.06 | 105.14 | 4.000 | No | Yes | 2.00 |
| 396 | 28.06 | 17.73 | 3.08 | 4.52 | 1.00 | 10.63 | 10.22 | 108.70 | 4.000 | No | Yes | 2.00 |
| 397 | 28.15 | 17.29 | 3.10 | 4.70 | 1.00 | 10.31 | 10.64 | 109.63 | 4.000 | No | Yes | 2.00 |
| 398 | 28.25 | 17.04 | 3.08 | 4.30 | 1.00 | 10.10 | 10.32 | 104.18 | 4.000 | No | Yes | 2.00 |
| 399 | 28.34 | 16.50 | 3.07 | 3.92 | 1.00 | 9.71 | 10.12 | 98.29 | 4.000 | No | Yes | 2.00 |
| 400 | 28.44 | 16.94 | 3.04 | 3.53 | 1.00 | 9.96 | 9.46 | 94.21 | 4.000 | No | Yes | 2.00 |
| 401 | 28.54 | 16.11 | 3.09 | 4.00 | 1.00 | 9.38 | 10.45 | 98.03 | 4.000 | No | Yes | 2.00 |
| 402 | 28.62 | 17.46 | 3.06 | 4.02 | 1.00 | 10.22 | 9.90 | 101.19 | 4.000 | No | Yes | 2.00 |
| 403 | 28.71 | 18.34 | 3.05 | 4.14 | 1.00 | 10.74 | 9.72 | 104.45 | 4.000 | No | Yes | 2.00 |
| 404 | 28.77 | 20.26 | 3.01 | 4.01 | 1.00 | 11.95 | 8.92 | 106.63 | 4.000 | No | Yes | 2.00 |
| 405 | 28.86 | 20.73 | 3.01 | 4.13 | 1.00 | 12.21 | 8.93 | 109.00 | 4.000 | No | Yes | 2.00 |
| 406 | 28.91 | 21.34 | 3.00 | 4.15 | 1.00 | 12.56 | 8.78 | 110.37 | 4.000 | No | Yes | 2.00 |
| 407 | 28.97 | 22.04 | 2.99 | 4.19 | 1.00 | 12.99 | 8.63 | 112.06 | 4.000 | No | Yes | 2.00 |
| 408 | 29.04 | 22.92 | 2.98 | 4.23 | 1.00 | 13.50 | 8.45 | 114.13 | 4.000 | No | Yes | 2.00 |
| 409 | 29.10 | 23.97 | 2.97 | 4.28 | 1.00 | 14.13 | 8.26 | 116.69 | 4.000 | No | Yes | 2.00 |
| 410 | 29.15 | 25.15 | 2.96 | 4.38 | 1.00 | 14.85 | 8.08 | 120.01 | 4.000 | No | Yes | 2.00 |
| 411 | 29.25 | 26.40 | 2.93 | 4.48 | 0.89 | 16.30 | 7.69 | 125.36 | 4.000 | No | Yes | 2.00 |
| 412 | 29.34 | 27.38 | 2.93 | 4.58 | 0.89 | 16.91 | 7.60 | 128.48 | 4.000 | No | Yes | 2.00 |
| 413 | 29.38 | 27.75 | 2.93 | 4.68 | 0.89 | 17.12 | 7.63 | 130.55 | 4.000 | No | Yes | 2.00 |
| 414 | 29.48 | 27.72 | 2.95 | 4.76 | 1.00 | 16.25 | 7.97 | 129.55 | 4.000 | No | Yes | 2.00 |
| 415 | 29.55 | 27.48 | 2.96 | 4.80 | 1.00 | 16.06 | 8.07 | 129.61 | 4.000 | Yes | Yes | 2.00 |
| 416 | 29.63 | 27.41 | 2.93 | 4.54 | 0.89 | 16.75 | 7.61 | 127.50 | 4.000 | Yes | Yes | 2.00 |
| 417 | 29.72 | 28.43 | 2.81 | 3.17 | 0.85 | 17.61 | 6.01 | 105.80 | 4.000 | Yes | Yes | 2.00 |
| 418 | 29.82 | 31.56 | 2.63 | 1.83 | 0.80 | 20.09 | 3.98 | 79.94 | 4.000 | Yes | Yes | 2.00 |
| 419 | 29.88 | 36.83 | 2.39 | 0.90 | 0.73 | 24.31 | 2.33 | 56.65 | 4.000 | Yes | No | 2.00 |
| 420 | 29.96 | 45.23 | 2.29 | 0.81 | 0.69 | 30.47 | 1.87 | 56.98 | 4.000 | Yes | No | 2.00 |
| 421 | 30.06 | 49.92 | 2.25 | 0.82 | 0.68 | 33.83 | 1.75 | 59.16 | 4.000 | Yes | No | 2.00 |
| 422 | 30.13 | 54.67 | 2.21 | 0.81 | 0.67 | 37.29 | 1.64 | 60.99 | 4.000 | Yes | No | 2.00 |
| 423 | 30.18 | 56.02 | 2.21 | 0.84 | 0.67 | 38.21 | 1.63 | 62.30 | 0.102 | No | No | 0.57 |
| 424 | 30.28 | 58.72 | 2.20 | 0.87 | 0.67 | 40.06 | 1.61 | 64.44 | 0.105 | No | No | 0.58 |
| 425 | 30.37 | 59.53 | 2.22 | 0.98 | 0.67 | 40.40 | 1.67 | 67.53 | 0.109 | No | No | 0.60 |
| 426 | 30.47 | 60.51 | 2.25 | 1.10 | 0.68 | 40.85 | 1.74 | 71.05 | 0.113 | No | No | 0.63 |
| 427 | 30.57 | 63.28 | 2.24 | 1.15 | 0.68 | 42.69 | 1.73 | 73.87 | 0.117 | No | No | 0.65 |
| 428 | 30.66 | 67.26 | 2.22 | 1.17 | 0.67 | 45.46 | 1.67 | 76.12 | 0.121 | No | No | 0.67 |
| 429 | 30.74 | 71.34 | 2.20 | 1.17 | 0.67 | 48.33 | 1.62 | 78.31 | 0.125 | No | No | 0.69 |
| 430 | 30.82 | 74.51 | 2.19 | 1.19 | 0.67 | 50.51 | 1.59 | 80.52 | 0.129 | No | No | 0.71 |
| 431 | 30.90 | 76.30 | 2.20 | 1.26 | 0.67 | 51.60 | 1.61 | 82.93 | 0.133 | No | No | 0.73 |
| 432 | 31.01 | 76.90 | 2.22 | 1.35 | 0.67 | 51.74 | 1.66 | 85.67 | 0.138 | No | No | 0.76 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 433 | 31.10 | 77.02 | 2.24 | 1.50 | 0.68 | 51.51 | 1.74 | 89.47 | 0.147 | No | No | 0.80 |
| 434 | 31.19 | 77.06 | 2.28 | 1.66 | 0.69 | 51.19 | 1.84 | 93.96 | 0.157 | No | No | 0.86 |
| 435 | 31.28 | 77.57 | 2.30 | 1.81 | 0.70 | 51.24 | 1.92 | 98.21 | 0.168 | No | No | 0.92 |
| 436 | 31.35 | 78.53 | 2.31 | 1.92 | 0.70 | 51.70 | 1.97 | 101.82 | 0.178 | No | No | 0.97 |
| 437 | 31.43 | 80.52 | 2.31 | 1.98 | 0.70 | 52.90 | 1.98 | 104.59 | 0.186 | No | No | 1.02 |
| 438 | 31.53 | 83.11 | 2.31 | 2.04 | 0.70 | 54.53 | 1.97 | 107.28 | 0.195 | No | No | 1.06 |
| 439 | 31.60 | 85.91 | 2.26 | 1.77 | 0.69 | 56.74 | 1.78 | 101.10 | 0.176 | No | No | 0.96 |
| 440 | 31.67 | 88.07 | 2.21 | 1.54 | 0.67 | 58.52 | 1.64 | 95.74 | 0.162 | No | No | 0.88 |
| 441 | 31.77 | 89.46 | 2.16 | 1.33 | 0.66 | 59.74 | 1.53 | 91.18 | 0.150 | No | No | 0.82 |
| 442 | 31.84 | 89.86 | 2.18 | 1.41 | 0.66 | 59.77 | 1.56 | 93.40 | 0.156 | No | No | 0.84 |
| 443 | 31.91 | 86.18 | 2.22 | 1.57 | 0.68 | 56.78 | 1.68 | 95.19 | 0.160 | No | No | 0.87 |
| 444 | 31.98 | 79.10 | 2.29 | 1.77 | 0.70 | 51.41 | 1.89 | 97.23 | 0.165 | No | No | 0.89 |
| 445 | 31.98 | 77.21 | 2.32 | 1.87 | 0.70 | 49.95 | 1.99 | 99.23 | 0.171 | No | No | 0.92 |
| 446 | 32.04 | 78.73 | 2.31 | 1.90 | 0.70 | 50.91 | 1.98 | 100.65 | 0.175 | No | No | 0.94 |
| 447 | 32.12 | 82.68 | 2.30 | 1.89 | 0.70 | 53.56 | 1.91 | 102.19 | 4.000 | Yes | No | 2.00 |
| 448 | 32.16 | 80.04 | 2.33 | 2.05 | 0.71 | 51.46 | 2.05 | 105.63 | 4.000 | Yes | No | 2.00 |
| 449 | 32.27 | 75.66 | 2.38 | 2.23 | 0.72 | 48.11 | 2.26 | 108.77 | 4.000 | Yes | No | 2.00 |
| 450 | 32.33 | 70.76 | 2.42 | 2.40 | 0.74 | 44.53 | 2.50 | 111.51 | 4.000 | Yes | No | 2.00 |
| 451 | 32.41 | 66.31 | 2.46 | 2.50 | 0.75 | 41.33 | 2.72 | 112.40 | 4.000 | Yes | No | 2.00 |
| 452 | 32.50 | 61.79 | 2.49 | 2.55 | 0.76 | 38.14 | 2.93 | 111.66 | 4.000 | Yes | No | 2.00 |
| 453 | 32.58 | 56.66 | 2.53 | 2.59 | 0.77 | 34.61 | 3.18 | 110.12 | 4.000 | Yes | No | 2.00 |
| 454 | 32.66 | 50.22 | 2.58 | 2.66 | 0.78 | 30.23 | 3.59 | 108.68 | 4.000 | Yes | No | 2.00 |
| 455 | 32.74 | 43.30 | 2.65 | 2.79 | 0.80 | 25.56 | 4.22 | 107.79 | 4.000 | Yes | Yes | 2.00 |
| 456 | 32.84 | 36.12 | 2.75 | 3.04 | 0.83 | 20.76 | 5.20 | 107.96 | 4.000 | Yes | Yes | 2.00 |
| 457 | 32.90 | 29.88 | 2.85 | 3.36 | 0.86 | 16.68 | 6.45 | 107.62 | 4.000 | Yes | Yes | 2.00 |
| 458 | 32.98 | 24.92 | 2.96 | 3.68 | 1.00 | 12.71 | 8.19 | 104.08 | 4.000 | Yes | Yes | 2.00 |
| 459 | 33.08 | 20.77 | 3.06 | 4.02 | 1.00 | 10.40 | 9.80 | 101.84 | 3.600 | No | Yes | 2.00 |
| 460 | 33.14 | 17.05 | 3.16 | 4.51 | 1.00 | 8.34 | 11.93 | 99.50 | 3.600 | No | Yes | 2.00 |
| 461 | 33.22 | 14.12 | 3.27 | 5.00 | 1.00 | 6.71 | 14.31 | 96.06 | 3.600 | No | Yes | 2.00 |
| 462 | 33.32 | 12.19 | 3.34 | 5.20 | 1.00 | 5.64 | 16.21 | 91.43 | 3.600 | No | Yes | 2.00 |
| 463 | 33.37 | 11.28 | 3.35 | 4.81 | 1.00 | 5.14 | 16.60 | 85.28 | 3.600 | No | Yes | 2.00 |
| 464 | 33.47 | 11.05 | 3.34 | 4.46 | 1.00 | 4.99 | 16.37 | 81.70 | 3.600 | No | Yes | 2.00 |
| 465 | 33.56 | 11.66 | 3.30 | 4.00 | 1.00 | 5.30 | 15.06 | 79.85 | 3.600 | No | Yes | 2.00 |
| 466 | 33.63 | 12.43 | 3.26 | 3.78 | 1.00 | 5.71 | 14.04 | 80.15 | 3.600 | No | Yes | 2.00 |
| 467 | 33.71 | 12.67 | 3.23 | 3.53 | 1.00 | 5.82 | 13.47 | 78.37 | 3.600 | No | Yes | 2.00 |
| 468 | 33.81 | 11.99 | 3.22 | 3.07 | 1.00 | 5.44 | 13.27 | 72.19 | 3.600 | No | Yes | 2.00 |
| 469 | 33.90 | 11.05 | 3.23 | 2.64 | 1.00 | 4.92 | 13.35 | 65.65 | 3.600 | No | Yes | 2.00 |
| 470 | 33.95 | 10.31 | 3.23 | 2.27 | 1.00 | 4.51 | 13.36 | 60.28 | 3.600 | No | Yes | 2.00 |
| 471 | 34.04 | 10.07 | 3.24 | 2.29 | 1.00 | 4.37 | 13.69 | 59.84 | 3.600 | No | Yes | 2.00 |
| 472 | 34.14 | 9.87 | 3.25 | 2.32 | 1.00 | 4.25 | 14.01 | 59.54 | 3.600 | No | Yes | 2.00 |
| 473 | 34.17 | 9.81 | 3.26 | 2.35 | 1.00 | 4.21 | 14.16 | 59.63 | 3.600 | No | Yes | 2.00 |
| 474 | 34.20 | 10.07 | 3.24 | 2.31 | 1.00 | 4.35 | 13.78 | 59.92 | 3.600 | No | Yes | 2.00 |
| 475 | 34.26 | 10.38 | 3.23 | 2.26 | 1.00 | 4.50 | 13.36 | 60.14 | 3.600 | No | Yes | 2.00 |
| 476 | 34.35 | 10.61 | 3.21 | 2.19 | 1.00 | 4.61 | 12.99 | 59.91 | 3.600 | No | Yes | 2.00 |
| 477 | 34.43 | 10.41 | 3.22 | 2.20 | 1.00 | 4.49 | 13.24 | 59.45 | 3.600 | No | Yes | 2.00 |
| 478 | 34.49 | 10.27 | 3.22 | 2.15 | 1.00 | 4.41 | 13.28 | 58.59 | 3.600 | No | Yes | 2.00 |
| 479 | 34.59 | 10.17 | 3.22 | 2.05 | 1.00 | 4.34 | 13.18 | 57.25 | 3.600 | No | Yes | 2.00 |
| 480 | 34.69 | 10.07 | 3.21 | 1.94 | 1.00 | 4.28 | 13.07 | 55.91 | 3.600 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 481 | 34.73 | 9.90 | 3.22 | 1.88 | 1.00 | 4.18 | 13.12 | 54.88 | 3.600 | No | Yes | 2.00 |
| 482 | 34.83 | 9.80 | 3.22 | 1.86 | 1.00 | 4.12 | 13.19 | 54.34 | 3.600 | No | Yes | 2.00 |
| 483 | 34.90 | 9.74 | 3.23 | 1.89 | 1.00 | 4.07 | 13.37 | 54.48 | 3.600 | No | Yes | 2.00 |
| 484 | 34.98 | 9.84 | 3.23 | 1.97 | 1.00 | 4.12 | 13.48 | 55.47 | 3.600 | No | Yes | 2.00 |
| 485 | 35.07 | 10.14 | 3.24 | 2.18 | 1.00 | 4.26 | 13.68 | 58.28 | 3.600 | No | Yes | 2.00 |
| 486 | 35.16 | 10.58 | 3.27 | 2.77 | 1.00 | 4.47 | 14.49 | 64.79 | 3.600 | No | Yes | 2.00 |
| 487 | 35.26 | 11.29 | 3.32 | 3.92 | 1.00 | 4.82 | 15.85 | 76.48 | 3.600 | No | Yes | 2.00 |
| 488 | 35.33 | 13.25 | 3.31 | 4.84 | 1.00 | 5.82 | 15.42 | 89.71 | 3.600 | No | Yes | 2.00 |
| 489 | 35.40 | 16.76 | 3.22 | 5.02 | 1.00 | 7.61 | 13.28 | 101.03 | 3.600 | No | Yes | 2.00 |
| 490 | 35.50 | 20.84 | 3.12 | 4.66 | 1.00 | 9.67 | 11.03 | 106.70 | 3.600 | No | Yes | 2.00 |
| 491 | 35.57 | 23.37 | 3.07 | 4.51 | 1.00 | 10.95 | 10.02 | 109.72 | 3.600 | No | Yes | 2.00 |
| 492 | 35.65 | 23.77 | 3.07 | 4.67 | 1.00 | 11.12 | 10.10 | 112.36 | 3.600 | No | Yes | 2.00 |
| 493 | 35.71 | 22.86 | 3.11 | 5.08 | 1.00 | 10.64 | 10.83 | 115.22 | 3.600 | No | Yes | 2.00 |
| 494 | 35.79 | 21.65 | 3.15 | 5.43 | 1.00 | 9.99 | 11.64 | 116.27 | 3.600 | No | Yes | 2.00 |
| 495 | 35.85 | 20.37 | 3.18 | 5.49 | 1.00 | 9.32 | 12.22 | 113.90 | 3.600 | No | Yes | 2.00 |
| 496 | 35.94 | 19.29 | 3.19 | 5.34 | 1.00 | 8.75 | 12.53 | 109.71 | 3.600 | No | Yes | 2.00 |
| 497 | 35.99 | 18.31 | 3.19 | 4.97 | 1.00 | 8.24 | 12.58 | 103.66 | 3.600 | No | Yes | 2.00 |
| 498 | 36.08 | 17.16 | 3.19 | 4.47 | 1.00 | 7.64 | 12.55 | 95.94 | 3.600 | No | Yes | 2.00 |
| 499 | 36.17 | 15.54 | 3.21 | 4.09 | 1.00 | 6.80 | 12.98 | 88.35 | 3.600 | No | Yes | 2.00 |
| 500 | 36.24 | 14.22 | 3.23 | 3.84 | 1.00 | 6.13 | 13.50 | 82.76 | 3.600 | No | Yes | 2.00 |
| 501 | 36.33 | 13.58 | 3.25 | 3.84 | 1.00 | 5.79 | 14.00 | 81.11 | 3.600 | No | Yes | 2.00 |
| 502 | 36.42 | 13.58 | 3.26 | 3.97 | 1.00 | 5.77 | 14.22 | 82.08 | 3.600 | No | Yes | 2.00 |
| 503 | 36.52 | 14.05 | 3.21 | 3.32 | 1.00 | 5.99 | 12.88 | 77.16 | 3.600 | No | Yes | 2.00 |
| 504 | 36.61 | 15.40 | 3.13 | 2.85 | 1.00 | 6.64 | 11.27 | 74.88 | 3.600 | No | Yes | 2.00 |
| 505 | 36.70 | 17.73 | 3.06 | 2.69 | 1.00 | 7.78 | 9.87 | 76.79 | 3.600 | No | Yes | 2.00 |
| 506 | 36.78 | 20.23 | 3.06 | 3.31 | 1.00 | 8.99 | 9.83 | 88.43 | 3.600 | No | Yes | 2.00 |
| 507 | 36.85 | 18.24 | 3.19 | 4.64 | 1.00 | 7.99 | 12.41 | 99.18 | 3.600 | No | Yes | 2.00 |
| 508 | 36.87 | 20.20 | 3.15 | 4.68 | 1.00 | 8.95 | 11.61 | 103.88 | 3.600 | No | Yes | 2.00 |
| 509 | 36.91 | 23.23 | 3.07 | 4.28 | 1.00 | 10.43 | 10.08 | 105.17 | 3.600 | No | Yes | 2.00 |
| 510 | 36.97 | 31.40 | 2.86 | 3.30 | 0.87 | 15.73 | 6.66 | 104.77 | 4.000 | Yes | Yes | 2.00 |
| 511 | 37.06 | 35.24 | 2.80 | 3.11 | 0.85 | 17.97 | 5.86 | 105.20 | 4.000 | Yes | Yes | 2.00 |
| 512 | 37.12 | 38.62 | 2.76 | 3.10 | 0.84 | 19.91 | 5.42 | 107.91 | 4.000 | Yes | Yes | 2.00 |
| 513 | 37.20 | 42.40 | 2.74 | 3.17 | 0.83 | 22.04 | 5.10 | 112.33 | 4.000 | Yes | Yes | 2.00 |
| 514 | 37.27 | 47.56 | 2.69 | 3.09 | 0.81 | 25.06 | 4.56 | 114.30 | 4.000 | Yes | Yes | 2.00 |
| 515 | 37.35 | 52.21 | 2.63 | 2.89 | 0.80 | 27.88 | 4.03 | 112.42 | 4.000 | Yes | Yes | 2.00 |
| 516 | 37.44 | 55.22 | 2.59 | 2.66 | 0.78 | 29.75 | 3.64 | 108.21 | 4.000 | Yes | No | 2.00 |
| 517 | 37.49 | 58.42 | 2.53 | 2.39 | 0.77 | 31.83 | 3.23 | 102.76 | 4.000 | Yes | No | 2.00 |
| 518 | 37.59 | 67.19 | 2.43 | 2.02 | 0.74 | 37.46 | 2.56 | 95.81 | 4.000 | Yes | No | 2.00 |
| 519 | 37.64 | 85.65 | 2.27 | 1.57 | 0.69 | 49.64 | 1.82 | 90.11 | 4.000 | Yes | No | 2.00 |
| 520 | 37.70 | 111.29 | 2.10 | 1.20 | 0.64 | 67.10 | 1.41 | 94.79 | 4.000 | Yes | No | 2.00 |
| 521 | 37.78 | 136.59 | 1.96 | 0.98 | 0.60 | 84.81 | 1.28 | 108.37 | 4.000 | Yes | No | 2.00 |
| 522 | 37.83 | 155.69 | 1.88 | 0.87 | 0.57 | 98.45 | 1.22 | 120.19 | 4.000 | Yes | No | 2.00 |
| 523 | 37.92 | 167.53 | 1.83 | 0.82 | 0.56 | 106.83 | 1.19 | 126.68 | 4.000 | Yes | No | 2.00 |
| 524 | 37.97 | 174.58 | 1.81 | 0.81 | 0.55 | 111.69 | 1.17 | 130.53 | 4.000 | Yes | No | 2.00 |
| 525 | 38.07 | 178.80 | 1.81 | 0.82 | 0.55 | 114.34 | 1.16 | 133.13 | 0.299 | No | No | 1.52 |
| 526 | 38.14 | 181.84 | 1.81 | 0.85 | 0.55 | 116.07 | 1.17 | 135.64 | 0.312 | No | No | 1.59 |
| 527 | 38.22 | 185.72 | 1.82 | 0.88 | 0.55 | 118.33 | 1.17 | 138.68 | 0.328 | No | No | 1.67 |
| 528 | 38.31 | 191.72 | 1.82 | 0.92 | 0.55 | 121.94 | 1.17 | 143.23 | 0.353 | No | No | 1.79 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 529 | 38.41 | 201.37 | 1.80 | 0.92 | 0.55 | 128.37 | 1.16 | 148.66 | 0.386 | No | No | 1.96 |
| 530 | 38.52 | 212.64 | 1.79 | 0.92 | 0.54 | 135.94 | 1.14 | 154.32 | 0.422 | No | No | 2.00 |
| 531 | 38.64 | 221.04 | 1.77 | 0.91 | 0.54 | 141.59 | 1.11 | 157.41 | 0.443 | No | No | 2.00 |
| 532 | 38.74 | 217.87 | 1.79 | 0.95 | 0.54 | 138.67 | 1.14 | 158.10 | 0.448 | No | No | 2.00 |
| 533 | 38.80 | 214.19 | 1.81 | 0.99 | 0.55 | 135.62 | 1.16 | 157.57 | 0.444 | No | No | 2.00 |
| 534 | 38.89 | 210.42 | 1.83 | 1.04 | 0.56 | 132.43 | 1.18 | 156.57 | 0.437 | No | No | 2.00 |
| 535 | 38.94 | 213.65 | 1.83 | 1.05 | 0.56 | 134.37 | 1.18 | 158.84 | 0.453 | No | No | 2.00 |
| 536 | 39.03 | 213.59 | 1.84 | 1.10 | 0.56 | 133.74 | 1.19 | 159.69 | 0.459 | No | No | 2.00 |
| 537 | 39.13 | 213.25 | 1.86 | 1.15 | 0.57 | 132.81 | 1.21 | 160.46 | 0.464 | No | No | 2.00 |
| 538 | 39.23 | 211.36 | 1.88 | 1.22 | 0.57 | 130.76 | 1.22 | 160.12 | 0.462 | No | No | 2.00 |
| 539 | 39.35 | 207.85 | 1.90 | 1.28 | 0.58 | 127.69 | 1.24 | 158.27 | 0.449 | No | No | 2.00 |
| 540 | 39.42 | 201.04 | 1.93 | 1.34 | 0.59 | 122.59 | 1.26 | 154.08 | 0.420 | No | No | 2.00 |
| 541 | 39.51 | 192.09 | 1.96 | 1.40 | 0.60 | 116.15 | 1.28 | 148.22 | 0.383 | No | No | 1.93 |
| 542 | 39.60 | 181.50 | 1.99 | 1.45 | 0.61 | 108.71 | 1.30 | 141.37 | 0.343 | No | No | 1.73 |
| 543 | 39.70 | 172.83 | 2.02 | 1.50 | 0.61 | 102.65 | 1.32 | 135.85 | 0.313 | No | No | 1.58 |
| 544 | 39.78 | 164.63 | 2.04 | 1.53 | 0.62 | 97.07 | 1.35 | 130.75 | 0.288 | No | No | 1.45 |
| 545 | 39.90 | 157.35 | 2.06 | 1.56 | 0.63 | 92.05 | 1.37 | 126.28 | 0.267 | No | No | 1.34 |
| 546 | 39.99 | 149.05 | 2.09 | 1.60 | 0.64 | 86.44 | 1.41 | 121.65 | 0.247 | No | No | 1.24 |
| 547 | 40.09 | 141.42 | 2.12 | 1.64 | 0.64 | 81.31 | 1.45 | 117.75 | 4.000 | Yes | No | 2.00 |
| 548 | 40.18 | 133.79 | 2.15 | 1.68 | 0.65 | 76.23 | 1.50 | 114.33 | 4.000 | Yes | No | 2.00 |
| 549 | 40.23 | 126.04 | 2.18 | 1.74 | 0.66 | 71.16 | 1.56 | 111.30 | 4.000 | Yes | No | 2.00 |
| 550 | 40.33 | 118.01 | 2.22 | 1.81 | 0.67 | 65.88 | 1.65 | 108.90 | 4.000 | Yes | No | 2.00 |
| 551 | 40.43 | 110.12 | 2.25 | 1.88 | 0.68 | 60.74 | 1.76 | 107.17 | 4.000 | Yes | No | 2.00 |
| 552 | 40.52 | 101.85 | 2.31 | 2.03 | 0.70 | 55.31 | 1.95 | 107.68 | 4.000 | Yes | No | 2.00 |
| 553 | 40.61 | 92.44 | 2.36 | 2.12 | 0.71 | 49.44 | 2.15 | 106.53 | 4.000 | Yes | No | 2.00 |
| 554 | 40.69 | 80.59 | 2.43 | 2.30 | 0.74 | 42.14 | 2.54 | 106.96 | 4.000 | Yes | No | 2.00 |
| 555 | 40.80 | 68.65 | 2.51 | 2.44 | 0.76 | 35.01 | 3.03 | 106.21 | 4.000 | Yes | No | 2.00 |
| 556 | 40.87 | 59.91 | 2.58 | 2.61 | 0.78 | 29.84 | 3.59 | 107.20 | 4.000 | Yes | No | 2.00 |
| 557 | 40.95 | 53.47 | 2.64 | 2.76 | 0.80 | 26.09 | 4.12 | 107.50 | 4.000 | Yes | Yes | 2.00 |
| 558 | 40.97 | 51.37 | 2.65 | 2.73 | 0.80 | 24.94 | 4.24 | 105.79 | 4.000 | Yes | Yes | 2.00 |
| 559 | 41.01 | 54.31 | 2.61 | 2.50 | 0.79 | 26.70 | 3.81 | 101.77 | 4.000 | Yes | Yes | 2.00 |
| 560 | 41.07 | 61.80 | 2.51 | 2.12 | 0.76 | 31.20 | 3.04 | 94.92 | 4.000 | Yes | No | 2.00 |
| 561 | 41.15 | 67.40 | 2.44 | 1.89 | 0.74 | 34.61 | 2.61 | 90.47 | 4.000 | Yes | No | 2.00 |
| 562 | 41.26 | 67.13 | 2.44 | 1.87 | 0.74 | 34.39 | 2.61 | 89.74 | 0.147 | No | No | 0.74 |
| 563 | 41.35 | 63.05 | 2.48 | 1.98 | 0.75 | 31.86 | 2.87 | 91.40 | 0.151 | No | No | 0.76 |
| 564 | 41.47 | 60.28 | 2.52 | 2.09 | 0.76 | 30.09 | 3.10 | 93.27 | 0.155 | No | No | 0.78 |
| 565 | 41.59 | 59.67 | 2.53 | 2.13 | 0.77 | 29.62 | 3.18 | 94.19 | 0.158 | No | No | 0.79 |
| 566 | 41.69 | 60.42 | 2.53 | 2.16 | 0.77 | 29.94 | 3.18 | 95.29 | 0.160 | No | No | 0.80 |
| 567 | 41.78 | 59.17 | 2.55 | 2.27 | 0.77 | 29.08 | 3.36 | 97.63 | 0.167 | No | No | 0.83 |
| 568 | 41.88 | 54.75 | 2.61 | 2.48 | 0.79 | 26.41 | 3.82 | 100.94 | 3.600 | No | Yes | 2.00 |
| 569 | 41.98 | 49.45 | 2.67 | 2.69 | 0.81 | 23.32 | 4.43 | 103.21 | 3.600 | No | Yes | 2.00 |
| 570 | 42.08 | 45.13 | 2.72 | 2.83 | 0.83 | 20.88 | 4.96 | 103.54 | 3.600 | No | Yes | 2.00 |
| 571 | 42.16 | 44.32 | 2.73 | 2.78 | 0.83 | 20.43 | 4.99 | 102.01 | 3.600 | No | Yes | 2.00 |
| 572 | 42.24 | 47.12 | 2.68 | 2.60 | 0.81 | 21.98 | 4.53 | 99.69 | 3.600 | No | Yes | 2.00 |
| 573 | 42.31 | 52.25 | 2.62 | 2.38 | 0.79 | 24.86 | 3.91 | 97.23 | 3.600 | No | Yes | 2.00 |
| 574 | 42.45 | 56.94 | 2.57 | 2.24 | 0.78 | 27.44 | 3.48 | 95.61 | 0.161 | No | No | 0.80 |
| 575 | 42.55 | 59.37 | 2.54 | 2.18 | 0.77 | 28.78 | 3.30 | 94.91 | 0.160 | No | No | 0.80 |
| 576 | 42.60 | 59.78 | 2.54 | 2.18 | 0.77 | 28.96 | 3.29 | 95.14 | 0.160 | No | No | 0.80 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 577 | 42.70 | 59.34 | 2.55 | 2.25 | 0.77 | 28.59 | 3.38 | 96.60 | 0.164 | No | No | 0.82 |
| 578 | 42.81 | 57.38 | 2.59 | 2.39 | 0.78 | 27.33 | 3.64 | 99.43 | 0.171 | No | No | 0.85 |
| 579 | 42.89 | 53.57 | 2.64 | 2.62 | 0.80 | 25.06 | 4.12 | 103.15 | 3.600 | No | Yes | 2.00 |
| 580 | 42.98 | 48.27 | 2.71 | 2.91 | 0.82 | 22.02 | 4.84 | 106.61 | 3.600 | No | Yes | 2.00 |
| 581 | 43.08 | 43.14 | 2.79 | 3.21 | 0.84 | 19.16 | 5.69 | 108.99 | 3.600 | No | Yes | 2.00 |
| 582 | 43.17 | 40.44 | 2.83 | 3.35 | 0.86 | 17.68 | 6.18 | 109.35 | 3.600 | No | Yes | 2.00 |
| 583 | 43.27 | 41.05 | 2.81 | 3.20 | 0.85 | 18.01 | 5.94 | 107.03 | 3.600 | No | Yes | 2.00 |
| 584 | 43.37 | 43.81 | 2.71 | 2.52 | 0.82 | 19.71 | 4.84 | 95.48 | 3.600 | No | Yes | 2.00 |
| 585 | 43.50 | 46.82 | 2.61 | 1.93 | 0.79 | 21.62 | 3.86 | 83.44 | 3.600 | No | Yes | 2.00 |
| 586 | 43.61 | 48.54 | 2.54 | 1.53 | 0.77 | 22.85 | 3.24 | 73.95 | 0.118 | No | No | 0.59 |
| 587 | 43.74 | 49.31 | 2.54 | 1.57 | 0.77 | 23.16 | 3.25 | 75.29 | 0.120 | No | No | 0.60 |
| 588 | 43.79 | 49.31 | 2.56 | 1.72 | 0.78 | 22.99 | 3.44 | 79.06 | 0.126 | No | No | 0.63 |
| 589 | 43.86 | 48.47 | 2.60 | 1.95 | 0.79 | 22.31 | 3.79 | 84.59 | 3.600 | No | Yes | 2.00 |
| 590 | 43.94 | 47.05 | 2.66 | 2.26 | 0.81 | 21.30 | 4.28 | 91.16 | 3.600 | No | Yes | 2.00 |
| 591 | 44.00 | 44.89 | 2.72 | 2.63 | 0.82 | 19.92 | 4.92 | 98.08 | 3.600 | No | Yes | 2.00 |
| 592 | 44.08 | 42.33 | 2.78 | 2.98 | 0.84 | 18.39 | 5.62 | 103.37 | 3.600 | No | Yes | 2.00 |
| 593 | 44.17 | 38.85 | 2.85 | 3.30 | 0.86 | 16.48 | 6.45 | 106.26 | 3.600 | No | Yes | 2.00 |
| 594 | 44.27 | 35.44 | 2.90 | 3.43 | 0.88 | 14.71 | 7.14 | 105.00 | 3.600 | No | Yes | 2.00 |
| 595 | 44.42 | 34.16 | 2.90 | 3.25 | 0.88 | 14.09 | 7.15 | 100.72 | 3.600 | No | Yes | 2.00 |
| 596 | 44.52 | 37.10 | 2.82 | 2.76 | 0.85 | 15.69 | 6.06 | 95.03 | 3.600 | No | Yes | 2.00 |
| 597 | 44.61 | 44.15 | 2.68 | 2.18 | 0.81 | 19.52 | 4.49 | 87.72 | 3.600 | No | Yes | 2.00 |
| 598 | 44.71 | 51.91 | 2.57 | 1.87 | 0.78 | 23.77 | 3.51 | 83.46 | 0.134 | No | No | 0.67 |
| 599 | 44.85 | 56.66 | 2.53 | 1.83 | 0.77 | 26.27 | 3.19 | 83.87 | 0.135 | No | No | 0.67 |
| 600 | 44.95 | 57.30 | 2.55 | 1.98 | 0.77 | 26.40 | 3.34 | 88.11 | 0.144 | No | No | 0.71 |
| 601 | 45.09 | 54.98 | 2.59 | 2.17 | 0.79 | 24.92 | 3.69 | 92.06 | 0.153 | No | No | 0.76 |
| 602 | 45.19 | 50.09 | 2.66 | 2.39 | 0.81 | 22.17 | 4.29 | 95.00 | 3.600 | No | Yes | 2.00 |
| 603 | 45.33 | 43.44 | 2.76 | 2.73 | 0.83 | 18.53 | 5.31 | 98.48 | 3.600 | No | Yes | 2.00 |
| 604 | 45.42 | 37.17 | 2.85 | 3.08 | 0.86 | 15.25 | 6.56 | 100.02 | 3.600 | No | Yes | 2.00 |
| 605 | 45.57 | 34.20 | 2.90 | 3.17 | 0.88 | 13.74 | 7.18 | 98.64 | 3.600 | No | Yes | 2.00 |
| 606 | 45.68 | 32.58 | 2.91 | 3.02 | 0.88 | 12.98 | 7.29 | 94.66 | 3.600 | No | Yes | 2.00 |
| 607 | 45.81 | 30.45 | 2.91 | 2.71 | 0.88 | 12.02 | 7.30 | 87.72 | 3.600 | No | Yes | 2.00 |
| 608 | 45.92 | 26.54 | 3.01 | 2.83 | 1.00 | 9.26 | 8.96 | 82.93 | 3.600 | No | Yes | 2.00 |
| 609 | 46.05 | 22.29 | 3.11 | 3.22 | 1.00 | 7.59 | 10.87 | 82.51 | 3.600 | No | Yes | 2.00 |
| 610 | 46.16 | 19.32 | 3.23 | 4.05 | 1.00 | 6.43 | 13.40 | 86.12 | 3.600 | No | Yes | 2.00 |
| 611 | 46.17 | 17.73 | 3.28 | 4.34 | 1.00 | 5.82 | 14.71 | 85.57 | 3.600 | No | Yes | 2.00 |
| 612 | 46.23 | 17.46 | 3.28 | 4.24 | 1.00 | 5.70 | 14.75 | 84.09 | 3.600 | No | Yes | 2.00 |
| 613 | 46.29 | 16.85 | 3.29 | 4.16 | 1.00 | 5.46 | 15.02 | 82.02 | 3.600 | No | Yes | 2.00 |
| 614 | 46.34 | 16.04 | 3.31 | 3.98 | 1.00 | 5.15 | 15.32 | 78.81 | 3.600 | No | Yes | 2.00 |
| 615 | 46.42 | 15.30 | 3.31 | 3.71 | 1.00 | 4.85 | 15.44 | 74.90 | 3.600 | No | Yes | 2.00 |
| 616 | 46.48 | 14.90 | 3.30 | 3.33 | 1.00 | 4.69 | 15.10 | 70.80 | 3.600 | No | Yes | 2.00 |
| 617 | 46.52 | 14.69 | 3.28 | 3.04 | 1.00 | 4.61 | 14.73 | 67.86 | 3.600 | No | Yes | 2.00 |
| 618 | 46.60 | 14.56 | 3.27 | 2.84 | 1.00 | 4.55 | 14.47 | 65.79 | 3.600 | No | Yes | 2.00 |
| 619 | 46.67 | 14.49 | 3.26 | 2.68 | 1.00 | 4.51 | 14.23 | 64.21 | 3.600 | No | Yes | 2.00 |
| 620 | 46.74 | 14.45 | 3.25 | 2.57 | 1.00 | 4.49 | 14.03 | 63.02 | 3.600 | No | Yes | 2.00 |
| 621 | 46.82 | 14.42 | 3.25 | 2.46 | 1.00 | 4.47 | 13.84 | 61.88 | 3.600 | No | Yes | 2.00 |
| 622 | 46.88 | 14.19 | 3.25 | 2.42 | 1.00 | 4.37 | 13.96 | 61.07 | 3.600 | No | Yes | 2.00 |
| 623 | 46.96 | 14.10 | 3.25 | 2.39 | 1.00 | 4.33 | 13.99 | 60.61 | 3.600 | No | Yes | 2.00 |
| 624 | 47.06 | 13.97 | 3.26 | 2.41 | 1.00 | 4.27 | 14.16 | 60.52 | 3.600 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 625 | 47.15 | 14.11 | 3.26 | 2.45 | 1.00 | 4.31 | 14.15 | 61.03 | 3.600 | No | Yes | 2.00 |
| 626 | 47.24 | 14.43 | 3.28 | 2.83 | 1.00 | 4.42 | 14.72 | 65.10 | 3.600 | No | Yes | 2.00 |
| 627 | 47.35 | 16.18 | 3.29 | 3.62 | 1.00 | 5.07 | 14.87 | 75.39 | 3.600 | No | Yes | 2.00 |
| 628 | 47.49 | 19.69 | 3.20 | 3.51 | 1.00 | 6.36 | 12.67 | 80.67 | 3.600 | No | Yes | 2.00 |
| 629 | 47.58 | 24.11 | 3.09 | 3.10 | 1.00 | 8.00 | 10.33 | 82.65 | 3.600 | No | Yes | 2.00 |
| 630 | 47.73 | 26.03 | 3.03 | 2.80 | 1.00 | 8.69 | 9.32 | 80.95 | 3.600 | No | Yes | 2.00 |
| 631 | 47.83 | 27.06 | 3.02 | 2.79 | 1.00 | 9.05 | 9.05 | 81.84 | 3.600 | No | Yes | 2.00 |
| 632 | 47.87 | 26.18 | 3.04 | 2.97 | 1.00 | 8.71 | 9.55 | 83.19 | 3.600 | No | Yes | 2.00 |
| 633 | 47.89 | 26.93 | 3.02 | 2.82 | 1.00 | 8.98 | 9.14 | 82.12 | 3.600 | No | Yes | 2.00 |
| 634 | 47.94 | 26.64 | 3.02 | 2.81 | 1.00 | 8.87 | 9.20 | 81.59 | 3.600 | No | Yes | 2.00 |
| 635 | 48.02 | 26.81 | 3.02 | 2.75 | 1.00 | 8.91 | 9.08 | 80.90 | 3.600 | No | Yes | 2.00 |
| 636 | 48.07 | 26.40 | 3.03 | 2.79 | 1.00 | 8.75 | 9.26 | 81.07 | 3.600 | No | Yes | 2.00 |
| 637 | 48.12 | 25.97 | 3.05 | 2.94 | 1.00 | 8.58 | 9.61 | 82.45 | 3.600 | No | Yes | 2.00 |
| 638 | 48.18 | 25.43 | 3.07 | 3.12 | 1.00 | 8.37 | 10.05 | 84.09 | 3.600 | No | Yes | 2.00 |
| 639 | 48.26 | 25.01 | 3.09 | 3.28 | 1.00 | 8.20 | 10.42 | 85.42 | 3.600 | No | Yes | 2.00 |
| 640 | 48.31 | 24.60 | 3.10 | 3.27 | 1.00 | 8.04 | 10.54 | 84.77 | 3.600 | No | Yes | 2.00 |
| 641 | 48.38 | 24.56 | 3.08 | 3.09 | 1.00 | 8.01 | 10.30 | 82.58 | 3.600 | No | Yes | 2.00 |
| 642 | 48.46 | 24.71 | 3.06 | 2.82 | 1.00 | 8.05 | 9.85 | 79.31 | 3.600 | No | Yes | 2.00 |
| 643 | 48.52 | 24.41 | 3.05 | 2.59 | 1.00 | 7.93 | 9.58 | 75.99 | 3.600 | No | Yes | 2.00 |
| 644 | 48.60 | 23.16 | 3.05 | 2.42 | 1.00 | 7.46 | 9.70 | 72.40 | 3.600 | No | Yes | 2.00 |
| 645 | 48.68 | 20.77 | 3.10 | 2.41 | 1.00 | 6.57 | 10.59 | 69.64 | 3.600 | No | Yes | 2.00 |
| 646 | 48.74 | 18.20 | 3.17 | 2.55 | 1.00 | 5.63 | 12.04 | 67.76 | 3.600 | No | Yes | 2.00 |
| 647 | 48.82 | 15.94 | 3.25 | 2.86 | 1.00 | 4.80 | 14.01 | 67.24 | 3.600 | No | Yes | 2.00 |
| 648 | 48.89 | 14.56 | 3.31 | 3.07 | 1.00 | 4.29 | 15.49 | 66.41 | 3.600 | No | Yes | 2.00 |
| 649 | 48.99 | 13.82 | 3.34 | 3.08 | 1.00 | 4.01 | 16.21 | 64.98 | 3.600 | No | Yes | 2.00 |
| 650 | 49.05 | 13.65 | 3.32 | 2.83 | 1.00 | 3.94 | 15.85 | 62.48 | 3.600 | No | Yes | 2.00 |
| 651 | 49.12 | 13.51 | 3.31 | 2.54 | 1.00 | 3.89 | 15.38 | 59.74 | 3.600 | No | Yes | 2.00 |
| 652 | 49.18 | 13.55 | 3.28 | 2.25 | 1.00 | 3.89 | 14.70 | 57.20 | 3.600 | No | Yes | 2.00 |
| 653 | 49.27 | 13.75 | 3.26 | 2.06 | 1.00 | 3.96 | 14.08 | 55.71 | 3.600 | No | Yes | 2.00 |
| 654 | 49.32 | 13.92 | 3.24 | 1.91 | 1.00 | 4.01 | 13.56 | 54.42 | 3.600 | No | Yes | 2.00 |
| 655 | 49.42 | 13.55 | 3.25 | 1.92 | 1.00 | 3.87 | 13.92 | 53.88 | 3.600 | No | Yes | 2.00 |
| 656 | 49.48 | 13.11 | 3.27 | 1.97 | 1.00 | 3.71 | 14.46 | 53.63 | 3.600 | No | Yes | 2.00 |
| 657 | 49.56 | 13.01 | 3.28 | 2.04 | 1.00 | 3.66 | 14.76 | 54.09 | 3.600 | No | Yes | 2.00 |
| 658 | 49.66 | 13.28 | 3.28 | 2.12 | 1.00 | 3.75 | 14.73 | 55.25 | 3.600 | No | Yes | 2.00 |
| 659 | 49.76 | 13.68 | 3.27 | 2.16 | 1.00 | 3.89 | 14.49 | 56.33 | 3.600 | No | Yes | 2.00 |
| 660 | 49.85 | 14.06 | 3.23 | 1.87 | 1.00 | 4.01 | 13.46 | 54.00 | 3.600 | No | Yes | 2.00 |
| 661 | 49.99 | 14.87 | 3.17 | 1.52 | 1.00 | 4.29 | 11.96 | 51.28 | 3.600 | No | Yes | 2.00 |
| 662 | 50.09 | 14.43 | 3.16 | 1.38 | 1.00 | 4.12 | 11.90 | 49.07 | 3.600 | No | Yes | 2.00 |
| 663 | 50.21 | 13.82 | 3.21 | 1.57 | 1.00 | 3.89 | 12.94 | 50.39 | 3.600 | No | Yes | 2.00 |
| 664 | 50.24 | 13.21 | 3.24 | 1.66 | 1.00 | 3.68 | 13.72 | 50.47 | 3.600 | No | Yes | 2.00 |
| 665 | 50.29 | 13.59 | 3.21 | 1.54 | 1.00 | 3.81 | 13.05 | 49.66 | 3.600 | No | Yes | 2.00 |
| 666 | 50.38 | 13.69 | 3.20 | 1.45 | 1.00 | 3.83 | 12.73 | 48.82 | 3.600 | No | Yes | 2.00 |
| 667 | 50.47 | 13.39 | 3.21 | 1.45 | 1.00 | 3.72 | 13.00 | 48.36 | 3.600 | No | Yes | 2.00 |
| 668 | 50.52 | 12.98 | 3.24 | 1.53 | 1.00 | 3.57 | 13.61 | 48.61 | 3.600 | No | Yes | 2.00 |
| 669 | 50.62 | 13.01 | 3.24 | 1.57 | 1.00 | 3.58 | 13.73 | 49.09 | 3.600 | No | Yes | 2.00 |
| 670 | 50.66 | 13.15 | 3.24 | 1.60 | 1.00 | 3.62 | 13.70 | 49.58 | 3.600 | No | Yes | 2.00 |
| 671 | 50.76 | 13.28 | 3.24 | 1.64 | 1.00 | 3.66 | 13.70 | 50.11 | 3.600 | No | Yes | 2.00 |
| 672 | 50.83 | 14.13 | 3.21 | 1.63 | 1.00 | 3.95 | 12.99 | 51.29 | 3.600 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 673 | 50.91 | 14.30 | 3.23 | 1.81 | 1.00 | 4.00 | 13.34 | 53.36 | 3.600 | No | Yes | 2.00 |
| 674 | 51.00 | 15.61 | 3.19 | 1.82 | 1.00 | 4.45 | 12.42 | 55.29 | 3.600 | No | Yes | 2.00 |
| 675 | 51.06 | 17.36 | 3.13 | 1.78 | 1.00 | 5.06 | 11.27 | 56.99 | 3.600 | No | Yes | 2.00 |
| 676 | 51.15 | 17.67 | 3.16 | 2.10 | 1.00 | 5.15 | 11.86 | 61.08 | 3.600 | No | Yes | 2.00 |
| 677 | 51.24 | 16.35 | 3.27 | 2.96 | 1.00 | 4.68 | 14.43 | 67.57 | 3.600 | No | Yes | 2.00 |
| 678 | 51.31 | 12.88 | 3.51 | 5.15 | 1.00 | 3.47 | 21.69 | 75.27 | 3.600 | No | Yes | 2.00 |
| 679 | 51.39 | 18.55 | 3.28 | 3.96 | 1.00 | 5.43 | 14.77 | 80.15 | 3.600 | No | Yes | 2.00 |
| 680 | 51.48 | 32.14 | 2.90 | 2.47 | 0.88 | 11.43 | 7.23 | 82.64 | 3.600 | No | Yes | 2.00 |
| 681 | 51.58 | 35.38 | 2.87 | 2.60 | 0.87 | 12.78 | 6.83 | 87.30 | 3.600 | No | Yes | 2.00 |
| 682 | 51.68 | 27.82 | 3.10 | 3.71 | 1.00 | 8.59 | 10.70 | 91.85 | 3.600 | No | Yes | 2.00 |
| 683 | 51.77 | 17.84 | 3.45 | 6.98 | 1.00 | 5.13 | 19.49 | 100.06 | 3.600 | No | Yes | 2.00 |
| 684 | 51.90 | 36.80 | 3.02 | 4.07 | 1.00 | 11.62 | 9.16 | 106.47 | 3.600 | No | Yes | 2.00 |
| 685 | 52.01 | 74.42 | 2.58 | 2.71 | 0.78 | 30.49 | 3.61 | 110.20 | 4.000 | Yes | No | 2.00 |
| 686 | 52.11 | 128.50 | 2.34 | 2.42 | 0.71 | 57.50 | 2.11 | 121.05 | 4.000 | Yes | No | 2.00 |
| 687 | 52.26 | 161.87 | 2.25 | 2.35 | 0.68 | 74.64 | 1.77 | 131.90 | 4.000 | Yes | No | 2.00 |
| 688 | 52.30 | 209.17 | 2.12 | 2.06 | 0.65 | 100.78 | 1.45 | 146.55 | 4.000 | Yes | No | 2.00 |
| 689 | 52.33 | 248.44 | 2.00 | 1.70 | 0.61 | 124.60 | 1.31 | 162.63 | 4.000 | Yes | No | 2.00 |
| 690 | 52.35 | 302.93 | 1.87 | 1.40 | 0.57 | 158.50 | 1.21 | 192.22 | 4.000 | Yes | No | 2.00 |
| 691 | 52.40 | 347.53 | 1.78 | 1.23 | 0.54 | 187.07 | 1.12 | 209.95 | 4.000 | Yes | No | 2.00 |
| 692 | 52.45 | 381.51 | 1.72 | 1.16 | 0.53 | 208.63 | 1.04 | 216.58 | 4.000 | Yes | No | 2.00 |
| 693 | 52.50 | 415.58 | 1.69 | 1.13 | 0.51 | 229.89 | 1.00 | 229.89 | 4.000 | No | No | 2.00 |
| 694 | 52.55 | 447.33 | 1.67 | 1.14 | 0.51 | 248.98 | 1.00 | 248.98 | 4.000 | No | No | 2.00 |
| 695 | 52.60 | 486.53 | 1.63 | 1.11 | 0.50 | 273.15 | 1.00 | 273.15 | 4.000 | No | No | 2.00 |
| 696 | 52.65 | 516.02 | 1.60 | 1.04 | 0.50 | 289.64 | 1.00 | 289.64 | 4.000 | No | No | 2.00 |
| 697 | 52.71 | 531.14 | 1.57 | 0.97 | 0.50 | 297.95 | 1.00 | 297.95 | 4.000 | No | No | 2.00 |
| 698 | 52.77 | 541.83 | 1.53 | 0.90 | 0.50 | 303.79 | 1.00 | 303.79 | 4.000 | No | No | 2.00 |
| 699 | 52.82 | 558.50 | 1.51 | 0.85 | 0.50 | 312.99 | 1.00 | 312.99 | 4.000 | No | No | 2.00 |
| 700 | 52.88 | 578.13 | 1.48 | 0.81 | 0.50 | 323.84 | 1.00 | 323.84 | 4.000 | No | No | 2.00 |
| 701 | 52.93 | 592.07 | 1.46 | 0.79 | 0.50 | 331.46 | 1.00 | 331.46 | 4.000 | No | No | 2.00 |
| 702 | 52.98 | 605.70 | 1.46 | 0.78 | 0.50 | 338.95 | 1.00 | 338.95 | 4.000 | No | No | 2.00 |
| 703 | 53.03 | 608.64 | 1.46 | 0.79 | 0.50 | 340.39 | 1.00 | 340.39 | 4.000 | No | No | 2.00 |
| 704 | 53.08 | 608.27 | 1.46 | 0.80 | 0.50 | 340.01 | 1.00 | 340.01 | 4.000 | No | No | 2.00 |
| 705 | 53.12 | 601.01 | 1.47 | 0.80 | 0.50 | 335.78 | 1.00 | 335.78 | 4.000 | No | No | 2.00 |
| 706 | 53.17 | 598.22 | 1.46 | 0.78 | 0.50 | 333.99 | 1.00 | 333.99 | 4.000 | No | No | 2.00 |
| 707 | 53.23 | 600.71 | 1.45 | 0.76 | 0.50 | 335.19 | 1.00 | 335.19 | 4.000 | No | No | 2.00 |
| 708 | 53.28 | 596.23 | 1.47 | 0.79 | 0.50 | 332.45 | 1.00 | 332.45 | 4.000 | No | No | 2.00 |
| 709 | 53.37 | 588.50 | 1.48 | 0.83 | 0.50 | 327.80 | 1.00 | 327.80 | 4.000 | No | No | 2.00 |
| 710 | 53.42 | 584.11 | 1.50 | 0.86 | 0.50 | 325.17 | 1.00 | 325.17 | 4.000 | No | No | 2.00 |
| 711 | 53.46 | 586.81 | 1.52 | 0.90 | 0.50 | 326.50 | 1.00 | 326.50 | 4.000 | No | No | 2.00 |
| 712 | 53.53 | 599.03 | 1.53 | 0.96 | 0.50 | 333.09 | 1.00 | 333.09 | 4.000 | No | No | 2.00 |
| 713 | 53.61 | 597.34 | 1.56 | 1.05 | 0.50 | 331.84 | 1.00 | 331.84 | 4.000 | No | No | 2.00 |
| 714 | 53.62 | 582.26 | 1.60 | 1.13 | 0.50 | 323.39 | 1.00 | 323.39 | 4.000 | No | No | 2.00 |
| 715 | 53.65 | 574.05 | 1.60 | 1.15 | 0.50 | 318.67 | 1.00 | 318.67 | 4.000 | No | No | 2.00 |
| 716 | 53.67 | 571.35 | 1.61 | 1.16 | 0.50 | 317.12 | 1.00 | 317.12 | 4.000 | No | No | 2.00 |
| 717 | 53.70 | 583.83 | 1.59 | 1.12 | 0.50 | 323.95 | 1.00 | 323.95 | 4.000 | No | No | 2.00 |
| 718 | 53.74 | 582.83 | 1.60 | 1.14 | 0.50 | 323.26 | 1.00 | 323.26 | 4.000 | No | No | 2.00 |
| 719 | 53.76 | 583.81 | 1.60 | 1.14 | 0.50 | 323.74 | 1.00 | 323.74 | 4.000 | No | No | 2.00 |
| 720 | 53.80 | 581.08 | 1.59 | 1.13 | 0.50 | 322.06 | 1.00 | 322.06 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 721 | 53.84 | 577.81 | 1.59 | 1.10 | 0.50 | 320.07 | 1.00 | 320.07 | 4.000 | No | No | 2.00 |
| 722 | 53.90 | 578.23 | 1.58 | 1.07 | 0.50 | 320.12 | 1.00 | 320.12 | 4.000 | No | No | 2.00 |
| 723 | 53.91 | 570.20 | 1.59 | 1.08 | 0.50 | 315.61 | 1.00 | 315.61 | 4.000 | No | No | 2.00 |
| 724 | 53.95 | 573.64 | 1.58 | 1.08 | 0.50 | 317.38 | 1.00 | 317.38 | 4.000 | No | No | 2.00 |
| 725 | 53.96 | 579.94 | 1.58 | 1.07 | 0.50 | 320.83 | 1.00 | 320.83 | 4.000 | No | No | 2.00 |
| 726 | 53.98 | 601.06 | 1.56 | 1.04 | 0.50 | 332.48 | 1.00 | 332.48 | 4.000 | No | No | 2.00 |
| 727 | 53.99 | 602.95 | 1.56 | 1.03 | 0.50 | 333.50 | 1.00 | 333.50 | 4.000 | No | No | 2.00 |
| 728 | 54.01 | 592.15 | 1.57 | 1.05 | 0.50 | 327.46 | 1.00 | 327.46 | 4.000 | No | No | 2.00 |
| 729 | 54.02 | 579.33 | 1.58 | 1.08 | 0.50 | 320.31 | 1.00 | 320.31 | 4.000 | No | No | 2.00 |
| 730 | 54.03 | 553.15 | 1.61 | 1.13 | 0.50 | 305.74 | 1.00 | 305.74 | 4.000 | No | No | 2.00 |
| 731 | 54.04 | 504.84 | 1.67 | 1.24 | 0.51 | 276.21 | 1.00 | 276.21 | 4.000 | No | No | 2.00 |
| 732 | 54.05 | 452.17 | 1.75 | 1.40 | 0.53 | 241.19 | 1.08 | 260.14 | 4.000 | No | No | 2.00 |
| 733 | 54.09 | 422.63 | 1.79 | 1.51 | 0.55 | 221.81 | 1.15 | 254.46 | 4.000 | No | No | 2.00 |
| 734 | 54.10 | 421.59 | 1.80 | 1.53 | 0.55 | 220.94 | 1.15 | 254.57 | 4.000 | No | No | 2.00 |
| 735 | 54.13 | 421.89 | 1.80 | 1.53 | 0.55 | 221.06 | 1.15 | 254.64 | 4.000 | No | No | 2.00 |
| 736 | 54.14 | 420.96 | 1.80 | 1.54 | 0.55 | 220.34 | 1.16 | 254.59 | 4.000 | No | No | 2.00 |
| 737 | 54.19 | 422.82 | 1.80 | 1.54 | 0.55 | 221.19 | 1.16 | 255.77 | 4.000 | No | No | 2.00 |
| 738 | 54.19 | 428.79 | 1.80 | 1.55 | 0.55 | 224.52 | 1.15 | 258.95 | 4.000 | No | No | 2.00 |
| 739 | 54.24 | 439.22 | 1.77 | 1.47 | 0.54 | 231.86 | 1.12 | 259.93 | 4.000 | No | No | 2.00 |
| 740 | 54.29 | 456.97 | 1.71 | 1.29 | 0.52 | 245.94 | 1.02 | 249.88 | 4.000 | No | No | 2.00 |
| 741 | 54.33 | 474.10 | 1.64 | 1.08 | 0.50 | 261.31 | 1.00 | 261.31 | 4.000 | No | No | 2.00 |
| 742 | 54.38 | 494.95 | 1.57 | 0.92 | 0.50 | 272.80 | 1.00 | 272.80 | 4.000 | No | No | 2.00 |
| 743 | 54.39 | 512.70 | 1.53 | 0.85 | 0.50 | 282.62 | 1.00 | 282.62 | 4.000 | No | No | 2.00 |
| 744 | 54.43 | 529.13 | 1.52 | 0.84 | 0.50 | 291.66 | 1.00 | 291.66 | 4.000 | No | No | 2.00 |
| 745 | 54.48 | 543.10 | 1.44 | 0.67 | 0.50 | 299.32 | 1.00 | 299.32 | 4.000 | No | No | 2.00 |
| 746 | 54.52 | 556.66 | 1.36 | 0.53 | 0.50 | 306.76 | 1.00 | 306.76 | 4.000 | No | No | 2.00 |
| 747 | 54.58 | 573.87 | 1.26 | 0.38 | 0.50 | 316.20 | 1.00 | 316.20 | 4.000 | No | No | 2.00 |
| 748 | 54.62 | 587.13 | 1.28 | 0.42 | 0.50 | 323.46 | 1.00 | 323.46 | 4.000 | No | No | 2.00 |
| 749 | 54.65 | 604.44 | 1.29 | 0.46 | 0.50 | 333.00 | 1.00 | 333.00 | 4.000 | No | No | 2.00 |
| 750 | 54.67 | 623.33 | 1.30 | 0.48 | 0.50 | 343.41 | 1.00 | 343.41 | 4.000 | No | No | 2.00 |
| 751 | 54.71 | 658.15 | 1.28 | 0.48 | 0.50 | 362.60 | 1.00 | 362.60 | 4.000 | No | No | 2.00 |
| 752 | 54.77 | 679.34 | 1.20 | 0.37 | 0.50 | 374.21 | 1.00 | 374.21 | 4.000 | No | No | 2.00 |
| 753 | 54.81 | 702.99 | 1.11 | 0.28 | 0.50 | 387.19 | 1.00 | 387.19 | 4.000 | No | No | 2.00 |
| 754 | 54.85 | 704.07 | 1.04 | 0.22 | 0.50 | 387.70 | 1.00 | 387.70 | 4.000 | No | No | 2.00 |
| 755 | 54.86 | 709.13 | 1.06 | 0.24 | 0.50 | 390.48 | 1.00 | 390.48 | 4.000 | No | No | 2.00 |
| 756 | 54.87 | 703.33 | 1.09 | 0.27 | 0.50 | 387.26 | 1.00 | 387.26 | 4.000 | No | No | 2.00 |
| 757 | 54.91 | 703.66 | 1.13 | 0.30 | 0.50 | 387.35 | 1.00 | 387.35 | 4.000 | No | No | 2.00 |
| 758 | 54.96 | 707.14 | 1.16 | 0.34 | 0.50 | 389.17 | 1.00 | 389.17 | 4.000 | No | No | 2.00 |
| 759 | 55.00 | 703.19 | 1.18 | 0.36 | 0.50 | 386.89 | 1.00 | 386.89 | 4.000 | No | No | 2.00 |
| 760 | 55.01 | 695.84 | 1.19 | 0.37 | 0.50 | 382.82 | 1.00 | 382.82 | 4.000 | No | No | 2.00 |
| 761 | 55.05 | 679.11 | 1.21 | 0.39 | 0.50 | 373.47 | 1.00 | 373.47 | 4.000 | No | No | 2.00 |
| 762 | 55.10 | 651.07 | 1.24 | 0.42 | 0.50 | 357.87 | 1.00 | 357.87 | 4.000 | No | No | 2.00 |
| 763 | 55.12 | 603.77 | 1.29 | 0.46 | 0.50 | 331.72 | 1.00 | 331.72 | 4.000 | No | No | 2.00 |
| 764 | 55.13 | 570.97 | 1.33 | 0.49 | 0.50 | 313.58 | 1.00 | 313.58 | 4.000 | No | No | 2.00 |
| 765 | 55.14 | 563.11 | 1.33 | 0.48 | 0.50 | 309.22 | 1.00 | 309.22 | 4.000 | No | No | 2.00 |
| 766 | 55.19 | 576.91 | 1.31 | 0.46 | 0.50 | 316.75 | 1.00 | 316.75 | 4.000 | No | No | 2.00 |
| 767 | 55.20 | 576.27 | 1.31 | 0.46 | 0.50 | 316.38 | 1.00 | 316.38 | 4.000 | No | No | 2.00 |
| 768 | 55.25 | 562.13 | 1.33 | 0.48 | 0.50 | 308.48 | 1.00 | 308.48 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 769 | 55.29 | 546.07 | 1.37 | 0.52 | 0.50 | 299.55 | 1.00 | 299.55 | 4.000 | No | No | 2.00 |
| 770 | 55.33 | 519.69 | 1.42 | 0.59 | 0.50 | 284.92 | 1.00 | 284.92 | 4.000 | No | No | 2.00 |
| 771 | 55.38 | 481.16 | 1.52 | 0.76 | 0.50 | 263.59 | 1.00 | 263.59 | 4.000 | No | No | 2.00 |
| 772 | 55.48 | 439.32 | 1.63 | 0.99 | 0.50 | 240.38 | 1.00 | 240.38 | 4.000 | No | No | 2.00 |
| 773 | 55.57 | 411.39 | 1.73 | 1.22 | 0.53 | 218.55 | 1.04 | 227.87 | 4.000 | No | No | 2.00 |
| 774 | 55.63 | 398.09 | 1.80 | 1.45 | 0.55 | 206.42 | 1.15 | 237.94 | 4.000 | No | No | 2.00 |
| 775 | 55.72 | 402.04 | 1.83 | 1.60 | 0.56 | 206.08 | 1.19 | 244.53 | 4.000 | No | No | 2.00 |
| 776 | 55.80 | 431.09 | 1.82 | 1.63 | 0.55 | 221.88 | 1.17 | 260.68 | 4.000 | No | No | 2.00 |
| 777 | 55.86 | 480.55 | 1.67 | 1.19 | 0.51 | 259.76 | 1.00 | 259.76 | 4.000 | No | No | 2.00 |
| 778 | 55.97 | 527.85 | 1.51 | 0.79 | 0.50 | 288.32 | 1.00 | 288.32 | 4.000 | No | No | 2.00 |
| 779 | 56.01 | 560.55 | 1.34 | 0.49 | 0.50 | 306.20 | 1.00 | 306.20 | 4.000 | No | No | 2.00 |
| 780 | 56.06 | 587.84 | 1.50 | 0.47 | 1.00 | 186.61 | 1.00 | 186.61 | 0.684 | No | No | 2.00 |
| 781 | 56.11 | 613.11 | 1.50 | 0.51 | 1.00 | 194.57 | 1.00 | 194.57 | 0.765 | No | No | 2.00 |
| 782 | 56.15 | 640.71 | 1.51 | 0.55 | 1.00 | 203.27 | 1.00 | 203.27 | 4.000 | No | No | 2.00 |
| 783 | 56.20 | 660.92 | 1.52 | 0.59 | 1.00 | 209.60 | 1.00 | 209.60 | 4.000 | No | No | 2.00 |
| 784 | 56.27 | 663.16 | 1.53 | 0.63 | 1.00 | 210.15 | 1.00 | 210.15 | 4.000 | No | No | 2.00 |
| 785 | 56.27 | 664.17 | 1.56 | 0.69 | 1.00 | 210.45 | 1.00 | 210.45 | 4.000 | No | No | 2.00 |
| 786 | 56.30 | 642.20 | 1.61 | 0.79 | 1.00 | 203.39 | 1.00 | 203.39 | 4.000 | No | No | 2.00 |
| 787 | 56.33 | 649.54 | 1.64 | 0.87 | 1.00 | 205.64 | 1.00 | 205.64 | 4.000 | No | No | 2.00 |
| 788 | 56.35 | 647.65 | 1.66 | 0.92 | 1.00 | 205.00 | 1.00 | 205.00 | 4.000 | No | No | 2.00 |
| 789 | 56.40 | 667.86 | 1.64 | 0.90 | 1.00 | 211.31 | 1.00 | 211.31 | 4.000 | No | No | 2.00 |
| 790 | 56.41 | 669.34 | 1.64 | 0.90 | 1.00 | 211.76 | 1.00 | 211.76 | 4.000 | No | No | 2.00 |
| 791 | 56.44 | 681.53 | 1.63 | 0.88 | 1.00 | 215.53 | 1.00 | 215.53 | 4.000 | No | No | 2.00 |
| 792 | 56.49 | 695.19 | 1.62 | 0.87 | 1.00 | 219.75 | 1.00 | 219.75 | 4.000 | No | No | 2.00 |
| 793 | 56.54 | 717.49 | 1.61 | 0.87 | 1.00 | 226.71 | 1.00 | 226.71 | 4.000 | No | No | 2.00 |
| 794 | 56.58 | 737.23 | 1.61 | 0.89 | 1.00 | 232.85 | 1.00 | 232.85 | 4.000 | No | No | 2.00 |
| 795 | 56.59 | 750.18 | 1.61 | 0.91 | 1.00 | 236.93 | 1.00 | 236.93 | 4.000 | No | No | 2.00 |
| 796 | 56.64 | 757.34 | 1.60 | 0.90 | 1.00 | 239.07 | 1.00 | 239.07 | 4.000 | No | No | 2.00 |
| 797 | 56.69 | 764.80 | 1.60 | 0.90 | 1.00 | 241.29 | 1.00 | 241.29 | 4.000 | No | No | 2.00 |
| 798 | 56.73 | 778.16 | 1.59 | 0.88 | 1.00 | 245.40 | 1.00 | 245.40 | 4.000 | No | No | 2.00 |
| 799 | 56.78 | 778.56 | 1.58 | 0.86 | 1.00 | 245.38 | 1.00 | 245.38 | 4.000 | No | No | 2.00 |
| 800 | 56.83 | 759.53 | 1.58 | 0.83 | 1.00 | 239.22 | 1.00 | 239.22 | 4.000 | No | No | 2.00 |
| 801 | 56.88 | 731.80 | 1.58 | 0.82 | 1.00 | 230.32 | 1.00 | 230.32 | 4.000 | No | No | 2.00 |
| 802 | 56.89 | 708.89 | 1.60 | 0.82 | 1.00 | 223.03 | 1.00 | 223.03 | 4.000 | No | No | 2.00 |
| 803 | 56.95 | 692.53 | 1.59 | 0.80 | 1.00 | 217.71 | 1.00 | 217.71 | 4.000 | No | No | 2.00 |
| 804 | 57.01 | 668.00 | 1.59 | 0.77 | 1.00 | 209.81 | 1.00 | 209.81 | 4.000 | No | No | 2.00 |
| 805 | 57.07 | 645.94 | 1.58 | 0.71 | 1.00 | 202.70 | 1.00 | 202.70 | 4.000 | No | No | 2.00 |
| 806 | 57.11 | 619.45 | 1.52 | 0.54 | 1.00 | 194.25 | 1.00 | 194.25 | 0.762 | No | No | 2.00 |
| 807 | 57.17 | 598.63 | 1.46 | 0.41 | 1.00 | 187.56 | 1.00 | 187.56 | 0.694 | No | No | 2.00 |
| 808 | 57.26 | 574.07 | 1.37 | 0.26 | 1.00 | 179.66 | 1.00 | 179.66 | 0.619 | No | No | 2.00 |
| 809 | 57.31 | 547.05 | 1.43 | 0.31 | 1.00 | 171.06 | 1.00 | 171.06 | 0.546 | No | No | 2.00 |
| 810 | 57.37 | 520.16 | 1.45 | 0.32 | 1.00 | 162.50 | 1.00 | 162.50 | 0.479 | No | No | 2.00 |
| 811 | 57.45 | 490.27 | 1.51 | 0.38 | 1.00 | 152.96 | 1.00 | 152.96 | 0.413 | No | No | 2.00 |
| 812 | 57.51 | 451.30 | 1.55 | 0.39 | 1.00 | 140.63 | 1.00 | 140.63 | 0.339 | No | No | 1.75 |
| 813 | 57.53 | 421.54 | 1.59 | 0.41 | 1.00 | 131.27 | 1.00 | 131.27 | 0.290 | No | No | 1.50 |
| 814 | 57.59 | 401.40 | 1.62 | 0.43 | 1.00 | 124.87 | 1.00 | 124.87 | 0.261 | No | No | 1.35 |
| 815 | 57.63 | 398.96 | 1.62 | 0.43 | 1.00 | 124.05 | 1.00 | 124.05 | 0.258 | No | No | 1.33 |
| 816 | 57.68 | 391.51 | 1.63 | 0.44 | 1.00 | 121.66 | 1.00 | 121.66 | 0.247 | No | No | 1.28 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 817 | 57.73 | 386.48 | 1.64 | 0.44 | 1.00 | 120.01 | 1.00 | 120.01 | 0.241 | No | No | 1.24 |
| 818 | 57.78 | 379.02 | 1.65 | 0.44 | 1.00 | 117.62 | 1.00 | 117.62 | 0.231 | No | No | 1.19 |
| 819 | 57.86 | 359.96 | 1.66 | 0.43 | 1.00 | 111.55 | 1.00 | 111.55 | 0.209 | No | No | 1.08 |
| 820 | 57.92 | 326.32 | 1.71 | 0.47 | 1.00 | 100.97 | 1.00 | 100.97 | 4.000 | Yes | No | 2.00 |
| 821 | 57.98 | 290.83 | 1.76 | 0.47 | 1.00 | 89.82 | 1.00 | 89.82 | 4.000 | Yes | No | 2.00 |
| 822 | 58.06 | 263.33 | 1.82 | 0.53 | 1.00 | 81.16 | 1.18 | 95.51 | 4.000 | Yes | No | 2.00 |
| 823 | 58.12 | 242.92 | 1.90 | 0.64 | 1.00 | 74.75 | 1.24 | 92.39 | 4.000 | Yes | No | 2.00 |
| 824 | 58.21 | 222.41 | 1.99 | 0.82 | 1.00 | 68.28 | 1.30 | 88.73 | 4.000 | Yes | No | 2.00 |
| 825 | 58.26 | 204.43 | 2.06 | 0.97 | 1.00 | 62.64 | 1.37 | 85.71 | 4.000 | Yes | No | 2.00 |
| 826 | 58.35 | 180.37 | 2.14 | 1.08 | 1.00 | 55.10 | 1.48 | 81.38 | 4.000 | Yes | No | 2.00 |
| 827 | 58.41 | 154.93 | 2.19 | 1.08 | 1.00 | 47.15 | 1.59 | 74.91 | 4.000 | Yes | No | 2.00 |
| 828 | 58.50 | 122.84 | 2.29 | 1.16 | 1.00 | 37.13 | 1.90 | 70.73 | 4.000 | Yes | No | 2.00 |
| 829 | 58.56 | 98.18 | 2.38 | 1.18 | 1.00 | 29.45 | 2.28 | 67.27 | 4.000 | Yes | No | 2.00 |
| 830 | 58.64 | 77.90 | 2.53 | 1.55 | 1.00 | 23.14 | 3.23 | 74.61 | 4.000 | Yes | No | 2.00 |
| 831 | 58.73 | 63.67 | 2.66 | 1.93 | 1.00 | 18.70 | 4.34 | 81.15 | 4.000 | Yes | Yes | 2.00 |
| 832 | 58.80 | 51.12 | 2.80 | 2.41 | 1.00 | 14.80 | 5.89 | 87.16 | 4.000 | Yes | Yes | 2.00 |
| 833 | 58.84 | 42.24 | 2.93 | 2.94 | 1.00 | 12.04 | 7.59 | 91.44 | 4.000 | Yes | Yes | 2.00 |
| 834 | 58.85 | 43.79 | 2.90 | 2.86 | 1.00 | 12.52 | 7.27 | 91.06 | 3.600 | No | Yes | 2.00 |
| 835 | 58.93 | 50.50 | 2.81 | 2.45 | 1.00 | 14.59 | 6.00 | 87.49 | 3.600 | No | Yes | 2.00 |
| 836 | 58.98 | 58.12 | 2.72 | 2.06 | 1.00 | 16.94 | 4.87 | 82.49 | 3.600 | No | Yes | 2.00 |
| 837 | 59.02 | 61.77 | 2.67 | 1.86 | 1.00 | 18.06 | 4.38 | 79.02 | 3.600 | No | Yes | 2.00 |
| 838 | 59.12 | 63.39 | 2.65 | 1.79 | 1.00 | 18.54 | 4.19 | 77.74 | 3.600 | No | Yes | 2.00 |
| 839 | 59.17 | 65.41 | 2.64 | 1.79 | 1.00 | 19.15 | 4.09 | 78.34 | 3.600 | No | Yes | 2.00 |
| 840 | 59.27 | 67.33 | 2.63 | 1.85 | 1.00 | 19.73 | 4.06 | 80.06 | 3.600 | No | Yes | 2.00 |
| 841 | 59.31 | 67.64 | 2.64 | 1.94 | 1.00 | 19.81 | 4.15 | 82.31 | 3.600 | No | Yes | 2.00 |
| 842 | 59.41 | 64.84 | 2.68 | 2.06 | 1.00 | 18.93 | 4.46 | 84.40 | 3.600 | No | Yes | 2.00 |
| 843 | 59.46 | 57.99 | 2.74 | 2.22 | 1.00 | 16.81 | 5.11 | 85.91 | 3.600 | No | Yes | 2.00 |
| 844 | 59.55 | 48.77 | 2.83 | 2.45 | 1.00 | 13.96 | 6.20 | 86.53 | 3.600 | No | Yes | 2.00 |
| 845 | 59.65 | 39.66 | 2.91 | 2.48 | 1.00 | 11.14 | 7.37 | 82.12 | 3.600 | No | Yes | 2.00 |
| 846 | 59.70 | 34.25 | 2.97 | 2.47 | 1.00 | 9.47 | 8.28 | 78.48 | 3.600 | No | Yes | 2.00 |
| 847 | 59.80 | 32.07 | 2.99 | 2.40 | 1.00 | 8.80 | 8.61 | 75.77 | 3.600 | No | Yes | 2.00 |
| 848 | 59.89 | 32.04 | 3.01 | 2.66 | 1.00 | 8.78 | 9.03 | 79.29 | 3.600 | No | Yes | 2.00 |
| 849 | 59.94 | 31.04 | 3.06 | 2.98 | 1.00 | 8.47 | 9.76 | 82.68 | 3.600 | No | Yes | 2.00 |
| 850 | 60.01 | 30.35 | 3.09 | 3.25 | 1.00 | 8.25 | 10.33 | 85.21 | 3.600 | No | Yes | 2.00 |
| 851 | 60.02 | 32.64 | 3.04 | 3.10 | 1.00 | 8.95 | 9.57 | 85.70 | 3.600 | No | Yes | 2.00 |
| 852 | 60.08 | 35.54 | 2.99 | 2.84 | 1.00 | 9.83 | 8.61 | 84.70 | 3.600 | No | Yes | 2.00 |
| 853 | 60.12 | 36.56 | 2.97 | 2.70 | 1.00 | 10.14 | 8.23 | 83.40 | 3.600 | No | Yes | 2.00 |
| 854 | 60.17 | 32.87 | 3.01 | 2.76 | 1.00 | 9.01 | 9.03 | 81.32 | 3.600 | No | Yes | 2.00 |
| 855 | 60.27 | 28.56 | 3.07 | 2.73 | 1.00 | 7.68 | 10.03 | 76.99 | 3.600 | No | Yes | 2.00 |
| 856 | 60.31 | 24.81 | 3.12 | 2.61 | 1.00 | 6.53 | 11.00 | 71.83 | 3.600 | No | Yes | 2.00 |
| 857 | 60.37 | 22.21 | 3.15 | 2.46 | 1.00 | 5.73 | 11.72 | 67.16 | 3.600 | No | Yes | 2.00 |
| 858 | 60.46 | 20.93 | 3.17 | 2.32 | 1.00 | 5.33 | 12.03 | 64.16 | 3.600 | No | Yes | 2.00 |
| 859 | 60.51 | 20.76 | 3.15 | 2.06 | 1.00 | 5.28 | 11.57 | 61.05 | 3.600 | No | Yes | 2.00 |
| 860 | 60.61 | 21.43 | 3.11 | 1.87 | 1.00 | 5.48 | 10.86 | 59.48 | 3.600 | No | Yes | 2.00 |
| 861 | 60.65 | 21.84 | 3.09 | 1.76 | 1.00 | 5.60 | 10.44 | 58.49 | 3.600 | No | Yes | 2.00 |
| 862 | 60.75 | 22.18 | 3.08 | 1.74 | 1.00 | 5.70 | 10.27 | 58.52 | 3.600 | No | Yes | 2.00 |
| 863 | 60.81 | 22.25 | 3.08 | 1.74 | 1.00 | 5.72 | 10.24 | 58.52 | 3.600 | No | Yes | 2.00 |
| 864 | 60.89 | 22.21 | 3.08 | 1.71 | 1.00 | 5.70 | 10.20 | 58.14 | 3.600 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 865 | 60.94 | 22.45 | 3.07 | 1.71 | 1.00 | 5.77 | 10.12 | 58.37 | 3.600 | No | Yes | 2.00 |
| 866 | 61.03 | 22.62 | 3.08 | 1.77 | 1.00 | 5.81 | 10.19 | 59.27 | 3.600 | No | Yes | 2.00 |
| 867 | 61.09 | 22.65 | 3.08 | 1.79 | 1.00 | 5.82 | 10.23 | 59.56 | 3.600 | No | Yes | 2.00 |
| 868 | 61.19 | 22.38 | 3.08 | 1.78 | 1.00 | 5.74 | 10.30 | 59.09 | 3.600 | No | Yes | 2.00 |
| 869 | 61.24 | 22.96 | 3.06 | 1.69 | 1.00 | 5.91 | 9.90 | 58.48 | 3.600 | No | Yes | 2.00 |
| 870 | 61.33 | 24.51 | 3.03 | 1.68 | 1.00 | 6.37 | 9.35 | 59.55 | 3.600 | No | Yes | 2.00 |
| 871 | 61.38 | 24.20 | 3.09 | 2.19 | 1.00 | 6.28 | 10.50 | 65.92 | 3.600 | No | Yes | 2.00 |
| 872 | 61.47 | 23.16 | 3.18 | 2.97 | 1.00 | 5.95 | 12.35 | 73.50 | 3.600 | No | Yes | 2.00 |
| 873 | 61.53 | 21.88 | 3.28 | 3.99 | 1.00 | 5.56 | 14.59 | 81.14 | 3.600 | No | Yes | 2.00 |
| 874 | 61.62 | 27.61 | 3.13 | 3.27 | 1.00 | 7.29 | 11.24 | 81.97 | 3.600 | No | Yes | 2.00 |
| 875 | 61.70 | 44.48 | 2.86 | 2.37 | 1.00 | 12.39 | 6.68 | 82.73 | 3.600 | No | Yes | 2.00 |
| 876 | 61.77 | 66.81 | 2.67 | 2.07 | 1.00 | 19.14 | 4.44 | 84.93 | 3.600 | No | Yes | 2.00 |
| 877 | 61.86 | 81.96 | 2.60 | 2.12 | 1.00 | 23.70 | 3.78 | 89.66 | 3.600 | No | Yes | 2.00 |
| 878 | 61.95 | 81.02 | 2.63 | 2.34 | 1.00 | 23.39 | 4.06 | 94.89 | 3.600 | No | Yes | 2.00 |
| 879 | 61.97 | 72.62 | 2.69 | 2.53 | 1.00 | 20.85 | 4.65 | 96.91 | 3.600 | No | Yes | 2.00 |
| 880 | 62.01 | 62.36 | 2.78 | 2.84 | 1.00 | 17.75 | 5.62 | 99.66 | 4.000 | No | Yes | 2.00 |
| 881 | 62.10 | 52.17 | 2.87 | 3.09 | 1.00 | 14.66 | 6.77 | 99.23 | 4.000 | Yes | Yes | 2.00 |
| 882 | 62.24 | 55.41 | 2.79 | 2.50 | 1.00 | 15.61 | 5.76 | 89.92 | 4.000 | Yes | Yes | 2.00 |
| 883 | 62.34 | 87.70 | 2.48 | 1.40 | 1.00 | 25.31 | 2.83 | 71.54 | 4.000 | Yes | No | 2.00 |
| 884 | 62.49 | 127.58 | 2.25 | 0.95 | 1.00 | 37.26 | 1.74 | 64.77 | 4.000 | Yes | No | 2.00 |
| 885 | 62.54 | 164.52 | 2.11 | 0.82 | 1.00 | 48.34 | 1.44 | 69.68 | 4.000 | Yes | No | 2.00 |
| 886 | 62.66 | 181.39 | 2.07 | 0.78 | 1.00 | 53.35 | 1.37 | 73.33 | 4.000 | Yes | No | 2.00 |
| 887 | 62.74 | 199.68 | 2.02 | 0.75 | 1.00 | 58.78 | 1.33 | 77.94 | 4.000 | Yes | No | 2.00 |
| 888 | 62.87 | 211.65 | 1.99 | 0.72 | 1.00 | 62.29 | 1.30 | 80.99 | 4.000 | No | No | 2.00 |
| 889 | 62.92 | 217.18 | 1.98 | 0.72 | 1.00 | 63.92 | 1.29 | 82.65 | 4.000 | No | No | 2.00 |
| 890 | 63.03 | 219.18 | 1.98 | 0.73 | 1.00 | 64.44 | 1.29 | 83.41 | 4.000 | No | No | 2.00 |
| 891 | 63.15 | 218.06 | 1.99 | 0.76 | 1.00 | 64.03 | 1.30 | 83.38 | 4.000 | No | No | 2.00 |
| 892 | 63.26 | 213.11 | 2.01 | 0.79 | 1.00 | 62.49 | 1.32 | 82.35 | 4.000 | No | No | 2.00 |
| 893 | 63.37 | 206.70 | 2.03 | 0.82 | 1.00 | 60.51 | 1.34 | 80.92 | 4.000 | No | No | 2.00 |
| 894 | 63.45 | 200.15 | 2.04 | 0.79 | 1.00 | 58.51 | 1.34 | 78.49 | 4.000 | No | No | 2.00 |
| 895 | 63.54 | 197.59 | 2.02 | 0.71 | 1.00 | 57.70 | 1.32 | 76.31 | 4.000 | No | No | 2.00 |
| 896 | 63.61 | 190.30 | 2.02 | 0.68 | 1.00 | 55.49 | 1.33 | 73.61 | 4.000 | Yes | No | 2.00 |
| 897 | 63.69 | 172.04 | 2.08 | 0.74 | 1.00 | 50.02 | 1.39 | 69.47 | 4.000 | Yes | No | 2.00 |
| 898 | 63.79 | 141.71 | 2.22 | 0.97 | 1.00 | 40.98 | 1.65 | 67.77 | 4.000 | Yes | No | 2.00 |
| 899 | 63.89 | 106.15 | 2.36 | 1.15 | 1.00 | 30.39 | 2.20 | 66.74 | 4.000 | Yes | No | 2.00 |
| 900 | 63.98 | 75.22 | 2.55 | 1.47 | 1.00 | 21.20 | 3.37 | 71.48 | 4.000 | Yes | No | 2.00 |
| 901 | 64.07 | 53.15 | 2.72 | 1.67 | 1.00 | 14.65 | 4.91 | 71.91 | 4.000 | Yes | Yes | 2.00 |
| 902 | 64.15 | 39.12 | 2.91 | 2.21 | 1.00 | 10.48 | 7.30 | 76.48 | 4.000 | Yes | Yes | 2.00 |
| 903 | 64.23 | 29.98 | 3.07 | 2.76 | 1.00 | 7.77 | 10.00 | 77.68 | 4.000 | No | Yes | 2.00 |
| 904 | 64.26 | 25.15 | 3.18 | 3.28 | 1.00 | 6.34 | 12.34 | 78.26 | 4.000 | No | Yes | 2.00 |
| 905 | 64.29 | 23.57 | 3.22 | 3.48 | 1.00 | 5.87 | 13.31 | 78.14 | 4.000 | No | Yes | 2.00 |
| 906 | 64.33 | 23.37 | 3.21 | 3.17 | 1.00 | 5.81 | 12.89 | 74.86 | 4.000 | No | Yes | 2.00 |
| 907 | 64.43 | 22.99 | 3.19 | 2.81 | 1.00 | 5.69 | 12.43 | 70.78 | 4.000 | No | Yes | 2.00 |
| 908 | 64.47 | 22.29 | 3.17 | 2.45 | 1.00 | 5.48 | 12.05 | 66.07 | 4.000 | No | Yes | 2.00 |
| 909 | 64.53 | 21.82 | 3.17 | 2.32 | 1.00 | 5.34 | 12.01 | 64.15 | 4.000 | No | Yes | 2.00 |
| 910 | 64.62 | 20.60 | 3.20 | 2.39 | 1.00 | 4.98 | 12.74 | 63.40 | 4.000 | No | Yes | 2.00 |
| 911 | 64.72 | 19.12 | 3.25 | 2.57 | 1.00 | 4.53 | 13.95 | 63.23 | 4.000 | No | Yes | 2.00 |
| 912 | 64.78 | 18.00 | 3.30 | 2.81 | 1.00 | 4.20 | 15.17 | 63.74 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 913 | 64.86 | 18.21 | 3.30 | 2.92 | 1.00 | 4.26 | 15.26 | 65.01 | 4.000 | No | Yes | 2.00 |
| 914 | 64.96 | 18.78 | 3.31 | 3.20 | 1.00 | 4.42 | 15.44 | 68.31 | 4.000 | No | Yes | 2.00 |
| 915 | 65.06 | 19.22 | 3.32 | 3.52 | 1.00 | 4.55 | 15.74 | 71.61 | 4.000 | No | Yes | 2.00 |
| 916 | 65.11 | 19.22 | 3.34 | 3.90 | 1.00 | 4.55 | 16.41 | 74.58 | 4.000 | No | Yes | 2.00 |
| 917 | 65.21 | 18.85 | 3.37 | 4.16 | 1.00 | 4.43 | 17.13 | 75.90 | 4.000 | No | Yes | 2.00 |
| 918 | 65.31 | 18.45 | 3.39 | 4.32 | 1.00 | 4.31 | 17.70 | 76.26 | 4.000 | No | Yes | 2.00 |
| 919 | 65.40 | 18.28 | 3.37 | 3.90 | 1.00 | 4.25 | 17.10 | 72.77 | 4.000 | No | Yes | 2.00 |
| 920 | 65.50 | 18.58 | 3.32 | 3.22 | 1.00 | 4.34 | 15.67 | 67.97 | 4.000 | No | Yes | 2.00 |
| 921 | 65.58 | 19.02 | 3.26 | 2.59 | 1.00 | 4.46 | 14.15 | 63.13 | 4.000 | No | Yes | 2.00 |
| 922 | 65.68 | 19.05 | 3.24 | 2.38 | 1.00 | 4.47 | 13.69 | 61.17 | 4.000 | No | Yes | 2.00 |
| 923 | 65.78 | 17.67 | 3.29 | 2.52 | 1.00 | 4.06 | 14.89 | 60.45 | 4.000 | No | Yes | 2.00 |
| 924 | 65.84 | 16.40 | 3.34 | 2.66 | 1.00 | 3.69 | 16.19 | 59.69 | 4.000 | No | Yes | 2.00 |
| 925 | 65.86 | 15.56 | 3.38 | 2.83 | 1.00 | 3.44 | 17.33 | 59.62 | 4.000 | No | Yes | 2.00 |
| 926 | 65.87 | 16.51 | 3.33 | 2.60 | 1.00 | 3.72 | 15.97 | 59.36 | 4.000 | No | Yes | 2.00 |
| 927 | 65.98 | 17.26 | 3.29 | 2.44 | 1.00 | 3.93 | 15.03 | 59.09 | 4.000 | No | Yes | 2.00 |
| 928 | 66.10 | 17.84 | 3.28 | 2.46 | 1.00 | 4.09 | 14.69 | 60.13 | 4.000 | No | Yes | 2.00 |
| 929 | 66.21 | 18.21 | 3.29 | 2.65 | 1.00 | 4.20 | 14.85 | 62.32 | 4.000 | No | Yes | 2.00 |
| 930 | 66.34 | 18.48 | 3.28 | 2.68 | 1.00 | 4.27 | 14.76 | 63.01 | 4.000 | No | Yes | 2.00 |
| 931 | 66.48 | 19.00 | 3.27 | 2.66 | 1.00 | 4.42 | 14.39 | 63.55 | 4.000 | No | Yes | 2.00 |
| 932 | 66.62 | 18.46 | 3.28 | 2.63 | 1.00 | 4.25 | 14.69 | 62.45 | 4.000 | No | Yes | 2.00 |
| 933 | 66.68 | 18.67 | 3.29 | 2.78 | 1.00 | 4.31 | 14.87 | 64.07 | 4.000 | No | Yes | 2.00 |
| 934 | 66.87 | 18.92 | 3.31 | 3.19 | 1.00 | 4.37 | 15.53 | 67.94 | 4.000 | No | Yes | 2.00 |
| 935 | 66.96 | 19.16 | 3.35 | 3.89 | 1.00 | 4.44 | 16.65 | 73.89 | 4.000 | No | Yes | 2.00 |
| 936 | 67.11 | 18.25 | 3.42 | 4.74 | 1.00 | 4.17 | 18.76 | 78.15 | 4.000 | No | Yes | 2.00 |
| 937 | 67.21 | 16.83 | 3.47 | 4.99 | 1.00 | 3.75 | 20.42 | 76.60 | 4.000 | No | Yes | 2.00 |
| 938 | 67.35 | 16.22 | 3.48 | 4.67 | 1.00 | 3.57 | 20.50 | 73.18 | 4.000 | No | Yes | 2.00 |
| 939 | 67.45 | 16.16 | 3.52 | 5.49 | 1.00 | 3.55 | 21.95 | 77.86 | 4.000 | No | Yes | 2.00 |
| 940 | 67.59 | 27.42 | 3.21 | 4.13 | 1.00 | 6.79 | 13.06 | 88.71 | 4.000 | No | Yes | 2.00 |
| 941 | 67.68 | 77.39 | 2.62 | 1.95 | 1.00 | 21.19 | 3.95 | 83.67 | 4.000 | Yes | Yes | 2.00 |
| 942 | 67.83 | 159.77 | 2.22 | 1.13 | 1.00 | 44.89 | 1.66 | 74.68 | 4.000 | Yes | No | 2.00 |
| 943 | 67.92 | 241.25 | 1.99 | 0.82 | 1.00 | 68.29 | 1.30 | 88.64 | 4.000 | Yes | No | 2.00 |
| 944 | 68.02 | 283.19 | 1.90 | 0.72 | 1.00 | 80.28 | 1.24 | 99.35 | 4.000 | Yes | No | 2.00 |
| 945 | 68.07 | 299.01 | 1.88 | 0.72 | 1.00 | 84.78 | 1.22 | 103.71 | 4.000 | Yes | No | 2.00 |
| 946 | 68.16 | 305.70 | 1.87 | 0.71 | 1.00 | 86.62 | 1.22 | 105.26 | 4.000 | No | No | 2.00 |
| 947 | 68.26 | 310.93 | 1.86 | 0.70 | 1.00 | 88.04 | 1.21 | 106.54 | 4.000 | No | No | 2.00 |
| 948 | 68.35 | 307.75 | 1.88 | 0.74 | 1.00 | 87.05 | 1.22 | 106.44 | 4.000 | No | No | 2.00 |
| 949 | 68.45 | 299.96 | 1.91 | 0.81 | 1.00 | 84.74 | 1.24 | 105.37 | 4.000 | No | No | 2.00 |
| 950 | 68.55 | 291.49 | 1.94 | 0.86 | 1.00 | 82.23 | 1.26 | 103.72 | 4.000 | No | No | 2.00 |
| 951 | 68.65 | 271.72 | 1.98 | 0.91 | 1.00 | 76.50 | 1.29 | 98.57 | 4.000 | No | No | 2.00 |
| 952 | 68.78 | 253.59 | 2.02 | 0.98 | 1.00 | 71.23 | 1.32 | 94.35 | 4.000 | No | No | 2.00 |
| 953 | 68.78 | 238.18 | 2.05 | 1.03 | 1.00 | 66.83 | 1.36 | 90.91 | 4.000 | No | No | 2.00 |
| 954 | 68.79 | 234.24 | 2.06 | 1.02 | 1.00 | 65.70 | 1.37 | 89.70 | 4.000 | No | No | 2.00 |
| 955 | 68.83 | 237.70 | 2.03 | 0.94 | 1.00 | 66.66 | 1.34 | 89.08 | 4.000 | No | No | 2.00 |
| 956 | 68.93 | 243.69 | 1.99 | 0.81 | 1.00 | 68.30 | 1.30 | 88.59 | 4.000 | No | No | 2.00 |
| 957 | 68.98 | 253.54 | 1.93 | 0.67 | 1.00 | 71.08 | 1.25 | 89.18 | 4.000 | No | No | 2.00 |
| 958 | 69.04 | 257.79 | 1.89 | 0.60 | 1.00 | 72.25 | 1.23 | 89.05 | 4.000 | No | No | 2.00 |
| 959 | 69.12 | 259.28 | 1.89 | 0.58 | 1.00 | 72.61 | 1.23 | 89.10 | 4.000 | No | No | 2.00 |
| 960 | 69.22 | 255.36 | 1.90 | 0.59 | 1.00 | 71.43 | 1.24 | 88.23 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 961 | 69.28 | 247.73 | 1.91 | 0.61 | 1.00 | 69.22 | 1.25 | 86.25 | 4.000 | No | No | 2.00 |
| 962 | 69.36 | 237.41 | 1.93 | 0.61 | 1.00 | 66.24 | 1.26 | 83.22 | 4.000 | No | No | 2.00 |
| 963 | 69.45 | 223.58 | 1.95 | 0.61 | 1.00 | 62.26 | 1.27 | 79.21 | 4.000 | No | No | 2.00 |
| 964 | 69.60 | 210.12 | 1.98 | 0.61 | 1.00 | 58.37 | 1.29 | 75.34 | 4.000 | No | No | 2.00 |
| 965 | 69.70 | 198.18 | 2.01 | 0.62 | 1.00 | 54.94 | 1.31 | 72.05 | 4.000 | No | No | 2.00 |
| 966 | 69.80 | 193.42 | 2.01 | 0.62 | 1.00 | 53.54 | 1.32 | 70.68 | 4.000 | No | No | 2.00 |
| 967 | 69.89 | 192.07 | 2.02 | 0.62 | 1.00 | 53.12 | 1.32 | 70.30 | 4.000 | No | No | 2.00 |
| 968 | 69.98 | 190.15 | 2.02 | 0.63 | 1.00 | 52.53 | 1.33 | 69.82 | 4.000 | No | No | 2.00 |
| 969 | 70.08 | 181.88 | 2.04 | 0.63 | 1.00 | 50.15 | 1.35 | 67.53 | 4.000 | Yes | No | 2.00 |
| 970 | 70.18 | 159.82 | 2.12 | 0.71 | 1.00 | 43.89 | 1.45 | 63.51 | 4.000 | Yes | No | 2.00 |
| 971 | 70.32 | 124.32 | 2.27 | 0.89 | 1.00 | 33.85 | 1.81 | 61.16 | 4.000 | Yes | No | 2.00 |
| 972 | 70.42 | 84.31 | 2.50 | 1.27 | 1.00 | 22.56 | 2.96 | 66.77 | 4.000 | Yes | No | 2.00 |
| 973 | 70.54 | 51.82 | 2.77 | 1.84 | 1.00 | 13.41 | 5.53 | 74.19 | 4.000 | Yes | Yes | 2.00 |
| 974 | 70.66 | 31.85 | 3.05 | 2.58 | 1.00 | 7.79 | 9.69 | 75.54 | 4.000 | No | Yes | 2.00 |
| 975 | 70.75 | 23.52 | 3.23 | 3.11 | 1.00 | 5.45 | 13.34 | 72.70 | 4.000 | No | Yes | 2.00 |
| 976 | 70.80 | 21.80 | 3.23 | 2.72 | 1.00 | 4.97 | 13.43 | 66.71 | 4.000 | No | Yes | 2.00 |
| 977 | 70.89 | 22.64 | 3.14 | 1.98 | 1.00 | 5.20 | 11.52 | 59.87 | 4.000 | No | Yes | 2.00 |
| 978 | 70.99 | 22.34 | 3.09 | 1.45 | 1.00 | 5.11 | 10.38 | 53.00 | 4.000 | No | Yes | 2.00 |
| 979 | 71.08 | 21.63 | 3.07 | 1.23 | 1.00 | 4.90 | 10.09 | 49.46 | 4.000 | No | Yes | 2.00 |
| 980 | 71.17 | 21.43 | 3.06 | 1.12 | 1.00 | 4.84 | 9.87 | 47.79 | 4.000 | No | Yes | 2.00 |
| 981 | 71.23 | 20.92 | 3.07 | 1.10 | 1.00 | 4.70 | 10.01 | 47.05 | 4.000 | No | Yes | 2.00 |
| 982 | 71.33 | 21.09 | 3.05 | 1.03 | 1.00 | 4.74 | 9.74 | 46.20 | 4.000 | No | Yes | 2.00 |
| 983 | 71.42 | 21.73 | 3.02 | 0.90 | 1.00 | 4.92 | 9.08 | 44.64 | 4.000 | No | Yes | 2.00 |
| 984 | 71.52 | 22.81 | 2.97 | 0.78 | 1.00 | 5.22 | 8.26 | 43.06 | 4.000 | No | Yes | 2.00 |
| 985 | 71.58 | 23.21 | 2.97 | 0.82 | 1.00 | 5.33 | 8.27 | 44.01 | 4.000 | No | Yes | 2.00 |
| 986 | 71.67 | 22.88 | 3.02 | 1.04 | 1.00 | 5.23 | 9.07 | 47.43 | 4.000 | No | Yes | 2.00 |
| 987 | 71.81 | 22.47 | 3.06 | 1.28 | 1.00 | 5.11 | 9.94 | 50.76 | 4.000 | No | Yes | 2.00 |
| 988 | 71.82 | 22.24 | 3.09 | 1.43 | 1.00 | 5.04 | 10.42 | 52.55 | 4.000 | No | Yes | 2.00 |
| 989 | 71.86 | 21.97 | 3.10 | 1.47 | 1.00 | 4.96 | 10.64 | 52.82 | 4.000 | No | Yes | 2.00 |
| 990 | 71.91 | 21.83 | 3.11 | 1.49 | 1.00 | 4.92 | 10.75 | 52.95 | 4.000 | No | Yes | 2.00 |
| 991 | 71.97 | 21.60 | 3.12 | 1.53 | 1.00 | 4.86 | 10.97 | 53.27 | 4.000 | No | Yes | 2.00 |
| 992 | 72.05 | 21.36 | 3.13 | 1.58 | 1.00 | 4.79 | 11.22 | 53.72 | 4.000 | No | Yes | 2.00 |
| 993 | 72.10 | 21.13 | 3.14 | 1.65 | 1.00 | 4.72 | 11.52 | 54.35 | 4.000 | No | Yes | 2.00 |
| 994 | 72.20 | 20.99 | 3.15 | 1.70 | 1.00 | 4.68 | 11.71 | 54.79 | 4.000 | No | Yes | 2.00 |
| 995 | 72.25 | 20.99 | 3.16 | 1.76 | 1.00 | 4.67 | 11.87 | 55.49 | 4.000 | No | Yes | 2.00 |
| 996 | 72.34 | 21.09 | 3.17 | 1.88 | 1.00 | 4.70 | 12.12 | 56.94 | 4.000 | No | Yes | 2.00 |
| 997 | 72.44 | 21.09 | 3.19 | 2.06 | 1.00 | 4.69 | 12.53 | 58.80 | 4.000 | No | Yes | 2.00 |
| 998 | 72.53 | 20.89 | 3.21 | 2.23 | 1.00 | 4.63 | 13.04 | 60.40 | 4.000 | No | Yes | 2.00 |
| 999 | 72.63 | 20.79 | 3.22 | 2.32 | 1.00 | 4.60 | 13.29 | 61.13 | 4.000 | No | Yes | 2.00 |
| 1000 | 72.69 | 20.48 | 3.23 | 2.36 | 1.00 | 4.51 | 13.55 | 61.14 | 4.000 | No | Yes | 2.00 |
| 1001 | 72.82 | 20.69 | 3.23 | 2.31 | 1.00 | 4.56 | 13.34 | 60.87 | 4.000 | No | Yes | 2.00 |
| 1002 | 72.92 | 21.13 | 3.20 | 2.18 | 1.00 | 4.68 | 12.83 | 60.05 | 4.000 | No | Yes | 2.00 |
| 1003 | 73.06 | 22.11 | 3.17 | 2.01 | 1.00 | 4.95 | 11.98 | 59.27 | 4.000 | No | Yes | 2.00 |
| 1004 | 73.16 | 22.34 | 3.16 | 2.02 | 1.00 | 5.01 | 11.90 | 59.57 | 4.000 | No | Yes | 2.00 |
| 1005 | 73.30 | 20.86 | 3.22 | 2.28 | 1.00 | 4.59 | 13.21 | 60.65 | 4.000 | No | Yes | 2.00 |
| 1006 | 73.35 | 19.88 | 3.26 | 2.50 | 1.00 | 4.32 | 14.25 | 61.53 | 4.000 | No | Yes | 2.00 |
| 1007 | 73.38 | 19.20 | 3.29 | 2.56 | 1.00 | 4.13 | 14.83 | 61.23 | 4.000 | No | Yes | 2.00 |
| 1008 | 73.47 | 20.02 | 3.25 | 2.39 | 1.00 | 4.35 | 13.95 | 60.67 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1009 | 73.53 | 20.08 | 3.24 | 2.33 | 1.00 | 4.37 | 13.79 | 60.20 | 4.000 | No | Yes | 2.00 |
| 1010 | 73.62 | 20.18 | 3.24 | 2.30 | 1.00 | 4.39 | 13.66 | 59.95 | 4.000 | No | Yes | 2.00 |
| 1011 | 73.71 | 19.95 | 3.25 | 2.36 | 1.00 | 4.32 | 13.95 | 60.28 | 4.000 | No | Yes | 2.00 |
| 1012 | 73.77 | 19.61 | 3.28 | 2.54 | 1.00 | 4.23 | 14.55 | 61.46 | 4.000 | No | Yes | 2.00 |
| 1013 | 73.86 | 19.34 | 3.30 | 2.76 | 1.00 | 4.15 | 15.21 | 63.08 | 4.000 | No | Yes | 2.00 |
| 1014 | 73.96 | 19.38 | 3.31 | 2.94 | 1.00 | 4.15 | 15.56 | 64.61 | 4.000 | No | Yes | 2.00 |
| 1015 | 74.06 | 19.58 | 3.32 | 3.02 | 1.00 | 4.20 | 15.60 | 65.59 | 4.000 | No | Yes | 2.00 |
| 1016 | 74.13 | 20.02 | 3.31 | 3.02 | 1.00 | 4.32 | 15.32 | 66.22 | 4.000 | No | Yes | 2.00 |
| 1017 | 74.24 | 20.36 | 3.30 | 3.02 | 1.00 | 4.41 | 15.12 | 66.66 | 4.000 | No | Yes | 2.00 |
| 1018 | 74.34 | 20.56 | 3.30 | 3.06 | 1.00 | 4.46 | 15.08 | 67.26 | 4.000 | No | Yes | 2.00 |
| 1019 | 74.44 | 20.42 | 3.31 | 3.15 | 1.00 | 4.42 | 15.35 | 67.81 | 4.000 | No | Yes | 2.00 |
| 1020 | 74.58 | 20.37 | 3.30 | 3.10 | 1.00 | 4.40 | 15.30 | 67.28 | 4.000 | No | Yes | 2.00 |
| 1021 | 74.68 | 20.30 | 3.27 | 2.60 | 1.00 | 4.38 | 14.35 | 62.80 | 4.000 | No | Yes | 2.00 |
| 1022 | 74.80 | 20.47 | 3.22 | 2.16 | 1.00 | 4.42 | 13.30 | 58.74 | 4.000 | No | Yes | 2.00 |
| 1023 | 74.92 | 20.26 | 3.21 | 1.96 | 1.00 | 4.35 | 12.97 | 56.43 | 4.000 | No | Yes | 2.00 |
| 1024 | 75.07 | 20.06 | 3.24 | 2.18 | 1.00 | 4.29 | 13.60 | 58.35 | 4.000 | No | Yes | 2.00 |
| 1025 | 75.08 | 19.75 | 3.26 | 2.32 | 1.00 | 4.21 | 14.10 | 59.34 | 4.000 | No | Yes | 2.00 |
| 1026 | 75.11 | 19.62 | 3.26 | 2.36 | 1.00 | 4.17 | 14.28 | 59.53 | 4.000 | No | Yes | 2.00 |
| 1027 | 75.16 | 19.55 | 3.27 | 2.45 | 1.00 | 4.15 | 14.53 | 60.28 | 4.000 | No | Yes | 2.00 |
| 1028 | 75.25 | 19.31 | 3.30 | 2.65 | 1.00 | 4.08 | 15.14 | 61.74 | 4.000 | No | Yes | 2.00 |
| 1029 | 75.32 | 19.14 | 3.32 | 2.86 | 1.00 | 4.03 | 15.69 | 63.23 | 4.000 | No | Yes | 2.00 |
| 1030 | 75.40 | 18.98 | 3.33 | 2.95 | 1.00 | 3.98 | 16.00 | 63.73 | 4.000 | No | Yes | 2.00 |
| 1031 | 75.50 | 18.81 | 3.33 | 2.87 | 1.00 | 3.93 | 15.96 | 62.77 | 4.000 | No | Yes | 2.00 |
| 1032 | 75.59 | 18.30 | 3.33 | 2.72 | 1.00 | 3.79 | 16.02 | 60.75 | 4.000 | No | Yes | 2.00 |
| 1033 | 75.69 | 17.56 | 3.34 | 2.60 | 1.00 | 3.59 | 16.34 | 58.60 | 4.000 | No | Yes | 2.00 |
| 1034 | 75.78 | 16.85 | 3.35 | 2.48 | 1.00 | 3.39 | 16.66 | 56.46 | 4.000 | No | Yes | 2.00 |
| 1035 | 75.88 | 16.41 | 3.36 | 2.34 | 1.00 | 3.27 | 16.73 | 54.66 | 4.000 | No | Yes | 2.00 |
| 1036 | 75.96 | 16.11 | 3.35 | 2.19 | 1.00 | 3.18 | 16.62 | 52.90 | 4.000 | No | Yes | 2.00 |
| 1037 | 76.05 | 16.04 | 3.34 | 2.06 | 1.00 | 3.16 | 16.34 | 51.65 | 4.000 | No | Yes | 2.00 |
| 1038 | 76.14 | 15.97 | 3.34 | 1.99 | 1.00 | 3.14 | 16.25 | 51.00 | 4.000 | No | Yes | 2.00 |
| 1039 | 76.26 | 16.07 | 3.34 | 1.99 | 1.00 | 3.16 | 16.16 | 51.09 | 4.000 | No | Yes | 2.00 |
| 1040 | 76.36 | 16.07 | 3.34 | 2.03 | 1.00 | 3.16 | 16.26 | 51.38 | 4.000 | No | Yes | 2.00 |
| 1041 | 76.41 | 16.07 | 3.34 | 2.04 | 1.00 | 3.16 | 16.31 | 51.50 | 4.000 | No | Yes | 2.00 |
| 1042 | 76.51 | 15.84 | 3.35 | 2.05 | 1.00 | 3.09 | 16.56 | 51.17 | 4.000 | No | Yes | 2.00 |
| 1043 | 76.65 | 15.50 | 3.37 | 2.09 | 1.00 | 2.99 | 17.04 | 51.04 | 4.000 | No | Yes | 2.00 |
| 1044 | 76.72 | 15.26 | 3.38 | 2.15 | 1.00 | 2.93 | 17.45 | 51.12 | 4.000 | No | Yes | 2.00 |
| 1045 | 76.79 | 15.16 | 3.39 | 2.21 | 1.00 | 2.90 | 17.72 | 51.39 | 4.000 | No | Yes | 2.00 |
| 1046 | 76.89 | 15.23 | 3.41 | 2.47 | 1.00 | 2.91 | 18.36 | 53.53 | 4.000 | No | Yes | 2.00 |
| 1047 | 76.98 | 15.47 | 3.48 | 3.62 | 1.00 | 2.98 | 20.80 | 61.89 | 4.000 | No | Yes | 2.00 |
| 1048 | 77.08 | 18.00 | 3.43 | 4.02 | 1.00 | 3.65 | 19.05 | 69.60 | 4.000 | No | Yes | 2.00 |
| 1049 | 77.18 | 22.18 | 3.34 | 4.06 | 1.00 | 4.77 | 16.19 | 77.29 | 4.000 | No | Yes | 2.00 |
| 1050 | 77.28 | 26.73 | 3.26 | 4.08 | 1.00 | 5.99 | 14.06 | 84.26 | 4.000 | No | Yes | 2.00 |
| 1051 | 77.37 | 27.88 | 3.29 | 4.98 | 1.00 | 6.30 | 14.87 | 93.62 | 4.000 | No | Yes | 2.00 |
| 1052 | 77.42 | 28.76 | 3.31 | 5.68 | 1.00 | 6.53 | 15.41 | 100.64 | 4.000 | No | Yes | 2.00 |
| 1053 | 77.42 | 30.22 | 3.30 | 5.86 | 1.00 | 6.92 | 15.09 | 104.44 | 4.000 | No | Yes | 2.00 |
| 1054 | 77.44 | 34.00 | 3.23 | 5.50 | 1.00 | 7.94 | 13.49 | 107.05 | 4.000 | No | Yes | 2.00 |
| 1055 | 77.48 | 37.40 | 3.19 | 5.36 | 1.00 | 8.85 | 12.47 | 110.31 | 4.000 | No | Yes | 2.00 |
| 1056 | 77.52 | 40.61 | 3.15 | 5.24 | 1.00 | 9.70 | 11.65 | 113.00 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1057 | 77.54 | 42.94 | 3.12 | 5.12 | 1.00 | 10.33 | 11.08 | 114.44 | 4.000 | No | Yes | 2.00 |
| 1058 | 77.57 | 43.37 | 3.12 | 5.18 | 1.00 | 10.44 | 11.07 | 115.54 | 4.000 | No | Yes | 2.00 |
| 1059 | 77.62 | 42.26 | 3.14 | 5.33 | 1.00 | 10.14 | 11.44 | 115.93 | 4.000 | No | Yes | 2.00 |
| 1060 | 77.65 | 40.10 | 3.17 | 5.56 | 1.00 | 9.55 | 12.10 | 115.64 | 4.000 | No | Yes | 2.00 |
| 1061 | 77.67 | 38.72 | 3.18 | 5.50 | 1.00 | 9.18 | 12.34 | 113.32 | 4.000 | No | Yes | 2.00 |
| 1062 | 77.71 | 37.91 | 3.19 | 5.40 | 1.00 | 8.96 | 12.41 | 111.24 | 4.000 | No | Yes | 2.00 |
| 1063 | 77.71 | 37.03 | 3.18 | 5.16 | 1.00 | 8.73 | 12.35 | 107.78 | 4.000 | No | Yes | 2.00 |
| 1064 | 77.76 | 34.77 | 3.20 | 5.10 | 1.00 | 8.12 | 12.85 | 104.25 | 4.000 | No | Yes | 2.00 |
| 1065 | 77.81 | 31.76 | 3.23 | 4.96 | 1.00 | 7.31 | 13.53 | 98.88 | 4.000 | No | Yes | 2.00 |
| 1066 | 77.90 | 29.03 | 3.27 | 4.92 | 1.00 | 6.57 | 14.40 | 94.60 | 4.000 | No | Yes | 2.00 |
| 1067 | 77.95 | 27.32 | 3.30 | 4.97 | 1.00 | 6.11 | 15.14 | 92.44 | 4.000 | No | Yes | 2.00 |
| 1068 | 78.01 | 26.34 | 3.32 | 5.03 | 1.00 | 5.84 | 15.63 | 91.29 | 4.000 | No | Yes | 2.00 |
| 1069 | 78.10 | 27.59 | 3.27 | 4.56 | 1.00 | 6.17 | 14.49 | 89.37 | 4.000 | No | Yes | 2.00 |
| 1070 | 78.16 | 36.29 | 3.07 | 3.14 | 1.00 | 8.49 | 9.98 | 84.71 | 4.000 | No | Yes | 2.00 |
| 1071 | 78.24 | 48.94 | 2.86 | 2.21 | 1.00 | 11.86 | 6.66 | 79.05 | 4.000 | Yes | Yes | 2.00 |
| 1072 | 78.29 | 64.83 | 2.68 | 1.67 | 1.00 | 16.10 | 4.54 | 73.14 | 4.000 | Yes | Yes | 2.00 |
| 1073 | 78.39 | 77.42 | 2.58 | 1.42 | 1.00 | 19.44 | 3.56 | 69.27 | 4.000 | Yes | No | 2.00 |
| 1074 | 78.47 | 87.30 | 2.52 | 1.35 | 1.00 | 22.06 | 3.11 | 68.51 | 4.000 | Yes | No | 2.00 |
| 1075 | 78.53 | 92.74 | 2.51 | 1.44 | 1.00 | 23.49 | 3.05 | 71.72 | 4.000 | Yes | No | 2.00 |
| 1076 | 78.62 | 94.25 | 2.54 | 1.65 | 1.00 | 23.88 | 3.25 | 77.71 | 4.000 | Yes | No | 2.00 |
| 1077 | 78.68 | 91.22 | 2.59 | 1.91 | 1.00 | 23.06 | 3.64 | 84.02 | 4.000 | Yes | No | 2.00 |
| 1078 | 78.69 | 92.97 | 2.61 | 2.12 | 1.00 | 23.52 | 3.81 | 89.57 | 4.000 | Yes | Yes | 2.00 |
| 1079 | 78.78 | 93.95 | 2.63 | 2.33 | 1.00 | 23.76 | 4.00 | 95.10 | 4.000 | No | Yes | 2.00 |
| 1080 | 78.81 | 94.86 | 2.65 | 2.61 | 1.00 | 24.00 | 4.25 | 102.04 | 4.000 | No | Yes | 2.00 |
| 1081 | 78.92 | 85.28 | 2.73 | 2.97 | 1.00 | 21.43 | 5.01 | 107.35 | 4.000 | No | Yes | 2.00 |
| 1082 | 79.03 | 72.83 | 2.81 | 3.21 | 1.00 | 18.11 | 5.93 | 107.43 | 4.000 | No | Yes | 2.00 |
| 1083 | 79.16 | 68.41 | 2.80 | 2.88 | 1.00 | 16.91 | 5.87 | 99.26 | 4.000 | Yes | Yes | 2.00 |
| 1084 | 79.26 | 78.39 | 2.68 | 2.21 | 1.00 | 19.54 | 4.53 | 88.45 | 4.000 | Yes | Yes | 2.00 |
| 1085 | 79.35 | 97.35 | 2.56 | 1.87 | 1.00 | 24.54 | 3.42 | 83.92 | 4.000 | Yes | No | 2.00 |
| 1086 | 79.45 | 114.43 | 2.50 | 1.84 | 1.00 | 29.03 | 2.95 | 85.78 | 4.000 | Yes | No | 2.00 |
| 1087 | 79.54 | 124.25 | 2.48 | 1.92 | 1.00 | 31.60 | 2.84 | 89.58 | 4.000 | No | No | 2.00 |
| 1088 | 79.64 | 131.23 | 2.47 | 1.97 | 1.00 | 33.41 | 2.75 | 91.91 | 4.000 | No | No | 2.00 |
| 1089 | 79.74 | 153.43 | 2.40 | 1.91 | 1.00 | 39.23 | 2.39 | 93.85 | 4.000 | No | No | 2.00 |
| 1090 | 79.88 | 186.93 | 2.31 | 1.77 | 1.00 | 48.00 | 1.98 | 94.86 | 4.000 | No | No | 2.00 |
| 1091 | 79.98 | 228.94 | 2.20 | 1.52 | 1.00 | 59.00 | 1.62 | 95.73 | 4.000 | No | No | 2.00 |
| 1092 | 80.12 | 248.77 | 2.14 | 1.34 | 1.00 | 64.13 | 1.48 | 95.14 | 4.000 | No | No | 2.00 |
| 1093 | 80.22 | 253.19 | 2.09 | 1.12 | 1.00 | 65.23 | 1.40 | 91.22 | 4.000 | No | No | 2.00 |
| 1094 | 80.36 | 244.79 | 2.06 | 0.97 | 1.00 | 62.94 | 1.37 | 86.07 | 4.000 | No | No | 2.00 |
| 1095 | 80.46 | 238.82 | 2.02 | 0.78 | 1.00 | 61.33 | 1.32 | 81.11 | 4.000 | No | No | 2.00 |
| 1096 | 80.60 | 231.84 | 1.99 | 0.66 | 1.00 | 59.42 | 1.30 | 77.21 | 4.000 | No | No | 2.00 |
| 1097 | 80.70 | 223.91 | 1.99 | 0.62 | 1.00 | 57.30 | 1.30 | 74.37 | 4.000 | No | No | 2.00 |
| 1098 | 80.83 | 213.12 | 2.02 | 0.65 | 1.00 | 54.42 | 1.32 | 72.04 | 4.000 | Yes | No | 2.00 |
| 1099 | 80.94 | 194.49 | 2.09 | 0.77 | 1.00 | 49.51 | 1.41 | 69.62 | 4.000 | Yes | No | 2.00 |
| 1100 | 81.01 | 177.96 | 2.15 | 0.85 | 1.00 | 45.17 | 1.50 | 67.91 | 4.000 | Yes | No | 2.00 |
| 1101 | 81.04 | 164.23 | 2.19 | 0.91 | 1.00 | 41.58 | 1.60 | 66.50 | 4.000 | Yes | No | 2.00 |
| 1102 | 81.09 | 158.43 | 2.21 | 0.93 | 1.00 | 40.05 | 1.65 | 65.97 | 4.000 | Yes | No | 2.00 |
| 1103 | 81.13 | 149.59 | 2.25 | 0.99 | 1.00 | 37.74 | 1.75 | 66.04 | 4.000 | Yes | No | 2.00 |
| 1104 | 81.18 | 136.87 | 2.31 | 1.12 | 1.00 | 34.41 | 1.98 | 67.98 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1105 | 81.23 | 123.31 | 2.39 | 1.33 | 1.00 | 30.87 | 2.34 | 72.13 | 4.000 | Yes | No | 2.00 |
| 1106 | 81.28 | 109.41 | 2.48 | 1.58 | 1.00 | 27.24 | 2.85 | 77.64 | 4.000 | Yes | No | 2.00 |
| 1107 | 81.33 | 98.17 | 2.57 | 1.89 | 1.00 | 24.30 | 3.46 | 84.19 | 4.000 | Yes | No | 2.00 |
| 1108 | 81.37 | 88.49 | 2.65 | 2.30 | 1.00 | 21.78 | 4.25 | 92.48 | 4.000 | Yes | Yes | 2.00 |
| 1109 | 81.42 | 81.24 | 2.73 | 2.74 | 1.00 | 19.88 | 5.05 | 100.46 | 4.000 | Yes | Yes | 2.00 |
| 1110 | 81.47 | 75.77 | 2.79 | 3.12 | 1.00 | 18.46 | 5.75 | 106.15 | 4.000 | Yes | Yes | 2.00 |
| 1111 | 81.52 | 71.99 | 2.83 | 3.36 | 1.00 | 17.47 | 6.25 | 109.13 | 4.000 | Yes | Yes | 2.00 |
| 1112 | 81.56 | 70.98 | 2.85 | 3.50 | 1.00 | 17.20 | 6.46 | 111.09 | 4.000 | Yes | Yes | 2.00 |
| 1113 | 81.61 | 70.58 | 2.86 | 3.61 | 1.00 | 17.08 | 6.60 | 112.75 | 4.000 | No | Yes | 2.00 |
| 1114 | 81.64 | 68.79 | 2.88 | 3.76 | 1.00 | 16.62 | 6.89 | 114.41 | 4.000 | No | Yes | 2.00 |
| 1115 | 81.70 | 62.18 | 2.94 | 4.16 | 1.00 | 14.89 | 7.85 | 116.91 | 4.000 | No | Yes | 2.00 |
| 1116 | 81.75 | 54.38 | 3.03 | 4.72 | 1.00 | 12.87 | 9.25 | 118.94 | 4.000 | No | Yes | 2.00 |
| 1117 | 81.79 | 46.89 | 3.11 | 5.33 | 1.00 | 10.92 | 10.91 | 119.14 | 4.000 | No | Yes | 2.00 |
| 1118 | 81.82 | 41.90 | 3.17 | 5.62 | 1.00 | 9.62 | 12.12 | 116.62 | 4.000 | No | Yes | 2.00 |
| 1119 | 81.86 | 37.62 | 3.22 | 5.76 | 1.00 | 8.51 | 13.21 | 112.49 | 4.000 | No | Yes | 2.00 |
| 1120 | 81.91 | 34.01 | 3.26 | 5.79 | 1.00 | 7.57 | 14.21 | 107.66 | 4.000 | No | Yes | 2.00 |
| 1121 | 81.95 | 30.63 | 3.30 | 5.75 | 1.00 | 6.70 | 15.27 | 102.27 | 4.000 | No | Yes | 2.00 |
| 1122 | 82.00 | 27.33 | 3.34 | 5.61 | 1.00 | 5.84 | 16.41 | 95.81 | 4.000 | No | Yes | 2.00 |
| 1123 | 82.09 | 24.26 | 3.39 | 5.48 | 1.00 | 5.04 | 17.74 | 89.46 | 4.000 | No | Yes | 2.00 |
| 1124 | 82.15 | 21.66 | 3.44 | 5.50 | 1.00 | 4.37 | 19.38 | 84.64 | 4.000 | No | Yes | 2.00 |
| 1125 | 82.19 | 19.83 | 3.48 | 5.52 | 1.00 | 3.89 | 20.80 | 81.03 | 4.000 | No | Yes | 2.00 |
| 1126 | 82.26 | 18.38 | 3.52 | 5.48 | 1.00 | 3.52 | 22.06 | 77.56 | 4.000 | No | Yes | 2.00 |
| 1127 | 82.34 | 17.00 | 3.56 | 5.45 | 1.00 | 3.16 | 23.49 | 74.17 | 4.000 | No | Yes | 2.00 |
| 1128 | 82.39 | 15.65 | 3.61 | 5.65 | 1.00 | 2.81 | 25.58 | 71.81 | 4.000 | No | Yes | 2.00 |
| 1129 | 82.48 | 14.77 | 3.64 | 5.76 | 1.00 | 2.58 | 27.14 | 69.97 | 4.000 | No | Yes | 2.00 |
| 1130 | 82.58 | 14.64 | 3.64 | 5.47 | 1.00 | 2.54 | 26.84 | 68.21 | 4.000 | No | Yes | 2.00 |
| 1131 | 82.62 | 14.74 | 3.62 | 5.09 | 1.00 | 2.57 | 25.95 | 66.60 | 4.000 | No | Yes | 2.00 |
| 1132 | 82.70 | 14.88 | 3.60 | 4.83 | 1.00 | 2.60 | 25.23 | 65.56 | 4.000 | No | Yes | 2.00 |
| 1133 | 82.77 | 14.81 | 3.59 | 4.65 | 1.00 | 2.58 | 24.98 | 64.46 | 4.000 | No | Yes | 2.00 |
| 1134 | 82.87 | 15.08 | 3.57 | 4.45 | 1.00 | 2.65 | 24.19 | 64.01 | 4.000 | No | Yes | 2.00 |
| 1135 | 82.96 | 16.23 | 3.51 | 3.90 | 1.00 | 2.94 | 21.57 | 63.38 | 4.000 | No | Yes | 2.00 |
| 1136 | 83.06 | 18.22 | 3.41 | 3.33 | 1.00 | 3.45 | 18.38 | 63.34 | 4.000 | No | Yes | 2.00 |
| 1137 | 83.16 | 21.39 | 3.29 | 2.70 | 1.00 | 4.26 | 14.82 | 63.10 | 4.000 | No | Yes | 2.00 |
| 1138 | 83.25 | 24.46 | 3.19 | 2.32 | 1.00 | 5.04 | 12.49 | 62.94 | 4.000 | No | Yes | 2.00 |
| 1139 | 83.34 | 27.20 | 3.11 | 2.06 | 1.00 | 5.74 | 10.91 | 62.57 | 4.000 | No | Yes | 2.00 |
| 1140 | 83.44 | 28.34 | 3.10 | 2.06 | 1.00 | 6.03 | 10.55 | 63.55 | 4.000 | No | Yes | 2.00 |
| 1141 | 83.54 | 28.75 | 3.10 | 2.14 | 1.00 | 6.12 | 10.60 | 64.89 | 4.000 | No | Yes | 2.00 |
| 1142 | 83.64 | 28.61 | 3.12 | 2.29 | 1.00 | 6.08 | 10.93 | 66.49 | 4.000 | No | Yes | 2.00 |
| 1143 | 83.73 | 27.70 | 3.15 | 2.52 | 1.00 | 5.84 | 11.68 | 68.29 | 4.000 | No | Yes | 2.00 |
| 1144 | 83.83 | 27.26 | 3.18 | 2.77 | 1.00 | 5.73 | 12.30 | 70.46 | 4.000 | No | Yes | 2.00 |
| 1145 | 83.85 | 26.83 | 3.21 | 3.11 | 1.00 | 5.62 | 13.07 | 73.38 | 4.000 | No | Yes | 2.00 |
| 1146 | 83.89 | 27.47 | 3.22 | 3.29 | 1.00 | 5.78 | 13.14 | 75.93 | 4.000 | No | Yes | 2.00 |
| 1147 | 83.94 | 28.11 | 3.24 | 3.78 | 1.00 | 5.94 | 13.69 | 81.26 | 4.000 | No | Yes | 2.00 |
| 1148 | 84.04 | 29.26 | 3.25 | 4.14 | 1.00 | 6.23 | 13.80 | 85.92 | 4.000 | No | Yes | 2.00 |
| 1149 | 84.09 | 30.40 | 3.25 | 4.44 | 1.00 | 6.51 | 13.83 | 90.10 | 4.000 | No | Yes | 2.00 |
| 1150 | 84.13 | 31.28 | 3.24 | 4.51 | 1.00 | 6.74 | 13.65 | 91.94 | 4.000 | No | Yes | 2.00 |
| 1151 | 84.18 | 31.68 | 3.24 | 4.64 | 1.00 | 6.83 | 13.70 | 93.61 | 4.000 | No | Yes | 2.00 |
| 1152 | 84.25 | 31.52 | 3.25 | 4.81 | 1.00 | 6.79 | 13.97 | 94.85 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1153 | 84.33 | 30.64 | 3.28 | 5.04 | 1.00 | 6.56 | 14.57 | 95.60 | 4.000 | No | Yes | 2.00 |
| 1154 | 84.37 | 29.46 | 3.31 | 5.29 | 1.00 | 6.26 | 15.33 | 95.90 | 4.000 | No | Yes | 2.00 |
| 1155 | 84.46 | 28.35 | 3.33 | 5.40 | 1.00 | 5.97 | 15.91 | 94.98 | 4.000 | No | Yes | 2.00 |
| 1156 | 84.52 | 27.50 | 3.34 | 5.37 | 1.00 | 5.75 | 16.25 | 93.43 | 4.000 | No | Yes | 2.00 |
| 1157 | 84.57 | 26.90 | 3.34 | 5.22 | 1.00 | 5.59 | 16.32 | 91.27 | 4.000 | No | Yes | 2.00 |
| 1158 | 84.67 | 26.52 | 3.34 | 5.14 | 1.00 | 5.49 | 16.38 | 90.00 | 4.000 | No | Yes | 2.00 |
| 1159 | 84.71 | 26.15 | 3.35 | 5.18 | 1.00 | 5.40 | 16.62 | 89.72 | 4.000 | No | Yes | 2.00 |
| 1160 | 84.81 | 25.58 | 3.38 | 5.48 | 1.00 | 5.25 | 17.32 | 90.86 | 4.000 | No | Yes | 2.00 |
| 1161 | 84.86 | 24.84 | 3.41 | 5.93 | 1.00 | 5.06 | 18.32 | 92.62 | 4.000 | No | Yes | 2.00 |
| 1162 | 84.91 | 24.06 | 3.44 | 6.37 | 1.00 | 4.86 | 19.36 | 94.03 | 4.000 | No | Yes | 2.00 |
| 1163 | 85.00 | 23.42 | 3.47 | 6.69 | 1.00 | 4.69 | 20.18 | 94.63 | 4.000 | No | Yes | 2.00 |
| 1164 | 85.05 | 22.81 | 3.48 | 6.79 | 1.00 | 4.53 | 20.72 | 93.94 | 4.000 | No | Yes | 2.00 |
| 1165 | 85.15 | 22.34 | 3.49 | 6.69 | 1.00 | 4.41 | 20.94 | 92.30 | 4.000 | No | Yes | 2.00 |
| 1166 | 85.19 | 21.80 | 3.49 | 6.36 | 1.00 | 4.27 | 20.88 | 89.13 | 4.000 | No | Yes | 2.00 |
| 1167 | 85.29 | 21.33 | 3.48 | 6.00 | 1.00 | 4.15 | 20.74 | 85.98 | 4.000 | No | Yes | 2.00 |
| 1168 | 85.35 | 20.72 | 3.49 | 5.75 | 1.00 | 3.99 | 20.84 | 83.14 | 4.000 | No | Yes | 2.00 |
| 1169 | 85.42 | 20.08 | 3.50 | 5.71 | 1.00 | 3.82 | 21.32 | 81.54 | 4.000 | No | Yes | 2.00 |
| 1170 | 85.48 | 19.40 | 3.52 | 5.78 | 1.00 | 3.65 | 22.03 | 80.45 | 4.000 | No | Yes | 2.00 |
| 1171 | 85.55 | 18.77 | 3.54 | 5.87 | 1.00 | 3.49 | 22.80 | 79.50 | 4.000 | No | Yes | 2.00 |
| 1172 | 85.63 | 18.19 | 3.56 | 5.98 | 1.00 | 3.34 | 23.58 | 78.76 | 4.000 | No | Yes | 2.00 |
| 1173 | 85.68 | 17.62 | 3.58 | 6.16 | 1.00 | 3.19 | 24.50 | 78.25 | 4.000 | No | Yes | 2.00 |
| 1174 | 85.77 | 17.18 | 3.60 | 6.34 | 1.00 | 3.08 | 25.34 | 78.03 | 4.000 | No | Yes | 2.00 |
| 1175 | 85.82 | 17.04 | 3.61 | 6.47 | 1.00 | 3.04 | 25.74 | 78.34 | 4.000 | No | Yes | 2.00 |
| 1176 | 85.89 | 17.42 | 3.60 | 6.38 | 1.00 | 3.13 | 25.13 | 78.79 | 4.000 | No | Yes | 2.00 |
| 1177 | 85.96 | 18.33 | 3.56 | 5.99 | 1.00 | 3.36 | 23.51 | 79.01 | 4.000 | No | Yes | 2.00 |
| 1178 | 86.03 | 19.71 | 3.49 | 5.35 | 1.00 | 3.71 | 21.16 | 78.44 | 4.000 | No | Yes | 2.00 |
| 1179 | 86.11 | 21.06 | 3.44 | 4.76 | 1.00 | 4.04 | 19.14 | 77.40 | 4.000 | No | Yes | 2.00 |
| 1180 | 86.16 | 22.11 | 3.39 | 4.32 | 1.00 | 4.30 | 17.71 | 76.21 | 4.000 | No | Yes | 2.00 |
| 1181 | 86.25 | 21.67 | 3.40 | 4.38 | 1.00 | 4.19 | 18.09 | 75.81 | 4.000 | No | Yes | 2.00 |
| 1182 | 86.36 | 19.98 | 3.45 | 4.62 | 1.00 | 3.76 | 19.76 | 74.32 | 4.000 | No | Yes | 2.00 |
| 1183 | 86.50 | 18.16 | 3.52 | 4.99 | 1.00 | 3.30 | 22.08 | 72.85 | 4.000 | No | Yes | 2.00 |
| 1184 | 86.51 | 17.25 | 3.55 | 5.00 | 1.00 | 3.07 | 23.09 | 70.91 | 4.000 | No | Yes | 2.00 |
| 1185 | 86.52 | 17.32 | 3.53 | 4.74 | 1.00 | 3.09 | 22.53 | 69.58 | 4.000 | No | Yes | 2.00 |
| 1186 | 86.57 | 17.35 | 3.51 | 4.25 | 1.00 | 3.10 | 21.58 | 66.80 | 4.000 | No | Yes | 2.00 |
| 1187 | 86.65 | 17.39 | 3.48 | 3.72 | 1.00 | 3.10 | 20.48 | 63.50 | 4.000 | No | Yes | 2.00 |
| 1188 | 86.71 | 17.35 | 3.45 | 3.31 | 1.00 | 3.09 | 19.65 | 60.73 | 4.000 | No | Yes | 2.00 |
| 1189 | 86.80 | 17.08 | 3.45 | 3.15 | 1.00 | 3.02 | 19.57 | 59.11 | 4.000 | No | Yes | 2.00 |
| 1190 | 86.90 | 16.48 | 3.46 | 3.06 | 1.00 | 2.87 | 20.04 | 57.42 | 4.000 | No | Yes | 2.00 |
| 1191 | 86.99 | 15.77 | 3.48 | 3.01 | 1.00 | 2.69 | 20.75 | 55.74 | 4.000 | No | Yes | 2.00 |
| 1192 | 87.04 | 15.26 | 3.50 | 2.94 | 1.00 | 2.56 | 21.24 | 54.32 | 4.000 | No | Yes | 2.00 |
| 1193 | 87.14 | 15.16 | 3.49 | 2.85 | 1.00 | 2.53 | 21.16 | 53.51 | 4.000 | No | Yes | 2.00 |
| 1194 | 87.19 | 15.36 | 3.48 | 2.77 | 1.00 | 2.58 | 20.70 | 53.36 | 4.000 | No | Yes | 2.00 |
| 1195 | 87.28 | 15.87 | 3.46 | 2.79 | 1.00 | 2.70 | 20.13 | 54.40 | 4.000 | No | Yes | 2.00 |
| 1196 | 87.38 | 16.51 | 3.45 | 2.81 | 1.00 | 2.86 | 19.47 | 55.67 | 4.000 | No | Yes | 2.00 |
| 1197 | 87.43 | 17.18 | 3.42 | 2.82 | 1.00 | 3.03 | 18.79 | 56.85 | 4.000 | No | Yes | 2.00 |
| 1198 | 87.52 | 17.76 | 3.40 | 2.76 | 1.00 | 3.17 | 18.12 | 57.36 | 4.000 | No | Yes | 2.00 |
| 1199 | 87.61 | 18.23 | 3.38 | 2.70 | 1.00 | 3.28 | 17.55 | 57.58 | 4.000 | No | Yes | 2.00 |
| 1200 | 87.66 | 18.53 | 3.37 | 2.63 | 1.00 | 3.35 | 17.13 | 57.47 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1201 | 87.76 | 18.57 | 3.37 | 2.58 | 1.00 | 3.36 | 17.00 | 57.12 | 4.000 | No | Yes | 2.00 |
| 1202 | 87.84 | 18.43 | 3.37 | 2.54 | 1.00 | 3.32 | 17.02 | 56.58 | 4.000 | No | Yes | 2.00 |
| 1203 | 87.91 | 18.13 | 3.37 | 2.53 | 1.00 | 3.25 | 17.27 | 56.08 | 4.000 | No | Yes | 2.00 |
| 1204 | 88.00 | 17.79 | 3.39 | 2.53 | 1.00 | 3.16 | 17.58 | 55.54 | 4.000 | No | Yes | 2.00 |
| 1205 | 88.11 | 17.46 | 3.40 | 2.56 | 1.00 | 3.07 | 17.98 | 55.23 | 4.000 | No | Yes | 2.00 |
| 1206 | 88.19 | 17.22 | 3.41 | 2.58 | 1.00 | 3.01 | 18.27 | 55.01 | 4.000 | No | Yes | 2.00 |
| 1207 | 88.25 | 17.08 | 3.41 | 2.59 | 1.00 | 2.98 | 18.42 | 54.79 | 4.000 | No | Yes | 2.00 |
| 1208 | 88.34 | 17.02 | 3.41 | 2.53 | 1.00 | 2.96 | 18.36 | 54.27 | 4.000 | No | Yes | 2.00 |
| 1209 | 88.44 | 16.98 | 3.41 | 2.45 | 1.00 | 2.94 | 18.20 | 53.59 | 4.000 | No | Yes | 2.00 |
| 1210 | 88.54 | 16.98 | 3.40 | 2.37 | 1.00 | 2.94 | 17.99 | 52.93 | 4.000 | No | Yes | 2.00 |
| 1211 | 88.64 | 16.95 | 3.40 | 2.33 | 1.00 | 2.93 | 17.92 | 52.52 | 4.000 | No | Yes | 2.00 |
| 1212 | 88.72 | 16.88 | 3.40 | 2.33 | 1.00 | 2.91 | 18.00 | 52.42 | 4.000 | No | Yes | 2.00 |
| 1213 | 88.82 | 16.82 | 3.40 | 2.36 | 1.00 | 2.89 | 18.16 | 52.53 | 4.000 | No | Yes | 2.00 |
| 1214 | 88.91 | 16.72 | 3.41 | 2.41 | 1.00 | 2.87 | 18.42 | 52.79 | 4.000 | No | Yes | 2.00 |
| 1215 | 89.01 | 16.62 | 3.42 | 2.47 | 1.00 | 2.84 | 18.68 | 53.02 | 4.000 | No | Yes | 2.00 |
| 1216 | 89.10 | 16.49 | 3.43 | 2.53 | 1.00 | 2.80 | 18.99 | 53.22 | 4.000 | No | Yes | 2.00 |
| 1217 | 89.19 | 16.32 | 3.44 | 2.53 | 1.00 | 2.76 | 19.19 | 52.91 | 4.000 | No | Yes | 2.00 |
| 1218 | 89.30 | 16.21 | 3.41 | 2.22 | 1.00 | 2.73 | 18.48 | 50.44 | 4.000 | No | Yes | 2.00 |
| 1219 | 89.39 | 16.31 | 3.39 | 2.02 | 1.00 | 2.75 | 17.80 | 48.98 | 4.000 | No | Yes | 2.00 |
| 1220 | 89.49 | 16.62 | 3.38 | 2.03 | 1.00 | 2.82 | 17.53 | 49.49 | 4.000 | No | Yes | 2.00 |
| 1221 | 89.59 | 16.90 | 3.41 | 2.39 | 1.00 | 2.89 | 18.25 | 52.76 | 4.000 | No | Yes | 2.00 |
| 1222 | 89.69 | 17.04 | 3.42 | 2.65 | 1.00 | 2.92 | 18.79 | 54.90 | 4.000 | No | Yes | 2.00 |
| 1223 | 89.73 | 17.68 | 3.40 | 2.64 | 1.00 | 3.08 | 18.14 | 55.86 | 4.000 | No | Yes | 2.00 |
| 1224 | 89.78 | 18.48 | 3.37 | 2.53 | 1.00 | 3.27 | 17.18 | 56.23 | 4.000 | No | Yes | 2.00 |
| 1225 | 89.83 | 19.36 | 3.34 | 2.42 | 1.00 | 3.49 | 16.22 | 56.56 | 4.000 | No | Yes | 2.00 |
| 1226 | 89.88 | 19.63 | 3.33 | 2.44 | 1.00 | 3.55 | 16.06 | 57.05 | 4.000 | No | Yes | 2.00 |
| 1227 | 89.93 | 19.86 | 3.33 | 2.48 | 1.00 | 3.61 | 16.01 | 57.77 | 4.000 | No | Yes | 2.00 |
| 1228 | 90.00 | 20.24 | 3.33 | 2.55 | 1.00 | 3.70 | 15.90 | 58.79 | 4.000 | No | Yes | 2.00 |
| 1229 | 90.07 | 20.88 | 3.31 | 2.57 | 1.00 | 3.85 | 15.53 | 59.82 | 4.000 | No | Yes | 2.00 |
| 1230 | 90.12 | 21.62 | 3.30 | 2.62 | 1.00 | 4.03 | 15.19 | 61.24 | 4.000 | No | Yes | 2.00 |
| 1231 | 90.22 | 22.26 | 3.29 | 2.71 | 1.00 | 4.19 | 15.01 | 62.84 | 4.000 | No | Yes | 2.00 |
| 1232 | 90.27 | 23.04 | 3.29 | 2.93 | 1.00 | 4.37 | 15.02 | 65.70 | 4.000 | No | Yes | 2.00 |
| 1233 | 90.36 | 24.99 | 3.26 | 2.95 | 1.00 | 4.85 | 14.09 | 68.34 | 4.000 | No | Yes | 2.00 |
| 1234 | 90.46 | 27.46 | 3.21 | 2.86 | 1.00 | 5.45 | 12.89 | 70.27 | 4.000 | No | Yes | 2.00 |
| 1235 | 90.50 | 29.28 | 3.17 | 2.76 | 1.00 | 5.89 | 12.05 | 71.01 | 4.000 | No | Yes | 2.00 |
| 1236 | 90.61 | 29.48 | 3.17 | 2.77 | 1.00 | 5.94 | 12.02 | 71.39 | 4.000 | No | Yes | 2.00 |
| 1237 | 90.66 | 28.70 | 3.18 | 2.82 | 1.00 | 5.75 | 12.38 | 71.12 | 4.000 | No | Yes | 2.00 |
| 1238 | 90.75 | 27.62 | 3.20 | 2.80 | 1.00 | 5.48 | 12.73 | 69.74 | 4.000 | No | Yes | 2.00 |
| 1239 | 90.84 | 26.17 | 3.22 | 2.78 | 1.00 | 5.12 | 13.28 | 67.94 | 4.000 | No | Yes | 2.00 |
| 1240 | 90.89 | 24.72 | 3.25 | 2.77 | 1.00 | 4.76 | 13.90 | 66.20 | 4.000 | No | Yes | 2.00 |
| 1241 | 90.99 | 23.48 | 3.28 | 2.82 | 1.00 | 4.45 | 14.63 | 65.12 | 4.000 | No | Yes | 2.00 |
| 1242 | 91.04 | 22.50 | 3.30 | 2.86 | 1.00 | 4.21 | 15.24 | 64.21 | 4.000 | No | Yes | 2.00 |
| 1243 | 91.14 | 21.59 | 3.33 | 2.94 | 1.00 | 3.99 | 15.98 | 63.69 | 4.000 | No | Yes | 2.00 |
| 1244 | 91.22 | 20.75 | 3.36 | 3.03 | 1.00 | 3.78 | 16.73 | 63.19 | 4.000 | No | Yes | 2.00 |
| 1245 | 91.28 | 19.83 | 3.39 | 3.13 | 1.00 | 3.55 | 17.61 | 62.55 | 4.000 | No | Yes | 2.00 |
| 1246 | 91.37 | 19.26 | 3.40 | 3.14 | 1.00 | 3.41 | 18.11 | 61.75 | 4.000 | No | Yes | 2.00 |
| 1247 | 91.47 | 18.99 | 3.40 | 3.07 | 1.00 | 3.34 | 18.18 | 60.75 | 4.000 | No | Yes | 2.00 |
| 1248 | 91.61 | 19.26 | 3.39 | 2.94 | 1.00 | 3.40 | 17.69 | 60.19 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1249 | 91.71 | 19.40 | 3.38 | 2.89 | 1.00 | 3.43 | 17.48 | 59.97 | 4.000 | No | Yes | 2.00 |
| 1250 | 91.81 | 19.50 | 3.38 | 2.88 | 1.00 | 3.45 | 17.39 | 60.03 | 4.000 | No | Yes | 2.00 |
| 1251 | 91.87 | 19.36 | 3.38 | 2.86 | 1.00 | 3.42 | 17.46 | 59.68 | 4.000 | No | Yes | 2.00 |
| 1252 | 92.00 | 19.38 | 3.36 | 2.58 | 1.00 | 3.42 | 16.82 | 57.50 | 4.000 | No | Yes | 2.00 |
| 1253 | 92.10 | 19.41 | 3.34 | 2.37 | 1.00 | 3.42 | 16.30 | 55.77 | 4.000 | No | Yes | 2.00 |
| 1254 | 92.20 | 19.62 | 3.32 | 2.25 | 1.00 | 3.47 | 15.85 | 54.98 | 4.000 | No | Yes | 2.00 |
| 1255 | 92.33 | 19.76 | 3.33 | 2.39 | 1.00 | 3.50 | 16.12 | 56.37 | 4.000 | No | Yes | 2.00 |
| 1256 | 92.38 | 19.89 | 3.34 | 2.50 | 1.00 | 3.53 | 16.27 | 57.43 | 4.000 | No | Yes | 2.00 |
| 1257 | 92.43 | 20.03 | 3.34 | 2.54 | 1.00 | 3.56 | 16.28 | 57.96 | 4.000 | No | Yes | 2.00 |
| 1258 | 92.48 | 19.98 | 3.35 | 2.62 | 1.00 | 3.55 | 16.52 | 58.57 | 4.000 | No | Yes | 2.00 |
| 1259 | 92.56 | 19.88 | 3.36 | 2.71 | 1.00 | 3.52 | 16.79 | 59.09 | 4.000 | No | Yes | 2.00 |
| 1260 | 92.63 | 19.64 | 3.37 | 2.79 | 1.00 | 3.46 | 17.17 | 59.41 | 4.000 | No | Yes | 2.00 |
| 1261 | 92.67 | 19.57 | 3.37 | 2.81 | 1.00 | 3.44 | 17.27 | 59.42 | 4.000 | No | Yes | 2.00 |
| 1262 | 92.72 | 19.54 | 3.38 | 2.81 | 1.00 | 3.43 | 17.30 | 59.38 | 4.000 | No | Yes | 2.00 |
| 1263 | 92.77 | 19.64 | 3.37 | 2.79 | 1.00 | 3.46 | 17.18 | 59.37 | 4.000 | No | Yes | 2.00 |
| 1264 | 92.86 | 19.84 | 3.37 | 2.77 | 1.00 | 3.50 | 16.99 | 59.49 | 4.000 | No | Yes | 2.00 |
| 1265 | 92.92 | 20.08 | 3.36 | 2.78 | 1.00 | 3.56 | 16.84 | 59.88 | 4.000 | No | Yes | 2.00 |
| 1266 | 92.97 | 20.21 | 3.37 | 2.90 | 1.00 | 3.59 | 17.01 | 61.03 | 4.000 | No | Yes | 2.00 |
| 1267 | 93.05 | 20.35 | 3.37 | 3.02 | 1.00 | 3.62 | 17.17 | 62.12 | 4.000 | No | Yes | 2.00 |
| 1268 | 93.10 | 20.62 | 3.37 | 3.09 | 1.00 | 3.68 | 17.13 | 63.07 | 4.000 | No | Yes | 2.00 |
| 1269 | 93.16 | 21.10 | 3.35 | 3.03 | 1.00 | 3.79 | 16.68 | 63.28 | 4.000 | No | Yes | 2.00 |
| 1270 | 93.25 | 21.70 | 3.33 | 2.92 | 1.00 | 3.94 | 16.06 | 63.20 | 4.000 | No | Yes | 2.00 |
| 1271 | 93.35 | 22.78 | 3.29 | 2.71 | 1.00 | 4.19 | 14.99 | 62.84 | 4.000 | No | Yes | 2.00 |
| 1272 | 93.40 | 23.19 | 3.27 | 2.59 | 1.00 | 4.29 | 14.52 | 62.27 | 4.000 | No | Yes | 2.00 |
| 1273 | 93.49 | 23.25 | 3.27 | 2.54 | 1.00 | 4.30 | 14.38 | 61.82 | 4.000 | No | Yes | 2.00 |
| 1274 | 93.56 | 22.71 | 3.28 | 2.58 | 1.00 | 4.17 | 14.77 | 61.55 | 4.000 | No | Yes | 2.00 |
| 1275 | 93.64 | 22.88 | 3.28 | 2.57 | 1.00 | 4.21 | 14.66 | 61.65 | 4.000 | No | Yes | 2.00 |
| 1276 | 93.73 | 23.63 | 3.27 | 2.60 | 1.00 | 4.38 | 14.34 | 62.81 | 4.000 | No | Yes | 2.00 |
| 1277 | 93.83 | 24.91 | 3.25 | 2.65 | 1.00 | 4.69 | 13.81 | 64.72 | 4.000 | No | Yes | 2.00 |
| 1278 | 93.88 | 26.43 | 3.23 | 2.80 | 1.00 | 5.05 | 13.44 | 67.85 | 4.000 | No | Yes | 2.00 |
| 1279 | 93.97 | 27.01 | 3.24 | 3.00 | 1.00 | 5.18 | 13.58 | 70.35 | 4.000 | No | Yes | 2.00 |
| 1280 | 94.07 | 26.43 | 3.27 | 3.36 | 1.00 | 5.04 | 14.48 | 72.95 | 4.000 | No | Yes | 2.00 |
| 1281 | 94.17 | 25.76 | 3.31 | 3.78 | 1.00 | 4.87 | 15.51 | 75.57 | 4.000 | No | Yes | 2.00 |
| 1282 | 94.26 | 26.70 | 3.29 | 3.75 | 1.00 | 5.09 | 15.04 | 76.60 | 4.000 | No | Yes | 2.00 |
| 1283 | 94.36 | 27.88 | 3.30 | 4.18 | 1.00 | 5.37 | 15.22 | 81.75 | 4.000 | No | Yes | 2.00 |
| 1284 | 94.45 | 29.47 | 3.30 | 4.56 | 1.00 | 5.75 | 15.14 | 87.02 | 4.000 | No | Yes | 2.00 |
| 1285 | 94.55 | 35.88 | 3.19 | 4.21 | 1.00 | 7.27 | 12.61 | 91.74 | 4.000 | No | Yes | 2.00 |
| 1286 | 94.64 | 48.46 | 3.00 | 3.11 | 1.00 | 10.27 | 8.71 | 89.52 | 4.000 | No | Yes | 2.00 |
| 1287 | 94.72 | 59.93 | 2.85 | 2.46 | 1.00 | 13.01 | 6.55 | 85.22 | 4.000 | No | Yes | 2.00 |
| 1288 | 94.74 | 73.87 | 2.72 | 1.96 | 1.00 | 16.33 | 4.89 | 79.85 | 4.000 | No | Yes | 2.00 |
| 1289 | 94.77 | 84.50 | 2.64 | 1.75 | 1.00 | 18.86 | 4.08 | 76.98 | 4.000 | No | Yes | 2.00 |
| 1290 | 94.85 | 97.35 | 2.56 | 1.57 | 1.00 | 21.92 | 3.39 | 74.39 | 4.000 | No | No | 2.00 |
| 1291 | 94.90 | 102.75 | 2.54 | 1.57 | 1.00 | 23.20 | 3.24 | 75.17 | 4.000 | No | No | 2.00 |
| 1292 | 94.95 | 105.32 | 2.54 | 1.66 | 1.00 | 23.80 | 3.27 | 77.89 | 4.000 | No | No | 2.00 |
| 1293 | 95.01 | 104.68 | 2.58 | 1.94 | 1.00 | 23.63 | 3.61 | 85.22 | 4.000 | No | No | 2.00 |
| 1294 | 95.09 | 100.83 | 2.64 | 2.34 | 1.00 | 22.70 | 4.16 | 94.37 | 4.000 | No | Yes | 2.00 |
| 1295 | 95.14 | 94.49 | 2.73 | 2.97 | 1.00 | 21.18 | 5.05 | 107.02 | 4.000 | No | Yes | 2.00 |
| 1296 | 95.23 | 86.42 | 2.82 | 3.64 | 1.00 | 19.25 | 6.10 | 117.34 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1297 | 95.29 | 78.06 | 2.91 | 4.43 | 1.00 | 17.25 | 7.36 | 126.89 | 4.000 | No | Yes | 2.00 |
| 1298 | 95.38 | 71.11 | 2.98 | 5.04 | 1.00 | 15.59 | 8.45 | 131.69 | 4.000 | No | Yes | 2.00 |
| 1299 | 95.43 | 67.53 | 3.02 | 5.36 | 1.00 | 14.73 | 9.06 | 133.43 | 4.000 | No | Yes | 2.00 |
| 1300 | 95.52 | 67.83 | 3.01 | 5.27 | 1.00 | 14.79 | 8.96 | 132.50 | 4.000 | No | Yes | 2.00 |
| 1301 | 95.57 | 70.23 | 2.98 | 4.89 | 1.00 | 15.35 | 8.40 | 128.95 | 4.000 | No | Yes | 2.00 |
| 1302 | 95.67 | 71.24 | 2.95 | 4.48 | 1.00 | 15.58 | 7.93 | 123.49 | 4.000 | No | Yes | 2.00 |
| 1303 | 95.77 | 66.52 | 2.97 | 4.36 | 1.00 | 14.45 | 8.22 | 118.72 | 4.000 | No | Yes | 2.00 |
| 1304 | 95.86 | 56.97 | 3.06 | 4.90 | 1.00 | 12.17 | 9.76 | 118.80 | 4.000 | No | Yes | 2.00 |
| 1305 | 95.95 | 52.94 | 3.09 | 5.00 | 1.00 | 11.21 | 10.40 | 116.56 | 4.000 | No | Yes | 2.00 |
| 1306 | 96.03 | 46.73 | 3.17 | 5.75 | 1.00 | 9.74 | 12.16 | 118.40 | 4.000 | No | Yes | 2.00 |
| 1307 | 96.11 | 51.55 | 3.12 | 5.30 | 1.00 | 10.87 | 10.92 | 118.64 | 4.000 | No | Yes | 2.00 |
| 1308 | 96.20 | 59.20 | 3.06 | 5.23 | 1.00 | 12.66 | 9.84 | 124.65 | 4.000 | No | Yes | 2.00 |
| 1309 | 96.30 | 80.15 | 2.90 | 4.31 | 1.00 | 17.59 | 7.15 | 125.73 | 4.000 | Yes | Yes | 2.00 |
| 1310 | 96.39 | 101.37 | 2.77 | 3.72 | 1.00 | 22.58 | 5.51 | 124.50 | 4.000 | Yes | Yes | 2.00 |
| 1311 | 96.50 | 122.96 | 2.67 | 3.23 | 1.00 | 27.64 | 4.35 | 120.31 | 4.000 | Yes | Yes | 2.00 |
| 1312 | 96.59 | 144.96 | 2.54 | 2.51 | 1.00 | 32.80 | 3.25 | 106.72 | 4.000 | Yes | No | 2.00 |
| 1313 | 96.69 | 164.86 | 2.41 | 1.87 | 1.00 | 37.45 | 2.44 | 91.36 | 4.000 | Yes | No | 2.00 |
| 1314 | 96.78 | 180.18 | 2.29 | 1.32 | 1.00 | 41.02 | 1.89 | 77.51 | 4.000 | Yes | No | 2.00 |
| 1315 | 96.87 | 185.95 | 2.24 | 1.13 | 1.00 | 42.35 | 1.72 | 72.98 | 4.000 | Yes | No | 2.00 |
| 1316 | 96.98 | 185.28 | 2.23 | 1.08 | 1.00 | 42.15 | 1.69 | 71.40 | 4.000 | No | No | 2.00 |
| 1317 | 97.02 | 177.79 | 2.26 | 1.14 | 1.00 | 40.38 | 1.78 | 71.90 | 4.000 | No | No | 2.00 |
| 1318 | 97.06 | 176.40 | 2.27 | 1.20 | 1.00 | 40.04 | 1.83 | 73.47 | 4.000 | No | No | 2.00 |
| 1319 | 97.12 | 175.60 | 2.30 | 1.30 | 1.00 | 39.84 | 1.91 | 76.16 | 4.000 | No | No | 2.00 |
| 1320 | 97.16 | 176.98 | 2.31 | 1.41 | 1.00 | 40.15 | 1.98 | 79.48 | 4.000 | No | No | 2.00 |
| 1321 | 97.21 | 173.67 | 2.35 | 1.58 | 1.00 | 39.35 | 2.13 | 83.99 | 4.000 | No | No | 2.00 |
| 1322 | 97.27 | 170.50 | 2.39 | 1.77 | 1.00 | 38.59 | 2.31 | 89.17 | 4.000 | No | No | 2.00 |
| 1323 | 97.33 | 168.21 | 2.42 | 1.93 | 1.00 | 38.04 | 2.46 | 93.67 | 4.000 | No | No | 2.00 |
| 1324 | 97.40 | 165.98 | 2.44 | 2.03 | 1.00 | 37.49 | 2.57 | 96.33 | 4.000 | No | No | 2.00 |
| 1325 | 97.45 | 163.92 | 2.45 | 2.09 | 1.00 | 37.00 | 2.64 | 97.51 | 4.000 | Yes | No | 2.00 |
| 1326 | 97.50 | 161.39 | 2.47 | 2.20 | 1.00 | 36.39 | 2.76 | 100.38 | 4.000 | Yes | No | 2.00 |
| 1327 | 97.58 | 155.82 | 2.50 | 2.38 | 1.00 | 35.06 | 2.99 | 104.78 | 4.000 | Yes | No | 2.00 |
| 1328 | 97.65 | 146.95 | 2.55 | 2.64 | 1.00 | 32.97 | 3.34 | 110.26 | 4.000 | Yes | No | 2.00 |
| 1329 | 97.69 | 134.43 | 2.60 | 2.87 | 1.00 | 30.04 | 3.79 | 113.95 | 4.000 | Yes | Yes | 2.00 |
| 1330 | 97.74 | 121.75 | 2.66 | 3.06 | 1.00 | 27.07 | 4.27 | 115.68 | 4.000 | Yes | Yes | 2.00 |
| 1331 | 97.81 | 110.51 | 2.71 | 3.22 | 1.00 | 24.44 | 4.76 | 116.42 | 4.000 | Yes | Yes | 2.00 |
| 1332 | 97.88 | 103.09 | 2.74 | 3.33 | 1.00 | 22.69 | 5.14 | 116.63 | 4.000 | Yes | Yes | 2.00 |
| 1333 | 97.93 | 108.66 | 2.70 | 3.05 | 1.00 | 23.98 | 4.67 | 111.98 | 4.000 | Yes | Yes | 2.00 |
| 1334 | 98.03 | 138.72 | 2.52 | 2.22 | 1.00 | 30.95 | 3.15 | 97.35 | 4.000 | Yes | No | 2.00 |
| 1335 | 98.15 | 182.62 | 2.33 | 1.53 | 1.00 | 41.12 | 2.03 | 83.50 | 4.000 | Yes | No | 2.00 |
| 1336 | 98.21 | 228.43 | 2.15 | 1.06 | 1.00 | 51.75 | 1.51 | 78.05 | 4.000 | Yes | No | 2.00 |
| 1337 | 98.32 | 264.20 | 2.03 | 0.81 | 1.00 | 60.00 | 1.34 | 80.19 | 4.000 | Yes | No | 2.00 |
| 1338 | 98.42 | 301.85 | 1.92 | 0.62 | 1.00 | 68.69 | 1.25 | 85.96 | 4.000 | Yes | No | 2.00 |
| 1339 | 98.47 | 349.59 | 1.79 | 0.45 | 1.00 | 79.73 | 1.00 | 79.73 | 4.000 | Yes | No | 2.00 |
| 1340 | 98.57 | 388.76 | 1.69 | 0.32 | 1.00 | 88.75 | 1.00 | 88.75 | 4.000 | No | No | 2.00 |
| 1341 | 98.70 | 411.84 | 1.61 | 0.24 | 1.00 | 94.00 | 1.00 | 94.00 | 4.000 | No | No | 2.00 |
| 1342 | 98.78 | 404.01 | 1.62 | 0.24 | 1.00 | 92.13 | 1.00 | 92.13 | 4.000 | No | No | 2.00 |
| 1343 | 98.85 | 372.43 | 1.67 | 0.27 | 1.00 | 84.79 | 1.00 | 84.79 | 4.000 | No | No | 2.00 |
| 1344 | 98.86 | 337.78 | 1.74 | 0.31 | 1.00 | 76.77 | 1.00 | 76.77 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1345 | 98.92 | 322.73 | 1.77 | 0.33 | 1.00 | 73.26 | 1.00 | 73.26 | 4.000 | No | No | 2.00 |
| 1346 | 98.98 | 318.48 | 1.78 | 0.34 | 1.00 | 72.24 | 1.00 | 72.24 | 4.000 | Yes | No | 2.00 |
| 1347 | 99.03 | 309.41 | 1.81 | 0.38 | 1.00 | 70.12 | 1.00 | 70.12 | 4.000 | Yes | No | 2.00 |
| 1348 | 99.11 | 281.64 | 1.90 | 0.48 | 1.00 | 63.67 | 1.00 | 63.67 | 4.000 | Yes | No | 2.00 |
| 1349 | 99.18 | 255.32 | 1.99 | 0.62 | 1.00 | 57.57 | 1.30 | 74.69 | 4.000 | Yes | No | 2.00 |
| 1350 | 99.23 | 231.33 | 2.09 | 0.83 | 1.00 | 52.01 | 1.41 | 73.25 | 4.000 | Yes | No | 2.00 |
| 1351 | 99.32 | 209.84 | 2.20 | 1.12 | 1.00 | 47.02 | 1.62 | 76.01 | 4.000 | Yes | No | 2.00 |
| 1352 | 99.37 | 189.39 | 2.31 | 1.49 | 1.00 | 42.29 | 1.96 | 83.05 | 4.000 | Yes | No | 2.00 |
| 1353 | 99.45 | 170.57 | 2.40 | 1.81 | 1.00 | 37.93 | 2.37 | 90.04 | 4.000 | Yes | No | 2.00 |
| 1354 | 99.56 | 157.24 | 2.47 | 2.08 | 1.00 | 34.83 | 2.76 | 96.01 | 4.000 | Yes | No | 2.00 |
| 1355 | 99.64 | 147.39 | 2.52 | 2.34 | 1.00 | 32.55 | 3.13 | 101.90 | 4.000 | Yes | No | 2.00 |
| 1356 | 99.71 | 140.04 | 2.57 | 2.64 | 1.00 | 30.84 | 3.53 | 108.77 | 4.000 | Yes | No | 2.00 |
| 1357 | 99.75 | 128.26 | 2.63 | 2.93 | 1.00 | 28.12 | 4.04 | 113.72 | 4.000 | Yes | Yes | 2.00 |
| 1358 | 99.90 | 116.32 | 2.70 | 3.25 | 1.00 | 25.35 | 4.67 | 118.27 | 4.000 | Yes | Yes | 2.00 |
| 1359 | 99.95 | 101.78 | 2.79 | 3.87 | 1.00 | 22.01 | 5.75 | 126.55 | 4.000 | Yes | Yes | 2.00 |
| 1360 | 100.04 | 116.32 | 2.73 | 3.67 | 1.00 | 25.32 | 5.03 | 127.45 | 4.000 | Yes | Yes | 2.00 |
| 1361 | 100.14 | 159.30 | 2.55 | 2.82 | 1.00 | 35.14 | 3.33 | 116.89 | 4.000 | Yes | No | 2.00 |
| 1362 | 100.14 | 204.99 | 2.39 | 2.20 | 1.00 | 45.59 | 2.33 | 106.43 | 4.000 | Yes | No | 2.00 |
| 1363 | 100.15 | 235.79 | 2.32 | 2.02 | 1.00 | 52.64 | 2.00 | 105.52 | 4.000 | Yes | No | 2.00 |
| 1364 | 100.19 | 258.80 | 2.30 | 2.10 | 1.00 | 57.89 | 1.93 | 111.71 | 4.000 | Yes | No | 2.00 |
| 1365 | 100.21 | 298.07 | 2.26 | 2.14 | 1.00 | 66.86 | 1.78 | 119.29 | 4.000 | Yes | No | 2.00 |
| 1366 | 100.24 | 351.88 | 2.06 | 1.31 | 1.00 | 79.16 | 1.37 | 108.37 | 4.000 | Yes | No | 2.00 |
| 1367 | 100.28 | 410.56 | 1.80 | 0.59 | 1.00 | 92.54 | 1.15 | 106.62 | 4.000 | Yes | No | 2.00 |
| 1368 | 100.31 | 470.98 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1369 | 100.33 | 508.57 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1370 | 100.38 | 524.63 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1371 | 100.39 | 526.55 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1372 | 100.43 | 531.78 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1373 | 100.48 | 522.24 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1374 | 100.53 | 509.38 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1375 | 100.57 | 496.12 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1376 | 100.60 | 497.27 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |

**Abbreviations**

Depth: Depth from free surface, at which CPT was performed (ft)
$q_t$: Total cone resistance
$I_c$: Soil behavior type index
Fr: Normalized friction ratio (%)
n: Stress exponent
$Q_{tn}$: Normalized cone resistance
$K_c$: Cone resistance correction factor due to fines
$Q_{tn,cs}$: Normalized and adjusted cone resistance
$CRR_{7.5}$: Cyclic resistance ratio for $M_w$=7.5
FS: Factor of safety against soil liquefaction

**:: Liquefaction Potential Index calculation data ::**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.04 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.10 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 0.11 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.16 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 0.19 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.24 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 0.31 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.38 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 0.43 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.49 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 0.58 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.63 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 0.67 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.72 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 0.72 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.84 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 |
| 0.96 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 | 1.06 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 1.24 | 2.00 | 0.00 | 0.00 | 0.19 | 0.00 | 1.30 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 1.48 | 2.00 | 0.00 | 0.00 | 0.18 | 0.00 | 1.59 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 1.69 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 1.69 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 1.74 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 1.79 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 1.84 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 1.88 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 1.93 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 1.99 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 2.03 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 2.08 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 2.13 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 2.22 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 2.27 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 2.33 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 2.42 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 2.48 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 2.56 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 2.65 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 2.72 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 2.80 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 2.89 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 2.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 3.04 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 3.14 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 3.23 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 3.31 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 3.37 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 3.48 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 3.57 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 3.65 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 3.71 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 3.82 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 3.91 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 4.00 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 4.10 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 4.19 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 4.26 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 4.35 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 4.44 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 4.52 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 4.53 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 4.58 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 4.63 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 4.68 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 4.72 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 4.77 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 4.82 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 4.88 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 4.96 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 5.01 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 5.08 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 5.16 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 5.21 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 5.30 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 5.37 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 5.45 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 5.52 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 5.59 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 5.65 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 5.74 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 5.83 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 5.89 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 5.97 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 6.07 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 6.12 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 6.22 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 6.28 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 6.36 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 6.46 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 6.52 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 6.60 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 6.70 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 6.76 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 6.84 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6.94 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 7.03 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 7.13 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 7.19 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 7.32 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 7.42 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 7.49 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 7.57 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 7.66 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 7.76 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 7.77 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 7.78 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7.82 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 7.87 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 7.92 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 7.97 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 8.01 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 8.06 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 8.11 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 8.20 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 8.26 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 8.35 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 8.40 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 8.49 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 8.54 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 8.64 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 8.69 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 8.79 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 8.84 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 8.93 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 9.03 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 9.08 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 9.11 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 9.12 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 9.17 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 9.22 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 9.31 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 9.36 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 9.40 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 9.46 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 9.51 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 9.55 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 9.61 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 9.69 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 9.74 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 9.81 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 9.89 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 9.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 10.03 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 10.08 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 10.18 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 10.23 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 10.33 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 10.40 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 10.47 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 10.51 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 10.56 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 10.61 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 10.67 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 10.75 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 10.80 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 10.85 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 10.90 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 11.00 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 11.05 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 11.14 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 11.21 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 11.29 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 11.38 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 11.46 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 11.52 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 11.60 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 11.67 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 11.72 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 11.81 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 11.86 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 11.96 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 12.01 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 12.10 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 12.16 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 12.24 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 12.32 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 12.39 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 12.48 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 12.50 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 12.54 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 12.64 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 12.68 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 12.77 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 12.82 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 12.89 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 12.97 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 13.03 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 13.12 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 13.16 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 13.26 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 13.34 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 13.41 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 13.50 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 13.60 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 13.65 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 13.75 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 13.80 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 13.89 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 13.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 14.03 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 14.11 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 14.13 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 14.18 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 14.22 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 14.28 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 14.37 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 14.44 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 14.51 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 14.60 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 14.65 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 14.75 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 14.85 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 14.91 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 14.99 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 15.09 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 15.18 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 15.25 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 15.33 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 15.43 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 15.51 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 15.59 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 15.67 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 15.76 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 15.86 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 15.95 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 16.05 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 16.14 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 16.20 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 16.28 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 16.34 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 16.44 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 16.50 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 16.58 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 16.73 | 2.00 | 0.00 | 0.00 | 0.15 | 0.00 |
| 16.82 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 16.92 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 17.01 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 17.11 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 17.12 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 17.14 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 17.19 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 17.28 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 17.33 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 17.43 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 17.47 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 17.57 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 17.65 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 17.72 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 17.81 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 17.86 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 17.95 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 18.05 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 18.10 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 18.20 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 18.30 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 18.39 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 18.48 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 18.58 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 18.66 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 18.74 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 18.87 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 18.97 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 19.06 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 19.16 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 19.25 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 19.27 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 19.30 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 19.34 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 19.39 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 19.49 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 19.55 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 19.63 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 19.68 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 19.74 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 19.83 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 19.87 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 19.94 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 20.02 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 20.07 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 20.17 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 20.21 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 20.28 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 20.36 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 20.41 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 20.48 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 20.55 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20.60 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 20.70 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 20.74 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 20.79 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 20.89 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 20.96 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 21.04 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 21.13 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 21.22 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 21.29 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 21.35 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 21.37 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 21.42 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 21.47 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 21.48 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 21.52 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 21.57 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 21.62 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 21.66 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 21.71 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 21.76 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 21.81 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 21.85 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 21.91 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 21.95 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 22.00 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.05 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 22.10 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.15 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 22.19 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.24 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 22.29 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.34 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 22.39 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.43 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 22.48 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.55 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 22.62 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 22.63 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 22.72 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 22.77 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 22.83 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 22.91 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 22.96 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 23.02 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 23.10 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 23.16 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 23.20 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 23.26 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 23.35 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 23.39 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 23.48 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 23.54 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 23.63 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 23.69 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 23.78 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 23.87 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 23.88 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 23.93 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 24.02 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 24.04 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 24.05 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 24.15 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 24.20 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 24.30 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 24.40 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 24.46 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 24.54 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 24.64 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 24.73 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 24.78 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 24.88 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 24.94 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 25.02 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 25.12 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 25.17 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 25.27 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 25.36 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 25.43 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 25.50 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 25.60 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 25.64 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 25.67 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 25.71 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 25.79 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 25.93 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 26.03 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 26.13 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 26.24 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 26.37 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 |
| 26.47 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 26.60 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 |
| 26.71 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 26.85 | 2.00 | 0.00 | 0.00 | 0.15 | 0.00 |
| 26.95 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 27.04 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 27.09 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 27.19 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 27.23 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 27.33 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 27.40 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 27.47 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 27.57 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 27.66 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 27.77 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 27.86 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 27.96 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 28.06 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 28.15 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 28.25 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 28.34 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 28.44 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 28.54 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 28.62 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 28.71 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 28.77 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 28.86 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 28.91 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 28.97 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 29.04 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 29.10 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 29.15 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 29.25 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 29.34 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 29.38 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 29.48 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 29.55 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 29.63 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 29.72 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 29.82 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 29.88 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 29.96 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 30.06 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 30.13 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 30.18 | 0.57 | 0.00 | 0.00 | 0.04 | 0.03 | 30.28 | 0.58 | 0.00 | 0.00 | 0.10 | 0.07 |
| 30.37 | 0.60 | 0.00 | 0.00 | 0.09 | 0.06 | 30.47 | 0.63 | 0.00 | 0.00 | 0.10 | 0.06 |
| 30.57 | 0.65 | 0.00 | 0.00 | 0.10 | 0.06 | 30.66 | 0.67 | 0.00 | 0.00 | 0.10 | 0.05 |
| 30.74 | 0.69 | 0.00 | 0.00 | 0.08 | 0.04 | 30.82 | 0.71 | 0.00 | 0.00 | 0.08 | 0.04 |
| 30.90 | 0.73 | 0.00 | 0.00 | 0.08 | 0.04 | 31.01 | 0.76 | 0.00 | 0.00 | 0.11 | 0.04 |
| 31.10 | 0.80 | 0.00 | 0.00 | 0.08 | 0.03 | 31.19 | 0.86 | 0.00 | 0.00 | 0.09 | 0.02 |
| 31.28 | 0.92 | 0.00 | 0.00 | 0.09 | 0.01 | 31.35 | 0.97 | 0.00 | 0.00 | 0.06 | 0.00 |
| 31.43 | 1.02 | 0.00 | 0.00 | 0.09 | 0.00 | 31.53 | 1.06 | 0.00 | 0.00 | 0.09 | 0.00 |
| 31.60 | 0.96 | 0.00 | 0.00 | 0.07 | 0.00 | 31.67 | 0.88 | 0.00 | 0.00 | 0.08 | 0.01 |
| 31.77 | 0.82 | 0.00 | 0.00 | 0.10 | 0.03 | 31.84 | 0.84 | 0.00 | 0.00 | 0.07 | 0.02 |
| 31.91 | 0.87 | 0.00 | 0.00 | 0.07 | 0.01 | 31.98 | 0.89 | 0.00 | 0.00 | 0.07 | 0.01 |
| 31.98 | 0.92 | 0.00 | 0.00 | 0.01 | 0.00 | 32.04 | 0.94 | 0.00 | 0.00 | 0.05 | 0.00 |
| 32.12 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 32.16 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 32.27 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 32.33 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 32.41 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 32.50 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 32.58 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 32.66 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 32.74 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 32.84 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 32.90 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 32.98 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 33.08 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 33.14 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 33.22 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 33.32 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 33.37 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 33.47 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 33.56 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 33.63 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 33.71 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 33.81 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 33.90 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 33.95 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 34.04 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 34.14 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 34.17 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 34.20 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 34.26 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 34.35 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 34.43 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 34.49 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 34.59 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 34.69 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 34.73 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 34.83 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 34.90 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 34.98 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 35.07 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 35.16 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 35.26 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 35.33 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 35.40 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 35.50 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 35.57 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 35.65 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 35.71 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 35.79 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 35.85 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 35.94 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 35.99 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 36.08 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 36.17 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 36.24 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 36.33 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 36.42 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 36.52 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 36.61 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 36.70 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 36.78 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 36.85 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 36.87 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 36.91 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 36.97 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 37.06 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 37.12 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 37.20 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 37.27 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 37.35 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 37.44 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 37.49 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 37.59 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 37.64 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 37.70 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 37.78 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 37.83 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 37.92 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 37.97 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 38.07 | 1.52 | 0.00 | 0.00 | 0.09 | 0.00 | 38.14 | 1.59 | 0.00 | 0.00 | 0.07 | 0.00 |
| 38.22 | 1.67 | 0.00 | 0.00 | 0.08 | 0.00 | 38.31 | 1.79 | 0.00 | 0.00 | 0.09 | 0.00 |
| 38.41 | 1.96 | 0.00 | 0.00 | 0.09 | 0.00 | 38.52 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 38.64 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 38.74 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 38.80 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 38.89 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 38.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 39.03 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 39.13 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 39.23 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 39.35 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 | 39.42 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 39.51 | 1.93 | 0.00 | 0.00 | 0.09 | 0.00 | 39.60 | 1.73 | 0.00 | 0.00 | 0.09 | 0.00 |
| 39.70 | 1.58 | 0.00 | 0.00 | 0.10 | 0.00 | 39.78 | 1.45 | 0.00 | 0.00 | 0.07 | 0.00 |
| 39.90 | 1.34 | 0.00 | 0.00 | 0.12 | 0.00 | 39.99 | 1.24 | 0.00 | 0.00 | 0.09 | 0.00 |
| 40.09 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 40.18 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 40.23 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 40.33 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 40.43 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 40.52 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 40.61 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 40.69 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 40.80 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 40.87 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 40.95 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 40.97 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 41.01 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 41.07 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 41.15 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 41.26 | 0.74 | 0.00 | 0.00 | 0.11 | 0.03 |
| 41.35 | 0.76 | 0.00 | 0.00 | 0.09 | 0.02 | 41.47 | 0.78 | 0.00 | 0.00 | 0.12 | 0.03 |
| 41.59 | 0.79 | 0.00 | 0.00 | 0.12 | 0.03 | 41.69 | 0.80 | 0.00 | 0.00 | 0.10 | 0.02 |
| 41.78 | 0.83 | 0.00 | 0.00 | 0.09 | 0.02 | 41.88 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 41.98 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 42.08 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 42.16 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 42.24 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 42.31 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 42.45 | 0.80 | 0.00 | 0.00 | 0.14 | 0.03 |
| 42.55 | 0.80 | 0.00 | 0.00 | 0.09 | 0.02 | 42.60 | 0.80 | 0.00 | 0.00 | 0.05 | 0.01 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 42.70 | 0.82 | 0.00 | 0.00 | 0.10 | 0.02 | 42.81 | 0.85 | 0.00 | 0.00 | 0.11 | 0.02 |
| 42.89 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 42.98 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 43.08 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 43.17 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 43.27 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 43.37 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 43.50 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 43.61 | 0.59 | 0.00 | 0.00 | 0.10 | 0.04 |
| 43.74 | 0.60 | 0.00 | 0.00 | 0.13 | 0.06 | 43.79 | 0.63 | 0.00 | 0.00 | 0.05 | 0.02 |
| 43.86 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 43.94 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 44.00 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 44.08 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 44.17 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 44.27 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 44.42 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 44.52 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 44.61 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 44.71 | 0.67 | 0.00 | 0.00 | 0.09 | 0.03 |
| 44.85 | 0.67 | 0.00 | 0.00 | 0.14 | 0.05 | 44.95 | 0.71 | 0.00 | 0.00 | 0.10 | 0.03 |
| 45.09 | 0.76 | 0.00 | 0.00 | 0.14 | 0.03 | 45.19 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 45.33 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 45.42 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 45.57 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 45.68 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 45.81 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 45.92 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 46.05 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 46.16 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 46.17 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 46.23 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 46.29 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 46.34 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 46.42 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 46.48 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 46.52 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 46.60 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 46.67 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 46.74 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 46.82 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 46.88 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 46.96 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 47.06 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 47.15 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 47.24 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 47.35 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 47.49 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 47.58 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 47.73 | 2.00 | 0.00 | 0.00 | 0.15 | 0.00 |
| 47.83 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 47.87 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 47.89 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 47.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 48.02 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 48.07 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 48.12 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 48.18 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 48.26 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 48.31 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 48.38 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 48.46 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 48.52 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 48.60 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 48.68 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 48.74 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 48.82 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 48.89 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 48.99 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 49.05 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 49.12 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 49.18 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 49.27 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 49.32 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 49.42 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 49.48 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 49.56 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 49.66 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 49.76 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 49.85 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 49.99 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 50.09 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 50.21 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 | 50.24 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 50.29 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 50.38 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 50.47 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 50.52 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 50.62 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 50.66 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 50.76 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 50.83 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 50.91 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 51.00 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 51.06 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 51.15 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 51.24 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 51.31 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 51.39 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 51.48 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 51.58 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 51.68 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 51.77 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 51.90 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 |
| 52.01 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 52.11 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 52.26 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 52.30 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 52.33 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 52.35 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 52.40 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 52.45 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 52.50 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 52.55 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 52.60 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 52.65 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 52.71 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 52.77 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 52.82 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 52.88 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 52.93 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 52.98 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 53.03 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 53.08 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 53.12 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 53.17 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 53.23 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 53.28 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 53.37 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 53.42 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 53.46 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 53.53 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 53.61 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 53.62 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 53.65 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 53.67 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 53.70 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 53.74 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 53.76 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 53.80 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 53.84 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 53.90 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 53.91 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 53.95 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 53.96 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 53.98 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 53.99 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 54.01 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 54.02 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 54.03 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 54.04 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 54.05 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 54.09 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 54.10 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 54.13 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 54.14 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 54.19 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 54.19 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 54.24 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 54.29 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 54.33 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 54.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 54.39 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 54.43 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 54.48 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 54.52 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 54.58 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 54.62 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 54.65 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 54.67 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 54.71 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 54.77 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 54.81 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 54.85 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 54.86 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 54.87 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 54.91 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 54.96 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 55.00 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 55.01 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 55.05 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 55.10 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 55.12 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 55.13 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 55.14 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 55.19 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 55.20 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 55.25 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 55.29 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 55.33 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 55.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 55.48 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 55.57 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 55.63 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 55.72 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 55.80 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 55.86 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 55.97 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 56.01 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 56.06 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.11 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 56.15 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 56.20 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 56.27 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 56.27 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 56.30 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 56.33 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 56.35 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 56.40 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 56.41 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 56.44 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 56.49 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.54 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 56.58 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.59 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 56.64 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.69 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 56.73 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 56.78 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 56.83 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.88 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 56.89 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 56.95 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 57.01 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 57.07 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 57.11 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 57.17 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 57.26 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 57.31 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 57.37 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 57.45 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 57.51 | 1.75 | 0.00 | 0.00 | 0.06 | 0.00 |
| 57.53 | 1.50 | 0.00 | 0.00 | 0.02 | 0.00 | 57.59 | 1.35 | 0.00 | 0.00 | 0.05 | 0.00 |
| 57.63 | 1.33 | 0.00 | 0.00 | 0.05 | 0.00 | 57.68 | 1.28 | 0.00 | 0.00 | 0.05 | 0.00 |
| 57.73 | 1.24 | 0.00 | 0.00 | 0.05 | 0.00 | 57.78 | 1.19 | 0.00 | 0.00 | 0.05 | 0.00 |
| 57.86 | 1.08 | 0.00 | 0.00 | 0.08 | 0.00 | 57.92 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 57.98 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 58.06 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 58.12 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 58.21 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 58.26 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 58.35 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 58.41 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 58.50 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 58.56 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 58.64 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 58.73 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 58.80 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 58.84 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 58.85 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 58.93 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 58.98 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 59.02 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 59.12 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 59.17 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 59.27 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 59.31 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 59.41 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 59.46 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 59.55 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 59.65 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 59.70 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 59.80 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 59.89 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 59.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 60.01 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 60.02 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 60.08 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 60.12 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 60.17 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 60.27 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 60.31 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 60.37 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 60.46 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 60.51 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 60.61 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 60.65 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 60.75 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 60.81 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 60.89 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 60.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 61.03 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 61.09 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 61.19 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 61.24 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 61.33 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 61.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 61.47 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 61.53 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 61.62 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 61.70 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 61.77 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 61.86 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 61.95 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 61.97 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 62.01 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 62.10 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 62.24 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 62.34 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 62.49 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 62.54 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 62.66 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 |
| 62.74 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 62.87 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 |
| 62.92 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 63.03 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 63.15 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 | 63.26 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 63.37 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 63.45 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 63.54 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 63.61 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 63.69 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 63.79 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 63.89 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 63.98 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 64.07 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 64.15 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 64.23 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 64.26 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 64.29 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 64.33 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 64.43 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 64.47 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 64.53 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 64.62 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 64.72 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 64.78 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 64.86 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 64.96 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 65.06 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 65.11 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 65.21 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 65.31 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 65.40 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 65.50 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 65.58 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 65.68 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 65.78 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 65.84 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 65.86 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 65.87 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 65.98 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 66.10 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 |
| 66.21 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 66.34 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 |
| 66.48 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 66.62 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 66.68 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 66.87 | 2.00 | 0.00 | 0.00 | 0.19 | 0.00 |
| 66.96 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 67.11 | 2.00 | 0.00 | 0.00 | 0.15 | 0.00 |
| 67.21 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 67.35 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 67.45 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 67.59 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 67.68 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 67.83 | 2.00 | 0.00 | 0.00 | 0.15 | 0.00 |
| 67.92 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 68.02 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 68.07 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 68.16 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 68.26 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 68.35 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 68.45 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 68.55 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 68.65 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 68.78 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 |
| 68.78 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 68.79 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 68.83 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 68.93 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 68.98 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 69.04 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 69.12 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 69.22 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 69.28 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 69.36 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 69.45 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 69.60 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 69.70 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 69.80 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 69.89 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 69.98 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 70.08 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 70.18 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 70.32 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 70.42 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 70.54 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 | 70.66 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 |
| 70.75 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 70.80 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 70.89 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 70.99 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 71.08 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 71.17 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 71.23 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 71.33 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 71.42 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 71.52 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 71.58 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 71.67 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 71.81 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 71.82 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 71.86 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 71.91 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 71.97 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 72.05 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 72.10 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 72.20 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 72.25 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 72.34 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 72.44 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 72.53 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 72.63 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 72.69 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 72.82 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 72.92 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 73.06 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 73.16 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 73.30 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 73.35 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 73.38 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 73.47 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 73.53 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 73.62 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 73.71 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 73.77 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 73.86 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 73.96 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 74.06 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 74.13 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 74.24 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 74.34 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 74.44 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 74.58 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 74.68 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 74.80 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 |
| 74.92 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 | 75.07 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 75.08 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 75.11 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 75.16 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 75.25 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 75.32 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 75.40 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 75.50 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 75.59 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 75.69 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 75.78 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 75.88 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 75.96 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 76.05 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 76.14 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 76.26 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 | 76.36 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 76.41 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 76.51 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 76.65 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 76.72 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 76.79 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 76.89 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 76.98 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 77.08 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 77.18 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 77.28 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 77.37 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 77.42 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 77.42 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 77.44 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 77.48 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 77.52 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 77.54 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 77.57 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 77.62 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 77.65 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 77.67 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 77.71 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 77.71 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 77.76 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 77.81 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 77.90 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 77.95 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 78.01 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 78.10 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 78.16 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 78.24 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 78.29 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 78.39 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 78.47 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 78.53 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 78.62 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 78.68 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 78.69 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 78.78 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 78.81 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 78.92 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 79.03 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 79.16 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 79.26 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 79.35 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 79.45 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 79.54 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 79.64 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 79.74 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 79.88 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 79.98 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 80.12 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 80.22 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 80.36 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 80.46 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 80.60 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 80.70 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 80.83 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 |
| 80.94 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 81.01 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 81.04 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 81.09 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 81.13 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 81.18 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 81.23 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 81.28 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 81.33 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 81.37 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 81.42 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 81.47 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 81.52 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 81.56 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 81.61 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 81.64 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 81.70 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 81.75 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 81.79 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 81.82 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 81.86 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 81.91 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 81.95 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 82.00 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 82.09 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 82.15 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 82.19 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 82.26 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 82.34 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 82.39 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 82.48 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 82.58 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 82.62 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 82.70 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 82.77 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 82.87 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 82.96 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 83.06 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 83.16 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 83.25 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 83.34 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 83.44 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 83.54 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 83.64 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 83.73 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 83.83 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 83.85 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 83.89 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 83.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 84.04 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 84.09 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 84.13 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 84.18 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 84.25 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 84.33 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 84.37 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 84.46 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 84.52 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 84.57 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 84.67 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 84.71 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 84.81 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 84.86 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 84.91 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 85.00 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 85.05 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 85.15 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 85.19 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 85.29 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 85.35 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 85.42 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 85.48 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 85.55 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 85.63 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 85.68 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 85.77 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 85.82 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 85.89 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 85.96 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 86.03 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 86.11 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 86.16 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 86.25 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 86.36 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 86.50 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 86.51 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 86.52 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 86.57 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 86.65 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 86.71 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 86.80 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 86.90 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 86.99 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 87.04 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 87.14 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 87.19 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 87.28 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 87.38 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 87.43 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 87.52 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 87.61 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 87.66 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 87.76 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 87.84 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 87.91 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 88.00 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 88.11 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 88.19 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 88.25 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 88.34 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 88.44 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 88.54 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 88.64 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 88.72 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 88.82 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 88.91 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 89.01 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 89.10 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 89.19 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 89.30 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 89.39 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 89.49 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 89.59 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 89.69 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 89.73 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 89.78 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 89.83 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 89.88 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 89.93 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 90.00 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 90.07 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 90.12 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 90.22 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 90.27 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 90.36 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 90.46 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 90.50 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 90.61 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 90.66 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 90.75 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 90.84 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 90.89 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 90.99 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 91.04 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 91.14 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 91.22 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 91.28 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 91.37 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 91.47 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 91.61 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 91.71 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 91.81 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 91.87 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 92.00 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 |
| 92.10 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 92.20 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 92.33 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 92.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 92.43 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 92.48 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 92.56 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 92.63 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 92.67 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 92.72 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 92.77 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 92.86 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 92.92 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 92.97 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 93.05 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 93.10 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 93.16 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 93.25 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 93.35 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 93.40 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 93.49 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 93.56 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 93.64 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 93.73 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 93.83 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 93.88 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 93.97 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 94.07 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 94.17 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 94.26 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 94.36 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 94.45 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 94.55 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 94.64 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 94.72 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 94.74 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 94.77 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 94.85 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 94.90 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 94.95 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 95.01 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 95.09 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 95.14 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 95.23 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 95.29 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 95.38 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 95.43 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 95.52 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 95.57 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 95.67 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 95.77 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 95.86 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 95.95 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 96.03 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 96.11 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 96.20 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 96.30 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 96.39 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 96.50 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 96.59 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 96.69 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 96.78 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 96.87 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 96.98 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 97.02 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 97.06 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 97.12 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 97.16 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 97.21 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 97.27 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 97.33 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 97.40 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 97.45 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 97.50 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 97.58 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 97.65 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 97.69 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 97.74 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 97.81 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 97.88 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 97.93 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 98.03 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 98.15 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 | 98.21 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 98.32 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 98.42 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 98.47 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 98.57 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 98.70 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 98.78 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 98.85 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 98.86 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 98.92 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 98.98 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 99.03 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 99.11 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 99.18 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 99.23 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 99.32 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 99.37 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 99.45 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 99.56 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 99.64 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 99.71 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 99.75 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 99.90 | 2.00 | 0.00 | 0.00 | 0.15 | 0.00 |
| 99.95 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 100.04 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 100.14 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 100.14 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.15 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 100.19 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 100.21 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 100.24 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 100.28 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 100.31 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 100.33 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 100.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 100.39 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 100.43 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 100.48 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 100.53 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 100.57 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 100.60 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |

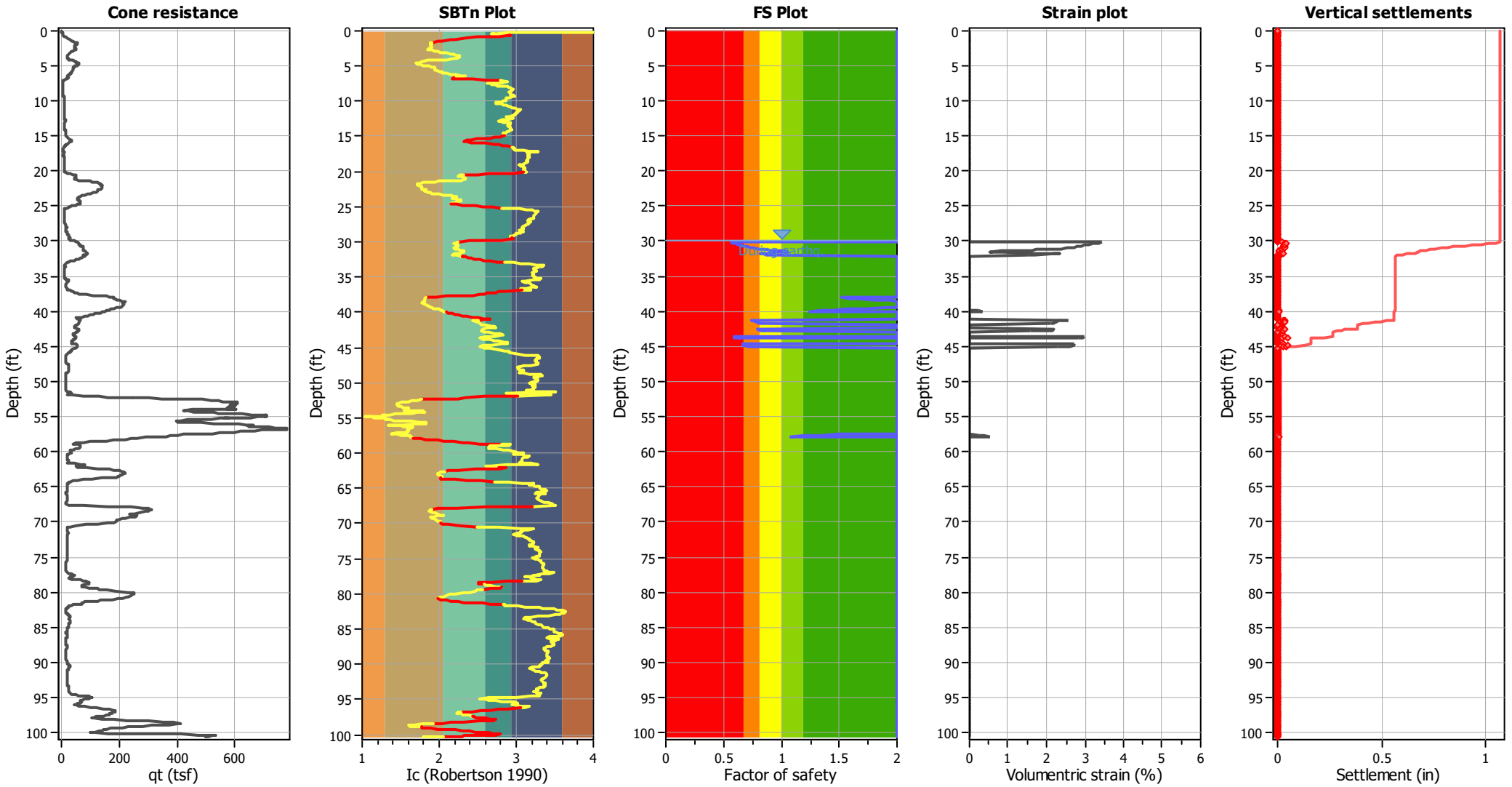
**Overall liquefaction potential: 1.15**

LPI = 0.00 - Liquefaction risk very low
LPI between 0.00 and 5.00 - Liquefaction risk low
LPI between 5.00 and 15.00 - Liquefaction risk high
LPI > 15.00 - Liquefaction risk very high

**Abbreviations**

FS: Calculated factor of safety for test point
$F_L$: 1 - FS
$w_z$: Function value of the extend of soil liquefaction according to depth
$d_z$: Layer thickness (ft)
LPI: Liquefaction potential index value for test point

## Estimation of post-earthquake settlements




**Abbreviations**

| | |
|---|---|
| $q_t$: | Total cone resistance (cone resistance $q_c$ corrected for pore water effects) |
| $I_c$: | Soil Behaviour Type Index |
| FS: | Calculated Factor of Safety against liquefaction |
| Volumentric strain: | Post-liquefaction volumentric strain |

**:: Post-earthquake settlement due to soil liquefaction ::**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 30.06 | 59.16 | 2.00 | 0.00 | 1.00 | 0.00 | 30.13 | 60.99 | 2.00 | 0.00 | 1.00 | 0.00 |
| 30.18 | 62.30 | 0.57 | 3.44 | 1.00 | 0.02 | 30.28 | 64.44 | 0.58 | 3.35 | 1.00 | 0.04 |
| 30.37 | 67.53 | 0.60 | 3.22 | 1.00 | 0.04 | 30.47 | 71.05 | 0.63 | 3.09 | 1.00 | 0.04 |
| 30.57 | 73.87 | 0.65 | 3.00 | 1.00 | 0.04 | 30.66 | 76.12 | 0.67 | 2.92 | 1.00 | 0.03 |
| 30.74 | 78.31 | 0.69 | 2.86 | 1.00 | 0.03 | 30.82 | 80.52 | 0.71 | 2.79 | 1.00 | 0.03 |
| 30.90 | 82.93 | 0.73 | 2.72 | 1.00 | 0.03 | 31.01 | 85.67 | 0.76 | 2.55 | 1.00 | 0.03 |
| 31.10 | 89.47 | 0.80 | 2.39 | 1.00 | 0.02 | 31.19 | 93.96 | 0.86 | 1.72 | 1.00 | 0.02 |
| 31.28 | 98.21 | 0.92 | 1.61 | 1.00 | 0.02 | 31.35 | 101.82 | 0.97 | 0.87 | 1.00 | 0.01 |
| 31.43 | 104.59 | 1.02 | 0.85 | 1.00 | 0.01 | 31.53 | 107.28 | 1.06 | 0.53 | 1.00 | 0.01 |
| 31.60 | 101.10 | 0.96 | 0.87 | 1.00 | 0.01 | 31.67 | 95.74 | 0.88 | 1.67 | 1.00 | 0.02 |
| 31.77 | 91.18 | 0.82 | 2.33 | 1.00 | 0.03 | 31.84 | 93.40 | 0.84 | 2.24 | 1.00 | 0.02 |
| 31.91 | 95.19 | 0.87 | 1.69 | 1.00 | 0.01 | 31.98 | 97.23 | 0.89 | 1.63 | 1.00 | 0.01 |
| 31.98 | 99.23 | 0.92 | 1.59 | 1.00 | 0.00 | 32.04 | 100.65 | 0.94 | 1.55 | 1.00 | 0.01 |
| 32.12 | 102.19 | 2.00 | 0.00 | 1.00 | 0.00 | 32.16 | 105.63 | 2.00 | 0.00 | 1.00 | 0.00 |
| 32.27 | 108.77 | 2.00 | 0.00 | 1.00 | 0.00 | 32.33 | 111.51 | 2.00 | 0.00 | 1.00 | 0.00 |
| 32.41 | 112.40 | 2.00 | 0.00 | 1.00 | 0.00 | 32.50 | 111.66 | 2.00 | 0.00 | 1.00 | 0.00 |
| 32.58 | 110.12 | 2.00 | 0.00 | 1.00 | 0.00 | 32.66 | 108.68 | 2.00 | 0.00 | 1.00 | 0.00 |
| 32.74 | 107.79 | 2.00 | 0.00 | 1.00 | 0.00 | 32.84 | 107.96 | 2.00 | 0.00 | 1.00 | 0.00 |
| 32.90 | 107.62 | 2.00 | 0.00 | 1.00 | 0.00 | 32.98 | 104.08 | 2.00 | 0.00 | 1.00 | 0.00 |
| 33.08 | 101.84 | 2.00 | 0.00 | 1.00 | 0.00 | 33.14 | 99.50 | 2.00 | 0.00 | 1.00 | 0.00 |
| 33.22 | 96.06 | 2.00 | 0.00 | 1.00 | 0.00 | 33.32 | 91.43 | 2.00 | 0.00 | 1.00 | 0.00 |
| 33.37 | 85.28 | 2.00 | 0.00 | 1.00 | 0.00 | 33.47 | 81.70 | 2.00 | 0.00 | 1.00 | 0.00 |
| 33.56 | 79.85 | 2.00 | 0.00 | 1.00 | 0.00 | 33.63 | 80.15 | 2.00 | 0.00 | 1.00 | 0.00 |
| 33.71 | 78.37 | 2.00 | 0.00 | 1.00 | 0.00 | 33.81 | 72.19 | 2.00 | 0.00 | 1.00 | 0.00 |
| 33.90 | 65.65 | 2.00 | 0.00 | 1.00 | 0.00 | 33.95 | 60.28 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.04 | 59.84 | 2.00 | 0.00 | 1.00 | 0.00 | 34.14 | 59.54 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.17 | 59.63 | 2.00 | 0.00 | 1.00 | 0.00 | 34.20 | 59.92 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.26 | 60.14 | 2.00 | 0.00 | 1.00 | 0.00 | 34.35 | 59.91 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.43 | 59.45 | 2.00 | 0.00 | 1.00 | 0.00 | 34.49 | 58.59 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.59 | 57.25 | 2.00 | 0.00 | 1.00 | 0.00 | 34.69 | 55.91 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.73 | 54.88 | 2.00 | 0.00 | 1.00 | 0.00 | 34.83 | 54.34 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.90 | 54.48 | 2.00 | 0.00 | 1.00 | 0.00 | 34.98 | 55.47 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.07 | 58.28 | 2.00 | 0.00 | 1.00 | 0.00 | 35.16 | 64.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.26 | 76.48 | 2.00 | 0.00 | 1.00 | 0.00 | 35.33 | 89.71 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.40 | 101.03 | 2.00 | 0.00 | 1.00 | 0.00 | 35.50 | 106.70 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.57 | 109.72 | 2.00 | 0.00 | 1.00 | 0.00 | 35.65 | 112.36 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.71 | 115.22 | 2.00 | 0.00 | 1.00 | 0.00 | 35.79 | 116.27 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.85 | 113.90 | 2.00 | 0.00 | 1.00 | 0.00 | 35.94 | 109.71 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.99 | 103.66 | 2.00 | 0.00 | 1.00 | 0.00 | 36.08 | 95.94 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.17 | 88.35 | 2.00 | 0.00 | 1.00 | 0.00 | 36.24 | 82.76 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.33 | 81.11 | 2.00 | 0.00 | 1.00 | 0.00 | 36.42 | 82.08 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.52 | 77.16 | 2.00 | 0.00 | 1.00 | 0.00 | 36.61 | 74.88 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.70 | 76.79 | 2.00 | 0.00 | 1.00 | 0.00 | 36.78 | 88.43 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.85 | 99.18 | 2.00 | 0.00 | 1.00 | 0.00 | 36.87 | 103.88 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.91 | 105.17 | 2.00 | 0.00 | 1.00 | 0.00 | 36.97 | 104.77 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.06 | 105.20 | 2.00 | 0.00 | 1.00 | 0.00 | 37.12 | 107.91 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.20 | 112.33 | 2.00 | 0.00 | 1.00 | 0.00 | 37.27 | 114.30 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.35 | 112.42 | 2.00 | 0.00 | 1.00 | 0.00 | 37.44 | 108.21 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 37.49 | 102.76 | 2.00 | 0.00 | 1.00 | 0.00 | 37.59 | 95.81 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.64 | 90.11 | 2.00 | 0.00 | 1.00 | 0.00 | 37.70 | 94.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.78 | 108.37 | 2.00 | 0.00 | 1.00 | 0.00 | 37.83 | 120.19 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.92 | 126.68 | 2.00 | 0.00 | 1.00 | 0.00 | 37.97 | 130.53 | 2.00 | 0.00 | 1.00 | 0.00 |
| 38.07 | 133.13 | 1.52 | 0.00 | 1.00 | 0.00 | 38.14 | 135.64 | 1.59 | 0.00 | 1.00 | 0.00 |
| 38.22 | 138.68 | 1.67 | 0.00 | 1.00 | 0.00 | 38.31 | 143.23 | 1.79 | 0.00 | 1.00 | 0.00 |
| 38.41 | 148.66 | 1.96 | 0.00 | 1.00 | 0.00 | 38.52 | 154.32 | 2.00 | 0.00 | 1.00 | 0.00 |
| 38.64 | 157.41 | 2.00 | 0.00 | 1.00 | 0.00 | 38.74 | 158.10 | 2.00 | 0.00 | 1.00 | 0.00 |
| 38.80 | 157.57 | 2.00 | 0.00 | 1.00 | 0.00 | 38.89 | 156.57 | 2.00 | 0.00 | 1.00 | 0.00 |
| 38.94 | 158.84 | 2.00 | 0.00 | 1.00 | 0.00 | 39.03 | 159.69 | 2.00 | 0.00 | 1.00 | 0.00 |
| 39.13 | 160.46 | 2.00 | 0.00 | 1.00 | 0.00 | 39.23 | 160.12 | 2.00 | 0.00 | 1.00 | 0.00 |
| 39.35 | 158.27 | 2.00 | 0.00 | 1.00 | 0.00 | 39.42 | 154.08 | 2.00 | 0.00 | 1.00 | 0.00 |
| 39.51 | 148.22 | 1.93 | 0.00 | 1.00 | 0.00 | 39.60 | 141.37 | 1.73 | 0.00 | 1.00 | 0.00 |
| 39.70 | 135.85 | 1.58 | 0.00 | 1.00 | 0.00 | 39.78 | 130.75 | 1.45 | 0.00 | 1.00 | 0.00 |
| 39.90 | 126.28 | 1.34 | 0.24 | 1.00 | 0.00 | 39.99 | 121.65 | 1.24 | 0.35 | 1.00 | 0.00 |
| 40.09 | 117.75 | 2.00 | 0.00 | 1.00 | 0.00 | 40.18 | 114.33 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.23 | 111.30 | 2.00 | 0.00 | 1.00 | 0.00 | 40.33 | 108.90 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.43 | 107.17 | 2.00 | 0.00 | 1.00 | 0.00 | 40.52 | 107.68 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.61 | 106.53 | 2.00 | 0.00 | 1.00 | 0.00 | 40.69 | 106.96 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.80 | 106.21 | 2.00 | 0.00 | 1.00 | 0.00 | 40.87 | 107.20 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.95 | 107.50 | 2.00 | 0.00 | 1.00 | 0.00 | 40.97 | 105.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 41.01 | 101.77 | 2.00 | 0.00 | 1.00 | 0.00 | 41.07 | 94.92 | 2.00 | 0.00 | 1.00 | 0.00 |
| 41.15 | 90.47 | 2.00 | 0.00 | 1.00 | 0.00 | 41.26 | 89.74 | 0.74 | 2.55 | 1.00 | 0.03 |
| 41.35 | 91.40 | 0.76 | 2.32 | 1.00 | 0.02 | 41.47 | 93.27 | 0.78 | 2.25 | 1.00 | 0.03 |
| 41.59 | 94.19 | 0.79 | 2.22 | 1.00 | 0.03 | 41.69 | 95.29 | 0.80 | 2.18 | 1.00 | 0.03 |
| 41.78 | 97.63 | 0.83 | 2.10 | 1.00 | 0.02 | 41.88 | 100.94 | 2.00 | 0.00 | 1.00 | 0.00 |
| 41.98 | 103.21 | 2.00 | 0.00 | 1.00 | 0.00 | 42.08 | 103.54 | 2.00 | 0.00 | 1.00 | 0.00 |
| 42.16 | 102.01 | 2.00 | 0.00 | 1.00 | 0.00 | 42.24 | 99.69 | 2.00 | 0.00 | 1.00 | 0.00 |
| 42.31 | 97.23 | 2.00 | 0.00 | 1.00 | 0.00 | 42.45 | 95.61 | 0.80 | 2.17 | 1.00 | 0.04 |
| 42.55 | 94.91 | 0.80 | 2.19 | 1.00 | 0.02 | 42.60 | 95.14 | 0.80 | 2.19 | 1.00 | 0.01 |
| 42.70 | 96.60 | 0.82 | 2.14 | 1.00 | 0.03 | 42.81 | 99.43 | 0.85 | 1.58 | 1.00 | 0.02 |
| 42.89 | 103.15 | 2.00 | 0.00 | 1.00 | 0.00 | 42.98 | 106.61 | 2.00 | 0.00 | 1.00 | 0.00 |
| 43.08 | 108.99 | 2.00 | 0.00 | 1.00 | 0.00 | 43.17 | 109.35 | 2.00 | 0.00 | 1.00 | 0.00 |
| 43.27 | 107.03 | 2.00 | 0.00 | 1.00 | 0.00 | 43.37 | 95.48 | 2.00 | 0.00 | 1.00 | 0.00 |
| 43.50 | 83.44 | 2.00 | 0.00 | 1.00 | 0.00 | 43.61 | 73.95 | 0.59 | 2.99 | 1.00 | 0.04 |
| 43.74 | 75.29 | 0.60 | 2.95 | 1.00 | 0.05 | 43.79 | 79.06 | 0.63 | 2.83 | 1.00 | 0.02 |
| 43.86 | 84.59 | 2.00 | 0.00 | 1.00 | 0.00 | 43.94 | 91.16 | 2.00 | 0.00 | 1.00 | 0.00 |
| 44.00 | 98.08 | 2.00 | 0.00 | 1.00 | 0.00 | 44.08 | 103.37 | 2.00 | 0.00 | 1.00 | 0.00 |
| 44.17 | 106.26 | 2.00 | 0.00 | 1.00 | 0.00 | 44.27 | 105.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 44.42 | 100.72 | 2.00 | 0.00 | 1.00 | 0.00 | 44.52 | 95.03 | 2.00 | 0.00 | 1.00 | 0.00 |
| 44.61 | 87.72 | 2.00 | 0.00 | 1.00 | 0.00 | 44.71 | 83.46 | 0.67 | 2.71 | 1.00 | 0.03 |
| 44.85 | 83.87 | 0.67 | 2.70 | 1.00 | 0.05 | 44.95 | 88.11 | 0.71 | 2.59 | 1.00 | 0.03 |
| 45.09 | 92.06 | 0.76 | 2.29 | 1.00 | 0.04 | 45.19 | 95.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 45.33 | 98.48 | 2.00 | 0.00 | 1.00 | 0.00 | 45.42 | 100.02 | 2.00 | 0.00 | 1.00 | 0.00 |
| 45.57 | 98.64 | 2.00 | 0.00 | 1.00 | 0.00 | 45.68 | 94.66 | 2.00 | 0.00 | 1.00 | 0.00 |
| 45.81 | 87.72 | 2.00 | 0.00 | 1.00 | 0.00 | 45.92 | 82.93 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.05 | 82.51 | 2.00 | 0.00 | 1.00 | 0.00 | 46.16 | 86.12 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.17 | 85.57 | 2.00 | 0.00 | 1.00 | 0.00 | 46.23 | 84.09 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 46.29 | 82.02 | 2.00 | 0.00 | 1.00 | 0.00 | 46.34 | 78.81 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.42 | 74.90 | 2.00 | 0.00 | 1.00 | 0.00 | 46.48 | 70.80 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.52 | 67.86 | 2.00 | 0.00 | 1.00 | 0.00 | 46.60 | 65.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.67 | 64.21 | 2.00 | 0.00 | 1.00 | 0.00 | 46.74 | 63.02 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.82 | 61.88 | 2.00 | 0.00 | 1.00 | 0.00 | 46.88 | 61.07 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.96 | 60.61 | 2.00 | 0.00 | 1.00 | 0.00 | 47.06 | 60.52 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.15 | 61.03 | 2.00 | 0.00 | 1.00 | 0.00 | 47.24 | 65.10 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.35 | 75.39 | 2.00 | 0.00 | 1.00 | 0.00 | 47.49 | 80.67 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.58 | 82.65 | 2.00 | 0.00 | 1.00 | 0.00 | 47.73 | 80.95 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.83 | 81.84 | 2.00 | 0.00 | 1.00 | 0.00 | 47.87 | 83.19 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.89 | 82.12 | 2.00 | 0.00 | 1.00 | 0.00 | 47.94 | 81.59 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.02 | 80.90 | 2.00 | 0.00 | 1.00 | 0.00 | 48.07 | 81.07 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.12 | 82.45 | 2.00 | 0.00 | 1.00 | 0.00 | 48.18 | 84.09 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.26 | 85.42 | 2.00 | 0.00 | 1.00 | 0.00 | 48.31 | 84.77 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.38 | 82.58 | 2.00 | 0.00 | 1.00 | 0.00 | 48.46 | 79.31 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.52 | 75.99 | 2.00 | 0.00 | 1.00 | 0.00 | 48.60 | 72.40 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.68 | 69.64 | 2.00 | 0.00 | 1.00 | 0.00 | 48.74 | 67.76 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.82 | 67.24 | 2.00 | 0.00 | 1.00 | 0.00 | 48.89 | 66.41 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.99 | 64.98 | 2.00 | 0.00 | 1.00 | 0.00 | 49.05 | 62.48 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.12 | 59.74 | 2.00 | 0.00 | 1.00 | 0.00 | 49.18 | 57.20 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.27 | 55.71 | 2.00 | 0.00 | 1.00 | 0.00 | 49.32 | 54.42 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.42 | 53.88 | 2.00 | 0.00 | 1.00 | 0.00 | 49.48 | 53.63 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.56 | 54.09 | 2.00 | 0.00 | 1.00 | 0.00 | 49.66 | 55.25 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.76 | 56.33 | 2.00 | 0.00 | 1.00 | 0.00 | 49.85 | 54.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.99 | 51.28 | 2.00 | 0.00 | 1.00 | 0.00 | 50.09 | 49.07 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.21 | 50.39 | 2.00 | 0.00 | 1.00 | 0.00 | 50.24 | 50.47 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.29 | 49.66 | 2.00 | 0.00 | 1.00 | 0.00 | 50.38 | 48.82 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.47 | 48.36 | 2.00 | 0.00 | 1.00 | 0.00 | 50.52 | 48.61 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.62 | 49.09 | 2.00 | 0.00 | 1.00 | 0.00 | 50.66 | 49.58 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.76 | 50.11 | 2.00 | 0.00 | 1.00 | 0.00 | 50.83 | 51.29 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.91 | 53.36 | 2.00 | 0.00 | 1.00 | 0.00 | 51.00 | 55.29 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.06 | 56.99 | 2.00 | 0.00 | 1.00 | 0.00 | 51.15 | 61.08 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.24 | 67.57 | 2.00 | 0.00 | 1.00 | 0.00 | 51.31 | 75.27 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.39 | 80.15 | 2.00 | 0.00 | 1.00 | 0.00 | 51.48 | 82.64 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.58 | 87.30 | 2.00 | 0.00 | 1.00 | 0.00 | 51.68 | 91.85 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.77 | 100.06 | 2.00 | 0.00 | 1.00 | 0.00 | 51.90 | 106.47 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.01 | 110.20 | 2.00 | 0.00 | 1.00 | 0.00 | 52.11 | 121.05 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.26 | 131.90 | 2.00 | 0.00 | 1.00 | 0.00 | 52.30 | 146.55 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.33 | 162.63 | 2.00 | 0.00 | 1.00 | 0.00 | 52.35 | 192.22 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.40 | 209.95 | 2.00 | 0.00 | 1.00 | 0.00 | 52.45 | 216.58 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.50 | 229.89 | 2.00 | 0.00 | 1.00 | 0.00 | 52.55 | 248.98 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.60 | 273.15 | 2.00 | 0.00 | 1.00 | 0.00 | 52.65 | 289.64 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.71 | 297.95 | 2.00 | 0.00 | 1.00 | 0.00 | 52.77 | 303.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.82 | 312.99 | 2.00 | 0.00 | 1.00 | 0.00 | 52.88 | 323.84 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.93 | 331.46 | 2.00 | 0.00 | 1.00 | 0.00 | 52.98 | 338.95 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.03 | 340.39 | 2.00 | 0.00 | 1.00 | 0.00 | 53.08 | 340.01 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.12 | 335.78 | 2.00 | 0.00 | 1.00 | 0.00 | 53.17 | 333.99 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.23 | 335.19 | 2.00 | 0.00 | 1.00 | 0.00 | 53.28 | 332.45 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 53.37 | 327.80 | 2.00 | 0.00 | 1.00 | 0.00 | 53.42 | 325.17 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.46 | 326.50 | 2.00 | 0.00 | 1.00 | 0.00 | 53.53 | 333.09 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.61 | 331.84 | 2.00 | 0.00 | 1.00 | 0.00 | 53.62 | 323.39 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.65 | 318.67 | 2.00 | 0.00 | 1.00 | 0.00 | 53.67 | 317.12 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.70 | 323.95 | 2.00 | 0.00 | 1.00 | 0.00 | 53.74 | 323.26 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.76 | 323.74 | 2.00 | 0.00 | 1.00 | 0.00 | 53.80 | 322.06 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.84 | 320.07 | 2.00 | 0.00 | 1.00 | 0.00 | 53.90 | 320.12 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.91 | 315.61 | 2.00 | 0.00 | 1.00 | 0.00 | 53.95 | 317.38 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.96 | 320.83 | 2.00 | 0.00 | 1.00 | 0.00 | 53.98 | 332.48 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.99 | 333.50 | 2.00 | 0.00 | 1.00 | 0.00 | 54.01 | 327.46 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.02 | 320.31 | 2.00 | 0.00 | 1.00 | 0.00 | 54.03 | 305.74 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.04 | 276.21 | 2.00 | 0.00 | 1.00 | 0.00 | 54.05 | 260.14 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.09 | 254.46 | 2.00 | 0.00 | 1.00 | 0.00 | 54.10 | 254.57 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.13 | 254.64 | 2.00 | 0.00 | 1.00 | 0.00 | 54.14 | 254.59 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.19 | 255.77 | 2.00 | 0.00 | 1.00 | 0.00 | 54.19 | 258.95 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.24 | 259.93 | 2.00 | 0.00 | 1.00 | 0.00 | 54.29 | 249.88 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.33 | 261.31 | 2.00 | 0.00 | 1.00 | 0.00 | 54.38 | 272.80 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.39 | 282.62 | 2.00 | 0.00 | 1.00 | 0.00 | 54.43 | 291.66 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.48 | 299.32 | 2.00 | 0.00 | 1.00 | 0.00 | 54.52 | 306.76 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.58 | 316.20 | 2.00 | 0.00 | 1.00 | 0.00 | 54.62 | 323.46 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.65 | 333.00 | 2.00 | 0.00 | 1.00 | 0.00 | 54.67 | 343.41 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.71 | 362.60 | 2.00 | 0.00 | 1.00 | 0.00 | 54.77 | 374.21 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.81 | 387.19 | 2.00 | 0.00 | 1.00 | 0.00 | 54.85 | 387.70 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.86 | 390.48 | 2.00 | 0.00 | 1.00 | 0.00 | 54.87 | 387.26 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.91 | 387.35 | 2.00 | 0.00 | 1.00 | 0.00 | 54.96 | 389.17 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.00 | 386.89 | 2.00 | 0.00 | 1.00 | 0.00 | 55.01 | 382.82 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.05 | 373.47 | 2.00 | 0.00 | 1.00 | 0.00 | 55.10 | 357.87 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.12 | 331.72 | 2.00 | 0.00 | 1.00 | 0.00 | 55.13 | 313.58 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.14 | 309.22 | 2.00 | 0.00 | 1.00 | 0.00 | 55.19 | 316.75 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.20 | 316.38 | 2.00 | 0.00 | 1.00 | 0.00 | 55.25 | 308.48 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.29 | 299.55 | 2.00 | 0.00 | 1.00 | 0.00 | 55.33 | 284.92 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.38 | 263.59 | 2.00 | 0.00 | 1.00 | 0.00 | 55.48 | 240.38 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.57 | 227.87 | 2.00 | 0.00 | 1.00 | 0.00 | 55.63 | 237.94 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.72 | 244.53 | 2.00 | 0.00 | 1.00 | 0.00 | 55.80 | 260.68 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.86 | 259.76 | 2.00 | 0.00 | 1.00 | 0.00 | 55.97 | 288.32 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.01 | 306.20 | 2.00 | 0.00 | 1.00 | 0.00 | 56.06 | 186.61 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.11 | 194.57 | 2.00 | 0.00 | 1.00 | 0.00 | 56.15 | 203.27 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.20 | 209.60 | 2.00 | 0.00 | 1.00 | 0.00 | 56.27 | 210.15 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.27 | 210.45 | 2.00 | 0.00 | 1.00 | 0.00 | 56.30 | 203.39 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.33 | 205.64 | 2.00 | 0.00 | 1.00 | 0.00 | 56.35 | 205.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.40 | 211.31 | 2.00 | 0.00 | 1.00 | 0.00 | 56.41 | 211.76 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.44 | 215.53 | 2.00 | 0.00 | 1.00 | 0.00 | 56.49 | 219.75 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.54 | 226.71 | 2.00 | 0.00 | 1.00 | 0.00 | 56.58 | 232.85 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.59 | 236.93 | 2.00 | 0.00 | 1.00 | 0.00 | 56.64 | 239.07 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.69 | 241.29 | 2.00 | 0.00 | 1.00 | 0.00 | 56.73 | 245.40 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.78 | 245.38 | 2.00 | 0.00 | 1.00 | 0.00 | 56.83 | 239.22 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.88 | 230.32 | 2.00 | 0.00 | 1.00 | 0.00 | 56.89 | 223.03 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.95 | 217.71 | 2.00 | 0.00 | 1.00 | 0.00 | 57.01 | 209.81 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 57.07 | 202.70 | 2.00 | 0.00 | 1.00 | 0.00 | 57.11 | 194.25 | 2.00 | 0.00 | 1.00 | 0.00 |
| 57.17 | 187.56 | 2.00 | 0.00 | 1.00 | 0.00 | 57.26 | 179.66 | 2.00 | 0.00 | 1.00 | 0.00 |
| 57.31 | 171.06 | 2.00 | 0.00 | 1.00 | 0.00 | 57.37 | 162.50 | 2.00 | 0.00 | 1.00 | 0.00 |
| 57.45 | 152.96 | 2.00 | 0.00 | 1.00 | 0.00 | 57.51 | 140.63 | 1.75 | 0.00 | 1.00 | 0.00 |
| 57.53 | 131.27 | 1.50 | 0.00 | 1.00 | 0.00 | 57.59 | 124.87 | 1.35 | 0.25 | 1.00 | 0.00 |
| 57.63 | 124.05 | 1.33 | 0.25 | 1.00 | 0.00 | 57.68 | 121.66 | 1.28 | 0.25 | 1.00 | 0.00 |
| 57.73 | 120.01 | 1.24 | 0.36 | 1.00 | 0.00 | 57.78 | 117.62 | 1.19 | 0.36 | 1.00 | 0.00 |
| 57.86 | 111.55 | 1.08 | 0.51 | 1.00 | 0.01 | 57.92 | 100.97 | 2.00 | 0.00 | 1.00 | 0.00 |
| 57.98 | 89.82 | 2.00 | 0.00 | 1.00 | 0.00 | 58.06 | 95.51 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.12 | 92.39 | 2.00 | 0.00 | 1.00 | 0.00 | 58.21 | 88.73 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.26 | 85.71 | 2.00 | 0.00 | 1.00 | 0.00 | 58.35 | 81.38 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.41 | 74.91 | 2.00 | 0.00 | 1.00 | 0.00 | 58.50 | 70.73 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.56 | 67.27 | 2.00 | 0.00 | 1.00 | 0.00 | 58.64 | 74.61 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.73 | 81.15 | 2.00 | 0.00 | 1.00 | 0.00 | 58.80 | 87.16 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.84 | 91.44 | 2.00 | 0.00 | 1.00 | 0.00 | 58.85 | 91.06 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.93 | 87.49 | 2.00 | 0.00 | 1.00 | 0.00 | 58.98 | 82.49 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.02 | 79.02 | 2.00 | 0.00 | 1.00 | 0.00 | 59.12 | 77.74 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.17 | 78.34 | 2.00 | 0.00 | 1.00 | 0.00 | 59.27 | 80.06 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.31 | 82.31 | 2.00 | 0.00 | 1.00 | 0.00 | 59.41 | 84.40 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.46 | 85.91 | 2.00 | 0.00 | 1.00 | 0.00 | 59.55 | 86.53 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.65 | 82.12 | 2.00 | 0.00 | 1.00 | 0.00 | 59.70 | 78.48 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.80 | 75.77 | 2.00 | 0.00 | 1.00 | 0.00 | 59.89 | 79.29 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.94 | 82.68 | 2.00 | 0.00 | 1.00 | 0.00 | 60.01 | 85.21 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.02 | 85.70 | 2.00 | 0.00 | 1.00 | 0.00 | 60.08 | 84.70 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.12 | 83.40 | 2.00 | 0.00 | 1.00 | 0.00 | 60.17 | 81.32 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.27 | 76.99 | 2.00 | 0.00 | 1.00 | 0.00 | 60.31 | 71.83 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.37 | 67.16 | 2.00 | 0.00 | 1.00 | 0.00 | 60.46 | 64.16 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.51 | 61.05 | 2.00 | 0.00 | 1.00 | 0.00 | 60.61 | 59.48 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.65 | 58.49 | 2.00 | 0.00 | 1.00 | 0.00 | 60.75 | 58.52 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.81 | 58.52 | 2.00 | 0.00 | 1.00 | 0.00 | 60.89 | 58.14 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.94 | 58.37 | 2.00 | 0.00 | 1.00 | 0.00 | 61.03 | 59.27 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.09 | 59.56 | 2.00 | 0.00 | 1.00 | 0.00 | 61.19 | 59.09 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.24 | 58.48 | 2.00 | 0.00 | 1.00 | 0.00 | 61.33 | 59.55 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.38 | 65.92 | 2.00 | 0.00 | 1.00 | 0.00 | 61.47 | 73.50 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.53 | 81.14 | 2.00 | 0.00 | 1.00 | 0.00 | 61.62 | 81.97 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.70 | 82.73 | 2.00 | 0.00 | 1.00 | 0.00 | 61.77 | 84.93 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.86 | 89.66 | 2.00 | 0.00 | 1.00 | 0.00 | 61.95 | 94.89 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.97 | 96.91 | 2.00 | 0.00 | 1.00 | 0.00 | 62.01 | 99.66 | 2.00 | 0.00 | 1.00 | 0.00 |
| 62.10 | 99.23 | 2.00 | 0.00 | 1.00 | 0.00 | 62.24 | 89.92 | 2.00 | 0.00 | 1.00 | 0.00 |
| 62.34 | 71.54 | 2.00 | 0.00 | 1.00 | 0.00 | 62.49 | 64.77 | 2.00 | 0.00 | 1.00 | 0.00 |
| 62.54 | 69.68 | 2.00 | 0.00 | 1.00 | 0.00 | 62.66 | 73.33 | 2.00 | 0.00 | 1.00 | 0.00 |
| 62.74 | 77.94 | 2.00 | 0.00 | 1.00 | 0.00 | 62.87 | 80.99 | 2.00 | 0.00 | 1.00 | 0.00 |
| 62.92 | 82.65 | 2.00 | 0.00 | 1.00 | 0.00 | 63.03 | 83.41 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.15 | 83.38 | 2.00 | 0.00 | 1.00 | 0.00 | 63.26 | 82.35 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.37 | 80.92 | 2.00 | 0.00 | 1.00 | 0.00 | 63.45 | 78.49 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.54 | 76.31 | 2.00 | 0.00 | 1.00 | 0.00 | 63.61 | 73.61 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.69 | 69.47 | 2.00 | 0.00 | 1.00 | 0.00 | 63.79 | 67.77 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.89 | 66.74 | 2.00 | 0.00 | 1.00 | 0.00 | 63.98 | 71.48 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 64.07 | 71.91 | 2.00 | 0.00 | 1.00 | 0.00 | 64.15 | 76.48 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.23 | 77.68 | 2.00 | 0.00 | 1.00 | 0.00 | 64.26 | 78.26 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.29 | 78.14 | 2.00 | 0.00 | 1.00 | 0.00 | 64.33 | 74.86 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.43 | 70.78 | 2.00 | 0.00 | 1.00 | 0.00 | 64.47 | 66.07 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.53 | 64.15 | 2.00 | 0.00 | 1.00 | 0.00 | 64.62 | 63.40 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.72 | 63.23 | 2.00 | 0.00 | 1.00 | 0.00 | 64.78 | 63.74 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.86 | 65.01 | 2.00 | 0.00 | 1.00 | 0.00 | 64.96 | 68.31 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.06 | 71.61 | 2.00 | 0.00 | 1.00 | 0.00 | 65.11 | 74.58 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.21 | 75.90 | 2.00 | 0.00 | 1.00 | 0.00 | 65.31 | 76.26 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.40 | 72.77 | 2.00 | 0.00 | 1.00 | 0.00 | 65.50 | 67.97 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.58 | 63.13 | 2.00 | 0.00 | 1.00 | 0.00 | 65.68 | 61.17 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.78 | 60.45 | 2.00 | 0.00 | 1.00 | 0.00 | 65.84 | 59.69 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.86 | 59.62 | 2.00 | 0.00 | 1.00 | 0.00 | 65.87 | 59.36 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.98 | 59.09 | 2.00 | 0.00 | 1.00 | 0.00 | 66.10 | 60.13 | 2.00 | 0.00 | 1.00 | 0.00 |
| 66.21 | 62.32 | 2.00 | 0.00 | 1.00 | 0.00 | 66.34 | 63.01 | 2.00 | 0.00 | 1.00 | 0.00 |
| 66.48 | 63.55 | 2.00 | 0.00 | 1.00 | 0.00 | 66.62 | 62.45 | 2.00 | 0.00 | 1.00 | 0.00 |
| 66.68 | 64.07 | 2.00 | 0.00 | 1.00 | 0.00 | 66.87 | 67.94 | 2.00 | 0.00 | 1.00 | 0.00 |
| 66.96 | 73.89 | 2.00 | 0.00 | 1.00 | 0.00 | 67.11 | 78.15 | 2.00 | 0.00 | 1.00 | 0.00 |
| 67.21 | 76.60 | 2.00 | 0.00 | 1.00 | 0.00 | 67.35 | 73.18 | 2.00 | 0.00 | 1.00 | 0.00 |
| 67.45 | 77.86 | 2.00 | 0.00 | 1.00 | 0.00 | 67.59 | 88.71 | 2.00 | 0.00 | 1.00 | 0.00 |
| 67.68 | 83.67 | 2.00 | 0.00 | 1.00 | 0.00 | 67.83 | 74.68 | 2.00 | 0.00 | 1.00 | 0.00 |
| 67.92 | 88.64 | 2.00 | 0.00 | 1.00 | 0.00 | 68.02 | 99.35 | 2.00 | 0.00 | 1.00 | 0.00 |
| 68.07 | 103.71 | 2.00 | 0.00 | 1.00 | 0.00 | 68.16 | 105.26 | 2.00 | 0.00 | 1.00 | 0.00 |
| 68.26 | 106.54 | 2.00 | 0.00 | 1.00 | 0.00 | 68.35 | 106.44 | 2.00 | 0.00 | 1.00 | 0.00 |
| 68.45 | 105.37 | 2.00 | 0.00 | 1.00 | 0.00 | 68.55 | 103.72 | 2.00 | 0.00 | 1.00 | 0.00 |
| 68.65 | 98.57 | 2.00 | 0.00 | 1.00 | 0.00 | 68.78 | 94.35 | 2.00 | 0.00 | 1.00 | 0.00 |
| 68.78 | 90.91 | 2.00 | 0.00 | 1.00 | 0.00 | 68.79 | 89.70 | 2.00 | 0.00 | 1.00 | 0.00 |
| 68.83 | 89.08 | 2.00 | 0.00 | 1.00 | 0.00 | 68.93 | 88.59 | 2.00 | 0.00 | 1.00 | 0.00 |
| 68.98 | 89.18 | 2.00 | 0.00 | 1.00 | 0.00 | 69.04 | 89.05 | 2.00 | 0.00 | 1.00 | 0.00 |
| 69.12 | 89.10 | 2.00 | 0.00 | 1.00 | 0.00 | 69.22 | 88.23 | 2.00 | 0.00 | 1.00 | 0.00 |
| 69.28 | 86.25 | 2.00 | 0.00 | 1.00 | 0.00 | 69.36 | 83.22 | 2.00 | 0.00 | 1.00 | 0.00 |
| 69.45 | 79.21 | 2.00 | 0.00 | 1.00 | 0.00 | 69.60 | 75.34 | 2.00 | 0.00 | 1.00 | 0.00 |
| 69.70 | 72.05 | 2.00 | 0.00 | 1.00 | 0.00 | 69.80 | 70.68 | 2.00 | 0.00 | 1.00 | 0.00 |
| 69.89 | 70.30 | 2.00 | 0.00 | 1.00 | 0.00 | 69.98 | 69.82 | 2.00 | 0.00 | 1.00 | 0.00 |
| 70.08 | 67.53 | 2.00 | 0.00 | 1.00 | 0.00 | 70.18 | 63.51 | 2.00 | 0.00 | 1.00 | 0.00 |
| 70.32 | 61.16 | 2.00 | 0.00 | 1.00 | 0.00 | 70.42 | 66.77 | 2.00 | 0.00 | 1.00 | 0.00 |
| 70.54 | 74.19 | 2.00 | 0.00 | 1.00 | 0.00 | 70.66 | 75.54 | 2.00 | 0.00 | 1.00 | 0.00 |
| 70.75 | 72.70 | 2.00 | 0.00 | 1.00 | 0.00 | 70.80 | 66.71 | 2.00 | 0.00 | 1.00 | 0.00 |
| 70.89 | 59.87 | 2.00 | 0.00 | 1.00 | 0.00 | 70.99 | 53.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 71.08 | 49.46 | 2.00 | 0.00 | 1.00 | 0.00 | 71.17 | 47.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 71.23 | 47.05 | 2.00 | 0.00 | 1.00 | 0.00 | 71.33 | 46.20 | 2.00 | 0.00 | 1.00 | 0.00 |
| 71.42 | 44.64 | 2.00 | 0.00 | 1.00 | 0.00 | 71.52 | 43.06 | 2.00 | 0.00 | 1.00 | 0.00 |
| 71.58 | 44.01 | 2.00 | 0.00 | 1.00 | 0.00 | 71.67 | 47.43 | 2.00 | 0.00 | 1.00 | 0.00 |
| 71.81 | 50.76 | 2.00 | 0.00 | 1.00 | 0.00 | 71.82 | 52.55 | 2.00 | 0.00 | 1.00 | 0.00 |
| 71.86 | 52.82 | 2.00 | 0.00 | 1.00 | 0.00 | 71.91 | 52.95 | 2.00 | 0.00 | 1.00 | 0.00 |
| 71.97 | 53.27 | 2.00 | 0.00 | 1.00 | 0.00 | 72.05 | 53.72 | 2.00 | 0.00 | 1.00 | 0.00 |
| 72.10 | 54.35 | 2.00 | 0.00 | 1.00 | 0.00 | 72.20 | 54.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 72.25 | 55.49 | 2.00 | 0.00 | 1.00 | 0.00 | 72.34 | 56.94 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 72.44 | 58.80 | 2.00 | 0.00 | 1.00 | 0.00 | 72.53 | 60.40 | 2.00 | 0.00 | 1.00 | 0.00 |
| 72.63 | 61.13 | 2.00 | 0.00 | 1.00 | 0.00 | 72.69 | 61.14 | 2.00 | 0.00 | 1.00 | 0.00 |
| 72.82 | 60.87 | 2.00 | 0.00 | 1.00 | 0.00 | 72.92 | 60.05 | 2.00 | 0.00 | 1.00 | 0.00 |
| 73.06 | 59.27 | 2.00 | 0.00 | 1.00 | 0.00 | 73.16 | 59.57 | 2.00 | 0.00 | 1.00 | 0.00 |
| 73.30 | 60.65 | 2.00 | 0.00 | 1.00 | 0.00 | 73.35 | 61.53 | 2.00 | 0.00 | 1.00 | 0.00 |
| 73.38 | 61.23 | 2.00 | 0.00 | 1.00 | 0.00 | 73.47 | 60.67 | 2.00 | 0.00 | 1.00 | 0.00 |
| 73.53 | 60.20 | 2.00 | 0.00 | 1.00 | 0.00 | 73.62 | 59.95 | 2.00 | 0.00 | 1.00 | 0.00 |
| 73.71 | 60.28 | 2.00 | 0.00 | 1.00 | 0.00 | 73.77 | 61.46 | 2.00 | 0.00 | 1.00 | 0.00 |
| 73.86 | 63.08 | 2.00 | 0.00 | 1.00 | 0.00 | 73.96 | 64.61 | 2.00 | 0.00 | 1.00 | 0.00 |
| 74.06 | 65.59 | 2.00 | 0.00 | 1.00 | 0.00 | 74.13 | 66.22 | 2.00 | 0.00 | 1.00 | 0.00 |
| 74.24 | 66.66 | 2.00 | 0.00 | 1.00 | 0.00 | 74.34 | 67.26 | 2.00 | 0.00 | 1.00 | 0.00 |
| 74.44 | 67.81 | 2.00 | 0.00 | 1.00 | 0.00 | 74.58 | 67.28 | 2.00 | 0.00 | 1.00 | 0.00 |
| 74.68 | 62.80 | 2.00 | 0.00 | 1.00 | 0.00 | 74.80 | 58.74 | 2.00 | 0.00 | 1.00 | 0.00 |
| 74.92 | 56.43 | 2.00 | 0.00 | 1.00 | 0.00 | 75.07 | 58.35 | 2.00 | 0.00 | 1.00 | 0.00 |
| 75.08 | 59.34 | 2.00 | 0.00 | 1.00 | 0.00 | 75.11 | 59.53 | 2.00 | 0.00 | 1.00 | 0.00 |
| 75.16 | 60.28 | 2.00 | 0.00 | 1.00 | 0.00 | 75.25 | 61.74 | 2.00 | 0.00 | 1.00 | 0.00 |
| 75.32 | 63.23 | 2.00 | 0.00 | 1.00 | 0.00 | 75.40 | 63.73 | 2.00 | 0.00 | 1.00 | 0.00 |
| 75.50 | 62.77 | 2.00 | 0.00 | 1.00 | 0.00 | 75.59 | 60.75 | 2.00 | 0.00 | 1.00 | 0.00 |
| 75.69 | 58.60 | 2.00 | 0.00 | 1.00 | 0.00 | 75.78 | 56.46 | 2.00 | 0.00 | 1.00 | 0.00 |
| 75.88 | 54.66 | 2.00 | 0.00 | 1.00 | 0.00 | 75.96 | 52.90 | 2.00 | 0.00 | 1.00 | 0.00 |
| 76.05 | 51.65 | 2.00 | 0.00 | 1.00 | 0.00 | 76.14 | 51.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 76.26 | 51.09 | 2.00 | 0.00 | 1.00 | 0.00 | 76.36 | 51.38 | 2.00 | 0.00 | 1.00 | 0.00 |
| 76.41 | 51.50 | 2.00 | 0.00 | 1.00 | 0.00 | 76.51 | 51.17 | 2.00 | 0.00 | 1.00 | 0.00 |
| 76.65 | 51.04 | 2.00 | 0.00 | 1.00 | 0.00 | 76.72 | 51.12 | 2.00 | 0.00 | 1.00 | 0.00 |
| 76.79 | 51.39 | 2.00 | 0.00 | 1.00 | 0.00 | 76.89 | 53.53 | 2.00 | 0.00 | 1.00 | 0.00 |
| 76.98 | 61.89 | 2.00 | 0.00 | 1.00 | 0.00 | 77.08 | 69.60 | 2.00 | 0.00 | 1.00 | 0.00 |
| 77.18 | 77.29 | 2.00 | 0.00 | 1.00 | 0.00 | 77.28 | 84.26 | 2.00 | 0.00 | 1.00 | 0.00 |
| 77.37 | 93.62 | 2.00 | 0.00 | 1.00 | 0.00 | 77.42 | 100.64 | 2.00 | 0.00 | 1.00 | 0.00 |
| 77.42 | 104.44 | 2.00 | 0.00 | 1.00 | 0.00 | 77.44 | 107.05 | 2.00 | 0.00 | 1.00 | 0.00 |
| 77.48 | 110.31 | 2.00 | 0.00 | 1.00 | 0.00 | 77.52 | 113.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 77.54 | 114.44 | 2.00 | 0.00 | 1.00 | 0.00 | 77.57 | 115.54 | 2.00 | 0.00 | 1.00 | 0.00 |
| 77.62 | 115.93 | 2.00 | 0.00 | 1.00 | 0.00 | 77.65 | 115.64 | 2.00 | 0.00 | 1.00 | 0.00 |
| 77.67 | 113.32 | 2.00 | 0.00 | 1.00 | 0.00 | 77.71 | 111.24 | 2.00 | 0.00 | 1.00 | 0.00 |
| 77.71 | 107.78 | 2.00 | 0.00 | 1.00 | 0.00 | 77.76 | 104.25 | 2.00 | 0.00 | 1.00 | 0.00 |
| 77.81 | 98.88 | 2.00 | 0.00 | 1.00 | 0.00 | 77.90 | 94.60 | 2.00 | 0.00 | 1.00 | 0.00 |
| 77.95 | 92.44 | 2.00 | 0.00 | 1.00 | 0.00 | 78.01 | 91.29 | 2.00 | 0.00 | 1.00 | 0.00 |
| 78.10 | 89.37 | 2.00 | 0.00 | 1.00 | 0.00 | 78.16 | 84.71 | 2.00 | 0.00 | 1.00 | 0.00 |
| 78.24 | 79.05 | 2.00 | 0.00 | 1.00 | 0.00 | 78.29 | 73.14 | 2.00 | 0.00 | 1.00 | 0.00 |
| 78.39 | 69.27 | 2.00 | 0.00 | 1.00 | 0.00 | 78.47 | 68.51 | 2.00 | 0.00 | 1.00 | 0.00 |
| 78.53 | 71.72 | 2.00 | 0.00 | 1.00 | 0.00 | 78.62 | 77.71 | 2.00 | 0.00 | 1.00 | 0.00 |
| 78.68 | 84.02 | 2.00 | 0.00 | 1.00 | 0.00 | 78.69 | 89.57 | 2.00 | 0.00 | 1.00 | 0.00 |
| 78.78 | 95.10 | 2.00 | 0.00 | 1.00 | 0.00 | 78.81 | 102.04 | 2.00 | 0.00 | 1.00 | 0.00 |
| 78.92 | 107.35 | 2.00 | 0.00 | 1.00 | 0.00 | 79.03 | 107.43 | 2.00 | 0.00 | 1.00 | 0.00 |
| 79.16 | 99.26 | 2.00 | 0.00 | 1.00 | 0.00 | 79.26 | 88.45 | 2.00 | 0.00 | 1.00 | 0.00 |
| 79.35 | 83.92 | 2.00 | 0.00 | 1.00 | 0.00 | 79.45 | 85.78 | 2.00 | 0.00 | 1.00 | 0.00 |
| 79.54 | 89.58 | 2.00 | 0.00 | 1.00 | 0.00 | 79.64 | 91.91 | 2.00 | 0.00 | 1.00 | 0.00 |
| 79.74 | 93.85 | 2.00 | 0.00 | 1.00 | 0.00 | 79.88 | 94.86 | 2.00 | 0.00 | 1.00 | 0.00 |
| 79.98 | 95.73 | 2.00 | 0.00 | 1.00 | 0.00 | 80.12 | 95.14 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 80.22 | 91.22 | 2.00 | 0.00 | 1.00 | 0.00 | 80.36 | 86.07 | 2.00 | 0.00 | 1.00 | 0.00 |
| 80.46 | 81.11 | 2.00 | 0.00 | 1.00 | 0.00 | 80.60 | 77.21 | 2.00 | 0.00 | 1.00 | 0.00 |
| 80.70 | 74.37 | 2.00 | 0.00 | 1.00 | 0.00 | 80.83 | 72.04 | 2.00 | 0.00 | 1.00 | 0.00 |
| 80.94 | 69.62 | 2.00 | 0.00 | 1.00 | 0.00 | 81.01 | 67.91 | 2.00 | 0.00 | 1.00 | 0.00 |
| 81.04 | 66.50 | 2.00 | 0.00 | 1.00 | 0.00 | 81.09 | 65.97 | 2.00 | 0.00 | 1.00 | 0.00 |
| 81.13 | 66.04 | 2.00 | 0.00 | 1.00 | 0.00 | 81.18 | 67.98 | 2.00 | 0.00 | 1.00 | 0.00 |
| 81.23 | 72.13 | 2.00 | 0.00 | 1.00 | 0.00 | 81.28 | 77.64 | 2.00 | 0.00 | 1.00 | 0.00 |
| 81.33 | 84.19 | 2.00 | 0.00 | 1.00 | 0.00 | 81.37 | 92.48 | 2.00 | 0.00 | 1.00 | 0.00 |
| 81.42 | 100.46 | 2.00 | 0.00 | 1.00 | 0.00 | 81.47 | 106.15 | 2.00 | 0.00 | 1.00 | 0.00 |
| 81.52 | 109.13 | 2.00 | 0.00 | 1.00 | 0.00 | 81.56 | 111.09 | 2.00 | 0.00 | 1.00 | 0.00 |
| 81.61 | 112.75 | 2.00 | 0.00 | 1.00 | 0.00 | 81.64 | 114.41 | 2.00 | 0.00 | 1.00 | 0.00 |
| 81.70 | 116.91 | 2.00 | 0.00 | 1.00 | 0.00 | 81.75 | 118.94 | 2.00 | 0.00 | 1.00 | 0.00 |
| 81.79 | 119.14 | 2.00 | 0.00 | 1.00 | 0.00 | 81.82 | 116.62 | 2.00 | 0.00 | 1.00 | 0.00 |
| 81.86 | 112.49 | 2.00 | 0.00 | 1.00 | 0.00 | 81.91 | 107.66 | 2.00 | 0.00 | 1.00 | 0.00 |
| 81.95 | 102.27 | 2.00 | 0.00 | 1.00 | 0.00 | 82.00 | 95.81 | 2.00 | 0.00 | 1.00 | 0.00 |
| 82.09 | 89.46 | 2.00 | 0.00 | 1.00 | 0.00 | 82.15 | 84.64 | 2.00 | 0.00 | 1.00 | 0.00 |
| 82.19 | 81.03 | 2.00 | 0.00 | 1.00 | 0.00 | 82.26 | 77.56 | 2.00 | 0.00 | 1.00 | 0.00 |
| 82.34 | 74.17 | 2.00 | 0.00 | 1.00 | 0.00 | 82.39 | 71.81 | 2.00 | 0.00 | 1.00 | 0.00 |
| 82.48 | 69.97 | 2.00 | 0.00 | 1.00 | 0.00 | 82.58 | 68.21 | 2.00 | 0.00 | 1.00 | 0.00 |
| 82.62 | 66.60 | 2.00 | 0.00 | 1.00 | 0.00 | 82.70 | 65.56 | 2.00 | 0.00 | 1.00 | 0.00 |
| 82.77 | 64.46 | 2.00 | 0.00 | 1.00 | 0.00 | 82.87 | 64.01 | 2.00 | 0.00 | 1.00 | 0.00 |
| 82.96 | 63.38 | 2.00 | 0.00 | 1.00 | 0.00 | 83.06 | 63.34 | 2.00 | 0.00 | 1.00 | 0.00 |
| 83.16 | 63.10 | 2.00 | 0.00 | 1.00 | 0.00 | 83.25 | 62.94 | 2.00 | 0.00 | 1.00 | 0.00 |
| 83.34 | 62.57 | 2.00 | 0.00 | 1.00 | 0.00 | 83.44 | 63.55 | 2.00 | 0.00 | 1.00 | 0.00 |
| 83.54 | 64.89 | 2.00 | 0.00 | 1.00 | 0.00 | 83.64 | 66.49 | 2.00 | 0.00 | 1.00 | 0.00 |
| 83.73 | 68.29 | 2.00 | 0.00 | 1.00 | 0.00 | 83.83 | 70.46 | 2.00 | 0.00 | 1.00 | 0.00 |
| 83.85 | 73.38 | 2.00 | 0.00 | 1.00 | 0.00 | 83.89 | 75.93 | 2.00 | 0.00 | 1.00 | 0.00 |
| 83.94 | 81.26 | 2.00 | 0.00 | 1.00 | 0.00 | 84.04 | 85.92 | 2.00 | 0.00 | 1.00 | 0.00 |
| 84.09 | 90.10 | 2.00 | 0.00 | 1.00 | 0.00 | 84.13 | 91.94 | 2.00 | 0.00 | 1.00 | 0.00 |
| 84.18 | 93.61 | 2.00 | 0.00 | 1.00 | 0.00 | 84.25 | 94.85 | 2.00 | 0.00 | 1.00 | 0.00 |
| 84.33 | 95.60 | 2.00 | 0.00 | 1.00 | 0.00 | 84.37 | 95.90 | 2.00 | 0.00 | 1.00 | 0.00 |
| 84.46 | 94.98 | 2.00 | 0.00 | 1.00 | 0.00 | 84.52 | 93.43 | 2.00 | 0.00 | 1.00 | 0.00 |
| 84.57 | 91.27 | 2.00 | 0.00 | 1.00 | 0.00 | 84.67 | 90.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 84.71 | 89.72 | 2.00 | 0.00 | 1.00 | 0.00 | 84.81 | 90.86 | 2.00 | 0.00 | 1.00 | 0.00 |
| 84.86 | 92.62 | 2.00 | 0.00 | 1.00 | 0.00 | 84.91 | 94.03 | 2.00 | 0.00 | 1.00 | 0.00 |
| 85.00 | 94.63 | 2.00 | 0.00 | 1.00 | 0.00 | 85.05 | 93.94 | 2.00 | 0.00 | 1.00 | 0.00 |
| 85.15 | 92.30 | 2.00 | 0.00 | 1.00 | 0.00 | 85.19 | 89.13 | 2.00 | 0.00 | 1.00 | 0.00 |
| 85.29 | 85.98 | 2.00 | 0.00 | 1.00 | 0.00 | 85.35 | 83.14 | 2.00 | 0.00 | 1.00 | 0.00 |
| 85.42 | 81.54 | 2.00 | 0.00 | 1.00 | 0.00 | 85.48 | 80.45 | 2.00 | 0.00 | 1.00 | 0.00 |
| 85.55 | 79.50 | 2.00 | 0.00 | 1.00 | 0.00 | 85.63 | 78.76 | 2.00 | 0.00 | 1.00 | 0.00 |
| 85.68 | 78.25 | 2.00 | 0.00 | 1.00 | 0.00 | 85.77 | 78.03 | 2.00 | 0.00 | 1.00 | 0.00 |
| 85.82 | 78.34 | 2.00 | 0.00 | 1.00 | 0.00 | 85.89 | 78.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 85.96 | 79.01 | 2.00 | 0.00 | 1.00 | 0.00 | 86.03 | 78.44 | 2.00 | 0.00 | 1.00 | 0.00 |
| 86.11 | 77.40 | 2.00 | 0.00 | 1.00 | 0.00 | 86.16 | 76.21 | 2.00 | 0.00 | 1.00 | 0.00 |
| 86.25 | 75.81 | 2.00 | 0.00 | 1.00 | 0.00 | 86.36 | 74.32 | 2.00 | 0.00 | 1.00 | 0.00 |
| 86.50 | 72.85 | 2.00 | 0.00 | 1.00 | 0.00 | 86.51 | 70.91 | 2.00 | 0.00 | 1.00 | 0.00 |
| 86.52 | 69.58 | 2.00 | 0.00 | 1.00 | 0.00 | 86.57 | 66.80 | 2.00 | 0.00 | 1.00 | 0.00 |
| 86.65 | 63.50 | 2.00 | 0.00 | 1.00 | 0.00 | 86.71 | 60.73 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 86.80 | 59.11 | 2.00 | 0.00 | 1.00 | 0.00 | 86.90 | 57.42 | 2.00 | 0.00 | 1.00 | 0.00 |
| 86.99 | 55.74 | 2.00 | 0.00 | 1.00 | 0.00 | 87.04 | 54.32 | 2.00 | 0.00 | 1.00 | 0.00 |
| 87.14 | 53.51 | 2.00 | 0.00 | 1.00 | 0.00 | 87.19 | 53.36 | 2.00 | 0.00 | 1.00 | 0.00 |
| 87.28 | 54.40 | 2.00 | 0.00 | 1.00 | 0.00 | 87.38 | 55.67 | 2.00 | 0.00 | 1.00 | 0.00 |
| 87.43 | 56.85 | 2.00 | 0.00 | 1.00 | 0.00 | 87.52 | 57.36 | 2.00 | 0.00 | 1.00 | 0.00 |
| 87.61 | 57.58 | 2.00 | 0.00 | 1.00 | 0.00 | 87.66 | 57.47 | 2.00 | 0.00 | 1.00 | 0.00 |
| 87.76 | 57.12 | 2.00 | 0.00 | 1.00 | 0.00 | 87.84 | 56.58 | 2.00 | 0.00 | 1.00 | 0.00 |
| 87.91 | 56.08 | 2.00 | 0.00 | 1.00 | 0.00 | 88.00 | 55.54 | 2.00 | 0.00 | 1.00 | 0.00 |
| 88.11 | 55.23 | 2.00 | 0.00 | 1.00 | 0.00 | 88.19 | 55.01 | 2.00 | 0.00 | 1.00 | 0.00 |
| 88.25 | 54.79 | 2.00 | 0.00 | 1.00 | 0.00 | 88.34 | 54.27 | 2.00 | 0.00 | 1.00 | 0.00 |
| 88.44 | 53.59 | 2.00 | 0.00 | 1.00 | 0.00 | 88.54 | 52.93 | 2.00 | 0.00 | 1.00 | 0.00 |
| 88.64 | 52.52 | 2.00 | 0.00 | 1.00 | 0.00 | 88.72 | 52.42 | 2.00 | 0.00 | 1.00 | 0.00 |
| 88.82 | 52.53 | 2.00 | 0.00 | 1.00 | 0.00 | 88.91 | 52.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 89.01 | 53.02 | 2.00 | 0.00 | 1.00 | 0.00 | 89.10 | 53.22 | 2.00 | 0.00 | 1.00 | 0.00 |
| 89.19 | 52.91 | 2.00 | 0.00 | 1.00 | 0.00 | 89.30 | 50.44 | 2.00 | 0.00 | 1.00 | 0.00 |
| 89.39 | 48.98 | 2.00 | 0.00 | 1.00 | 0.00 | 89.49 | 49.49 | 2.00 | 0.00 | 1.00 | 0.00 |
| 89.59 | 52.76 | 2.00 | 0.00 | 1.00 | 0.00 | 89.69 | 54.90 | 2.00 | 0.00 | 1.00 | 0.00 |
| 89.73 | 55.86 | 2.00 | 0.00 | 1.00 | 0.00 | 89.78 | 56.23 | 2.00 | 0.00 | 1.00 | 0.00 |
| 89.83 | 56.56 | 2.00 | 0.00 | 1.00 | 0.00 | 89.88 | 57.05 | 2.00 | 0.00 | 1.00 | 0.00 |
| 89.93 | 57.77 | 2.00 | 0.00 | 1.00 | 0.00 | 90.00 | 58.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 90.07 | 59.82 | 2.00 | 0.00 | 1.00 | 0.00 | 90.12 | 61.24 | 2.00 | 0.00 | 1.00 | 0.00 |
| 90.22 | 62.84 | 2.00 | 0.00 | 1.00 | 0.00 | 90.27 | 65.70 | 2.00 | 0.00 | 1.00 | 0.00 |
| 90.36 | 68.34 | 2.00 | 0.00 | 1.00 | 0.00 | 90.46 | 70.27 | 2.00 | 0.00 | 1.00 | 0.00 |
| 90.50 | 71.01 | 2.00 | 0.00 | 1.00 | 0.00 | 90.61 | 71.39 | 2.00 | 0.00 | 1.00 | 0.00 |
| 90.66 | 71.12 | 2.00 | 0.00 | 1.00 | 0.00 | 90.75 | 69.74 | 2.00 | 0.00 | 1.00 | 0.00 |
| 90.84 | 67.94 | 2.00 | 0.00 | 1.00 | 0.00 | 90.89 | 66.20 | 2.00 | 0.00 | 1.00 | 0.00 |
| 90.99 | 65.12 | 2.00 | 0.00 | 1.00 | 0.00 | 91.04 | 64.21 | 2.00 | 0.00 | 1.00 | 0.00 |
| 91.14 | 63.69 | 2.00 | 0.00 | 1.00 | 0.00 | 91.22 | 63.19 | 2.00 | 0.00 | 1.00 | 0.00 |
| 91.28 | 62.55 | 2.00 | 0.00 | 1.00 | 0.00 | 91.37 | 61.75 | 2.00 | 0.00 | 1.00 | 0.00 |
| 91.47 | 60.75 | 2.00 | 0.00 | 1.00 | 0.00 | 91.61 | 60.19 | 2.00 | 0.00 | 1.00 | 0.00 |
| 91.71 | 59.97 | 2.00 | 0.00 | 1.00 | 0.00 | 91.81 | 60.03 | 2.00 | 0.00 | 1.00 | 0.00 |
| 91.87 | 59.68 | 2.00 | 0.00 | 1.00 | 0.00 | 92.00 | 57.50 | 2.00 | 0.00 | 1.00 | 0.00 |
| 92.10 | 55.77 | 2.00 | 0.00 | 1.00 | 0.00 | 92.20 | 54.98 | 2.00 | 0.00 | 1.00 | 0.00 |
| 92.33 | 56.37 | 2.00 | 0.00 | 1.00 | 0.00 | 92.38 | 57.43 | 2.00 | 0.00 | 1.00 | 0.00 |
| 92.43 | 57.96 | 2.00 | 0.00 | 1.00 | 0.00 | 92.48 | 58.57 | 2.00 | 0.00 | 1.00 | 0.00 |
| 92.56 | 59.09 | 2.00 | 0.00 | 1.00 | 0.00 | 92.63 | 59.41 | 2.00 | 0.00 | 1.00 | 0.00 |
| 92.67 | 59.42 | 2.00 | 0.00 | 1.00 | 0.00 | 92.72 | 59.38 | 2.00 | 0.00 | 1.00 | 0.00 |
| 92.77 | 59.37 | 2.00 | 0.00 | 1.00 | 0.00 | 92.86 | 59.49 | 2.00 | 0.00 | 1.00 | 0.00 |
| 92.92 | 59.88 | 2.00 | 0.00 | 1.00 | 0.00 | 92.97 | 61.03 | 2.00 | 0.00 | 1.00 | 0.00 |
| 93.05 | 62.12 | 2.00 | 0.00 | 1.00 | 0.00 | 93.10 | 63.07 | 2.00 | 0.00 | 1.00 | 0.00 |
| 93.16 | 63.28 | 2.00 | 0.00 | 1.00 | 0.00 | 93.25 | 63.20 | 2.00 | 0.00 | 1.00 | 0.00 |
| 93.35 | 62.84 | 2.00 | 0.00 | 1.00 | 0.00 | 93.40 | 62.27 | 2.00 | 0.00 | 1.00 | 0.00 |
| 93.49 | 61.82 | 2.00 | 0.00 | 1.00 | 0.00 | 93.56 | 61.55 | 2.00 | 0.00 | 1.00 | 0.00 |
| 93.64 | 61.65 | 2.00 | 0.00 | 1.00 | 0.00 | 93.73 | 62.81 | 2.00 | 0.00 | 1.00 | 0.00 |
| 93.83 | 64.72 | 2.00 | 0.00 | 1.00 | 0.00 | 93.88 | 67.85 | 2.00 | 0.00 | 1.00 | 0.00 |
| 93.97 | 70.35 | 2.00 | 0.00 | 1.00 | 0.00 | 94.07 | 72.95 | 2.00 | 0.00 | 1.00 | 0.00 |
| 94.17 | 75.57 | 2.00 | 0.00 | 1.00 | 0.00 | 94.26 | 76.60 | 2.00 | 0.00 | 1.00 | 0.00 |
| 94.36 | 81.75 | 2.00 | 0.00 | 1.00 | 0.00 | 94.45 | 87.02 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 94.55 | 91.74 | 2.00 | 0.00 | 1.00 | 0.00 | 94.64 | 89.52 | 2.00 | 0.00 | 1.00 | 0.00 |
| 94.72 | 85.22 | 2.00 | 0.00 | 1.00 | 0.00 | 94.74 | 79.85 | 2.00 | 0.00 | 1.00 | 0.00 |
| 94.77 | 76.98 | 2.00 | 0.00 | 1.00 | 0.00 | 94.85 | 74.39 | 2.00 | 0.00 | 1.00 | 0.00 |
| 94.90 | 75.17 | 2.00 | 0.00 | 1.00 | 0.00 | 94.95 | 77.89 | 2.00 | 0.00 | 1.00 | 0.00 |
| 95.01 | 85.22 | 2.00 | 0.00 | 1.00 | 0.00 | 95.09 | 94.37 | 2.00 | 0.00 | 1.00 | 0.00 |
| 95.14 | 107.02 | 2.00 | 0.00 | 1.00 | 0.00 | 95.23 | 117.34 | 2.00 | 0.00 | 1.00 | 0.00 |
| 95.29 | 126.89 | 2.00 | 0.00 | 1.00 | 0.00 | 95.38 | 131.69 | 2.00 | 0.00 | 1.00 | 0.00 |
| 95.43 | 133.43 | 2.00 | 0.00 | 1.00 | 0.00 | 95.52 | 132.50 | 2.00 | 0.00 | 1.00 | 0.00 |
| 95.57 | 128.95 | 2.00 | 0.00 | 1.00 | 0.00 | 95.67 | 123.49 | 2.00 | 0.00 | 1.00 | 0.00 |
| 95.77 | 118.72 | 2.00 | 0.00 | 1.00 | 0.00 | 95.86 | 118.80 | 2.00 | 0.00 | 1.00 | 0.00 |
| 95.95 | 116.56 | 2.00 | 0.00 | 1.00 | 0.00 | 96.03 | 118.40 | 2.00 | 0.00 | 1.00 | 0.00 |
| 96.11 | 118.64 | 2.00 | 0.00 | 1.00 | 0.00 | 96.20 | 124.65 | 2.00 | 0.00 | 1.00 | 0.00 |
| 96.30 | 125.73 | 2.00 | 0.00 | 1.00 | 0.00 | 96.39 | 124.50 | 2.00 | 0.00 | 1.00 | 0.00 |
| 96.50 | 120.31 | 2.00 | 0.00 | 1.00 | 0.00 | 96.59 | 106.72 | 2.00 | 0.00 | 1.00 | 0.00 |
| 96.69 | 91.36 | 2.00 | 0.00 | 1.00 | 0.00 | 96.78 | 77.51 | 2.00 | 0.00 | 1.00 | 0.00 |
| 96.87 | 72.98 | 2.00 | 0.00 | 1.00 | 0.00 | 96.98 | 71.40 | 2.00 | 0.00 | 1.00 | 0.00 |
| 97.02 | 71.90 | 2.00 | 0.00 | 1.00 | 0.00 | 97.06 | 73.47 | 2.00 | 0.00 | 1.00 | 0.00 |
| 97.12 | 76.16 | 2.00 | 0.00 | 1.00 | 0.00 | 97.16 | 79.48 | 2.00 | 0.00 | 1.00 | 0.00 |
| 97.21 | 83.99 | 2.00 | 0.00 | 1.00 | 0.00 | 97.27 | 89.17 | 2.00 | 0.00 | 1.00 | 0.00 |
| 97.33 | 93.67 | 2.00 | 0.00 | 1.00 | 0.00 | 97.40 | 96.33 | 2.00 | 0.00 | 1.00 | 0.00 |
| 97.45 | 97.51 | 2.00 | 0.00 | 1.00 | 0.00 | 97.50 | 100.38 | 2.00 | 0.00 | 1.00 | 0.00 |
| 97.58 | 104.78 | 2.00 | 0.00 | 1.00 | 0.00 | 97.65 | 110.26 | 2.00 | 0.00 | 1.00 | 0.00 |
| 97.69 | 113.95 | 2.00 | 0.00 | 1.00 | 0.00 | 97.74 | 115.68 | 2.00 | 0.00 | 1.00 | 0.00 |
| 97.81 | 116.42 | 2.00 | 0.00 | 1.00 | 0.00 | 97.88 | 116.63 | 2.00 | 0.00 | 1.00 | 0.00 |
| 97.93 | 111.98 | 2.00 | 0.00 | 1.00 | 0.00 | 98.03 | 97.35 | 2.00 | 0.00 | 1.00 | 0.00 |
| 98.15 | 83.50 | 2.00 | 0.00 | 1.00 | 0.00 | 98.21 | 78.05 | 2.00 | 0.00 | 1.00 | 0.00 |
| 98.32 | 80.19 | 2.00 | 0.00 | 1.00 | 0.00 | 98.42 | 85.96 | 2.00 | 0.00 | 1.00 | 0.00 |
| 98.47 | 79.73 | 2.00 | 0.00 | 1.00 | 0.00 | 98.57 | 88.75 | 2.00 | 0.00 | 1.00 | 0.00 |
| 98.70 | 94.00 | 2.00 | 0.00 | 1.00 | 0.00 | 98.78 | 92.13 | 2.00 | 0.00 | 1.00 | 0.00 |
| 98.85 | 84.79 | 2.00 | 0.00 | 1.00 | 0.00 | 98.86 | 76.77 | 2.00 | 0.00 | 1.00 | 0.00 |
| 98.92 | 73.26 | 2.00 | 0.00 | 1.00 | 0.00 | 98.98 | 72.24 | 2.00 | 0.00 | 1.00 | 0.00 |
| 99.03 | 70.12 | 2.00 | 0.00 | 1.00 | 0.00 | 99.11 | 63.67 | 2.00 | 0.00 | 1.00 | 0.00 |
| 99.18 | 74.69 | 2.00 | 0.00 | 1.00 | 0.00 | 99.23 | 73.25 | 2.00 | 0.00 | 1.00 | 0.00 |
| 99.32 | 76.01 | 2.00 | 0.00 | 1.00 | 0.00 | 99.37 | 83.05 | 2.00 | 0.00 | 1.00 | 0.00 |
| 99.45 | 90.04 | 2.00 | 0.00 | 1.00 | 0.00 | 99.56 | 96.01 | 2.00 | 0.00 | 1.00 | 0.00 |
| 99.64 | 101.90 | 2.00 | 0.00 | 1.00 | 0.00 | 99.71 | 108.77 | 2.00 | 0.00 | 1.00 | 0.00 |
| 99.75 | 113.72 | 2.00 | 0.00 | 1.00 | 0.00 | 99.90 | 118.27 | 2.00 | 0.00 | 1.00 | 0.00 |
| 99.95 | 126.55 | 2.00 | 0.00 | 1.00 | 0.00 | 100.04 | 127.45 | 2.00 | 0.00 | 1.00 | 0.00 |
| 100.14 | 116.89 | 2.00 | 0.00 | 1.00 | 0.00 | 100.14 | 106.43 | 2.00 | 0.00 | 1.00 | 0.00 |
| 100.15 | 105.52 | 2.00 | 0.00 | 1.00 | 0.00 | 100.19 | 111.71 | 2.00 | 0.00 | 1.00 | 0.00 |
| 100.21 | 119.29 | 2.00 | 0.00 | 1.00 | 0.00 | 100.24 | 108.37 | 2.00 | 0.00 | 1.00 | 0.00 |
| 100.28 | 106.62 | 2.00 | 0.00 | 1.00 | 0.00 | 100.31 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 100.33 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 100.38 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 100.39 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 100.43 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 100.48 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 100.53 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 100.57 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 100.60 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|

**Total estimated settlement: 1.07**

**Abbreviations**

| | |
|---|---|
| $Q_{tn,cs}$: | Equivalent clean sand normalized cone resistance |
| FS: | Factor of safety against liquefaction |
| $e_v$ (%): | Post-liquefaction volumentric strain |
| DF: | $e_v$ depth weighting factor |
| Settlement: | Calculated settlement |

**:: Strength loss calculation (Robertson (2009) ::**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 0.04 | 0.10 | 0.16 | 54.25 | 8.56 | 4.06 | 18.21 | 3.82 |
| 0.10 | 0.13 | 0.21 | 54.25 | 11.25 | 4.06 | 10.48 | 2.18 |
| 0.11 | 0.23 | 0.37 | 54.25 | 19.92 | 4.06 | 9.43 | 3.40 |
| 0.16 | 0.54 | 0.85 | 54.25 | 46.18 | 4.06 | 6.91 | 5.55 |
| 0.19 | 1.28 | 2.04 | 26.86 | 54.86 | 3.64 | 5.54 | 10.68 |
| 0.24 | 2.83 | 4.54 | 12.41 | 56.29 | 3.19 | 4.85 | 19.02 |
| 0.31 | 4.93 | 7.89 | 7.08 | 55.92 | 2.89 | 0.08 | 0.64 |
| 0.38 | 6.68 | 10.70 | 5.13 | 54.91 | 2.74 | 0.08 | 0.64 |
| 0.43 | 7.56 | 12.11 | 4.55 | 55.04 | 2.68 | 0.08 | 0.64 |
| 0.49 | 7.32 | 11.72 | 4.88 | 57.26 | 2.72 | 0.09 | 0.65 |
| 0.58 | 6.81 | 10.90 | 5.56 | 60.65 | 2.78 | 0.12 | 0.66 |
| 0.63 | 6.24 | 9.98 | 6.53 | 65.19 | 2.85 | 0.17 | 0.67 |
| 0.67 | 6.05 | 9.68 | 7.19 | 69.56 | 2.90 | 0.25 | 0.68 |
| 0.72 | 6.02 | 9.62 | 7.57 | 72.80 | 2.92 | 0.32 | 0.69 |
| 0.72 | 6.70 | 10.70 | 7.32 | 78.32 | 2.91 | 0.51 | 0.70 |
| 0.84 | 9.28 | 14.84 | 5.43 | 80.63 | 2.77 | 0.62 | 0.71 |
| 0.96 | 15.82 | 25.35 | 2.97 | 75.23 | 2.50 | 0.39 | 0.70 |
| 1.06 | 22.64 | 36.29 | 2.02 | 73.35 | 2.32 | 0.34 | 0.69 |
| 1.24 | 27.97 | 44.84 | 1.65 | 74.08 | 2.21 | 0.36 | 0.69 |
| 1.30 | 31.48 | 50.47 | 1.49 | 75.12 | 2.14 | 0.39 | 0.70 |
| 1.48 | 37.28 | 59.78 | 1.34 | 80.22 | 2.04 | 0.59 | 0.71 |
| 1.59 | 42.14 | 67.57 | 1.29 | 87.16 | 1.98 | 0.72 | 0.72 |
| 1.69 | 47.40 | 76.02 | 1.26 | 95.52 | 1.93 | 0.74 | 0.74 |
| 1.69 | 49.80 | 79.87 | 1.25 | 99.55 | 1.91 | 0.75 | 0.75 |
| 1.74 | 53.24 | 85.40 | 1.22 | 104.46 | 1.88 | 0.76 | 0.76 |
| 1.79 | 53.78 | 86.26 | 1.22 | 105.40 | 1.88 | 0.76 | 0.76 |
| 1.84 | 52.90 | 84.84 | 1.23 | 104.08 | 1.89 | 0.76 | 0.76 |
| 1.88 | 51.25 | 82.18 | 1.23 | 101.34 | 1.89 | 0.75 | 0.75 |
| 1.93 | 49.46 | 79.31 | 1.24 | 98.11 | 1.90 | 0.74 | 0.74 |
| 1.99 | 48.69 | 78.06 | 1.23 | 96.29 | 1.90 | 0.74 | 0.74 |
| 2.03 | 48.08 | 77.07 | 1.23 | 94.90 | 1.89 | 0.74 | 0.74 |
| 2.08 | 47.67 | 76.42 | 1.23 | 93.98 | 1.89 | 0.74 | 0.74 |
| 2.13 | 46.86 | 75.11 | 1.23 | 92.67 | 1.90 | 0.73 | 0.73 |
| 2.22 | 45.85 | 73.48 | 1.24 | 91.09 | 1.90 | 0.73 | 0.73 |
| 2.27 | 44.97 | 72.07 | 1.24 | 89.70 | 1.91 | 0.73 | 0.73 |
| 2.33 | 44.77 | 71.74 | 1.24 | 89.16 | 1.91 | 0.73 | 0.73 |
| 2.42 | 45.44 | 72.81 | 1.24 | 89.96 | 1.90 | 0.73 | 0.73 |
| 2.48 | 46.73 | 74.86 | 1.22 | 91.66 | 1.88 | 0.73 | 0.73 |
| 2.56 | 48.41 | 77.57 | 1.21 | 94.03 | 1.86 | 0.74 | 0.74 |
| 2.65 | 49.43 | 79.19 | 1.21 | 95.47 | 1.86 | 0.74 | 0.74 |
| 2.72 | 48.72 | 78.04 | 1.21 | 94.74 | 1.87 | 0.74 | 0.74 |
| 2.80 | 46.02 | 73.70 | 1.23 | 90.99 | 1.90 | 0.73 | 0.73 |
| 2.89 | 42.44 | 67.94 | 1.26 | 85.67 | 1.94 | 0.72 | 0.72 |
| 2.94 | 39.03 | 62.46 | 1.29 | 80.64 | 1.98 | 0.62 | 0.71 |
| 3.04 | 35.90 | 57.42 | 1.32 | 76.04 | 2.02 | 0.42 | 0.70 |
| 3.14 | 32.32 | 51.66 | 1.37 | 70.91 | 2.07 | 0.27 | 0.69 |
| 3.23 | 29.01 | 46.34 | 1.42 | 65.97 | 2.10 | 0.18 | 0.67 |
| 3.31 | 25.74 | 41.07 | 1.50 | 61.64 | 2.15 | 0.13 | 0.66 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 3.37 | 23.04 | 36.73 | 1.59 | 58.33 | 2.19 | 0.10 | 0.65 |
| 3.48 | 20.38 | 32.44 | 1.71 | 55.35 | 2.23 | 0.08 | 0.64 |
| 3.57 | 18.79 | 29.89 | 1.76 | 52.71 | 2.25 | 0.06 | 0.63 |
| 3.65 | 18.02 | 28.64 | 1.78 | 50.93 | 2.26 | 0.06 | 0.63 |
| 3.71 | 18.02 | 28.64 | 1.77 | 50.70 | 2.26 | 0.06 | 0.63 |
| 3.82 | 18.63 | 29.60 | 1.77 | 52.47 | 2.26 | 0.06 | 0.63 |
| 3.91 | 20.18 | 32.09 | 1.71 | 54.73 | 2.23 | 0.07 | 0.64 |
| 4.00 | 22.81 | 36.30 | 1.60 | 58.22 | 2.20 | 0.10 | 0.65 |
| 4.10 | 26.38 | 42.04 | 1.41 | 59.10 | 2.09 | 0.11 | 0.65 |
| 4.19 | 31.21 | 49.79 | 1.00 | 49.79 | 1.98 | 0.05 | 0.62 |
| 4.26 | 37.92 | 60.57 | 1.00 | 60.57 | 1.86 | 0.12 | 0.66 |
| 4.35 | 45.62 | 72.92 | 1.00 | 72.92 | 1.79 | 0.32 | 0.69 |
| 4.44 | 49.80 | 79.63 | 1.00 | 79.63 | 1.77 | 0.57 | 0.71 |
| 4.52 | 51.39 | 82.17 | 1.00 | 82.17 | 1.76 | 0.70 | 0.71 |
| 4.53 | 52.26 | 83.58 | 1.00 | 83.58 | 1.76 | 0.72 | 0.72 |
| 4.58 | 55.03 | 88.02 | 1.00 | 88.02 | 1.73 | 0.72 | 0.72 |
| 4.63 | 57.76 | 92.41 | 1.00 | 92.41 | 1.71 | 0.73 | 0.73 |
| 4.68 | 58.84 | 94.14 | 1.00 | 94.14 | 1.70 | 0.74 | 0.74 |
| 4.72 | 59.28 | 94.84 | 1.00 | 94.84 | 1.71 | 0.74 | 0.74 |
| 4.77 | 59.08 | 94.51 | 1.00 | 94.51 | 1.72 | 0.74 | 0.74 |
| 4.82 | 58.07 | 92.88 | 1.00 | 92.88 | 1.73 | 0.73 | 0.73 |
| 4.88 | 56.21 | 89.89 | 1.00 | 89.89 | 1.76 | 0.73 | 0.73 |
| 4.96 | 53.61 | 85.71 | 1.14 | 97.96 | 1.79 | 0.74 | 0.74 |
| 5.01 | 50.54 | 80.78 | 1.18 | 95.67 | 1.83 | 0.74 | 0.74 |
| 5.08 | 47.44 | 75.78 | 1.22 | 92.32 | 1.87 | 0.73 | 0.73 |
| 5.16 | 44.81 | 71.55 | 1.24 | 88.93 | 1.91 | 0.73 | 0.73 |
| 5.21 | 43.27 | 69.07 | 1.26 | 86.85 | 1.93 | 0.72 | 0.72 |
| 5.30 | 42.68 | 68.12 | 1.26 | 86.01 | 1.94 | 0.72 | 0.72 |
| 5.37 | 42.65 | 68.06 | 1.26 | 85.96 | 1.94 | 0.72 | 0.72 |
| 5.45 | 42.70 | 68.13 | 1.26 | 86.01 | 1.94 | 0.72 | 0.72 |
| 5.52 | 42.44 | 67.72 | 1.26 | 85.64 | 1.94 | 0.72 | 0.72 |
| 5.59 | 41.70 | 66.52 | 1.27 | 84.54 | 1.95 | 0.72 | 0.72 |
| 5.65 | 40.15 | 64.02 | 1.28 | 82.25 | 1.97 | 0.70 | 0.71 |
| 5.74 | 38.46 | 61.30 | 1.30 | 79.83 | 1.99 | 0.58 | 0.71 |
| 5.83 | 37.08 | 59.07 | 1.32 | 77.99 | 2.02 | 0.49 | 0.70 |
| 5.89 | 36.30 | 57.82 | 1.33 | 77.16 | 2.03 | 0.46 | 0.70 |
| 5.97 | 35.66 | 56.79 | 1.35 | 76.43 | 2.04 | 0.43 | 0.70 |
| 6.07 | 34.52 | 54.94 | 1.37 | 75.11 | 2.06 | 0.39 | 0.70 |
| 6.12 | 32.56 | 51.79 | 1.41 | 73.14 | 2.10 | 0.33 | 0.69 |
| 6.22 | 29.76 | 47.28 | 1.51 | 71.19 | 2.15 | 0.28 | 0.69 |
| 6.28 | 26.56 | 42.13 | 1.67 | 70.33 | 2.22 | 0.26 | 0.68 |
| 6.36 | 23.45 | 37.14 | 1.90 | 70.41 | 2.29 | 0.26 | 0.68 |
| 6.46 | 21.29 | 33.66 | 2.09 | 70.43 | 2.34 | 0.26 | 0.68 |
| 6.52 | 20.72 | 32.73 | 2.06 | 67.56 | 2.33 | 0.21 | 0.68 |
| 6.60 | 22.07 | 34.89 | 1.79 | 62.55 | 2.26 | 0.14 | 0.66 |
| 6.70 | 23.55 | 37.27 | 1.57 | 58.59 | 2.18 | 0.10 | 0.65 |
| 6.76 | 23.01 | 36.39 | 1.55 | 56.58 | 2.17 | 0.09 | 0.65 |
| 6.84 | 19.64 | 30.96 | 1.81 | 55.94 | 2.27 | 0.08 | 0.64 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 6.94 | 14.91 | 23.37 | 2.60 | 60.83 | 2.44 | 0.12 | 0.66 |
| 7.03 | 10.86 | 16.85 | 4.02 | 67.75 | 2.63 | 0.21 | 0.68 |
| 7.13 | 8.23 | 12.62 | 5.71 | 72.04 | 2.79 | 0.30 | 0.69 |
| 7.19 | 6.62 | 10.02 | 6.93 | 69.39 | 2.88 | 0.24 | 0.68 |
| 7.32 | 5.77 | 8.65 | 6.87 | 59.40 | 2.88 | 0.11 | 0.65 |
| 7.42 | 5.17 | 7.67 | 5.87 | 44.99 | 2.80 | 0.04 | 0.62 |
| 7.49 | 4.93 | 7.28 | 4.02 | 29.29 | 2.63 | 0.02 | 0.62 |
| 7.57 | 4.73 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 7.66 | 4.56 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 7.76 | 4.44 | 6.47 | 4.48 | 29.00 | 2.68 | 0.02 | 0.62 |
| 7.77 | 4.39 | 6.39 | 4.95 | 31.63 | 2.72 | 0.02 | 0.62 |
| 7.78 | 4.42 | 6.44 | 5.05 | 32.53 | 2.73 | 0.02 | 0.62 |
| 7.82 | 4.44 | 6.47 | 5.36 | 34.69 | 2.76 | 0.02 | 0.62 |
| 7.87 | 4.45 | 6.49 | 5.86 | 38.07 | 2.80 | 0.03 | 0.62 |
| 7.92 | 4.45 | 6.49 | 6.45 | 41.83 | 2.85 | 0.03 | 0.62 |
| 7.97 | 4.49 | 6.54 | 6.96 | 45.53 | 2.88 | 0.04 | 0.62 |
| 8.01 | 4.59 | 6.70 | 7.41 | 49.66 | 2.91 | 0.05 | 0.62 |
| 8.06 | 4.76 | 6.97 | 7.58 | 52.81 | 2.92 | 0.06 | 0.63 |
| 8.11 | 4.93 | 7.24 | 7.65 | 55.42 | 2.93 | 0.08 | 0.64 |
| 8.20 | 5.06 | 7.45 | 7.68 | 57.24 | 2.93 | 0.09 | 0.65 |
| 8.26 | 5.16 | 7.60 | 7.84 | 59.63 | 2.94 | 0.11 | 0.66 |
| 8.35 | 5.23 | 7.70 | 7.98 | 61.50 | 2.95 | 0.13 | 0.66 |
| 8.40 | 5.30 | 7.81 | 8.02 | 62.65 | 2.95 | 0.14 | 0.66 |
| 8.49 | 5.37 | 7.91 | 7.96 | 62.99 | 2.95 | 0.14 | 0.66 |
| 8.54 | 5.51 | 8.13 | 7.81 | 63.54 | 2.94 | 0.15 | 0.67 |
| 8.64 | 5.71 | 8.45 | 7.58 | 64.06 | 2.93 | 0.16 | 0.67 |
| 8.69 | 5.91 | 8.77 | 7.37 | 64.63 | 2.91 | 0.16 | 0.67 |
| 8.79 | 6.18 | 9.19 | 7.46 | 68.57 | 2.92 | 0.23 | 0.68 |
| 8.84 | 6.48 | 9.68 | 7.59 | 73.49 | 2.93 | 0.34 | 0.69 |
| 8.93 | 6.89 | 10.32 | 7.50 | 77.37 | 2.92 | 0.47 | 0.70 |
| 9.03 | 7.13 | 10.69 | 7.46 | 79.83 | 2.92 | 0.58 | 0.71 |
| 9.08 | 7.21 | 10.83 | 7.52 | 81.47 | 2.92 | 0.66 | 0.71 |
| 9.11 | 7.16 | 10.75 | 7.78 | 83.66 | 2.94 | 0.72 | 0.72 |
| 9.12 | 7.13 | 10.69 | 7.89 | 84.32 | 2.95 | 0.72 | 0.72 |
| 9.17 | 7.07 | 10.60 | 8.03 | 85.13 | 2.95 | 0.72 | 0.72 |
| 9.22 | 7.12 | 10.67 | 8.09 | 86.32 | 2.96 | 0.72 | 0.72 |
| 9.31 | 6.92 | 10.34 | 8.56 | 88.56 | 2.99 | 0.73 | 0.73 |
| 9.36 | 7.16 | 10.72 | 8.37 | 89.76 | 2.98 | 0.73 | 0.73 |
| 9.40 | 7.46 | 11.20 | 8.04 | 90.10 | 2.95 | 0.73 | 0.73 |
| 9.46 | 8.14 | 12.28 | 7.25 | 89.07 | 2.90 | 0.73 | 0.73 |
| 9.51 | 8.47 | 12.82 | 6.92 | 88.75 | 2.88 | 0.73 | 0.73 |
| 9.55 | 8.78 | 13.30 | 6.70 | 89.10 | 2.86 | 0.73 | 0.73 |
| 9.61 | 8.98 | 13.63 | 6.65 | 90.65 | 2.86 | 0.73 | 0.73 |
| 9.69 | 9.12 | 13.84 | 6.73 | 93.09 | 2.87 | 0.73 | 0.73 |
| 9.74 | 9.18 | 13.94 | 6.87 | 95.71 | 2.88 | 0.74 | 0.74 |
| 9.81 | 9.39 | 14.26 | 6.85 | 97.70 | 2.88 | 0.74 | 0.74 |
| 9.89 | 9.76 | 14.85 | 6.62 | 98.33 | 2.86 | 0.74 | 0.74 |
| 9.94 | 10.06 | 15.33 | 6.42 | 98.43 | 2.84 | 0.75 | 0.75 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 10.03 | 10.23 | 15.59 | 6.28 | 97.94 | 2.83 | 0.74 | 0.74 |
| 10.08 | 10.23 | 15.59 | 5.91 | 92.18 | 2.80 | 0.73 | 0.73 |
| 10.18 | 10.23 | 15.58 | 5.40 | 84.12 | 2.76 | 0.72 | 0.72 |
| 10.23 | 10.23 | 15.58 | 5.05 | 78.62 | 2.73 | 0.52 | 0.70 |
| 10.33 | 10.23 | 15.57 | 5.17 | 80.55 | 2.74 | 0.61 | 0.71 |
| 10.40 | 10.23 | 15.56 | 5.54 | 86.20 | 2.77 | 0.72 | 0.72 |
| 10.47 | 10.08 | 15.32 | 5.91 | 90.44 | 2.80 | 0.73 | 0.73 |
| 10.51 | 10.06 | 15.28 | 6.18 | 94.42 | 2.83 | 0.74 | 0.74 |
| 10.56 | 10.03 | 15.23 | 6.41 | 97.63 | 2.84 | 0.74 | 0.74 |
| 10.61 | 10.21 | 15.52 | 6.51 | 100.97 | 2.85 | 0.75 | 0.75 |
| 10.67 | 10.16 | 15.43 | 6.88 | 106.14 | 2.88 | 0.76 | 0.76 |
| 10.75 | 10.13 | 15.37 | 7.21 | 110.80 | 2.90 | 0.77 | 0.77 |
| 10.80 | 9.99 | 15.15 | 7.50 | 113.70 | 2.92 | 0.77 | 0.77 |
| 10.85 | 9.89 | 14.99 | 7.63 | 114.35 | 2.93 | 0.77 | 0.77 |
| 10.90 | 9.72 | 14.71 | 7.82 | 115.05 | 2.94 | 0.77 | 0.77 |
| 11.00 | 9.45 | 14.27 | 8.13 | 116.05 | 2.96 | 0.78 | 0.78 |
| 11.05 | 9.05 | 13.61 | 8.55 | 116.32 | 2.99 | 0.78 | 0.78 |
| 11.14 | 8.61 | 12.90 | 9.04 | 116.64 | 3.01 | 0.62 | 0.99 |
| 11.21 | 8.27 | 12.36 | 9.53 | 117.80 | 3.04 | 0.62 | 0.94 |
| 11.29 | 8.24 | 12.30 | 9.66 | 118.79 | 3.05 | 0.65 | 0.93 |
| 11.38 | 8.41 | 12.56 | 9.53 | 119.67 | 3.04 | 0.63 | 0.94 |
| 11.46 | 8.68 | 12.98 | 9.18 | 119.19 | 3.02 | 0.64 | 0.97 |
| 11.52 | 8.88 | 13.30 | 8.96 | 119.26 | 3.01 | 0.64 | 0.98 |
| 11.60 | 8.98 | 13.46 | 8.85 | 119.12 | 3.00 | 0.64 | 0.99 |
| 11.67 | 9.05 | 13.56 | 8.79 | 119.24 | 3.00 | 0.64 | 0.99 |
| 11.72 | 9.12 | 13.67 | 8.75 | 119.52 | 3.00 | 0.78 | 0.78 |
| 11.81 | 9.32 | 13.98 | 8.54 | 119.37 | 2.99 | 0.78 | 0.78 |
| 11.86 | 9.35 | 14.03 | 8.52 | 119.54 | 2.98 | 0.78 | 0.78 |
| 11.96 | 9.42 | 14.07 | 8.48 | 119.37 | 2.98 | 0.78 | 0.78 |
| 12.01 | 9.45 | 14.06 | 8.50 | 119.58 | 2.98 | 0.78 | 0.78 |
| 12.10 | 9.69 | 13.55 | 8.25 | 111.75 | 2.97 | 0.77 | 0.77 |
| 12.16 | 10.07 | 13.97 | 7.41 | 103.51 | 2.91 | 0.75 | 0.75 |
| 12.24 | 10.47 | 14.38 | 6.85 | 98.49 | 2.88 | 0.75 | 0.75 |
| 12.32 | 10.87 | 14.89 | 6.86 | 102.09 | 2.88 | 0.75 | 0.75 |
| 12.39 | 11.18 | 15.29 | 7.16 | 109.53 | 2.90 | 0.77 | 0.77 |
| 12.48 | 10.64 | 14.47 | 7.97 | 115.36 | 2.95 | 0.78 | 0.78 |
| 12.50 | 10.23 | 14.64 | 8.30 | 121.50 | 2.97 | 0.79 | 0.79 |
| 12.54 | 10.74 | 14.58 | 8.20 | 119.55 | 2.96 | 0.78 | 0.78 |
| 12.64 | 12.36 | 16.65 | 7.01 | 116.68 | 2.89 | 0.78 | 0.78 |
| 12.68 | 14.04 | 18.79 | 6.01 | 113.05 | 2.81 | 0.77 | 0.77 |
| 12.77 | 14.72 | 19.54 | 5.64 | 110.30 | 2.78 | 0.77 | 0.77 |
| 12.82 | 14.75 | 19.48 | 5.55 | 108.15 | 2.78 | 0.76 | 0.76 |
| 12.89 | 14.21 | 18.67 | 5.71 | 106.60 | 2.79 | 0.76 | 0.76 |
| 12.97 | 13.37 | 17.49 | 6.13 | 107.25 | 2.82 | 0.76 | 0.76 |
| 13.03 | 12.49 | 16.30 | 6.66 | 108.51 | 2.86 | 0.76 | 0.76 |
| 13.12 | 11.72 | 15.20 | 7.22 | 109.85 | 2.90 | 0.77 | 0.77 |
| 13.16 | 11.21 | 14.50 | 7.58 | 109.96 | 2.93 | 0.77 | 0.77 |
| 13.26 | 10.91 | 13.99 | 7.68 | 107.43 | 2.93 | 0.76 | 0.76 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 13.34 | 10.84 | 13.79 | 7.45 | 102.72 | 2.92 | 0.75 | 0.75 |
| 13.41 | 10.74 | 13.56 | 7.18 | 97.27 | 2.90 | 0.74 | 0.74 |
| 13.50 | 10.60 | 13.27 | 7.10 | 94.19 | 2.89 | 0.74 | 0.74 |
| 13.60 | 10.33 | 12.84 | 7.26 | 93.25 | 2.90 | 0.74 | 0.74 |
| 13.65 | 10.13 | 12.55 | 7.49 | 94.05 | 2.92 | 0.74 | 0.74 |
| 13.75 | 10.03 | 12.35 | 7.71 | 95.17 | 2.93 | 0.74 | 0.74 |
| 13.80 | 10.10 | 12.37 | 7.57 | 93.67 | 2.92 | 0.74 | 0.74 |
| 13.89 | 10.23 | 12.47 | 7.55 | 94.18 | 2.92 | 0.74 | 0.74 |
| 13.94 | 10.63 | 12.95 | 7.46 | 96.59 | 2.92 | 0.74 | 0.74 |
| 14.03 | 10.80 | 13.13 | 7.91 | 103.87 | 2.95 | 0.76 | 0.76 |
| 14.11 | 11.23 | 13.59 | 7.98 | 108.45 | 2.95 | 0.76 | 0.76 |
| 14.13 | 11.53 | 13.97 | 7.99 | 111.61 | 2.95 | 0.77 | 0.77 |
| 14.18 | 12.27 | 14.85 | 7.55 | 112.19 | 2.92 | 0.77 | 0.77 |
| 14.22 | 12.83 | 15.50 | 7.35 | 113.98 | 2.91 | 0.77 | 0.77 |
| 14.28 | 13.44 | 16.19 | 7.18 | 116.20 | 2.90 | 0.78 | 0.78 |
| 14.37 | 14.01 | 16.81 | 7.06 | 118.62 | 2.89 | 0.78 | 0.78 |
| 14.44 | 14.79 | 17.68 | 6.80 | 120.24 | 2.87 | 0.78 | 0.78 |
| 14.51 | 15.63 | 18.60 | 6.50 | 120.95 | 2.85 | 0.78 | 0.78 |
| 14.60 | 16.31 | 19.30 | 6.30 | 121.55 | 2.83 | 0.79 | 0.79 |
| 14.65 | 16.58 | 19.57 | 6.28 | 122.89 | 2.83 | 0.79 | 0.79 |
| 14.75 | 16.56 | 19.44 | 6.39 | 124.23 | 2.84 | 0.79 | 0.79 |
| 14.85 | 16.48 | 19.22 | 6.50 | 124.95 | 2.85 | 0.79 | 0.79 |
| 14.91 | 16.44 | 19.11 | 6.54 | 124.89 | 2.85 | 0.79 | 0.79 |
| 14.99 | 17.00 | 19.64 | 6.25 | 122.73 | 2.83 | 0.79 | 0.79 |
| 15.09 | 18.30 | 21.01 | 5.69 | 119.59 | 2.79 | 0.78 | 0.78 |
| 15.18 | 20.29 | 23.13 | 4.94 | 114.33 | 2.72 | 0.77 | 0.77 |
| 15.25 | 22.28 | 25.25 | 4.26 | 107.53 | 2.66 | 0.76 | 0.76 |
| 15.33 | 24.50 | 27.58 | 3.60 | 99.22 | 2.58 | 0.75 | 0.75 |
| 15.43 | 27.51 | 30.70 | 2.96 | 90.92 | 2.50 | 0.73 | 0.73 |
| 15.51 | 31.32 | 34.70 | 2.45 | 84.95 | 2.41 | 0.72 | 0.72 |
| 15.59 | 34.63 | 38.13 | 2.14 | 81.77 | 2.35 | 0.68 | 0.71 |
| 15.67 | 36.18 | 39.65 | 2.03 | 80.65 | 2.33 | 0.62 | 0.71 |
| 15.76 | 35.13 | 38.36 | 2.14 | 81.98 | 2.35 | 0.69 | 0.71 |
| 15.86 | 32.03 | 34.86 | 2.45 | 85.36 | 2.41 | 0.72 | 0.72 |
| 15.95 | 27.64 | 30.01 | 3.03 | 90.95 | 2.51 | 0.73 | 0.73 |
| 16.05 | 23.08 | 24.94 | 3.85 | 95.91 | 2.61 | 0.74 | 0.74 |
| 16.14 | 19.31 | 20.73 | 4.79 | 99.32 | 2.71 | 0.75 | 0.75 |
| 16.20 | 16.85 | 17.98 | 5.55 | 99.84 | 2.78 | 0.75 | 0.75 |
| 16.28 | 15.33 | 16.24 | 6.13 | 99.52 | 2.82 | 0.75 | 0.75 |
| 16.34 | 14.21 | 14.97 | 6.52 | 97.62 | 2.85 | 0.74 | 0.74 |
| 16.44 | 12.93 | 13.48 | 7.12 | 95.96 | 2.89 | 0.74 | 0.74 |
| 16.50 | 11.61 | 12.00 | 7.73 | 92.73 | 2.93 | 0.73 | 0.73 |
| 16.58 | 10.17 | 10.54 | 8.19 | 86.31 | 2.96 | 0.72 | 0.72 |
| 16.73 | 8.75 | 8.85 | 8.43 | 74.57 | 2.98 | 0.37 | 0.69 |
| 16.82 | 7.60 | 7.51 | 8.14 | 61.14 | 2.96 | 0.12 | 0.66 |
| 16.92 | 7.06 | 6.86 | 8.35 | 57.29 | 2.97 | 0.09 | 0.65 |
| 17.01 | 6.56 | 6.26 | 10.33 | 64.67 | 3.09 | 0.13 | 0.45 |
| 17.11 | 6.20 | 5.84 | 12.54 | 73.17 | 3.19 | 0.19 | 0.42 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 17.12 | 5.73 | 5.31 | 14.74 | 78.30 | 3.28 | 0.20 | 0.38 |
| 17.14 | 6.34 | 5.97 | 13.44 | 80.31 | 3.23 | 0.21 | 0.43 |
| 17.19 | 7.13 | 6.82 | 12.15 | 82.92 | 3.17 | 0.24 | 0.49 |
| 17.28 | 7.94 | 7.67 | 11.16 | 85.58 | 3.13 | 0.27 | 0.55 |
| 17.33 | 8.01 | 7.71 | 11.48 | 88.52 | 3.14 | 0.29 | 0.55 |
| 17.43 | 7.87 | 7.52 | 11.93 | 89.67 | 3.16 | 0.30 | 0.54 |
| 17.47 | 7.74 | 7.35 | 12.03 | 88.37 | 3.17 | 0.29 | 0.52 |
| 17.57 | 7.57 | 7.12 | 11.95 | 85.14 | 3.16 | 0.25 | 0.51 |
| 17.65 | 7.47 | 6.98 | 11.70 | 81.63 | 3.15 | 0.23 | 0.50 |
| 17.72 | 7.40 | 6.88 | 11.84 | 81.46 | 3.16 | 0.22 | 0.49 |
| 17.81 | 7.57 | 7.02 | 11.86 | 83.22 | 3.16 | 0.25 | 0.50 |
| 17.86 | 7.87 | 7.32 | 11.98 | 87.65 | 3.17 | 0.27 | 0.52 |
| 17.95 | 8.31 | 7.73 | 11.95 | 92.32 | 3.16 | 0.32 | 0.55 |
| 18.05 | 8.78 | 8.18 | 11.81 | 96.52 | 3.16 | 0.36 | 0.58 |
| 18.10 | 9.22 | 8.61 | 11.67 | 100.43 | 3.15 | 0.38 | 0.61 |
| 18.20 | 9.66 | 9.01 | 11.52 | 103.80 | 3.14 | 0.42 | 0.64 |
| 18.30 | 9.90 | 9.20 | 11.60 | 106.76 | 3.15 | 0.46 | 0.66 |
| 18.39 | 10.13 | 9.38 | 11.50 | 107.91 | 3.14 | 0.46 | 0.67 |
| 18.48 | 10.27 | 9.47 | 11.38 | 107.71 | 3.14 | 0.46 | 0.68 |
| 18.58 | 10.30 | 9.44 | 11.38 | 107.46 | 3.14 | 0.46 | 0.67 |
| 18.66 | 10.20 | 9.30 | 11.49 | 106.87 | 3.14 | 0.45 | 0.66 |
| 18.74 | 10.07 | 9.12 | 11.49 | 104.74 | 3.14 | 0.44 | 0.65 |
| 18.87 | 9.90 | 8.88 | 10.73 | 95.26 | 3.11 | 0.39 | 0.63 |
| 18.97 | 9.66 | 8.59 | 10.09 | 86.69 | 3.07 | 0.22 | 0.61 |
| 19.06 | 9.56 | 8.45 | 9.58 | 80.90 | 3.05 | 0.24 | 0.60 |
| 19.16 | 9.83 | 8.66 | 9.84 | 85.25 | 3.06 | 0.27 | 0.62 |
| 19.25 | 10.13 | 8.91 | 9.93 | 88.50 | 3.06 | 0.31 | 0.64 |
| 19.27 | 10.23 | 9.00 | 10.18 | 91.69 | 3.08 | 0.31 | 0.64 |
| 19.30 | 10.37 | 9.12 | 10.39 | 94.70 | 3.09 | 0.34 | 0.65 |
| 19.34 | 10.57 | 9.29 | 10.57 | 98.19 | 3.10 | 0.38 | 0.66 |
| 19.39 | 10.84 | 9.53 | 10.50 | 100.00 | 3.09 | 0.40 | 0.68 |
| 19.49 | 10.78 | 9.41 | 10.57 | 99.51 | 3.10 | 0.39 | 0.67 |
| 19.55 | 10.51 | 9.12 | 10.70 | 97.54 | 3.10 | 0.37 | 0.65 |
| 19.63 | 10.17 | 8.75 | 10.86 | 95.04 | 3.11 | 0.34 | 0.63 |
| 19.68 | 9.87 | 8.43 | 10.91 | 92.04 | 3.11 | 0.32 | 0.60 |
| 19.74 | 9.77 | 8.31 | 10.69 | 88.83 | 3.10 | 0.29 | 0.59 |
| 19.83 | 9.73 | 8.24 | 10.61 | 87.40 | 3.10 | 0.27 | 0.59 |
| 19.87 | 9.73 | 8.22 | 10.55 | 86.67 | 3.10 | 0.29 | 0.59 |
| 19.94 | 9.73 | 8.19 | 10.80 | 88.39 | 3.11 | 0.27 | 0.58 |
| 20.02 | 9.80 | 8.21 | 11.04 | 90.64 | 3.12 | 0.31 | 0.59 |
| 20.07 | 10.17 | 8.54 | 11.28 | 96.33 | 3.13 | 0.34 | 0.61 |
| 20.17 | 11.42 | 9.65 | 10.38 | 100.21 | 3.09 | 0.41 | 0.69 |
| 20.21 | 14.18 | 12.20 | 8.30 | 101.25 | 2.97 | 0.75 | 0.75 |
| 20.28 | 18.74 | 16.43 | 5.92 | 97.16 | 2.80 | 0.74 | 0.74 |
| 20.36 | 24.88 | 22.08 | 4.11 | 90.84 | 2.64 | 0.73 | 0.73 |
| 20.41 | 31.73 | 28.40 | 3.02 | 85.89 | 2.51 | 0.72 | 0.72 |
| 20.48 | 38.64 | 34.74 | 2.39 | 83.15 | 2.40 | 0.71 | 0.71 |
| 20.55 | 44.99 | 40.52 | 2.02 | 82.00 | 2.33 | 0.69 | 0.71 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 20.60 | 49.88 | 44.99 | 1.82 | 81.90 | 2.27 | 0.68 | 0.71 |
| 20.70 | 52.55 | 47.28 | 1.74 | 82.23 | 2.25 | 0.70 | 0.71 |
| 20.74 | 52.68 | 47.32 | 1.75 | 82.97 | 2.25 | 0.71 | 0.71 |
| 20.79 | 51.17 | 45.83 | 1.84 | 84.31 | 2.28 | 0.72 | 0.72 |
| 20.89 | 48.70 | 43.39 | 2.03 | 87.95 | 2.33 | 0.72 | 0.72 |
| 20.96 | 46.86 | 41.58 | 2.06 | 85.66 | 2.33 | 0.72 | 0.72 |
| 21.04 | 45.83 | 40.52 | 2.09 | 84.84 | 2.34 | 0.72 | 0.72 |
| 21.13 | 45.80 | 40.36 | 2.05 | 82.71 | 2.33 | 0.71 | 0.71 |
| 21.22 | 49.22 | 43.31 | 1.97 | 85.52 | 2.31 | 0.72 | 0.72 |
| 21.29 | 52.71 | 46.38 | 1.86 | 86.23 | 2.28 | 0.72 | 0.72 |
| 21.35 | 62.13 | 54.84 | 1.58 | 86.56 | 2.19 | 0.72 | 0.72 |
| 21.37 | 71.37 | 63.21 | 1.42 | 89.97 | 2.10 | 0.73 | 0.73 |
| 21.42 | 83.72 | 74.37 | 1.31 | 97.64 | 2.01 | 0.74 | 0.74 |
| 21.47 | 92.73 | 82.47 | 1.27 | 104.48 | 1.95 | 0.76 | 0.76 |
| 21.48 | 100.66 | 89.69 | 1.23 | 110.65 | 1.90 | 0.77 | 0.77 |
| 21.52 | 107.37 | 95.73 | 1.20 | 115.32 | 1.85 | 0.78 | 0.78 |
| 21.57 | 113.24 | 100.98 | 1.17 | 118.63 | 1.82 | 0.78 | 0.78 |
| 21.62 | 118.81 | 105.91 | 1.14 | 120.85 | 1.79 | 0.78 | 0.78 |
| 21.66 | 124.00 | 110.52 | 1.10 | 122.11 | 1.76 | 0.79 | 0.79 |
| 21.71 | 128.79 | 114.75 | 1.07 | 122.79 | 1.74 | 0.79 | 0.79 |
| 21.76 | 132.64 | 118.10 | 1.04 | 123.42 | 1.73 | 0.79 | 0.79 |
| 21.81 | 135.34 | 120.38 | 1.03 | 124.51 | 1.72 | 0.79 | 0.79 |
| 21.85 | 136.99 | 121.70 | 1.04 | 126.15 | 1.72 | 0.79 | 0.79 |
| 21.91 | 137.80 | 122.24 | 1.05 | 127.87 | 1.73 | 0.80 | 0.80 |
| 21.95 | 138.11 | 122.32 | 1.06 | 129.40 | 1.73 | 0.80 | 0.80 |
| 22.00 | 138.24 | 122.26 | 1.07 | 130.49 | 1.74 | 0.80 | 0.80 |
| 22.05 | 138.18 | 122.02 | 1.08 | 131.33 | 1.75 | 0.80 | 0.80 |
| 22.10 | 138.24 | 121.90 | 1.08 | 132.00 | 1.75 | 0.80 | 0.80 |
| 22.15 | 138.31 | 121.77 | 1.09 | 132.56 | 1.75 | 0.80 | 0.80 |
| 22.19 | 138.68 | 121.94 | 1.09 | 133.12 | 1.75 | 0.80 | 0.80 |
| 22.24 | 139.25 | 122.24 | 1.11 | 135.35 | 1.76 | 0.81 | 0.81 |
| 22.29 | 139.86 | 122.58 | 1.11 | 136.60 | 1.77 | 0.81 | 0.81 |
| 22.34 | 140.20 | 122.70 | 1.12 | 137.16 | 1.77 | 0.81 | 0.81 |
| 22.39 | 140.06 | 122.45 | 1.11 | 135.89 | 1.77 | 0.81 | 0.81 |
| 22.43 | 139.42 | 121.72 | 1.11 | 135.26 | 1.77 | 0.81 | 0.81 |
| 22.48 | 138.34 | 120.56 | 1.12 | 135.08 | 1.77 | 0.81 | 0.81 |
| 22.55 | 136.79 | 118.95 | 1.13 | 134.76 | 1.78 | 0.81 | 0.81 |
| 22.62 | 130.08 | 112.68 | 1.17 | 131.90 | 1.82 | 0.80 | 0.80 |
| 22.63 | 127.95 | 110.75 | 1.18 | 130.57 | 1.83 | 0.80 | 0.80 |
| 22.72 | 125.56 | 108.31 | 1.19 | 128.61 | 1.83 | 0.80 | 0.80 |
| 22.77 | 128.09 | 110.46 | 1.17 | 129.57 | 1.82 | 0.80 | 0.80 |
| 22.83 | 126.13 | 108.51 | 1.19 | 128.59 | 1.83 | 0.80 | 0.80 |
| 22.91 | 124.21 | 106.52 | 1.20 | 127.55 | 1.85 | 0.79 | 0.79 |
| 22.96 | 121.74 | 104.15 | 1.21 | 126.09 | 1.86 | 0.79 | 0.79 |
| 23.02 | 118.20 | 100.84 | 1.22 | 123.45 | 1.88 | 0.79 | 0.79 |
| 23.10 | 113.85 | 96.74 | 1.24 | 119.96 | 1.90 | 0.78 | 0.78 |
| 23.16 | 108.42 | 91.79 | 1.26 | 115.60 | 1.93 | 0.78 | 0.78 |
| 23.20 | 102.21 | 86.20 | 1.28 | 110.62 | 1.97 | 0.77 | 0.77 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 23.26 | 95.46 | 80.15 | 1.31 | 105.23 | 2.01 | 0.76 | 0.76 |
| 23.35 | 88.68 | 74.00 | 1.36 | 100.36 | 2.05 | 0.75 | 0.75 |
| 23.39 | 81.66 | 67.80 | 1.42 | 95.97 | 2.10 | 0.74 | 0.74 |
| 23.48 | 74.68 | 61.55 | 1.51 | 93.11 | 2.15 | 0.73 | 0.73 |
| 23.54 | 68.33 | 55.99 | 1.61 | 90.41 | 2.20 | 0.73 | 0.73 |
| 23.63 | 63.44 | 51.67 | 1.69 | 87.24 | 2.23 | 0.72 | 0.72 |
| 23.69 | 60.07 | 48.84 | 1.63 | 79.68 | 2.21 | 0.57 | 0.71 |
| 23.78 | 58.37 | 47.34 | 1.59 | 75.09 | 2.19 | 0.39 | 0.70 |
| 23.87 | 57.71 | 46.70 | 1.56 | 72.76 | 2.18 | 0.32 | 0.69 |
| 23.88 | 57.81 | 46.69 | 1.62 | 75.51 | 2.20 | 0.40 | 0.70 |
| 23.93 | 57.42 | 46.23 | 1.69 | 78.05 | 2.23 | 0.50 | 0.70 |
| 24.02 | 57.22 | 45.85 | 1.76 | 80.73 | 2.25 | 0.62 | 0.71 |
| 24.04 | 56.97 | 45.57 | 1.82 | 82.98 | 2.27 | 0.71 | 0.71 |
| 24.05 | 57.34 | 45.82 | 1.85 | 84.83 | 2.28 | 0.72 | 0.72 |
| 24.15 | 58.27 | 46.42 | 1.87 | 86.71 | 2.28 | 0.72 | 0.72 |
| 24.20 | 60.11 | 47.86 | 1.85 | 88.32 | 2.28 | 0.73 | 0.73 |
| 24.30 | 62.64 | 49.86 | 1.75 | 87.06 | 2.25 | 0.72 | 0.72 |
| 24.40 | 65.07 | 51.83 | 1.63 | 84.41 | 2.21 | 0.72 | 0.72 |
| 24.46 | 66.59 | 53.10 | 1.53 | 81.44 | 2.16 | 0.66 | 0.71 |
| 24.54 | 66.42 | 52.90 | 1.50 | 79.49 | 2.15 | 0.56 | 0.71 |
| 24.64 | 64.09 | 50.78 | 1.55 | 78.59 | 2.17 | 0.52 | 0.70 |
| 24.73 | 59.94 | 47.12 | 1.68 | 79.13 | 2.22 | 0.54 | 0.71 |
| 24.78 | 54.64 | 42.55 | 1.92 | 81.62 | 2.30 | 0.67 | 0.71 |
| 24.88 | 48.57 | 37.36 | 2.28 | 85.25 | 2.38 | 0.72 | 0.72 |
| 24.94 | 41.92 | 31.81 | 2.80 | 89.16 | 2.47 | 0.73 | 0.73 |
| 25.02 | 35.00 | 26.12 | 3.52 | 92.04 | 2.57 | 0.73 | 0.73 |
| 25.12 | 28.43 | 20.76 | 4.59 | 95.35 | 2.69 | 0.74 | 0.74 |
| 25.17 | 22.86 | 16.30 | 6.02 | 98.17 | 2.81 | 0.74 | 0.74 |
| 25.27 | 18.41 | 12.75 | 7.69 | 98.13 | 2.93 | 0.74 | 0.74 |
| 25.36 | 15.13 | 9.96 | 9.50 | 94.69 | 3.04 | 0.34 | 0.71 |
| 25.43 | 12.60 | 8.11 | 11.16 | 90.44 | 3.13 | 0.30 | 0.58 |
| 25.50 | 10.88 | 6.84 | 12.76 | 87.31 | 3.20 | 0.27 | 0.49 |
| 25.60 | 9.77 | 6.01 | 14.03 | 84.31 | 3.25 | 0.24 | 0.43 |
| 25.64 | 9.26 | 5.64 | 14.52 | 81.86 | 3.27 | 0.23 | 0.40 |
| 25.67 | 9.06 | 5.48 | 14.58 | 79.98 | 3.28 | 0.22 | 0.39 |
| 25.71 | 8.86 | 5.33 | 14.38 | 76.65 | 3.27 | 0.20 | 0.38 |
| 25.79 | 8.52 | 5.07 | 14.25 | 72.22 | 3.26 | 0.16 | 0.36 |
| 25.93 | 8.18 | 4.80 | 14.17 | 68.01 | 3.26 | 0.14 | 0.34 |
| 26.03 | 8.02 | 4.66 | 13.97 | 65.11 | 3.25 | 0.13 | 0.33 |
| 26.13 | 8.02 | 4.64 | 13.74 | 63.74 | 3.24 | 0.11 | 0.33 |
| 26.24 | 8.08 | 4.67 | 13.54 | 63.18 | 3.23 | 0.12 | 0.33 |
| 26.37 | 8.18 | 4.71 | 13.48 | 63.49 | 3.23 | 0.12 | 0.34 |
| 26.47 | 8.25 | 4.73 | 13.53 | 64.09 | 3.23 | 0.12 | 0.34 |
| 26.60 | 8.25 | 4.71 | 13.24 | 62.33 | 3.22 | 0.12 | 0.34 |
| 26.71 | 8.38 | 4.78 | 12.59 | 60.15 | 3.19 | 0.09 | 0.34 |
| 26.85 | 8.75 | 5.00 | 11.78 | 58.94 | 3.16 | 0.09 | 0.36 |
| 26.95 | 8.96 | 5.12 | 12.24 | 62.69 | 3.18 | 0.11 | 0.37 |
| 27.04 | 9.60 | 5.54 | 12.21 | 67.66 | 3.18 | 0.15 | 0.40 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 27.09 | 10.14 | 5.90 | 12.33 | 72.68 | 3.18 | 0.17 | 0.42 |
| 27.19 | 10.95 | 6.42 | 11.76 | 75.49 | 3.16 | 0.20 | 0.46 |
| 27.23 | 11.18 | 6.56 | 11.88 | 78.01 | 3.16 | 0.21 | 0.47 |
| 27.33 | 11.42 | 6.70 | 11.98 | 80.22 | 3.17 | 0.22 | 0.48 |
| 27.40 | 11.76 | 6.91 | 11.94 | 82.48 | 3.16 | 0.24 | 0.49 |
| 27.47 | 12.30 | 7.25 | 11.72 | 84.94 | 3.15 | 0.25 | 0.52 |
| 27.57 | 12.97 | 7.66 | 11.34 | 86.93 | 3.14 | 0.28 | 0.55 |
| 27.66 | 13.85 | 8.22 | 10.99 | 90.36 | 3.12 | 0.30 | 0.59 |
| 27.77 | 14.96 | 8.93 | 10.64 | 94.93 | 3.10 | 0.34 | 0.64 |
| 27.86 | 16.28 | 9.76 | 10.29 | 100.42 | 3.08 | 0.40 | 0.70 |
| 27.96 | 17.39 | 10.45 | 10.06 | 105.14 | 3.07 | 0.45 | 0.75 |
| 28.06 | 17.73 | 10.63 | 10.22 | 108.70 | 3.08 | 0.49 | 0.76 |
| 28.15 | 17.29 | 10.31 | 10.64 | 109.63 | 3.10 | 0.50 | 0.74 |
| 28.25 | 17.04 | 10.10 | 10.32 | 104.18 | 3.08 | 0.47 | 0.72 |
| 28.34 | 16.50 | 9.71 | 10.12 | 98.29 | 3.07 | 0.34 | 0.69 |
| 28.44 | 16.94 | 9.96 | 9.46 | 94.21 | 3.04 | 0.34 | 0.71 |
| 28.54 | 16.11 | 9.38 | 10.45 | 98.03 | 3.09 | 0.38 | 0.67 |
| 28.62 | 17.46 | 10.22 | 9.90 | 101.19 | 3.06 | 0.41 | 0.73 |
| 28.71 | 18.34 | 10.74 | 9.72 | 104.45 | 3.05 | 0.45 | 0.77 |
| 28.77 | 20.26 | 11.95 | 8.92 | 106.63 | 3.01 | 0.48 | 0.85 |
| 28.86 | 20.73 | 12.21 | 8.93 | 109.00 | 3.01 | 0.51 | 0.87 |
| 28.91 | 21.34 | 12.56 | 8.78 | 110.37 | 3.00 | 0.52 | 0.90 |
| 28.97 | 22.04 | 12.99 | 8.63 | 112.06 | 2.99 | 0.77 | 0.77 |
| 29.04 | 22.92 | 13.50 | 8.45 | 114.13 | 2.98 | 0.77 | 0.77 |
| 29.10 | 23.97 | 14.13 | 8.26 | 116.69 | 2.97 | 0.78 | 0.78 |
| 29.15 | 25.15 | 14.85 | 8.08 | 120.01 | 2.96 | 0.78 | 0.78 |
| 29.25 | 26.40 | 16.30 | 7.69 | 125.36 | 2.93 | 0.79 | 0.79 |
| 29.34 | 27.38 | 16.91 | 7.60 | 128.48 | 2.93 | 0.80 | 0.80 |
| 29.38 | 27.75 | 17.12 | 7.63 | 130.55 | 2.93 | 0.80 | 0.80 |
| 29.48 | 27.72 | 16.25 | 7.97 | 129.55 | 2.95 | 0.80 | 0.80 |
| 29.55 | 27.48 | 16.06 | 8.07 | 129.61 | 2.96 | 0.80 | 0.80 |
| 29.63 | 27.41 | 16.75 | 7.61 | 127.50 | 2.93 | 0.79 | 0.79 |
| 29.72 | 28.43 | 17.61 | 6.01 | 105.80 | 2.81 | 0.76 | 0.76 |
| 29.82 | 31.56 | 20.09 | 3.98 | 79.94 | 2.63 | 0.58 | 0.71 |
| 29.88 | 36.83 | 24.31 | 2.33 | 56.65 | 2.39 | 0.09 | 0.65 |
| 29.96 | 45.23 | 30.47 | 1.87 | 56.98 | 2.29 | 0.09 | 0.65 |
| 30.06 | 49.92 | 33.83 | 1.75 | 59.16 | 2.25 | 0.11 | 0.65 |
| 30.13 | 54.67 | 37.29 | 1.64 | 60.99 | 2.21 | 0.12 | 0.66 |
| 30.18 | 56.02 | 38.21 | 1.63 | 62.30 | 2.21 | 0.14 | 0.66 |
| 30.28 | 58.72 | 40.06 | 1.61 | 64.44 | 2.20 | 0.16 | 0.67 |
| 30.37 | 59.53 | 40.40 | 1.67 | 67.53 | 2.22 | 0.21 | 0.68 |
| 30.47 | 60.51 | 40.85 | 1.74 | 71.05 | 2.25 | 0.28 | 0.69 |
| 30.57 | 63.28 | 42.69 | 1.73 | 73.87 | 2.24 | 0.35 | 0.69 |
| 30.66 | 67.26 | 45.46 | 1.67 | 76.12 | 2.22 | 0.42 | 0.70 |
| 30.74 | 71.34 | 48.33 | 1.62 | 78.31 | 2.20 | 0.51 | 0.70 |
| 30.82 | 74.51 | 50.51 | 1.59 | 80.52 | 2.19 | 0.61 | 0.71 |
| 30.90 | 76.30 | 51.60 | 1.61 | 82.93 | 2.20 | 0.71 | 0.71 |
| 31.01 | 76.90 | 51.74 | 1.66 | 85.67 | 2.22 | 0.72 | 0.72 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 31.10 | 77.02 | 51.51 | 1.74 | 89.47 | 2.24 | 0.73 | 0.73 |
| 31.19 | 77.06 | 51.19 | 1.84 | 93.96 | 2.28 | 0.74 | 0.74 |
| 31.28 | 77.57 | 51.24 | 1.92 | 98.21 | 2.30 | 0.74 | 0.74 |
| 31.35 | 78.53 | 51.70 | 1.97 | 101.82 | 2.31 | 0.75 | 0.75 |
| 31.43 | 80.52 | 52.90 | 1.98 | 104.59 | 2.31 | 0.76 | 0.76 |
| 31.53 | 83.11 | 54.53 | 1.97 | 107.28 | 2.31 | 0.76 | 0.76 |
| 31.60 | 85.91 | 56.74 | 1.78 | 101.10 | 2.26 | 0.75 | 0.75 |
| 31.67 | 88.07 | 58.52 | 1.64 | 95.74 | 2.21 | 0.74 | 0.74 |
| 31.77 | 89.46 | 59.74 | 1.53 | 91.18 | 2.16 | 0.73 | 0.73 |
| 31.84 | 89.86 | 59.77 | 1.56 | 93.40 | 2.18 | 0.74 | 0.74 |
| 31.91 | 86.18 | 56.78 | 1.68 | 95.19 | 2.22 | 0.74 | 0.74 |
| 31.98 | 79.10 | 51.41 | 1.89 | 97.23 | 2.29 | 0.74 | 0.74 |
| 31.98 | 77.21 | 49.95 | 1.99 | 99.23 | 2.32 | 0.75 | 0.75 |
| 32.04 | 78.73 | 50.91 | 1.98 | 100.65 | 2.31 | 0.75 | 0.75 |
| 32.12 | 82.68 | 53.56 | 1.91 | 102.19 | 2.30 | 0.75 | 0.75 |
| 32.16 | 80.04 | 51.46 | 2.05 | 105.63 | 2.33 | 0.76 | 0.76 |
| 32.27 | 75.66 | 48.11 | 2.26 | 108.77 | 2.38 | 0.76 | 0.76 |
| 32.33 | 70.76 | 44.53 | 2.50 | 111.51 | 2.42 | 0.77 | 0.77 |
| 32.41 | 66.31 | 41.33 | 2.72 | 112.40 | 2.46 | 0.77 | 0.77 |
| 32.50 | 61.79 | 38.14 | 2.93 | 111.66 | 2.49 | 0.77 | 0.77 |
| 32.58 | 56.66 | 34.61 | 3.18 | 110.12 | 2.53 | 0.77 | 0.77 |
| 32.66 | 50.22 | 30.23 | 3.59 | 108.68 | 2.58 | 0.76 | 0.76 |
| 32.74 | 43.30 | 25.56 | 4.22 | 107.79 | 2.65 | 0.76 | 0.76 |
| 32.84 | 36.12 | 20.76 | 5.20 | 107.96 | 2.75 | 0.76 | 0.76 |
| 32.90 | 29.88 | 16.68 | 6.45 | 107.62 | 2.85 | 0.76 | 0.76 |
| 32.98 | 24.92 | 12.71 | 8.19 | 104.08 | 2.96 | 0.76 | 0.76 |
| 33.08 | 20.77 | 10.40 | 9.80 | 101.84 | 3.06 | 0.43 | 0.74 |
| 33.14 | 17.05 | 8.34 | 11.93 | 99.50 | 3.16 | 0.40 | 0.60 |
| 33.22 | 14.12 | 6.71 | 14.31 | 96.06 | 3.27 | 0.36 | 0.48 |
| 33.32 | 12.19 | 5.64 | 16.21 | 91.43 | 3.34 | 0.30 | 0.40 |
| 33.37 | 11.28 | 5.14 | 16.60 | 85.28 | 3.35 | 0.27 | 0.37 |
| 33.47 | 11.05 | 4.99 | 16.37 | 81.70 | 3.34 | 0.22 | 0.36 |
| 33.56 | 11.66 | 5.30 | 15.06 | 79.85 | 3.30 | 0.23 | 0.38 |
| 33.63 | 12.43 | 5.71 | 14.04 | 80.15 | 3.26 | 0.23 | 0.41 |
| 33.71 | 12.67 | 5.82 | 13.47 | 78.37 | 3.23 | 0.23 | 0.42 |
| 33.81 | 11.99 | 5.44 | 13.27 | 72.19 | 3.22 | 0.19 | 0.39 |
| 33.90 | 11.05 | 4.92 | 13.35 | 65.65 | 3.23 | 0.11 | 0.35 |
| 33.95 | 10.31 | 4.51 | 13.36 | 60.28 | 3.23 | 0.11 | 0.32 |
| 34.04 | 10.07 | 4.37 | 13.69 | 59.84 | 3.24 | 0.11 | 0.31 |
| 34.14 | 9.87 | 4.25 | 14.01 | 59.54 | 3.25 | 0.10 | 0.30 |
| 34.17 | 9.81 | 4.21 | 14.16 | 59.63 | 3.26 | 0.11 | 0.30 |
| 34.20 | 10.07 | 4.35 | 13.78 | 59.92 | 3.24 | 0.11 | 0.31 |
| 34.26 | 10.38 | 4.50 | 13.36 | 60.14 | 3.23 | 0.11 | 0.32 |
| 34.35 | 10.61 | 4.61 | 12.99 | 59.91 | 3.21 | 0.11 | 0.33 |
| 34.43 | 10.41 | 4.49 | 13.24 | 59.45 | 3.22 | 0.11 | 0.32 |
| 34.49 | 10.27 | 4.41 | 13.28 | 58.59 | 3.22 | 0.10 | 0.32 |
| 34.59 | 10.17 | 4.34 | 13.18 | 57.25 | 3.22 | 0.10 | 0.31 |
| 34.69 | 10.07 | 4.28 | 13.07 | 55.91 | 3.21 | 0.09 | 0.31 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 34.73 | 9.90 | 4.18 | 13.12 | 54.88 | 3.22 | 0.08 | 0.30 |
| 34.83 | 9.80 | 4.12 | 13.19 | 54.34 | 3.22 | 0.08 | 0.29 |
| 34.90 | 9.74 | 4.07 | 13.37 | 54.48 | 3.23 | 0.08 | 0.29 |
| 34.98 | 9.84 | 4.12 | 13.48 | 55.47 | 3.23 | 0.09 | 0.29 |
| 35.07 | 10.14 | 4.26 | 13.68 | 58.28 | 3.24 | 0.10 | 0.30 |
| 35.16 | 10.58 | 4.47 | 14.49 | 64.79 | 3.27 | 0.12 | 0.32 |
| 35.26 | 11.29 | 4.82 | 15.85 | 76.48 | 3.32 | 0.19 | 0.34 |
| 35.33 | 13.25 | 5.82 | 15.42 | 89.71 | 3.31 | 0.31 | 0.42 |
| 35.40 | 16.76 | 7.61 | 13.28 | 101.03 | 3.22 | 0.42 | 0.54 |
| 35.50 | 20.84 | 9.67 | 11.03 | 106.70 | 3.12 | 0.52 | 0.69 |
| 35.57 | 23.37 | 10.95 | 10.02 | 109.72 | 3.07 | 0.54 | 0.78 |
| 35.65 | 23.77 | 11.12 | 10.10 | 112.36 | 3.07 | 0.57 | 0.79 |
| 35.71 | 22.86 | 10.64 | 10.83 | 115.22 | 3.11 | 0.61 | 0.76 |
| 35.79 | 21.65 | 9.99 | 11.64 | 116.27 | 3.15 | 0.61 | 0.71 |
| 35.85 | 20.37 | 9.32 | 12.22 | 113.90 | 3.18 | 0.57 | 0.67 |
| 35.94 | 19.29 | 8.75 | 12.53 | 109.71 | 3.19 | 0.51 | 0.63 |
| 35.99 | 18.31 | 8.24 | 12.58 | 103.66 | 3.19 | 0.46 | 0.59 |
| 36.08 | 17.16 | 7.64 | 12.55 | 95.94 | 3.19 | 0.38 | 0.55 |
| 36.17 | 15.54 | 6.80 | 12.98 | 88.35 | 3.21 | 0.28 | 0.49 |
| 36.24 | 14.22 | 6.13 | 13.50 | 82.76 | 3.23 | 0.26 | 0.44 |
| 36.33 | 13.58 | 5.79 | 14.00 | 81.11 | 3.25 | 0.24 | 0.41 |
| 36.42 | 13.58 | 5.77 | 14.22 | 82.08 | 3.26 | 0.24 | 0.41 |
| 36.52 | 14.05 | 5.99 | 12.88 | 77.16 | 3.21 | 0.28 | 0.43 |
| 36.61 | 15.40 | 6.64 | 11.27 | 74.88 | 3.13 | 0.14 | 0.47 |
| 36.70 | 17.73 | 7.78 | 9.87 | 76.79 | 3.06 | 0.21 | 0.56 |
| 36.78 | 20.23 | 8.99 | 9.83 | 88.43 | 3.06 | 0.34 | 0.64 |
| 36.85 | 18.24 | 7.99 | 12.41 | 99.18 | 3.19 | 0.44 | 0.57 |
| 36.87 | 20.20 | 8.95 | 11.61 | 103.88 | 3.15 | 0.46 | 0.64 |
| 36.91 | 23.23 | 10.43 | 10.08 | 105.17 | 3.07 | 0.51 | 0.75 |
| 36.97 | 31.40 | 15.73 | 6.66 | 104.77 | 2.86 | 0.76 | 0.76 |
| 37.06 | 35.24 | 17.97 | 5.86 | 105.20 | 2.80 | 0.76 | 0.76 |
| 37.12 | 38.62 | 19.91 | 5.42 | 107.91 | 2.76 | 0.76 | 0.76 |
| 37.20 | 42.40 | 22.04 | 5.10 | 112.33 | 2.74 | 0.77 | 0.77 |
| 37.27 | 47.56 | 25.06 | 4.56 | 114.30 | 2.69 | 0.77 | 0.77 |
| 37.35 | 52.21 | 27.88 | 4.03 | 112.42 | 2.63 | 0.77 | 0.77 |
| 37.44 | 55.22 | 29.75 | 3.64 | 108.21 | 2.59 | 0.76 | 0.76 |
| 37.49 | 58.42 | 31.83 | 3.23 | 102.76 | 2.53 | 0.75 | 0.75 |
| 37.59 | 67.19 | 37.46 | 2.56 | 95.81 | 2.43 | 0.74 | 0.74 |
| 37.64 | 85.65 | 49.64 | 1.82 | 90.11 | 2.27 | 0.73 | 0.73 |
| 37.70 | 111.29 | 67.10 | 1.41 | 94.79 | 2.10 | 0.74 | 0.74 |
| 37.78 | 136.59 | 84.81 | 1.28 | 108.37 | 1.96 | 0.76 | 0.76 |
| 37.83 | 155.69 | 98.45 | 1.22 | 120.19 | 1.88 | 0.78 | 0.78 |
| 37.92 | 167.53 | 106.83 | 1.19 | 126.68 | 1.83 | 0.79 | 0.79 |
| 37.97 | 174.58 | 111.69 | 1.17 | 130.53 | 1.81 | 0.80 | 0.80 |
| 38.07 | 178.80 | 114.34 | 1.16 | 133.13 | 1.81 | 0.80 | 0.80 |
| 38.14 | 181.84 | 116.07 | 1.17 | 135.64 | 1.81 | 0.81 | 0.81 |
| 38.22 | 185.72 | 118.33 | 1.17 | 138.68 | 1.82 | 0.81 | 0.81 |
| 38.31 | 191.72 | 121.94 | 1.17 | 143.23 | 1.82 | 0.82 | 0.82 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 38.41 | 201.37 | 128.37 | 1.16 | 148.66 | 1.80 | 0.83 | 0.83 |
| 38.52 | 212.64 | 135.94 | 1.14 | 154.32 | 1.79 | 0.83 | 0.83 |
| 38.64 | 221.04 | 141.59 | 1.11 | 157.41 | 1.77 | 0.84 | 0.84 |
| 38.74 | 217.87 | 138.67 | 1.14 | 158.10 | 1.79 | 0.84 | 0.84 |
| 38.80 | 214.19 | 135.62 | 1.16 | 157.57 | 1.81 | 0.84 | 0.84 |
| 38.89 | 210.42 | 132.43 | 1.18 | 156.57 | 1.83 | 0.84 | 0.84 |
| 38.94 | 213.65 | 134.37 | 1.18 | 158.84 | 1.83 | 0.84 | 0.84 |
| 39.03 | 213.59 | 133.74 | 1.19 | 159.69 | 1.84 | 0.84 | 0.84 |
| 39.13 | 213.25 | 132.81 | 1.21 | 160.46 | 1.86 | 0.84 | 0.84 |
| 39.23 | 211.36 | 130.76 | 1.22 | 160.12 | 1.88 | 0.84 | 0.84 |
| 39.35 | 207.85 | 127.69 | 1.24 | 158.27 | 1.90 | 0.84 | 0.84 |
| 39.42 | 201.04 | 122.59 | 1.26 | 154.08 | 1.93 | 0.83 | 0.83 |
| 39.51 | 192.09 | 116.15 | 1.28 | 148.22 | 1.96 | 0.82 | 0.82 |
| 39.60 | 181.50 | 108.71 | 1.30 | 141.37 | 1.99 | 0.82 | 0.82 |
| 39.70 | 172.83 | 102.65 | 1.32 | 135.85 | 2.02 | 0.81 | 0.81 |
| 39.78 | 164.63 | 97.07 | 1.35 | 130.75 | 2.04 | 0.80 | 0.80 |
| 39.90 | 157.35 | 92.05 | 1.37 | 126.28 | 2.06 | 0.79 | 0.79 |
| 39.99 | 149.05 | 86.44 | 1.41 | 121.65 | 2.09 | 0.79 | 0.79 |
| 40.09 | 141.42 | 81.31 | 1.45 | 117.75 | 2.12 | 0.78 | 0.78 |
| 40.18 | 133.79 | 76.23 | 1.50 | 114.33 | 2.15 | 0.77 | 0.77 |
| 40.23 | 126.04 | 71.16 | 1.56 | 111.30 | 2.18 | 0.77 | 0.77 |
| 40.33 | 118.01 | 65.88 | 1.65 | 108.90 | 2.22 | 0.76 | 0.76 |
| 40.43 | 110.12 | 60.74 | 1.76 | 107.17 | 2.25 | 0.76 | 0.76 |
| 40.52 | 101.85 | 55.31 | 1.95 | 107.68 | 2.31 | 0.76 | 0.76 |
| 40.61 | 92.44 | 49.44 | 2.15 | 106.53 | 2.36 | 0.76 | 0.76 |
| 40.69 | 80.59 | 42.14 | 2.54 | 106.96 | 2.43 | 0.76 | 0.76 |
| 40.80 | 68.65 | 35.01 | 3.03 | 106.21 | 2.51 | 0.76 | 0.76 |
| 40.87 | 59.91 | 29.84 | 3.59 | 107.20 | 2.58 | 0.76 | 0.76 |
| 40.95 | 53.47 | 26.09 | 4.12 | 107.50 | 2.64 | 0.76 | 0.76 |
| 40.97 | 51.37 | 24.94 | 4.24 | 105.79 | 2.65 | 0.76 | 0.76 |
| 41.01 | 54.31 | 26.70 | 3.81 | 101.77 | 2.61 | 0.75 | 0.75 |
| 41.07 | 61.80 | 31.20 | 3.04 | 94.92 | 2.51 | 0.74 | 0.74 |
| 41.15 | 67.40 | 34.61 | 2.61 | 90.47 | 2.44 | 0.73 | 0.73 |
| 41.26 | 67.13 | 34.39 | 2.61 | 89.74 | 2.44 | 0.73 | 0.73 |
| 41.35 | 63.05 | 31.86 | 2.87 | 91.40 | 2.48 | 0.73 | 0.73 |
| 41.47 | 60.28 | 30.09 | 3.10 | 93.27 | 2.52 | 0.74 | 0.74 |
| 41.59 | 59.67 | 29.62 | 3.18 | 94.19 | 2.53 | 0.74 | 0.74 |
| 41.69 | 60.42 | 29.94 | 3.18 | 95.29 | 2.53 | 0.74 | 0.74 |
| 41.78 | 59.17 | 29.08 | 3.36 | 97.63 | 2.55 | 0.74 | 0.74 |
| 41.88 | 54.75 | 26.41 | 3.82 | 100.94 | 2.61 | 0.75 | 0.75 |
| 41.98 | 49.45 | 23.32 | 4.43 | 103.21 | 2.67 | 0.75 | 0.75 |
| 42.08 | 45.13 | 20.88 | 4.96 | 103.54 | 2.72 | 0.75 | 0.75 |
| 42.16 | 44.32 | 20.43 | 4.99 | 102.01 | 2.73 | 0.75 | 0.75 |
| 42.24 | 47.12 | 21.98 | 4.53 | 99.69 | 2.68 | 0.75 | 0.75 |
| 42.31 | 52.25 | 24.86 | 3.91 | 97.23 | 2.62 | 0.74 | 0.74 |
| 42.45 | 56.94 | 27.44 | 3.48 | 95.61 | 2.57 | 0.74 | 0.74 |
| 42.55 | 59.37 | 28.78 | 3.30 | 94.91 | 2.54 | 0.74 | 0.74 |
| 42.60 | 59.78 | 28.96 | 3.29 | 95.14 | 2.54 | 0.74 | 0.74 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 42.70 | 59.34 | 28.59 | 3.38 | 96.60 | 2.55 | 0.74 | 0.74 |
| 42.81 | 57.38 | 27.33 | 3.64 | 99.43 | 2.59 | 0.75 | 0.75 |
| 42.89 | 53.57 | 25.06 | 4.12 | 103.15 | 2.64 | 0.75 | 0.75 |
| 42.98 | 48.27 | 22.02 | 4.84 | 106.61 | 2.71 | 0.76 | 0.76 |
| 43.08 | 43.14 | 19.16 | 5.69 | 108.99 | 2.79 | 0.76 | 0.76 |
| 43.17 | 40.44 | 17.68 | 6.18 | 109.35 | 2.83 | 0.76 | 0.76 |
| 43.27 | 41.05 | 18.01 | 5.94 | 107.03 | 2.81 | 0.76 | 0.76 |
| 43.37 | 43.81 | 19.71 | 4.84 | 95.48 | 2.71 | 0.74 | 0.74 |
| 43.50 | 46.82 | 21.62 | 3.86 | 83.44 | 2.61 | 0.71 | 0.71 |
| 43.61 | 48.54 | 22.85 | 3.24 | 73.95 | 2.54 | 0.35 | 0.69 |
| 43.74 | 49.31 | 23.16 | 3.25 | 75.29 | 2.54 | 0.39 | 0.70 |
| 43.79 | 49.31 | 22.99 | 3.44 | 79.06 | 2.56 | 0.54 | 0.71 |
| 43.86 | 48.47 | 22.31 | 3.79 | 84.59 | 2.60 | 0.72 | 0.72 |
| 43.94 | 47.05 | 21.30 | 4.28 | 91.16 | 2.66 | 0.73 | 0.73 |
| 44.00 | 44.89 | 19.92 | 4.92 | 98.08 | 2.72 | 0.74 | 0.74 |
| 44.08 | 42.33 | 18.39 | 5.62 | 103.37 | 2.78 | 0.75 | 0.75 |
| 44.17 | 38.85 | 16.48 | 6.45 | 106.26 | 2.85 | 0.76 | 0.76 |
| 44.27 | 35.44 | 14.71 | 7.14 | 105.00 | 2.90 | 0.76 | 0.76 |
| 44.42 | 34.16 | 14.09 | 7.15 | 100.72 | 2.90 | 0.75 | 0.75 |
| 44.52 | 37.10 | 15.69 | 6.06 | 95.03 | 2.82 | 0.74 | 0.74 |
| 44.61 | 44.15 | 19.52 | 4.49 | 87.72 | 2.68 | 0.72 | 0.72 |
| 44.71 | 51.91 | 23.77 | 3.51 | 83.46 | 2.57 | 0.71 | 0.71 |
| 44.85 | 56.66 | 26.27 | 3.19 | 83.87 | 2.53 | 0.72 | 0.72 |
| 44.95 | 57.30 | 26.40 | 3.34 | 88.11 | 2.55 | 0.72 | 0.72 |
| 45.09 | 54.98 | 24.92 | 3.69 | 92.06 | 2.59 | 0.73 | 0.73 |
| 45.19 | 50.09 | 22.17 | 4.29 | 95.00 | 2.66 | 0.74 | 0.74 |
| 45.33 | 43.44 | 18.53 | 5.31 | 98.48 | 2.76 | 0.75 | 0.75 |
| 45.42 | 37.17 | 15.25 | 6.56 | 100.02 | 2.85 | 0.75 | 0.75 |
| 45.57 | 34.20 | 13.74 | 7.18 | 98.64 | 2.90 | 0.75 | 0.75 |
| 45.68 | 32.58 | 12.98 | 7.29 | 94.66 | 2.91 | 0.74 | 0.74 |
| 45.81 | 30.45 | 12.02 | 7.30 | 87.72 | 2.91 | 0.72 | 0.72 |
| 45.92 | 26.54 | 9.26 | 8.96 | 82.93 | 3.01 | 0.26 | 0.66 |
| 46.05 | 22.29 | 7.59 | 10.87 | 82.51 | 3.11 | 0.33 | 0.54 |
| 46.16 | 19.32 | 6.43 | 13.40 | 86.12 | 3.23 | 0.32 | 0.46 |
| 46.17 | 17.73 | 5.82 | 14.71 | 85.57 | 3.28 | 0.32 | 0.42 |
| 46.23 | 17.46 | 5.70 | 14.75 | 84.09 | 3.28 | 0.30 | 0.41 |
| 46.29 | 16.85 | 5.46 | 15.02 | 82.02 | 3.29 | 0.28 | 0.39 |
| 46.34 | 16.04 | 5.15 | 15.32 | 78.81 | 3.31 | 0.26 | 0.37 |
| 46.42 | 15.30 | 4.85 | 15.44 | 74.90 | 3.31 | 0.22 | 0.35 |
| 46.48 | 14.90 | 4.69 | 15.10 | 70.80 | 3.30 | 0.19 | 0.34 |
| 46.52 | 14.69 | 4.61 | 14.73 | 67.86 | 3.28 | 0.17 | 0.33 |
| 46.60 | 14.56 | 4.55 | 14.47 | 65.79 | 3.27 | 0.16 | 0.32 |
| 46.67 | 14.49 | 4.51 | 14.23 | 64.21 | 3.26 | 0.15 | 0.32 |
| 46.74 | 14.45 | 4.49 | 14.03 | 63.02 | 3.25 | 0.14 | 0.32 |
| 46.82 | 14.42 | 4.47 | 13.84 | 61.88 | 3.25 | 0.14 | 0.32 |
| 46.88 | 14.19 | 4.37 | 13.96 | 61.07 | 3.25 | 0.13 | 0.31 |
| 46.96 | 14.10 | 4.33 | 13.99 | 60.61 | 3.25 | 0.13 | 0.31 |
| 47.06 | 13.97 | 4.27 | 14.16 | 60.52 | 3.26 | 0.13 | 0.31 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 47.15 | 14.11 | 4.31 | 14.15 | 61.03 | 3.26 | 0.13 | 0.31 |
| 47.24 | 14.43 | 4.42 | 14.72 | 65.10 | 3.28 | 0.14 | 0.32 |
| 47.35 | 16.18 | 5.07 | 14.87 | 75.39 | 3.29 | 0.20 | 0.36 |
| 47.49 | 19.69 | 6.36 | 12.67 | 80.67 | 3.20 | 0.35 | 0.45 |
| 47.58 | 24.11 | 8.00 | 10.33 | 82.65 | 3.09 | 0.29 | 0.57 |
| 47.73 | 26.03 | 8.69 | 9.32 | 80.95 | 3.03 | 0.30 | 0.62 |
| 47.83 | 27.06 | 9.05 | 9.05 | 81.84 | 3.02 | 0.33 | 0.65 |
| 47.87 | 26.18 | 8.71 | 9.55 | 83.19 | 3.04 | 0.32 | 0.62 |
| 47.89 | 26.93 | 8.98 | 9.14 | 82.12 | 3.02 | 0.32 | 0.64 |
| 47.94 | 26.64 | 8.87 | 9.20 | 81.59 | 3.02 | 0.31 | 0.63 |
| 48.02 | 26.81 | 8.91 | 9.08 | 80.90 | 3.02 | 0.31 | 0.64 |
| 48.07 | 26.40 | 8.75 | 9.26 | 81.07 | 3.03 | 0.31 | 0.63 |
| 48.12 | 25.97 | 8.58 | 9.61 | 82.45 | 3.05 | 0.31 | 0.61 |
| 48.18 | 25.43 | 8.37 | 10.05 | 84.09 | 3.07 | 0.34 | 0.60 |
| 48.26 | 25.01 | 8.20 | 10.42 | 85.42 | 3.09 | 0.34 | 0.59 |
| 48.31 | 24.60 | 8.04 | 10.54 | 84.77 | 3.10 | 0.34 | 0.57 |
| 48.38 | 24.56 | 8.01 | 10.30 | 82.58 | 3.08 | 0.31 | 0.57 |
| 48.46 | 24.71 | 8.05 | 9.85 | 79.31 | 3.06 | 0.29 | 0.58 |
| 48.52 | 24.41 | 7.93 | 9.58 | 75.99 | 3.05 | 0.26 | 0.57 |
| 48.60 | 23.16 | 7.46 | 9.70 | 72.40 | 3.05 | 0.23 | 0.53 |
| 48.68 | 20.77 | 6.57 | 10.59 | 69.64 | 3.10 | 0.19 | 0.47 |
| 48.74 | 18.20 | 5.63 | 12.04 | 67.76 | 3.17 | 0.18 | 0.40 |
| 48.82 | 15.94 | 4.80 | 14.01 | 67.24 | 3.25 | 0.17 | 0.34 |
| 48.89 | 14.56 | 4.29 | 15.49 | 66.41 | 3.31 | 0.17 | 0.31 |
| 48.99 | 13.82 | 4.01 | 16.21 | 64.98 | 3.34 | 0.16 | 0.29 |
| 49.05 | 13.65 | 3.94 | 15.85 | 62.48 | 3.32 | 0.14 | 0.28 |
| 49.12 | 13.51 | 3.89 | 15.38 | 59.74 | 3.31 | 0.12 | 0.28 |
| 49.18 | 13.55 | 3.89 | 14.70 | 57.20 | 3.28 | 0.11 | 0.28 |
| 49.27 | 13.75 | 3.96 | 14.08 | 55.71 | 3.26 | 0.10 | 0.28 |
| 49.32 | 13.92 | 4.01 | 13.56 | 54.42 | 3.24 | 0.10 | 0.29 |
| 49.42 | 13.55 | 3.87 | 13.92 | 53.88 | 3.25 | 0.09 | 0.28 |
| 49.48 | 13.11 | 3.71 | 14.46 | 53.63 | 3.27 | 0.09 | 0.26 |
| 49.56 | 13.01 | 3.66 | 14.76 | 54.09 | 3.28 | 0.09 | 0.26 |
| 49.66 | 13.28 | 3.75 | 14.73 | 55.25 | 3.28 | 0.10 | 0.27 |
| 49.76 | 13.68 | 3.89 | 14.49 | 56.33 | 3.27 | 0.11 | 0.28 |
| 49.85 | 14.06 | 4.01 | 13.46 | 54.00 | 3.23 | 0.11 | 0.29 |
| 49.99 | 14.87 | 4.29 | 11.96 | 51.28 | 3.17 | 0.06 | 0.31 |
| 50.09 | 14.43 | 4.12 | 11.90 | 49.07 | 3.16 | 0.08 | 0.29 |
| 50.21 | 13.82 | 3.89 | 12.94 | 50.39 | 3.21 | 0.08 | 0.28 |
| 50.24 | 13.21 | 3.68 | 13.72 | 50.47 | 3.24 | 0.08 | 0.26 |
| 50.29 | 13.59 | 3.81 | 13.05 | 49.66 | 3.21 | 0.08 | 0.27 |
| 50.38 | 13.69 | 3.83 | 12.73 | 48.82 | 3.20 | 0.07 | 0.27 |
| 50.47 | 13.39 | 3.72 | 13.00 | 48.36 | 3.21 | 0.07 | 0.27 |
| 50.52 | 12.98 | 3.57 | 13.61 | 48.61 | 3.24 | 0.07 | 0.26 |
| 50.62 | 13.01 | 3.58 | 13.73 | 49.09 | 3.24 | 0.07 | 0.26 |
| 50.66 | 13.15 | 3.62 | 13.70 | 49.58 | 3.24 | 0.08 | 0.26 |
| 50.76 | 13.28 | 3.66 | 13.70 | 50.11 | 3.24 | 0.08 | 0.26 |
| 50.83 | 14.13 | 3.95 | 12.99 | 51.29 | 3.21 | 0.08 | 0.28 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 50.91 | 14.30 | 4.00 | 13.34 | 53.36 | 3.23 | 0.09 | 0.29 |
| 51.00 | 15.61 | 4.45 | 12.42 | 55.29 | 3.19 | 0.11 | 0.32 |
| 51.06 | 17.36 | 5.06 | 11.27 | 56.99 | 3.13 | 0.11 | 0.36 |
| 51.15 | 17.67 | 5.15 | 11.86 | 61.08 | 3.16 | 0.13 | 0.37 |
| 51.24 | 16.35 | 4.68 | 14.43 | 67.57 | 3.27 | 0.18 | 0.33 |
| 51.31 | 12.88 | 3.47 | 21.69 | 75.27 | 3.51 | 0.23 | 0.25 |
| 51.39 | 18.55 | 5.43 | 14.77 | 80.15 | 3.28 | 0.29 | 0.39 |
| 51.48 | 32.14 | 11.43 | 7.23 | 82.64 | 2.90 | 0.71 | 0.71 |
| 51.58 | 35.38 | 12.78 | 6.83 | 87.30 | 2.87 | 0.72 | 0.72 |
| 51.68 | 27.82 | 8.59 | 10.70 | 91.85 | 3.10 | 0.45 | 0.61 |
| 51.77 | 17.84 | 5.13 | 19.49 | 100.06 | 3.45 | 0.43 | 0.37 |
| 51.90 | 36.80 | 11.62 | 9.16 | 106.47 | 3.02 | 0.53 | 0.83 |
| 52.01 | 74.42 | 30.49 | 3.61 | 110.20 | 2.58 | 0.77 | 0.77 |
| 52.11 | 128.50 | 57.50 | 2.11 | 121.05 | 2.34 | 0.78 | 0.78 |
| 52.26 | 161.87 | 74.64 | 1.77 | 131.90 | 2.25 | 0.80 | 0.80 |
| 52.30 | 209.17 | 100.78 | 1.45 | 146.55 | 2.12 | 0.82 | 0.82 |
| 52.33 | 248.44 | 124.60 | 1.31 | 162.63 | 2.00 | 0.84 | 0.84 |
| 52.35 | 302.93 | 158.50 | 1.21 | 192.22 | 1.87 | 0.88 | 0.88 |
| 52.40 | 347.53 | 187.07 | 1.12 | 209.95 | 1.78 | 0.90 | 0.90 |
| 52.45 | 381.51 | 208.63 | 1.04 | 216.58 | 1.72 | 0.90 | 0.90 |
| 52.50 | 415.58 | 229.89 | 1.00 | 229.89 | 1.69 | 0.92 | 0.92 |
| 52.55 | 447.33 | 248.98 | 1.00 | 248.98 | 1.67 | 0.93 | 0.93 |
| 52.60 | 486.53 | 273.15 | 1.00 | 273.15 | 1.63 | 0.96 | 0.96 |
| 52.65 | 516.02 | 289.64 | 1.00 | 289.64 | 1.60 | 0.97 | 0.97 |
| 52.71 | 531.14 | 297.95 | 1.00 | 297.95 | 1.57 | 0.98 | 0.98 |
| 52.77 | 541.83 | 303.79 | 1.00 | 303.79 | 1.53 | 0.98 | 0.98 |
| 52.82 | 558.50 | 312.99 | 1.00 | 312.99 | 1.51 | 0.99 | 0.99 |
| 52.88 | 578.13 | 323.84 | 1.00 | 323.84 | 1.48 | 1.00 | 1.00 |
| 52.93 | 592.07 | 331.46 | 1.00 | 331.46 | 1.46 | 1.00 | 1.00 |
| 52.98 | 605.70 | 338.95 | 1.00 | 338.95 | 1.46 | 1.01 | 1.01 |
| 53.03 | 608.64 | 340.39 | 1.00 | 340.39 | 1.46 | 1.01 | 1.01 |
| 53.08 | 608.27 | 340.01 | 1.00 | 340.01 | 1.46 | 1.01 | 1.01 |
| 53.12 | 601.01 | 335.78 | 1.00 | 335.78 | 1.47 | 1.00 | 1.00 |
| 53.17 | 598.22 | 333.99 | 1.00 | 333.99 | 1.46 | 1.00 | 1.00 |
| 53.23 | 600.71 | 335.19 | 1.00 | 335.19 | 1.45 | 1.00 | 1.00 |
| 53.28 | 596.23 | 332.45 | 1.00 | 332.45 | 1.47 | 1.00 | 1.00 |
| 53.37 | 588.50 | 327.80 | 1.00 | 327.80 | 1.48 | 1.00 | 1.00 |
| 53.42 | 584.11 | 325.17 | 1.00 | 325.17 | 1.50 | 1.00 | 1.00 |
| 53.46 | 586.81 | 326.50 | 1.00 | 326.50 | 1.52 | 1.00 | 1.00 |
| 53.53 | 599.03 | 333.09 | 1.00 | 333.09 | 1.53 | 1.00 | 1.00 |
| 53.61 | 597.34 | 331.84 | 1.00 | 331.84 | 1.56 | 1.00 | 1.00 |
| 53.62 | 582.26 | 323.39 | 1.00 | 323.39 | 1.60 | 1.00 | 1.00 |
| 53.65 | 574.05 | 318.67 | 1.00 | 318.67 | 1.60 | 0.99 | 0.99 |
| 53.67 | 571.35 | 317.12 | 1.00 | 317.12 | 1.61 | 0.99 | 0.99 |
| 53.70 | 583.83 | 323.95 | 1.00 | 323.95 | 1.59 | 1.00 | 1.00 |
| 53.74 | 582.83 | 323.26 | 1.00 | 323.26 | 1.60 | 1.00 | 1.00 |
| 53.76 | 583.81 | 323.74 | 1.00 | 323.74 | 1.60 | 1.00 | 1.00 |
| 53.80 | 581.08 | 322.06 | 1.00 | 322.06 | 1.59 | 0.99 | 0.99 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 53.84 | 577.81 | 320.07 | 1.00 | 320.07 | 1.59 | 0.99 | 0.99 |
| 53.90 | 578.23 | 320.12 | 1.00 | 320.12 | 1.58 | 0.99 | 0.99 |
| 53.91 | 570.20 | 315.61 | 1.00 | 315.61 | 1.59 | 0.99 | 0.99 |
| 53.95 | 573.64 | 317.38 | 1.00 | 317.38 | 1.58 | 0.99 | 0.99 |
| 53.96 | 579.94 | 320.83 | 1.00 | 320.83 | 1.58 | 0.99 | 0.99 |
| 53.98 | 601.06 | 332.48 | 1.00 | 332.48 | 1.56 | 1.00 | 1.00 |
| 53.99 | 602.95 | 333.50 | 1.00 | 333.50 | 1.56 | 1.00 | 1.00 |
| 54.01 | 592.15 | 327.46 | 1.00 | 327.46 | 1.57 | 1.00 | 1.00 |
| 54.02 | 579.33 | 320.31 | 1.00 | 320.31 | 1.58 | 0.99 | 0.99 |
| 54.03 | 553.15 | 305.74 | 1.00 | 305.74 | 1.61 | 0.98 | 0.98 |
| 54.04 | 504.84 | 276.21 | 1.00 | 276.21 | 1.67 | 0.96 | 0.96 |
| 54.05 | 452.17 | 241.19 | 1.08 | 260.14 | 1.75 | 0.94 | 0.94 |
| 54.09 | 422.63 | 221.81 | 1.15 | 254.46 | 1.79 | 0.94 | 0.94 |
| 54.10 | 421.59 | 220.94 | 1.15 | 254.57 | 1.80 | 0.94 | 0.94 |
| 54.13 | 421.89 | 221.06 | 1.15 | 254.64 | 1.80 | 0.94 | 0.94 |
| 54.14 | 420.96 | 220.34 | 1.16 | 254.59 | 1.80 | 0.94 | 0.94 |
| 54.19 | 422.82 | 221.19 | 1.16 | 255.77 | 1.80 | 0.94 | 0.94 |
| 54.19 | 428.79 | 224.52 | 1.15 | 258.95 | 1.80 | 0.94 | 0.94 |
| 54.24 | 439.22 | 231.86 | 1.12 | 259.93 | 1.77 | 0.94 | 0.94 |
| 54.29 | 456.97 | 245.94 | 1.02 | 249.88 | 1.71 | 0.94 | 0.94 |
| 54.33 | 474.10 | 261.31 | 1.00 | 261.31 | 1.64 | 0.95 | 0.95 |
| 54.38 | 494.95 | 272.80 | 1.00 | 272.80 | 1.57 | 0.96 | 0.96 |
| 54.39 | 512.70 | 282.62 | 1.00 | 282.62 | 1.53 | 0.96 | 0.96 |
| 54.43 | 529.13 | 291.66 | 1.00 | 291.66 | 1.52 | 0.97 | 0.97 |
| 54.48 | 543.10 | 299.32 | 1.00 | 299.32 | 1.44 | 0.98 | 0.98 |
| 54.52 | 556.66 | 306.76 | 1.00 | 306.76 | 1.36 | 0.98 | 0.98 |
| 54.58 | 573.87 | 316.20 | 1.00 | 316.20 | 1.26 | 0.99 | 0.99 |
| 54.62 | 587.13 | 323.46 | 1.00 | 323.46 | 1.28 | 1.00 | 1.00 |
| 54.65 | 604.44 | 333.00 | 1.00 | 333.00 | 1.29 | 1.00 | 1.00 |
| 54.67 | 623.33 | 343.41 | 1.00 | 343.41 | 1.30 | 1.01 | 1.01 |
| 54.71 | 658.15 | 362.60 | 1.00 | 362.60 | 1.28 | 1.02 | 1.02 |
| 54.77 | 679.34 | 374.21 | 1.00 | 374.21 | 1.20 | 1.03 | 1.03 |
| 54.81 | 702.99 | 387.19 | 1.00 | 387.19 | 1.11 | 1.04 | 1.04 |
| 54.85 | 704.07 | 387.70 | 1.00 | 387.70 | 1.04 | 1.04 | 1.04 |
| 54.86 | 709.13 | 390.48 | 1.00 | 390.48 | 1.06 | 1.04 | 1.04 |
| 54.87 | 703.33 | 387.26 | 1.00 | 387.26 | 1.09 | 1.04 | 1.04 |
| 54.91 | 703.66 | 387.35 | 1.00 | 387.35 | 1.13 | 1.04 | 1.04 |
| 54.96 | 707.14 | 389.17 | 1.00 | 389.17 | 1.16 | 1.04 | 1.04 |
| 55.00 | 703.19 | 386.89 | 1.00 | 386.89 | 1.18 | 1.04 | 1.04 |
| 55.01 | 695.84 | 382.82 | 1.00 | 382.82 | 1.19 | 1.04 | 1.04 |
| 55.05 | 679.11 | 373.47 | 1.00 | 373.47 | 1.21 | 1.03 | 1.03 |
| 55.10 | 651.07 | 357.87 | 1.00 | 357.87 | 1.24 | 1.02 | 1.02 |
| 55.12 | 603.77 | 331.72 | 1.00 | 331.72 | 1.29 | 1.00 | 1.00 |
| 55.13 | 570.97 | 313.58 | 1.00 | 313.58 | 1.33 | 0.99 | 0.99 |
| 55.14 | 563.11 | 309.22 | 1.00 | 309.22 | 1.33 | 0.98 | 0.98 |
| 55.19 | 576.91 | 316.75 | 1.00 | 316.75 | 1.31 | 0.99 | 0.99 |
| 55.20 | 576.27 | 316.38 | 1.00 | 316.38 | 1.31 | 0.99 | 0.99 |
| 55.25 | 562.13 | 308.48 | 1.00 | 308.48 | 1.33 | 0.98 | 0.98 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 55.29 | 546.07 | 299.55 | 1.00 | 299.55 | 1.37 | 0.98 | 0.98 |
| 55.33 | 519.69 | 284.92 | 1.00 | 284.92 | 1.42 | 0.97 | 0.97 |
| 55.38 | 481.16 | 263.59 | 1.00 | 263.59 | 1.52 | 0.95 | 0.95 |
| 55.48 | 439.32 | 240.38 | 1.00 | 240.38 | 1.63 | 0.93 | 0.93 |
| 55.57 | 411.39 | 218.55 | 1.04 | 227.87 | 1.73 | 0.92 | 0.92 |
| 55.63 | 398.09 | 206.42 | 1.15 | 237.94 | 1.80 | 0.92 | 0.92 |
| 55.72 | 402.04 | 206.08 | 1.19 | 244.53 | 1.83 | 0.93 | 0.93 |
| 55.80 | 431.09 | 221.88 | 1.17 | 260.68 | 1.82 | 0.95 | 0.95 |
| 55.86 | 480.55 | 259.76 | 1.00 | 259.76 | 1.67 | 0.94 | 0.94 |
| 55.97 | 527.85 | 288.32 | 1.00 | 288.32 | 1.51 | 0.97 | 0.97 |
| 56.01 | 560.55 | 306.20 | 1.00 | 306.20 | 1.34 | 0.98 | 0.98 |
| 56.06 | 587.84 | 186.61 | 1.00 | 186.61 | 1.50 | 0.87 | 0.87 |
| 56.11 | 613.11 | 194.57 | 1.00 | 194.57 | 1.50 | 0.88 | 0.88 |
| 56.15 | 640.71 | 203.27 | 1.00 | 203.27 | 1.51 | 0.89 | 0.89 |
| 56.20 | 660.92 | 209.60 | 1.00 | 209.60 | 1.52 | 0.90 | 0.90 |
| 56.27 | 663.16 | 210.15 | 1.00 | 210.15 | 1.53 | 0.90 | 0.90 |
| 56.27 | 664.17 | 210.45 | 1.00 | 210.45 | 1.56 | 0.90 | 0.90 |
| 56.30 | 642.20 | 203.39 | 1.00 | 203.39 | 1.61 | 0.89 | 0.89 |
| 56.33 | 649.54 | 205.64 | 1.00 | 205.64 | 1.64 | 0.89 | 0.89 |
| 56.35 | 647.65 | 205.00 | 1.00 | 205.00 | 1.66 | 0.89 | 0.89 |
| 56.40 | 667.86 | 211.31 | 1.00 | 211.31 | 1.64 | 0.90 | 0.90 |
| 56.41 | 669.34 | 211.76 | 1.00 | 211.76 | 1.64 | 0.90 | 0.90 |
| 56.44 | 681.53 | 215.53 | 1.00 | 215.53 | 1.63 | 0.90 | 0.90 |
| 56.49 | 695.19 | 219.75 | 1.00 | 219.75 | 1.62 | 0.91 | 0.91 |
| 56.54 | 717.49 | 226.71 | 1.00 | 226.71 | 1.61 | 0.91 | 0.91 |
| 56.58 | 737.23 | 232.85 | 1.00 | 232.85 | 1.61 | 0.92 | 0.92 |
| 56.59 | 750.18 | 236.93 | 1.00 | 236.93 | 1.61 | 0.92 | 0.92 |
| 56.64 | 757.34 | 239.07 | 1.00 | 239.07 | 1.60 | 0.93 | 0.93 |
| 56.69 | 764.80 | 241.29 | 1.00 | 241.29 | 1.60 | 0.93 | 0.93 |
| 56.73 | 778.16 | 245.40 | 1.00 | 245.40 | 1.59 | 0.93 | 0.93 |
| 56.78 | 778.56 | 245.38 | 1.00 | 245.38 | 1.58 | 0.93 | 0.93 |
| 56.83 | 759.53 | 239.22 | 1.00 | 239.22 | 1.58 | 0.93 | 0.93 |
| 56.88 | 731.80 | 230.32 | 1.00 | 230.32 | 1.58 | 0.92 | 0.92 |
| 56.89 | 708.89 | 223.03 | 1.00 | 223.03 | 1.60 | 0.91 | 0.91 |
| 56.95 | 692.53 | 217.71 | 1.00 | 217.71 | 1.59 | 0.91 | 0.91 |
| 57.01 | 668.00 | 209.81 | 1.00 | 209.81 | 1.59 | 0.90 | 0.90 |
| 57.07 | 645.94 | 202.70 | 1.00 | 202.70 | 1.58 | 0.89 | 0.89 |
| 57.11 | 619.45 | 194.25 | 1.00 | 194.25 | 1.52 | 0.88 | 0.88 |
| 57.17 | 598.63 | 187.56 | 1.00 | 187.56 | 1.46 | 0.87 | 0.87 |
| 57.26 | 574.07 | 179.66 | 1.00 | 179.66 | 1.37 | 0.86 | 0.86 |
| 57.31 | 547.05 | 171.06 | 1.00 | 171.06 | 1.43 | 0.85 | 0.85 |
| 57.37 | 520.16 | 162.50 | 1.00 | 162.50 | 1.45 | 0.84 | 0.84 |
| 57.45 | 490.27 | 152.96 | 1.00 | 152.96 | 1.51 | 0.83 | 0.83 |
| 57.51 | 451.30 | 140.63 | 1.00 | 140.63 | 1.55 | 0.81 | 0.81 |
| 57.53 | 421.54 | 131.27 | 1.00 | 131.27 | 1.59 | 0.80 | 0.80 |
| 57.59 | 401.40 | 124.87 | 1.00 | 124.87 | 1.62 | 0.79 | 0.79 |
| 57.63 | 398.96 | 124.05 | 1.00 | 124.05 | 1.62 | 0.79 | 0.79 |
| 57.68 | 391.51 | 121.66 | 1.00 | 121.66 | 1.63 | 0.79 | 0.79 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 57.73 | 386.48 | 120.01 | 1.00 | 120.01 | 1.64 | 0.78 | 0.78 |
| 57.78 | 379.02 | 117.62 | 1.00 | 117.62 | 1.65 | 0.78 | 0.78 |
| 57.86 | 359.96 | 111.55 | 1.00 | 111.55 | 1.66 | 0.77 | 0.77 |
| 57.92 | 326.32 | 100.97 | 1.00 | 100.97 | 1.71 | 0.75 | 0.75 |
| 57.98 | 290.83 | 89.82 | 1.00 | 89.82 | 1.76 | 0.73 | 0.73 |
| 58.06 | 263.33 | 81.16 | 1.18 | 95.51 | 1.82 | 0.74 | 0.74 |
| 58.12 | 242.92 | 74.75 | 1.24 | 92.39 | 1.90 | 0.73 | 0.73 |
| 58.21 | 222.41 | 68.28 | 1.30 | 88.73 | 1.99 | 0.73 | 0.73 |
| 58.26 | 204.43 | 62.64 | 1.37 | 85.71 | 2.06 | 0.72 | 0.72 |
| 58.35 | 180.37 | 55.10 | 1.48 | 81.38 | 2.14 | 0.65 | 0.71 |
| 58.41 | 154.93 | 47.15 | 1.59 | 74.91 | 2.19 | 0.38 | 0.70 |
| 58.50 | 122.84 | 37.13 | 1.90 | 70.73 | 2.29 | 0.27 | 0.69 |
| 58.56 | 98.18 | 29.45 | 2.28 | 67.27 | 2.38 | 0.20 | 0.68 |
| 58.64 | 77.90 | 23.14 | 3.23 | 74.61 | 2.53 | 0.37 | 0.69 |
| 58.73 | 63.67 | 18.70 | 4.34 | 81.15 | 2.66 | 0.64 | 0.71 |
| 58.80 | 51.12 | 14.80 | 5.89 | 87.16 | 2.80 | 0.72 | 0.72 |
| 58.84 | 42.24 | 12.04 | 7.59 | 91.44 | 2.93 | 0.73 | 0.73 |
| 58.85 | 43.79 | 12.52 | 7.27 | 91.06 | 2.90 | 0.73 | 0.73 |
| 58.93 | 50.50 | 14.59 | 6.00 | 87.49 | 2.81 | 0.72 | 0.72 |
| 58.98 | 58.12 | 16.94 | 4.87 | 82.49 | 2.72 | 0.71 | 0.71 |
| 59.02 | 61.77 | 18.06 | 4.38 | 79.02 | 2.67 | 0.54 | 0.70 |
| 59.12 | 63.39 | 18.54 | 4.19 | 77.74 | 2.65 | 0.48 | 0.70 |
| 59.17 | 65.41 | 19.15 | 4.09 | 78.34 | 2.64 | 0.51 | 0.70 |
| 59.27 | 67.33 | 19.73 | 4.06 | 80.06 | 2.63 | 0.59 | 0.71 |
| 59.31 | 67.64 | 19.81 | 4.15 | 82.31 | 2.64 | 0.71 | 0.71 |
| 59.41 | 64.84 | 18.93 | 4.46 | 84.40 | 2.68 | 0.72 | 0.72 |
| 59.46 | 57.99 | 16.81 | 5.11 | 85.91 | 2.74 | 0.72 | 0.72 |
| 59.55 | 48.77 | 13.96 | 6.20 | 86.53 | 2.83 | 0.72 | 0.72 |
| 59.65 | 39.66 | 11.14 | 7.37 | 82.12 | 2.91 | 0.70 | 0.71 |
| 59.70 | 34.25 | 9.47 | 8.28 | 78.48 | 2.97 | 0.51 | 0.70 |
| 59.80 | 32.07 | 8.80 | 8.61 | 75.77 | 2.99 | 0.41 | 0.70 |
| 59.89 | 32.04 | 8.78 | 9.03 | 79.29 | 3.01 | 0.30 | 0.63 |
| 59.94 | 31.04 | 8.47 | 9.76 | 82.68 | 3.06 | 0.33 | 0.60 |
| 60.01 | 30.35 | 8.25 | 10.33 | 85.21 | 3.09 | 0.36 | 0.59 |
| 60.02 | 32.64 | 8.95 | 9.57 | 85.70 | 3.04 | 0.36 | 0.64 |
| 60.08 | 35.54 | 9.83 | 8.61 | 84.70 | 2.99 | 0.72 | 0.72 |
| 60.12 | 36.56 | 10.14 | 8.23 | 83.40 | 2.97 | 0.71 | 0.71 |
| 60.17 | 32.87 | 9.01 | 9.03 | 81.32 | 3.01 | 0.34 | 0.64 |
| 60.27 | 28.56 | 7.68 | 10.03 | 76.99 | 3.07 | 0.27 | 0.55 |
| 60.31 | 24.81 | 6.53 | 11.00 | 71.83 | 3.12 | 0.21 | 0.47 |
| 60.37 | 22.21 | 5.73 | 11.72 | 67.16 | 3.15 | 0.19 | 0.41 |
| 60.46 | 20.93 | 5.33 | 12.03 | 64.16 | 3.17 | 0.15 | 0.38 |
| 60.51 | 20.76 | 5.28 | 11.57 | 61.05 | 3.15 | 0.14 | 0.38 |
| 60.61 | 21.43 | 5.48 | 10.86 | 59.48 | 3.11 | 0.13 | 0.39 |
| 60.65 | 21.84 | 5.60 | 10.44 | 58.49 | 3.09 | 0.13 | 0.40 |
| 60.75 | 22.18 | 5.70 | 10.27 | 58.52 | 3.08 | 0.13 | 0.41 |
| 60.81 | 22.25 | 5.72 | 10.24 | 58.52 | 3.08 | 0.13 | 0.41 |
| 60.89 | 22.21 | 5.70 | 10.20 | 58.14 | 3.08 | 0.13 | 0.41 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 60.94 | 22.45 | 5.77 | 10.12 | 58.37 | 3.07 | 0.12 | 0.41 |
| 61.03 | 22.62 | 5.81 | 10.19 | 59.27 | 3.08 | 0.13 | 0.42 |
| 61.09 | 22.65 | 5.82 | 10.23 | 59.56 | 3.08 | 0.14 | 0.42 |
| 61.19 | 22.38 | 5.74 | 10.30 | 59.09 | 3.08 | 0.13 | 0.41 |
| 61.24 | 22.96 | 5.91 | 9.90 | 58.48 | 3.06 | 0.12 | 0.42 |
| 61.33 | 24.51 | 6.37 | 9.35 | 59.55 | 3.03 | 0.14 | 0.46 |
| 61.38 | 24.20 | 6.28 | 10.50 | 65.92 | 3.09 | 0.15 | 0.45 |
| 61.47 | 23.16 | 5.95 | 12.35 | 73.50 | 3.18 | 0.24 | 0.43 |
| 61.53 | 21.88 | 5.56 | 14.59 | 81.14 | 3.28 | 0.29 | 0.40 |
| 61.62 | 27.61 | 7.29 | 11.24 | 81.97 | 3.13 | 0.33 | 0.52 |
| 61.70 | 44.48 | 12.39 | 6.68 | 82.73 | 2.86 | 0.71 | 0.71 |
| 61.77 | 66.81 | 19.14 | 4.44 | 84.93 | 2.67 | 0.72 | 0.72 |
| 61.86 | 81.96 | 23.70 | 3.78 | 89.66 | 2.60 | 0.73 | 0.73 |
| 61.95 | 81.02 | 23.39 | 4.06 | 94.89 | 2.63 | 0.74 | 0.74 |
| 61.97 | 72.62 | 20.85 | 4.65 | 96.91 | 2.69 | 0.74 | 0.74 |
| 62.01 | 62.36 | 17.75 | 5.62 | 99.66 | 2.78 | 0.75 | 0.75 |
| 62.10 | 52.17 | 14.66 | 6.77 | 99.23 | 2.87 | 0.75 | 0.75 |
| 62.24 | 55.41 | 15.61 | 5.76 | 89.92 | 2.79 | 0.73 | 0.73 |
| 62.34 | 87.70 | 25.31 | 2.83 | 71.54 | 2.48 | 0.29 | 0.69 |
| 62.49 | 127.58 | 37.26 | 1.74 | 64.77 | 2.25 | 0.17 | 0.67 |
| 62.54 | 164.52 | 48.34 | 1.44 | 69.68 | 2.11 | 0.25 | 0.68 |
| 62.66 | 181.39 | 53.35 | 1.37 | 73.33 | 2.07 | 0.34 | 0.69 |
| 62.74 | 199.68 | 58.78 | 1.33 | 77.94 | 2.02 | 0.49 | 0.70 |
| 62.87 | 211.65 | 62.29 | 1.30 | 80.99 | 1.99 | 0.63 | 0.71 |
| 62.92 | 217.18 | 63.92 | 1.29 | 82.65 | 1.98 | 0.71 | 0.71 |
| 63.03 | 219.18 | 64.44 | 1.29 | 83.41 | 1.98 | 0.71 | 0.71 |
| 63.15 | 218.06 | 64.03 | 1.30 | 83.38 | 1.99 | 0.71 | 0.71 |
| 63.26 | 213.11 | 62.49 | 1.32 | 82.35 | 2.01 | 0.71 | 0.71 |
| 63.37 | 206.70 | 60.51 | 1.34 | 80.92 | 2.03 | 0.63 | 0.71 |
| 63.45 | 200.15 | 58.51 | 1.34 | 78.49 | 2.04 | 0.51 | 0.70 |
| 63.54 | 197.59 | 57.70 | 1.32 | 76.31 | 2.02 | 0.43 | 0.70 |
| 63.61 | 190.30 | 55.49 | 1.33 | 73.61 | 2.02 | 0.34 | 0.69 |
| 63.69 | 172.04 | 50.02 | 1.39 | 69.47 | 2.08 | 0.24 | 0.68 |
| 63.79 | 141.71 | 40.98 | 1.65 | 67.77 | 2.22 | 0.21 | 0.68 |
| 63.89 | 106.15 | 30.39 | 2.20 | 66.74 | 2.36 | 0.19 | 0.67 |
| 63.98 | 75.22 | 21.20 | 3.37 | 71.48 | 2.55 | 0.29 | 0.69 |
| 64.07 | 53.15 | 14.65 | 4.91 | 71.91 | 2.72 | 0.30 | 0.69 |
| 64.15 | 39.12 | 10.48 | 7.30 | 76.48 | 2.91 | 0.44 | 0.70 |
| 64.23 | 29.98 | 7.77 | 10.00 | 77.68 | 3.07 | 0.27 | 0.56 |
| 64.26 | 25.15 | 6.34 | 12.34 | 78.26 | 3.18 | 0.27 | 0.45 |
| 64.29 | 23.57 | 5.87 | 13.31 | 78.14 | 3.22 | 0.26 | 0.42 |
| 64.33 | 23.37 | 5.81 | 12.89 | 74.86 | 3.21 | 0.26 | 0.41 |
| 64.43 | 22.99 | 5.69 | 12.43 | 70.78 | 3.19 | 0.19 | 0.41 |
| 64.47 | 22.29 | 5.48 | 12.05 | 66.07 | 3.17 | 0.17 | 0.39 |
| 64.53 | 21.82 | 5.34 | 12.01 | 64.15 | 3.17 | 0.16 | 0.38 |
| 64.62 | 20.60 | 4.98 | 12.74 | 63.40 | 3.20 | 0.15 | 0.36 |
| 64.72 | 19.12 | 4.53 | 13.95 | 63.23 | 3.25 | 0.15 | 0.32 |
| 64.78 | 18.00 | 4.20 | 15.17 | 63.74 | 3.30 | 0.15 | 0.30 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 64.86 | 18.21 | 4.26 | 15.26 | 65.01 | 3.30 | 0.16 | 0.30 |
| 64.96 | 18.78 | 4.42 | 15.44 | 68.31 | 3.31 | 0.18 | 0.32 |
| 65.06 | 19.22 | 4.55 | 15.74 | 71.61 | 3.32 | 0.21 | 0.32 |
| 65.11 | 19.22 | 4.55 | 16.41 | 74.58 | 3.34 | 0.23 | 0.32 |
| 65.21 | 18.85 | 4.43 | 17.13 | 75.90 | 3.37 | 0.24 | 0.32 |
| 65.31 | 18.45 | 4.31 | 17.70 | 76.26 | 3.39 | 0.24 | 0.31 |
| 65.40 | 18.28 | 4.25 | 17.10 | 72.77 | 3.37 | 0.23 | 0.30 |
| 65.50 | 18.58 | 4.34 | 15.67 | 67.97 | 3.32 | 0.16 | 0.31 |
| 65.58 | 19.02 | 4.46 | 14.15 | 63.13 | 3.26 | 0.14 | 0.32 |
| 65.68 | 19.05 | 4.47 | 13.69 | 61.17 | 3.24 | 0.14 | 0.32 |
| 65.78 | 17.67 | 4.06 | 14.89 | 60.45 | 3.29 | 0.13 | 0.29 |
| 65.84 | 16.40 | 3.69 | 16.19 | 59.69 | 3.34 | 0.13 | 0.26 |
| 65.86 | 15.56 | 3.44 | 17.33 | 59.62 | 3.38 | 0.12 | 0.25 |
| 65.87 | 16.51 | 3.72 | 15.97 | 59.36 | 3.33 | 0.12 | 0.27 |
| 65.98 | 17.26 | 3.93 | 15.03 | 59.09 | 3.29 | 0.12 | 0.28 |
| 66.10 | 17.84 | 4.09 | 14.69 | 60.13 | 3.28 | 0.12 | 0.29 |
| 66.21 | 18.21 | 4.20 | 14.85 | 62.32 | 3.29 | 0.14 | 0.30 |
| 66.34 | 18.48 | 4.27 | 14.76 | 63.01 | 3.28 | 0.16 | 0.31 |
| 66.48 | 19.00 | 4.42 | 14.39 | 63.55 | 3.27 | 0.13 | 0.32 |
| 66.62 | 18.46 | 4.25 | 14.69 | 62.45 | 3.28 | 0.15 | 0.30 |
| 66.68 | 18.67 | 4.31 | 14.87 | 64.07 | 3.29 | 0.14 | 0.31 |
| 66.87 | 18.92 | 4.37 | 15.53 | 67.94 | 3.31 | 0.16 | 0.31 |
| 66.96 | 19.16 | 4.44 | 16.65 | 73.89 | 3.35 | 0.23 | 0.32 |
| 67.11 | 18.25 | 4.17 | 18.76 | 78.15 | 3.42 | 0.27 | 0.30 |
| 67.21 | 16.83 | 3.75 | 20.42 | 76.60 | 3.47 | 0.26 | 0.27 |
| 67.35 | 16.22 | 3.57 | 20.50 | 73.18 | 3.48 | 0.19 | 0.26 |
| 67.45 | 16.16 | 3.55 | 21.95 | 77.86 | 3.52 | 0.19 | 0.25 |
| 67.59 | 27.42 | 6.79 | 13.06 | 88.71 | 3.21 | 0.37 | 0.49 |
| 67.68 | 77.39 | 21.19 | 3.95 | 83.67 | 2.62 | 0.72 | 0.72 |
| 67.83 | 159.77 | 44.89 | 1.66 | 74.68 | 2.22 | 0.38 | 0.69 |
| 67.92 | 241.25 | 68.29 | 1.30 | 88.64 | 1.99 | 0.73 | 0.73 |
| 68.02 | 283.19 | 80.28 | 1.24 | 99.35 | 1.90 | 0.75 | 0.75 |
| 68.07 | 299.01 | 84.78 | 1.22 | 103.71 | 1.88 | 0.75 | 0.75 |
| 68.16 | 305.70 | 86.62 | 1.22 | 105.26 | 1.87 | 0.76 | 0.76 |
| 68.26 | 310.93 | 88.04 | 1.21 | 106.54 | 1.86 | 0.76 | 0.76 |
| 68.35 | 307.75 | 87.05 | 1.22 | 106.44 | 1.88 | 0.76 | 0.76 |
| 68.45 | 299.96 | 84.74 | 1.24 | 105.37 | 1.91 | 0.76 | 0.76 |
| 68.55 | 291.49 | 82.23 | 1.26 | 103.72 | 1.94 | 0.75 | 0.75 |
| 68.65 | 271.72 | 76.50 | 1.29 | 98.57 | 1.98 | 0.75 | 0.75 |
| 68.78 | 253.59 | 71.23 | 1.32 | 94.35 | 2.02 | 0.74 | 0.74 |
| 68.78 | 238.18 | 66.83 | 1.36 | 90.91 | 2.05 | 0.73 | 0.73 |
| 68.79 | 234.24 | 65.70 | 1.37 | 89.70 | 2.06 | 0.73 | 0.73 |
| 68.83 | 237.70 | 66.66 | 1.34 | 89.08 | 2.03 | 0.73 | 0.73 |
| 68.93 | 243.69 | 68.30 | 1.30 | 88.59 | 1.99 | 0.73 | 0.73 |
| 68.98 | 253.54 | 71.08 | 1.25 | 89.18 | 1.93 | 0.73 | 0.73 |
| 69.04 | 257.79 | 72.25 | 1.23 | 89.05 | 1.89 | 0.73 | 0.73 |
| 69.12 | 259.28 | 72.61 | 1.23 | 89.10 | 1.89 | 0.73 | 0.73 |
| 69.22 | 255.36 | 71.43 | 1.24 | 88.23 | 1.90 | 0.72 | 0.72 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 69.28 | 247.73 | 69.22 | 1.25 | 86.25 | 1.91 | 0.72 | 0.72 |
| 69.36 | 237.41 | 66.24 | 1.26 | 83.22 | 1.93 | 0.71 | 0.71 |
| 69.45 | 223.58 | 62.26 | 1.27 | 79.21 | 1.95 | 0.55 | 0.71 |
| 69.60 | 210.12 | 58.37 | 1.29 | 75.34 | 1.98 | 0.40 | 0.70 |
| 69.70 | 198.18 | 54.94 | 1.31 | 72.05 | 2.01 | 0.30 | 0.69 |
| 69.80 | 193.42 | 53.54 | 1.32 | 70.68 | 2.01 | 0.27 | 0.69 |
| 69.89 | 192.07 | 53.12 | 1.32 | 70.30 | 2.02 | 0.26 | 0.68 |
| 69.98 | 190.15 | 52.53 | 1.33 | 69.82 | 2.02 | 0.25 | 0.68 |
| 70.08 | 181.88 | 50.15 | 1.35 | 67.53 | 2.04 | 0.21 | 0.68 |
| 70.18 | 159.82 | 43.89 | 1.45 | 63.51 | 2.12 | 0.15 | 0.67 |
| 70.32 | 124.32 | 33.85 | 1.81 | 61.16 | 2.27 | 0.12 | 0.66 |
| 70.42 | 84.31 | 22.56 | 2.96 | 66.77 | 2.50 | 0.20 | 0.68 |
| 70.54 | 51.82 | 13.41 | 5.53 | 74.19 | 2.77 | 0.36 | 0.69 |
| 70.66 | 31.85 | 7.79 | 9.69 | 75.54 | 3.05 | 0.25 | 0.56 |
| 70.75 | 23.52 | 5.45 | 13.34 | 72.70 | 3.23 | 0.21 | 0.39 |
| 70.80 | 21.80 | 4.97 | 13.43 | 66.71 | 3.23 | 0.18 | 0.35 |
| 70.89 | 22.64 | 5.20 | 11.52 | 59.87 | 3.14 | 0.12 | 0.37 |
| 70.99 | 22.34 | 5.11 | 10.38 | 53.00 | 3.09 | 0.09 | 0.36 |
| 71.08 | 21.63 | 4.90 | 10.09 | 49.46 | 3.07 | 0.07 | 0.35 |
| 71.17 | 21.43 | 4.84 | 9.87 | 47.79 | 3.06 | 0.07 | 0.35 |
| 71.23 | 20.92 | 4.70 | 10.01 | 47.05 | 3.07 | 0.07 | 0.34 |
| 71.33 | 21.09 | 4.74 | 9.74 | 46.20 | 3.05 | 0.06 | 0.34 |
| 71.42 | 21.73 | 4.92 | 9.08 | 44.64 | 3.02 | 0.06 | 0.35 |
| 71.52 | 22.81 | 5.22 | 8.26 | 43.06 | 2.97 | 0.03 | 0.62 |
| 71.58 | 23.21 | 5.33 | 8.27 | 44.01 | 2.97 | 0.04 | 0.62 |
| 71.67 | 22.88 | 5.23 | 9.07 | 47.43 | 3.02 | 0.07 | 0.37 |
| 71.81 | 22.47 | 5.11 | 9.94 | 50.76 | 3.06 | 0.09 | 0.36 |
| 71.82 | 22.24 | 5.04 | 10.42 | 52.55 | 3.09 | 0.09 | 0.36 |
| 71.86 | 21.97 | 4.96 | 10.64 | 52.82 | 3.10 | 0.09 | 0.35 |
| 71.91 | 21.83 | 4.92 | 10.75 | 52.95 | 3.11 | 0.09 | 0.35 |
| 71.97 | 21.60 | 4.86 | 10.97 | 53.27 | 3.12 | 0.09 | 0.35 |
| 72.05 | 21.36 | 4.79 | 11.22 | 53.72 | 3.13 | 0.10 | 0.34 |
| 72.10 | 21.13 | 4.72 | 11.52 | 54.35 | 3.14 | 0.10 | 0.34 |
| 72.20 | 20.99 | 4.68 | 11.71 | 54.79 | 3.15 | 0.10 | 0.33 |
| 72.25 | 20.99 | 4.67 | 11.87 | 55.49 | 3.16 | 0.10 | 0.33 |
| 72.34 | 21.09 | 4.70 | 12.12 | 56.94 | 3.17 | 0.11 | 0.34 |
| 72.44 | 21.09 | 4.69 | 12.53 | 58.80 | 3.19 | 0.12 | 0.34 |
| 72.53 | 20.89 | 4.63 | 13.04 | 60.40 | 3.21 | 0.13 | 0.33 |
| 72.63 | 20.79 | 4.60 | 13.29 | 61.13 | 3.22 | 0.14 | 0.33 |
| 72.69 | 20.48 | 4.51 | 13.55 | 61.14 | 3.23 | 0.14 | 0.32 |
| 72.82 | 20.69 | 4.56 | 13.34 | 60.87 | 3.23 | 0.13 | 0.33 |
| 72.92 | 21.13 | 4.68 | 12.83 | 60.05 | 3.20 | 0.13 | 0.33 |
| 73.06 | 22.11 | 4.95 | 11.98 | 59.27 | 3.17 | 0.12 | 0.35 |
| 73.16 | 22.34 | 5.01 | 11.90 | 59.57 | 3.16 | 0.12 | 0.36 |
| 73.30 | 20.86 | 4.59 | 13.21 | 60.65 | 3.22 | 0.14 | 0.33 |
| 73.35 | 19.88 | 4.32 | 14.25 | 61.53 | 3.26 | 0.14 | 0.31 |
| 73.38 | 19.20 | 4.13 | 14.83 | 61.23 | 3.29 | 0.13 | 0.30 |
| 73.47 | 20.02 | 4.35 | 13.95 | 60.67 | 3.25 | 0.13 | 0.31 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 73.53 | 20.08 | 4.37 | 13.79 | 60.20 | 3.24 | 0.13 | 0.31 |
| 73.62 | 20.18 | 4.39 | 13.66 | 59.95 | 3.24 | 0.13 | 0.31 |
| 73.71 | 19.95 | 4.32 | 13.95 | 60.28 | 3.25 | 0.13 | 0.31 |
| 73.77 | 19.61 | 4.23 | 14.55 | 61.46 | 3.28 | 0.13 | 0.30 |
| 73.86 | 19.34 | 4.15 | 15.21 | 63.08 | 3.30 | 0.15 | 0.30 |
| 73.96 | 19.38 | 4.15 | 15.56 | 64.61 | 3.31 | 0.15 | 0.30 |
| 74.06 | 19.58 | 4.20 | 15.60 | 65.59 | 3.32 | 0.16 | 0.30 |
| 74.13 | 20.02 | 4.32 | 15.32 | 66.22 | 3.31 | 0.16 | 0.31 |
| 74.24 | 20.36 | 4.41 | 15.12 | 66.66 | 3.30 | 0.17 | 0.31 |
| 74.34 | 20.56 | 4.46 | 15.08 | 67.26 | 3.30 | 0.17 | 0.32 |
| 74.44 | 20.42 | 4.42 | 15.35 | 67.81 | 3.31 | 0.18 | 0.32 |
| 74.58 | 20.37 | 4.40 | 15.30 | 67.28 | 3.30 | 0.18 | 0.31 |
| 74.68 | 20.30 | 4.38 | 14.35 | 62.80 | 3.27 | 0.16 | 0.31 |
| 74.80 | 20.47 | 4.42 | 13.30 | 58.74 | 3.22 | 0.09 | 0.32 |
| 74.92 | 20.26 | 4.35 | 12.97 | 56.43 | 3.21 | 0.11 | 0.31 |
| 75.07 | 20.06 | 4.29 | 13.60 | 58.35 | 3.24 | 0.12 | 0.31 |
| 75.08 | 19.75 | 4.21 | 14.10 | 59.34 | 3.26 | 0.12 | 0.30 |
| 75.11 | 19.62 | 4.17 | 14.28 | 59.53 | 3.26 | 0.12 | 0.30 |
| 75.16 | 19.55 | 4.15 | 14.53 | 60.28 | 3.27 | 0.13 | 0.30 |
| 75.25 | 19.31 | 4.08 | 15.14 | 61.74 | 3.30 | 0.13 | 0.29 |
| 75.32 | 19.14 | 4.03 | 15.69 | 63.23 | 3.32 | 0.15 | 0.29 |
| 75.40 | 18.98 | 3.98 | 16.00 | 63.73 | 3.33 | 0.15 | 0.28 |
| 75.50 | 18.81 | 3.93 | 15.96 | 62.77 | 3.33 | 0.14 | 0.28 |
| 75.59 | 18.30 | 3.79 | 16.02 | 60.75 | 3.33 | 0.13 | 0.27 |
| 75.69 | 17.56 | 3.59 | 16.34 | 58.60 | 3.34 | 0.11 | 0.26 |
| 75.78 | 16.85 | 3.39 | 16.66 | 56.46 | 3.35 | 0.11 | 0.24 |
| 75.88 | 16.41 | 3.27 | 16.73 | 54.66 | 3.36 | 0.10 | 0.23 |
| 75.96 | 16.11 | 3.18 | 16.62 | 52.90 | 3.35 | 0.09 | 0.23 |
| 76.05 | 16.04 | 3.16 | 16.34 | 51.65 | 3.34 | 0.08 | 0.23 |
| 76.14 | 15.97 | 3.14 | 16.25 | 51.00 | 3.34 | 0.08 | 0.22 |
| 76.26 | 16.07 | 3.16 | 16.16 | 51.09 | 3.34 | 0.08 | 0.23 |
| 76.36 | 16.07 | 3.16 | 16.26 | 51.38 | 3.34 | 0.08 | 0.23 |
| 76.41 | 16.07 | 3.16 | 16.31 | 51.50 | 3.34 | 0.08 | 0.23 |
| 76.51 | 15.84 | 3.09 | 16.56 | 51.17 | 3.35 | 0.08 | 0.22 |
| 76.65 | 15.50 | 2.99 | 17.04 | 51.04 | 3.37 | 0.08 | 0.21 |
| 76.72 | 15.26 | 2.93 | 17.45 | 51.12 | 3.38 | 0.08 | 0.21 |
| 76.79 | 15.16 | 2.90 | 17.72 | 51.39 | 3.39 | 0.08 | 0.21 |
| 76.89 | 15.23 | 2.91 | 18.36 | 53.53 | 3.41 | 0.08 | 0.21 |
| 76.98 | 15.47 | 2.98 | 20.80 | 61.89 | 3.48 | 0.11 | 0.21 |
| 77.08 | 18.00 | 3.65 | 19.05 | 69.60 | 3.43 | 0.21 | 0.26 |
| 77.18 | 22.18 | 4.77 | 16.19 | 77.29 | 3.34 | 0.23 | 0.34 |
| 77.28 | 26.73 | 5.99 | 14.06 | 84.26 | 3.26 | 0.29 | 0.43 |
| 77.37 | 27.88 | 6.30 | 14.87 | 93.62 | 3.29 | 0.40 | 0.45 |
| 77.42 | 28.76 | 6.53 | 15.41 | 100.64 | 3.31 | 0.49 | 0.47 |
| 77.42 | 30.22 | 6.92 | 15.09 | 104.44 | 3.30 | 0.50 | 0.49 |
| 77.44 | 34.00 | 7.94 | 13.49 | 107.05 | 3.23 | 0.53 | 0.57 |
| 77.48 | 37.40 | 8.85 | 12.47 | 110.31 | 3.19 | 0.60 | 0.63 |
| 77.52 | 40.61 | 9.70 | 11.65 | 113.00 | 3.15 | 0.64 | 0.69 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 77.54 | 42.94 | 10.33 | 11.08 | 114.44 | 3.12 | 0.66 | 0.74 |
| 77.57 | 43.37 | 10.44 | 11.07 | 115.54 | 3.12 | 0.68 | 0.75 |
| 77.62 | 42.26 | 10.14 | 11.44 | 115.93 | 3.14 | 0.69 | 0.72 |
| 77.65 | 40.10 | 9.55 | 12.10 | 115.64 | 3.17 | 0.66 | 0.68 |
| 77.67 | 38.72 | 9.18 | 12.34 | 113.32 | 3.18 | 0.65 | 0.66 |
| 77.71 | 37.91 | 8.96 | 12.41 | 111.24 | 3.19 | 0.59 | 0.64 |
| 77.71 | 37.03 | 8.73 | 12.35 | 107.78 | 3.18 | 0.58 | 0.62 |
| 77.76 | 34.77 | 8.12 | 12.85 | 104.25 | 3.20 | 0.52 | 0.58 |
| 77.81 | 31.76 | 7.31 | 13.53 | 98.88 | 3.23 | 0.45 | 0.52 |
| 77.90 | 29.03 | 6.57 | 14.40 | 94.60 | 3.27 | 0.39 | 0.47 |
| 77.95 | 27.32 | 6.11 | 15.14 | 92.44 | 3.30 | 0.37 | 0.44 |
| 78.01 | 26.34 | 5.84 | 15.63 | 91.29 | 3.32 | 0.38 | 0.42 |
| 78.10 | 27.59 | 6.17 | 14.49 | 89.37 | 3.27 | 0.35 | 0.44 |
| 78.16 | 36.29 | 8.49 | 9.98 | 84.71 | 3.07 | 0.33 | 0.61 |
| 78.24 | 48.94 | 11.86 | 6.66 | 79.05 | 2.86 | 0.54 | 0.70 |
| 78.29 | 64.83 | 16.10 | 4.54 | 73.14 | 2.68 | 0.33 | 0.69 |
| 78.39 | 77.42 | 19.44 | 3.56 | 69.27 | 2.58 | 0.24 | 0.68 |
| 78.47 | 87.30 | 22.06 | 3.11 | 68.51 | 2.52 | 0.23 | 0.68 |
| 78.53 | 92.74 | 23.49 | 3.05 | 71.72 | 2.51 | 0.29 | 0.69 |
| 78.62 | 94.25 | 23.88 | 3.25 | 77.71 | 2.54 | 0.48 | 0.70 |
| 78.68 | 91.22 | 23.06 | 3.64 | 84.02 | 2.59 | 0.72 | 0.72 |
| 78.69 | 92.97 | 23.52 | 3.81 | 89.57 | 2.61 | 0.73 | 0.73 |
| 78.78 | 93.95 | 23.76 | 4.00 | 95.10 | 2.63 | 0.74 | 0.74 |
| 78.81 | 94.86 | 24.00 | 4.25 | 102.04 | 2.65 | 0.75 | 0.75 |
| 78.92 | 85.28 | 21.43 | 5.01 | 107.35 | 2.73 | 0.76 | 0.76 |
| 79.03 | 72.83 | 18.11 | 5.93 | 107.43 | 2.81 | 0.76 | 0.76 |
| 79.16 | 68.41 | 16.91 | 5.87 | 99.26 | 2.80 | 0.75 | 0.75 |
| 79.26 | 78.39 | 19.54 | 4.53 | 88.45 | 2.68 | 0.73 | 0.73 |
| 79.35 | 97.35 | 24.54 | 3.42 | 83.92 | 2.56 | 0.72 | 0.72 |
| 79.45 | 114.43 | 29.03 | 2.95 | 85.78 | 2.50 | 0.72 | 0.72 |
| 79.54 | 124.25 | 31.60 | 2.84 | 89.58 | 2.48 | 0.73 | 0.73 |
| 79.64 | 131.23 | 33.41 | 2.75 | 91.91 | 2.47 | 0.73 | 0.73 |
| 79.74 | 153.43 | 39.23 | 2.39 | 93.85 | 2.40 | 0.74 | 0.74 |
| 79.88 | 186.93 | 48.00 | 1.98 | 94.86 | 2.31 | 0.74 | 0.74 |
| 79.98 | 228.94 | 59.00 | 1.62 | 95.73 | 2.20 | 0.74 | 0.74 |
| 80.12 | 248.77 | 64.13 | 1.48 | 95.14 | 2.14 | 0.74 | 0.74 |
| 80.22 | 253.19 | 65.23 | 1.40 | 91.22 | 2.09 | 0.73 | 0.73 |
| 80.36 | 244.79 | 62.94 | 1.37 | 86.07 | 2.06 | 0.72 | 0.72 |
| 80.46 | 238.82 | 61.33 | 1.32 | 81.11 | 2.02 | 0.64 | 0.71 |
| 80.60 | 231.84 | 59.42 | 1.30 | 77.21 | 1.99 | 0.46 | 0.70 |
| 80.70 | 223.91 | 57.30 | 1.30 | 74.37 | 1.99 | 0.37 | 0.69 |
| 80.83 | 213.12 | 54.42 | 1.32 | 72.04 | 2.02 | 0.30 | 0.69 |
| 80.94 | 194.49 | 49.51 | 1.41 | 69.62 | 2.09 | 0.25 | 0.68 |
| 81.01 | 177.96 | 45.17 | 1.50 | 67.91 | 2.15 | 0.21 | 0.68 |
| 81.04 | 164.23 | 41.58 | 1.60 | 66.50 | 2.19 | 0.19 | 0.67 |
| 81.09 | 158.43 | 40.05 | 1.65 | 65.97 | 2.21 | 0.18 | 0.67 |
| 81.13 | 149.59 | 37.74 | 1.75 | 66.04 | 2.25 | 0.18 | 0.67 |
| 81.18 | 136.87 | 34.41 | 1.98 | 67.98 | 2.31 | 0.22 | 0.68 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 81.23 | 123.31 | 30.87 | 2.34 | 72.13 | 2.39 | 0.30 | 0.69 |
| 81.28 | 109.41 | 27.24 | 2.85 | 77.64 | 2.48 | 0.48 | 0.70 |
| 81.33 | 98.17 | 24.30 | 3.46 | 84.19 | 2.57 | 0.72 | 0.72 |
| 81.37 | 88.49 | 21.78 | 4.25 | 92.48 | 2.65 | 0.73 | 0.73 |
| 81.42 | 81.24 | 19.88 | 5.05 | 100.46 | 2.73 | 0.75 | 0.75 |
| 81.47 | 75.77 | 18.46 | 5.75 | 106.15 | 2.79 | 0.76 | 0.76 |
| 81.52 | 71.99 | 17.47 | 6.25 | 109.13 | 2.83 | 0.76 | 0.76 |
| 81.56 | 70.98 | 17.20 | 6.46 | 111.09 | 2.85 | 0.77 | 0.77 |
| 81.61 | 70.58 | 17.08 | 6.60 | 112.75 | 2.86 | 0.77 | 0.77 |
| 81.64 | 68.79 | 16.62 | 6.89 | 114.41 | 2.88 | 0.77 | 0.77 |
| 81.70 | 62.18 | 14.89 | 7.85 | 116.91 | 2.94 | 0.78 | 0.78 |
| 81.75 | 54.38 | 12.87 | 9.25 | 118.94 | 3.03 | 0.76 | 0.92 |
| 81.79 | 46.89 | 10.92 | 10.91 | 119.14 | 3.11 | 0.73 | 0.78 |
| 81.82 | 41.90 | 9.62 | 12.12 | 116.62 | 3.17 | 0.68 | 0.69 |
| 81.86 | 37.62 | 8.51 | 13.21 | 112.49 | 3.22 | 0.61 | 0.61 |
| 81.91 | 34.01 | 7.57 | 14.21 | 107.66 | 3.26 | 0.54 | 0.54 |
| 81.95 | 30.63 | 6.70 | 15.27 | 102.27 | 3.30 | 0.48 | 0.48 |
| 82.00 | 27.33 | 5.84 | 16.41 | 95.81 | 3.34 | 0.41 | 0.42 |
| 82.09 | 24.26 | 5.04 | 17.74 | 89.46 | 3.39 | 0.33 | 0.36 |
| 82.15 | 21.66 | 4.37 | 19.38 | 84.64 | 3.44 | 0.29 | 0.31 |
| 82.19 | 19.83 | 3.89 | 20.80 | 81.03 | 3.48 | 0.27 | 0.28 |
| 82.26 | 18.38 | 3.52 | 22.06 | 77.56 | 3.52 | 0.23 | 0.25 |
| 82.34 | 17.00 | 3.16 | 23.49 | 74.17 | 3.56 | 0.21 | 0.23 |
| 82.39 | 15.65 | 2.81 | 25.58 | 71.81 | 3.61 | 0.20 | 0.20 |
| 82.48 | 14.77 | 2.58 | 27.14 | 69.97 | 3.64 | 0.18 | 0.18 |
| 82.58 | 14.64 | 2.54 | 26.84 | 68.21 | 3.64 | 0.17 | 0.18 |
| 82.62 | 14.74 | 2.57 | 25.95 | 66.60 | 3.62 | 0.16 | 0.18 |
| 82.70 | 14.88 | 2.60 | 25.23 | 65.56 | 3.60 | 0.15 | 0.19 |
| 82.77 | 14.81 | 2.58 | 24.98 | 64.46 | 3.59 | 0.15 | 0.18 |
| 82.87 | 15.08 | 2.65 | 24.19 | 64.01 | 3.57 | 0.14 | 0.19 |
| 82.96 | 16.23 | 2.94 | 21.57 | 63.38 | 3.51 | 0.14 | 0.21 |
| 83.06 | 18.22 | 3.45 | 18.38 | 63.34 | 3.41 | 0.14 | 0.25 |
| 83.16 | 21.39 | 4.26 | 14.82 | 63.10 | 3.29 | 0.14 | 0.30 |
| 83.25 | 24.46 | 5.04 | 12.49 | 62.94 | 3.19 | 0.15 | 0.36 |
| 83.34 | 27.20 | 5.74 | 10.91 | 62.57 | 3.11 | 0.15 | 0.41 |
| 83.44 | 28.34 | 6.03 | 10.55 | 63.55 | 3.10 | 0.15 | 0.43 |
| 83.54 | 28.75 | 6.12 | 10.60 | 64.89 | 3.10 | 0.17 | 0.44 |
| 83.64 | 28.61 | 6.08 | 10.93 | 66.49 | 3.12 | 0.17 | 0.43 |
| 83.73 | 27.70 | 5.84 | 11.68 | 68.29 | 3.15 | 0.18 | 0.42 |
| 83.83 | 27.26 | 5.73 | 12.30 | 70.46 | 3.18 | 0.20 | 0.41 |
| 83.85 | 26.83 | 5.62 | 13.07 | 73.38 | 3.21 | 0.21 | 0.40 |
| 83.89 | 27.47 | 5.78 | 13.14 | 75.93 | 3.22 | 0.24 | 0.41 |
| 83.94 | 28.11 | 5.94 | 13.69 | 81.26 | 3.24 | 0.26 | 0.42 |
| 84.04 | 29.26 | 6.23 | 13.80 | 85.92 | 3.25 | 0.34 | 0.44 |
| 84.09 | 30.40 | 6.51 | 13.83 | 90.10 | 3.25 | 0.36 | 0.47 |
| 84.13 | 31.28 | 6.74 | 13.65 | 91.94 | 3.24 | 0.37 | 0.48 |
| 84.18 | 31.68 | 6.83 | 13.70 | 93.61 | 3.24 | 0.40 | 0.49 |
| 84.25 | 31.52 | 6.79 | 13.97 | 94.85 | 3.25 | 0.41 | 0.48 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 84.33 | 30.64 | 6.56 | 14.57 | 95.60 | 3.28 | 0.41 | 0.47 |
| 84.37 | 29.46 | 6.26 | 15.33 | 95.90 | 3.31 | 0.41 | 0.45 |
| 84.46 | 28.35 | 5.97 | 15.91 | 94.98 | 3.33 | 0.41 | 0.43 |
| 84.52 | 27.50 | 5.75 | 16.25 | 93.43 | 3.34 | 0.38 | 0.41 |
| 84.57 | 26.90 | 5.59 | 16.32 | 91.27 | 3.34 | 0.36 | 0.40 |
| 84.67 | 26.52 | 5.49 | 16.38 | 90.00 | 3.34 | 0.34 | 0.39 |
| 84.71 | 26.15 | 5.40 | 16.62 | 89.72 | 3.35 | 0.34 | 0.39 |
| 84.81 | 25.58 | 5.25 | 17.32 | 90.86 | 3.38 | 0.35 | 0.37 |
| 84.86 | 24.84 | 5.06 | 18.32 | 92.62 | 3.41 | 0.37 | 0.36 |
| 84.91 | 24.06 | 4.86 | 19.36 | 94.03 | 3.44 | 0.38 | 0.35 |
| 85.00 | 23.42 | 4.69 | 20.18 | 94.63 | 3.47 | 0.39 | 0.33 |
| 85.05 | 22.81 | 4.53 | 20.72 | 93.94 | 3.48 | 0.39 | 0.32 |
| 85.15 | 22.34 | 4.41 | 20.94 | 92.30 | 3.49 | 0.36 | 0.31 |
| 85.19 | 21.80 | 4.27 | 20.88 | 89.13 | 3.49 | 0.34 | 0.30 |
| 85.29 | 21.33 | 4.15 | 20.74 | 85.98 | 3.48 | 0.30 | 0.30 |
| 85.35 | 20.72 | 3.99 | 20.84 | 83.14 | 3.49 | 0.28 | 0.28 |
| 85.42 | 20.08 | 3.82 | 21.32 | 81.54 | 3.50 | 0.27 | 0.27 |
| 85.48 | 19.40 | 3.65 | 22.03 | 80.45 | 3.52 | 0.26 | 0.26 |
| 85.55 | 18.77 | 3.49 | 22.80 | 79.50 | 3.54 | 0.25 | 0.25 |
| 85.63 | 18.19 | 3.34 | 23.58 | 78.76 | 3.56 | 0.25 | 0.24 |
| 85.68 | 17.62 | 3.19 | 24.50 | 78.25 | 3.58 | 0.24 | 0.23 |
| 85.77 | 17.18 | 3.08 | 25.34 | 78.03 | 3.60 | 0.24 | 0.22 |
| 85.82 | 17.04 | 3.04 | 25.74 | 78.34 | 3.61 | 0.24 | 0.22 |
| 85.89 | 17.42 | 3.13 | 25.13 | 78.79 | 3.60 | 0.25 | 0.22 |
| 85.96 | 18.33 | 3.36 | 23.51 | 79.01 | 3.56 | 0.25 | 0.24 |
| 86.03 | 19.71 | 3.71 | 21.16 | 78.44 | 3.49 | 0.25 | 0.26 |
| 86.11 | 21.06 | 4.04 | 19.14 | 77.40 | 3.44 | 0.24 | 0.29 |
| 86.16 | 22.11 | 4.30 | 17.71 | 76.21 | 3.39 | 0.23 | 0.31 |
| 86.25 | 21.67 | 4.19 | 18.09 | 75.81 | 3.40 | 0.22 | 0.30 |
| 86.36 | 19.98 | 3.76 | 19.76 | 74.32 | 3.45 | 0.23 | 0.27 |
| 86.50 | 18.16 | 3.30 | 22.08 | 72.85 | 3.52 | 0.19 | 0.24 |
| 86.51 | 17.25 | 3.07 | 23.09 | 70.91 | 3.55 | 0.19 | 0.22 |
| 86.52 | 17.32 | 3.09 | 22.53 | 69.58 | 3.53 | 0.19 | 0.22 |
| 86.57 | 17.35 | 3.10 | 21.58 | 66.80 | 3.51 | 0.17 | 0.22 |
| 86.65 | 17.39 | 3.10 | 20.48 | 63.50 | 3.48 | 0.13 | 0.22 |
| 86.71 | 17.35 | 3.09 | 19.65 | 60.73 | 3.45 | 0.13 | 0.22 |
| 86.80 | 17.08 | 3.02 | 19.57 | 59.11 | 3.45 | 0.12 | 0.22 |
| 86.90 | 16.48 | 2.87 | 20.04 | 57.42 | 3.46 | 0.11 | 0.20 |
| 86.99 | 15.77 | 2.69 | 20.75 | 55.74 | 3.48 | 0.10 | 0.19 |
| 87.04 | 15.26 | 2.56 | 21.24 | 54.32 | 3.50 | 0.09 | 0.18 |
| 87.14 | 15.16 | 2.53 | 21.16 | 53.51 | 3.49 | 0.09 | 0.18 |
| 87.19 | 15.36 | 2.58 | 20.70 | 53.36 | 3.48 | 0.09 | 0.18 |
| 87.28 | 15.87 | 2.70 | 20.13 | 54.40 | 3.46 | 0.09 | 0.19 |
| 87.38 | 16.51 | 2.86 | 19.47 | 55.67 | 3.45 | 0.10 | 0.20 |
| 87.43 | 17.18 | 3.03 | 18.79 | 56.85 | 3.42 | 0.11 | 0.22 |
| 87.52 | 17.76 | 3.17 | 18.12 | 57.36 | 3.40 | 0.11 | 0.23 |
| 87.61 | 18.23 | 3.28 | 17.55 | 57.58 | 3.38 | 0.11 | 0.23 |
| 87.66 | 18.53 | 3.35 | 17.13 | 57.47 | 3.37 | 0.11 | 0.24 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 87.76 | 18.57 | 3.36 | 17.00 | 57.12 | 3.37 | 0.11 | 0.24 |
| 87.84 | 18.43 | 3.32 | 17.02 | 56.58 | 3.37 | 0.10 | 0.24 |
| 87.91 | 18.13 | 3.25 | 17.27 | 56.08 | 3.37 | 0.10 | 0.23 |
| 88.00 | 17.79 | 3.16 | 17.58 | 55.54 | 3.39 | 0.10 | 0.23 |
| 88.11 | 17.46 | 3.07 | 17.98 | 55.23 | 3.40 | 0.10 | 0.22 |
| 88.19 | 17.22 | 3.01 | 18.27 | 55.01 | 3.41 | 0.10 | 0.22 |
| 88.25 | 17.08 | 2.98 | 18.42 | 54.79 | 3.41 | 0.10 | 0.21 |
| 88.34 | 17.02 | 2.96 | 18.36 | 54.27 | 3.41 | 0.09 | 0.21 |
| 88.44 | 16.98 | 2.94 | 18.20 | 53.59 | 3.41 | 0.09 | 0.21 |
| 88.54 | 16.98 | 2.94 | 17.99 | 52.93 | 3.40 | 0.09 | 0.21 |
| 88.64 | 16.95 | 2.93 | 17.92 | 52.52 | 3.40 | 0.08 | 0.21 |
| 88.72 | 16.88 | 2.91 | 18.00 | 52.42 | 3.40 | 0.08 | 0.21 |
| 88.82 | 16.82 | 2.89 | 18.16 | 52.53 | 3.40 | 0.08 | 0.21 |
| 88.91 | 16.72 | 2.87 | 18.42 | 52.79 | 3.41 | 0.08 | 0.20 |
| 89.01 | 16.62 | 2.84 | 18.68 | 53.02 | 3.42 | 0.09 | 0.20 |
| 89.10 | 16.49 | 2.80 | 18.99 | 53.22 | 3.43 | 0.09 | 0.20 |
| 89.19 | 16.32 | 2.76 | 19.19 | 52.91 | 3.44 | 0.09 | 0.20 |
| 89.30 | 16.21 | 2.73 | 18.48 | 50.44 | 3.41 | 0.08 | 0.19 |
| 89.39 | 16.31 | 2.75 | 17.80 | 48.98 | 3.39 | 0.05 | 0.20 |
| 89.49 | 16.62 | 2.82 | 17.53 | 49.49 | 3.38 | 0.07 | 0.20 |
| 89.59 | 16.90 | 2.89 | 18.25 | 52.76 | 3.41 | 0.09 | 0.21 |
| 89.69 | 17.04 | 2.92 | 18.79 | 54.90 | 3.42 | 0.10 | 0.21 |
| 89.73 | 17.68 | 3.08 | 18.14 | 55.86 | 3.40 | 0.10 | 0.22 |
| 89.78 | 18.48 | 3.27 | 17.18 | 56.23 | 3.37 | 0.10 | 0.23 |
| 89.83 | 19.36 | 3.49 | 16.22 | 56.56 | 3.34 | 0.10 | 0.25 |
| 89.88 | 19.63 | 3.55 | 16.06 | 57.05 | 3.33 | 0.11 | 0.25 |
| 89.93 | 19.86 | 3.61 | 16.01 | 57.77 | 3.33 | 0.11 | 0.26 |
| 90.00 | 20.24 | 3.70 | 15.90 | 58.79 | 3.33 | 0.11 | 0.26 |
| 90.07 | 20.88 | 3.85 | 15.53 | 59.82 | 3.31 | 0.12 | 0.28 |
| 90.12 | 21.62 | 4.03 | 15.19 | 61.24 | 3.30 | 0.13 | 0.29 |
| 90.22 | 22.26 | 4.19 | 15.01 | 62.84 | 3.29 | 0.14 | 0.30 |
| 90.27 | 23.04 | 4.37 | 15.02 | 65.70 | 3.29 | 0.15 | 0.31 |
| 90.36 | 24.99 | 4.85 | 14.09 | 68.34 | 3.26 | 0.18 | 0.35 |
| 90.46 | 27.46 | 5.45 | 12.89 | 70.27 | 3.21 | 0.20 | 0.39 |
| 90.50 | 29.28 | 5.89 | 12.05 | 71.01 | 3.17 | 0.20 | 0.42 |
| 90.61 | 29.48 | 5.94 | 12.02 | 71.39 | 3.17 | 0.20 | 0.42 |
| 90.66 | 28.70 | 5.75 | 12.38 | 71.12 | 3.18 | 0.20 | 0.41 |
| 90.75 | 27.62 | 5.48 | 12.73 | 69.74 | 3.20 | 0.19 | 0.39 |
| 90.84 | 26.17 | 5.12 | 13.28 | 67.94 | 3.22 | 0.17 | 0.37 |
| 90.89 | 24.72 | 4.76 | 13.90 | 66.20 | 3.25 | 0.16 | 0.34 |
| 90.99 | 23.48 | 4.45 | 14.63 | 65.12 | 3.28 | 0.15 | 0.32 |
| 91.04 | 22.50 | 4.21 | 15.24 | 64.21 | 3.30 | 0.15 | 0.30 |
| 91.14 | 21.59 | 3.99 | 15.98 | 63.69 | 3.33 | 0.14 | 0.28 |
| 91.22 | 20.75 | 3.78 | 16.73 | 63.19 | 3.36 | 0.14 | 0.27 |
| 91.28 | 19.83 | 3.55 | 17.61 | 62.55 | 3.39 | 0.14 | 0.25 |
| 91.37 | 19.26 | 3.41 | 18.11 | 61.75 | 3.40 | 0.13 | 0.24 |
| 91.47 | 18.99 | 3.34 | 18.18 | 60.75 | 3.40 | 0.13 | 0.24 |
| 91.61 | 19.26 | 3.40 | 17.69 | 60.19 | 3.39 | 0.12 | 0.24 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 91.71 | 19.40 | 3.43 | 17.48 | 59.97 | 3.38 | 0.12 | 0.25 |
| 91.81 | 19.50 | 3.45 | 17.39 | 60.03 | 3.38 | 0.12 | 0.25 |
| 91.87 | 19.36 | 3.42 | 17.46 | 59.68 | 3.38 | 0.12 | 0.24 |
| 92.00 | 19.38 | 3.42 | 16.82 | 57.50 | 3.36 | 0.12 | 0.24 |
| 92.10 | 19.41 | 3.42 | 16.30 | 55.77 | 3.34 | 0.09 | 0.24 |
| 92.20 | 19.62 | 3.47 | 15.85 | 54.98 | 3.32 | 0.09 | 0.25 |
| 92.33 | 19.76 | 3.50 | 16.12 | 56.37 | 3.33 | 0.10 | 0.25 |
| 92.38 | 19.89 | 3.53 | 16.27 | 57.43 | 3.34 | 0.11 | 0.25 |
| 92.43 | 20.03 | 3.56 | 16.28 | 57.96 | 3.34 | 0.11 | 0.25 |
| 92.48 | 19.98 | 3.55 | 16.52 | 58.57 | 3.35 | 0.11 | 0.25 |
| 92.56 | 19.88 | 3.52 | 16.79 | 59.09 | 3.36 | 0.12 | 0.25 |
| 92.63 | 19.64 | 3.46 | 17.17 | 59.41 | 3.37 | 0.12 | 0.25 |
| 92.67 | 19.57 | 3.44 | 17.27 | 59.42 | 3.37 | 0.12 | 0.25 |
| 92.72 | 19.54 | 3.43 | 17.30 | 59.38 | 3.38 | 0.12 | 0.25 |
| 92.77 | 19.64 | 3.46 | 17.18 | 59.37 | 3.37 | 0.12 | 0.25 |
| 92.86 | 19.84 | 3.50 | 16.99 | 59.49 | 3.37 | 0.12 | 0.25 |
| 92.92 | 20.08 | 3.56 | 16.84 | 59.88 | 3.36 | 0.12 | 0.25 |
| 92.97 | 20.21 | 3.59 | 17.01 | 61.03 | 3.37 | 0.12 | 0.26 |
| 93.05 | 20.35 | 3.62 | 17.17 | 62.12 | 3.37 | 0.14 | 0.26 |
| 93.10 | 20.62 | 3.68 | 17.13 | 63.07 | 3.37 | 0.14 | 0.26 |
| 93.16 | 21.10 | 3.79 | 16.68 | 63.28 | 3.35 | 0.14 | 0.27 |
| 93.25 | 21.70 | 3.94 | 16.06 | 63.20 | 3.33 | 0.14 | 0.28 |
| 93.35 | 22.78 | 4.19 | 14.99 | 62.84 | 3.29 | 0.14 | 0.30 |
| 93.40 | 23.19 | 4.29 | 14.52 | 62.27 | 3.27 | 0.14 | 0.31 |
| 93.49 | 23.25 | 4.30 | 14.38 | 61.82 | 3.27 | 0.13 | 0.31 |
| 93.56 | 22.71 | 4.17 | 14.77 | 61.55 | 3.28 | 0.13 | 0.30 |
| 93.64 | 22.88 | 4.21 | 14.66 | 61.65 | 3.28 | 0.13 | 0.30 |
| 93.73 | 23.63 | 4.38 | 14.34 | 62.81 | 3.27 | 0.13 | 0.31 |
| 93.83 | 24.91 | 4.69 | 13.81 | 64.72 | 3.25 | 0.15 | 0.33 |
| 93.88 | 26.43 | 5.05 | 13.44 | 67.85 | 3.23 | 0.17 | 0.36 |
| 93.97 | 27.01 | 5.18 | 13.58 | 70.35 | 3.24 | 0.20 | 0.37 |
| 94.07 | 26.43 | 5.04 | 14.48 | 72.95 | 3.27 | 0.20 | 0.36 |
| 94.17 | 25.76 | 4.87 | 15.51 | 75.57 | 3.31 | 0.22 | 0.35 |
| 94.26 | 26.70 | 5.09 | 15.04 | 76.60 | 3.29 | 0.25 | 0.36 |
| 94.36 | 27.88 | 5.37 | 15.22 | 81.75 | 3.30 | 0.23 | 0.38 |
| 94.45 | 29.47 | 5.75 | 15.14 | 87.02 | 3.30 | 0.34 | 0.41 |
| 94.55 | 35.88 | 7.27 | 12.61 | 91.74 | 3.19 | 0.39 | 0.52 |
| 94.64 | 48.46 | 10.27 | 8.71 | 89.52 | 3.00 | 0.73 | 0.73 |
| 94.72 | 59.93 | 13.01 | 6.55 | 85.22 | 2.85 | 0.72 | 0.72 |
| 94.74 | 73.87 | 16.33 | 4.89 | 79.85 | 2.72 | 0.58 | 0.71 |
| 94.77 | 84.50 | 18.86 | 4.08 | 76.98 | 2.64 | 0.45 | 0.70 |
| 94.85 | 97.35 | 21.92 | 3.39 | 74.39 | 2.56 | 0.37 | 0.69 |
| 94.90 | 102.75 | 23.20 | 3.24 | 75.17 | 2.54 | 0.39 | 0.70 |
| 94.95 | 105.32 | 23.80 | 3.27 | 77.89 | 2.54 | 0.49 | 0.70 |
| 95.01 | 104.68 | 23.63 | 3.61 | 85.22 | 2.58 | 0.72 | 0.72 |
| 95.09 | 100.83 | 22.70 | 4.16 | 94.37 | 2.64 | 0.74 | 0.74 |
| 95.14 | 94.49 | 21.18 | 5.05 | 107.02 | 2.73 | 0.76 | 0.76 |
| 95.23 | 86.42 | 19.25 | 6.10 | 117.34 | 2.82 | 0.78 | 0.78 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 95.29 | 78.06 | 17.25 | 7.36 | 126.89 | 2.91 | 0.79 | 0.79 |
| 95.38 | 71.11 | 15.59 | 8.45 | 131.69 | 2.98 | 0.80 | 0.80 |
| 95.43 | 67.53 | 14.73 | 9.06 | 133.43 | 3.02 | 0.97 | 1.05 |
| 95.52 | 67.83 | 14.79 | 8.96 | 132.50 | 3.01 | 0.95 | 1.06 |
| 95.57 | 70.23 | 15.35 | 8.40 | 128.95 | 2.98 | 0.80 | 0.80 |
| 95.67 | 71.24 | 15.58 | 7.93 | 123.49 | 2.95 | 0.79 | 0.79 |
| 95.77 | 66.52 | 14.45 | 8.22 | 118.72 | 2.97 | 0.78 | 0.78 |
| 95.86 | 56.97 | 12.17 | 9.76 | 118.80 | 3.06 | 0.69 | 0.87 |
| 95.95 | 52.94 | 11.21 | 10.40 | 116.56 | 3.09 | 0.74 | 0.80 |
| 96.03 | 46.73 | 9.74 | 12.16 | 118.40 | 3.17 | 0.62 | 0.70 |
| 96.11 | 51.55 | 10.87 | 10.92 | 118.64 | 3.12 | 0.68 | 0.78 |
| 96.20 | 59.20 | 12.66 | 9.84 | 124.65 | 3.06 | 0.80 | 0.90 |
| 96.30 | 80.15 | 17.59 | 7.15 | 125.73 | 2.90 | 0.79 | 0.79 |
| 96.39 | 101.37 | 22.58 | 5.51 | 124.50 | 2.77 | 0.79 | 0.79 |
| 96.50 | 122.96 | 27.64 | 4.35 | 120.31 | 2.67 | 0.78 | 0.78 |
| 96.59 | 144.96 | 32.80 | 3.25 | 106.72 | 2.54 | 0.76 | 0.76 |
| 96.69 | 164.86 | 37.45 | 2.44 | 91.36 | 2.41 | 0.73 | 0.73 |
| 96.78 | 180.18 | 41.02 | 1.89 | 77.51 | 2.29 | 0.47 | 0.70 |
| 96.87 | 185.95 | 42.35 | 1.72 | 72.98 | 2.24 | 0.33 | 0.69 |
| 96.98 | 185.28 | 42.15 | 1.69 | 71.40 | 2.23 | 0.29 | 0.69 |
| 97.02 | 177.79 | 40.38 | 1.78 | 71.90 | 2.26 | 0.30 | 0.69 |
| 97.06 | 176.40 | 40.04 | 1.83 | 73.47 | 2.27 | 0.34 | 0.69 |
| 97.12 | 175.60 | 39.84 | 1.91 | 76.16 | 2.30 | 0.42 | 0.70 |
| 97.16 | 176.98 | 40.15 | 1.98 | 79.48 | 2.31 | 0.56 | 0.71 |
| 97.21 | 173.67 | 39.35 | 2.13 | 83.99 | 2.35 | 0.72 | 0.72 |
| 97.27 | 170.50 | 38.59 | 2.31 | 89.17 | 2.39 | 0.73 | 0.73 |
| 97.33 | 168.21 | 38.04 | 2.46 | 93.67 | 2.42 | 0.74 | 0.74 |
| 97.40 | 165.98 | 37.49 | 2.57 | 96.33 | 2.44 | 0.74 | 0.74 |
| 97.45 | 163.92 | 37.00 | 2.64 | 97.51 | 2.45 | 0.74 | 0.74 |
| 97.50 | 161.39 | 36.39 | 2.76 | 100.38 | 2.47 | 0.75 | 0.75 |
| 97.58 | 155.82 | 35.06 | 2.99 | 104.78 | 2.50 | 0.76 | 0.76 |
| 97.65 | 146.95 | 32.97 | 3.34 | 110.26 | 2.55 | 0.77 | 0.77 |
| 97.69 | 134.43 | 30.04 | 3.79 | 113.95 | 2.60 | 0.77 | 0.77 |
| 97.74 | 121.75 | 27.07 | 4.27 | 115.68 | 2.66 | 0.78 | 0.78 |
| 97.81 | 110.51 | 24.44 | 4.76 | 116.42 | 2.71 | 0.78 | 0.78 |
| 97.88 | 103.09 | 22.69 | 5.14 | 116.63 | 2.74 | 0.78 | 0.78 |
| 97.93 | 108.66 | 23.98 | 4.67 | 111.98 | 2.70 | 0.77 | 0.77 |
| 98.03 | 138.72 | 30.95 | 3.15 | 97.35 | 2.52 | 0.74 | 0.74 |
| 98.15 | 182.62 | 41.12 | 2.03 | 83.50 | 2.33 | 0.71 | 0.71 |
| 98.21 | 228.43 | 51.75 | 1.51 | 78.05 | 2.15 | 0.50 | 0.70 |
| 98.32 | 264.20 | 60.00 | 1.34 | 80.19 | 2.03 | 0.59 | 0.71 |
| 98.42 | 301.85 | 68.69 | 1.25 | 85.96 | 1.92 | 0.72 | 0.72 |
| 98.47 | 349.59 | 79.73 | 1.00 | 79.73 | 1.79 | 0.57 | 0.71 |
| 98.57 | 388.76 | 88.75 | 1.00 | 88.75 | 1.69 | 0.73 | 0.73 |
| 98.70 | 411.84 | 94.00 | 1.00 | 94.00 | 1.61 | 0.74 | 0.74 |
| 98.78 | 404.01 | 92.13 | 1.00 | 92.13 | 1.62 | 0.73 | 0.73 |
| 98.85 | 372.43 | 84.79 | 1.00 | 84.79 | 1.67 | 0.72 | 0.72 |
| 98.86 | 337.78 | 76.77 | 1.00 | 76.77 | 1.74 | 0.45 | 0.70 |

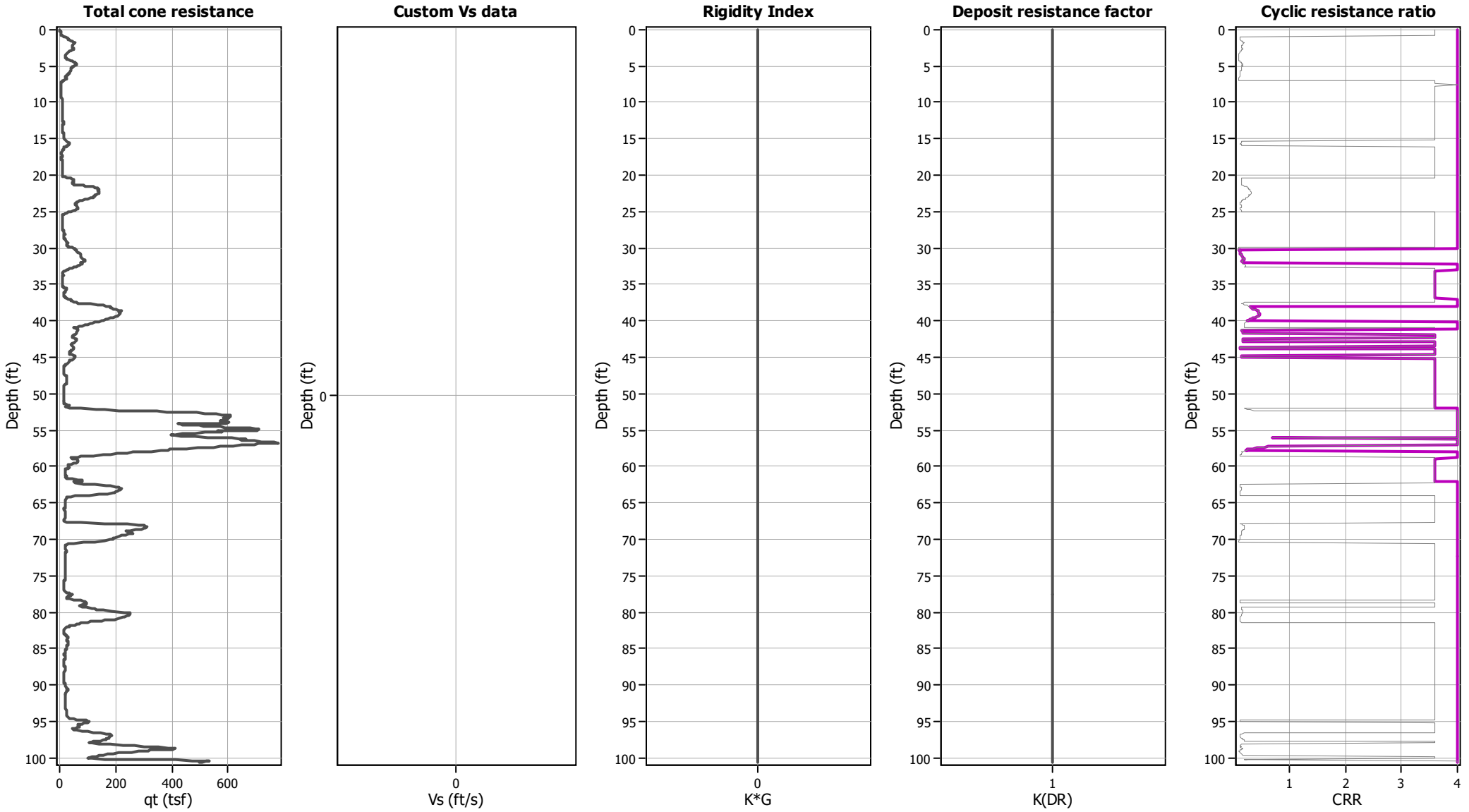
**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 98.92 | 322.73 | 73.26 | 1.00 | 73.26 | 1.77 | 0.33 | 0.69 |
| 98.98 | 318.48 | 72.24 | 1.00 | 72.24 | 1.78 | 0.31 | 0.69 |
| 99.03 | 309.41 | 70.12 | 1.00 | 70.12 | 1.81 | 0.26 | 0.68 |
| 99.11 | 281.64 | 63.67 | 1.00 | 63.67 | 1.90 | 0.15 | 0.67 |
| 99.18 | 255.32 | 57.57 | 1.30 | 74.69 | 1.99 | 0.38 | 0.69 |
| 99.23 | 231.33 | 52.01 | 1.41 | 73.25 | 2.09 | 0.33 | 0.69 |
| 99.32 | 209.84 | 47.02 | 1.62 | 76.01 | 2.20 | 0.42 | 0.70 |
| 99.37 | 189.39 | 42.29 | 1.96 | 83.05 | 2.31 | 0.71 | 0.71 |
| 99.45 | 170.57 | 37.93 | 2.37 | 90.04 | 2.40 | 0.73 | 0.73 |
| 99.56 | 157.24 | 34.83 | 2.76 | 96.01 | 2.47 | 0.74 | 0.74 |
| 99.64 | 147.39 | 32.55 | 3.13 | 101.90 | 2.52 | 0.75 | 0.75 |
| 99.71 | 140.04 | 30.84 | 3.53 | 108.77 | 2.57 | 0.76 | 0.76 |
| 99.75 | 128.26 | 28.12 | 4.04 | 113.72 | 2.63 | 0.77 | 0.77 |
| 99.90 | 116.32 | 25.35 | 4.67 | 118.27 | 2.70 | 0.78 | 0.78 |
| 99.95 | 101.78 | 22.01 | 5.75 | 126.55 | 2.79 | 0.79 | 0.79 |
| 100.04 | 116.32 | 25.32 | 5.03 | 127.45 | 2.73 | 0.79 | 0.79 |
| 100.14 | 159.30 | 35.14 | 3.33 | 116.89 | 2.55 | 0.78 | 0.78 |
| 100.14 | 204.99 | 45.59 | 2.33 | 106.43 | 2.39 | 0.76 | 0.76 |
| 100.15 | 235.79 | 52.64 | 2.00 | 105.52 | 2.32 | 0.76 | 0.76 |
| 100.19 | 258.80 | 57.89 | 1.93 | 111.71 | 2.30 | 0.77 | 0.77 |
| 100.21 | 298.07 | 66.86 | 1.78 | 119.29 | 2.26 | 0.78 | 0.78 |
| 100.24 | 351.88 | 79.16 | 1.37 | 108.37 | 2.06 | 0.76 | 0.76 |
| 100.28 | 410.56 | 92.54 | 1.15 | 106.62 | 1.80 | 0.76 | 0.76 |
| 100.31 | 470.98 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 100.33 | 508.57 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 100.38 | 524.63 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 100.39 | 526.55 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 100.43 | 531.78 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 100.48 | 522.24 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 100.53 | 509.38 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 100.57 | 496.12 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 100.60 | 497.27 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |

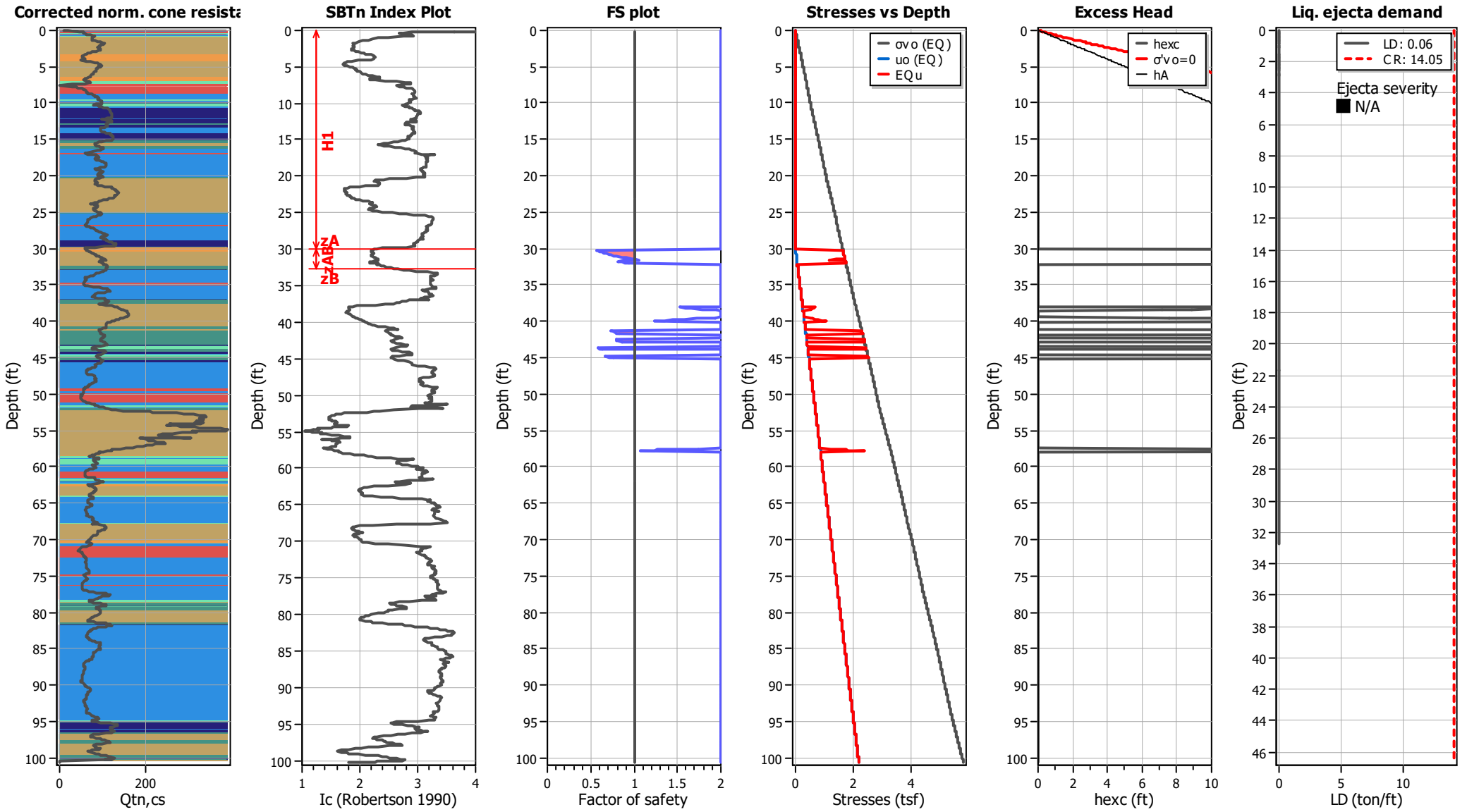
**Abbreviations**

| | |
|---|---|
| $q_t$: | Total cone resistance |
| $K_c$: | Cone resistance correction factor due to fines |
| $Q_{tn,cs}$: | Adjusted and corrected cone resistance due to fines |
| $I_c$: | Soil behavior type index |
| $S_{u(liq)}/\sigma'_v$: | Calculated liquefied undrained strength ratio |
| $S_{u(peak)}/\sigma'_v$: | Calculated peak undrained strength ratio |

## Aging Calculation Estimation

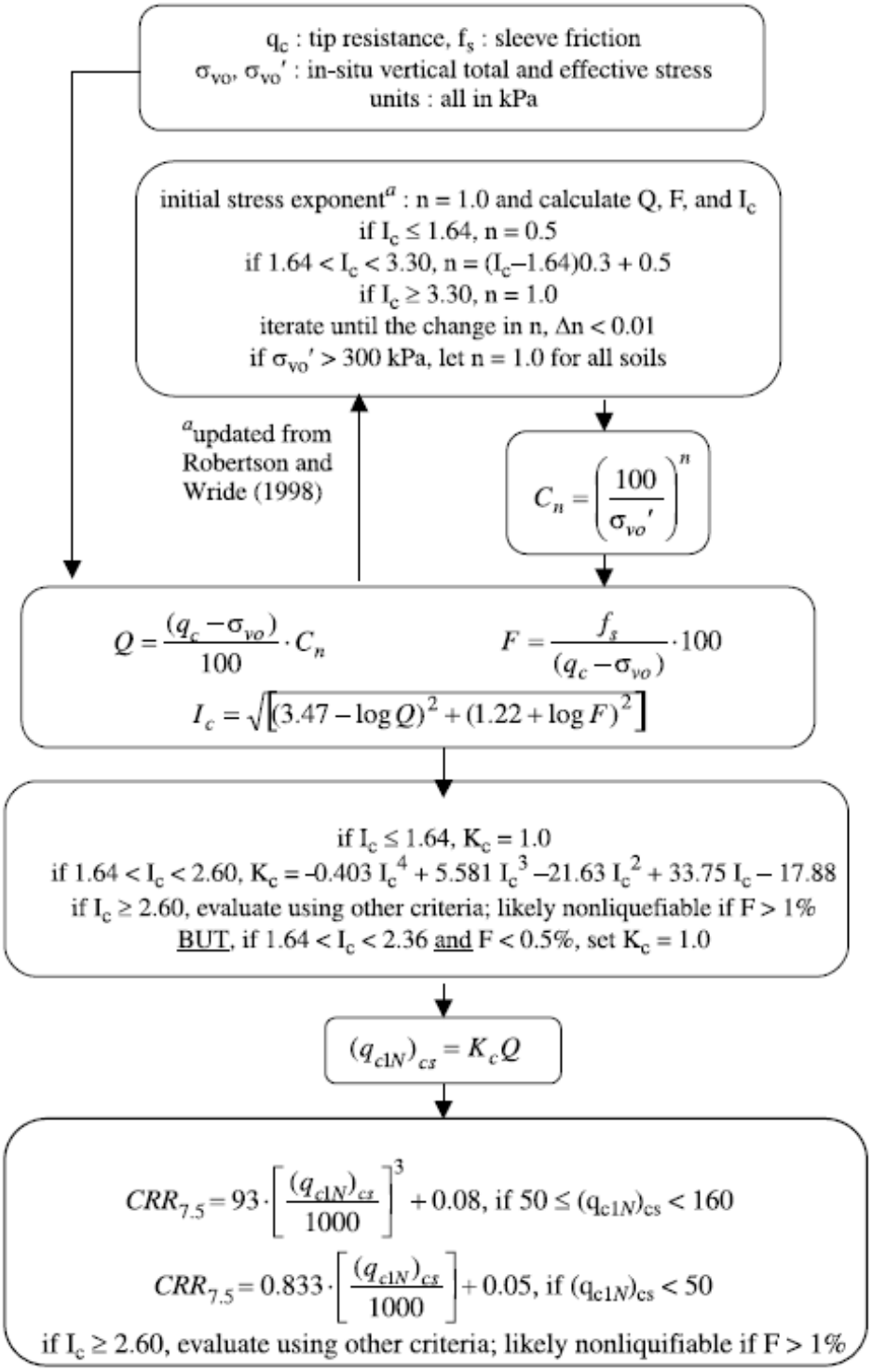


## Ejecta Severity Estimation



## Procedure for the evaluation of soil liquefaction resistance, NCEER (1998)

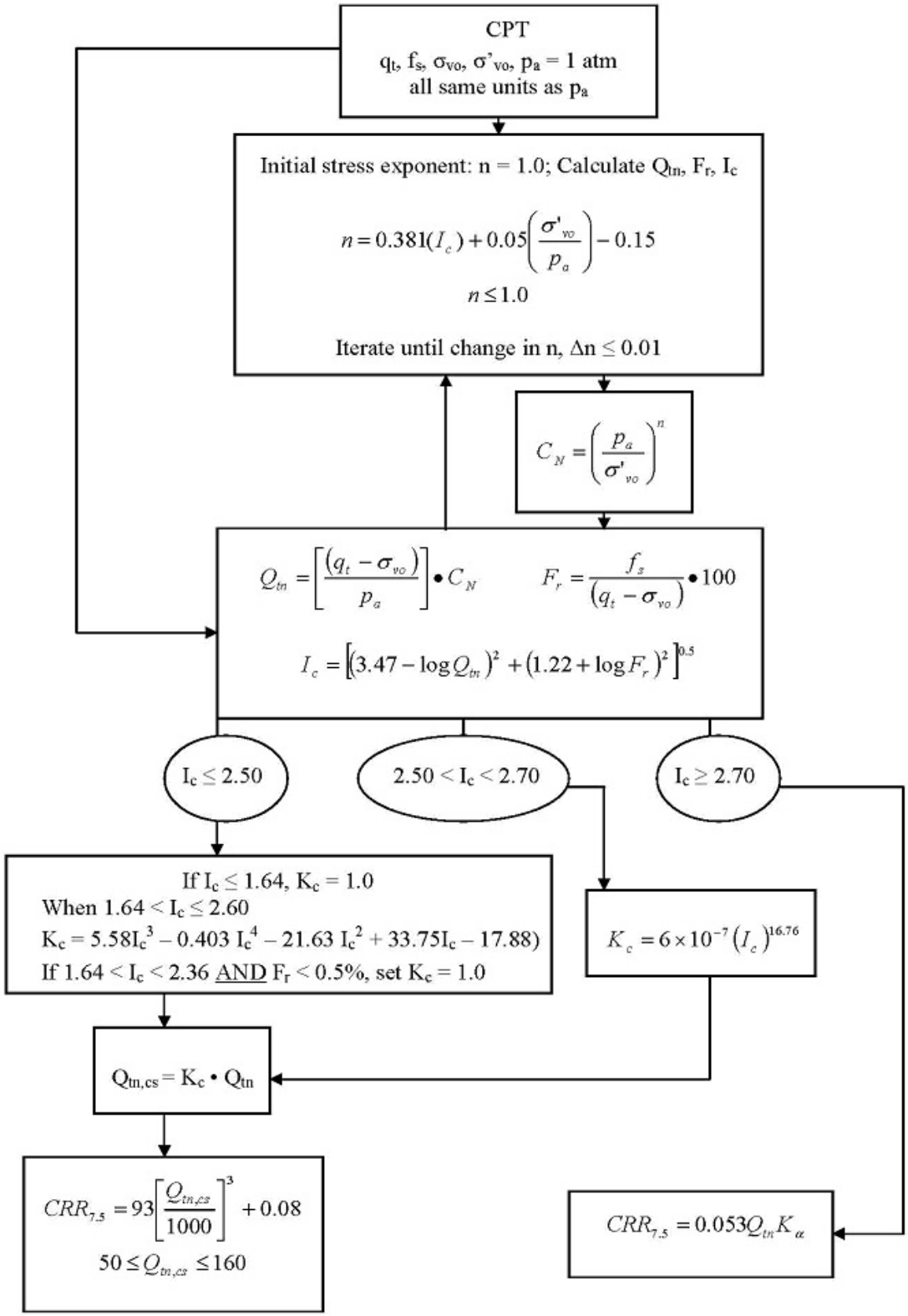
Calculation of soil resistance against liquefaction is performed according to the Robertson & Wride (1998) procedure. The procedure used in the software, slightly differs from the one originally published in NCEER-97-0022 (Proceedings of the NCEER Workshop on Evaluation of Liquefaction Resistance of Soils). The revised procedure is presented below in the form of a flowchart[1]:




[1] "Estimating liquefaction-induced ground settlements from CPT for level ground", G. Zhang, P.K. Robertson, and R.W.I. Brachman

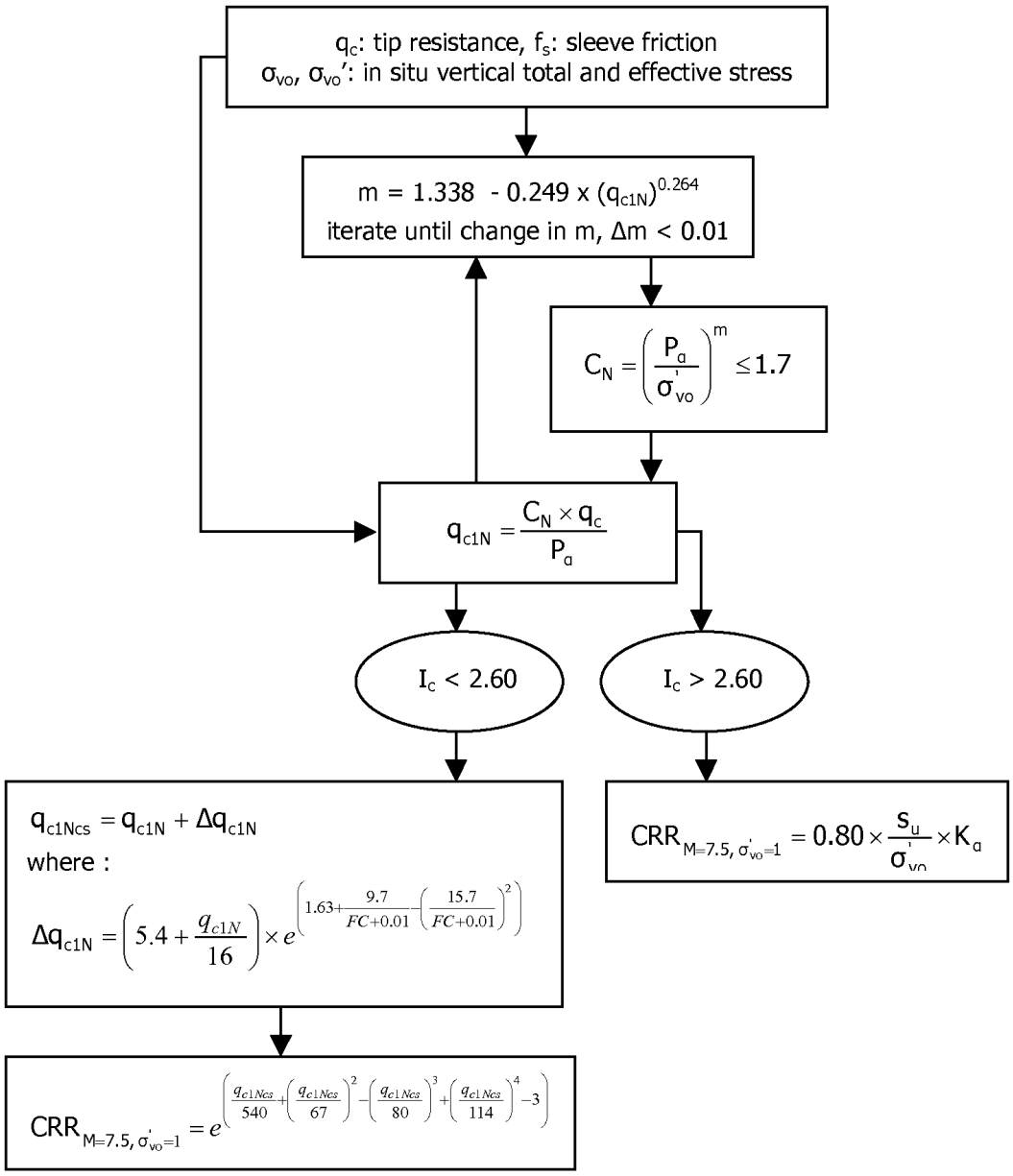
## Procedure for the evaluation of soil liquefaction resistance (all soils), Robertson (2010)

Calculation of soil resistance against liquefaction is performed according to the Robertson & Wride (1998) procedure. This procedure used in the software, slightly differs from the one originally published in NCEER-97-0022 (Proceedings of the NCEER Workshop on Evaluation of Liquefaction Resistance of Soils). The revised procedure is presented below in the form of a flowchart[1]:

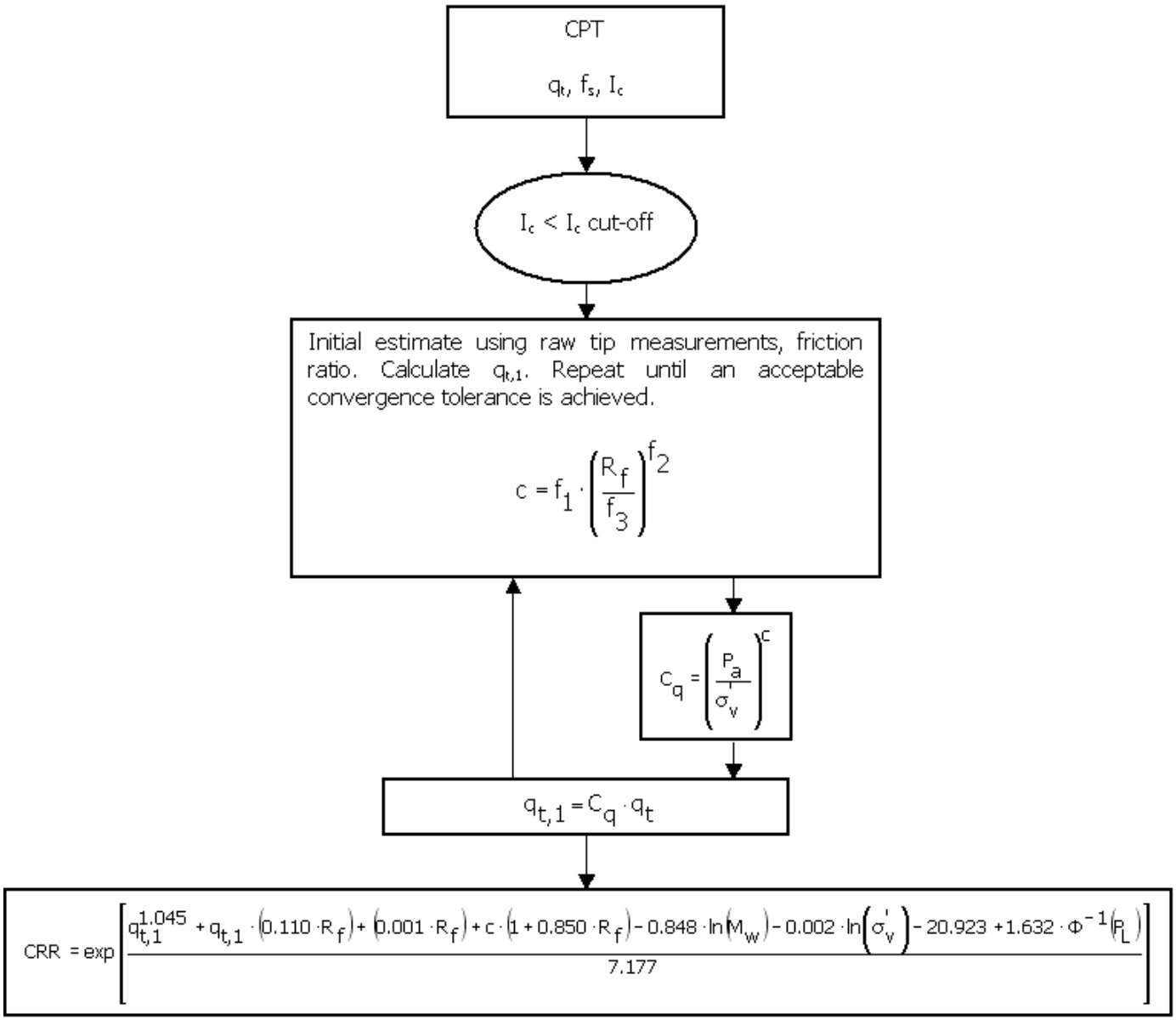



[1] P.K. Robertson, 2009. "Performance based earthquake design using the CPT", Keynote Lecture, International Conference on Performance-based Design in Earthquake Geotechnical Engineering – from case history to practice, IS-Tokyo, June 2009

**Procedure for the evaluation of soil liquefaction resistance, Idriss & Boulanger (2008)**



**Procedure for the evaluation of soil liquefaction resistance (sandy soils), Moss et al. (2006)**



**Procedure for the evaluation of soil liquefaction resistance, Boulanger & Idriss(2014)**

$$FS_{liq} = \frac{CRR_{M=7.5,\sigma'_v=1atm}}{CSR_{M=7.5,\sigma'_v=1atm}}$$

$$CSR_{M=7.5,\sigma'_v=1atm} = 0.65 \frac{\sigma_v}{\sigma'_v} \frac{a_{max}}{g} r_d \frac{1}{MSF} \frac{1}{K_\sigma}$$

$$r_d = \exp\left[\alpha(z) + \beta(z) \cdot M\right]$$

$$\alpha(z) = -1.012 - 1.126 \sin\left(\frac{z}{11.73} + 5.133\right)$$

$$\beta(z) = 0.106 + 0.118 \sin\left(\frac{z}{11.28} + 5.142\right)$$

$$K_\sigma = 1 - C_\sigma \ln\left(\frac{\sigma'_v}{P_a}\right) \le 1.1$$

$$C_\sigma = \frac{1}{37.3 - 8.27\left(q_{c1Ncs}\right)^{0.264}} \le 0.3$$

$$MSF = 1 + \left(MSF_{max} - 1\right)\left(8.64 \exp\left(\frac{-M}{4}\right) - 1.325\right)$$

$$MSF_{max} = 1.09 + \left(\frac{q_{C1Ncs}}{180}\right)^3 \le 2.2$$

$\sigma'_v$ *and* $\sigma_v$ *at start of earthquake shaking*

$$CRR_{M=7.5,\sigma'_v=1atm} = \exp\left(\frac{q_{c1Ncs}}{113} + \left(\frac{q_{c1Ncs}}{1000}\right)^2 - \left(\frac{q_{c1Ncs}}{140}\right)^3 + \left(\frac{q_{c1Ncs}}{137}\right)^4 - 2.80\right)$$

$$q_{c1Ncs} = q_{c1N} + \Delta q_{c1N}$$

$$\Delta q_{c1N} = \left(11.9 + \frac{q_{c1N}}{14.6}\right) \exp\left(1.63 - \frac{9.7}{FC+2} - \left(\frac{15.7}{FC+2}\right)^2\right)$$

$$q_{c1N} = C_{Ne} \frac{q_c}{P_a}$$

$$C_{Ne} = \left(\frac{P_a}{\sigma'_v}\right)^m \le 1.7$$

$$m = 1.338 - 0.249\left(q_{c1Ncs}\right)^{0.264} \quad with \quad 0.264 \le m \le 0.782$$

$$FC = 80\left(I_C + C_{FC}\right) - 137 \quad with \quad 0\% \le FC \le 100\%$$

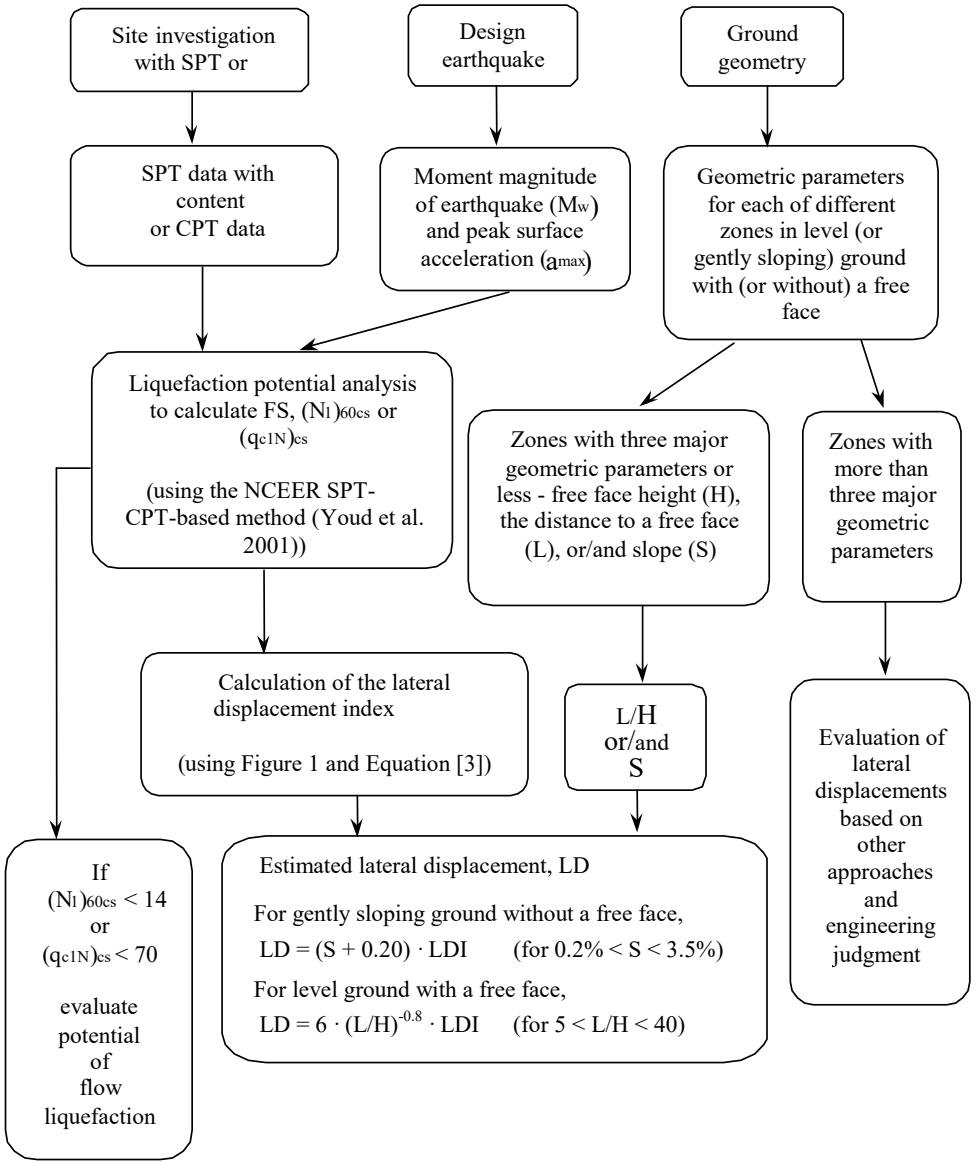
$$I_c = \left[\left(3.47 - \log\left(Q\right)\right)^2 + \left(1.22 + \log\left(F\right)\right)^2\right]^{0.5}$$

$$Q = \left(\frac{q_c - \sigma_{vc}}{P_a}\right)\left(\frac{P_a}{\sigma'_{vc}}\right)^n \; with \; 0.5 \le n \le 1.0 \; per \; Robertson \; \& \; Wride \; (1998)$$

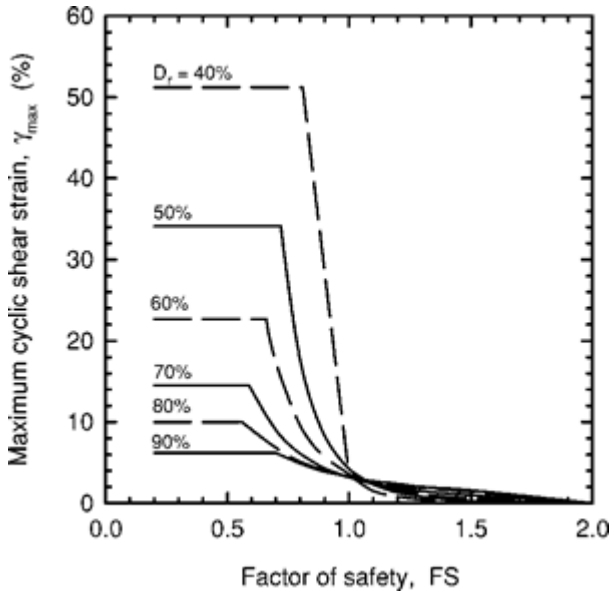
$$F = \left(\frac{f_s}{q_c - \sigma_{vc}}\right) \cdot 100\%$$

$\sigma'_v$ *at time of CPT sounding*

## Procedure for the evaluation of liquefaction-induced lateral spreading displacements




[1] Flow chart illustrating major steps in estimating liquefaction-induced lateral spreading displacements using the proposed approach



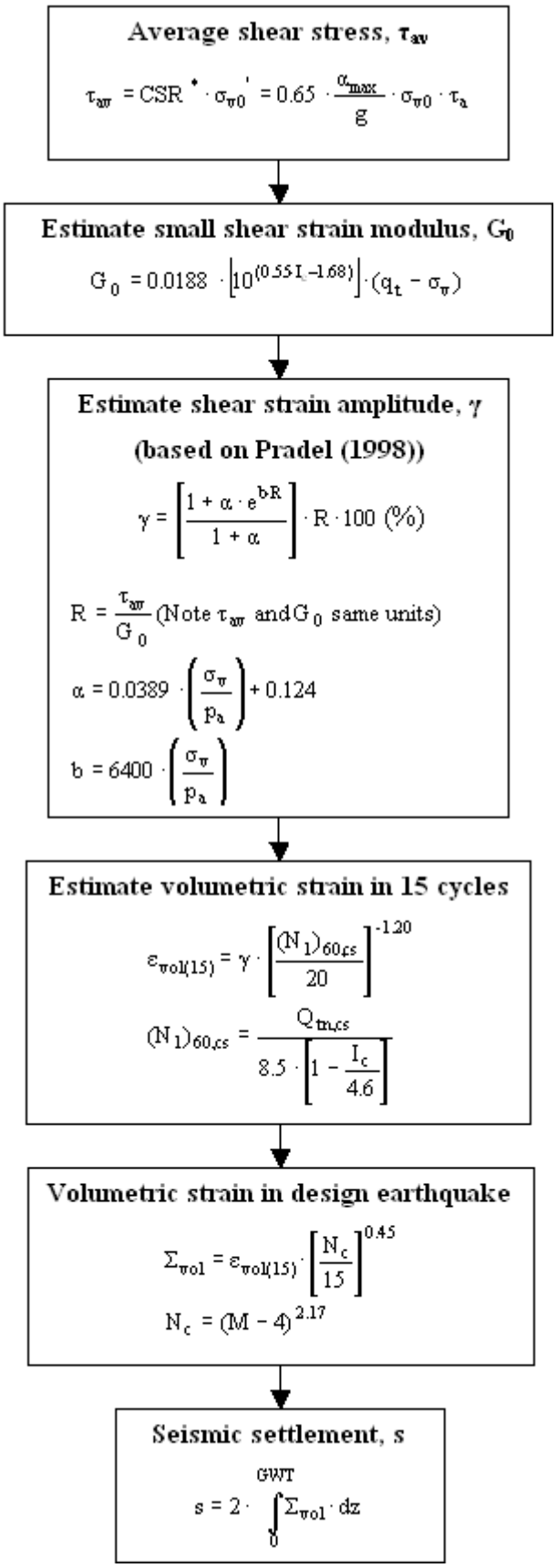

**[1] Figure 1**

$$LDI = \int_0^{z_{max}} \gamma_{max} dz$$

**[1] Equation [3]**

[1] "Estimating liquefaction-induced ground settlements from CPT for level ground", G. Zhang, P.K. Robertson, and R.W.I. Brachman

**Procedure for the estimation of seismic induced settlements in dry sands**




Robertson, P.K. and Lisheng, S., 2010, "Estimation of seismic compression in dry soils using the CPT" FIFTH INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN GEOTECHNICAL EARTHQUAKE ENGINEERING AND SOIL DYNAMICS, Symposium in honor of professor I. M. Idriss, San Diego, CA

## Liquefaction Potential Index (LPI) calculation procedure

Calculation of the Liquefaction Potential Index (LPI) is used to interpret the liquefaction assessment calculations in terms of severity over depth. The calculation procedure is based on the methology developed by Iwasaki (1982) and is adopted by AFPS.

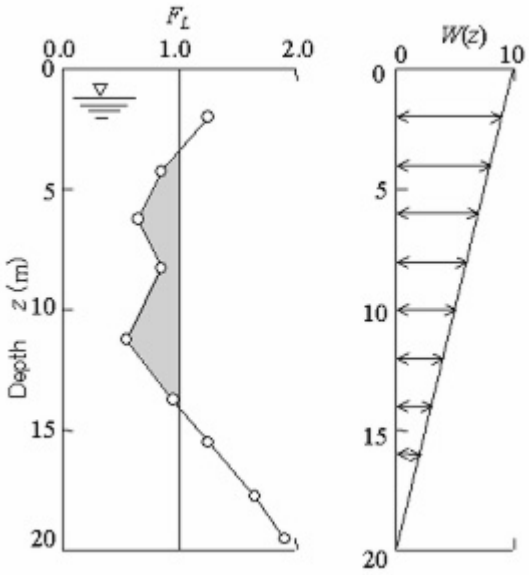
To estimate the severity of liquefaction extent at a given site, LPI is calculated based on the following equation:

$$\mathbf{LPI} = \int_0^{20} (10 - 0{,}5z) \times F_L \times dz$$

where:
$F_L$ = 1 - F.S. when F.S. less than 1
$F_L$ = 0 when F.S. greater than 1
z depth of measurment in meters

Values of LPI range between zero (0) when no test point is characterized as liquefiable and 100 when all points are characterized as susceptible to liquefaction. Iwasaki proposed four (4) discrete categories based on the numeric value of LPI:

- LPI = 0 : Liquefaction risk is very low
- 0 < LPI <= 5 : Liquefaction risk is low
- 5 < LPI <= 15 : Liquefaction risk is high
- LPI > 15 : Liquefaction risk is very high




**Graphical presentation of the LPI calculation procedure**

## Shear-Induced Building Settlement (Ds) calculation procedure

The shear-induced building settlement (Ds) due to liquefaction below the building can be estimated using the relationship developed by Bray and Macedo (2017):

$$Ln(Ds) = c1 + c2 * LBS + 0.58 * Ln\left(Tanh\left(\frac{HL}{6}\right)\right) + 4.59 * Ln(Q) - 0.42 * Ln(Q)^2 - 0.02 * B + 0.84 * Ln(CAVdp) + 0.41 * Ln(Sa1) + \varepsilon$$

where Ds is in the units of mm, c1= -8.35 and c2= 0.072 for LBS ≤ 16, and c1= -7.48 and c2= 0.014 otherwise. Q is the building contact pressure in units of kPa, HL is the cumulative thickness of the liquefiable layers in the units of m, B is the building width in the units of m, CAVdp is a standardized version of the cumulative absolute velocity in the units of g-s, Sa1 is 5%-damped pseudo-acceleration response spectral value at a period of 1 s in the units of g, and ε is a normal random variable with zero mean and 0.50 standard deviation in Ln units. The liquefaction-induced building settlement index (LBS) is:

$$LBS = \sum W * \frac{\varepsilon_{shear}}{z} dz$$

where z (m) is the depth measured from the ground surface > 0, W is a foundation-weighting factor wherein W = 0.0 for z less than Df, which is the embedment depth of the foundation, and W = 1.0 otherwise. The shear strain parameter (ε_shear) is the liquefaction-induced free-field shear strain (in %) estimated using Zhang et al. (2004). It is calculated based on the estimated Dr of the liquefied soil layer and the calculated safety factor against liquefaction triggering (FSL).

## References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# TABLE OF CONTENTS

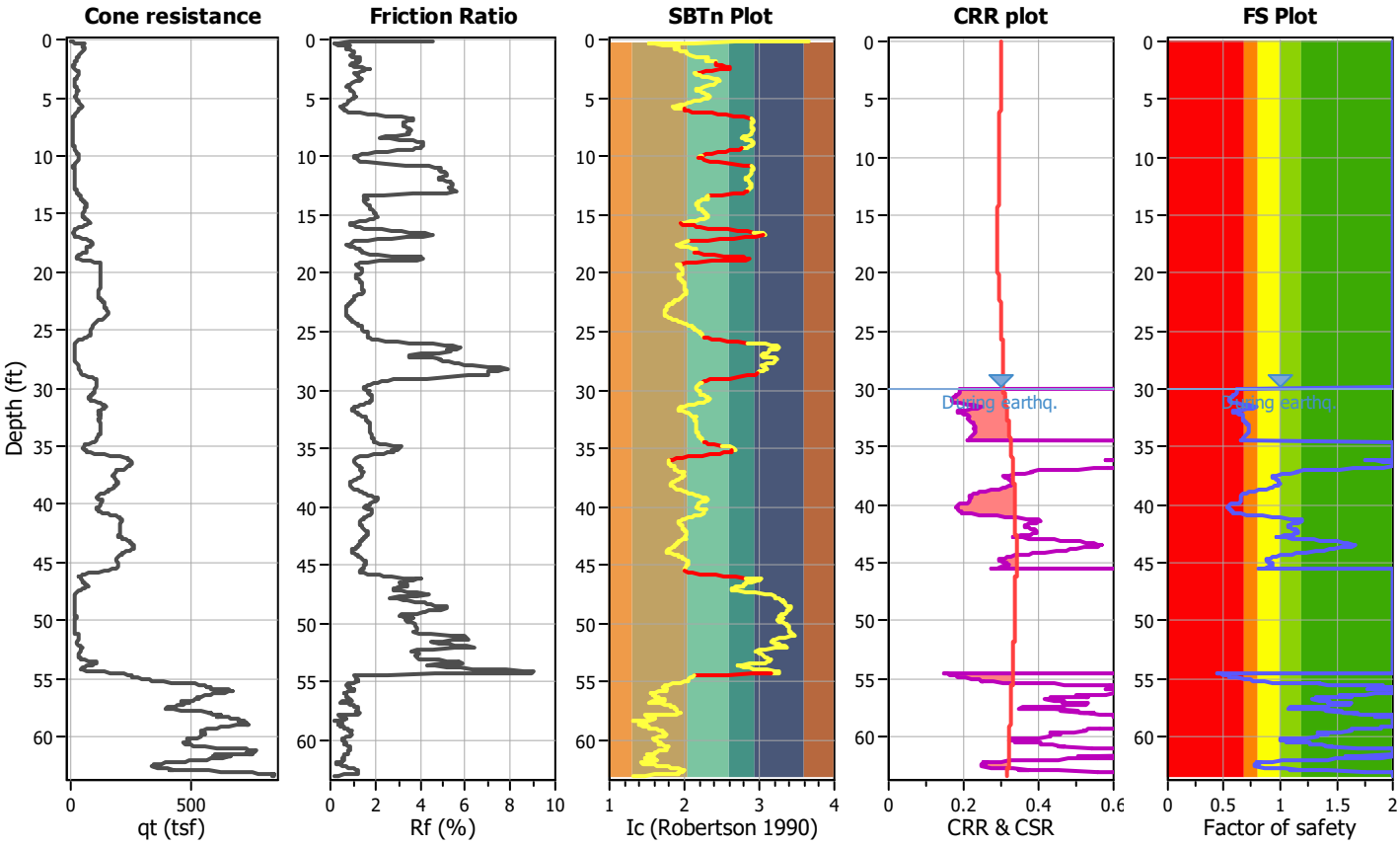
# LIQUEFACTION ANALYSIS REPORT

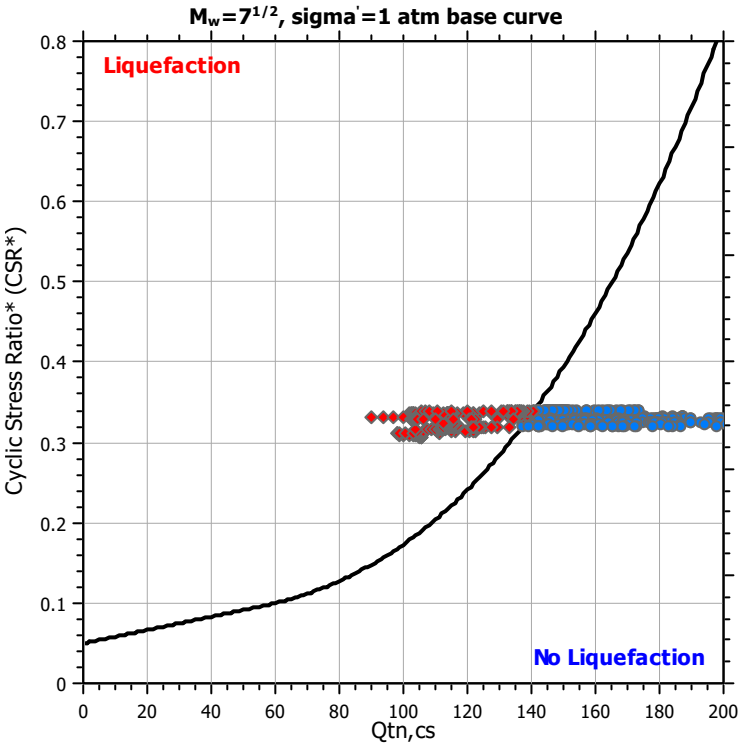
**Project title : W1857-88-01** **Location : 331 The City Drive S**

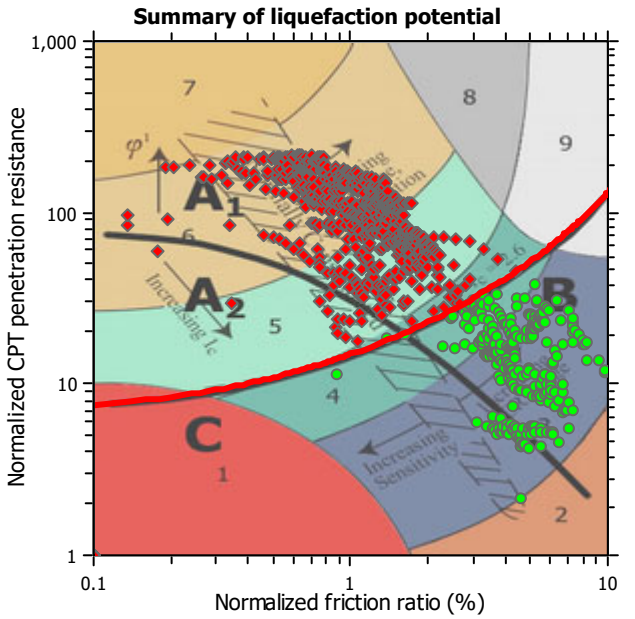
**CPT file : CPT-1**

**Input parameters and analysis data**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 54.00 ft | Use fill: | No | Clay like behavior applied: | Sands only |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 30.00 ft | Fill height: | N/A | Limit depth applied: | No |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth: | N/A |
| Earthquake magnitude $M_w$: | 6.65 | Ic cut-off value: | 2.60 | Trans. detect. applied: | Yes | MSF method: | Method based |
| Peak ground acceleration: | 0.63 | Unit weight calculation: | Based on SBT | $K_\sigma$ applied: | Yes | | |

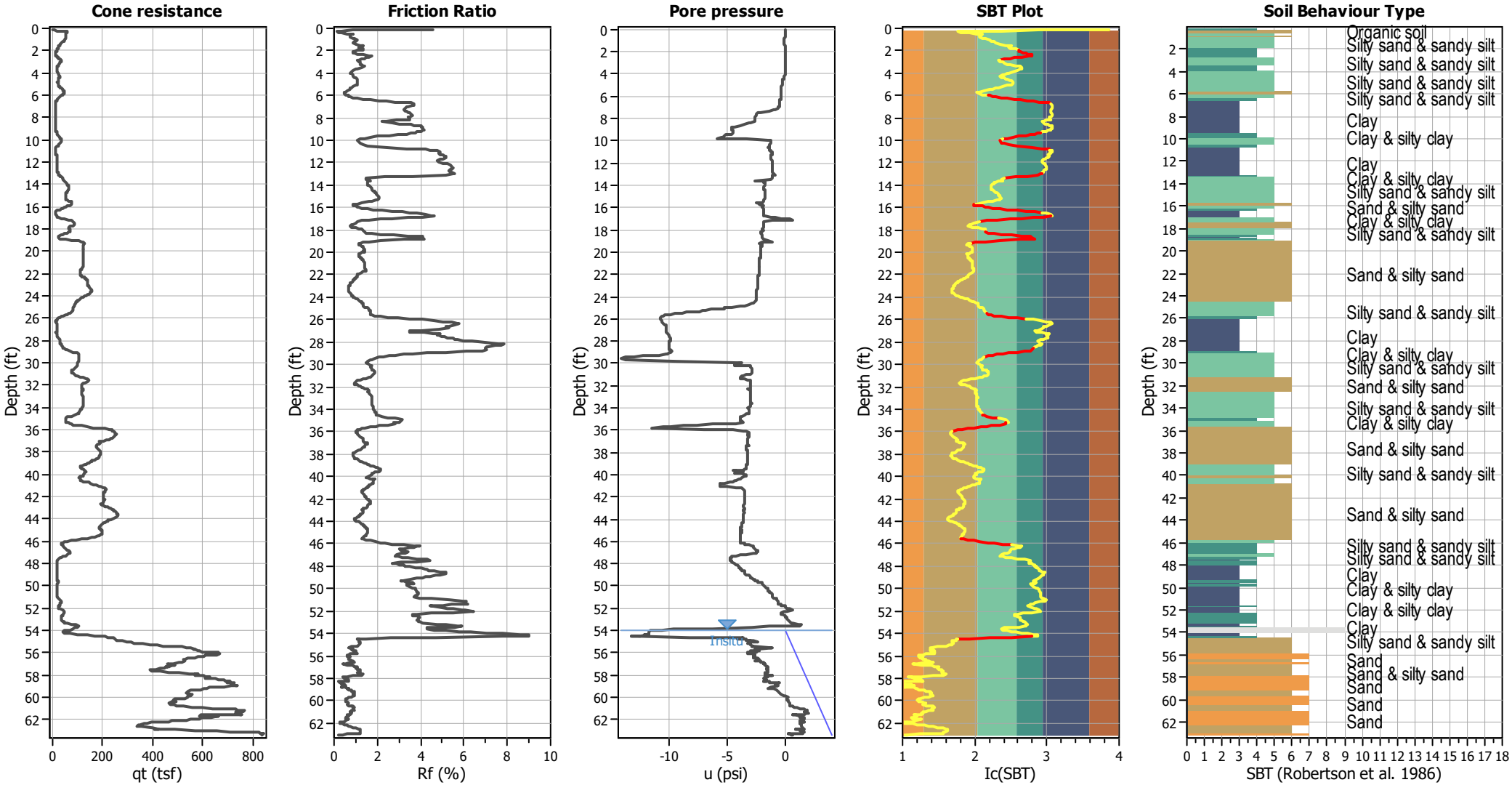



Zone $A_1$: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone $A_2$: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

# CPT basic interpretation plots



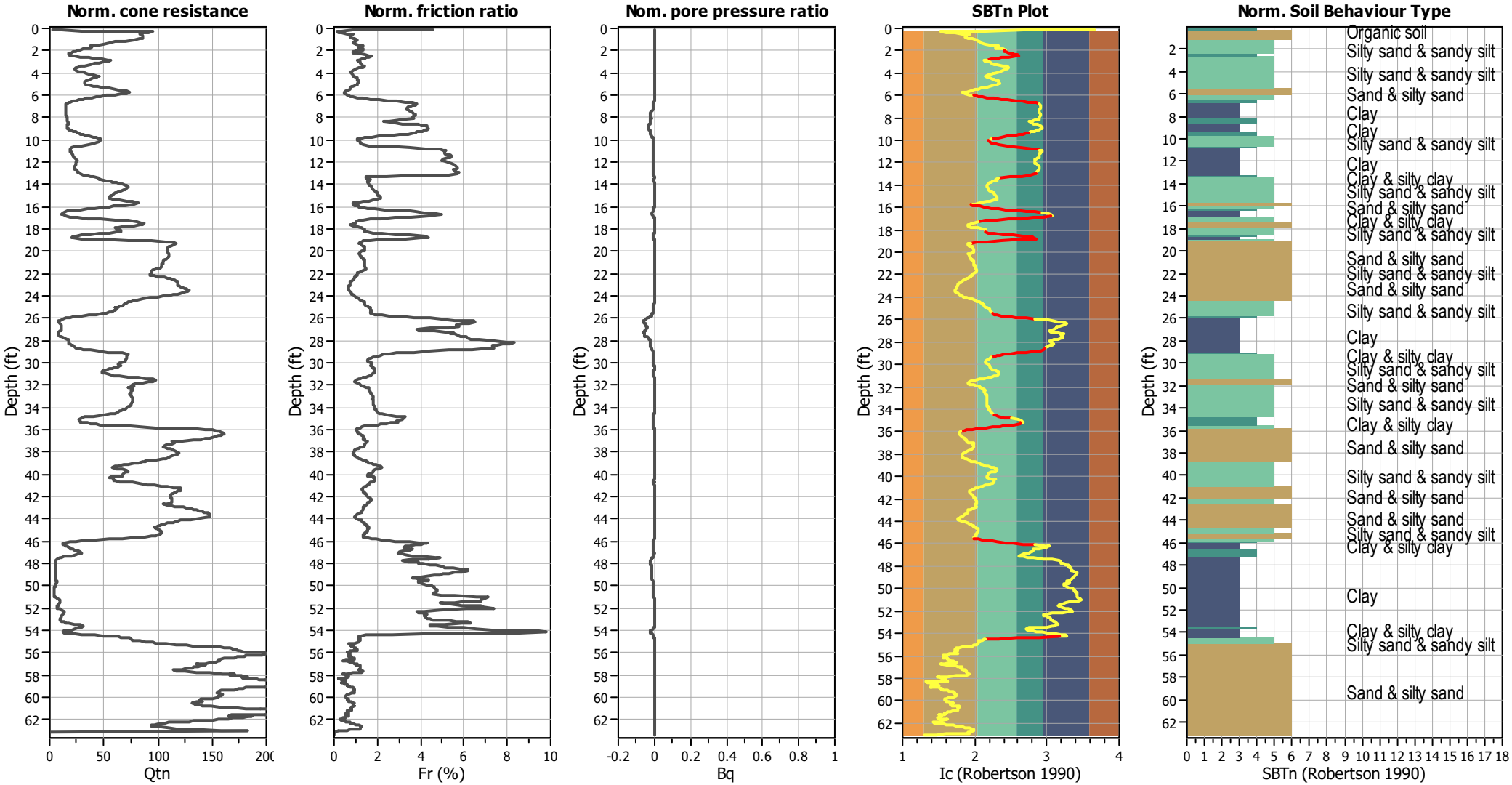

## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.65 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.63 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

**SBT legend**

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

# CPT basic interpretation plots (normalized)



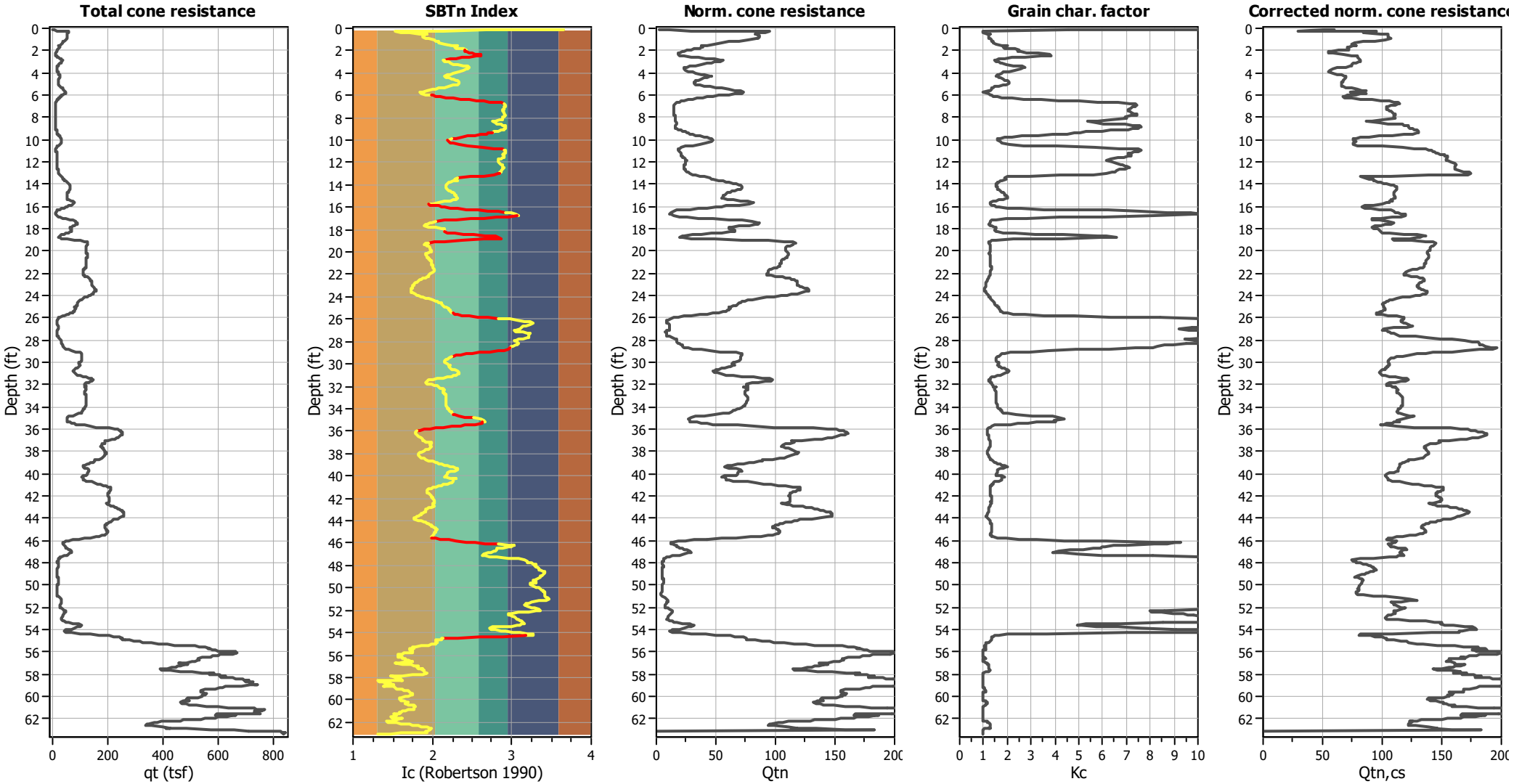

## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.65 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.63 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

**SBTn legend**

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

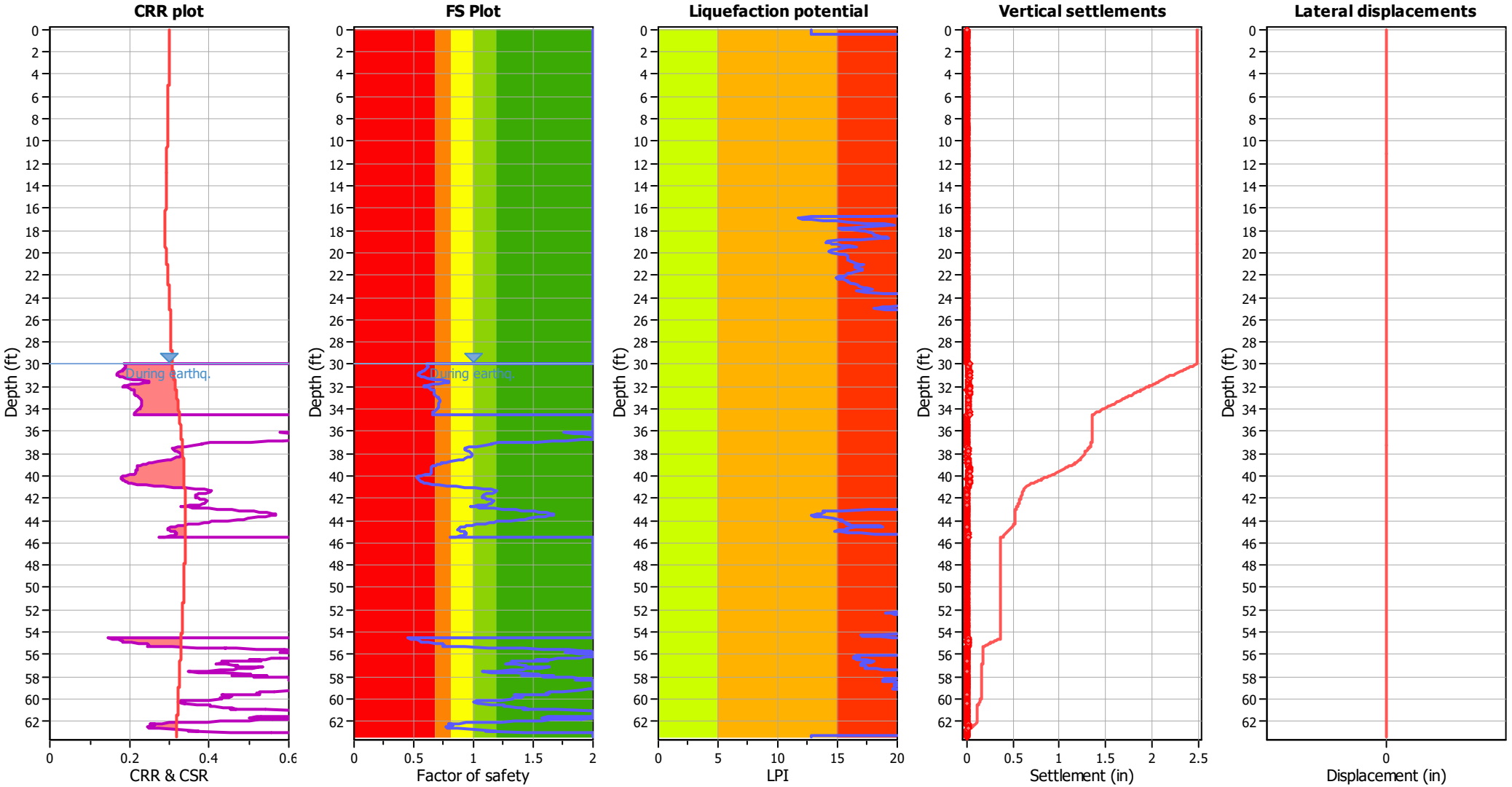
# Liquefaction analysis overall plots (intermediate results)




## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.65 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.63 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

# Liquefaction analysis overall plots




## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.65 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.63 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

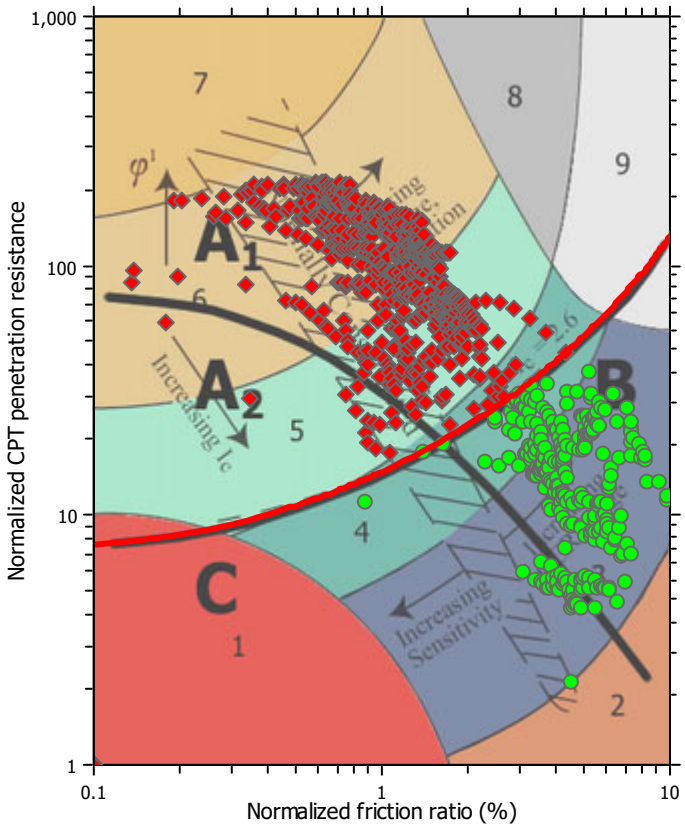
**F.S. color scheme**

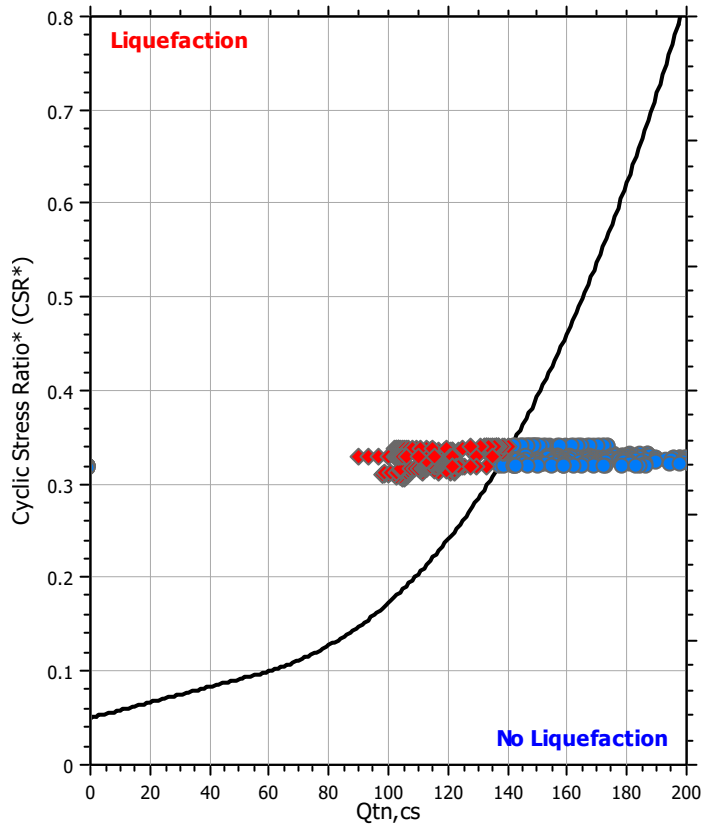
- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

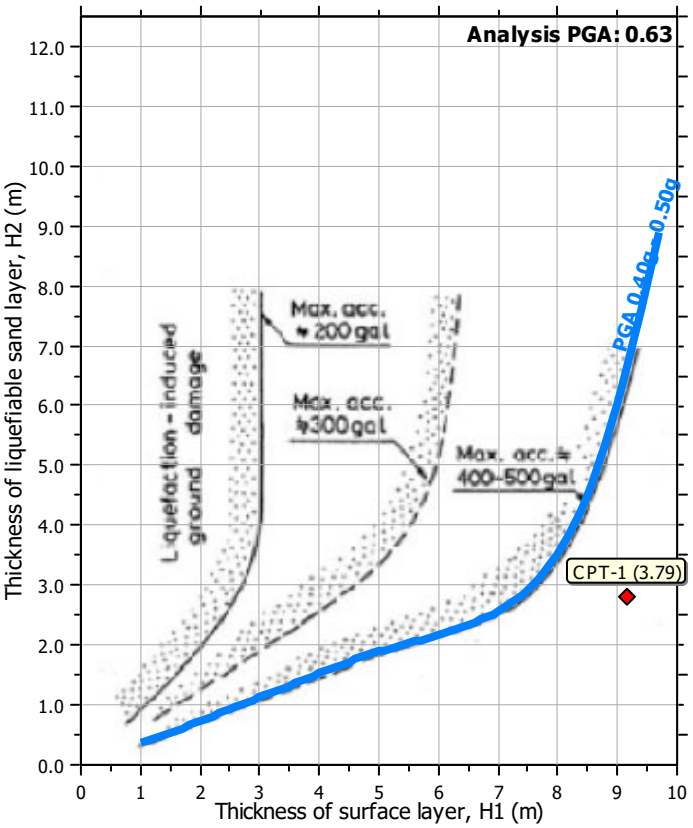
**LPI color scheme**

- Very high risk
- High risk
- Low risk

# Liquefaction analysis summary plots



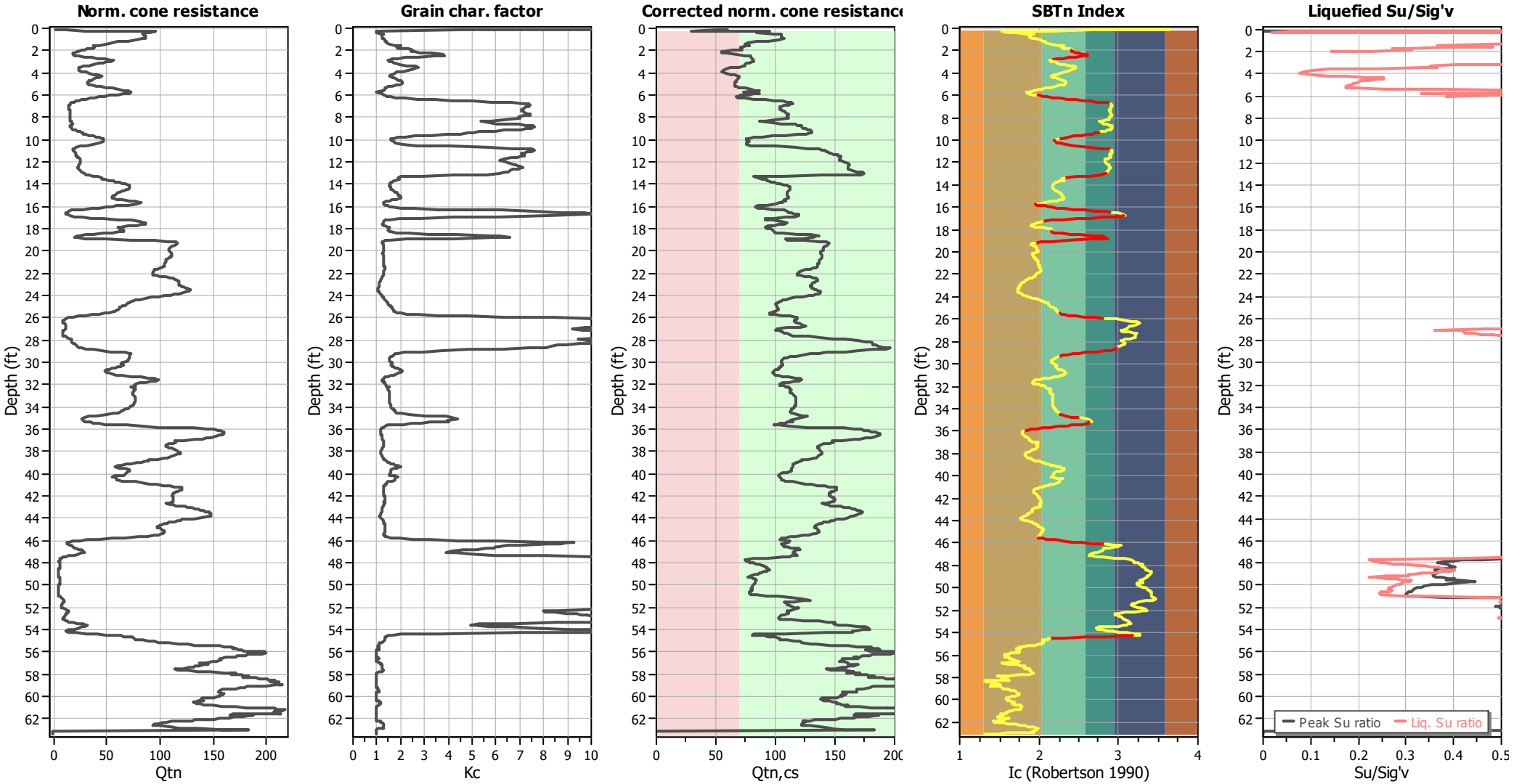




**Input parameters and analysis data**

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.65 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.63 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

## Check for strength loss plots (Robertson (2010))




### Input parameters and analysis data

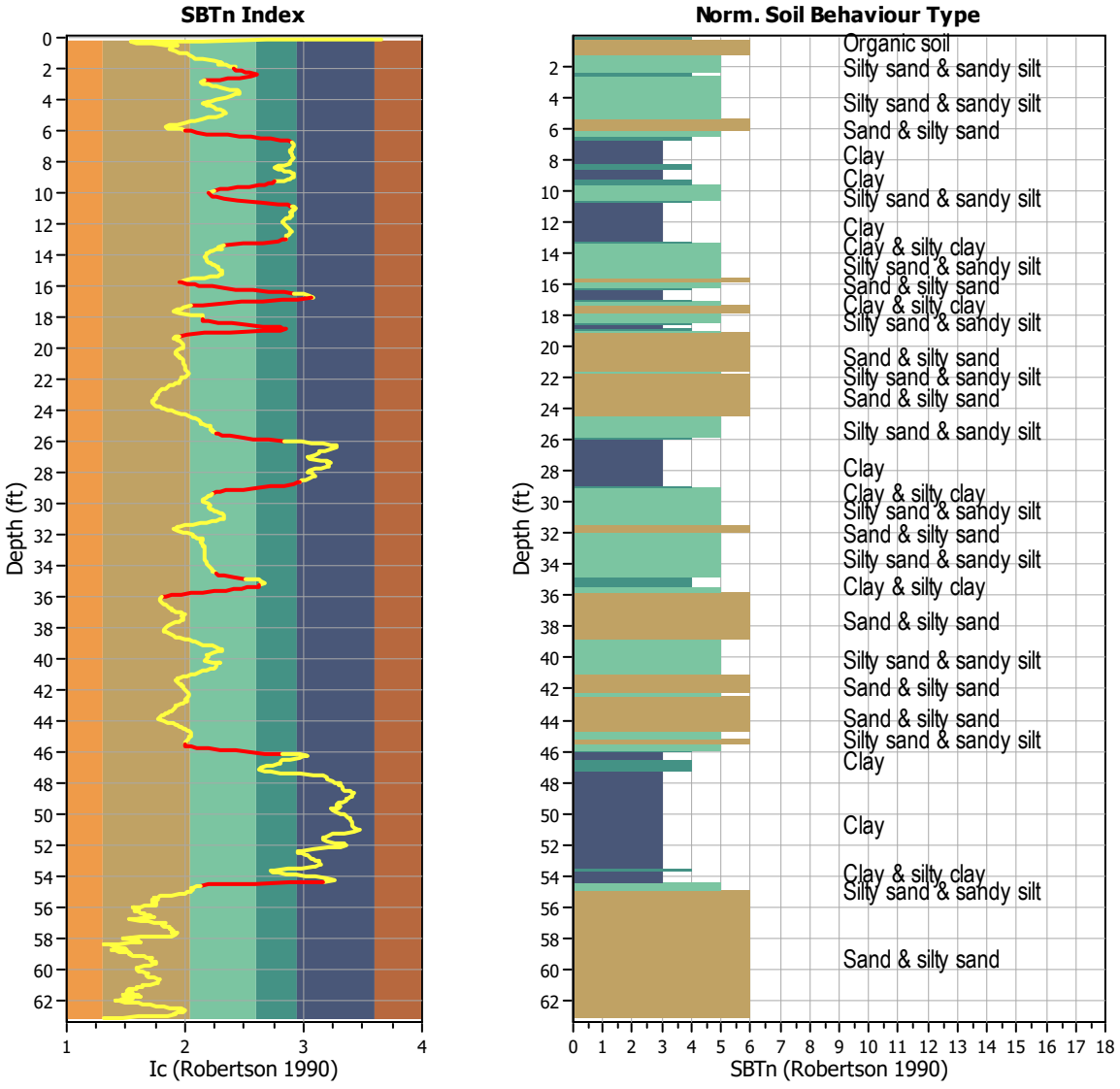
| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.65 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.63 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

# TRANSITION LAYER DETECTION ALGORITHM REPORT
## Summary Details & Plots

**Short description**

The software will delete data when the cone is in transition from either clay to sand or vise-versa. To do this the software requires a range of $I_c$ values over which the transition will be defined (typically somewhere between 1.80 < $I_c$ < 3.0) and a rate of change of $I_c$. Transitions typically occur when the rate of change of $I_c$ is fast (i.e. delta $I_c$ is small).

The $SBT_n$ plot below, displays in red the detected transition layers based on the parameters listed below the graphs.




| Transition layer algorithm properties | | General statistics | |
|---|---|---|---|
| $I_c$ minimum check value: | 1.70 | Total points in CPT file: | 1063 |
| $I_c$ maximum check value: | 3.00 | Total points excluded: | 146 |
| $I_c$ change ratio value: | 0.0250 | Exclusion percentage: | 13.73% |
| Minimum number of points in layer: | 4 | Number of layers detected: | 16 |

| Transition layer No | Number of points | Depth | $SBT_n$ number | $SBT_n$ description |
|---|---|---|---|---|
| Transition layer 1 | 6 | Start depth: 2.05 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 2.34 (ft) | 4 | Clay & silty clay |
| Transition layer 2 | 8 | Start depth: 2.44 (ft) | 4 | Clay & silty clay |
| | | End depth: 2.89 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 3 | 14 | Start depth: 6.02 (ft) | 6 | Sand & silty sand |
| | | End depth: 6.83 (ft) | 3 | Clay |
| Transition layer 4 | 10 | Start depth: 9.38 (ft) | 4 | Clay & silty clay |
| | | End depth: 9.97 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 5 | 10 | Start depth: 10.20 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 10.89 (ft) | 3 | Clay |
| Transition layer 6 | 6 | Start depth: 13.04 (ft) | 3 | Clay |
| | | End depth: 13.47 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 7 | 13 | Start depth: 15.79 (ft) | 6 | Sand & silty sand |
| | | End depth: 16.54 (ft) | 3 | Clay |
| Transition layer 8 | 8 | Start depth: 16.86 (ft) | 3 | Clay |
| | | End depth: 17.34 (ft) | 6 | Sand & silty sand |
| Transition layer 9 | 9 | Start depth: 18.22 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 18.76 (ft) | 3 | Clay |
| Transition layer 10 | 8 | Start depth: 18.76 (ft) | 3 | Clay |
| | | End depth: 19.24 (ft) | 6 | Sand & silty sand |
| Transition layer 11 | 8 | Start depth: 25.52 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 26.02 (ft) | 3 | Clay |
| Transition layer 12 | 12 | Start depth: 28.67 (ft) | 3 | Clay |
| | | End depth: 29.43 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 13 | 5 | Start depth: 34.55 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 34.90 (ft) | 4 | Clay & silty clay |
| Transition layer 14 | 13 | Start depth: 35.33 (ft) | 4 | Clay & silty clay |
| | | End depth: 36.06 (ft) | 6 | Sand & silty sand |
| Transition layer 15 | 10 | Start depth: 45.56 (ft) | 6 | Sand & silty sand |
| | | End depth: 46.15 (ft) | 3 | Clay |
| Transition layer 16 | 6 | Start depth: 54.34 (ft) | 3 | Clay |
| | | End depth: 54.53 (ft) | 5 | Silty sand & sandy silt |

Start depth: Depth where the transition layer begins
End depth: Depth where the transition layer ends

**:: Field input data ::**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1 | 0.01 | 0.00 | 0.01 | 0.00 | N/A | 120.90 |
| 2 | 0.04 | 0.00 | 0.03 | 0.00 | N/A | 120.90 |
| 3 | 0.09 | 0.00 | 0.06 | 0.00 | N/A | 120.90 |
| 4 | 0.11 | 0.00 | 0.06 | 0.00 | N/A | 120.90 |
| 5 | 0.14 | 0.00 | 0.06 | 0.00 | N/A | 120.90 |
| 6 | 0.14 | 0.00 | 0.06 | 0.00 | 100.00 | 90.58 |
| 7 | 0.18 | 4.04 | 0.06 | 0.00 | 39.81 | 94.62 |
| 8 | 0.23 | 16.88 | 0.06 | 0.00 | 5.00 | 97.10 |
| 9 | 0.24 | 33.66 | 0.06 | 0.00 | 5.00 | 99.09 |
| 10 | 0.28 | 59.84 | 0.07 | 0.00 | 4.02 | 100.70 |
| 11 | 0.33 | 65.70 | 0.08 | 0.00 | 3.32 | 101.83 |
| 12 | 0.38 | 52.26 | 0.09 | 0.00 | 4.29 | 104.01 |
| 13 | 0.42 | 51.86 | 0.16 | 0.00 | 5.00 | 107.23 |
| 14 | 0.47 | 52.21 | 0.28 | 0.00 | 8.85 | 111.04 |
| 15 | 0.51 | 51.45 | 0.45 | 0.00 | 10.39 | 113.09 |
| 16 | 0.52 | 52.16 | 0.45 | 0.00 | 11.07 | 113.95 |
| 17 | 0.57 | 52.66 | 0.42 | 0.00 | 10.65 | 113.68 |
| 18 | 0.61 | 53.17 | 0.40 | 0.00 | 10.18 | 113.34 |
| 19 | 0.67 | 53.88 | 0.39 | 0.00 | 9.91 | 113.08 |
| 20 | 0.73 | 53.37 | 0.38 | 0.00 | 9.72 | 112.99 |
| 21 | 0.81 | 54.28 | 0.39 | -0.10 | 9.70 | 112.87 |
| 22 | 0.86 | 53.22 | 0.37 | -0.10 | 10.78 | 114.14 |
| 23 | 0.98 | 53.07 | 0.60 | -0.10 | 11.85 | 114.82 |
| 24 | 1.05 | 50.14 | 0.53 | -0.10 | 13.47 | 114.97 |
| 25 | 1.15 | 41.44 | 0.44 | -0.10 | 14.02 | 113.60 |
| 26 | 1.24 | 39.42 | 0.37 | -0.10 | 14.97 | 111.74 |
| 27 | 1.34 | 32.75 | 0.28 | -0.10 | 15.41 | 110.26 |
| 28 | 1.43 | 31.24 | 0.27 | 0.00 | 17.53 | 109.89 |
| 29 | 1.53 | 27.90 | 0.36 | 0.00 | 20.70 | 109.99 |
| 30 | 1.58 | 21.43 | 0.33 | 0.00 | 23.01 | 110.04 |
| 31 | 1.62 | 24.36 | 0.30 | 0.00 | 23.24 | 109.31 |
| 32 | 1.67 | 24.66 | 0.28 | 0.00 | 21.78 | 108.90 |
| 33 | 1.75 | 24.06 | 0.27 | 0.00 | 21.84 | 108.54 |
| 34 | 1.77 | 22.95 | 0.27 | 0.00 | 22.45 | 108.33 |
| 35 | 1.81 | 22.24 | 0.27 | 0.00 | 23.98 | 108.08 |
| 36 | 1.86 | 19.31 | 0.26 | 0.00 | 25.81 | 107.68 |
| 37 | 1.91 | 17.59 | 0.25 | 0.00 | 27.51 | 107.00 |
| 38 | 1.95 | 16.98 | 0.22 | 0.00 | 27.58 | 105.88 |
| 39 | 2.00 | 16.38 | 0.17 | 0.00 | 26.85 | 104.31 |
| 40 | 2.05 | 15.26 | 0.13 | 0.00 | 26.79 | 102.37 |
| 41 | 2.11 | 13.04 | 0.11 | 0.00 | 27.77 | 100.94 |
| 42 | 2.20 | 12.23 | 0.11 | 0.00 | 29.43 | 100.17 |
| 43 | 2.24 | 11.73 | 0.11 | 0.00 | 30.90 | 100.15 |
| 44 | 2.29 | 11.22 | 0.11 | 0.00 | 32.65 | 100.53 |
| 45 | 2.34 | 10.82 | 0.13 | 0.00 | 35.39 | 102.57 |
| 46 | 2.44 | 11.93 | 0.22 | 0.00 | 35.96 | 104.47 |
| 47 | 2.48 | 13.75 | 0.24 | 0.00 | 33.48 | 106.65 |
| 48 | 2.58 | 17.99 | 0.29 | 0.00 | 29.16 | 108.19 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 49 | 2.63 | 22.34 | 0.33 | 0.00 | 25.09 | 109.71 |
| 50 | 2.71 | 26.89 | 0.36 | 0.00 | 22.48 | 110.79 |
| 51 | 2.78 | 29.01 | 0.39 | 0.00 | 19.70 | 111.55 |
| 52 | 2.82 | 35.08 | 0.39 | 0.00 | 17.69 | 111.93 |
| 53 | 2.89 | 37.10 | 0.38 | 0.00 | 16.81 | 111.84 |
| 54 | 2.96 | 32.65 | 0.36 | 0.00 | 17.52 | 111.71 |
| 55 | 3.03 | 31.13 | 0.39 | 0.00 | 19.08 | 111.39 |
| 56 | 3.11 | 28.91 | 0.36 | 0.00 | 20.03 | 110.91 |
| 57 | 3.19 | 26.89 | 0.31 | 0.00 | 21.15 | 109.99 |
| 58 | 3.25 | 23.55 | 0.29 | 0.00 | 22.96 | 109.06 |
| 59 | 3.35 | 20.12 | 0.28 | 0.00 | 25.68 | 108.30 |
| 60 | 3.41 | 17.79 | 0.26 | 0.00 | 28.08 | 107.14 |
| 61 | 3.50 | 15.47 | 0.20 | 0.00 | 29.06 | 105.47 |
| 62 | 3.59 | 14.46 | 0.15 | 0.00 | 28.55 | 103.57 |
| 63 | 3.69 | 14.56 | 0.13 | 0.00 | 27.72 | 102.55 |
| 64 | 3.79 | 14.76 | 0.14 | 0.00 | 26.19 | 102.21 |
| 65 | 3.88 | 16.27 | 0.13 | 0.00 | 24.04 | 102.29 |
| 66 | 3.97 | 18.60 | 0.13 | 0.00 | 21.42 | 103.22 |
| 67 | 4.07 | 22.54 | 0.17 | 0.00 | 20.94 | 104.68 |
| 68 | 4.14 | 21.33 | 0.21 | -0.08 | 19.71 | 106.20 |
| 69 | 4.17 | 26.59 | 0.22 | -0.08 | 18.89 | 107.22 |
| 70 | 4.26 | 28.61 | 0.25 | -0.08 | 17.51 | 107.99 |
| 71 | 4.32 | 29.21 | 0.26 | -0.09 | 17.59 | 108.49 |
| 72 | 4.37 | 28.30 | 0.27 | -0.09 | 18.27 | 108.68 |
| 73 | 4.42 | 26.79 | 0.27 | -0.10 | 19.47 | 108.64 |
| 74 | 4.51 | 24.77 | 0.27 | -0.19 | 20.53 | 108.32 |
| 75 | 4.61 | 23.65 | 0.25 | -0.19 | 21.42 | 107.89 |
| 76 | 4.65 | 22.64 | 0.24 | -0.19 | 22.24 | 107.37 |
| 77 | 4.74 | 20.82 | 0.23 | -0.19 | 23.28 | 106.98 |
| 78 | 4.80 | 19.81 | 0.22 | -0.19 | 23.69 | 106.69 |
| 79 | 4.89 | 20.82 | 0.22 | -0.19 | 24.07 | 106.54 |
| 80 | 4.95 | 19.51 | 0.22 | -0.19 | 23.69 | 106.58 |
| 81 | 5.04 | 20.82 | 0.22 | -0.19 | 23.00 | 106.70 |
| 82 | 5.13 | 22.84 | 0.22 | -0.29 | 21.27 | 106.93 |
| 83 | 5.18 | 24.77 | 0.22 | -0.29 | 19.16 | 107.22 |
| 84 | 5.28 | 28.20 | 0.23 | -0.29 | 17.18 | 107.58 |
| 85 | 5.32 | 31.24 | 0.23 | -0.29 | 15.37 | 108.17 |
| 86 | 5.42 | 34.97 | 0.25 | -0.29 | 14.24 | 109.03 |
| 87 | 5.51 | 37.81 | 0.29 | -0.29 | 13.16 | 109.85 |
| 88 | 5.60 | 41.65 | 0.30 | -0.29 | 11.39 | 109.42 |
| 89 | 5.66 | 44.38 | 0.19 | -0.29 | 9.82 | 108.84 |
| 90 | 5.76 | 46.70 | 0.21 | -0.29 | 5.00 | 108.20 |
| 91 | 5.85 | 46.50 | 0.23 | -0.29 | 9.42 | 108.60 |
| 92 | 5.92 | 41.55 | 0.23 | -0.29 | 10.81 | 108.56 |
| 93 | 5.95 | 35.28 | 0.23 | -0.33 | 11.91 | 108.38 |
| 94 | 5.97 | 37.81 | 0.23 | -0.33 | 12.79 | 108.24 |
| 95 | 6.02 | 35.38 | 0.23 | -0.33 | 13.11 | 108.15 |
| 96 | 6.06 | 32.95 | 0.23 | -0.38 | 14.35 | 107.90 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 97 | 6.16 | 29.92 | 0.22 | -0.38 | 15.93 | 107.69 |
| 98 | 6.21 | 27.09 | 0.23 | -0.38 | 18.25 | 107.74 |
| 99 | 6.26 | 23.96 | 0.26 | -0.38 | 21.09 | 108.07 |
| 100 | 6.31 | 21.83 | 0.28 | -0.48 | 24.86 | 108.67 |
| 101 | 6.40 | 19.10 | 0.33 | -0.48 | 28.84 | 109.09 |
| 102 | 6.44 | 16.78 | 0.34 | -0.48 | 33.47 | 109.42 |
| 103 | 6.52 | 14.86 | 0.37 | -0.48 | 37.59 | 109.55 |
| 104 | 6.57 | 13.75 | 0.38 | -0.48 | 41.98 | 109.58 |
| 105 | 6.64 | 11.83 | 0.39 | -0.48 | 45.80 | 109.43 |
| 106 | 6.69 | 10.92 | 0.39 | -0.48 | 49.59 | 109.18 |
| 107 | 6.78 | 10.21 | 0.38 | -0.48 | 51.74 | 108.94 |
| 108 | 6.83 | 9.91 | 0.38 | -0.48 | 52.73 | 108.51 |
| 109 | 6.92 | 9.60 | 0.34 | -0.48 | 53.03 | 108.02 |
| 110 | 6.97 | 9.30 | 0.32 | -0.57 | 52.79 | 107.48 |
| 111 | 7.03 | 9.30 | 0.31 | -0.57 | 52.62 | 107.19 |
| 112 | 7.12 | 9.30 | 0.30 | -0.57 | 52.17 | 107.05 |
| 113 | 7.22 | 9.40 | 0.30 | -0.86 | 51.84 | 107.03 |
| 114 | 7.27 | 9.50 | 0.31 | -0.95 | 51.49 | 107.14 |
| 115 | 7.36 | 9.70 | 0.31 | -1.34 | 51.37 | 107.36 |
| 116 | 7.43 | 9.81 | 0.33 | -2.10 | 51.48 | 107.59 |
| 117 | 7.50 | 9.81 | 0.33 | -2.39 | 51.81 | 107.80 |
| 118 | 7.59 | 9.81 | 0.34 | -2.48 | 52.08 | 107.91 |
| 119 | 7.64 | 9.81 | 0.34 | -2.48 | 52.59 | 107.98 |
| 120 | 7.75 | 9.60 | 0.35 | -2.48 | 53.06 | 108.03 |
| 121 | 7.79 | 9.60 | 0.35 | -2.48 | 52.94 | 108.11 |
| 122 | 7.89 | 10.01 | 0.35 | -2.58 | 51.93 | 108.20 |
| 123 | 7.99 | 10.41 | 0.35 | -2.58 | 51.00 | 108.32 |
| 124 | 8.04 | 10.41 | 0.36 | -2.58 | 50.93 | 108.47 |
| 125 | 8.13 | 10.31 | 0.37 | -2.58 | 51.23 | 108.53 |
| 126 | 8.23 | 10.31 | 0.36 | -2.67 | 48.25 | 107.10 |
| 127 | 8.32 | 10.31 | 0.16 | -2.96 | 45.66 | 105.82 |
| 128 | 8.37 | 10.31 | 0.23 | -3.15 | 43.57 | 105.27 |
| 129 | 8.46 | 11.12 | 0.30 | -3.44 | 45.48 | 107.20 |
| 130 | 8.56 | 11.83 | 0.36 | -3.53 | 46.89 | 108.35 |
| 131 | 8.59 | 11.12 | 0.37 | -3.93 | 48.24 | 108.98 |
| 132 | 8.61 | 11.12 | 0.39 | -3.93 | 49.87 | 109.23 |
| 133 | 8.67 | 11.02 | 0.41 | -3.93 | 51.01 | 109.48 |
| 134 | 8.71 | 10.71 | 0.41 | -4.39 | 52.13 | 109.59 |
| 135 | 8.72 | 10.51 | 0.42 | -4.49 | 53.07 | 109.66 |
| 136 | 8.78 | 10.51 | 0.43 | -4.58 | 53.51 | 109.72 |
| 137 | 8.80 | 10.51 | 0.43 | -4.58 | 53.62 | 109.76 |
| 138 | 8.86 | 10.51 | 0.43 | -4.58 | 53.65 | 109.77 |
| 139 | 8.90 | 10.51 | 0.43 | -4.58 | 53.45 | 109.87 |
| 140 | 8.95 | 10.82 | 0.44 | -4.58 | 53.21 | 110.02 |
| 141 | 8.96 | 10.92 | 0.45 | -4.58 | 52.79 | 110.21 |
| 142 | 9.00 | 11.12 | 0.45 | -4.58 | 52.52 | 110.39 |
| 143 | 9.05 | 11.32 | 0.47 | -4.49 | 52.13 | 110.62 |
| 144 | 9.09 | 11.62 | 0.48 | -4.49 | 51.55 | 110.83 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 145 | 9.10 | 11.93 | 0.48 | -4.49 | 50.65 | 111.10 |
| 146 | 9.14 | 12.53 | 0.51 | -4.49 | 49.64 | 111.46 |
| 147 | 9.20 | 13.14 | 0.53 | -4.49 | 48.16 | 111.91 |
| 148 | 9.24 | 14.15 | 0.55 | -4.49 | 46.46 | 112.37 |
| 149 | 9.29 | 15.16 | 0.57 | -4.49 | 44.67 | 112.78 |
| 150 | 9.31 | 15.97 | 0.59 | -4.49 | 43.27 | 113.20 |
| 151 | 9.38 | 16.78 | 0.62 | -4.58 | 42.21 | 113.51 |
| 152 | 9.41 | 17.29 | 0.63 | -4.77 | 40.91 | 113.67 |
| 153 | 9.47 | 18.09 | 0.60 | -5.15 | 39.32 | 113.64 |
| 154 | 9.53 | 18.90 | 0.58 | -5.25 | 36.22 | 113.38 |
| 155 | 9.62 | 21.23 | 0.52 | -5.34 | 32.67 | 113.07 |
| 156 | 9.67 | 23.35 | 0.49 | -5.54 | 28.33 | 112.63 |
| 157 | 9.77 | 26.79 | 0.43 | -5.92 | 25.15 | 112.27 |
| 158 | 9.81 | 28.81 | 0.41 | -3.34 | 22.18 | 111.77 |
| 159 | 9.90 | 31.03 | 0.36 | -1.43 | 20.30 | 111.35 |
| 160 | 9.97 | 32.25 | 0.34 | -1.24 | 18.94 | 111.09 |
| 161 | 10.06 | 33.56 | 0.35 | -1.24 | 18.88 | 111.19 |
| 162 | 10.20 | 32.14 | 0.37 | -1.24 | 19.84 | 111.65 |
| 163 | 10.30 | 30.73 | 0.42 | -1.34 | 21.09 | 110.81 |
| 164 | 10.44 | 25.07 | 0.26 | -1.34 | 23.79 | 110.16 |
| 165 | 10.54 | 20.82 | 0.33 | -1.43 | 28.52 | 109.42 |
| 166 | 10.63 | 16.27 | 0.39 | -1.40 | 37.17 | 110.42 |
| 167 | 10.74 | 12.64 | 0.49 | -1.40 | 45.02 | 111.01 |
| 168 | 10.78 | 12.64 | 0.51 | -1.37 | 49.84 | 111.50 |
| 169 | 10.83 | 12.64 | 0.53 | -1.37 | 50.94 | 111.75 |
| 170 | 10.88 | 12.23 | 0.55 | -1.34 | 52.01 | 111.93 |
| 171 | 10.89 | 12.13 | 0.55 | -1.24 | 53.26 | 112.19 |
| 172 | 10.97 | 12.13 | 0.60 | -1.24 | 53.74 | 112.49 |
| 173 | 11.02 | 12.53 | 0.61 | -1.15 | 53.76 | 112.83 |
| 174 | 11.07 | 12.84 | 0.63 | -1.15 | 53.28 | 113.04 |
| 175 | 11.11 | 13.04 | 0.63 | -1.15 | 52.89 | 113.23 |
| 176 | 11.16 | 13.34 | 0.65 | -1.05 | 52.38 | 113.46 |
| 177 | 11.21 | 13.85 | 0.67 | -1.15 | 51.91 | 113.73 |
| 178 | 11.26 | 14.15 | 0.69 | -1.15 | 51.53 | 114.03 |
| 179 | 11.30 | 14.46 | 0.72 | -1.24 | 51.55 | 114.31 |
| 180 | 11.36 | 14.56 | 0.74 | -1.24 | 51.71 | 114.56 |
| 181 | 11.40 | 14.66 | 0.76 | -1.24 | 51.84 | 114.75 |
| 182 | 11.45 | 14.86 | 0.77 | -1.24 | 51.87 | 114.90 |
| 183 | 11.50 | 14.96 | 0.78 | -1.24 | 51.65 | 115.06 |
| 184 | 11.55 | 15.36 | 0.79 | -1.24 | 51.39 | 115.24 |
| 185 | 11.60 | 15.67 | 0.81 | -1.24 | 50.61 | 115.51 |
| 186 | 11.66 | 16.58 | 0.84 | -1.24 | 49.52 | 115.80 |
| 187 | 11.74 | 17.49 | 0.86 | -1.15 | 48.09 | 116.04 |
| 188 | 11.84 | 18.19 | 0.85 | -1.15 | 47.34 | 116.23 |
| 189 | 11.93 | 18.30 | 0.88 | -1.15 | 47.43 | 116.42 |
| 190 | 12.04 | 18.09 | 0.91 | -1.15 | 48.38 | 116.63 |
| 191 | 12.13 | 17.79 | 0.93 | -1.15 | 49.30 | 116.79 |
| 192 | 12.22 | 17.79 | 0.95 | -1.15 | 50.08 | 116.85 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 193 | 12.27 | 17.49 | 0.95 | -1.15 | 50.46 | 116.81 |
| 194 | 12.37 | 17.29 | 0.93 | -1.15 | 51.02 | 116.74 |
| 195 | 12.41 | 17.08 | 0.93 | -1.15 | 51.24 | 116.69 |
| 196 | 12.51 | 17.18 | 0.94 | -1.15 | 51.67 | 116.70 |
| 197 | 12.56 | 16.98 | 0.94 | -1.15 | 51.47 | 116.76 |
| 198 | 12.65 | 17.59 | 0.95 | -1.05 | 50.92 | 116.90 |
| 199 | 12.71 | 18.40 | 0.97 | -1.05 | 49.81 | 117.22 |
| 200 | 12.79 | 19.41 | 1.02 | -1.05 | 49.34 | 117.71 |
| 201 | 12.89 | 19.91 | 1.11 | -0.95 | 48.93 | 118.28 |
| 202 | 12.96 | 21.03 | 1.17 | -0.95 | 48.62 | 118.87 |
| 203 | 13.04 | 22.04 | 1.25 | -0.86 | 47.37 | 119.33 |
| 204 | 13.13 | 23.65 | 1.26 | -1.05 | 44.91 | 119.65 |
| 205 | 13.23 | 26.69 | 1.23 | -1.05 | 37.79 | 118.14 |
| 206 | 13.30 | 30.12 | 0.44 | -1.05 | 30.22 | 116.19 |
| 207 | 13.37 | 34.27 | 0.48 | -1.15 | 23.39 | 113.77 |
| 208 | 13.47 | 38.11 | 0.56 | -1.24 | 22.02 | 114.92 |
| 209 | 13.57 | 42.66 | 0.63 | -2.58 | 22.72 | 115.65 |
| 210 | 13.61 | 35.68 | 0.65 | -1.72 | 23.01 | 116.05 |
| 211 | 13.62 | 39.32 | 0.66 | -1.72 | 22.69 | 116.34 |
| 212 | 13.68 | 45.99 | 0.69 | -1.72 | 21.00 | 116.83 |
| 213 | 13.73 | 47.71 | 0.72 | -1.91 | 19.82 | 117.32 |
| 214 | 13.77 | 49.83 | 0.75 | -1.72 | 19.40 | 117.84 |
| 215 | 13.87 | 52.77 | 0.82 | -1.72 | 18.89 | 118.41 |
| 216 | 13.93 | 56.20 | 0.87 | -1.72 | 18.50 | 119.05 |
| 217 | 14.00 | 58.43 | 0.92 | -1.72 | 18.11 | 119.60 |
| 218 | 14.06 | 61.05 | 0.98 | -1.72 | 17.96 | 120.09 |
| 219 | 14.12 | 62.47 | 1.02 | -1.81 | 17.96 | 120.53 |
| 220 | 14.21 | 63.18 | 1.08 | -1.81 | 18.11 | 120.86 |
| 221 | 14.25 | 63.58 | 1.10 | -1.81 | 18.27 | 121.08 |
| 222 | 14.35 | 63.68 | 1.12 | -1.81 | 18.46 | 121.16 |
| 223 | 14.45 | 62.87 | 1.11 | -1.72 | 18.76 | 121.14 |
| 224 | 14.50 | 61.36 | 1.11 | -1.72 | 19.22 | 121.02 |
| 225 | 14.59 | 59.03 | 1.09 | -1.72 | 19.83 | 120.88 |
| 226 | 14.64 | 57.21 | 1.08 | -1.72 | 20.46 | 120.71 |
| 227 | 14.74 | 55.39 | 1.07 | -1.72 | 21.03 | 120.57 |
| 228 | 14.80 | 54.28 | 1.06 | -1.72 | 21.53 | 120.45 |
| 229 | 14.88 | 53.07 | 1.06 | -1.72 | 21.95 | 120.36 |
| 230 | 14.97 | 52.26 | 1.05 | -1.72 | 22.36 | 120.29 |
| 231 | 15.05 | 51.45 | 1.05 | -1.72 | 22.79 | 120.27 |
| 232 | 15.13 | 50.64 | 1.07 | -1.72 | 23.16 | 120.29 |
| 233 | 15.21 | 50.54 | 1.07 | -1.72 | 23.18 | 120.30 |
| 234 | 15.28 | 51.76 | 1.05 | -1.81 | 22.62 | 120.34 |
| 235 | 15.36 | 54.48 | 1.06 | -1.91 | 21.45 | 120.45 |
| 236 | 15.41 | 59.13 | 1.06 | -1.91 | 19.60 | 120.68 |
| 237 | 15.50 | 67.12 | 1.06 | -2.00 | 17.73 | 120.96 |
| 238 | 15.55 | 72.98 | 1.07 | -2.48 | 14.99 | 120.29 |
| 239 | 15.65 | 78.34 | 0.69 | -2.00 | 12.97 | 119.36 |
| 240 | 15.71 | 79.55 | 0.68 | -2.29 | 11.49 | 118.07 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 241 | 15.79 | 76.72 | 0.66 | -2.00 | 11.94 | 117.74 |
| 242 | 15.89 | 69.04 | 0.63 | -1.81 | 13.58 | 117.28 |
| 243 | 15.90 | 56.20 | 0.63 | -1.93 | 15.06 | 116.86 |
| 244 | 15.94 | 58.12 | 0.62 | -1.93 | 16.49 | 116.54 |
| 245 | 16.00 | 54.38 | 0.60 | -1.93 | 17.46 | 116.33 |
| 246 | 16.06 | 47.31 | 0.61 | -1.81 | 19.74 | 116.08 |
| 247 | 16.14 | 41.44 | 0.62 | -1.81 | 23.40 | 115.82 |
| 248 | 16.19 | 33.56 | 0.63 | -1.81 | 27.82 | 115.40 |
| 249 | 16.26 | 27.39 | 0.61 | -1.81 | 33.97 | 114.66 |
| 250 | 16.33 | 20.42 | 0.58 | -1.81 | 40.60 | 113.74 |
| 251 | 16.38 | 16.88 | 0.54 | -1.81 | 47.75 | 112.60 |
| 252 | 16.47 | 13.95 | 0.48 | -1.81 | 53.58 | 111.81 |
| 253 | 16.54 | 12.53 | 0.50 | -1.81 | 58.20 | 111.16 |
| 254 | 16.62 | 11.52 | 0.48 | -1.81 | 61.95 | 111.19 |
| 255 | 16.70 | 11.42 | 0.52 | -1.81 | 63.86 | 111.41 |
| 256 | 16.76 | 11.73 | 0.55 | -1.72 | 62.72 | 112.21 |
| 257 | 16.86 | 13.75 | 0.62 | -1.24 | 55.66 | 113.21 |
| 258 | 16.90 | 19.21 | 0.65 | -0.86 | 46.99 | 114.45 |
| 259 | 16.98 | 25.07 | 0.71 | -0.29 | 37.95 | 115.60 |
| 260 | 17.05 | 33.26 | 0.75 | 0.38 | 29.58 | 116.88 |
| 261 | 17.14 | 47.91 | 0.80 | 0.67 | 22.70 | 117.88 |
| 262 | 17.20 | 61.46 | 0.80 | -1.15 | 17.44 | 118.65 |
| 263 | 17.29 | 75.11 | 0.79 | -1.91 | 14.33 | 119.10 |
| 264 | 17.34 | 82.59 | 0.81 | -1.91 | 12.57 | 119.56 |
| 265 | 17.44 | 88.35 | 0.86 | -1.91 | 12.10 | 120.15 |
| 266 | 17.50 | 89.76 | 0.95 | -1.91 | 11.17 | 119.56 |
| 267 | 17.58 | 88.65 | 0.59 | -1.91 | 10.61 | 118.74 |
| 268 | 17.64 | 86.12 | 0.61 | -1.91 | 10.36 | 117.68 |
| 269 | 17.75 | 80.36 | 0.68 | -1.91 | 11.68 | 118.09 |
| 270 | 17.82 | 75.11 | 0.73 | -1.91 | 14.12 | 118.45 |
| 271 | 17.89 | 60.85 | 0.79 | -1.94 | 16.11 | 118.58 |
| 272 | 17.89 | 62.17 | 0.79 | -1.94 | 17.43 | 118.74 |
| 273 | 17.96 | 65.10 | 0.82 | -1.94 | 17.29 | 119.02 |
| 274 | 18.02 | 65.00 | 0.86 | -1.91 | 17.38 | 119.46 |
| 275 | 18.07 | 66.01 | 0.93 | -2.00 | 17.40 | 119.89 |
| 276 | 18.17 | 69.65 | 0.96 | -2.00 | 17.19 | 120.21 |
| 277 | 18.22 | 70.76 | 0.96 | -2.10 | 17.38 | 120.34 |
| 278 | 18.30 | 65.91 | 0.98 | -2.10 | 18.63 | 120.33 |
| 279 | 18.36 | 59.03 | 1.01 | -2.10 | 21.57 | 120.25 |
| 280 | 18.42 | 48.22 | 1.05 | -2.00 | 25.82 | 120.15 |
| 281 | 18.50 | 40.43 | 1.10 | -2.00 | 31.86 | 119.89 |
| 282 | 18.56 | 31.34 | 1.11 | -2.00 | 38.47 | 119.44 |
| 283 | 18.62 | 25.47 | 1.08 | -2.00 | 45.73 | 118.51 |
| 284 | 18.69 | 20.42 | 0.95 | -2.00 | 47.28 | 117.84 |
| 285 | 18.76 | 26.08 | 0.90 | -2.00 | 49.35 | 117.26 |
| 286 | 18.84 | 20.22 | 0.92 | -1.91 | 46.20 | 117.56 |
| 287 | 18.89 | 26.69 | 0.98 | -1.81 | 38.13 | 118.84 |
| 288 | 18.98 | 48.82 | 1.15 | -1.53 | 25.23 | 120.89 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 289 | 19.05 | 83.09 | 1.28 | -1.15 | 17.63 | 122.71 |
| 290 | 19.12 | 103.41 | 1.40 | -2.00 | 13.45 | 123.88 |
| 291 | 19.18 | 118.98 | 1.44 | -2.19 | 11.63 | 124.47 |
| 292 | 19.24 | 125.34 | 1.44 | -2.00 | 10.70 | 124.75 |
| 293 | 19.32 | 127.97 | 1.47 | -2.10 | 10.50 | 124.90 |
| 294 | 19.38 | 127.06 | 1.50 | -2.00 | 10.78 | 125.14 |
| 295 | 19.46 | 124.64 | 1.59 | -2.00 | 11.28 | 125.37 |
| 296 | 19.54 | 122.82 | 1.64 | -2.10 | 11.83 | 125.56 |
| 297 | 19.62 | 120.49 | 1.66 | -2.10 | 12.18 | 125.64 |
| 298 | 19.70 | 119.78 | 1.66 | -2.10 | 12.37 | 125.65 |
| 299 | 19.80 | 119.78 | 1.65 | -2.10 | 12.42 | 125.63 |
| 300 | 19.85 | 119.78 | 1.65 | -2.10 | 12.39 | 125.59 |
| 301 | 19.94 | 119.78 | 1.64 | -2.10 | 12.46 | 125.66 |
| 302 | 20.03 | 120.39 | 1.70 | -2.10 | 11.91 | 125.24 |
| 303 | 20.13 | 122.11 | 1.36 | -2.10 | 11.37 | 124.85 |
| 304 | 20.19 | 123.12 | 1.38 | -2.10 | 10.74 | 124.42 |
| 305 | 20.29 | 124.84 | 1.43 | -2.10 | 10.87 | 124.64 |
| 306 | 20.39 | 124.28 | 1.47 | -2.15 | 11.01 | 124.81 |
| 307 | 20.43 | 124.49 | 1.48 | -2.15 | 11.19 | 124.93 |
| 308 | 20.47 | 123.73 | 1.51 | -2.15 | 11.32 | 125.04 |
| 309 | 20.52 | 124.13 | 1.54 | -2.19 | 11.55 | 125.23 |
| 310 | 20.61 | 124.13 | 1.61 | -2.19 | 11.79 | 125.44 |
| 311 | 20.66 | 123.73 | 1.64 | -2.19 | 12.08 | 125.60 |
| 312 | 20.71 | 122.01 | 1.65 | -2.19 | 12.32 | 125.65 |
| 313 | 20.77 | 121.00 | 1.66 | -2.19 | 12.55 | 125.68 |
| 314 | 20.85 | 120.09 | 1.67 | -2.19 | 12.67 | 125.69 |
| 315 | 20.91 | 120.59 | 1.67 | -2.19 | 12.69 | 125.72 |
| 316 | 21.00 | 121.30 | 1.67 | -2.19 | 12.68 | 125.74 |
| 317 | 21.05 | 121.20 | 1.68 | -2.19 | 12.72 | 125.75 |
| 318 | 21.11 | 120.39 | 1.68 | -2.19 | 12.82 | 125.76 |
| 319 | 21.19 | 119.99 | 1.69 | -2.19 | 12.93 | 125.79 |
| 320 | 21.24 | 120.19 | 1.70 | -2.19 | 12.99 | 125.84 |
| 321 | 21.34 | 120.59 | 1.71 | -2.19 | 13.03 | 125.87 |
| 322 | 21.39 | 120.49 | 1.71 | -2.19 | 13.11 | 125.88 |
| 323 | 21.48 | 118.98 | 1.71 | -2.19 | 13.31 | 125.83 |
| 324 | 21.53 | 116.65 | 1.70 | -2.19 | 13.57 | 125.71 |
| 325 | 21.64 | 113.62 | 1.66 | -2.19 | 13.84 | 125.53 |
| 326 | 21.72 | 111.39 | 1.62 | -2.19 | 13.51 | 124.89 |
| 327 | 21.81 | 110.48 | 1.31 | -2.19 | 12.90 | 124.15 |
| 328 | 21.89 | 110.59 | 1.24 | -2.29 | 12.18 | 123.40 |
| 329 | 21.97 | 110.59 | 1.21 | -2.29 | 11.93 | 123.16 |
| 330 | 22.05 | 110.99 | 1.19 | -2.29 | 11.80 | 123.03 |
| 331 | 22.12 | 110.94 | 1.17 | -2.34 | 11.72 | 122.95 |
| 332 | 22.13 | 110.94 | 1.17 | -2.34 | 11.70 | 122.93 |
| 333 | 22.18 | 110.89 | 1.18 | -2.34 | 11.57 | 122.96 |
| 334 | 22.22 | 114.22 | 1.18 | -2.39 | 11.23 | 123.02 |
| 335 | 22.28 | 118.47 | 1.17 | -2.39 | 10.74 | 123.13 |
| 336 | 22.33 | 122.82 | 1.19 | -2.39 | 10.28 | 123.26 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 337 | 22.38 | 126.46 | 1.20 | -2.39 | 9.90 | 123.41 |
| 338 | 22.41 | 129.89 | 1.21 | -2.39 | 9.50 | 123.49 |
| 339 | 22.51 | 133.73 | 1.20 | -2.39 | 9.14 | 123.51 |
| 340 | 22.56 | 135.96 | 1.18 | -2.39 | 8.79 | 123.46 |
| 341 | 22.61 | 137.98 | 1.16 | -2.39 | 8.51 | 123.37 |
| 342 | 22.65 | 139.19 | 1.14 | -2.39 | 8.23 | 123.24 |
| 343 | 22.71 | 140.61 | 1.11 | -2.39 | 8.00 | 123.09 |
| 344 | 22.76 | 141.21 | 1.08 | -2.39 | 7.75 | 122.87 |
| 345 | 22.85 | 141.72 | 1.03 | -2.39 | 7.57 | 122.67 |
| 346 | 22.89 | 141.82 | 1.02 | -2.39 | 7.41 | 122.48 |
| 347 | 22.99 | 141.92 | 1.00 | -2.39 | 7.34 | 122.38 |
| 348 | 23.04 | 141.92 | 0.99 | -2.39 | 7.26 | 122.31 |
| 349 | 23.12 | 142.83 | 0.99 | -2.39 | 7.17 | 122.30 |
| 350 | 23.18 | 145.06 | 0.99 | -2.39 | 7.02 | 122.35 |
| 351 | 23.24 | 147.58 | 1.00 | -2.39 | 6.88 | 122.47 |
| 352 | 23.33 | 150.11 | 1.02 | -2.39 | 6.74 | 122.61 |
| 353 | 23.38 | 153.24 | 1.03 | -2.48 | 6.65 | 122.79 |
| 354 | 23.47 | 155.06 | 1.05 | -2.48 | 6.58 | 122.94 |
| 355 | 23.52 | 156.58 | 1.07 | -2.48 | 6.66 | 123.16 |
| 356 | 23.61 | 156.07 | 1.12 | -2.48 | 6.86 | 123.36 |
| 357 | 23.68 | 153.95 | 1.15 | -2.48 | 7.23 | 123.57 |
| 358 | 23.76 | 150.31 | 1.19 | -2.48 | 7.68 | 123.69 |
| 359 | 23.83 | 145.46 | 1.20 | -2.48 | 8.20 | 123.74 |
| 360 | 23.90 | 140.61 | 1.21 | -2.48 | 8.71 | 123.73 |
| 361 | 23.97 | 136.36 | 1.22 | -2.48 | 9.28 | 123.71 |
| 362 | 24.05 | 131.21 | 1.23 | -2.48 | 9.97 | 123.67 |
| 363 | 24.10 | 123.63 | 1.24 | -2.48 | 10.81 | 123.59 |
| 364 | 24.19 | 116.75 | 1.24 | -2.48 | 11.87 | 123.44 |
| 365 | 24.27 | 108.16 | 1.24 | -2.48 | 12.89 | 123.28 |
| 366 | 24.34 | 103.31 | 1.24 | -2.48 | 13.89 | 123.13 |
| 367 | 24.43 | 98.56 | 1.23 | -2.58 | 14.65 | 123.04 |
| 368 | 24.48 | 96.03 | 1.24 | -2.58 | 15.39 | 123.04 |
| 369 | 24.57 | 93.50 | 1.28 | -2.77 | 16.07 | 123.15 |
| 370 | 24.62 | 91.89 | 1.32 | -2.86 | 16.33 | 122.96 |
| 371 | 24.72 | 90.17 | 1.17 | -3.15 | 16.56 | 122.82 |
| 372 | 24.81 | 89.06 | 1.23 | -3.53 | 16.74 | 122.68 |
| 373 | 24.86 | 88.15 | 1.26 | -3.91 | 17.34 | 122.92 |
| 374 | 24.95 | 86.83 | 1.31 | -4.58 | 18.26 | 123.01 |
| 375 | 25.01 | 80.77 | 1.32 | -5.22 | 19.01 | 123.05 |
| 376 | 25.02 | 81.12 | 1.32 | -5.22 | 19.54 | 123.03 |
| 377 | 25.05 | 81.47 | 1.33 | -5.22 | 19.39 | 123.10 |
| 378 | 25.11 | 83.09 | 1.34 | -6.01 | 19.35 | 123.16 |
| 379 | 25.15 | 82.69 | 1.35 | -6.39 | 19.38 | 123.22 |
| 380 | 25.21 | 82.08 | 1.36 | -6.87 | 19.61 | 123.23 |
| 381 | 25.25 | 81.27 | 1.36 | -7.16 | 19.86 | 123.21 |
| 382 | 25.30 | 80.16 | 1.35 | -7.45 | 20.12 | 123.10 |
| 383 | 25.40 | 78.24 | 1.31 | -8.49 | 20.43 | 122.88 |
| 384 | 25.45 | 76.01 | 1.27 | -8.88 | 20.89 | 122.49 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 385 | 25.52 | 71.57 | 1.20 | -9.54 | 21.58 | 121.99 |
| 386 | 25.60 | 66.92 | 1.12 | -9.93 | 23.10 | 121.43 |
| 387 | 25.66 | 58.73 | 1.10 | -10.40 | 25.37 | 120.85 |
| 388 | 25.74 | 51.45 | 1.05 | -10.50 | 29.28 | 120.35 |
| 389 | 25.80 | 42.15 | 1.06 | -10.69 | 34.11 | 119.74 |
| 390 | 25.88 | 34.67 | 1.01 | -10.79 | 40.89 | 119.02 |
| 391 | 25.94 | 26.89 | 0.97 | -10.79 | 48.17 | 118.23 |
| 392 | 26.02 | 22.64 | 0.95 | -10.79 | 56.96 | 117.39 |
| 393 | 26.09 | 19.00 | 0.88 | -10.79 | 63.54 | 116.56 |
| 394 | 26.17 | 16.38 | 0.82 | -10.69 | 70.12 | 115.68 |
| 395 | 26.23 | 14.15 | 0.78 | -10.69 | 75.56 | 115.05 |
| 396 | 26.29 | 13.44 | 0.77 | -10.69 | 79.02 | 114.78 |
| 397 | 26.37 | 13.55 | 0.78 | -10.50 | 78.84 | 114.95 |
| 398 | 26.46 | 14.66 | 0.82 | -10.50 | 75.43 | 115.54 |
| 399 | 26.55 | 17.08 | 0.90 | -10.40 | 71.32 | 116.21 |
| 400 | 26.60 | 18.40 | 0.93 | -10.31 | 68.23 | 116.84 |
| 401 | 26.70 | 19.10 | 0.98 | -10.31 | 67.29 | 117.29 |
| 402 | 26.78 | 19.31 | 1.04 | -10.31 | 67.28 | 117.57 |
| 403 | 26.87 | 19.31 | 1.03 | -10.31 | 65.46 | 116.94 |
| 404 | 26.94 | 19.31 | 0.72 | -10.31 | 62.21 | 115.56 |
| 405 | 27.03 | 19.00 | 0.56 | -10.31 | 60.24 | 114.24 |
| 406 | 27.13 | 17.99 | 0.66 | -10.31 | 61.72 | 113.90 |
| 407 | 27.18 | 16.98 | 0.66 | -10.31 | 68.38 | 114.01 |
| 408 | 27.27 | 13.14 | 0.67 | -10.20 | 73.05 | 113.89 |
| 409 | 27.32 | 14.15 | 0.68 | -10.20 | 75.75 | 113.91 |
| 410 | 27.37 | 15.16 | 0.70 | -10.20 | 73.86 | 114.24 |
| 411 | 27.41 | 15.16 | 0.73 | -10.12 | 73.36 | 114.52 |
| 412 | 27.46 | 15.16 | 0.75 | -10.12 | 74.03 | 114.74 |
| 413 | 27.51 | 15.16 | 0.76 | -10.02 | 74.31 | 115.06 |
| 414 | 27.61 | 15.67 | 0.82 | -10.02 | 73.92 | 115.57 |
| 415 | 27.66 | 16.68 | 0.89 | -9.93 | 72.75 | 116.57 |
| 416 | 27.73 | 18.50 | 1.06 | -9.93 | 69.00 | 118.04 |
| 417 | 27.80 | 23.15 | 1.28 | -9.93 | 64.92 | 119.84 |
| 418 | 27.88 | 27.09 | 1.57 | -9.93 | 61.75 | 121.59 |
| 419 | 27.96 | 29.72 | 1.88 | -9.93 | 61.15 | 122.86 |
| 420 | 28.04 | 29.82 | 2.03 | -10.02 | 62.65 | 123.82 |
| 421 | 28.12 | 29.21 | 2.29 | -10.02 | 64.46 | 124.33 |
| 422 | 28.18 | 29.31 | 2.33 | -10.02 | 64.94 | 124.77 |
| 423 | 28.27 | 31.24 | 2.40 | -10.02 | 63.60 | 125.01 |
| 424 | 28.32 | 32.85 | 2.43 | -10.02 | 61.44 | 125.31 |
| 425 | 28.42 | 34.87 | 2.48 | -10.02 | 59.28 | 125.61 |
| 426 | 28.47 | 37.40 | 2.56 | -10.02 | 57.63 | 126.07 |
| 427 | 28.61 | 39.22 | 2.75 | -10.02 | 56.63 | 126.53 |
| 428 | 28.67 | 40.43 | 2.86 | -10.02 | 55.75 | 127.05 |
| 429 | 28.75 | 43.16 | 3.02 | -10.02 | 52.70 | 127.47 |
| 430 | 28.81 | 47.71 | 3.06 | -9.93 | 47.96 | 127.92 |
| 431 | 28.90 | 58.12 | 3.04 | -9.83 | 41.37 | 128.35 |
| 432 | 29.00 | 72.07 | 3.02 | -9.93 | 35.34 | 128.76 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 433 | 29.05 | 82.28 | 3.02 | -10.02 | 30.50 | 129.11 |
| 434 | 29.10 | 94.11 | 3.00 | -10.21 | 27.19 | 129.31 |
| 435 | 29.15 | 101.79 | 2.92 | -10.31 | 24.40 | 129.24 |
| 436 | 29.24 | 107.76 | 2.68 | -10.98 | 22.48 | 128.87 |
| 437 | 29.29 | 108.56 | 2.46 | -12.31 | 21.04 | 128.21 |
| 438 | 29.37 | 106.54 | 2.19 | -13.08 | 20.19 | 127.50 |
| 439 | 29.43 | 105.43 | 2.02 | -13.84 | 19.39 | 126.74 |
| 440 | 29.53 | 104.93 | 1.82 | -14.22 | 18.65 | 126.11 |
| 441 | 29.62 | 104.93 | 1.70 | -13.79 | 18.12 | 125.67 |
| 442 | 29.68 | 104.93 | 1.71 | -13.74 | 17.48 | 125.18 |
| 443 | 29.80 | 104.93 | 1.48 | -9.45 | 17.32 | 124.98 |
| 444 | 29.91 | 103.81 | 1.57 | -4.29 | 17.30 | 124.83 |
| 445 | 30.00 | 102.90 | 1.62 | -3.72 | 18.66 | 124.98 |
| 446 | 30.07 | 90.77 | 1.65 | -4.39 | 19.24 | 125.07 |
| 447 | 30.15 | 98.76 | 1.66 | -4.39 | 19.60 | 125.10 |
| 448 | 30.21 | 99.47 | 1.66 | -4.39 | 19.01 | 125.18 |
| 449 | 30.26 | 99.06 | 1.66 | -2.96 | 19.09 | 125.17 |
| 450 | 30.31 | 97.75 | 1.66 | -2.96 | 19.36 | 125.12 |
| 451 | 30.38 | 95.83 | 1.65 | -2.96 | 19.77 | 125.02 |
| 452 | 30.45 | 93.10 | 1.62 | -2.86 | 20.38 | 124.87 |
| 453 | 30.50 | 89.06 | 1.61 | -2.86 | 21.16 | 124.68 |
| 454 | 30.55 | 85.31 | 1.58 | -2.86 | 22.05 | 124.38 |
| 455 | 30.64 | 80.56 | 1.51 | -2.86 | 22.84 | 124.05 |
| 456 | 30.70 | 77.83 | 1.46 | -2.86 | 23.38 | 123.62 |
| 457 | 30.79 | 75.51 | 1.39 | -2.86 | 23.69 | 123.34 |
| 458 | 30.84 | 74.90 | 1.38 | -2.86 | 23.72 | 123.20 |
| 459 | 30.93 | 76.12 | 1.39 | -2.96 | 23.33 | 123.30 |
| 460 | 30.98 | 79.96 | 1.42 | -3.05 | 22.53 | 123.52 |
| 461 | 31.05 | 84.51 | 1.45 | -3.34 | 21.39 | 123.92 |
| 462 | 31.13 | 91.68 | 1.54 | -3.63 | 20.20 | 124.38 |
| 463 | 31.17 | 98.66 | 1.60 | -3.72 | 18.55 | 124.91 |
| 464 | 31.27 | 111.19 | 1.64 | -3.91 | 16.70 | 125.32 |
| 465 | 31.32 | 123.12 | 1.65 | -3.82 | 14.63 | 125.57 |
| 466 | 31.41 | 135.55 | 1.59 | -3.44 | 13.02 | 125.62 |
| 467 | 31.46 | 141.82 | 1.54 | -3.25 | 11.83 | 125.51 |
| 468 | 31.52 | 145.46 | 1.49 | -3.05 | 11.07 | 125.22 |
| 469 | 31.61 | 145.97 | 1.37 | -3.05 | 10.64 | 124.85 |
| 470 | 31.66 | 143.74 | 1.32 | -3.05 | 10.61 | 124.43 |
| 471 | 31.75 | 136.87 | 1.28 | -3.05 | 11.17 | 124.24 |
| 472 | 31.80 | 129.59 | 1.32 | -3.05 | 12.39 | 124.35 |
| 473 | 31.90 | 121.10 | 1.46 | -2.96 | 13.62 | 124.39 |
| 474 | 31.94 | 115.44 | 1.39 | -2.96 | 14.62 | 124.45 |
| 475 | 32.04 | 114.12 | 1.42 | -2.96 | 14.97 | 124.60 |
| 476 | 32.09 | 118.67 | 1.55 | -2.96 | 15.15 | 125.24 |
| 477 | 32.20 | 124.84 | 1.74 | -3.02 | 15.99 | 125.83 |
| 478 | 32.24 | 112.71 | 1.82 | -3.02 | 16.70 | 126.23 |
| 479 | 32.28 | 115.74 | 1.85 | -3.07 | 17.46 | 126.32 |
| 480 | 32.29 | 115.74 | 1.86 | -3.07 | 17.17 | 126.42 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 481 | 32.30 | 118.77 | 1.87 | -3.25 | 16.87 | 126.53 |
| 482 | 32.40 | 122.41 | 1.90 | -3.05 | 16.70 | 126.62 |
| 483 | 32.45 | 120.49 | 1.91 | -3.05 | 16.81 | 126.69 |
| 484 | 32.55 | 118.67 | 1.92 | -3.05 | 17.10 | 126.69 |
| 485 | 32.59 | 118.37 | 1.92 | -3.05 | 17.33 | 126.73 |
| 486 | 32.69 | 118.07 | 1.95 | -3.05 | 17.51 | 126.82 |
| 487 | 32.76 | 118.07 | 1.99 | -2.96 | 17.74 | 126.96 |
| 488 | 32.84 | 118.27 | 2.04 | -2.96 | 17.92 | 127.13 |
| 489 | 32.90 | 118.98 | 2.08 | -2.96 | 18.01 | 127.28 |
| 490 | 32.98 | 119.89 | 2.11 | -2.96 | 17.99 | 127.39 |
| 491 | 33.06 | 121.10 | 2.12 | -3.05 | 17.91 | 127.48 |
| 492 | 33.12 | 122.21 | 2.13 | -3.05 | 17.81 | 127.55 |
| 493 | 33.22 | 123.12 | 2.15 | -3.05 | 17.76 | 127.60 |
| 494 | 33.31 | 123.32 | 2.16 | -3.05 | 17.76 | 127.64 |
| 495 | 33.37 | 123.32 | 2.16 | -2.96 | 17.77 | 127.65 |
| 496 | 33.46 | 123.32 | 2.16 | -2.96 | 17.80 | 127.65 |
| 497 | 33.55 | 123.32 | 2.17 | -2.86 | 17.87 | 127.68 |
| 498 | 33.65 | 123.02 | 2.18 | -2.96 | 17.99 | 127.72 |
| 499 | 33.70 | 122.72 | 2.20 | -2.96 | 18.14 | 127.75 |
| 500 | 33.79 | 122.11 | 2.21 | -2.96 | 18.29 | 127.77 |
| 501 | 33.89 | 121.40 | 2.21 | -3.05 | 18.48 | 127.74 |
| 502 | 33.99 | 119.89 | 2.19 | -3.25 | 18.70 | 127.68 |
| 503 | 34.04 | 118.17 | 2.18 | -3.25 | 18.98 | 127.58 |
| 504 | 34.13 | 115.44 | 2.15 | -3.15 | 19.34 | 127.46 |
| 505 | 34.23 | 113.01 | 2.13 | -3.15 | 19.82 | 127.32 |
| 506 | 34.32 | 109.78 | 2.11 | -3.15 | 20.27 | 127.22 |
| 507 | 34.37 | 108.16 | 2.10 | -3.15 | 20.65 | 127.13 |
| 508 | 34.47 | 106.85 | 2.09 | -3.15 | 21.01 | 127.08 |
| 509 | 34.55 | 104.93 | 2.10 | -3.34 | 21.77 | 127.01 |
| 510 | 34.63 | 98.76 | 2.11 | -3.53 | 23.58 | 126.91 |
| 511 | 34.73 | 86.43 | 2.14 | -3.72 | 26.59 | 126.63 |
| 512 | 34.80 | 74.09 | 2.10 | -3.91 | 31.19 | 126.00 |
| 513 | 34.90 | 57.92 | 1.93 | -3.91 | 36.19 | 125.07 |
| 514 | 35.00 | 49.53 | 1.74 | -3.91 | 37.59 | 123.92 |
| 515 | 35.12 | 57.47 | 1.42 | -3.91 | 38.98 | 122.90 |
| 516 | 35.20 | 44.27 | 1.40 | -3.72 | 36.68 | 122.71 |
| 517 | 35.33 | 57.01 | 1.55 | -3.63 | 36.87 | 123.05 |
| 518 | 35.41 | 59.84 | 1.61 | -4.20 | 32.11 | 123.80 |
| 519 | 35.44 | 73.57 | 1.62 | -6.27 | 29.94 | 124.11 |
| 520 | 35.48 | 72.58 | 1.63 | -6.27 | 26.74 | 124.41 |
| 521 | 35.57 | 84.61 | 1.62 | -7.64 | 24.34 | 124.63 |
| 522 | 35.62 | 95.42 | 1.62 | -8.78 | 20.42 | 125.05 |
| 523 | 35.67 | 116.45 | 1.64 | -9.93 | 17.13 | 125.56 |
| 524 | 35.71 | 134.74 | 1.71 | -10.60 | 14.14 | 126.40 |
| 525 | 35.82 | 161.84 | 1.91 | -11.55 | 12.01 | 127.28 |
| 526 | 35.86 | 183.57 | 2.03 | -11.17 | 10.22 | 128.24 |
| 527 | 35.93 | 210.36 | 2.20 | -6.97 | 8.94 | 129.00 |
| 528 | 36.01 | 229.56 | 2.33 | -4.49 | 8.16 | 129.62 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 529 | 36.06 | 236.44 | 2.41 | -3.63 | 7.85 | 130.06 |
| 530 | 36.12 | 240.88 | 2.52 | -3.34 | 7.80 | 130.37 |
| 531 | 36.18 | 244.83 | 2.59 | -3.15 | 7.84 | 130.72 |
| 532 | 36.25 | 249.58 | 2.73 | -3.15 | 7.88 | 131.01 |
| 533 | 36.30 | 251.80 | 2.80 | -3.15 | 8.05 | 131.37 |
| 534 | 36.39 | 253.32 | 2.97 | -3.25 | 8.23 | 131.64 |
| 535 | 36.44 | 253.52 | 3.03 | -3.15 | 8.49 | 131.92 |
| 536 | 36.53 | 252.51 | 3.13 | -3.25 | 8.77 | 132.08 |
| 537 | 36.59 | 248.57 | 3.20 | -3.15 | 9.37 | 132.44 |
| 538 | 36.68 | 244.22 | 3.54 | -3.25 | 9.70 | 132.41 |
| 539 | 36.75 | 237.75 | 3.16 | -3.25 | 9.93 | 132.25 |
| 540 | 36.83 | 233.20 | 3.05 | -3.25 | 9.92 | 131.78 |
| 541 | 36.90 | 225.32 | 3.02 | -3.25 | 10.25 | 131.57 |
| 542 | 36.97 | 217.43 | 2.99 | -3.25 | 10.78 | 131.42 |
| 543 | 37.02 | 208.94 | 2.97 | -3.25 | 11.95 | 131.17 |
| 544 | 37.04 | 178.92 | 2.94 | -3.25 | 12.56 | 130.99 |
| 545 | 37.08 | 193.37 | 2.89 | -3.25 | 12.85 | 130.76 |
| 546 | 37.17 | 193.68 | 2.77 | -3.25 | 12.27 | 130.55 |
| 547 | 37.27 | 188.42 | 2.66 | -3.25 | 12.36 | 130.20 |
| 548 | 37.37 | 179.93 | 2.56 | -3.15 | 12.63 | 129.85 |
| 549 | 37.42 | 175.89 | 2.48 | -3.34 | 12.60 | 129.41 |
| 550 | 37.51 | 175.94 | 2.26 | -3.34 | 12.21 | 128.93 |
| 551 | 37.58 | 175.99 | 2.11 | -3.34 | 11.53 | 128.42 |
| 552 | 37.66 | 179.12 | 2.01 | -3.34 | 10.87 | 128.00 |
| 553 | 37.76 | 182.05 | 1.88 | -3.34 | 10.12 | 127.61 |
| 554 | 37.85 | 186.70 | 1.77 | -3.25 | 9.43 | 127.24 |
| 555 | 37.93 | 189.63 | 1.70 | -3.25 | 8.90 | 127.02 |
| 556 | 38.04 | 192.67 | 1.69 | -3.25 | 8.61 | 126.94 |
| 557 | 38.13 | 194.59 | 1.69 | -3.25 | 8.49 | 126.94 |
| 558 | 38.18 | 194.49 | 1.69 | -3.25 | 8.53 | 126.96 |
| 559 | 38.28 | 191.76 | 1.70 | -3.25 | 8.89 | 127.11 |
| 560 | 38.37 | 187.61 | 1.81 | -3.25 | 9.47 | 127.34 |
| 561 | 38.47 | 182.96 | 1.89 | -3.25 | 10.26 | 127.74 |
| 562 | 38.57 | 180.23 | 2.05 | -3.25 | 10.93 | 128.06 |
| 563 | 38.62 | 178.11 | 2.10 | -3.25 | 11.67 | 128.38 |
| 564 | 38.72 | 172.15 | 2.20 | -3.25 | 12.92 | 128.49 |
| 565 | 38.78 | 152.33 | 2.27 | -3.26 | 13.99 | 128.58 |
| 566 | 38.81 | 156.28 | 2.28 | -3.25 | 14.73 | 128.61 |
| 567 | 38.86 | 157.49 | 2.30 | -3.25 | 14.82 | 128.67 |
| 568 | 38.91 | 151.93 | 2.32 | -3.25 | 15.34 | 128.70 |
| 569 | 38.95 | 146.77 | 2.36 | -3.25 | 16.32 | 128.70 |
| 570 | 39.05 | 139.19 | 2.39 | -3.25 | 17.39 | 128.67 |
| 571 | 39.09 | 132.82 | 2.40 | -3.34 | 18.62 | 128.58 |
| 572 | 39.14 | 125.24 | 2.40 | -3.34 | 19.92 | 128.44 |
| 573 | 39.24 | 117.26 | 2.39 | -3.34 | 21.20 | 128.25 |
| 574 | 39.29 | 112.20 | 2.35 | -3.34 | 22.35 | 128.02 |
| 575 | 39.39 | 107.15 | 2.30 | -3.34 | 23.14 | 127.89 |
| 576 | 39.43 | 106.24 | 2.34 | -3.34 | 23.05 | 127.94 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 577 | 39.53 | 114.22 | 2.38 | -3.53 | 21.86 | 128.13 |
| 578 | 39.57 | 124.74 | 2.36 | -3.63 | 20.02 | 128.31 |
| 579 | 39.68 | 133.73 | 2.34 | -4.49 | 18.81 | 128.39 |
| 580 | 39.73 | 133.63 | 2.33 | -3.67 | 18.53 | 128.37 |
| 581 | 39.81 | 128.68 | 2.32 | -4.39 | 18.86 | 128.23 |
| 582 | 39.89 | 125.85 | 2.25 | -3.72 | 18.82 | 127.76 |
| 583 | 39.96 | 124.74 | 1.96 | -3.44 | 18.19 | 127.14 |
| 584 | 40.06 | 125.34 | 1.81 | -3.34 | 17.66 | 126.63 |
| 585 | 40.15 | 123.63 | 1.86 | -3.34 | 17.93 | 126.54 |
| 586 | 40.20 | 119.28 | 1.91 | -3.44 | 19.75 | 126.53 |
| 587 | 40.24 | 100.48 | 1.93 | -3.71 | 21.16 | 126.50 |
| 588 | 40.26 | 106.09 | 1.93 | -3.71 | 22.23 | 126.44 |
| 589 | 40.27 | 106.09 | 1.94 | -3.71 | 21.47 | 126.59 |
| 590 | 40.37 | 111.70 | 1.99 | -3.91 | 21.22 | 126.73 |
| 591 | 40.42 | 111.70 | 2.01 | -4.01 | 21.04 | 126.91 |
| 592 | 40.52 | 111.70 | 2.06 | -4.20 | 21.09 | 127.05 |
| 593 | 40.56 | 113.92 | 2.09 | -4.39 | 20.77 | 127.30 |
| 594 | 40.66 | 120.39 | 2.17 | -4.49 | 19.70 | 127.64 |
| 595 | 40.70 | 132.62 | 2.24 | -4.77 | 18.40 | 128.08 |
| 596 | 40.75 | 141.82 | 2.32 | -5.25 | 17.09 | 128.59 |
| 597 | 40.85 | 153.55 | 2.47 | -5.63 | 16.06 | 129.13 |
| 598 | 40.91 | 165.07 | 2.59 | -5.63 | 15.13 | 129.61 |
| 599 | 40.96 | 173.76 | 2.65 | -5.63 | 14.17 | 129.97 |
| 600 | 41.04 | 185.49 | 2.68 | -5.63 | 13.29 | 130.19 |
| 601 | 41.09 | 193.78 | 2.70 | -4.96 | 12.46 | 130.39 |
| 602 | 41.18 | 202.77 | 2.73 | -4.20 | 11.82 | 130.54 |
| 603 | 41.23 | 209.35 | 2.74 | -3.72 | 11.36 | 130.66 |
| 604 | 41.29 | 211.97 | 2.74 | -3.63 | 11.10 | 130.71 |
| 605 | 41.38 | 213.59 | 2.74 | -3.63 | 11.02 | 130.73 |
| 606 | 41.42 | 212.88 | 2.74 | -3.53 | 11.10 | 130.74 |
| 607 | 41.52 | 209.95 | 2.77 | -3.53 | 11.32 | 130.76 |
| 608 | 41.57 | 207.42 | 2.79 | -3.53 | 11.64 | 130.80 |
| 609 | 41.62 | 204.59 | 2.83 | -3.44 | 11.95 | 130.86 |
| 610 | 41.71 | 202.88 | 2.87 | -3.44 | 12.22 | 130.92 |
| 611 | 41.76 | 202.07 | 2.89 | -3.44 | 12.42 | 131.01 |
| 612 | 41.84 | 201.66 | 2.94 | -3.44 | 12.59 | 131.09 |
| 613 | 41.91 | 201.36 | 2.97 | -3.44 | 12.74 | 131.20 |
| 614 | 41.95 | 201.76 | 3.03 | -3.53 | 12.88 | 131.32 |
| 615 | 42.01 | 202.27 | 3.09 | -3.53 | 13.08 | 131.54 |
| 616 | 42.10 | 203.68 | 3.24 | -3.53 | 13.30 | 131.80 |
| 617 | 42.15 | 204.90 | 3.34 | -3.53 | 13.56 | 132.12 |
| 618 | 42.24 | 206.51 | 3.49 | -3.53 | 13.76 | 132.35 |
| 619 | 42.28 | 206.82 | 3.55 | -3.53 | 13.82 | 132.43 |
| 620 | 42.39 | 206.21 | 3.45 | -3.53 | 13.78 | 132.37 |
| 621 | 42.43 | 205.91 | 3.41 | -3.53 | 13.60 | 132.21 |
| 622 | 42.50 | 206.26 | 3.33 | -3.53 | 13.33 | 131.99 |
| 623 | 42.58 | 206.31 | 3.14 | -3.53 | 12.97 | 131.71 |
| 624 | 42.65 | 206.41 | 3.03 | -3.53 | 13.30 | 131.34 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 625 | 42.70 | 184.28 | 2.97 | -3.61 | 13.40 | 131.14 |
| 626 | 42.73 | 197.11 | 2.95 | -3.61 | 13.48 | 131.01 |
| 627 | 42.77 | 199.94 | 2.91 | -3.61 | 12.77 | 131.00 |
| 628 | 42.82 | 203.68 | 2.86 | -3.62 | 12.36 | 130.97 |
| 629 | 42.87 | 208.03 | 2.85 | -3.62 | 11.87 | 131.00 |
| 630 | 42.91 | 215.81 | 2.87 | -3.63 | 11.40 | 131.10 |
| 631 | 42.97 | 222.69 | 2.90 | -3.53 | 11.00 | 131.25 |
| 632 | 43.02 | 226.93 | 2.94 | -3.44 | 10.78 | 131.43 |
| 633 | 43.06 | 230.98 | 3.03 | -3.53 | 10.72 | 131.66 |
| 634 | 43.11 | 233.71 | 3.13 | -3.53 | 10.67 | 131.89 |
| 635 | 43.17 | 238.46 | 3.19 | -3.63 | 10.57 | 132.05 |
| 636 | 43.21 | 241.79 | 3.19 | -3.63 | 10.32 | 132.13 |
| 637 | 43.29 | 246.54 | 3.17 | -3.63 | 10.05 | 132.16 |
| 638 | 43.34 | 250.39 | 3.16 | -3.63 | 9.74 | 132.17 |
| 639 | 43.39 | 254.83 | 3.15 | -3.53 | 9.49 | 132.17 |
| 640 | 43.45 | 257.26 | 3.12 | -3.53 | 9.24 | 132.11 |
| 641 | 43.51 | 258.67 | 3.05 | -3.63 | 8.93 | 131.89 |
| 642 | 43.59 | 258.98 | 2.87 | -3.63 | 8.66 | 131.64 |
| 643 | 43.64 | 258.27 | 2.81 | -3.63 | 8.23 | 131.24 |
| 644 | 43.70 | 260.49 | 2.58 | -3.63 | 7.80 | 130.79 |
| 645 | 43.78 | 259.28 | 2.37 | -3.63 | 7.50 | 130.39 |
| 646 | 43.88 | 255.44 | 2.40 | -3.63 | 7.60 | 130.26 |
| 647 | 43.94 | 250.99 | 2.49 | -3.63 | 8.46 | 130.43 |
| 648 | 44.04 | 228.05 | 2.65 | -3.66 | 9.36 | 130.60 |
| 649 | 44.07 | 225.92 | 2.69 | -3.63 | 10.23 | 130.73 |
| 650 | 44.12 | 223.80 | 2.73 | -3.66 | 10.49 | 130.79 |
| 651 | 44.16 | 221.17 | 2.75 | -3.63 | 10.73 | 130.81 |
| 652 | 44.21 | 218.64 | 2.74 | -3.63 | 11.01 | 130.81 |
| 653 | 44.26 | 214.50 | 2.77 | -3.63 | 11.32 | 130.81 |
| 654 | 44.31 | 210.96 | 2.79 | -3.63 | 11.70 | 130.81 |
| 655 | 44.35 | 207.12 | 2.80 | -3.72 | 12.07 | 130.81 |
| 656 | 44.40 | 202.98 | 2.81 | -3.72 | 12.44 | 130.79 |
| 657 | 44.45 | 199.84 | 2.82 | -3.72 | 12.75 | 130.78 |
| 658 | 44.50 | 197.82 | 2.82 | -3.72 | 12.98 | 130.76 |
| 659 | 44.54 | 196.00 | 2.82 | -3.72 | 13.20 | 130.75 |
| 660 | 44.60 | 193.78 | 2.85 | -3.72 | 13.50 | 130.78 |
| 661 | 44.64 | 190.75 | 2.88 | -3.72 | 13.86 | 130.82 |
| 662 | 44.69 | 188.52 | 2.92 | -3.72 | 14.21 | 130.87 |
| 663 | 44.74 | 186.60 | 2.94 | -3.82 | 14.38 | 130.92 |
| 664 | 44.79 | 188.37 | 2.96 | -3.82 | 14.49 | 130.94 |
| 665 | 44.83 | 186.70 | 2.95 | -3.82 | 14.44 | 130.96 |
| 666 | 44.88 | 188.22 | 2.95 | -3.82 | 14.34 | 130.97 |
| 667 | 44.93 | 191.76 | 2.96 | -3.82 | 14.12 | 131.02 |
| 668 | 44.98 | 193.78 | 2.97 | -3.72 | 13.90 | 131.07 |
| 669 | 45.03 | 195.70 | 2.97 | -3.82 | 13.77 | 131.11 |
| 670 | 45.08 | 196.61 | 2.98 | -3.72 | 13.68 | 131.13 |
| 671 | 45.16 | 197.32 | 2.98 | -3.82 | 13.57 | 131.13 |
| 672 | 45.19 | 198.83 | 2.96 | -3.72 | 13.41 | 131.06 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 673 | 45.27 | 198.73 | 2.88 | -3.82 | 13.22 | 130.92 |
| 674 | 45.32 | 197.92 | 2.81 | -3.82 | 13.07 | 130.71 |
| 675 | 45.37 | 196.20 | 2.73 | -3.82 | 12.89 | 130.37 |
| 676 | 45.45 | 192.77 | 2.52 | -3.82 | 12.75 | 129.96 |
| 677 | 45.51 | 188.52 | 2.41 | -3.82 | 12.79 | 129.49 |
| 678 | 45.56 | 180.54 | 2.32 | -3.82 | 13.16 | 129.13 |
| 679 | 45.61 | 172.65 | 2.26 | -3.82 | 14.11 | 128.81 |
| 680 | 45.69 | 156.48 | 2.24 | -3.82 | 15.78 | 128.59 |
| 681 | 45.75 | 140.00 | 2.30 | -3.82 | 18.95 | 128.52 |
| 682 | 45.81 | 115.94 | 2.49 | -3.91 | 22.57 | 127.65 |
| 683 | 45.89 | 90.17 | 1.83 | -3.91 | 27.28 | 126.48 |
| 684 | 45.94 | 73.89 | 1.73 | -3.91 | 32.45 | 124.69 |
| 685 | 46.04 | 56.20 | 1.58 | -3.91 | 38.98 | 123.71 |
| 686 | 46.08 | 47.71 | 1.52 | -3.91 | 47.47 | 122.68 |
| 687 | 46.15 | 36.09 | 1.45 | -3.82 | 56.21 | 122.08 |
| 688 | 46.17 | 36.19 | 1.44 | -3.53 | 60.34 | 121.69 |
| 689 | 46.18 | 36.19 | 1.43 | -3.53 | 60.04 | 121.61 |
| 690 | 46.23 | 36.29 | 1.40 | -3.53 | 59.44 | 121.53 |
| 691 | 46.27 | 37.10 | 1.38 | -3.44 | 58.23 | 121.42 |
| 692 | 46.32 | 38.31 | 1.34 | -3.15 | 56.14 | 121.33 |
| 693 | 46.41 | 40.64 | 1.30 | -2.86 | 51.16 | 121.34 |
| 694 | 46.47 | 43.06 | 1.32 | -2.77 | 48.66 | 121.54 |
| 695 | 46.52 | 45.89 | 1.37 | -2.77 | 47.10 | 121.93 |
| 696 | 46.56 | 47.51 | 1.45 | -2.77 | 46.43 | 122.56 |
| 697 | 46.65 | 49.43 | 1.62 | -2.67 | 46.28 | 123.25 |
| 698 | 46.71 | 51.45 | 1.75 | -2.58 | 46.04 | 123.95 |
| 699 | 46.76 | 53.78 | 1.86 | -2.48 | 44.89 | 124.54 |
| 700 | 46.85 | 58.12 | 1.95 | -2.39 | 42.94 | 124.99 |
| 701 | 46.90 | 62.77 | 1.97 | -2.39 | 40.08 | 125.34 |
| 702 | 46.99 | 69.04 | 1.98 | -2.48 | 37.61 | 125.55 |
| 703 | 47.04 | 71.97 | 1.98 | -2.48 | 36.35 | 125.63 |
| 704 | 47.10 | 70.15 | 1.97 | -2.77 | 36.71 | 125.56 |
| 705 | 47.16 | 66.51 | 1.95 | -3.34 | 38.66 | 125.31 |
| 706 | 47.23 | 59.84 | 1.90 | -3.82 | 41.64 | 124.83 |
| 707 | 47.30 | 52.66 | 1.77 | -4.20 | 46.53 | 124.02 |
| 708 | 47.38 | 42.05 | 1.62 | -4.58 | 55.83 | 123.02 |
| 709 | 47.43 | 33.76 | 1.52 | -4.58 | 63.91 | 121.70 |
| 710 | 47.52 | 27.09 | 1.27 | -4.77 | 70.43 | 120.03 |
| 711 | 47.59 | 23.86 | 0.95 | -4.77 | 72.90 | 117.35 |
| 712 | 47.66 | 21.03 | 0.52 | -4.77 | 72.89 | 114.76 |
| 713 | 47.77 | 19.51 | 0.53 | -4.68 | 73.13 | 112.86 |
| 714 | 47.82 | 18.80 | 0.54 | -4.58 | 76.41 | 112.94 |
| 715 | 47.91 | 18.19 | 0.56 | -4.58 | 78.15 | 113.07 |
| 716 | 47.93 | 18.35 | 0.57 | -4.36 | 81.01 | 113.17 |
| 717 | 47.97 | 16.68 | 0.58 | -4.36 | 81.15 | 113.36 |
| 718 | 48.02 | 18.50 | 0.60 | -4.36 | 81.66 | 113.65 |
| 719 | 48.07 | 18.60 | 0.64 | -4.23 | 80.69 | 114.13 |
| 720 | 48.12 | 18.60 | 0.68 | -4.10 | 82.08 | 114.75 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 721 | 48.19 | 18.80 | 0.77 | -4.01 | 83.29 | 115.28 |
| 722 | 48.23 | 18.90 | 0.79 | -4.01 | 83.94 | 115.75 |
| 723 | 48.31 | 19.21 | 0.82 | -4.01 | 83.94 | 116.02 |
| 724 | 48.35 | 19.51 | 0.84 | -3.91 | 83.94 | 116.26 |
| 725 | 48.40 | 19.51 | 0.86 | -3.91 | 84.74 | 116.39 |
| 726 | 48.45 | 18.90 | 0.88 | -3.91 | 86.54 | 116.45 |
| 727 | 48.50 | 18.19 | 0.88 | -3.82 | 89.36 | 116.43 |
| 728 | 48.55 | 17.29 | 0.89 | -3.72 | 90.62 | 116.47 |
| 729 | 48.59 | 18.09 | 0.90 | -3.72 | 91.76 | 116.60 |
| 730 | 48.67 | 17.69 | 0.94 | -3.53 | 91.23 | 116.72 |
| 731 | 48.73 | 17.99 | 0.92 | -3.53 | 91.27 | 116.67 |
| 732 | 48.78 | 17.99 | 0.89 | -3.53 | 89.99 | 116.42 |
| 733 | 48.83 | 18.09 | 0.84 | -3.53 | 88.84 | 116.04 |
| 734 | 48.91 | 17.99 | 0.79 | -3.44 | 87.70 | 115.60 |
| 735 | 48.98 | 17.89 | 0.74 | -3.34 | 86.94 | 115.19 |
| 736 | 49.03 | 17.79 | 0.72 | -3.15 | 86.65 | 114.95 |
| 737 | 49.12 | 17.69 | 0.72 | -3.05 | 85.60 | 114.48 |
| 738 | 49.17 | 17.69 | 0.61 | -2.96 | 83.33 | 113.76 |
| 739 | 49.27 | 17.99 | 0.53 | -2.96 | 80.70 | 113.14 |
| 740 | 49.31 | 18.50 | 0.56 | -2.86 | 79.11 | 113.26 |
| 741 | 49.38 | 19.31 | 0.62 | -2.77 | 78.69 | 113.92 |
| 742 | 49.45 | 19.91 | 0.66 | -2.67 | 78.67 | 114.51 |
| 743 | 49.51 | 20.01 | 0.70 | -2.67 | 81.86 | 114.78 |
| 744 | 49.54 | 17.18 | 0.72 | -2.34 | 81.23 | 115.10 |
| 745 | 49.59 | 21.23 | 0.74 | -2.34 | 79.36 | 115.30 |
| 746 | 49.64 | 22.24 | 0.73 | -2.34 | 75.47 | 115.37 |
| 747 | 49.73 | 21.23 | 0.70 | -2.00 | 76.06 | 115.20 |
| 748 | 49.83 | 20.22 | 0.70 | -2.00 | 78.94 | 114.89 |
| 749 | 49.92 | 18.70 | 0.68 | -1.91 | 82.21 | 114.64 |
| 750 | 49.98 | 17.79 | 0.67 | -1.81 | 85.18 | 114.35 |
| 751 | 50.07 | 17.18 | 0.66 | -1.72 | 86.78 | 114.13 |
| 752 | 50.16 | 17.08 | 0.64 | -1.62 | 87.78 | 113.97 |
| 753 | 50.24 | 16.78 | 0.64 | -1.53 | 88.72 | 113.83 |
| 754 | 50.32 | 16.27 | 0.63 | -1.43 | 89.58 | 113.75 |
| 755 | 50.41 | 16.38 | 0.63 | -1.43 | 90.32 | 113.77 |
| 756 | 50.50 | 16.38 | 0.65 | -1.34 | 90.32 | 113.80 |
| 757 | 50.56 | 16.38 | 0.64 | -1.34 | 90.32 | 113.63 |
| 758 | 50.66 | 16.07 | 0.59 | -1.24 | 90.38 | 113.36 |
| 759 | 50.74 | 15.87 | 0.59 | -1.15 | 90.68 | 113.17 |
| 760 | 50.84 | 15.87 | 0.60 | -1.15 | 92.49 | 113.65 |
| 761 | 50.93 | 15.87 | 0.71 | -1.05 | 95.02 | 114.60 |
| 762 | 50.98 | 16.17 | 0.85 | -1.05 | 96.87 | 116.37 |
| 763 | 51.08 | 18.30 | 1.14 | -0.95 | 92.70 | 118.68 |
| 764 | 51.17 | 24.36 | 1.53 | -0.76 | 84.52 | 120.98 |
| 765 | 51.24 | 30.73 | 1.80 | -0.76 | 77.19 | 122.97 |
| 766 | 51.34 | 35.28 | 2.14 | -0.57 | 74.02 | 124.16 |
| 767 | 51.41 | 34.97 | 2.26 | -0.57 | 71.12 | 123.46 |
| 768 | 51.51 | 32.25 | 1.21 | -0.57 | 70.63 | 122.43 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 769 | 51.58 | 31.24 | 1.48 | -0.57 | 69.74 | 121.04 |
| 770 | 51.68 | 30.12 | 1.47 | -0.38 | 72.97 | 121.32 |
| 771 | 51.79 | 28.51 | 1.42 | -0.38 | 77.64 | 121.01 |
| 772 | 51.82 | 23.55 | 1.42 | 0.00 | 80.70 | 120.81 |
| 773 | 51.85 | 25.57 | 1.43 | 0.00 | 84.43 | 120.74 |
| 774 | 51.91 | 24.06 | 1.47 | 0.10 | 84.06 | 121.14 |
| 775 | 52.00 | 25.37 | 1.63 | 0.19 | 85.77 | 121.55 |
| 776 | 52.05 | 25.17 | 1.70 | 0.48 | 82.19 | 122.20 |
| 777 | 52.10 | 30.63 | 1.77 | 0.67 | 73.91 | 122.79 |
| 778 | 52.19 | 39.52 | 1.77 | 0.67 | 64.23 | 123.22 |
| 779 | 52.28 | 45.29 | 1.67 | 0.19 | 57.68 | 123.38 |
| 780 | 52.34 | 47.31 | 1.65 | -0.10 | 55.15 | 123.36 |
| 781 | 52.42 | 46.50 | 1.68 | -0.38 | 55.52 | 123.38 |
| 782 | 52.48 | 44.48 | 1.70 | -0.29 | 57.37 | 123.35 |
| 783 | 52.57 | 42.05 | 1.69 | -0.29 | 59.26 | 123.14 |
| 784 | 52.62 | 40.43 | 1.61 | -0.19 | 60.78 | 122.72 |
| 785 | 52.69 | 38.31 | 1.49 | 0.00 | 61.59 | 122.10 |
| 786 | 52.77 | 36.79 | 1.37 | 0.10 | 62.55 | 121.57 |
| 787 | 52.87 | 35.58 | 1.36 | 0.19 | 63.92 | 121.31 |
| 788 | 52.91 | 34.27 | 1.39 | 0.19 | 65.28 | 120.93 |
| 789 | 53.01 | 32.35 | 1.22 | 0.19 | 67.19 | 120.67 |
| 790 | 53.10 | 31.03 | 1.28 | 0.29 | 68.16 | 120.77 |
| 791 | 53.16 | 33.16 | 1.47 | 0.38 | 69.53 | 122.45 |
| 792 | 53.25 | 37.91 | 2.14 | 0.48 | 67.34 | 124.27 |
| 793 | 53.29 | 44.98 | 2.40 | 0.57 | 65.53 | 126.29 |
| 794 | 53.38 | 49.94 | 3.03 | 0.67 | 63.67 | 127.54 |
| 795 | 53.42 | 51.76 | 3.26 | 1.15 | 57.59 | 128.96 |
| 796 | 53.47 | 76.22 | 3.60 | 1.34 | 50.04 | 130.26 |
| 797 | 53.52 | 95.93 | 4.09 | 1.43 | 43.49 | 131.46 |
| 798 | 53.58 | 106.44 | 4.29 | 1.24 | 41.58 | 132.45 |
| 799 | 53.66 | 106.44 | 4.88 | -1.34 | 42.62 | 133.05 |
| 800 | 53.75 | 98.56 | 5.19 | -2.86 | 45.49 | 133.37 |
| 801 | 53.81 | 91.08 | 5.18 | -6.30 | 49.54 | 133.18 |
| 802 | 53.87 | 77.43 | 5.01 | -9.74 | 53.77 | 132.67 |
| 803 | 53.95 | 68.54 | 4.74 | -10.69 | 59.61 | 131.92 |
| 804 | 54.01 | 56.20 | 4.47 | -11.74 | 65.69 | 131.12 |
| 805 | 54.06 | 47.81 | 4.22 | -11.84 | 72.92 | 129.99 |
| 806 | 54.15 | 39.02 | 3.56 | -11.84 | 77.78 | 129.07 |
| 807 | 54.20 | 39.02 | 3.50 | -11.84 | 78.61 | 128.77 |
| 808 | 54.29 | 44.27 | 3.87 | -11.84 | 70.76 | 129.29 |
| 809 | 54.34 | 59.94 | 3.77 | -11.84 | 51.11 | 129.21 |
| 810 | 54.43 | 104.52 | 2.08 | -12.22 | 34.79 | 128.49 |
| 811 | 54.45 | 137.17 | 1.94 | -11.93 | 23.26 | 127.27 |
| 812 | 54.48 | 170.33 | 1.92 | -12.60 | 19.04 | 127.74 |
| 813 | 54.52 | 191.25 | 2.08 | -13.36 | 17.01 | 128.18 |
| 814 | 54.53 | 195.50 | 2.08 | -13.08 | 16.36 | 128.98 |
| 815 | 54.58 | 210.36 | 2.46 | -12.79 | 16.17 | 129.67 |
| 816 | 54.62 | 218.44 | 2.63 | -8.30 | 15.74 | 130.34 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 817 | 54.65 | 230.47 | 2.63 | -4.01 | 14.88 | 130.73 |
| 818 | 54.70 | 251.70 | 2.72 | -3.63 | 14.37 | 131.15 |
| 819 | 54.76 | 252.00 | 2.98 | -4.09 | 14.25 | 131.53 |
| 820 | 54.77 | 249.83 | 2.99 | -3.42 | 14.61 | 131.77 |
| 821 | 54.82 | 247.96 | 3.02 | -3.42 | 14.54 | 131.82 |
| 822 | 54.87 | 256.85 | 3.02 | -3.42 | 14.47 | 131.87 |
| 823 | 54.88 | 254.53 | 3.03 | -2.96 | 14.29 | 131.89 |
| 824 | 54.91 | 255.64 | 3.02 | -3.09 | 14.24 | 131.96 |
| 825 | 54.96 | 261.81 | 3.08 | -2.96 | 13.92 | 132.10 |
| 826 | 54.97 | 272.93 | 3.13 | -2.77 | 13.35 | 132.49 |
| 827 | 55.03 | 295.47 | 3.37 | -2.39 | 12.75 | 133.09 |
| 828 | 55.09 | 316.39 | 3.69 | -2.96 | 11.80 | 133.38 |
| 829 | 55.15 | 333.88 | 3.31 | -3.25 | 10.23 | 132.43 |
| 830 | 55.20 | 333.38 | 2.00 | -3.05 | 9.28 | 131.93 |
| 831 | 55.25 | 347.93 | 3.01 | -3.05 | 7.69 | 130.99 |
| 832 | 55.30 | 393.32 | 2.16 | -3.05 | 7.43 | 132.16 |
| 833 | 55.34 | 419.40 | 3.03 | -2.96 | 6.93 | 132.95 |
| 834 | 55.39 | 439.92 | 3.71 | -2.77 | 7.32 | 134.46 |
| 835 | 55.40 | 460.94 | 4.01 | -2.86 | 7.35 | 135.39 |
| 836 | 55.44 | 486.11 | 4.30 | -2.67 | 7.07 | 135.83 |
| 837 | 55.44 | 501.48 | 4.26 | -2.67 | 6.42 | 136.02 |
| 838 | 55.49 | 546.16 | 4.10 | -2.64 | 6.52 | 136.38 |
| 839 | 55.54 | 505.72 | 4.89 | -1.24 | 6.65 | 137.08 |
| 840 | 55.59 | 548.48 | 5.43 | -1.05 | 7.22 | 137.28 |
| 841 | 55.63 | 550.81 | 5.64 | -2.46 | 7.14 | 137.28 |
| 842 | 55.64 | 554.04 | 5.65 | -2.46 | 7.12 | 137.28 |
| 843 | 55.68 | 555.66 | 5.52 | -2.67 | 6.77 | 137.28 |
| 844 | 55.69 | 591.24 | 5.48 | -2.60 | 6.62 | 137.28 |
| 845 | 55.69 | 564.35 | 5.44 | -2.60 | 6.75 | 137.28 |
| 846 | 55.71 | 543.02 | 5.64 | -2.53 | 7.10 | 137.28 |
| 847 | 55.76 | 577.59 | 6.17 | -2.53 | 7.22 | 137.28 |
| 848 | 55.78 | 581.33 | 6.12 | -2.39 | 7.02 | 137.28 |
| 849 | 55.81 | 581.74 | 5.86 | -2.19 | 6.58 | 137.28 |
| 850 | 55.85 | 580.73 | 4.95 | -2.67 | 5.96 | 137.28 |
| 851 | 55.86 | 590.13 | 4.53 | -2.96 | 5.19 | 136.82 |
| 852 | 55.91 | 594.27 | 4.00 | -2.96 | 4.62 | 136.29 |
| 853 | 55.92 | 611.66 | 3.93 | -2.58 | 4.30 | 135.90 |
| 854 | 55.96 | 600.94 | 3.86 | -2.48 | 3.98 | 135.87 |
| 855 | 55.97 | 644.61 | 3.85 | -2.96 | 3.85 | 136.11 |
| 856 | 56.00 | 656.84 | 4.22 | -3.15 | 3.75 | 136.51 |
| 857 | 56.01 | 661.80 | 4.40 | -3.25 | 4.03 | 137.12 |
| 858 | 56.03 | 661.85 | 4.90 | -3.25 | 4.27 | 137.28 |
| 859 | 56.05 | 661.85 | 5.01 | -3.05 | 4.38 | 137.28 |
| 860 | 56.10 | 661.90 | 4.73 | -2.86 | 4.31 | 137.28 |
| 861 | 56.12 | 671.50 | 4.82 | -2.77 | 4.05 | 137.28 |
| 862 | 56.16 | 670.79 | 4.37 | -2.67 | 3.91 | 137.12 |
| 863 | 56.17 | 660.89 | 4.28 | -2.77 | 3.94 | 136.81 |
| 864 | 56.20 | 632.79 | 4.35 | -2.77 | 4.25 | 136.76 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 865 | 56.22 | 611.76 | 4.41 | -2.77 | 4.54 | 136.69 |
| 866 | 56.24 | 608.02 | 4.27 | -2.67 | 4.60 | 136.52 |
| 867 | 56.30 | 605.70 | 4.12 | -2.77 | 4.63 | 136.39 |
| 868 | 56.31 | 594.48 | 4.22 | -2.67 | 4.86 | 136.51 |
| 869 | 56.34 | 587.00 | 4.54 | -2.67 | 5.22 | 136.76 |
| 870 | 56.39 | 577.29 | 4.62 | -2.67 | 5.42 | 136.81 |
| 871 | 56.45 | 572.94 | 4.38 | -2.77 | 5.52 | 136.73 |
| 872 | 56.48 | 566.78 | 4.44 | -2.58 | 5.63 | 136.67 |
| 873 | 56.49 | 556.57 | 4.57 | -2.48 | 6.11 | 137.00 |
| 874 | 56.53 | 543.12 | 5.08 | -2.39 | 6.65 | 137.27 |
| 875 | 56.58 | 526.85 | 5.09 | -2.29 | 7.00 | 137.27 |
| 876 | 56.63 | 517.25 | 4.68 | -2.39 | 5.57 | 135.21 |
| 877 | 56.68 | 530.19 | 1.47 | -2.67 | 4.07 | 132.85 |
| 878 | 56.73 | 530.69 | 1.99 | -2.19 | 3.28 | 131.52 |
| 879 | 56.78 | 533.22 | 3.31 | -2.10 | 4.70 | 133.92 |
| 880 | 56.83 | 515.12 | 4.11 | -2.10 | 5.98 | 135.53 |
| 881 | 56.89 | 505.72 | 4.38 | -1.81 | 6.76 | 136.05 |
| 882 | 56.95 | 489.35 | 4.29 | -1.72 | 7.57 | 136.39 |
| 883 | 56.99 | 460.13 | 4.89 | -1.77 | 8.27 | 136.67 |
| 884 | 57.01 | 461.35 | 5.04 | -1.81 | 8.73 | 136.83 |
| 885 | 57.04 | 461.35 | 4.71 | -1.77 | 8.64 | 136.75 |
| 886 | 57.09 | 462.56 | 4.73 | -1.77 | 8.37 | 136.69 |
| 887 | 57.11 | 480.76 | 4.85 | -1.72 | 8.26 | 136.91 |
| 888 | 57.13 | 489.04 | 5.06 | -1.72 | 8.28 | 137.28 |
| 889 | 57.18 | 496.12 | 5.48 | -1.72 | 8.57 | 137.28 |
| 890 | 57.19 | 481.26 | 5.56 | -1.72 | 9.17 | 137.28 |
| 891 | 57.21 | 456.09 | 5.75 | -1.53 | 9.62 | 137.28 |
| 892 | 57.24 | 456.14 | 5.61 | -1.53 | 9.80 | 137.28 |
| 893 | 57.28 | 456.19 | 5.36 | -1.53 | 9.62 | 137.28 |
| 894 | 57.32 | 457.91 | 5.35 | -1.53 | 9.68 | 137.28 |
| 895 | 57.35 | 438.71 | 5.32 | -1.62 | 9.84 | 137.28 |
| 896 | 57.38 | 439.61 | 5.31 | -1.43 | 10.12 | 137.28 |
| 897 | 57.43 | 428.50 | 5.24 | -1.43 | 10.11 | 137.06 |
| 898 | 57.48 | 423.44 | 4.91 | -1.62 | 10.27 | 136.57 |
| 899 | 57.52 | 392.11 | 4.48 | -1.53 | 10.16 | 135.74 |
| 900 | 57.57 | 380.28 | 3.84 | -1.53 | 10.70 | 135.89 |
| 901 | 57.62 | 396.35 | 5.29 | -1.53 | 11.26 | 136.75 |
| 902 | 57.68 | 413.43 | 6.11 | -1.53 | 10.99 | 137.28 |
| 903 | 57.76 | 472.77 | 5.74 | -1.43 | 9.99 | 137.28 |
| 904 | 57.81 | 500.57 | 5.68 | -1.72 | 7.13 | 136.51 |
| 905 | 57.86 | 543.23 | 2.17 | -1.72 | 4.79 | 134.57 |
| 906 | 57.89 | 587.00 | 2.33 | -1.72 | 2.67 | 131.65 |
| 907 | 57.91 | 587.40 | 2.22 | -1.72 | 2.56 | 131.81 |
| 908 | 57.92 | 576.28 | 2.27 | -1.72 | 2.86 | 132.23 |
| 909 | 57.95 | 567.79 | 2.76 | -1.72 | 3.35 | 132.94 |
| 910 | 57.99 | 563.14 | 3.00 | -1.72 | 3.71 | 133.65 |
| 911 | 58.01 | 581.13 | 3.08 | -1.72 | 3.92 | 134.30 |
| 912 | 58.05 | 591.95 | 3.53 | -1.72 | 3.96 | 134.78 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 913 | 58.05 | 600.54 | 3.58 | -1.05 | 4.23 | 135.48 |
| 914 | 58.10 | 604.18 | 4.04 | -1.43 | 4.36 | 135.85 |
| 915 | 58.13 | 609.64 | 4.08 | -1.53 | 4.44 | 136.17 |
| 916 | 58.15 | 619.75 | 4.05 | -1.53 | 4.30 | 136.16 |
| 917 | 58.17 | 626.22 | 3.98 | -1.53 | 4.19 | 136.18 |
| 918 | 58.20 | 629.45 | 4.07 | -1.53 | 4.24 | 136.22 |
| 919 | 58.21 | 614.69 | 4.13 | -1.72 | 4.37 | 136.30 |
| 920 | 58.21 | 614.14 | 4.14 | -1.72 | 4.48 | 136.33 |
| 921 | 58.23 | 614.14 | 4.16 | -1.72 | 4.50 | 136.34 |
| 922 | 58.24 | 613.58 | 4.15 | -1.81 | 4.62 | 136.36 |
| 923 | 58.25 | 596.70 | 4.21 | -1.81 | 3.41 | 134.35 |
| 924 | 58.29 | 617.42 | 1.15 | -1.72 | 2.07 | 131.70 |
| 925 | 58.31 | 627.93 | 1.23 | -1.72 | 0.59 | 127.71 |
| 926 | 58.33 | 636.43 | 1.41 | -1.72 | 0.81 | 129.01 |
| 927 | 58.38 | 652.70 | 1.86 | -1.62 | 1.14 | 130.50 |
| 928 | 58.39 | 665.03 | 2.22 | -1.70 | 1.43 | 131.67 |
| 929 | 58.43 | 667.96 | 2.33 | -1.62 | 1.54 | 132.23 |
| 930 | 58.43 | 678.68 | 2.34 | -1.70 | 1.38 | 132.20 |
| 931 | 58.48 | 701.62 | 2.15 | -1.62 | 1.49 | 132.66 |
| 932 | 58.53 | 683.83 | 2.76 | -1.62 | 1.70 | 133.35 |
| 933 | 58.56 | 697.78 | 3.03 | -1.81 | 2.25 | 134.65 |
| 934 | 58.58 | 707.59 | 3.68 | -1.91 | 2.48 | 135.33 |
| 935 | 58.59 | 707.99 | 3.65 | -1.73 | 2.66 | 135.86 |
| 936 | 58.63 | 717.19 | 3.78 | -1.54 | 2.76 | 135.95 |
| 937 | 58.63 | 696.42 | 3.83 | -1.37 | 2.82 | 136.12 |
| 938 | 58.63 | 714.06 | 3.90 | -1.37 | 2.92 | 135.93 |
| 939 | 58.68 | 675.65 | 3.56 | -1.03 | 2.66 | 135.58 |
| 940 | 58.69 | 710.92 | 3.27 | -1.03 | 2.12 | 134.51 |
| 941 | 58.72 | 719.11 | 2.44 | -1.03 | 1.55 | 133.64 |
| 942 | 58.73 | 723.56 | 2.46 | -0.91 | 1.34 | 133.28 |
| 943 | 58.74 | 726.19 | 2.85 | -0.48 | 1.62 | 134.13 |
| 944 | 58.77 | 736.20 | 3.38 | -0.85 | 2.06 | 135.06 |
| 945 | 58.81 | 718.51 | 3.65 | -0.85 | 2.44 | 135.72 |
| 946 | 58.82 | 713.35 | 3.81 | -0.85 | 2.73 | 136.05 |
| 947 | 58.83 | 710.01 | 3.91 | -0.86 | 2.96 | 136.52 |
| 948 | 58.87 | 724.07 | 4.41 | -0.86 | 3.17 | 137.07 |
| 949 | 58.91 | 732.96 | 4.71 | -0.86 | 3.32 | 137.28 |
| 950 | 58.92 | 738.02 | 4.73 | -0.76 | 3.35 | 137.28 |
| 951 | 58.93 | 742.66 | 4.76 | -0.67 | 3.28 | 137.28 |
| 952 | 58.96 | 740.95 | 4.59 | -0.57 | 3.26 | 137.28 |
| 953 | 59.01 | 733.57 | 4.60 | -0.57 | 3.68 | 137.28 |
| 954 | 59.06 | 674.43 | 5.18 | -1.24 | 4.25 | 137.28 |
| 955 | 59.08 | 653.91 | 5.10 | -1.24 | 4.86 | 137.28 |
| 956 | 59.11 | 637.54 | 4.96 | -1.24 | 5.19 | 137.28 |
| 957 | 59.15 | 625.41 | 5.36 | -1.24 | 5.74 | 137.28 |
| 958 | 59.21 | 618.74 | 6.10 | -1.43 | 6.20 | 137.28 |
| 959 | 59.26 | 610.75 | 5.85 | -0.95 | 6.43 | 137.28 |
| 960 | 59.30 | 588.81 | 5.33 | -0.67 | 6.35 | 137.28 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 961 | 59.35 | 577.39 | 5.07 | -0.67 | 6.33 | 137.28 |
| 962 | 59.40 | 573.45 | 5.09 | -0.67 | 6.60 | 137.28 |
| 963 | 59.42 | 537.46 | 5.10 | -0.62 | 6.81 | 137.28 |
| 964 | 59.47 | 542.01 | 4.94 | -0.62 | 7.03 | 137.28 |
| 965 | 59.51 | 538.58 | 4.99 | -0.62 | 7.10 | 137.28 |
| 966 | 59.56 | 537.67 | 5.28 | -0.48 | 7.14 | 137.28 |
| 967 | 59.61 | 537.67 | 4.95 | -0.48 | 6.86 | 137.10 |
| 968 | 59.67 | 536.76 | 4.21 | -0.48 | 6.15 | 136.33 |
| 969 | 59.71 | 551.52 | 3.80 | -0.29 | 5.22 | 135.39 |
| 970 | 59.80 | 572.94 | 3.30 | -0.29 | 4.51 | 134.34 |
| 971 | 59.85 | 543.02 | 2.68 | -0.10 | 4.17 | 133.65 |
| 972 | 59.90 | 541.41 | 2.94 | 0.00 | 4.17 | 133.27 |
| 973 | 60.00 | 542.21 | 2.91 | 0.29 | 4.27 | 133.47 |
| 974 | 60.04 | 545.35 | 2.91 | 0.19 | 4.40 | 133.64 |
| 975 | 60.10 | 537.57 | 3.16 | 0.19 | 4.95 | 133.98 |
| 976 | 60.15 | 496.63 | 3.43 | 0.19 | 5.55 | 134.23 |
| 977 | 60.19 | 490.76 | 3.36 | 0.19 | 6.05 | 134.17 |
| 978 | 60.23 | 474.79 | 3.20 | 0.19 | 5.92 | 133.82 |
| 979 | 60.28 | 484.90 | 2.99 | 0.29 | 5.71 | 133.46 |
| 980 | 60.33 | 488.14 | 2.90 | 0.29 | 5.51 | 133.41 |
| 981 | 60.38 | 493.90 | 3.10 | 0.29 | 5.65 | 133.73 |
| 982 | 60.42 | 493.85 | 3.38 | 0.29 | 5.89 | 134.17 |
| 983 | 60.44 | 493.80 | 3.46 | 0.29 | 6.33 | 134.53 |
| 984 | 60.47 | 473.88 | 3.65 | 0.38 | 6.98 | 134.97 |
| 985 | 60.52 | 460.13 | 4.12 | 0.48 | 7.63 | 135.40 |
| 986 | 60.56 | 462.56 | 4.23 | 0.38 | 8.01 | 135.74 |
| 987 | 60.57 | 465.39 | 4.25 | 0.38 | 7.98 | 135.80 |
| 988 | 60.61 | 467.11 | 4.21 | 0.38 | 7.76 | 135.74 |
| 989 | 60.66 | 479.34 | 4.08 | 0.38 | 7.57 | 135.77 |
| 990 | 60.71 | 485.41 | 4.24 | 0.38 | 7.40 | 135.90 |
| 991 | 60.76 | 495.21 | 4.35 | 0.48 | 7.47 | 136.31 |
| 992 | 60.81 | 505.12 | 4.72 | 0.67 | 7.48 | 136.65 |
| 993 | 60.86 | 513.91 | 4.79 | 0.76 | 7.09 | 136.81 |
| 994 | 60.91 | 550.10 | 4.48 | 0.95 | 6.19 | 136.86 |
| 995 | 60.95 | 615.30 | 4.50 | 1.05 | 5.45 | 137.13 |
| 996 | 61.00 | 639.05 | 4.99 | 1.24 | 5.05 | 137.28 |
| 997 | 61.02 | 658.56 | 5.11 | 1.72 | 5.00 | 137.28 |
| 998 | 61.05 | 675.54 | 5.33 | 1.72 | 4.74 | 137.28 |
| 999 | 61.08 | 721.13 | 5.51 | 1.62 | 4.50 | 137.28 |
| 1000 | 61.09 | 733.97 | 5.54 | 1.62 | 4.27 | 137.28 |
| 1001 | 61.13 | 740.34 | 5.59 | 1.81 | 4.24 | 137.28 |
| 1002 | 61.14 | 739.43 | 5.66 | 1.91 | 4.28 | 137.28 |
| 1003 | 61.16 | 738.52 | 5.76 | 1.91 | 4.32 | 137.28 |
| 1004 | 61.20 | 746.30 | 5.81 | 1.91 | 4.05 | 137.28 |
| 1005 | 61.23 | 767.73 | 5.15 | 1.91 | 3.75 | 137.28 |
| 1006 | 61.24 | 772.28 | 5.21 | 1.81 | 3.14 | 137.28 |
| 1007 | 61.29 | 760.66 | 3.90 | 1.81 | 2.97 | 137.28 |
| 1008 | 61.30 | 743.57 | 4.26 | 1.72 | 3.09 | 137.25 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1009 | 61.33 | 728.41 | 5.05 | 1.81 | 3.50 | 137.28 |
| 1010 | 61.38 | 731.65 | 4.85 | 2.00 | 3.57 | 137.28 |
| 1011 | 61.43 | 732.56 | 4.32 | 1.81 | 3.24 | 137.17 |
| 1012 | 61.48 | 728.92 | 3.98 | 1.81 | 2.87 | 136.68 |
| 1013 | 61.53 | 753.18 | 3.97 | 1.62 | 2.61 | 136.51 |
| 1014 | 61.56 | 770.56 | 3.96 | 1.72 | 2.53 | 136.46 |
| 1015 | 61.58 | 740.54 | 3.88 | 1.72 | 2.82 | 136.29 |
| 1016 | 61.59 | 669.61 | 3.85 | 1.46 | 3.07 | 136.12 |
| 1017 | 61.62 | 696.97 | 3.82 | 0.67 | 4.53 | 135.66 |
| 1018 | 61.63 | 435.47 | 3.76 | 0.86 | 4.59 | 135.59 |
| 1019 | 61.67 | 653.41 | 3.77 | 1.34 | 4.68 | 135.51 |
| 1020 | 61.71 | 676.15 | 3.74 | 1.43 | 3.52 | 135.82 |
| 1021 | 61.76 | 658.36 | 3.79 | 1.34 | 3.57 | 135.69 |
| 1022 | 61.81 | 631.98 | 3.61 | 1.34 | 3.48 | 134.89 |
| 1023 | 61.86 | 611.66 | 2.70 | 1.53 | 3.19 | 133.76 |
| 1024 | 61.87 | 601.35 | 2.42 | 1.62 | 2.51 | 131.84 |
| 1025 | 61.91 | 589.42 | 1.65 | 1.72 | 2.08 | 130.34 |
| 1026 | 61.95 | 575.78 | 1.49 | 1.72 | 1.72 | 128.91 |
| 1027 | 61.96 | 568.80 | 1.46 | 1.62 | 1.77 | 128.59 |
| 1028 | 62.00 | 555.56 | 1.48 | 1.53 | 2.11 | 128.99 |
| 1029 | 62.04 | 536.66 | 1.77 | 1.43 | 2.73 | 129.80 |
| 1030 | 62.06 | 513.20 | 2.07 | 1.34 | 3.63 | 130.78 |
| 1031 | 62.10 | 482.98 | 2.34 | 1.34 | 4.36 | 131.39 |
| 1032 | 62.14 | 478.73 | 2.39 | 1.34 | 4.98 | 131.79 |
| 1033 | 62.20 | 464.78 | 2.54 | 1.34 | 5.42 | 131.98 |
| 1034 | 62.22 | 445.68 | 2.60 | 1.62 | 6.21 | 132.17 |
| 1035 | 62.27 | 407.07 | 2.72 | 1.43 | 7.02 | 132.25 |
| 1036 | 62.29 | 393.62 | 2.77 | 1.34 | 7.80 | 132.39 |
| 1037 | 62.34 | 388.36 | 2.89 | 1.43 | 8.52 | 132.51 |
| 1038 | 62.39 | 358.75 | 2.98 | 1.24 | 9.48 | 132.97 |
| 1039 | 62.43 | 352.68 | 3.46 | 1.43 | 11.11 | 133.79 |
| 1040 | 62.49 | 331.86 | 4.17 | 1.43 | 12.15 | 134.44 |
| 1041 | 62.57 | 335.80 | 4.05 | 1.43 | 12.81 | 134.86 |
| 1042 | 62.68 | 341.56 | 4.21 | 1.43 | 12.34 | 135.49 |
| 1043 | 62.75 | 394.13 | 5.02 | 1.53 | 11.19 | 136.33 |
| 1044 | 62.87 | 459.02 | 5.12 | 1.62 | 10.57 | 136.91 |
| 1045 | 62.88 | 425.46 | 5.04 | 1.53 | 11.01 | 136.62 |
| 1046 | 62.89 | 343.08 | 4.64 | 0.86 | 9.46 | 135.64 |
| 1047 | 62.93 | 504.41 | 3.12 | 1.53 | 6.80 | 134.88 |
| 1048 | 62.98 | 608.73 | 3.27 | 1.24 | 4.56 | 134.66 |
| 1049 | 63.02 | 602.56 | 3.75 | 1.53 | 2.42 | 132.17 |
| 1050 | 63.07 | 649.36 | 0.00 | 1.53 | 0.48 | 127.73 |
| 1051 | 63.12 | 723.66 | 0.00 | 1.62 | N/A | 87.36 |
| 1052 | 63.14 | 759.24 | 0.00 | 1.62 | N/A | 87.36 |
| 1053 | 63.17 | 774.10 | 0.00 | 1.72 | N/A | 87.36 |
| 1054 | 63.17 | 810.49 | 0.00 | 1.53 | N/A | 87.36 |
| 1055 | 63.20 | 813.42 | 0.00 | 1.53 | N/A | 87.36 |
| 1056 | 63.21 | 853.96 | 0.00 | 1.53 | N/A | 87.36 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1057 | 63.23 | 825.05 | 0.00 | 1.43 | N/A | 87.36 |
| 1058 | 63.26 | 849.66 | 0.00 | 0.99 | N/A | 87.36 |
| 1059 | 63.28 | 829.50 | 0.00 | 0.99 | N/A | 87.36 |
| 1060 | 63.31 | 845.37 | 0.00 | 0.29 | N/A | 87.36 |
| 1061 | 63.32 | 839.40 | 0.00 | 0.48 | N/A | 87.36 |
| 1062 | 63.36 | 833.34 | 0.00 | 0.57 | N/A | 87.36 |
| 1063 | 63.40 | 838.59 | 0.00 | 0.67 | N/A | 87.36 |

**Abbreviations**

| | |
|---|---|
| Depth: | Depth from free surface, at which CPT was performed (ft) |
| $q_c$: | Measured cone resistance (tsf) |
| $f_s$: | Sleeve friction resistance (tsf) |
| u: | Pore pressure (tsf) |
| Fines content: | Percentage of fines in soil (%) |
| Unit weight: | Bulk soil unit weight (pcf) |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data ::**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.01 | 0.00 | 0.00 | 0.00 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 2 | 0.04 | 0.00 | 0.00 | 0.00 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 3 | 0.09 | 0.01 | 0.00 | 0.01 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 4 | 0.11 | 0.01 | 0.00 | 0.01 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 5 | 0.14 | 0.01 | 0.00 | 0.01 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 6 | 0.14 | 0.01 | 0.00 | 0.01 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 7 | 0.18 | 0.01 | 0.00 | 0.01 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 8 | 0.23 | 0.01 | 0.00 | 0.01 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 9 | 0.24 | 0.01 | 0.00 | 0.01 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 10 | 0.28 | 0.02 | 0.00 | 0.02 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 11 | 0.33 | 0.02 | 0.00 | 0.02 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 12 | 0.38 | 0.02 | 0.00 | 0.02 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 13 | 0.42 | 0.02 | 0.00 | 0.02 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 14 | 0.47 | 0.03 | 0.00 | 0.03 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 15 | 0.51 | 0.03 | 0.00 | 0.03 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 16 | 0.52 | 0.03 | 0.00 | 0.03 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 17 | 0.57 | 0.03 | 0.00 | 0.03 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 18 | 0.61 | 0.03 | 0.00 | 0.03 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 19 | 0.67 | 0.04 | 0.00 | 0.04 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 20 | 0.73 | 0.04 | 0.00 | 0.04 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 21 | 0.81 | 0.04 | 0.00 | 0.04 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 22 | 0.86 | 0.05 | 0.00 | 0.05 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 23 | 0.98 | 0.05 | 0.00 | 0.05 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 24 | 1.05 | 0.06 | 0.00 | 0.06 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 25 | 1.15 | 0.06 | 0.00 | 0.06 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 26 | 1.24 | 0.07 | 0.00 | 0.07 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 27 | 1.34 | 0.07 | 0.00 | 0.07 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 28 | 1.43 | 0.08 | 0.00 | 0.08 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 29 | 1.53 | 0.09 | 0.00 | 0.09 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 30 | 1.58 | 0.09 | 0.00 | 0.09 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 31 | 1.62 | 0.09 | 0.00 | 0.09 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 32 | 1.67 | 0.09 | 0.00 | 0.09 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 33 | 1.75 | 0.10 | 0.00 | 0.10 | 1.00 | 0.409 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 34 | 1.77 | 0.10 | 0.00 | 0.10 | 1.00 | 0.409 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 35 | 1.81 | 0.10 | 0.00 | 0.10 | 1.00 | 0.409 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 36 | 1.86 | 0.10 | 0.00 | 0.10 | 1.00 | 0.409 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 37 | 1.91 | 0.11 | 0.00 | 0.11 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 38 | 1.95 | 0.11 | 0.00 | 0.11 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 39 | 2.00 | 0.11 | 0.00 | 0.11 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 40 | 2.05 | 0.11 | 0.00 | 0.11 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | Yes |
| 41 | 2.11 | 0.12 | 0.00 | 0.12 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | Yes |
| 42 | 2.20 | 0.12 | 0.00 | 0.12 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | Yes |
| 43 | 2.24 | 0.12 | 0.00 | 0.12 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | Yes |
| 44 | 2.29 | 0.13 | 0.00 | 0.13 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | Yes |
| 45 | 2.34 | 0.13 | 0.00 | 0.13 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | Yes |
| 46 | 2.44 | 0.13 | 0.00 | 0.13 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | Yes |
| 47 | 2.48 | 0.13 | 0.00 | 0.13 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | Yes |
| 48 | 2.58 | 0.14 | 0.00 | 0.14 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 49 | 2.63 | 0.14 | 0.00 | 0.14 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | Yes |
| 50 | 2.71 | 0.15 | 0.00 | 0.15 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | Yes |
| 51 | 2.78 | 0.15 | 0.00 | 0.15 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | Yes |
| 52 | 2.82 | 0.15 | 0.00 | 0.15 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | Yes |
| 53 | 2.89 | 0.16 | 0.00 | 0.16 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | Yes |
| 54 | 2.96 | 0.16 | 0.00 | 0.16 | 1.00 | 0.407 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 55 | 3.03 | 0.17 | 0.00 | 0.17 | 0.99 | 0.407 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 56 | 3.11 | 0.17 | 0.00 | 0.17 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 57 | 3.19 | 0.17 | 0.00 | 0.17 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 58 | 3.25 | 0.18 | 0.00 | 0.18 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 59 | 3.35 | 0.18 | 0.00 | 0.18 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 60 | 3.41 | 0.19 | 0.00 | 0.19 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 61 | 3.50 | 0.19 | 0.00 | 0.19 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 62 | 3.59 | 0.20 | 0.00 | 0.20 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 63 | 3.69 | 0.20 | 0.00 | 0.20 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 64 | 3.79 | 0.21 | 0.00 | 0.21 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 65 | 3.88 | 0.21 | 0.00 | 0.21 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 66 | 3.97 | 0.22 | 0.00 | 0.22 | 0.99 | 0.406 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 67 | 4.07 | 0.22 | 0.00 | 0.22 | 0.99 | 0.406 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 68 | 4.14 | 0.22 | 0.00 | 0.22 | 0.99 | 0.406 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 69 | 4.17 | 0.23 | 0.00 | 0.23 | 0.99 | 0.406 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 70 | 4.26 | 0.23 | 0.00 | 0.23 | 0.99 | 0.406 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 71 | 4.32 | 0.23 | 0.00 | 0.23 | 0.99 | 0.406 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 72 | 4.37 | 0.24 | 0.00 | 0.24 | 0.99 | 0.406 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 73 | 4.42 | 0.24 | 0.00 | 0.24 | 0.99 | 0.406 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 74 | 4.51 | 0.24 | 0.00 | 0.24 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 75 | 4.61 | 0.25 | 0.00 | 0.25 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 76 | 4.65 | 0.25 | 0.00 | 0.25 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 77 | 4.74 | 0.26 | 0.00 | 0.26 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 78 | 4.80 | 0.26 | 0.00 | 0.26 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 79 | 4.89 | 0.26 | 0.00 | 0.26 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 80 | 4.95 | 0.27 | 0.00 | 0.27 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 81 | 5.04 | 0.27 | 0.00 | 0.27 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 82 | 5.13 | 0.28 | 0.00 | 0.28 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 83 | 5.18 | 0.28 | 0.00 | 0.28 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 84 | 5.28 | 0.29 | 0.00 | 0.29 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 85 | 5.32 | 0.29 | 0.00 | 0.29 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 86 | 5.42 | 0.29 | 0.00 | 0.29 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 87 | 5.51 | 0.30 | 0.00 | 0.30 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 88 | 5.60 | 0.30 | 0.00 | 0.30 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 89 | 5.66 | 0.31 | 0.00 | 0.31 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 90 | 5.76 | 0.31 | 0.00 | 0.31 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 91 | 5.85 | 0.32 | 0.00 | 0.32 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 92 | 5.92 | 0.32 | 0.00 | 0.32 | 0.99 | 0.405 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 93 | 5.95 | 0.32 | 0.00 | 0.32 | 0.99 | 0.405 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 94 | 5.97 | 0.32 | 0.00 | 0.32 | 0.99 | 0.405 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 95 | 6.02 | 0.33 | 0.00 | 0.33 | 0.99 | 0.405 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | Yes |
| 96 | 6.06 | 0.33 | 0.00 | 0.33 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97 | 6.16 | 0.33 | 0.00 | 0.33 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | Yes |
| 98 | 6.21 | 0.34 | 0.00 | 0.34 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | Yes |
| 99 | 6.26 | 0.34 | 0.00 | 0.34 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | Yes |
| 100 | 6.31 | 0.34 | 0.00 | 0.34 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | Yes |
| 101 | 6.40 | 0.35 | 0.00 | 0.35 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | Yes |
| 102 | 6.44 | 0.35 | 0.00 | 0.35 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | Yes |
| 103 | 6.52 | 0.35 | 0.00 | 0.35 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | Yes |
| 104 | 6.57 | 0.36 | 0.00 | 0.36 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | Yes |
| 105 | 6.64 | 0.36 | 0.00 | 0.36 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | Yes |
| 106 | 6.69 | 0.36 | 0.00 | 0.36 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | Yes |
| 107 | 6.78 | 0.37 | 0.00 | 0.37 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | Yes |
| 108 | 6.83 | 0.37 | 0.00 | 0.37 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | Yes |
| 109 | 6.92 | 0.37 | 0.00 | 0.37 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 110 | 6.97 | 0.38 | 0.00 | 0.38 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 111 | 7.03 | 0.38 | 0.00 | 0.38 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 112 | 7.12 | 0.38 | 0.00 | 0.38 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 113 | 7.22 | 0.39 | 0.00 | 0.39 | 0.99 | 0.403 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 114 | 7.27 | 0.39 | 0.00 | 0.39 | 0.99 | 0.403 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 115 | 7.36 | 0.40 | 0.00 | 0.40 | 0.98 | 0.403 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 116 | 7.43 | 0.40 | 0.00 | 0.40 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 117 | 7.50 | 0.41 | 0.00 | 0.41 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 118 | 7.59 | 0.41 | 0.00 | 0.41 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 119 | 7.64 | 0.41 | 0.00 | 0.41 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 120 | 7.75 | 0.42 | 0.00 | 0.42 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 121 | 7.79 | 0.42 | 0.00 | 0.42 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 122 | 7.89 | 0.43 | 0.00 | 0.43 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 123 | 7.99 | 0.43 | 0.00 | 0.43 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 124 | 8.04 | 0.43 | 0.00 | 0.43 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 125 | 8.13 | 0.44 | 0.00 | 0.44 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 126 | 8.23 | 0.44 | 0.00 | 0.44 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 127 | 8.32 | 0.45 | 0.00 | 0.45 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 128 | 8.37 | 0.45 | 0.00 | 0.45 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 129 | 8.46 | 0.46 | 0.00 | 0.46 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 130 | 8.56 | 0.46 | 0.00 | 0.46 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 131 | 8.59 | 0.46 | 0.00 | 0.46 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 132 | 8.61 | 0.47 | 0.00 | 0.47 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 133 | 8.67 | 0.47 | 0.00 | 0.47 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 134 | 8.71 | 0.47 | 0.00 | 0.47 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 135 | 8.72 | 0.47 | 0.00 | 0.47 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 136 | 8.78 | 0.47 | 0.00 | 0.47 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 137 | 8.80 | 0.48 | 0.00 | 0.48 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 138 | 8.86 | 0.48 | 0.00 | 0.48 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 139 | 8.90 | 0.48 | 0.00 | 0.48 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 140 | 8.95 | 0.48 | 0.00 | 0.48 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 141 | 8.96 | 0.48 | 0.00 | 0.48 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 142 | 9.00 | 0.49 | 0.00 | 0.49 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 143 | 9.05 | 0.49 | 0.00 | 0.49 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 144 | 9.09 | 0.49 | 0.00 | 0.49 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 145 | 9.10 | 0.49 | 0.00 | 0.49 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 146 | 9.14 | 0.49 | 0.00 | 0.49 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 147 | 9.20 | 0.50 | 0.00 | 0.50 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 148 | 9.24 | 0.50 | 0.00 | 0.50 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 149 | 9.29 | 0.50 | 0.00 | 0.50 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 150 | 9.31 | 0.50 | 0.00 | 0.50 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 151 | 9.38 | 0.51 | 0.00 | 0.51 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | Yes |
| 152 | 9.41 | 0.51 | 0.00 | 0.51 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | Yes |
| 153 | 9.47 | 0.51 | 0.00 | 0.51 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | Yes |
| 154 | 9.53 | 0.52 | 0.00 | 0.52 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | Yes |
| 155 | 9.62 | 0.52 | 0.00 | 0.52 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | Yes |
| 156 | 9.67 | 0.52 | 0.00 | 0.52 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | Yes |
| 157 | 9.77 | 0.53 | 0.00 | 0.53 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | Yes |
| 158 | 9.81 | 0.53 | 0.00 | 0.53 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | Yes |
| 159 | 9.90 | 0.54 | 0.00 | 0.54 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | Yes |
| 160 | 9.97 | 0.54 | 0.00 | 0.54 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | Yes |
| 161 | 10.06 | 0.55 | 0.00 | 0.55 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 162 | 10.20 | 0.55 | 0.00 | 0.55 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | Yes |
| 163 | 10.30 | 0.56 | 0.00 | 0.56 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | Yes |
| 164 | 10.44 | 0.57 | 0.00 | 0.57 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | Yes |
| 165 | 10.54 | 0.57 | 0.00 | 0.57 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | Yes |
| 166 | 10.63 | 0.58 | 0.00 | 0.58 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | Yes |
| 167 | 10.74 | 0.58 | 0.00 | 0.58 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | Yes |
| 168 | 10.78 | 0.59 | 0.00 | 0.59 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | Yes |
| 169 | 10.83 | 0.59 | 0.00 | 0.59 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | Yes |
| 170 | 10.88 | 0.59 | 0.00 | 0.59 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | Yes |
| 171 | 10.89 | 0.59 | 0.00 | 0.59 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | Yes |
| 172 | 10.97 | 0.60 | 0.00 | 0.60 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 173 | 11.02 | 0.60 | 0.00 | 0.60 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 174 | 11.07 | 0.60 | 0.00 | 0.60 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 175 | 11.11 | 0.60 | 0.00 | 0.60 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 176 | 11.16 | 0.61 | 0.00 | 0.61 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 177 | 11.21 | 0.61 | 0.00 | 0.61 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 178 | 11.26 | 0.61 | 0.00 | 0.61 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 179 | 11.30 | 0.62 | 0.00 | 0.62 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 180 | 11.36 | 0.62 | 0.00 | 0.62 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 181 | 11.40 | 0.62 | 0.00 | 0.62 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 182 | 11.45 | 0.62 | 0.00 | 0.62 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 183 | 11.50 | 0.63 | 0.00 | 0.63 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 184 | 11.55 | 0.63 | 0.00 | 0.63 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 185 | 11.60 | 0.63 | 0.00 | 0.63 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 186 | 11.66 | 0.64 | 0.00 | 0.64 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 187 | 11.74 | 0.64 | 0.00 | 0.64 | 0.98 | 0.399 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 188 | 11.84 | 0.65 | 0.00 | 0.65 | 0.98 | 0.399 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 189 | 11.93 | 0.65 | 0.00 | 0.65 | 0.98 | 0.399 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 190 | 12.04 | 0.66 | 0.00 | 0.66 | 0.97 | 0.399 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 191 | 12.13 | 0.66 | 0.00 | 0.66 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 192 | 12.22 | 0.67 | 0.00 | 0.67 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 193 | 12.27 | 0.67 | 0.00 | 0.67 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 194 | 12.37 | 0.68 | 0.00 | 0.68 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 195 | 12.41 | 0.68 | 0.00 | 0.68 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 196 | 12.51 | 0.69 | 0.00 | 0.69 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 197 | 12.56 | 0.69 | 0.00 | 0.69 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 198 | 12.65 | 0.69 | 0.00 | 0.69 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 199 | 12.71 | 0.70 | 0.00 | 0.70 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 200 | 12.79 | 0.70 | 0.00 | 0.70 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 201 | 12.89 | 0.71 | 0.00 | 0.71 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 202 | 12.96 | 0.71 | 0.00 | 0.71 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 203 | 13.04 | 0.72 | 0.00 | 0.72 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | Yes |
| 204 | 13.13 | 0.72 | 0.00 | 0.72 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | Yes |
| 205 | 13.23 | 0.73 | 0.00 | 0.73 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | Yes |
| 206 | 13.30 | 0.73 | 0.00 | 0.73 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | Yes |
| 207 | 13.37 | 0.74 | 0.00 | 0.74 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | Yes |
| 208 | 13.47 | 0.74 | 0.00 | 0.74 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | Yes |
| 209 | 13.57 | 0.75 | 0.00 | 0.75 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 210 | 13.61 | 0.75 | 0.00 | 0.75 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 211 | 13.62 | 0.75 | 0.00 | 0.75 | 0.97 | 0.398 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 212 | 13.68 | 0.75 | 0.00 | 0.75 | 0.97 | 0.398 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 213 | 13.73 | 0.76 | 0.00 | 0.76 | 0.97 | 0.398 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 214 | 13.77 | 0.76 | 0.00 | 0.76 | 0.97 | 0.398 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 215 | 13.87 | 0.77 | 0.00 | 0.77 | 0.97 | 0.398 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 216 | 13.93 | 0.77 | 0.00 | 0.77 | 0.97 | 0.398 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 217 | 14.00 | 0.77 | 0.00 | 0.77 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 218 | 14.06 | 0.78 | 0.00 | 0.78 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 219 | 14.12 | 0.78 | 0.00 | 0.78 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 220 | 14.21 | 0.79 | 0.00 | 0.79 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 221 | 14.25 | 0.79 | 0.00 | 0.79 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 222 | 14.35 | 0.79 | 0.00 | 0.79 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 223 | 14.45 | 0.80 | 0.00 | 0.80 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 224 | 14.50 | 0.80 | 0.00 | 0.80 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 225 | 14.59 | 0.81 | 0.00 | 0.81 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 226 | 14.64 | 0.81 | 0.00 | 0.81 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 227 | 14.74 | 0.82 | 0.00 | 0.82 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 228 | 14.80 | 0.82 | 0.00 | 0.82 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 229 | 14.88 | 0.83 | 0.00 | 0.83 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 230 | 14.97 | 0.83 | 0.00 | 0.83 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 231 | 15.05 | 0.84 | 0.00 | 0.84 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 232 | 15.13 | 0.84 | 0.00 | 0.84 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 233 | 15.21 | 0.85 | 0.00 | 0.85 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 234 | 15.28 | 0.85 | 0.00 | 0.85 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 235 | 15.36 | 0.86 | 0.00 | 0.86 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 236 | 15.41 | 0.86 | 0.00 | 0.86 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 237 | 15.50 | 0.86 | 0.00 | 0.86 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 238 | 15.55 | 0.87 | 0.00 | 0.87 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 239 | 15.65 | 0.87 | 0.00 | 0.87 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 240 | 15.71 | 0.88 | 0.00 | 0.88 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 241 | 15.79 | 0.88 | 0.00 | 0.88 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 242 | 15.89 | 0.89 | 0.00 | 0.89 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 243 | 15.90 | 0.89 | 0.00 | 0.89 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 244 | 15.94 | 0.89 | 0.00 | 0.89 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 245 | 16.00 | 0.89 | 0.00 | 0.89 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 246 | 16.06 | 0.90 | 0.00 | 0.90 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 247 | 16.14 | 0.90 | 0.00 | 0.90 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 248 | 16.19 | 0.90 | 0.00 | 0.90 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 249 | 16.26 | 0.91 | 0.00 | 0.91 | 0.97 | 0.395 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 250 | 16.33 | 0.91 | 0.00 | 0.91 | 0.97 | 0.395 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 251 | 16.38 | 0.91 | 0.00 | 0.91 | 0.97 | 0.395 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 252 | 16.47 | 0.92 | 0.00 | 0.92 | 0.97 | 0.395 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 253 | 16.54 | 0.92 | 0.00 | 0.92 | 0.97 | 0.395 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 254 | 16.62 | 0.93 | 0.00 | 0.93 | 0.97 | 0.395 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 255 | 16.70 | 0.93 | 0.00 | 0.93 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 256 | 16.76 | 0.94 | 0.00 | 0.94 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 257 | 16.86 | 0.94 | 0.00 | 0.94 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | Yes |
| 258 | 16.90 | 0.94 | 0.00 | 0.94 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | Yes |
| 259 | 16.98 | 0.95 | 0.00 | 0.95 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | Yes |
| 260 | 17.05 | 0.95 | 0.00 | 0.95 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | Yes |
| 261 | 17.14 | 0.96 | 0.00 | 0.96 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | Yes |
| 262 | 17.20 | 0.96 | 0.00 | 0.96 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | Yes |
| 263 | 17.29 | 0.97 | 0.00 | 0.97 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | Yes |
| 264 | 17.34 | 0.97 | 0.00 | 0.97 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | Yes |
| 265 | 17.44 | 0.98 | 0.00 | 0.98 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 266 | 17.50 | 0.98 | 0.00 | 0.98 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 267 | 17.58 | 0.98 | 0.00 | 0.98 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 268 | 17.64 | 0.99 | 0.00 | 0.99 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 269 | 17.75 | 0.99 | 0.00 | 0.99 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 270 | 17.82 | 1.00 | 0.00 | 1.00 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 271 | 17.89 | 1.00 | 0.00 | 1.00 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 272 | 17.89 | 1.00 | 0.00 | 1.00 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 273 | 17.96 | 1.01 | 0.00 | 1.01 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 274 | 18.02 | 1.01 | 0.00 | 1.01 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 275 | 18.07 | 1.01 | 0.00 | 1.01 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 276 | 18.17 | 1.02 | 0.00 | 1.02 | 0.96 | 0.394 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 277 | 18.22 | 1.02 | 0.00 | 1.02 | 0.96 | 0.394 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | Yes |
| 278 | 18.30 | 1.03 | 0.00 | 1.03 | 0.96 | 0.394 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | Yes |
| 279 | 18.36 | 1.03 | 0.00 | 1.03 | 0.96 | 0.394 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | Yes |
| 280 | 18.42 | 1.03 | 0.00 | 1.03 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | Yes |
| 281 | 18.50 | 1.04 | 0.00 | 1.04 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | Yes |
| 282 | 18.56 | 1.04 | 0.00 | 1.04 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | Yes |
| 283 | 18.62 | 1.05 | 0.00 | 1.05 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | Yes |
| 284 | 18.69 | 1.05 | 0.00 | 1.05 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | Yes |
| 285 | 18.76 | 1.05 | 0.00 | 1.05 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | Yes |
| 286 | 18.84 | 1.06 | 0.00 | 1.06 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | Yes |
| 287 | 18.89 | 1.06 | 0.00 | 1.06 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | Yes |
| 288 | 18.98 | 1.07 | 0.00 | 1.07 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 289 | 19.05 | 1.07 | 0.00 | 1.07 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | Yes |
| 290 | 19.12 | 1.08 | 0.00 | 1.08 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | Yes |
| 291 | 19.18 | 1.08 | 0.00 | 1.08 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | Yes |
| 292 | 19.24 | 1.08 | 0.00 | 1.08 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | Yes |
| 293 | 19.32 | 1.09 | 0.00 | 1.09 | 0.96 | 0.393 | 1.36 | 0.289 | 0.99 | 1.00 | 2.000 | No |
| 294 | 19.38 | 1.09 | 0.00 | 1.09 | 0.96 | 0.392 | 1.36 | 0.289 | 0.99 | 1.00 | 2.000 | No |
| 295 | 19.46 | 1.10 | 0.00 | 1.10 | 0.96 | 0.392 | 1.36 | 0.289 | 0.99 | 1.00 | 2.000 | No |
| 296 | 19.54 | 1.10 | 0.00 | 1.10 | 0.96 | 0.392 | 1.36 | 0.288 | 0.99 | 1.00 | 2.000 | No |
| 297 | 19.62 | 1.11 | 0.00 | 1.11 | 0.96 | 0.392 | 1.36 | 0.288 | 0.99 | 1.00 | 2.000 | No |
| 298 | 19.70 | 1.11 | 0.00 | 1.11 | 0.96 | 0.392 | 1.36 | 0.288 | 0.99 | 1.00 | 2.000 | No |
| 299 | 19.80 | 1.12 | 0.00 | 1.12 | 0.96 | 0.392 | 1.36 | 0.288 | 0.99 | 1.00 | 2.000 | No |
| 300 | 19.85 | 1.12 | 0.00 | 1.12 | 0.96 | 0.392 | 1.36 | 0.288 | 0.99 | 1.00 | 2.000 | No |
| 301 | 19.94 | 1.13 | 0.00 | 1.13 | 0.96 | 0.392 | 1.36 | 0.288 | 0.99 | 1.00 | 2.000 | No |
| 302 | 20.03 | 1.13 | 0.00 | 1.13 | 0.96 | 0.392 | 1.36 | 0.288 | 0.99 | 1.00 | 2.000 | No |
| 303 | 20.13 | 1.14 | 0.00 | 1.14 | 0.96 | 0.392 | 1.36 | 0.288 | 0.99 | 1.00 | 2.000 | No |
| 304 | 20.19 | 1.14 | 0.00 | 1.14 | 0.96 | 0.392 | 1.36 | 0.288 | 0.98 | 1.00 | 2.000 | No |
| 305 | 20.29 | 1.15 | 0.00 | 1.15 | 0.96 | 0.392 | 1.36 | 0.288 | 0.98 | 1.00 | 2.000 | No |
| 306 | 20.39 | 1.16 | 0.00 | 1.16 | 0.96 | 0.391 | 1.36 | 0.288 | 0.98 | 1.00 | 2.000 | No |
| 307 | 20.43 | 1.16 | 0.00 | 1.16 | 0.96 | 0.391 | 1.36 | 0.288 | 0.98 | 1.00 | 2.000 | No |
| 308 | 20.47 | 1.16 | 0.00 | 1.16 | 0.96 | 0.391 | 1.36 | 0.288 | 0.98 | 1.00 | 2.000 | No |
| 309 | 20.52 | 1.16 | 0.00 | 1.16 | 0.96 | 0.391 | 1.36 | 0.288 | 0.98 | 1.00 | 2.000 | No |
| 310 | 20.61 | 1.17 | 0.00 | 1.17 | 0.96 | 0.391 | 1.36 | 0.288 | 0.98 | 1.00 | 2.000 | No |
| 311 | 20.66 | 1.17 | 0.00 | 1.17 | 0.96 | 0.391 | 1.36 | 0.288 | 0.98 | 1.00 | 2.000 | No |
| 312 | 20.71 | 1.18 | 0.00 | 1.18 | 0.96 | 0.391 | 1.36 | 0.288 | 0.98 | 1.00 | 2.000 | No |
| 313 | 20.77 | 1.18 | 0.00 | 1.18 | 0.95 | 0.391 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | No |
| 314 | 20.85 | 1.18 | 0.00 | 1.18 | 0.95 | 0.391 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | No |
| 315 | 20.91 | 1.19 | 0.00 | 1.19 | 0.95 | 0.391 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | No |
| 316 | 21.00 | 1.19 | 0.00 | 1.19 | 0.95 | 0.391 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | No |
| 317 | 21.05 | 1.20 | 0.00 | 1.20 | 0.95 | 0.391 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | No |
| 318 | 21.11 | 1.20 | 0.00 | 1.20 | 0.95 | 0.391 | 1.36 | 0.287 | 0.97 | 1.00 | 2.000 | No |
| 319 | 21.19 | 1.21 | 0.00 | 1.21 | 0.95 | 0.391 | 1.36 | 0.287 | 0.97 | 1.00 | 2.000 | No |
| 320 | 21.24 | 1.21 | 0.00 | 1.21 | 0.95 | 0.390 | 1.36 | 0.287 | 0.97 | 1.00 | 2.000 | No |
| 321 | 21.34 | 1.22 | 0.00 | 1.22 | 0.95 | 0.390 | 1.36 | 0.287 | 0.97 | 1.00 | 2.000 | No |
| 322 | 21.39 | 1.22 | 0.00 | 1.22 | 0.95 | 0.390 | 1.36 | 0.287 | 0.97 | 1.00 | 2.000 | No |
| 323 | 21.48 | 1.22 | 0.00 | 1.22 | 0.95 | 0.390 | 1.36 | 0.287 | 0.97 | 1.00 | 2.000 | No |
| 324 | 21.53 | 1.23 | 0.00 | 1.23 | 0.95 | 0.390 | 1.36 | 0.287 | 0.97 | 1.00 | 2.000 | No |
| 325 | 21.64 | 1.23 | 0.00 | 1.23 | 0.95 | 0.390 | 1.36 | 0.287 | 0.97 | 1.00 | 2.000 | No |
| 326 | 21.72 | 1.24 | 0.00 | 1.24 | 0.95 | 0.390 | 1.36 | 0.287 | 0.97 | 1.00 | 2.000 | No |
| 327 | 21.81 | 1.24 | 0.00 | 1.24 | 0.95 | 0.390 | 1.36 | 0.287 | 0.97 | 1.00 | 2.000 | No |
| 328 | 21.89 | 1.25 | 0.00 | 1.25 | 0.95 | 0.390 | 1.36 | 0.287 | 0.97 | 1.00 | 2.000 | No |
| 329 | 21.97 | 1.25 | 0.00 | 1.25 | 0.95 | 0.390 | 1.36 | 0.286 | 0.97 | 1.00 | 2.000 | No |
| 330 | 22.05 | 1.26 | 0.00 | 1.26 | 0.95 | 0.390 | 1.36 | 0.286 | 0.97 | 1.00 | 2.000 | No |
| 331 | 22.12 | 1.26 | 0.00 | 1.26 | 0.95 | 0.389 | 1.36 | 0.286 | 0.97 | 1.00 | 2.000 | No |
| 332 | 22.13 | 1.26 | 0.00 | 1.26 | 0.95 | 0.389 | 1.36 | 0.286 | 0.97 | 1.00 | 2.000 | No |
| 333 | 22.18 | 1.27 | 0.00 | 1.27 | 0.95 | 0.389 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 334 | 22.22 | 1.27 | 0.00 | 1.27 | 0.95 | 0.389 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 335 | 22.28 | 1.27 | 0.00 | 1.27 | 0.95 | 0.389 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 336 | 22.33 | 1.28 | 0.00 | 1.28 | 0.95 | 0.389 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 337 | 22.38 | 1.28 | 0.00 | 1.28 | 0.95 | 0.389 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 338 | 22.41 | 1.28 | 0.00 | 1.28 | 0.95 | 0.389 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 339 | 22.51 | 1.29 | 0.00 | 1.29 | 0.95 | 0.389 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 340 | 22.56 | 1.29 | 0.00 | 1.29 | 0.95 | 0.389 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 341 | 22.61 | 1.29 | 0.00 | 1.29 | 0.95 | 0.389 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 342 | 22.65 | 1.30 | 0.00 | 1.30 | 0.95 | 0.389 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 343 | 22.71 | 1.30 | 0.00 | 1.30 | 0.95 | 0.389 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 344 | 22.76 | 1.30 | 0.00 | 1.30 | 0.95 | 0.389 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 345 | 22.85 | 1.31 | 0.00 | 1.31 | 0.95 | 0.389 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 346 | 22.89 | 1.31 | 0.00 | 1.31 | 0.95 | 0.389 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 347 | 22.99 | 1.32 | 0.00 | 1.32 | 0.95 | 0.388 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 348 | 23.04 | 1.32 | 0.00 | 1.32 | 0.95 | 0.388 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 349 | 23.12 | 1.33 | 0.00 | 1.33 | 0.95 | 0.388 | 1.36 | 0.285 | 0.96 | 1.00 | 2.000 | No |
| 350 | 23.18 | 1.33 | 0.00 | 1.33 | 0.95 | 0.388 | 1.36 | 0.285 | 0.96 | 1.00 | 2.000 | No |
| 351 | 23.24 | 1.33 | 0.00 | 1.33 | 0.95 | 0.388 | 1.36 | 0.285 | 0.95 | 1.00 | 2.000 | No |
| 352 | 23.33 | 1.34 | 0.00 | 1.34 | 0.95 | 0.388 | 1.36 | 0.285 | 0.95 | 1.00 | 2.000 | No |
| 353 | 23.38 | 1.34 | 0.00 | 1.34 | 0.95 | 0.388 | 1.36 | 0.285 | 0.95 | 1.00 | 2.000 | No |
| 354 | 23.47 | 1.35 | 0.00 | 1.35 | 0.95 | 0.388 | 1.36 | 0.285 | 0.95 | 1.00 | 2.000 | No |
| 355 | 23.52 | 1.35 | 0.00 | 1.35 | 0.95 | 0.388 | 1.36 | 0.285 | 0.95 | 1.00 | 2.000 | No |
| 356 | 23.61 | 1.36 | 0.00 | 1.36 | 0.95 | 0.388 | 1.36 | 0.285 | 0.95 | 1.00 | 2.000 | No |
| 357 | 23.68 | 1.36 | 0.00 | 1.36 | 0.95 | 0.388 | 1.36 | 0.285 | 0.95 | 1.00 | 2.000 | No |
| 358 | 23.76 | 1.36 | 0.00 | 1.36 | 0.95 | 0.387 | 1.36 | 0.285 | 0.95 | 1.00 | 2.000 | No |
| 359 | 23.83 | 1.37 | 0.00 | 1.37 | 0.95 | 0.387 | 1.36 | 0.285 | 0.95 | 1.00 | 2.000 | No |
| 360 | 23.90 | 1.37 | 0.00 | 1.37 | 0.95 | 0.387 | 1.36 | 0.285 | 0.95 | 1.00 | 2.000 | No |
| 361 | 23.97 | 1.38 | 0.00 | 1.38 | 0.95 | 0.387 | 1.36 | 0.285 | 0.95 | 1.00 | 2.000 | No |
| 362 | 24.05 | 1.38 | 0.00 | 1.38 | 0.95 | 0.387 | 1.36 | 0.285 | 0.95 | 1.00 | 2.000 | No |
| 363 | 24.10 | 1.39 | 0.00 | 1.39 | 0.94 | 0.387 | 1.36 | 0.284 | 0.95 | 1.00 | 2.000 | No |
| 364 | 24.19 | 1.39 | 0.00 | 1.39 | 0.94 | 0.387 | 1.36 | 0.284 | 0.95 | 1.00 | 2.000 | No |
| 365 | 24.27 | 1.40 | 0.00 | 1.40 | 0.94 | 0.387 | 1.36 | 0.284 | 0.95 | 1.00 | 2.000 | No |
| 366 | 24.34 | 1.40 | 0.00 | 1.40 | 0.94 | 0.387 | 1.36 | 0.284 | 0.95 | 1.00 | 2.000 | No |
| 367 | 24.43 | 1.41 | 0.00 | 1.41 | 0.94 | 0.386 | 1.36 | 0.284 | 0.94 | 1.00 | 2.000 | No |
| 368 | 24.48 | 1.41 | 0.00 | 1.41 | 0.94 | 0.386 | 1.36 | 0.284 | 0.94 | 1.00 | 2.000 | No |
| 369 | 24.57 | 1.41 | 0.00 | 1.41 | 0.94 | 0.386 | 1.36 | 0.284 | 0.94 | 1.00 | 2.000 | No |
| 370 | 24.62 | 1.42 | 0.00 | 1.42 | 0.94 | 0.386 | 1.36 | 0.284 | 0.94 | 1.00 | 2.000 | No |
| 371 | 24.72 | 1.42 | 0.00 | 1.42 | 0.94 | 0.386 | 1.36 | 0.284 | 0.94 | 1.00 | 2.000 | No |
| 372 | 24.81 | 1.43 | 0.00 | 1.43 | 0.94 | 0.386 | 1.36 | 0.284 | 0.94 | 1.00 | 2.000 | No |
| 373 | 24.86 | 1.43 | 0.00 | 1.43 | 0.94 | 0.386 | 1.36 | 0.284 | 0.94 | 1.00 | 2.000 | No |
| 374 | 24.95 | 1.44 | 0.00 | 1.44 | 0.94 | 0.386 | 1.36 | 0.284 | 0.94 | 1.00 | 2.000 | No |
| 375 | 25.01 | 1.44 | 0.00 | 1.44 | 0.94 | 0.386 | 1.36 | 0.284 | 0.94 | 1.00 | 2.000 | No |
| 376 | 25.02 | 1.44 | 0.00 | 1.44 | 0.94 | 0.386 | 1.36 | 0.284 | 0.94 | 1.00 | 2.000 | No |
| 377 | 25.05 | 1.44 | 0.00 | 1.44 | 0.94 | 0.386 | 1.36 | 0.284 | 0.94 | 1.00 | 2.000 | No |
| 378 | 25.11 | 1.45 | 0.00 | 1.45 | 0.94 | 0.386 | 1.36 | 0.283 | 0.94 | 1.00 | 2.000 | No |
| 379 | 25.15 | 1.45 | 0.00 | 1.45 | 0.94 | 0.385 | 1.36 | 0.283 | 0.94 | 1.00 | 2.000 | No |
| 380 | 25.21 | 1.45 | 0.00 | 1.45 | 0.94 | 0.385 | 1.36 | 0.283 | 0.94 | 1.00 | 2.000 | No |
| 381 | 25.25 | 1.46 | 0.00 | 1.46 | 0.94 | 0.385 | 1.36 | 0.283 | 0.94 | 1.00 | 2.000 | No |
| 382 | 25.30 | 1.46 | 0.00 | 1.46 | 0.94 | 0.385 | 1.36 | 0.283 | 0.94 | 1.00 | 2.000 | No |
| 383 | 25.40 | 1.47 | 0.00 | 1.47 | 0.94 | 0.385 | 1.36 | 0.283 | 0.94 | 1.00 | 2.000 | No |
| 384 | 25.45 | 1.47 | 0.00 | 1.47 | 0.94 | 0.385 | 1.36 | 0.283 | 0.94 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 385 | 25.52 | 1.47 | 0.00 | 1.47 | 0.94 | 0.385 | 1.36 | 0.283 | 0.94 | 1.00 | 2.000 | Yes |
| 386 | 25.60 | 1.48 | 0.00 | 1.48 | 0.94 | 0.385 | 1.36 | 0.283 | 0.94 | 1.00 | 2.000 | Yes |
| 387 | 25.66 | 1.48 | 0.00 | 1.48 | 0.94 | 0.385 | 1.36 | 0.283 | 0.93 | 1.00 | 2.000 | Yes |
| 388 | 25.74 | 1.49 | 0.00 | 1.49 | 0.94 | 0.385 | 1.36 | 0.283 | 0.93 | 1.00 | 2.000 | Yes |
| 389 | 25.80 | 1.49 | 0.00 | 1.49 | 0.94 | 0.384 | 1.36 | 0.283 | 0.93 | 1.00 | 2.000 | Yes |
| 390 | 25.88 | 1.49 | 0.00 | 1.49 | 0.94 | 0.384 | 1.36 | 0.283 | 0.93 | 1.00 | 2.000 | Yes |
| 391 | 25.94 | 1.50 | 0.00 | 1.50 | 0.94 | 0.384 | 1.36 | 0.283 | 0.93 | 1.00 | 2.000 | Yes |
| 392 | 26.02 | 1.50 | 0.00 | 1.50 | 0.94 | 0.384 | 1.36 | 0.282 | 0.93 | 1.00 | 2.000 | Yes |
| 393 | 26.09 | 1.51 | 0.00 | 1.51 | 0.94 | 0.384 | 1.36 | 0.282 | 0.93 | 1.00 | 2.000 | No |
| 394 | 26.17 | 1.51 | 0.00 | 1.51 | 0.94 | 0.384 | 1.36 | 0.282 | 0.93 | 1.00 | 2.000 | No |
| 395 | 26.23 | 1.52 | 0.00 | 1.52 | 0.94 | 0.384 | 1.36 | 0.282 | 0.93 | 1.00 | 2.000 | No |
| 396 | 26.29 | 1.52 | 0.00 | 1.52 | 0.94 | 0.384 | 1.36 | 0.282 | 0.93 | 1.00 | 2.000 | No |
| 397 | 26.37 | 1.52 | 0.00 | 1.52 | 0.94 | 0.384 | 1.36 | 0.282 | 0.93 | 1.00 | 2.000 | No |
| 398 | 26.46 | 1.53 | 0.00 | 1.53 | 0.94 | 0.383 | 1.36 | 0.282 | 0.93 | 1.00 | 2.000 | No |
| 399 | 26.55 | 1.53 | 0.00 | 1.53 | 0.94 | 0.383 | 1.36 | 0.282 | 0.93 | 1.00 | 2.000 | No |
| 400 | 26.60 | 1.54 | 0.00 | 1.54 | 0.94 | 0.383 | 1.36 | 0.282 | 0.93 | 1.00 | 2.000 | No |
| 401 | 26.70 | 1.54 | 0.00 | 1.54 | 0.94 | 0.383 | 1.36 | 0.282 | 0.93 | 1.00 | 2.000 | No |
| 402 | 26.78 | 1.55 | 0.00 | 1.55 | 0.94 | 0.383 | 1.36 | 0.282 | 0.93 | 1.00 | 2.000 | No |
| 403 | 26.87 | 1.55 | 0.00 | 1.55 | 0.93 | 0.383 | 1.36 | 0.281 | 0.93 | 1.00 | 2.000 | No |
| 404 | 26.94 | 1.56 | 0.00 | 1.56 | 0.93 | 0.383 | 1.36 | 0.281 | 0.93 | 1.00 | 2.000 | No |
| 405 | 27.03 | 1.56 | 0.00 | 1.56 | 0.93 | 0.383 | 1.36 | 0.281 | 0.93 | 1.00 | 2.000 | No |
| 406 | 27.13 | 1.57 | 0.00 | 1.57 | 0.93 | 0.382 | 1.36 | 0.281 | 0.92 | 1.00 | 2.000 | No |
| 407 | 27.18 | 1.57 | 0.00 | 1.57 | 0.93 | 0.382 | 1.36 | 0.281 | 0.92 | 1.00 | 2.000 | No |
| 408 | 27.27 | 1.58 | 0.00 | 1.58 | 0.93 | 0.382 | 1.36 | 0.281 | 0.92 | 1.00 | 2.000 | No |
| 409 | 27.32 | 1.58 | 0.00 | 1.58 | 0.93 | 0.382 | 1.36 | 0.281 | 0.92 | 1.00 | 2.000 | No |
| 410 | 27.37 | 1.58 | 0.00 | 1.58 | 0.93 | 0.382 | 1.36 | 0.281 | 0.92 | 1.00 | 2.000 | No |
| 411 | 27.41 | 1.58 | 0.00 | 1.58 | 0.93 | 0.382 | 1.36 | 0.281 | 0.92 | 1.00 | 2.000 | No |
| 412 | 27.46 | 1.59 | 0.00 | 1.59 | 0.93 | 0.382 | 1.36 | 0.281 | 0.92 | 1.00 | 2.000 | No |
| 413 | 27.51 | 1.59 | 0.00 | 1.59 | 0.93 | 0.382 | 1.36 | 0.281 | 0.92 | 1.00 | 2.000 | No |
| 414 | 27.61 | 1.59 | 0.00 | 1.59 | 0.93 | 0.382 | 1.36 | 0.281 | 0.92 | 1.00 | 2.000 | No |
| 415 | 27.66 | 1.60 | 0.00 | 1.60 | 0.93 | 0.381 | 1.36 | 0.280 | 0.92 | 1.00 | 2.000 | No |
| 416 | 27.73 | 1.60 | 0.00 | 1.60 | 0.93 | 0.381 | 1.36 | 0.280 | 0.92 | 1.00 | 2.000 | No |
| 417 | 27.80 | 1.61 | 0.00 | 1.61 | 0.93 | 0.381 | 1.36 | 0.280 | 0.92 | 1.00 | 2.000 | No |
| 418 | 27.88 | 1.61 | 0.00 | 1.61 | 0.93 | 0.381 | 1.36 | 0.280 | 0.92 | 1.00 | 2.000 | No |
| 419 | 27.96 | 1.62 | 0.00 | 1.62 | 0.93 | 0.381 | 1.36 | 0.280 | 0.92 | 1.00 | 2.000 | No |
| 420 | 28.04 | 1.62 | 0.00 | 1.62 | 0.93 | 0.381 | 1.36 | 0.280 | 0.92 | 1.00 | 2.000 | No |
| 421 | 28.12 | 1.63 | 0.00 | 1.63 | 0.93 | 0.381 | 1.36 | 0.280 | 0.92 | 1.00 | 2.000 | No |
| 422 | 28.18 | 1.63 | 0.00 | 1.63 | 0.93 | 0.381 | 1.36 | 0.280 | 0.92 | 1.00 | 2.000 | No |
| 423 | 28.27 | 1.64 | 0.00 | 1.64 | 0.93 | 0.380 | 1.36 | 0.280 | 0.92 | 1.00 | 2.000 | No |
| 424 | 28.32 | 1.64 | 0.00 | 1.64 | 0.93 | 0.380 | 1.36 | 0.280 | 0.92 | 1.00 | 2.000 | No |
| 425 | 28.42 | 1.64 | 0.00 | 1.64 | 0.93 | 0.380 | 1.36 | 0.279 | 0.92 | 1.00 | 2.000 | No |
| 426 | 28.47 | 1.65 | 0.00 | 1.65 | 0.93 | 0.380 | 1.36 | 0.279 | 0.92 | 1.00 | 2.000 | No |
| 427 | 28.61 | 1.66 | 0.00 | 1.66 | 0.93 | 0.380 | 1.36 | 0.279 | 0.91 | 1.00 | 2.000 | No |
| 428 | 28.67 | 1.66 | 0.00 | 1.66 | 0.93 | 0.380 | 1.36 | 0.279 | 0.91 | 1.00 | 2.000 | Yes |
| 429 | 28.75 | 1.67 | 0.00 | 1.67 | 0.93 | 0.379 | 1.36 | 0.279 | 0.91 | 1.00 | 2.000 | Yes |
| 430 | 28.81 | 1.67 | 0.00 | 1.67 | 0.93 | 0.379 | 1.36 | 0.279 | 0.91 | 1.00 | 2.000 | Yes |
| 431 | 28.90 | 1.68 | 0.00 | 1.68 | 0.93 | 0.379 | 1.36 | 0.279 | 0.91 | 1.00 | 2.000 | Yes |
| 432 | 29.00 | 1.68 | 0.00 | 1.68 | 0.93 | 0.379 | 1.36 | 0.279 | 0.91 | 1.00 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 433 | 29.05 | 1.68 | 0.00 | 1.68 | 0.93 | 0.379 | 1.36 | 0.279 | 0.91 | 1.00 | 2.000 | Yes |
| 434 | 29.10 | 1.69 | 0.00 | 1.69 | 0.93 | 0.379 | 1.36 | 0.278 | 0.91 | 1.00 | 2.000 | Yes |
| 435 | 29.15 | 1.69 | 0.00 | 1.69 | 0.92 | 0.379 | 1.36 | 0.278 | 0.91 | 1.00 | 2.000 | Yes |
| 436 | 29.24 | 1.70 | 0.00 | 1.70 | 0.92 | 0.379 | 1.36 | 0.278 | 0.91 | 1.00 | 2.000 | Yes |
| 437 | 29.29 | 1.70 | 0.00 | 1.70 | 0.92 | 0.378 | 1.36 | 0.278 | 0.91 | 1.00 | 2.000 | Yes |
| 438 | 29.37 | 1.71 | 0.00 | 1.71 | 0.92 | 0.378 | 1.36 | 0.278 | 0.91 | 1.00 | 2.000 | Yes |
| 439 | 29.43 | 1.71 | 0.00 | 1.71 | 0.92 | 0.378 | 1.36 | 0.278 | 0.91 | 1.00 | 2.000 | Yes |
| 440 | 29.53 | 1.72 | 0.00 | 1.72 | 0.92 | 0.378 | 1.36 | 0.278 | 0.91 | 1.00 | 2.000 | No |
| 441 | 29.62 | 1.72 | 0.00 | 1.72 | 0.92 | 0.378 | 1.36 | 0.278 | 0.91 | 1.00 | 2.000 | No |
| 442 | 29.68 | 1.72 | 0.00 | 1.72 | 0.92 | 0.378 | 1.36 | 0.278 | 0.91 | 1.00 | 2.000 | No |
| 443 | 29.80 | 1.73 | 0.00 | 1.73 | 0.92 | 0.377 | 1.36 | 0.277 | 0.91 | 1.00 | 2.000 | No |
| 444 | 29.91 | 1.74 | 0.00 | 1.74 | 0.92 | 0.377 | 1.36 | 0.277 | 0.91 | 1.00 | 2.000 | No |
| 445 | 30.00 | 1.74 | 0.00 | 1.74 | 0.92 | 0.377 | 1.36 | 0.277 | 0.90 | 1.00 | 0.306 | No |
| 446 | 30.07 | 1.75 | 0.00 | 1.75 | 0.92 | 0.377 | 1.36 | 0.277 | 0.90 | 1.00 | 0.307 | No |
| 447 | 30.15 | 1.75 | 0.00 | 1.75 | 0.92 | 0.378 | 1.36 | 0.278 | 0.90 | 1.00 | 0.307 | No |
| 448 | 30.21 | 1.76 | 0.01 | 1.75 | 0.92 | 0.378 | 1.36 | 0.278 | 0.90 | 1.00 | 0.307 | No |
| 449 | 30.26 | 1.76 | 0.01 | 1.75 | 0.92 | 0.378 | 1.36 | 0.278 | 0.90 | 1.00 | 0.308 | No |
| 450 | 30.31 | 1.76 | 0.01 | 1.75 | 0.92 | 0.378 | 1.36 | 0.278 | 0.90 | 1.00 | 0.308 | No |
| 451 | 30.38 | 1.77 | 0.01 | 1.76 | 0.92 | 0.379 | 1.36 | 0.278 | 0.90 | 1.00 | 0.308 | No |
| 452 | 30.45 | 1.77 | 0.01 | 1.76 | 0.92 | 0.379 | 1.36 | 0.279 | 0.90 | 1.00 | 0.308 | No |
| 453 | 30.50 | 1.78 | 0.02 | 1.76 | 0.92 | 0.379 | 1.36 | 0.279 | 0.90 | 1.00 | 0.309 | No |
| 454 | 30.55 | 1.78 | 0.02 | 1.76 | 0.92 | 0.379 | 1.36 | 0.279 | 0.90 | 1.00 | 0.309 | No |
| 455 | 30.64 | 1.78 | 0.02 | 1.76 | 0.92 | 0.380 | 1.36 | 0.279 | 0.90 | 1.00 | 0.309 | No |
| 456 | 30.70 | 1.79 | 0.02 | 1.77 | 0.92 | 0.380 | 1.36 | 0.279 | 0.90 | 1.00 | 0.310 | No |
| 457 | 30.79 | 1.79 | 0.02 | 1.77 | 0.92 | 0.381 | 1.36 | 0.280 | 0.90 | 1.00 | 0.310 | No |
| 458 | 30.84 | 1.80 | 0.03 | 1.77 | 0.92 | 0.381 | 1.36 | 0.280 | 0.90 | 1.00 | 0.310 | No |
| 459 | 30.93 | 1.80 | 0.03 | 1.77 | 0.92 | 0.381 | 1.36 | 0.280 | 0.90 | 1.00 | 0.311 | No |
| 460 | 30.98 | 1.81 | 0.03 | 1.78 | 0.92 | 0.381 | 1.36 | 0.280 | 0.90 | 1.00 | 0.311 | No |
| 461 | 31.05 | 1.81 | 0.03 | 1.78 | 0.92 | 0.382 | 1.36 | 0.281 | 0.90 | 1.00 | 0.311 | No |
| 462 | 31.13 | 1.81 | 0.04 | 1.78 | 0.91 | 0.382 | 1.36 | 0.281 | 0.90 | 1.00 | 0.312 | No |
| 463 | 31.17 | 1.82 | 0.04 | 1.78 | 0.91 | 0.382 | 1.36 | 0.281 | 0.90 | 1.00 | 0.312 | No |
| 464 | 31.27 | 1.82 | 0.04 | 1.78 | 0.91 | 0.383 | 1.36 | 0.281 | 0.90 | 1.00 | 0.312 | No |
| 465 | 31.32 | 1.83 | 0.04 | 1.79 | 0.91 | 0.383 | 1.36 | 0.281 | 0.90 | 1.00 | 0.312 | No |
| 466 | 31.41 | 1.83 | 0.04 | 1.79 | 0.91 | 0.383 | 1.36 | 0.282 | 0.90 | 1.00 | 0.313 | No |
| 467 | 31.46 | 1.84 | 0.05 | 1.79 | 0.91 | 0.383 | 1.36 | 0.282 | 0.90 | 1.00 | 0.313 | No |
| 468 | 31.52 | 1.84 | 0.05 | 1.79 | 0.91 | 0.384 | 1.36 | 0.282 | 0.90 | 1.00 | 0.313 | No |
| 469 | 31.61 | 1.84 | 0.05 | 1.79 | 0.91 | 0.384 | 1.36 | 0.282 | 0.90 | 1.00 | 0.314 | No |
| 470 | 31.66 | 1.85 | 0.05 | 1.80 | 0.91 | 0.384 | 1.36 | 0.282 | 0.90 | 1.00 | 0.314 | No |
| 471 | 31.75 | 1.85 | 0.05 | 1.80 | 0.91 | 0.384 | 1.36 | 0.283 | 0.90 | 1.00 | 0.314 | No |
| 472 | 31.80 | 1.86 | 0.06 | 1.80 | 0.91 | 0.385 | 1.36 | 0.283 | 0.90 | 1.00 | 0.315 | No |
| 473 | 31.90 | 1.86 | 0.06 | 1.80 | 0.91 | 0.385 | 1.36 | 0.283 | 0.90 | 1.00 | 0.315 | No |
| 474 | 31.94 | 1.87 | 0.06 | 1.81 | 0.91 | 0.385 | 1.36 | 0.283 | 0.90 | 1.00 | 0.315 | No |
| 475 | 32.04 | 1.87 | 0.06 | 1.81 | 0.91 | 0.386 | 1.36 | 0.283 | 0.90 | 1.00 | 0.316 | No |
| 476 | 32.09 | 1.87 | 0.07 | 1.81 | 0.91 | 0.386 | 1.36 | 0.284 | 0.90 | 1.00 | 0.316 | No |
| 477 | 32.20 | 1.88 | 0.07 | 1.81 | 0.91 | 0.386 | 1.36 | 0.284 | 0.90 | 1.00 | 0.316 | No |
| 478 | 32.24 | 1.88 | 0.07 | 1.81 | 0.91 | 0.386 | 1.36 | 0.284 | 0.90 | 1.00 | 0.316 | No |
| 479 | 32.28 | 1.89 | 0.07 | 1.82 | 0.91 | 0.386 | 1.36 | 0.284 | 0.90 | 1.00 | 0.317 | No |
| 480 | 32.29 | 1.89 | 0.07 | 1.82 | 0.91 | 0.386 | 1.36 | 0.284 | 0.90 | 1.00 | 0.317 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 481 | 32.30 | 1.89 | 0.07 | 1.82 | 0.91 | 0.387 | 1.36 | 0.284 | 0.90 | 1.00 | 0.317 | No |
| 482 | 32.40 | 1.89 | 0.07 | 1.82 | 0.91 | 0.387 | 1.36 | 0.284 | 0.90 | 1.00 | 0.317 | No |
| 483 | 32.45 | 1.90 | 0.08 | 1.82 | 0.91 | 0.387 | 1.36 | 0.285 | 0.90 | 1.00 | 0.317 | No |
| 484 | 32.55 | 1.90 | 0.08 | 1.82 | 0.91 | 0.387 | 1.36 | 0.285 | 0.90 | 1.00 | 0.318 | No |
| 485 | 32.59 | 1.91 | 0.08 | 1.83 | 0.91 | 0.388 | 1.36 | 0.285 | 0.90 | 1.00 | 0.318 | No |
| 486 | 32.69 | 1.91 | 0.08 | 1.83 | 0.91 | 0.388 | 1.36 | 0.285 | 0.90 | 1.00 | 0.318 | No |
| 487 | 32.76 | 1.92 | 0.09 | 1.83 | 0.91 | 0.388 | 1.36 | 0.285 | 0.90 | 1.00 | 0.318 | No |
| 488 | 32.84 | 1.92 | 0.09 | 1.83 | 0.90 | 0.388 | 1.36 | 0.286 | 0.90 | 1.00 | 0.319 | No |
| 489 | 32.90 | 1.93 | 0.09 | 1.84 | 0.90 | 0.389 | 1.36 | 0.286 | 0.90 | 1.00 | 0.319 | No |
| 490 | 32.98 | 1.93 | 0.09 | 1.84 | 0.90 | 0.389 | 1.36 | 0.286 | 0.90 | 1.00 | 0.319 | No |
| 491 | 33.06 | 1.94 | 0.10 | 1.84 | 0.90 | 0.389 | 1.36 | 0.286 | 0.90 | 1.00 | 0.320 | No |
| 492 | 33.12 | 1.94 | 0.10 | 1.84 | 0.90 | 0.389 | 1.36 | 0.286 | 0.89 | 1.00 | 0.320 | No |
| 493 | 33.22 | 1.95 | 0.10 | 1.85 | 0.90 | 0.390 | 1.36 | 0.286 | 0.89 | 1.00 | 0.320 | No |
| 494 | 33.31 | 1.95 | 0.10 | 1.85 | 0.90 | 0.390 | 1.36 | 0.287 | 0.89 | 1.00 | 0.321 | No |
| 495 | 33.37 | 1.96 | 0.10 | 1.85 | 0.90 | 0.390 | 1.36 | 0.287 | 0.89 | 1.00 | 0.321 | No |
| 496 | 33.46 | 1.96 | 0.11 | 1.85 | 0.90 | 0.390 | 1.36 | 0.287 | 0.89 | 1.00 | 0.321 | No |
| 497 | 33.55 | 1.97 | 0.11 | 1.86 | 0.90 | 0.391 | 1.36 | 0.287 | 0.89 | 1.00 | 0.321 | No |
| 498 | 33.65 | 1.97 | 0.11 | 1.86 | 0.90 | 0.391 | 1.36 | 0.287 | 0.89 | 1.00 | 0.322 | No |
| 499 | 33.70 | 1.98 | 0.12 | 1.86 | 0.90 | 0.391 | 1.36 | 0.288 | 0.89 | 1.00 | 0.322 | No |
| 500 | 33.79 | 1.98 | 0.12 | 1.86 | 0.90 | 0.391 | 1.36 | 0.288 | 0.89 | 1.00 | 0.322 | No |
| 501 | 33.89 | 1.99 | 0.12 | 1.87 | 0.90 | 0.392 | 1.36 | 0.288 | 0.89 | 1.00 | 0.323 | No |
| 502 | 33.99 | 2.00 | 0.12 | 1.87 | 0.90 | 0.392 | 1.36 | 0.288 | 0.89 | 1.00 | 0.323 | No |
| 503 | 34.04 | 2.00 | 0.13 | 1.87 | 0.90 | 0.392 | 1.36 | 0.288 | 0.89 | 1.00 | 0.323 | No |
| 504 | 34.13 | 2.00 | 0.13 | 1.88 | 0.90 | 0.392 | 1.36 | 0.288 | 0.89 | 1.00 | 0.323 | No |
| 505 | 34.23 | 2.01 | 0.13 | 1.88 | 0.90 | 0.393 | 1.36 | 0.289 | 0.89 | 1.00 | 0.324 | No |
| 506 | 34.32 | 2.02 | 0.13 | 1.88 | 0.90 | 0.393 | 1.36 | 0.289 | 0.89 | 1.00 | 0.324 | No |
| 507 | 34.37 | 2.02 | 0.14 | 1.88 | 0.89 | 0.393 | 1.36 | 0.289 | 0.89 | 1.00 | 0.324 | No |
| 508 | 34.47 | 2.03 | 0.14 | 1.89 | 0.89 | 0.393 | 1.36 | 0.289 | 0.89 | 1.00 | 0.325 | No |
| 509 | 34.55 | 2.03 | 0.14 | 1.89 | 0.89 | 0.393 | 1.36 | 0.289 | 0.89 | 1.00 | 2.000 | Yes |
| 510 | 34.63 | 2.04 | 0.14 | 1.89 | 0.89 | 0.394 | 1.36 | 0.289 | 0.89 | 1.00 | 2.000 | Yes |
| 511 | 34.73 | 2.04 | 0.15 | 1.90 | 0.89 | 0.394 | 1.36 | 0.290 | 0.89 | 1.00 | 2.000 | Yes |
| 512 | 34.80 | 2.05 | 0.15 | 1.90 | 0.89 | 0.394 | 1.36 | 0.290 | 0.89 | 1.00 | 2.000 | Yes |
| 513 | 34.90 | 2.05 | 0.15 | 1.90 | 0.89 | 0.394 | 1.36 | 0.290 | 0.89 | 1.00 | 2.000 | Yes |
| 514 | 35.00 | 2.06 | 0.16 | 1.90 | 0.89 | 0.395 | 1.36 | 0.290 | 0.89 | 1.00 | 0.326 | No |
| 515 | 35.12 | 2.07 | 0.16 | 1.91 | 0.89 | 0.395 | 1.36 | 0.290 | 0.89 | 1.00 | 0.327 | No |
| 516 | 35.20 | 2.07 | 0.16 | 1.91 | 0.89 | 0.395 | 1.36 | 0.290 | 0.89 | 1.00 | 0.327 | No |
| 517 | 35.33 | 2.08 | 0.17 | 1.91 | 0.89 | 0.395 | 1.36 | 0.291 | 0.89 | 1.00 | 2.000 | Yes |
| 518 | 35.41 | 2.08 | 0.17 | 1.92 | 0.89 | 0.396 | 1.36 | 0.291 | 0.89 | 1.00 | 2.000 | Yes |
| 519 | 35.44 | 2.09 | 0.17 | 1.92 | 0.89 | 0.396 | 1.36 | 0.291 | 0.89 | 1.00 | 2.000 | Yes |
| 520 | 35.48 | 2.09 | 0.17 | 1.92 | 0.89 | 0.396 | 1.36 | 0.291 | 0.89 | 1.00 | 2.000 | Yes |
| 521 | 35.57 | 2.10 | 0.17 | 1.92 | 0.89 | 0.396 | 1.36 | 0.291 | 0.89 | 1.00 | 2.000 | Yes |
| 522 | 35.62 | 2.10 | 0.18 | 1.92 | 0.89 | 0.396 | 1.36 | 0.291 | 0.89 | 1.00 | 2.000 | Yes |
| 523 | 35.67 | 2.10 | 0.18 | 1.92 | 0.89 | 0.396 | 1.36 | 0.291 | 0.89 | 1.00 | 2.000 | Yes |
| 524 | 35.71 | 2.10 | 0.18 | 1.93 | 0.89 | 0.396 | 1.36 | 0.291 | 0.89 | 1.00 | 2.000 | Yes |
| 525 | 35.82 | 2.11 | 0.18 | 1.93 | 0.88 | 0.396 | 1.36 | 0.291 | 0.89 | 1.00 | 2.000 | Yes |
| 526 | 35.86 | 2.11 | 0.18 | 1.93 | 0.88 | 0.397 | 1.36 | 0.292 | 0.89 | 1.00 | 2.000 | Yes |
| 527 | 35.93 | 2.12 | 0.19 | 1.93 | 0.88 | 0.397 | 1.36 | 0.292 | 0.89 | 1.00 | 2.000 | Yes |
| 528 | 36.01 | 2.12 | 0.19 | 1.94 | 0.88 | 0.397 | 1.36 | 0.292 | 0.89 | 1.00 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 529 | 36.06 | 2.13 | 0.19 | 1.94 | 0.88 | 0.397 | 1.36 | 0.292 | 0.89 | 1.00 | 2.000 | Yes |
| 530 | 36.12 | 2.13 | 0.19 | 1.94 | 0.88 | 0.397 | 1.36 | 0.292 | 0.89 | 1.00 | 0.329 | No |
| 531 | 36.18 | 2.13 | 0.19 | 1.94 | 0.88 | 0.397 | 1.36 | 0.292 | 0.89 | 1.00 | 0.330 | No |
| 532 | 36.25 | 2.14 | 0.19 | 1.94 | 0.88 | 0.397 | 1.36 | 0.292 | 0.89 | 1.00 | 0.330 | No |
| 533 | 36.30 | 2.14 | 0.20 | 1.95 | 0.88 | 0.397 | 1.36 | 0.292 | 0.89 | 1.00 | 0.330 | No |
| 534 | 36.39 | 2.15 | 0.20 | 1.95 | 0.88 | 0.397 | 1.36 | 0.292 | 0.89 | 1.00 | 0.330 | No |
| 535 | 36.44 | 2.15 | 0.20 | 1.95 | 0.88 | 0.398 | 1.36 | 0.292 | 0.88 | 1.00 | 0.330 | No |
| 536 | 36.53 | 2.16 | 0.20 | 1.95 | 0.88 | 0.398 | 1.36 | 0.292 | 0.88 | 1.00 | 0.331 | No |
| 537 | 36.59 | 2.16 | 0.21 | 1.96 | 0.88 | 0.398 | 1.36 | 0.292 | 0.88 | 1.00 | 0.331 | No |
| 538 | 36.68 | 2.17 | 0.21 | 1.96 | 0.88 | 0.398 | 1.36 | 0.293 | 0.88 | 1.00 | 0.331 | No |
| 539 | 36.75 | 2.17 | 0.21 | 1.96 | 0.88 | 0.398 | 1.36 | 0.293 | 0.88 | 1.00 | 0.331 | No |
| 540 | 36.83 | 2.18 | 0.21 | 1.96 | 0.88 | 0.398 | 1.36 | 0.293 | 0.88 | 1.00 | 0.331 | No |
| 541 | 36.90 | 2.18 | 0.22 | 1.97 | 0.88 | 0.398 | 1.36 | 0.293 | 0.88 | 1.00 | 0.331 | No |
| 542 | 36.97 | 2.19 | 0.22 | 1.97 | 0.88 | 0.398 | 1.36 | 0.293 | 0.88 | 1.00 | 0.332 | No |
| 543 | 37.02 | 2.19 | 0.22 | 1.97 | 0.88 | 0.398 | 1.36 | 0.293 | 0.88 | 1.00 | 0.332 | No |
| 544 | 37.04 | 2.19 | 0.22 | 1.97 | 0.88 | 0.399 | 1.36 | 0.293 | 0.88 | 1.00 | 0.332 | No |
| 545 | 37.08 | 2.19 | 0.22 | 1.97 | 0.88 | 0.399 | 1.36 | 0.293 | 0.88 | 1.00 | 0.332 | No |
| 546 | 37.17 | 2.20 | 0.22 | 1.98 | 0.87 | 0.399 | 1.36 | 0.293 | 0.88 | 1.00 | 0.332 | No |
| 547 | 37.27 | 2.21 | 0.23 | 1.98 | 0.87 | 0.399 | 1.36 | 0.293 | 0.88 | 1.00 | 0.332 | No |
| 548 | 37.37 | 2.21 | 0.23 | 1.98 | 0.87 | 0.399 | 1.36 | 0.293 | 0.88 | 1.00 | 0.333 | No |
| 549 | 37.42 | 2.22 | 0.23 | 1.98 | 0.87 | 0.399 | 1.36 | 0.293 | 0.88 | 1.00 | 0.333 | No |
| 550 | 37.51 | 2.22 | 0.23 | 1.99 | 0.87 | 0.399 | 1.36 | 0.293 | 0.88 | 1.00 | 0.333 | No |
| 551 | 37.58 | 2.23 | 0.24 | 1.99 | 0.87 | 0.399 | 1.36 | 0.294 | 0.88 | 1.00 | 0.333 | No |
| 552 | 37.66 | 2.23 | 0.24 | 1.99 | 0.87 | 0.399 | 1.36 | 0.294 | 0.88 | 1.00 | 0.333 | No |
| 553 | 37.76 | 2.24 | 0.24 | 1.99 | 0.87 | 0.399 | 1.36 | 0.294 | 0.88 | 1.00 | 0.333 | No |
| 554 | 37.85 | 2.24 | 0.24 | 2.00 | 0.87 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.334 | No |
| 555 | 37.93 | 2.25 | 0.25 | 2.00 | 0.87 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.334 | No |
| 556 | 38.04 | 2.26 | 0.25 | 2.00 | 0.87 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.334 | No |
| 557 | 38.13 | 2.26 | 0.25 | 2.01 | 0.87 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.334 | No |
| 558 | 38.18 | 2.26 | 0.26 | 2.01 | 0.87 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.334 | No |
| 559 | 38.28 | 2.27 | 0.26 | 2.01 | 0.87 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.334 | No |
| 560 | 38.37 | 2.28 | 0.26 | 2.01 | 0.86 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.335 | No |
| 561 | 38.47 | 2.28 | 0.26 | 2.02 | 0.86 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.335 | No |
| 562 | 38.57 | 2.29 | 0.27 | 2.02 | 0.86 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.335 | No |
| 563 | 38.62 | 2.29 | 0.27 | 2.02 | 0.86 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.335 | No |
| 564 | 38.72 | 2.30 | 0.27 | 2.03 | 0.86 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.335 | No |
| 565 | 38.78 | 2.30 | 0.27 | 2.03 | 0.86 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.335 | No |
| 566 | 38.81 | 2.30 | 0.27 | 2.03 | 0.86 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.335 | No |
| 567 | 38.86 | 2.31 | 0.28 | 2.03 | 0.86 | 0.401 | 1.36 | 0.294 | 0.88 | 1.00 | 0.335 | No |
| 568 | 38.91 | 2.31 | 0.28 | 2.03 | 0.86 | 0.401 | 1.36 | 0.294 | 0.88 | 1.00 | 0.336 | No |
| 569 | 38.95 | 2.31 | 0.28 | 2.03 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.336 | No |
| 570 | 39.05 | 2.32 | 0.28 | 2.04 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.336 | No |
| 571 | 39.09 | 2.32 | 0.28 | 2.04 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.336 | No |
| 572 | 39.14 | 2.33 | 0.29 | 2.04 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.336 | No |
| 573 | 39.24 | 2.33 | 0.29 | 2.04 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.336 | No |
| 574 | 39.29 | 2.33 | 0.29 | 2.05 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.336 | No |
| 575 | 39.39 | 2.34 | 0.29 | 2.05 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.336 | No |
| 576 | 39.43 | 2.34 | 0.29 | 2.05 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.336 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 577 | 39.53 | 2.35 | 0.30 | 2.05 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.337 | No |
| 578 | 39.57 | 2.35 | 0.30 | 2.05 | 0.85 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.337 | No |
| 579 | 39.68 | 2.36 | 0.30 | 2.06 | 0.85 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.337 | No |
| 580 | 39.73 | 2.36 | 0.30 | 2.06 | 0.85 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.337 | No |
| 581 | 39.81 | 2.37 | 0.31 | 2.06 | 0.85 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.337 | No |
| 582 | 39.89 | 2.37 | 0.31 | 2.07 | 0.85 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.337 | No |
| 583 | 39.96 | 2.38 | 0.31 | 2.07 | 0.85 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.337 | No |
| 584 | 40.06 | 2.38 | 0.31 | 2.07 | 0.85 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.337 | No |
| 585 | 40.15 | 2.39 | 0.32 | 2.07 | 0.85 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.337 | No |
| 586 | 40.20 | 2.39 | 0.32 | 2.07 | 0.85 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.337 | No |
| 587 | 40.24 | 2.40 | 0.32 | 2.08 | 0.85 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.337 | No |
| 588 | 40.26 | 2.40 | 0.32 | 2.08 | 0.85 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.337 | No |
| 589 | 40.27 | 2.40 | 0.32 | 2.08 | 0.85 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.338 | No |
| 590 | 40.37 | 2.40 | 0.32 | 2.08 | 0.85 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.338 | No |
| 591 | 40.42 | 2.41 | 0.32 | 2.08 | 0.85 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.338 | No |
| 592 | 40.52 | 2.41 | 0.33 | 2.09 | 0.85 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.338 | No |
| 593 | 40.56 | 2.42 | 0.33 | 2.09 | 0.85 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.338 | No |
| 594 | 40.66 | 2.42 | 0.33 | 2.09 | 0.85 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.338 | No |
| 595 | 40.70 | 2.43 | 0.33 | 2.09 | 0.84 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.338 | No |
| 596 | 40.75 | 2.43 | 0.34 | 2.09 | 0.84 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.338 | No |
| 597 | 40.85 | 2.43 | 0.34 | 2.10 | 0.84 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.338 | No |
| 598 | 40.91 | 2.44 | 0.34 | 2.10 | 0.84 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.338 | No |
| 599 | 40.96 | 2.44 | 0.34 | 2.10 | 0.84 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.338 | No |
| 600 | 41.04 | 2.45 | 0.34 | 2.10 | 0.84 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.338 | No |
| 601 | 41.09 | 2.45 | 0.35 | 2.10 | 0.84 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.338 | No |
| 602 | 41.18 | 2.46 | 0.35 | 2.11 | 0.84 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.338 | No |
| 603 | 41.23 | 2.46 | 0.35 | 2.11 | 0.84 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 604 | 41.29 | 2.46 | 0.35 | 2.11 | 0.84 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 605 | 41.38 | 2.47 | 0.36 | 2.11 | 0.84 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 606 | 41.42 | 2.47 | 0.36 | 2.12 | 0.84 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 607 | 41.52 | 2.48 | 0.36 | 2.12 | 0.84 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 608 | 41.57 | 2.48 | 0.36 | 2.12 | 0.84 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 609 | 41.62 | 2.49 | 0.36 | 2.12 | 0.84 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 610 | 41.71 | 2.49 | 0.37 | 2.13 | 0.84 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 611 | 41.76 | 2.49 | 0.37 | 2.13 | 0.84 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 612 | 41.84 | 2.50 | 0.37 | 2.13 | 0.83 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 613 | 41.91 | 2.50 | 0.37 | 2.13 | 0.83 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 614 | 41.95 | 2.51 | 0.37 | 2.13 | 0.83 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 615 | 42.01 | 2.51 | 0.37 | 2.14 | 0.83 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 616 | 42.10 | 2.52 | 0.38 | 2.14 | 0.83 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 617 | 42.15 | 2.52 | 0.38 | 2.14 | 0.83 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 618 | 42.24 | 2.53 | 0.38 | 2.14 | 0.83 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 619 | 42.28 | 2.53 | 0.38 | 2.15 | 0.83 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 620 | 42.39 | 2.54 | 0.39 | 2.15 | 0.83 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 621 | 42.43 | 2.54 | 0.39 | 2.15 | 0.83 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 622 | 42.50 | 2.54 | 0.39 | 2.15 | 0.83 | 0.401 | 1.36 | 0.294 | 0.87 | 1.00 | 0.339 | No |
| 623 | 42.58 | 2.55 | 0.39 | 2.16 | 0.83 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.339 | No |
| 624 | 42.65 | 2.55 | 0.39 | 2.16 | 0.83 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 625 | 42.70 | 2.56 | 0.40 | 2.16 | 0.83 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 626 | 42.73 | 2.56 | 0.40 | 2.16 | 0.83 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 627 | 42.77 | 2.56 | 0.40 | 2.16 | 0.83 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 628 | 42.82 | 2.56 | 0.40 | 2.16 | 0.82 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 629 | 42.87 | 2.57 | 0.40 | 2.17 | 0.82 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 630 | 42.91 | 2.57 | 0.40 | 2.17 | 0.82 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 631 | 42.97 | 2.57 | 0.40 | 2.17 | 0.82 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 632 | 43.02 | 2.58 | 0.41 | 2.17 | 0.82 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 633 | 43.06 | 2.58 | 0.41 | 2.17 | 0.82 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 634 | 43.11 | 2.58 | 0.41 | 2.17 | 0.82 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 635 | 43.17 | 2.59 | 0.41 | 2.18 | 0.82 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 636 | 43.21 | 2.59 | 0.41 | 2.18 | 0.82 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 637 | 43.29 | 2.59 | 0.41 | 2.18 | 0.82 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 638 | 43.34 | 2.60 | 0.42 | 2.18 | 0.82 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 639 | 43.39 | 2.60 | 0.42 | 2.18 | 0.82 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 640 | 43.45 | 2.61 | 0.42 | 2.19 | 0.82 | 0.400 | 1.36 | 0.294 | 0.86 | 1.00 | 0.340 | No |
| 641 | 43.51 | 2.61 | 0.42 | 2.19 | 0.82 | 0.400 | 1.36 | 0.294 | 0.86 | 1.00 | 0.340 | No |
| 642 | 43.59 | 2.61 | 0.42 | 2.19 | 0.82 | 0.400 | 1.36 | 0.294 | 0.86 | 1.00 | 0.340 | No |
| 643 | 43.64 | 2.62 | 0.43 | 2.19 | 0.82 | 0.400 | 1.36 | 0.294 | 0.86 | 1.00 | 0.340 | No |
| 644 | 43.70 | 2.62 | 0.43 | 2.19 | 0.82 | 0.399 | 1.36 | 0.294 | 0.86 | 1.00 | 0.340 | No |
| 645 | 43.78 | 2.63 | 0.43 | 2.20 | 0.82 | 0.399 | 1.36 | 0.294 | 0.86 | 1.00 | 0.340 | No |
| 646 | 43.88 | 2.63 | 0.43 | 2.20 | 0.81 | 0.399 | 1.36 | 0.294 | 0.86 | 1.00 | 0.340 | No |
| 647 | 43.94 | 2.64 | 0.43 | 2.20 | 0.81 | 0.399 | 1.36 | 0.294 | 0.86 | 1.00 | 0.340 | No |
| 648 | 44.04 | 2.64 | 0.44 | 2.21 | 0.81 | 0.399 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 649 | 44.07 | 2.65 | 0.44 | 2.21 | 0.81 | 0.399 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 650 | 44.12 | 2.65 | 0.44 | 2.21 | 0.81 | 0.399 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 651 | 44.16 | 2.65 | 0.44 | 2.21 | 0.81 | 0.399 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 652 | 44.21 | 2.65 | 0.44 | 2.21 | 0.81 | 0.399 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 653 | 44.26 | 2.66 | 0.44 | 2.21 | 0.81 | 0.399 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 654 | 44.31 | 2.66 | 0.45 | 2.22 | 0.81 | 0.399 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 655 | 44.35 | 2.66 | 0.45 | 2.22 | 0.81 | 0.399 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 656 | 44.40 | 2.67 | 0.45 | 2.22 | 0.81 | 0.399 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 657 | 44.45 | 2.67 | 0.45 | 2.22 | 0.81 | 0.399 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 658 | 44.50 | 2.67 | 0.45 | 2.22 | 0.81 | 0.399 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 659 | 44.54 | 2.68 | 0.45 | 2.22 | 0.81 | 0.399 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 660 | 44.60 | 2.68 | 0.46 | 2.22 | 0.81 | 0.398 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 661 | 44.64 | 2.68 | 0.46 | 2.23 | 0.81 | 0.398 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 662 | 44.69 | 2.69 | 0.46 | 2.23 | 0.81 | 0.398 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 663 | 44.74 | 2.69 | 0.46 | 2.23 | 0.81 | 0.398 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 664 | 44.79 | 2.69 | 0.46 | 2.23 | 0.81 | 0.398 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 665 | 44.83 | 2.70 | 0.46 | 2.23 | 0.81 | 0.398 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 666 | 44.88 | 2.70 | 0.46 | 2.23 | 0.80 | 0.398 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 667 | 44.93 | 2.70 | 0.47 | 2.24 | 0.80 | 0.398 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 668 | 44.98 | 2.71 | 0.47 | 2.24 | 0.80 | 0.398 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 669 | 45.03 | 2.71 | 0.47 | 2.24 | 0.80 | 0.398 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 670 | 45.08 | 2.71 | 0.47 | 2.24 | 0.80 | 0.398 | 1.36 | 0.292 | 0.86 | 1.00 | 0.340 | No |
| 671 | 45.16 | 2.72 | 0.47 | 2.24 | 0.80 | 0.398 | 1.36 | 0.292 | 0.86 | 1.00 | 0.340 | No |
| 672 | 45.19 | 2.72 | 0.47 | 2.25 | 0.80 | 0.398 | 1.36 | 0.292 | 0.86 | 1.00 | 0.340 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 673 | 45.27 | 2.72 | 0.48 | 2.25 | 0.80 | 0.397 | 1.36 | 0.292 | 0.86 | 1.00 | 0.340 | No |
| 674 | 45.32 | 2.73 | 0.48 | 2.25 | 0.80 | 0.397 | 1.36 | 0.292 | 0.86 | 1.00 | 0.340 | No |
| 675 | 45.37 | 2.73 | 0.48 | 2.25 | 0.80 | 0.397 | 1.36 | 0.292 | 0.86 | 1.00 | 0.340 | No |
| 676 | 45.45 | 2.74 | 0.48 | 2.25 | 0.80 | 0.397 | 1.36 | 0.292 | 0.86 | 1.00 | 0.340 | No |
| 677 | 45.51 | 2.74 | 0.48 | 2.26 | 0.80 | 0.397 | 1.36 | 0.292 | 0.86 | 1.00 | 0.340 | No |
| 678 | 45.56 | 2.74 | 0.49 | 2.26 | 0.80 | 0.397 | 1.36 | 0.292 | 0.86 | 1.00 | 2.000 | Yes |
| 679 | 45.61 | 2.75 | 0.49 | 2.26 | 0.80 | 0.397 | 1.36 | 0.292 | 0.86 | 1.00 | 2.000 | Yes |
| 680 | 45.69 | 2.75 | 0.49 | 2.26 | 0.80 | 0.397 | 1.36 | 0.292 | 0.86 | 1.00 | 2.000 | Yes |
| 681 | 45.75 | 2.76 | 0.49 | 2.26 | 0.80 | 0.397 | 1.36 | 0.292 | 0.86 | 1.00 | 2.000 | Yes |
| 682 | 45.81 | 2.76 | 0.49 | 2.27 | 0.80 | 0.397 | 1.36 | 0.292 | 0.86 | 1.00 | 2.000 | Yes |
| 683 | 45.89 | 2.76 | 0.50 | 2.27 | 0.79 | 0.397 | 1.36 | 0.292 | 0.86 | 1.00 | 2.000 | Yes |
| 684 | 45.94 | 2.77 | 0.50 | 2.27 | 0.79 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 2.000 | Yes |
| 685 | 46.04 | 2.77 | 0.50 | 2.27 | 0.79 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 2.000 | Yes |
| 686 | 46.08 | 2.78 | 0.50 | 2.27 | 0.79 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 2.000 | Yes |
| 687 | 46.15 | 2.78 | 0.50 | 2.28 | 0.79 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 2.000 | Yes |
| 688 | 46.17 | 2.78 | 0.50 | 2.28 | 0.79 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 0.339 | No |
| 689 | 46.18 | 2.78 | 0.50 | 2.28 | 0.79 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 0.339 | No |
| 690 | 46.23 | 2.79 | 0.51 | 2.28 | 0.79 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 0.339 | No |
| 691 | 46.27 | 2.79 | 0.51 | 2.28 | 0.79 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 0.339 | No |
| 692 | 46.32 | 2.79 | 0.51 | 2.28 | 0.79 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 0.339 | No |
| 693 | 46.41 | 2.80 | 0.51 | 2.28 | 0.79 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 0.339 | No |
| 694 | 46.47 | 2.80 | 0.51 | 2.29 | 0.79 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 0.339 | No |
| 695 | 46.52 | 2.80 | 0.52 | 2.29 | 0.79 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 0.339 | No |
| 696 | 46.56 | 2.81 | 0.52 | 2.29 | 0.79 | 0.395 | 1.36 | 0.291 | 0.86 | 1.00 | 0.339 | No |
| 697 | 46.65 | 2.81 | 0.52 | 2.29 | 0.79 | 0.395 | 1.36 | 0.291 | 0.86 | 1.00 | 0.339 | No |
| 698 | 46.71 | 2.81 | 0.52 | 2.29 | 0.79 | 0.395 | 1.36 | 0.291 | 0.86 | 1.00 | 0.339 | No |
| 699 | 46.76 | 2.82 | 0.52 | 2.29 | 0.79 | 0.395 | 1.36 | 0.291 | 0.86 | 1.00 | 0.339 | No |
| 700 | 46.85 | 2.82 | 0.53 | 2.30 | 0.78 | 0.395 | 1.36 | 0.290 | 0.86 | 1.00 | 0.339 | No |
| 701 | 46.90 | 2.83 | 0.53 | 2.30 | 0.78 | 0.395 | 1.36 | 0.290 | 0.86 | 1.00 | 0.339 | No |
| 702 | 46.99 | 2.83 | 0.53 | 2.30 | 0.78 | 0.395 | 1.36 | 0.290 | 0.86 | 1.00 | 0.339 | No |
| 703 | 47.04 | 2.84 | 0.53 | 2.30 | 0.78 | 0.395 | 1.36 | 0.290 | 0.86 | 1.00 | 0.339 | No |
| 704 | 47.10 | 2.84 | 0.53 | 2.31 | 0.78 | 0.395 | 1.36 | 0.290 | 0.86 | 1.00 | 0.339 | No |
| 705 | 47.16 | 2.84 | 0.54 | 2.31 | 0.78 | 0.394 | 1.36 | 0.290 | 0.86 | 1.00 | 0.339 | No |
| 706 | 47.23 | 2.85 | 0.54 | 2.31 | 0.78 | 0.394 | 1.36 | 0.290 | 0.86 | 1.00 | 0.339 | No |
| 707 | 47.30 | 2.85 | 0.54 | 2.31 | 0.78 | 0.394 | 1.36 | 0.290 | 0.86 | 1.00 | 0.339 | No |
| 708 | 47.38 | 2.86 | 0.54 | 2.31 | 0.78 | 0.394 | 1.36 | 0.290 | 0.86 | 1.00 | 0.339 | No |
| 709 | 47.43 | 2.86 | 0.54 | 2.32 | 0.78 | 0.394 | 1.36 | 0.290 | 0.86 | 1.00 | 0.339 | No |
| 710 | 47.52 | 2.86 | 0.55 | 2.32 | 0.78 | 0.394 | 1.36 | 0.289 | 0.85 | 1.00 | 0.339 | No |
| 711 | 47.59 | 2.87 | 0.55 | 2.32 | 0.78 | 0.394 | 1.36 | 0.289 | 0.85 | 1.00 | 0.339 | No |
| 712 | 47.66 | 2.87 | 0.55 | 2.32 | 0.78 | 0.394 | 1.36 | 0.289 | 0.85 | 1.00 | 0.339 | No |
| 713 | 47.77 | 2.88 | 0.55 | 2.32 | 0.78 | 0.393 | 1.36 | 0.289 | 0.85 | 1.00 | 0.338 | No |
| 714 | 47.82 | 2.88 | 0.56 | 2.33 | 0.77 | 0.393 | 1.36 | 0.289 | 0.85 | 1.00 | 0.338 | No |
| 715 | 47.91 | 2.89 | 0.56 | 2.33 | 0.77 | 0.393 | 1.36 | 0.289 | 0.85 | 1.00 | 0.338 | No |
| 716 | 47.93 | 2.89 | 0.56 | 2.33 | 0.77 | 0.393 | 1.36 | 0.289 | 0.85 | 1.00 | 0.338 | No |
| 717 | 47.97 | 2.89 | 0.56 | 2.33 | 0.77 | 0.393 | 1.36 | 0.289 | 0.85 | 1.00 | 0.338 | No |
| 718 | 48.02 | 2.89 | 0.56 | 2.33 | 0.77 | 0.393 | 1.36 | 0.289 | 0.85 | 1.00 | 0.338 | No |
| 719 | 48.07 | 2.90 | 0.56 | 2.33 | 0.77 | 0.393 | 1.36 | 0.289 | 0.85 | 1.00 | 0.338 | No |
| 720 | 48.12 | 2.90 | 0.57 | 2.33 | 0.77 | 0.393 | 1.36 | 0.289 | 0.85 | 1.00 | 0.338 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 721 | 48.19 | 2.90 | 0.57 | 2.34 | 0.77 | 0.393 | 1.36 | 0.289 | 0.85 | 1.00 | 0.338 | No |
| 722 | 48.23 | 2.91 | 0.57 | 2.34 | 0.77 | 0.392 | 1.36 | 0.289 | 0.85 | 1.00 | 0.338 | No |
| 723 | 48.31 | 2.91 | 0.57 | 2.34 | 0.77 | 0.392 | 1.36 | 0.288 | 0.85 | 1.00 | 0.338 | No |
| 724 | 48.35 | 2.91 | 0.57 | 2.34 | 0.77 | 0.392 | 1.36 | 0.288 | 0.85 | 1.00 | 0.338 | No |
| 725 | 48.40 | 2.92 | 0.57 | 2.34 | 0.77 | 0.392 | 1.36 | 0.288 | 0.85 | 1.00 | 0.338 | No |
| 726 | 48.45 | 2.92 | 0.58 | 2.34 | 0.77 | 0.392 | 1.36 | 0.288 | 0.85 | 1.00 | 0.338 | No |
| 727 | 48.50 | 2.92 | 0.58 | 2.34 | 0.77 | 0.392 | 1.36 | 0.288 | 0.85 | 1.00 | 0.338 | No |
| 728 | 48.55 | 2.92 | 0.58 | 2.35 | 0.77 | 0.392 | 1.36 | 0.288 | 0.85 | 1.00 | 0.338 | No |
| 729 | 48.59 | 2.93 | 0.58 | 2.35 | 0.77 | 0.392 | 1.36 | 0.288 | 0.85 | 1.00 | 0.338 | No |
| 730 | 48.67 | 2.93 | 0.58 | 2.35 | 0.77 | 0.392 | 1.36 | 0.288 | 0.85 | 1.00 | 0.338 | No |
| 731 | 48.73 | 2.93 | 0.58 | 2.35 | 0.77 | 0.392 | 1.36 | 0.288 | 0.85 | 1.00 | 0.338 | No |
| 732 | 48.78 | 2.94 | 0.59 | 2.35 | 0.77 | 0.391 | 1.36 | 0.288 | 0.85 | 1.00 | 0.338 | No |
| 733 | 48.83 | 2.94 | 0.59 | 2.35 | 0.76 | 0.391 | 1.36 | 0.288 | 0.85 | 1.00 | 0.338 | No |
| 734 | 48.91 | 2.94 | 0.59 | 2.35 | 0.76 | 0.391 | 1.36 | 0.288 | 0.85 | 1.00 | 0.337 | No |
| 735 | 48.98 | 2.95 | 0.59 | 2.36 | 0.76 | 0.391 | 1.36 | 0.287 | 0.85 | 1.00 | 0.337 | No |
| 736 | 49.03 | 2.95 | 0.59 | 2.36 | 0.76 | 0.391 | 1.36 | 0.287 | 0.85 | 1.00 | 0.337 | No |
| 737 | 49.12 | 2.96 | 0.60 | 2.36 | 0.76 | 0.391 | 1.36 | 0.287 | 0.85 | 1.00 | 0.337 | No |
| 738 | 49.17 | 2.96 | 0.60 | 2.36 | 0.76 | 0.391 | 1.36 | 0.287 | 0.85 | 1.00 | 0.337 | No |
| 739 | 49.27 | 2.97 | 0.60 | 2.36 | 0.76 | 0.390 | 1.36 | 0.287 | 0.85 | 1.00 | 0.337 | No |
| 740 | 49.31 | 2.97 | 0.60 | 2.37 | 0.76 | 0.390 | 1.36 | 0.287 | 0.85 | 1.00 | 0.337 | No |
| 741 | 49.38 | 2.97 | 0.60 | 2.37 | 0.76 | 0.390 | 1.36 | 0.287 | 0.85 | 1.00 | 0.337 | No |
| 742 | 49.45 | 2.98 | 0.61 | 2.37 | 0.76 | 0.390 | 1.36 | 0.287 | 0.85 | 1.00 | 0.337 | No |
| 743 | 49.51 | 2.98 | 0.61 | 2.37 | 0.76 | 0.390 | 1.36 | 0.287 | 0.85 | 1.00 | 0.337 | No |
| 744 | 49.54 | 2.98 | 0.61 | 2.37 | 0.76 | 0.390 | 1.36 | 0.287 | 0.85 | 1.00 | 0.337 | No |
| 745 | 49.59 | 2.98 | 0.61 | 2.37 | 0.76 | 0.390 | 1.36 | 0.287 | 0.85 | 1.00 | 0.337 | No |
| 746 | 49.64 | 2.99 | 0.61 | 2.37 | 0.76 | 0.390 | 1.36 | 0.287 | 0.85 | 1.00 | 0.337 | No |
| 747 | 49.73 | 2.99 | 0.62 | 2.38 | 0.76 | 0.389 | 1.36 | 0.286 | 0.85 | 1.00 | 0.337 | No |
| 748 | 49.83 | 3.00 | 0.62 | 2.38 | 0.75 | 0.389 | 1.36 | 0.286 | 0.85 | 1.00 | 0.337 | No |
| 749 | 49.92 | 3.00 | 0.62 | 2.38 | 0.75 | 0.389 | 1.36 | 0.286 | 0.85 | 1.00 | 0.336 | No |
| 750 | 49.98 | 3.01 | 0.62 | 2.38 | 0.75 | 0.389 | 1.36 | 0.286 | 0.85 | 1.00 | 0.336 | No |
| 751 | 50.07 | 3.01 | 0.63 | 2.39 | 0.75 | 0.389 | 1.36 | 0.286 | 0.85 | 1.00 | 0.336 | No |
| 752 | 50.16 | 3.02 | 0.63 | 2.39 | 0.75 | 0.389 | 1.36 | 0.286 | 0.85 | 1.00 | 0.336 | No |
| 753 | 50.24 | 3.02 | 0.63 | 2.39 | 0.75 | 0.388 | 1.36 | 0.286 | 0.85 | 1.00 | 0.336 | No |
| 754 | 50.32 | 3.03 | 0.63 | 2.39 | 0.75 | 0.388 | 1.36 | 0.285 | 0.85 | 1.00 | 0.336 | No |
| 755 | 50.41 | 3.03 | 0.64 | 2.39 | 0.75 | 0.388 | 1.36 | 0.285 | 0.85 | 1.00 | 0.336 | No |
| 756 | 50.50 | 3.04 | 0.64 | 2.40 | 0.75 | 0.388 | 1.36 | 0.285 | 0.85 | 1.00 | 0.336 | No |
| 757 | 50.56 | 3.04 | 0.64 | 2.40 | 0.75 | 0.388 | 1.36 | 0.285 | 0.85 | 1.00 | 0.336 | No |
| 758 | 50.66 | 3.04 | 0.64 | 2.40 | 0.75 | 0.388 | 1.36 | 0.285 | 0.85 | 1.00 | 0.336 | No |
| 759 | 50.74 | 3.05 | 0.65 | 2.40 | 0.75 | 0.387 | 1.36 | 0.285 | 0.85 | 1.00 | 0.336 | No |
| 760 | 50.84 | 3.05 | 0.65 | 2.40 | 0.74 | 0.387 | 1.36 | 0.285 | 0.85 | 1.00 | 0.335 | No |
| 761 | 50.93 | 3.06 | 0.65 | 2.41 | 0.74 | 0.387 | 1.36 | 0.284 | 0.85 | 1.00 | 0.335 | No |
| 762 | 50.98 | 3.06 | 0.65 | 2.41 | 0.74 | 0.387 | 1.36 | 0.284 | 0.85 | 1.00 | 0.335 | No |
| 763 | 51.08 | 3.07 | 0.66 | 2.41 | 0.74 | 0.387 | 1.36 | 0.284 | 0.85 | 1.00 | 0.335 | No |
| 764 | 51.17 | 3.07 | 0.66 | 2.41 | 0.74 | 0.386 | 1.36 | 0.284 | 0.85 | 1.00 | 0.335 | No |
| 765 | 51.24 | 3.08 | 0.66 | 2.42 | 0.74 | 0.386 | 1.36 | 0.284 | 0.85 | 1.00 | 0.335 | No |
| 766 | 51.34 | 3.09 | 0.67 | 2.42 | 0.74 | 0.386 | 1.36 | 0.284 | 0.85 | 1.00 | 0.335 | No |
| 767 | 51.41 | 3.09 | 0.67 | 2.42 | 0.74 | 0.386 | 1.36 | 0.284 | 0.85 | 1.00 | 0.335 | No |
| 768 | 51.51 | 3.10 | 0.67 | 2.42 | 0.74 | 0.386 | 1.36 | 0.283 | 0.85 | 1.00 | 0.335 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 769 | 51.58 | 3.10 | 0.67 | 2.43 | 0.74 | 0.385 | 1.36 | 0.283 | 0.85 | 1.00 | 0.335 | No |
| 770 | 51.68 | 3.11 | 0.68 | 2.43 | 0.74 | 0.385 | 1.36 | 0.283 | 0.85 | 1.00 | 0.334 | No |
| 771 | 51.79 | 3.11 | 0.68 | 2.43 | 0.73 | 0.385 | 1.36 | 0.283 | 0.85 | 1.00 | 0.334 | No |
| 772 | 51.82 | 3.11 | 0.68 | 2.43 | 0.73 | 0.385 | 1.36 | 0.283 | 0.85 | 1.00 | 0.334 | No |
| 773 | 51.85 | 3.12 | 0.68 | 2.43 | 0.73 | 0.385 | 1.36 | 0.283 | 0.85 | 1.00 | 0.334 | No |
| 774 | 51.91 | 3.12 | 0.68 | 2.44 | 0.73 | 0.385 | 1.36 | 0.283 | 0.85 | 1.00 | 0.334 | No |
| 775 | 52.00 | 3.13 | 0.69 | 2.44 | 0.73 | 0.384 | 1.36 | 0.283 | 0.85 | 1.00 | 0.334 | No |
| 776 | 52.05 | 3.13 | 0.69 | 2.44 | 0.73 | 0.384 | 1.36 | 0.283 | 0.85 | 1.00 | 0.334 | No |
| 777 | 52.10 | 3.13 | 0.69 | 2.44 | 0.73 | 0.384 | 1.36 | 0.282 | 0.85 | 1.00 | 0.334 | No |
| 778 | 52.19 | 3.14 | 0.69 | 2.44 | 0.73 | 0.384 | 1.36 | 0.282 | 0.85 | 1.00 | 0.334 | No |
| 779 | 52.28 | 3.14 | 0.70 | 2.45 | 0.73 | 0.384 | 1.36 | 0.282 | 0.85 | 1.00 | 0.334 | No |
| 780 | 52.34 | 3.15 | 0.70 | 2.45 | 0.73 | 0.384 | 1.36 | 0.282 | 0.85 | 1.00 | 0.334 | No |
| 781 | 52.42 | 3.15 | 0.70 | 2.45 | 0.73 | 0.383 | 1.36 | 0.282 | 0.85 | 1.00 | 0.333 | No |
| 782 | 52.48 | 3.15 | 0.70 | 2.45 | 0.73 | 0.383 | 1.36 | 0.282 | 0.85 | 1.00 | 0.333 | No |
| 783 | 52.57 | 3.16 | 0.70 | 2.46 | 0.73 | 0.383 | 1.36 | 0.282 | 0.84 | 1.00 | 0.333 | No |
| 784 | 52.62 | 3.16 | 0.71 | 2.46 | 0.73 | 0.383 | 1.36 | 0.281 | 0.84 | 1.00 | 0.333 | No |
| 785 | 52.69 | 3.17 | 0.71 | 2.46 | 0.73 | 0.383 | 1.36 | 0.281 | 0.84 | 1.00 | 0.333 | No |
| 786 | 52.77 | 3.17 | 0.71 | 2.46 | 0.72 | 0.382 | 1.36 | 0.281 | 0.84 | 1.00 | 0.333 | No |
| 787 | 52.87 | 3.18 | 0.71 | 2.46 | 0.72 | 0.382 | 1.36 | 0.281 | 0.84 | 1.00 | 0.333 | No |
| 788 | 52.91 | 3.18 | 0.71 | 2.47 | 0.72 | 0.382 | 1.36 | 0.281 | 0.84 | 1.00 | 0.333 | No |
| 789 | 53.01 | 3.19 | 0.72 | 2.47 | 0.72 | 0.382 | 1.36 | 0.281 | 0.84 | 1.00 | 0.333 | No |
| 790 | 53.10 | 3.19 | 0.72 | 2.47 | 0.72 | 0.382 | 1.36 | 0.281 | 0.84 | 1.00 | 0.333 | No |
| 791 | 53.16 | 3.20 | 0.72 | 2.47 | 0.72 | 0.382 | 1.36 | 0.281 | 0.84 | 1.00 | 0.332 | No |
| 792 | 53.25 | 3.20 | 0.73 | 2.48 | 0.72 | 0.381 | 1.36 | 0.280 | 0.84 | 1.00 | 0.332 | No |
| 793 | 53.29 | 3.20 | 0.73 | 2.48 | 0.72 | 0.381 | 1.36 | 0.280 | 0.84 | 1.00 | 0.332 | No |
| 794 | 53.38 | 3.21 | 0.73 | 2.48 | 0.72 | 0.381 | 1.36 | 0.280 | 0.84 | 1.00 | 0.332 | No |
| 795 | 53.42 | 3.21 | 0.73 | 2.48 | 0.72 | 0.381 | 1.36 | 0.280 | 0.84 | 1.00 | 0.332 | No |
| 796 | 53.47 | 3.22 | 0.73 | 2.48 | 0.72 | 0.381 | 1.36 | 0.280 | 0.84 | 1.00 | 0.332 | No |
| 797 | 53.52 | 3.22 | 0.73 | 2.49 | 0.72 | 0.381 | 1.36 | 0.280 | 0.84 | 1.00 | 0.332 | No |
| 798 | 53.58 | 3.22 | 0.74 | 2.49 | 0.72 | 0.380 | 1.36 | 0.280 | 0.84 | 1.00 | 0.332 | No |
| 799 | 53.66 | 3.23 | 0.74 | 2.49 | 0.72 | 0.380 | 1.36 | 0.280 | 0.84 | 1.00 | 0.332 | No |
| 800 | 53.75 | 3.23 | 0.74 | 2.49 | 0.72 | 0.380 | 1.36 | 0.279 | 0.84 | 1.00 | 0.332 | No |
| 801 | 53.81 | 3.24 | 0.74 | 2.50 | 0.71 | 0.380 | 1.36 | 0.279 | 0.84 | 1.00 | 0.332 | No |
| 802 | 53.87 | 3.24 | 0.74 | 2.50 | 0.71 | 0.380 | 1.36 | 0.279 | 0.84 | 1.00 | 0.331 | No |
| 803 | 53.95 | 3.25 | 0.75 | 2.50 | 0.71 | 0.379 | 1.36 | 0.279 | 0.84 | 1.00 | 0.331 | No |
| 804 | 54.01 | 3.25 | 0.75 | 2.50 | 0.71 | 0.379 | 1.36 | 0.279 | 0.84 | 1.00 | 0.331 | No |
| 805 | 54.06 | 3.26 | 0.75 | 2.50 | 0.71 | 0.379 | 1.36 | 0.279 | 0.84 | 1.00 | 0.331 | No |
| 806 | 54.15 | 3.26 | 0.75 | 2.51 | 0.71 | 0.379 | 1.36 | 0.279 | 0.84 | 1.00 | 0.331 | No |
| 807 | 54.20 | 3.26 | 0.76 | 2.51 | 0.71 | 0.379 | 1.36 | 0.278 | 0.84 | 1.00 | 0.331 | No |
| 808 | 54.29 | 3.27 | 0.76 | 2.51 | 0.71 | 0.379 | 1.36 | 0.278 | 0.84 | 1.00 | 0.331 | No |
| 809 | 54.34 | 3.27 | 0.76 | 2.51 | 0.71 | 0.378 | 1.36 | 0.278 | 0.84 | 1.00 | 2.000 | Yes |
| 810 | 54.43 | 3.28 | 0.76 | 2.52 | 0.71 | 0.378 | 1.36 | 0.278 | 0.84 | 1.00 | 2.000 | Yes |
| 811 | 54.45 | 3.28 | 0.76 | 2.52 | 0.71 | 0.378 | 1.36 | 0.278 | 0.84 | 1.00 | 2.000 | Yes |
| 812 | 54.48 | 3.28 | 0.76 | 2.52 | 0.71 | 0.378 | 1.36 | 0.278 | 0.84 | 1.00 | 2.000 | Yes |
| 813 | 54.52 | 3.28 | 0.76 | 2.52 | 0.71 | 0.378 | 1.36 | 0.278 | 0.84 | 1.00 | 2.000 | Yes |
| 814 | 54.53 | 3.29 | 0.77 | 2.52 | 0.71 | 0.378 | 1.36 | 0.278 | 0.84 | 1.00 | 2.000 | Yes |
| 815 | 54.58 | 3.29 | 0.77 | 2.52 | 0.71 | 0.378 | 1.36 | 0.278 | 0.84 | 1.00 | 0.330 | No |
| 816 | 54.62 | 3.29 | 0.77 | 2.52 | 0.71 | 0.378 | 1.36 | 0.278 | 0.84 | 1.00 | 0.330 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 817 | 54.65 | 3.29 | 0.77 | 2.52 | 0.71 | 0.378 | 1.36 | 0.278 | 0.84 | 1.00 | 0.330 | No |
| 818 | 54.70 | 3.30 | 0.77 | 2.53 | 0.71 | 0.377 | 1.36 | 0.277 | 0.84 | 1.00 | 0.330 | No |
| 819 | 54.76 | 3.30 | 0.77 | 2.53 | 0.71 | 0.377 | 1.36 | 0.277 | 0.84 | 1.00 | 0.330 | No |
| 820 | 54.77 | 3.30 | 0.77 | 2.53 | 0.71 | 0.377 | 1.36 | 0.277 | 0.84 | 1.00 | 0.330 | No |
| 821 | 54.82 | 3.30 | 0.77 | 2.53 | 0.71 | 0.377 | 1.36 | 0.277 | 0.84 | 1.00 | 0.330 | No |
| 822 | 54.87 | 3.31 | 0.78 | 2.53 | 0.70 | 0.377 | 1.36 | 0.277 | 0.84 | 1.00 | 0.330 | No |
| 823 | 54.88 | 3.31 | 0.78 | 2.53 | 0.70 | 0.377 | 1.36 | 0.277 | 0.84 | 1.00 | 0.330 | No |
| 824 | 54.91 | 3.31 | 0.78 | 2.53 | 0.70 | 0.377 | 1.36 | 0.277 | 0.84 | 1.00 | 0.330 | No |
| 825 | 54.96 | 3.31 | 0.78 | 2.53 | 0.70 | 0.377 | 1.36 | 0.277 | 0.84 | 1.00 | 0.330 | No |
| 826 | 54.97 | 3.31 | 0.78 | 2.53 | 0.70 | 0.377 | 1.36 | 0.277 | 0.84 | 1.00 | 0.330 | No |
| 827 | 55.03 | 3.32 | 0.78 | 2.54 | 0.70 | 0.377 | 1.36 | 0.277 | 0.84 | 1.00 | 0.330 | No |
| 828 | 55.09 | 3.32 | 0.78 | 2.54 | 0.70 | 0.376 | 1.36 | 0.277 | 0.84 | 1.00 | 0.330 | No |
| 829 | 55.15 | 3.33 | 0.78 | 2.54 | 0.70 | 0.376 | 1.36 | 0.277 | 0.84 | 1.00 | 0.330 | No |
| 830 | 55.20 | 3.33 | 0.79 | 2.54 | 0.70 | 0.376 | 1.36 | 0.276 | 0.84 | 1.00 | 0.329 | No |
| 831 | 55.25 | 3.33 | 0.79 | 2.54 | 0.70 | 0.376 | 1.36 | 0.276 | 0.84 | 1.00 | 0.329 | No |
| 832 | 55.30 | 3.34 | 0.79 | 2.55 | 0.70 | 0.376 | 1.36 | 0.276 | 0.84 | 1.00 | 0.329 | No |
| 833 | 55.34 | 3.34 | 0.79 | 2.55 | 0.70 | 0.376 | 1.36 | 0.276 | 0.84 | 1.00 | 0.329 | No |
| 834 | 55.39 | 3.34 | 0.79 | 2.55 | 0.70 | 0.376 | 1.36 | 0.276 | 0.84 | 1.00 | 0.329 | No |
| 835 | 55.40 | 3.34 | 0.79 | 2.55 | 0.70 | 0.376 | 1.36 | 0.276 | 0.84 | 1.00 | 0.329 | No |
| 836 | 55.44 | 3.34 | 0.79 | 2.55 | 0.70 | 0.375 | 1.36 | 0.276 | 0.84 | 1.00 | 0.329 | No |
| 837 | 55.44 | 3.35 | 0.79 | 2.55 | 0.70 | 0.375 | 1.36 | 0.276 | 0.84 | 1.00 | 0.329 | No |
| 838 | 55.49 | 3.35 | 0.80 | 2.55 | 0.70 | 0.375 | 1.36 | 0.276 | 0.84 | 1.00 | 0.329 | No |
| 839 | 55.54 | 3.35 | 0.80 | 2.56 | 0.70 | 0.375 | 1.36 | 0.276 | 0.84 | 1.00 | 0.329 | No |
| 840 | 55.59 | 3.36 | 0.80 | 2.56 | 0.70 | 0.375 | 1.36 | 0.276 | 0.84 | 1.00 | 0.329 | No |
| 841 | 55.63 | 3.36 | 0.80 | 2.56 | 0.70 | 0.375 | 1.36 | 0.276 | 0.84 | 1.00 | 0.329 | No |
| 842 | 55.64 | 3.36 | 0.80 | 2.56 | 0.70 | 0.375 | 1.36 | 0.276 | 0.84 | 1.00 | 0.329 | No |
| 843 | 55.68 | 3.36 | 0.80 | 2.56 | 0.70 | 0.375 | 1.36 | 0.276 | 0.84 | 1.00 | 0.329 | No |
| 844 | 55.69 | 3.36 | 0.80 | 2.56 | 0.70 | 0.375 | 1.36 | 0.275 | 0.84 | 1.00 | 0.329 | No |
| 845 | 55.69 | 3.36 | 0.80 | 2.56 | 0.70 | 0.375 | 1.36 | 0.275 | 0.84 | 1.00 | 0.329 | No |
| 846 | 55.71 | 3.36 | 0.80 | 2.56 | 0.70 | 0.375 | 1.36 | 0.275 | 0.84 | 1.00 | 0.329 | No |
| 847 | 55.76 | 3.37 | 0.80 | 2.56 | 0.70 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 0.329 | No |
| 848 | 55.78 | 3.37 | 0.80 | 2.56 | 0.70 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 0.329 | No |
| 849 | 55.81 | 3.37 | 0.81 | 2.57 | 0.70 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 0.329 | No |
| 850 | 55.85 | 3.37 | 0.81 | 2.57 | 0.70 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 0.328 | No |
| 851 | 55.86 | 3.37 | 0.81 | 2.57 | 0.70 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 0.328 | No |
| 852 | 55.91 | 3.38 | 0.81 | 2.57 | 0.69 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 0.328 | No |
| 853 | 55.92 | 3.38 | 0.81 | 2.57 | 0.69 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 0.328 | No |
| 854 | 55.96 | 3.38 | 0.81 | 2.57 | 0.69 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 0.328 | No |
| 855 | 55.97 | 3.38 | 0.81 | 2.57 | 0.69 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 0.328 | No |
| 856 | 56.00 | 3.38 | 0.81 | 2.57 | 0.69 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 0.328 | No |
| 857 | 56.01 | 3.38 | 0.81 | 2.57 | 0.69 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 0.328 | No |
| 858 | 56.03 | 3.39 | 0.81 | 2.57 | 0.69 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 0.328 | No |
| 859 | 56.05 | 3.39 | 0.81 | 2.57 | 0.69 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 0.328 | No |
| 860 | 56.10 | 3.39 | 0.81 | 2.58 | 0.69 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 0.328 | No |
| 861 | 56.12 | 3.39 | 0.81 | 2.58 | 0.69 | 0.373 | 1.36 | 0.275 | 0.84 | 1.00 | 0.328 | No |
| 862 | 56.16 | 3.39 | 0.82 | 2.58 | 0.69 | 0.373 | 1.36 | 0.275 | 0.84 | 1.00 | 0.328 | No |
| 863 | 56.17 | 3.40 | 0.82 | 2.58 | 0.69 | 0.373 | 1.36 | 0.274 | 0.84 | 1.00 | 0.328 | No |
| 864 | 56.20 | 3.40 | 0.82 | 2.58 | 0.69 | 0.373 | 1.36 | 0.274 | 0.84 | 1.00 | 0.328 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 865 | 56.22 | 3.40 | 0.82 | 2.58 | 0.69 | 0.373 | 1.36 | 0.274 | 0.84 | 1.00 | 0.328 | No |
| 866 | 56.24 | 3.40 | 0.82 | 2.58 | 0.69 | 0.373 | 1.36 | 0.274 | 0.84 | 1.00 | 0.328 | No |
| 867 | 56.30 | 3.40 | 0.82 | 2.58 | 0.69 | 0.373 | 1.36 | 0.274 | 0.84 | 1.00 | 0.328 | No |
| 868 | 56.31 | 3.40 | 0.82 | 2.58 | 0.69 | 0.373 | 1.36 | 0.274 | 0.84 | 1.00 | 0.328 | No |
| 869 | 56.34 | 3.41 | 0.82 | 2.59 | 0.69 | 0.373 | 1.36 | 0.274 | 0.84 | 1.00 | 0.328 | No |
| 870 | 56.39 | 3.41 | 0.82 | 2.59 | 0.69 | 0.373 | 1.36 | 0.274 | 0.84 | 1.00 | 0.328 | No |
| 871 | 56.45 | 3.41 | 0.83 | 2.59 | 0.69 | 0.373 | 1.36 | 0.274 | 0.84 | 1.00 | 0.328 | No |
| 872 | 56.48 | 3.42 | 0.83 | 2.59 | 0.69 | 0.372 | 1.36 | 0.274 | 0.84 | 1.00 | 0.328 | No |
| 873 | 56.49 | 3.42 | 0.83 | 2.59 | 0.69 | 0.372 | 1.36 | 0.274 | 0.84 | 1.00 | 0.328 | No |
| 874 | 56.53 | 3.42 | 0.83 | 2.59 | 0.69 | 0.372 | 1.36 | 0.274 | 0.84 | 1.00 | 0.327 | No |
| 875 | 56.58 | 3.42 | 0.83 | 2.59 | 0.69 | 0.372 | 1.36 | 0.274 | 0.84 | 1.00 | 0.327 | No |
| 876 | 56.63 | 3.43 | 0.83 | 2.60 | 0.69 | 0.372 | 1.36 | 0.274 | 0.84 | 1.00 | 0.327 | No |
| 877 | 56.68 | 3.43 | 0.83 | 2.60 | 0.69 | 0.372 | 1.36 | 0.273 | 0.84 | 1.00 | 0.327 | No |
| 878 | 56.73 | 3.43 | 0.83 | 2.60 | 0.69 | 0.372 | 1.36 | 0.273 | 0.84 | 1.00 | 0.327 | No |
| 879 | 56.78 | 3.44 | 0.84 | 2.60 | 0.69 | 0.372 | 1.36 | 0.273 | 0.84 | 1.00 | 0.327 | No |
| 880 | 56.83 | 3.44 | 0.84 | 2.60 | 0.69 | 0.372 | 1.36 | 0.273 | 0.84 | 1.00 | 0.327 | No |
| 881 | 56.89 | 3.44 | 0.84 | 2.61 | 0.69 | 0.371 | 1.36 | 0.273 | 0.84 | 1.00 | 0.327 | No |
| 882 | 56.95 | 3.45 | 0.84 | 2.61 | 0.69 | 0.371 | 1.36 | 0.273 | 0.83 | 1.00 | 0.327 | No |
| 883 | 56.99 | 3.45 | 0.84 | 2.61 | 0.68 | 0.371 | 1.36 | 0.273 | 0.83 | 1.00 | 0.327 | No |
| 884 | 57.01 | 3.45 | 0.84 | 2.61 | 0.68 | 0.371 | 1.36 | 0.273 | 0.83 | 1.00 | 0.327 | No |
| 885 | 57.04 | 3.45 | 0.84 | 2.61 | 0.68 | 0.371 | 1.36 | 0.273 | 0.83 | 1.00 | 0.327 | No |
| 886 | 57.09 | 3.46 | 0.85 | 2.61 | 0.68 | 0.371 | 1.36 | 0.273 | 0.83 | 1.00 | 0.327 | No |
| 887 | 57.11 | 3.46 | 0.85 | 2.61 | 0.68 | 0.371 | 1.36 | 0.273 | 0.83 | 1.00 | 0.327 | No |
| 888 | 57.13 | 3.46 | 0.85 | 2.61 | 0.68 | 0.371 | 1.36 | 0.273 | 0.83 | 1.00 | 0.327 | No |
| 889 | 57.18 | 3.46 | 0.85 | 2.62 | 0.68 | 0.371 | 1.36 | 0.272 | 0.83 | 1.00 | 0.326 | No |
| 890 | 57.19 | 3.46 | 0.85 | 2.62 | 0.68 | 0.371 | 1.36 | 0.272 | 0.83 | 1.00 | 0.326 | No |
| 891 | 57.21 | 3.47 | 0.85 | 2.62 | 0.68 | 0.370 | 1.36 | 0.272 | 0.83 | 1.00 | 0.326 | No |
| 892 | 57.24 | 3.47 | 0.85 | 2.62 | 0.68 | 0.370 | 1.36 | 0.272 | 0.83 | 1.00 | 0.326 | No |
| 893 | 57.28 | 3.47 | 0.85 | 2.62 | 0.68 | 0.370 | 1.36 | 0.272 | 0.83 | 1.00 | 0.326 | No |
| 894 | 57.32 | 3.47 | 0.85 | 2.62 | 0.68 | 0.370 | 1.36 | 0.272 | 0.83 | 1.00 | 0.326 | No |
| 895 | 57.35 | 3.48 | 0.85 | 2.62 | 0.68 | 0.370 | 1.36 | 0.272 | 0.83 | 1.00 | 0.326 | No |
| 896 | 57.38 | 3.48 | 0.85 | 2.62 | 0.68 | 0.370 | 1.36 | 0.272 | 0.83 | 1.00 | 0.326 | No |
| 897 | 57.43 | 3.48 | 0.86 | 2.63 | 0.68 | 0.370 | 1.36 | 0.272 | 0.83 | 1.00 | 0.326 | No |
| 898 | 57.48 | 3.48 | 0.86 | 2.63 | 0.68 | 0.370 | 1.36 | 0.272 | 0.83 | 1.00 | 0.326 | No |
| 899 | 57.52 | 3.49 | 0.86 | 2.63 | 0.68 | 0.370 | 1.36 | 0.272 | 0.83 | 1.00 | 0.326 | No |
| 900 | 57.57 | 3.49 | 0.86 | 2.63 | 0.68 | 0.369 | 1.36 | 0.272 | 0.83 | 1.00 | 0.326 | No |
| 901 | 57.62 | 3.49 | 0.86 | 2.63 | 0.68 | 0.369 | 1.36 | 0.272 | 0.83 | 1.00 | 0.326 | No |
| 902 | 57.68 | 3.50 | 0.86 | 2.63 | 0.68 | 0.369 | 1.36 | 0.271 | 0.83 | 1.00 | 0.326 | No |
| 903 | 57.76 | 3.50 | 0.87 | 2.64 | 0.68 | 0.369 | 1.36 | 0.271 | 0.83 | 1.00 | 0.326 | No |
| 904 | 57.81 | 3.51 | 0.87 | 2.64 | 0.68 | 0.369 | 1.36 | 0.271 | 0.83 | 1.00 | 0.326 | No |
| 905 | 57.86 | 3.51 | 0.87 | 2.64 | 0.68 | 0.369 | 1.36 | 0.271 | 0.83 | 1.00 | 0.325 | No |
| 906 | 57.89 | 3.51 | 0.87 | 2.64 | 0.68 | 0.369 | 1.36 | 0.271 | 0.83 | 1.00 | 0.325 | No |
| 907 | 57.91 | 3.51 | 0.87 | 2.64 | 0.68 | 0.369 | 1.36 | 0.271 | 0.83 | 1.00 | 0.325 | No |
| 908 | 57.92 | 3.51 | 0.87 | 2.64 | 0.68 | 0.368 | 1.36 | 0.271 | 0.83 | 1.00 | 0.325 | No |
| 909 | 57.95 | 3.52 | 0.87 | 2.64 | 0.68 | 0.368 | 1.36 | 0.271 | 0.83 | 1.00 | 0.325 | No |
| 910 | 57.99 | 3.52 | 0.87 | 2.65 | 0.68 | 0.368 | 1.36 | 0.271 | 0.83 | 1.00 | 0.325 | No |
| 911 | 58.01 | 3.52 | 0.87 | 2.65 | 0.68 | 0.368 | 1.36 | 0.271 | 0.83 | 1.00 | 0.325 | No |
| 912 | 58.05 | 3.52 | 0.88 | 2.65 | 0.68 | 0.368 | 1.36 | 0.271 | 0.83 | 1.00 | 0.325 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 913 | 58.05 | 3.52 | 0.88 | 2.65 | 0.68 | 0.368 | 1.36 | 0.271 | 0.83 | 1.00 | 0.325 | No |
| 914 | 58.10 | 3.53 | 0.88 | 2.65 | 0.68 | 0.368 | 1.36 | 0.271 | 0.83 | 1.00 | 0.325 | No |
| 915 | 58.13 | 3.53 | 0.88 | 2.65 | 0.67 | 0.368 | 1.36 | 0.270 | 0.83 | 1.00 | 0.325 | No |
| 916 | 58.15 | 3.53 | 0.88 | 2.65 | 0.67 | 0.368 | 1.36 | 0.270 | 0.83 | 1.00 | 0.325 | No |
| 917 | 58.17 | 3.53 | 0.88 | 2.65 | 0.67 | 0.368 | 1.36 | 0.270 | 0.83 | 1.00 | 0.325 | No |
| 918 | 58.20 | 3.53 | 0.88 | 2.65 | 0.67 | 0.368 | 1.36 | 0.270 | 0.83 | 1.00 | 0.325 | No |
| 919 | 58.21 | 3.53 | 0.88 | 2.65 | 0.67 | 0.368 | 1.36 | 0.270 | 0.83 | 1.00 | 0.325 | No |
| 920 | 58.21 | 3.53 | 0.88 | 2.65 | 0.67 | 0.368 | 1.36 | 0.270 | 0.83 | 1.00 | 0.325 | No |
| 921 | 58.23 | 3.54 | 0.88 | 2.65 | 0.67 | 0.368 | 1.36 | 0.270 | 0.83 | 1.00 | 0.325 | No |
| 922 | 58.24 | 3.54 | 0.88 | 2.66 | 0.67 | 0.368 | 1.36 | 0.270 | 0.83 | 1.00 | 0.325 | No |
| 923 | 58.25 | 3.54 | 0.88 | 2.66 | 0.67 | 0.368 | 1.36 | 0.270 | 0.83 | 1.00 | 0.325 | No |
| 924 | 58.29 | 3.54 | 0.88 | 2.66 | 0.67 | 0.367 | 1.36 | 0.270 | 0.83 | 1.00 | 0.325 | No |
| 925 | 58.31 | 3.54 | 0.88 | 2.66 | 0.67 | 0.367 | 1.36 | 0.270 | 0.83 | 1.00 | 0.325 | No |
| 926 | 58.33 | 3.54 | 0.88 | 2.66 | 0.67 | 0.367 | 1.36 | 0.270 | 0.83 | 1.00 | 0.325 | No |
| 927 | 58.38 | 3.55 | 0.89 | 2.66 | 0.67 | 0.367 | 1.36 | 0.270 | 0.83 | 1.00 | 0.325 | No |
| 928 | 58.39 | 3.55 | 0.89 | 2.66 | 0.67 | 0.367 | 1.36 | 0.270 | 0.83 | 1.00 | 0.325 | No |
| 929 | 58.43 | 3.55 | 0.89 | 2.66 | 0.67 | 0.367 | 1.36 | 0.270 | 0.83 | 1.00 | 0.325 | No |
| 930 | 58.43 | 3.55 | 0.89 | 2.66 | 0.67 | 0.367 | 1.36 | 0.270 | 0.83 | 1.00 | 0.325 | No |
| 931 | 58.48 | 3.55 | 0.89 | 2.66 | 0.67 | 0.367 | 1.36 | 0.270 | 0.83 | 1.00 | 0.324 | No |
| 932 | 58.53 | 3.56 | 0.89 | 2.67 | 0.67 | 0.367 | 1.36 | 0.270 | 0.83 | 1.00 | 0.324 | No |
| 933 | 58.56 | 3.56 | 0.89 | 2.67 | 0.67 | 0.367 | 1.36 | 0.270 | 0.83 | 1.00 | 0.324 | No |
| 934 | 58.58 | 3.56 | 0.89 | 2.67 | 0.67 | 0.367 | 1.36 | 0.270 | 0.83 | 1.00 | 0.324 | No |
| 935 | 58.59 | 3.56 | 0.89 | 2.67 | 0.67 | 0.367 | 1.36 | 0.270 | 0.83 | 1.00 | 0.324 | No |
| 936 | 58.63 | 3.56 | 0.89 | 2.67 | 0.67 | 0.367 | 1.36 | 0.270 | 0.83 | 1.00 | 0.324 | No |
| 937 | 58.63 | 3.56 | 0.89 | 2.67 | 0.67 | 0.367 | 1.36 | 0.270 | 0.83 | 1.00 | 0.324 | No |
| 938 | 58.63 | 3.56 | 0.89 | 2.67 | 0.67 | 0.367 | 1.36 | 0.269 | 0.83 | 1.00 | 0.324 | No |
| 939 | 58.68 | 3.57 | 0.89 | 2.67 | 0.67 | 0.366 | 1.36 | 0.269 | 0.83 | 1.00 | 0.324 | No |
| 940 | 58.69 | 3.57 | 0.90 | 2.67 | 0.67 | 0.366 | 1.36 | 0.269 | 0.83 | 1.00 | 0.324 | No |
| 941 | 58.72 | 3.57 | 0.90 | 2.67 | 0.67 | 0.366 | 1.36 | 0.269 | 0.83 | 1.00 | 0.324 | No |
| 942 | 58.73 | 3.57 | 0.90 | 2.67 | 0.67 | 0.366 | 1.36 | 0.269 | 0.83 | 1.00 | 0.324 | No |
| 943 | 58.74 | 3.57 | 0.90 | 2.67 | 0.67 | 0.366 | 1.36 | 0.269 | 0.83 | 1.00 | 0.324 | No |
| 944 | 58.77 | 3.57 | 0.90 | 2.67 | 0.67 | 0.366 | 1.36 | 0.269 | 0.83 | 1.00 | 0.324 | No |
| 945 | 58.81 | 3.57 | 0.90 | 2.68 | 0.67 | 0.366 | 1.36 | 0.269 | 0.83 | 1.00 | 0.324 | No |
| 946 | 58.82 | 3.57 | 0.90 | 2.68 | 0.67 | 0.366 | 1.36 | 0.269 | 0.83 | 1.00 | 0.324 | No |
| 947 | 58.83 | 3.58 | 0.90 | 2.68 | 0.67 | 0.366 | 1.36 | 0.269 | 0.83 | 1.00 | 0.324 | No |
| 948 | 58.87 | 3.58 | 0.90 | 2.68 | 0.67 | 0.366 | 1.36 | 0.269 | 0.83 | 1.00 | 0.324 | No |
| 949 | 58.91 | 3.58 | 0.90 | 2.68 | 0.67 | 0.366 | 1.36 | 0.269 | 0.83 | 1.00 | 0.324 | No |
| 950 | 58.92 | 3.58 | 0.90 | 2.68 | 0.67 | 0.366 | 1.36 | 0.269 | 0.83 | 1.00 | 0.324 | No |
| 951 | 58.93 | 3.58 | 0.90 | 2.68 | 0.67 | 0.366 | 1.36 | 0.269 | 0.83 | 1.00 | 0.324 | No |
| 952 | 58.96 | 3.58 | 0.90 | 2.68 | 0.67 | 0.366 | 1.36 | 0.269 | 0.83 | 1.00 | 0.324 | No |
| 953 | 59.01 | 3.59 | 0.91 | 2.68 | 0.67 | 0.366 | 1.36 | 0.269 | 0.83 | 1.00 | 0.324 | No |
| 954 | 59.06 | 3.59 | 0.91 | 2.68 | 0.67 | 0.365 | 1.36 | 0.269 | 0.83 | 1.00 | 0.324 | No |
| 955 | 59.08 | 3.59 | 0.91 | 2.69 | 0.67 | 0.365 | 1.36 | 0.269 | 0.83 | 1.00 | 0.324 | No |
| 956 | 59.11 | 3.59 | 0.91 | 2.69 | 0.67 | 0.365 | 1.36 | 0.269 | 0.83 | 1.00 | 0.324 | No |
| 957 | 59.15 | 3.60 | 0.91 | 2.69 | 0.67 | 0.365 | 1.36 | 0.268 | 0.83 | 1.00 | 0.323 | No |
| 958 | 59.21 | 3.60 | 0.91 | 2.69 | 0.67 | 0.365 | 1.36 | 0.268 | 0.83 | 1.00 | 0.323 | No |
| 959 | 59.26 | 3.60 | 0.91 | 2.69 | 0.67 | 0.365 | 1.36 | 0.268 | 0.83 | 1.00 | 0.323 | No |
| 960 | 59.30 | 3.61 | 0.91 | 2.69 | 0.66 | 0.365 | 1.36 | 0.268 | 0.83 | 1.00 | 0.323 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 961 | 59.35 | 3.61 | 0.92 | 2.70 | 0.66 | 0.365 | 1.36 | 0.268 | 0.83 | 1.00 | 0.323 | No |
| 962 | 59.40 | 3.61 | 0.92 | 2.70 | 0.66 | 0.364 | 1.36 | 0.268 | 0.83 | 1.00 | 0.323 | No |
| 963 | 59.42 | 3.62 | 0.92 | 2.70 | 0.66 | 0.364 | 1.36 | 0.268 | 0.83 | 1.00 | 0.323 | No |
| 964 | 59.47 | 3.62 | 0.92 | 2.70 | 0.66 | 0.364 | 1.36 | 0.268 | 0.83 | 1.00 | 0.323 | No |
| 965 | 59.51 | 3.62 | 0.92 | 2.70 | 0.66 | 0.364 | 1.36 | 0.268 | 0.83 | 1.00 | 0.323 | No |
| 966 | 59.56 | 3.63 | 0.92 | 2.70 | 0.66 | 0.364 | 1.36 | 0.268 | 0.83 | 1.00 | 0.323 | No |
| 967 | 59.61 | 3.63 | 0.92 | 2.71 | 0.66 | 0.364 | 1.36 | 0.268 | 0.83 | 1.00 | 0.323 | No |
| 968 | 59.67 | 3.63 | 0.93 | 2.71 | 0.66 | 0.364 | 1.36 | 0.267 | 0.83 | 1.00 | 0.323 | No |
| 969 | 59.71 | 3.64 | 0.93 | 2.71 | 0.66 | 0.364 | 1.36 | 0.267 | 0.83 | 1.00 | 0.323 | No |
| 970 | 59.80 | 3.64 | 0.93 | 2.71 | 0.66 | 0.363 | 1.36 | 0.267 | 0.83 | 1.00 | 0.323 | No |
| 971 | 59.85 | 3.65 | 0.93 | 2.71 | 0.66 | 0.363 | 1.36 | 0.267 | 0.83 | 1.00 | 0.322 | No |
| 972 | 59.90 | 3.65 | 0.93 | 2.72 | 0.66 | 0.363 | 1.36 | 0.267 | 0.83 | 1.00 | 0.322 | No |
| 973 | 60.00 | 3.65 | 0.94 | 2.72 | 0.66 | 0.363 | 1.36 | 0.267 | 0.83 | 1.00 | 0.322 | No |
| 974 | 60.04 | 3.66 | 0.94 | 2.72 | 0.66 | 0.363 | 1.36 | 0.267 | 0.83 | 1.00 | 0.322 | No |
| 975 | 60.10 | 3.66 | 0.94 | 2.72 | 0.66 | 0.363 | 1.36 | 0.267 | 0.83 | 1.00 | 0.322 | No |
| 976 | 60.15 | 3.67 | 0.94 | 2.72 | 0.66 | 0.362 | 1.36 | 0.267 | 0.83 | 1.00 | 0.322 | No |
| 977 | 60.19 | 3.67 | 0.94 | 2.73 | 0.66 | 0.362 | 1.36 | 0.266 | 0.83 | 1.00 | 0.322 | No |
| 978 | 60.23 | 3.67 | 0.94 | 2.73 | 0.66 | 0.362 | 1.36 | 0.266 | 0.83 | 1.00 | 0.322 | No |
| 979 | 60.28 | 3.67 | 0.94 | 2.73 | 0.66 | 0.362 | 1.36 | 0.266 | 0.83 | 1.00 | 0.322 | No |
| 980 | 60.33 | 3.68 | 0.95 | 2.73 | 0.66 | 0.362 | 1.36 | 0.266 | 0.83 | 1.00 | 0.322 | No |
| 981 | 60.38 | 3.68 | 0.95 | 2.73 | 0.66 | 0.362 | 1.36 | 0.266 | 0.83 | 1.00 | 0.322 | No |
| 982 | 60.42 | 3.68 | 0.95 | 2.73 | 0.66 | 0.362 | 1.36 | 0.266 | 0.83 | 1.00 | 0.322 | No |
| 983 | 60.44 | 3.68 | 0.95 | 2.73 | 0.66 | 0.362 | 1.36 | 0.266 | 0.83 | 1.00 | 0.322 | No |
| 984 | 60.47 | 3.69 | 0.95 | 2.74 | 0.66 | 0.362 | 1.36 | 0.266 | 0.83 | 1.00 | 0.322 | No |
| 985 | 60.52 | 3.69 | 0.95 | 2.74 | 0.66 | 0.362 | 1.36 | 0.266 | 0.83 | 1.00 | 0.321 | No |
| 986 | 60.56 | 3.69 | 0.95 | 2.74 | 0.65 | 0.361 | 1.36 | 0.266 | 0.83 | 1.00 | 0.321 | No |
| 987 | 60.57 | 3.69 | 0.95 | 2.74 | 0.65 | 0.361 | 1.36 | 0.266 | 0.83 | 1.00 | 0.321 | No |
| 988 | 60.61 | 3.70 | 0.96 | 2.74 | 0.65 | 0.361 | 1.36 | 0.266 | 0.83 | 1.00 | 0.321 | No |
| 989 | 60.66 | 3.70 | 0.96 | 2.74 | 0.65 | 0.361 | 1.36 | 0.266 | 0.83 | 1.00 | 0.321 | No |
| 990 | 60.71 | 3.70 | 0.96 | 2.74 | 0.65 | 0.361 | 1.36 | 0.265 | 0.83 | 1.00 | 0.321 | No |
| 991 | 60.76 | 3.71 | 0.96 | 2.75 | 0.65 | 0.361 | 1.36 | 0.265 | 0.83 | 1.00 | 0.321 | No |
| 992 | 60.81 | 3.71 | 0.96 | 2.75 | 0.65 | 0.361 | 1.36 | 0.265 | 0.83 | 1.00 | 0.321 | No |
| 993 | 60.86 | 3.71 | 0.96 | 2.75 | 0.65 | 0.361 | 1.36 | 0.265 | 0.83 | 1.00 | 0.321 | No |
| 994 | 60.91 | 3.72 | 0.96 | 2.75 | 0.65 | 0.361 | 1.36 | 0.265 | 0.83 | 1.00 | 0.321 | No |
| 995 | 60.95 | 3.72 | 0.97 | 2.75 | 0.65 | 0.360 | 1.36 | 0.265 | 0.83 | 1.00 | 0.321 | No |
| 996 | 61.00 | 3.72 | 0.97 | 2.76 | 0.65 | 0.360 | 1.36 | 0.265 | 0.83 | 1.00 | 0.321 | No |
| 997 | 61.02 | 3.72 | 0.97 | 2.76 | 0.65 | 0.360 | 1.36 | 0.265 | 0.83 | 1.00 | 0.321 | No |
| 998 | 61.05 | 3.73 | 0.97 | 2.76 | 0.65 | 0.360 | 1.36 | 0.265 | 0.83 | 1.00 | 0.321 | No |
| 999 | 61.08 | 3.73 | 0.97 | 2.76 | 0.65 | 0.360 | 1.36 | 0.265 | 0.83 | 1.00 | 0.321 | No |
| 1000 | 61.09 | 3.73 | 0.97 | 2.76 | 0.65 | 0.360 | 1.36 | 0.265 | 0.83 | 1.00 | 0.321 | No |
| 1001 | 61.13 | 3.73 | 0.97 | 2.76 | 0.65 | 0.360 | 1.36 | 0.265 | 0.83 | 1.00 | 0.321 | No |
| 1002 | 61.14 | 3.73 | 0.97 | 2.76 | 0.65 | 0.360 | 1.36 | 0.265 | 0.83 | 1.00 | 0.321 | No |
| 1003 | 61.16 | 3.73 | 0.97 | 2.76 | 0.65 | 0.360 | 1.36 | 0.265 | 0.83 | 1.00 | 0.321 | No |
| 1004 | 61.20 | 3.74 | 0.97 | 2.76 | 0.65 | 0.360 | 1.36 | 0.265 | 0.83 | 1.00 | 0.320 | No |
| 1005 | 61.23 | 3.74 | 0.97 | 2.76 | 0.65 | 0.360 | 1.36 | 0.264 | 0.83 | 1.00 | 0.320 | No |
| 1006 | 61.24 | 3.74 | 0.97 | 2.76 | 0.65 | 0.360 | 1.36 | 0.264 | 0.83 | 1.00 | 0.320 | No |
| 1007 | 61.29 | 3.74 | 0.98 | 2.77 | 0.65 | 0.360 | 1.36 | 0.264 | 0.83 | 1.00 | 0.320 | No |
| 1008 | 61.30 | 3.74 | 0.98 | 2.77 | 0.65 | 0.360 | 1.36 | 0.264 | 0.83 | 1.00 | 0.320 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1009 | 61.33 | 3.75 | 0.98 | 2.77 | 0.65 | 0.359 | 1.36 | 0.264 | 0.83 | 1.00 | 0.320 | No |
| 1010 | 61.38 | 3.75 | 0.98 | 2.77 | 0.65 | 0.359 | 1.36 | 0.264 | 0.82 | 1.00 | 0.320 | No |
| 1011 | 61.43 | 3.75 | 0.98 | 2.77 | 0.65 | 0.359 | 1.36 | 0.264 | 0.82 | 1.00 | 0.320 | No |
| 1012 | 61.48 | 3.76 | 0.98 | 2.77 | 0.65 | 0.359 | 1.36 | 0.264 | 0.82 | 1.00 | 0.320 | No |
| 1013 | 61.53 | 3.76 | 0.98 | 2.78 | 0.65 | 0.359 | 1.36 | 0.264 | 0.82 | 1.00 | 0.320 | No |
| 1014 | 61.56 | 3.76 | 0.98 | 2.78 | 0.65 | 0.359 | 1.36 | 0.264 | 0.82 | 1.00 | 0.320 | No |
| 1015 | 61.58 | 3.76 | 0.99 | 2.78 | 0.65 | 0.359 | 1.36 | 0.264 | 0.82 | 1.00 | 0.320 | No |
| 1016 | 61.59 | 3.76 | 0.99 | 2.78 | 0.65 | 0.359 | 1.36 | 0.264 | 0.82 | 1.00 | 0.320 | No |
| 1017 | 61.62 | 3.76 | 0.99 | 2.78 | 0.65 | 0.359 | 1.36 | 0.264 | 0.82 | 1.00 | 0.320 | No |
| 1018 | 61.63 | 3.77 | 0.99 | 2.78 | 0.65 | 0.359 | 1.36 | 0.264 | 0.82 | 1.00 | 0.320 | No |
| 1019 | 61.67 | 3.77 | 0.99 | 2.78 | 0.65 | 0.359 | 1.36 | 0.264 | 0.82 | 1.00 | 0.320 | No |
| 1020 | 61.71 | 3.77 | 0.99 | 2.78 | 0.65 | 0.358 | 1.36 | 0.264 | 0.82 | 1.00 | 0.320 | No |
| 1021 | 61.76 | 3.77 | 0.99 | 2.78 | 0.65 | 0.358 | 1.36 | 0.263 | 0.82 | 1.00 | 0.320 | No |
| 1022 | 61.81 | 3.78 | 0.99 | 2.79 | 0.64 | 0.358 | 1.36 | 0.263 | 0.82 | 1.00 | 0.320 | No |
| 1023 | 61.86 | 3.78 | 0.99 | 2.79 | 0.64 | 0.358 | 1.36 | 0.263 | 0.82 | 1.00 | 0.320 | No |
| 1024 | 61.87 | 3.78 | 0.99 | 2.79 | 0.64 | 0.358 | 1.36 | 0.263 | 0.82 | 1.00 | 0.320 | No |
| 1025 | 61.91 | 3.78 | 1.00 | 2.79 | 0.64 | 0.358 | 1.36 | 0.263 | 0.82 | 1.00 | 0.319 | No |
| 1026 | 61.95 | 3.79 | 1.00 | 2.79 | 0.64 | 0.358 | 1.36 | 0.263 | 0.82 | 1.00 | 0.319 | No |
| 1027 | 61.96 | 3.79 | 1.00 | 2.79 | 0.64 | 0.358 | 1.36 | 0.263 | 0.82 | 1.00 | 0.319 | No |
| 1028 | 62.00 | 3.79 | 1.00 | 2.79 | 0.64 | 0.358 | 1.36 | 0.263 | 0.82 | 1.00 | 0.319 | No |
| 1029 | 62.04 | 3.79 | 1.00 | 2.79 | 0.64 | 0.358 | 1.36 | 0.263 | 0.82 | 1.00 | 0.319 | No |
| 1030 | 62.06 | 3.79 | 1.00 | 2.79 | 0.64 | 0.358 | 1.36 | 0.263 | 0.82 | 1.00 | 0.319 | No |
| 1031 | 62.10 | 3.80 | 1.00 | 2.80 | 0.64 | 0.358 | 1.36 | 0.263 | 0.82 | 1.00 | 0.319 | No |
| 1032 | 62.14 | 3.80 | 1.00 | 2.80 | 0.64 | 0.357 | 1.36 | 0.263 | 0.82 | 1.00 | 0.319 | No |
| 1033 | 62.20 | 3.80 | 1.00 | 2.80 | 0.64 | 0.357 | 1.36 | 0.263 | 0.82 | 1.00 | 0.319 | No |
| 1034 | 62.22 | 3.80 | 1.01 | 2.80 | 0.64 | 0.357 | 1.36 | 0.263 | 0.82 | 1.00 | 0.319 | No |
| 1035 | 62.27 | 3.81 | 1.01 | 2.80 | 0.64 | 0.357 | 1.36 | 0.263 | 0.82 | 1.00 | 0.319 | No |
| 1036 | 62.29 | 3.81 | 1.01 | 2.80 | 0.64 | 0.357 | 1.36 | 0.263 | 0.82 | 1.00 | 0.319 | No |
| 1037 | 62.34 | 3.81 | 1.01 | 2.80 | 0.64 | 0.357 | 1.36 | 0.262 | 0.82 | 1.00 | 0.319 | No |
| 1038 | 62.39 | 3.82 | 1.01 | 2.81 | 0.64 | 0.357 | 1.36 | 0.262 | 0.82 | 1.00 | 0.319 | No |
| 1039 | 62.43 | 3.82 | 1.01 | 2.81 | 0.64 | 0.357 | 1.36 | 0.262 | 0.82 | 1.00 | 0.319 | No |
| 1040 | 62.49 | 3.82 | 1.01 | 2.81 | 0.64 | 0.357 | 1.36 | 0.262 | 0.82 | 1.00 | 0.319 | No |
| 1041 | 62.57 | 3.83 | 1.02 | 2.81 | 0.64 | 0.356 | 1.36 | 0.262 | 0.82 | 1.00 | 0.319 | No |
| 1042 | 62.68 | 3.84 | 1.02 | 2.82 | 0.64 | 0.356 | 1.36 | 0.262 | 0.82 | 1.00 | 0.318 | No |
| 1043 | 62.75 | 3.84 | 1.02 | 2.82 | 0.64 | 0.356 | 1.36 | 0.262 | 0.82 | 1.00 | 0.318 | No |
| 1044 | 62.87 | 3.85 | 1.03 | 2.82 | 0.64 | 0.356 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |
| 1045 | 62.88 | 3.85 | 1.03 | 2.82 | 0.64 | 0.356 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |
| 1046 | 62.89 | 3.85 | 1.03 | 2.82 | 0.64 | 0.356 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |
| 1047 | 62.93 | 3.85 | 1.03 | 2.83 | 0.64 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |
| 1048 | 62.98 | 3.86 | 1.03 | 2.83 | 0.64 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |
| 1049 | 63.02 | 3.86 | 1.03 | 2.83 | 0.64 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |
| 1050 | 63.07 | 3.86 | 1.03 | 2.83 | 0.64 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |
| 1051 | 63.12 | 3.86 | 1.03 | 2.83 | 0.64 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |
| 1052 | 63.14 | 3.86 | 1.03 | 2.83 | 0.64 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |
| 1053 | 63.17 | 3.87 | 1.03 | 2.83 | 0.63 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |
| 1054 | 63.17 | 3.87 | 1.04 | 2.83 | 0.63 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |
| 1055 | 63.20 | 3.87 | 1.04 | 2.83 | 0.63 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |
| 1056 | 63.21 | 3.87 | 1.04 | 2.83 | 0.63 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1057 | 63.23 | 3.87 | 1.04 | 2.83 | 0.63 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |
| 1058 | 63.26 | 3.87 | 1.04 | 2.83 | 0.63 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |
| 1059 | 63.28 | 3.87 | 1.04 | 2.83 | 0.63 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |
| 1060 | 63.31 | 3.87 | 1.04 | 2.83 | 0.63 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |
| 1061 | 63.32 | 3.87 | 1.04 | 2.83 | 0.63 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |
| 1062 | 63.36 | 3.87 | 1.04 | 2.83 | 0.63 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |
| 1063 | 63.40 | 3.88 | 1.04 | 2.83 | 0.63 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |

**Abbreviations**

Depth: Depth from free surface, at which CPT was performed (ft)
$\sigma_v$: Total overburden pressure at test point (tsf)
$u_0$: Water pressure at test point (tsf)
$\sigma_v'$: Effective overburden pressure based on GWT during earthquake (tsf)
$r_d$: Nonlinear shear mass factor
CSR: Cyclic Stress Ratio
MSF: Magnitude Scaling Factor
$CSR_{eq}$: CSR adjusted for M=7.5
$K_\sigma$: Effective overburden stress factor
$CSR^*$: CSR fully adjusted

**:: Cyclic Resistance Ratio (CRR) calculation data ::**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.01 | 0.00 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 2 | 0.04 | 0.00 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 3 | 0.09 | 0.00 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 4 | 0.11 | 0.00 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 5 | 0.14 | 0.00 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 6 | 0.14 | 1.35 | 3.66 | 4.59 | 1.00 | 2.15 | 27.82 | 59.81 | 4.000 | No | Yes | 2.00 |
| 7 | 0.18 | 6.97 | 2.69 | 0.89 | 0.81 | 11.19 | 4.58 | 51.24 | 4.000 | No | Yes | 2.00 |
| 8 | 0.23 | 18.19 | 2.14 | 0.35 | 0.65 | 29.21 | 1.00 | 29.21 | 4.000 | No | No | 2.00 |
| 9 | 0.24 | 36.79 | 1.76 | 0.18 | 0.54 | 59.09 | 1.00 | 59.09 | 4.000 | No | No | 2.00 |
| 10 | 0.28 | 53.07 | 1.58 | 0.14 | 0.50 | 85.23 | 1.00 | 85.23 | 4.000 | No | No | 2.00 |
| 11 | 0.33 | 59.27 | 1.53 | 0.14 | 0.50 | 95.19 | 1.00 | 95.19 | 4.000 | No | No | 2.00 |
| 12 | 0.38 | 56.61 | 1.60 | 0.20 | 0.50 | 90.91 | 1.00 | 90.91 | 4.000 | No | No | 2.00 |
| 13 | 0.42 | 52.11 | 1.72 | 0.34 | 0.52 | 83.69 | 1.00 | 83.69 | 4.000 | No | No | 2.00 |
| 14 | 0.47 | 51.84 | 1.83 | 0.58 | 0.56 | 83.25 | 1.19 | 98.77 | 4.000 | No | No | 2.00 |
| 15 | 0.51 | 51.94 | 1.90 | 0.76 | 0.58 | 83.40 | 1.24 | 103.16 | 4.000 | No | No | 2.00 |
| 16 | 0.52 | 52.09 | 1.93 | 0.85 | 0.59 | 83.64 | 1.26 | 104.99 | 4.000 | No | No | 2.00 |
| 17 | 0.57 | 52.66 | 1.91 | 0.81 | 0.58 | 84.56 | 1.24 | 105.20 | 4.000 | No | No | 2.00 |
| 18 | 0.61 | 53.24 | 1.89 | 0.76 | 0.58 | 85.48 | 1.23 | 105.23 | 4.000 | No | No | 2.00 |
| 19 | 0.67 | 53.47 | 1.88 | 0.73 | 0.57 | 85.85 | 1.22 | 105.00 | 4.000 | No | No | 2.00 |
| 20 | 0.73 | 53.84 | 1.87 | 0.71 | 0.57 | 86.44 | 1.22 | 105.23 | 4.000 | No | No | 2.00 |
| 21 | 0.81 | 53.62 | 1.87 | 0.71 | 0.57 | 86.08 | 1.22 | 104.72 | 4.000 | No | No | 2.00 |
| 22 | 0.86 | 53.52 | 1.92 | 0.84 | 0.58 | 85.91 | 1.25 | 107.16 | 4.000 | No | No | 2.00 |
| 23 | 0.98 | 52.14 | 1.96 | 0.96 | 0.60 | 83.69 | 1.28 | 106.78 | 4.000 | No | No | 2.00 |
| 24 | 1.05 | 48.22 | 2.02 | 1.08 | 0.61 | 77.37 | 1.32 | 102.42 | 4.000 | No | No | 2.00 |
| 25 | 1.15 | 43.67 | 2.04 | 1.03 | 0.62 | 70.05 | 1.34 | 94.07 | 4.000 | No | No | 2.00 |
| 26 | 1.24 | 37.87 | 2.07 | 0.96 | 0.63 | 60.73 | 1.38 | 83.84 | 4.000 | No | No | 2.00 |
| 27 | 1.34 | 34.47 | 2.09 | 0.89 | 0.63 | 55.26 | 1.40 | 77.37 | 4.000 | No | No | 2.00 |
| 28 | 1.43 | 30.63 | 2.16 | 0.99 | 0.65 | 49.08 | 1.51 | 74.33 | 4.000 | No | No | 2.00 |
| 29 | 1.53 | 26.86 | 2.25 | 1.20 | 0.68 | 43.01 | 1.75 | 75.37 | 4.000 | No | No | 2.00 |
| 30 | 1.58 | 24.56 | 2.31 | 1.36 | 0.70 | 39.32 | 1.98 | 77.68 | 4.000 | No | No | 2.00 |
| 31 | 1.62 | 23.48 | 2.32 | 1.31 | 0.70 | 37.59 | 2.00 | 75.15 | 4.000 | No | No | 2.00 |
| 32 | 1.67 | 24.36 | 2.28 | 1.18 | 0.69 | 38.99 | 1.85 | 72.19 | 4.000 | No | No | 2.00 |
| 33 | 1.75 | 23.89 | 2.28 | 1.15 | 0.69 | 38.23 | 1.86 | 70.99 | 4.000 | No | No | 2.00 |
| 34 | 1.77 | 23.08 | 2.30 | 1.17 | 0.70 | 36.93 | 1.92 | 70.79 | 4.000 | No | No | 2.00 |
| 35 | 1.81 | 21.50 | 2.34 | 1.25 | 0.71 | 34.38 | 2.08 | 71.55 | 4.000 | No | No | 2.00 |
| 36 | 1.86 | 19.71 | 2.39 | 1.32 | 0.72 | 31.51 | 2.30 | 72.37 | 4.000 | No | No | 2.00 |
| 37 | 1.91 | 17.96 | 2.43 | 1.37 | 0.74 | 28.69 | 2.52 | 72.24 | 4.000 | No | No | 2.00 |
| 38 | 1.95 | 16.98 | 2.43 | 1.26 | 0.74 | 27.11 | 2.53 | 68.54 | 4.000 | No | No | 2.00 |
| 39 | 2.00 | 16.21 | 2.41 | 1.09 | 0.73 | 25.86 | 2.43 | 62.85 | 4.000 | No | No | 2.00 |
| 40 | 2.05 | 14.89 | 2.41 | 0.93 | 0.73 | 23.75 | 2.42 | 57.52 | 4.000 | Yes | No | 2.00 |
| 41 | 2.11 | 13.51 | 2.43 | 0.88 | 0.74 | 21.52 | 2.55 | 54.95 | 4.000 | Yes | No | 2.00 |
| 42 | 2.20 | 12.33 | 2.47 | 0.89 | 0.75 | 19.62 | 2.79 | 54.76 | 4.000 | Yes | No | 2.00 |
| 43 | 2.24 | 11.73 | 2.50 | 0.95 | 0.76 | 18.64 | 3.01 | 56.15 | 4.000 | Yes | No | 2.00 |
| 44 | 2.29 | 11.26 | 2.54 | 1.06 | 0.77 | 17.88 | 3.29 | 58.85 | 4.000 | Yes | No | 2.00 |
| 45 | 2.34 | 11.32 | 2.60 | 1.39 | 0.79 | 17.99 | 3.76 | 67.59 | 4.000 | Yes | Yes | 2.00 |
| 46 | 2.44 | 12.17 | 2.61 | 1.64 | 0.79 | 19.33 | 3.86 | 74.63 | 4.000 | Yes | Yes | 2.00 |
| 47 | 2.48 | 14.56 | 2.56 | 1.73 | 0.78 | 23.17 | 3.43 | 79.44 | 4.000 | Yes | No | 2.00 |
| 48 | 2.58 | 18.03 | 2.47 | 1.60 | 0.75 | 28.74 | 2.75 | 79.05 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 49 | 2.63 | 22.41 | 2.37 | 1.48 | 0.72 | 35.77 | 2.21 | 79.01 | 4.000 | Yes | No | 2.00 |
| 50 | 2.71 | 26.08 | 2.30 | 1.39 | 0.70 | 41.66 | 1.92 | 80.03 | 4.000 | Yes | No | 2.00 |
| 51 | 2.78 | 30.33 | 2.22 | 1.27 | 0.67 | 48.48 | 1.67 | 80.89 | 4.000 | Yes | No | 2.00 |
| 52 | 2.82 | 33.73 | 2.16 | 1.16 | 0.66 | 53.95 | 1.52 | 82.21 | 4.000 | Yes | No | 2.00 |
| 53 | 2.89 | 34.94 | 2.13 | 1.09 | 0.65 | 55.89 | 1.47 | 82.24 | 4.000 | Yes | No | 2.00 |
| 54 | 2.96 | 33.63 | 2.16 | 1.13 | 0.65 | 53.77 | 1.51 | 81.39 | 4.000 | No | No | 2.00 |
| 55 | 3.03 | 30.90 | 2.20 | 1.21 | 0.67 | 49.37 | 1.62 | 80.00 | 4.000 | No | No | 2.00 |
| 56 | 3.11 | 28.98 | 2.23 | 1.23 | 0.68 | 46.28 | 1.70 | 78.46 | 4.000 | No | No | 2.00 |
| 57 | 3.19 | 26.45 | 2.26 | 1.23 | 0.69 | 42.22 | 1.79 | 75.65 | 4.000 | No | No | 2.00 |
| 58 | 3.25 | 23.52 | 2.31 | 1.27 | 0.70 | 37.50 | 1.97 | 73.87 | 4.000 | No | No | 2.00 |
| 59 | 3.35 | 20.49 | 2.38 | 1.38 | 0.72 | 32.62 | 2.28 | 74.42 | 4.000 | No | No | 2.00 |
| 60 | 3.41 | 17.79 | 2.44 | 1.42 | 0.74 | 28.29 | 2.60 | 73.49 | 4.000 | No | No | 2.00 |
| 61 | 3.50 | 15.91 | 2.46 | 1.31 | 0.75 | 25.25 | 2.74 | 69.10 | 4.000 | No | No | 2.00 |
| 62 | 3.59 | 14.83 | 2.45 | 1.11 | 0.74 | 23.51 | 2.66 | 62.63 | 4.000 | No | No | 2.00 |
| 63 | 3.69 | 14.59 | 2.43 | 0.99 | 0.74 | 23.12 | 2.55 | 58.90 | 4.000 | No | No | 2.00 |
| 64 | 3.79 | 15.20 | 2.39 | 0.89 | 0.73 | 24.09 | 2.35 | 56.48 | 4.000 | No | No | 2.00 |
| 65 | 3.88 | 16.54 | 2.34 | 0.81 | 0.71 | 26.24 | 2.09 | 54.78 | 4.000 | No | No | 2.00 |
| 66 | 3.97 | 19.14 | 2.27 | 0.75 | 0.69 | 30.40 | 1.82 | 55.25 | 4.000 | No | No | 2.00 |
| 67 | 4.07 | 20.82 | 2.26 | 0.82 | 0.68 | 33.10 | 1.77 | 58.69 | 4.000 | No | No | 2.00 |
| 68 | 4.14 | 23.49 | 2.22 | 0.86 | 0.67 | 37.37 | 1.67 | 62.38 | 4.000 | No | No | 2.00 |
| 69 | 4.17 | 25.51 | 2.20 | 0.89 | 0.67 | 40.62 | 1.61 | 65.25 | 4.000 | No | No | 2.00 |
| 70 | 4.26 | 28.14 | 2.15 | 0.86 | 0.65 | 44.83 | 1.51 | 67.83 | 4.000 | No | No | 2.00 |
| 71 | 4.32 | 28.71 | 2.16 | 0.90 | 0.66 | 45.74 | 1.52 | 69.43 | 4.000 | No | No | 2.00 |
| 72 | 4.37 | 28.10 | 2.18 | 0.95 | 0.66 | 44.77 | 1.56 | 69.94 | 4.000 | No | No | 2.00 |
| 73 | 4.42 | 26.62 | 2.21 | 1.02 | 0.67 | 42.38 | 1.65 | 69.93 | 4.000 | No | No | 2.00 |
| 74 | 4.51 | 25.07 | 2.24 | 1.05 | 0.68 | 39.88 | 1.74 | 69.30 | 4.000 | No | No | 2.00 |
| 75 | 4.61 | 23.68 | 2.27 | 1.07 | 0.69 | 37.65 | 1.82 | 68.42 | 4.000 | No | No | 2.00 |
| 76 | 4.65 | 22.37 | 2.29 | 1.08 | 0.70 | 35.53 | 1.90 | 67.38 | 4.000 | No | No | 2.00 |
| 77 | 4.74 | 21.09 | 2.32 | 1.11 | 0.70 | 33.47 | 2.00 | 67.06 | 4.000 | No | No | 2.00 |
| 78 | 4.80 | 20.48 | 2.33 | 1.11 | 0.71 | 32.49 | 2.05 | 66.55 | 4.000 | No | No | 2.00 |
| 79 | 4.89 | 20.04 | 2.34 | 1.12 | 0.71 | 31.78 | 2.09 | 66.46 | 4.000 | No | No | 2.00 |
| 80 | 4.95 | 20.38 | 2.33 | 1.10 | 0.71 | 32.32 | 2.05 | 66.20 | 4.000 | No | No | 2.00 |
| 81 | 5.04 | 21.05 | 2.31 | 1.07 | 0.70 | 33.39 | 1.97 | 65.92 | 4.000 | No | No | 2.00 |
| 82 | 5.13 | 22.81 | 2.27 | 0.99 | 0.69 | 36.20 | 1.80 | 65.26 | 4.000 | No | No | 2.00 |
| 83 | 5.18 | 25.27 | 2.20 | 0.90 | 0.67 | 40.14 | 1.63 | 65.28 | 4.000 | No | No | 2.00 |
| 84 | 5.28 | 28.07 | 2.14 | 0.82 | 0.65 | 44.63 | 1.49 | 66.64 | 4.000 | No | No | 2.00 |
| 85 | 5.32 | 31.47 | 2.09 | 0.76 | 0.63 | 50.09 | 1.40 | 70.04 | 4.000 | No | No | 2.00 |
| 86 | 5.42 | 34.67 | 2.05 | 0.75 | 0.62 | 55.23 | 1.35 | 74.62 | 4.000 | No | No | 2.00 |
| 87 | 5.51 | 38.14 | 2.01 | 0.74 | 0.61 | 60.80 | 1.31 | 79.86 | 4.000 | No | No | 2.00 |
| 88 | 5.60 | 41.28 | 1.94 | 0.63 | 0.59 | 65.83 | 1.26 | 83.18 | 4.000 | No | No | 2.00 |
| 89 | 5.66 | 44.24 | 1.88 | 0.53 | 0.57 | 70.58 | 1.22 | 86.14 | 4.000 | No | No | 2.00 |
| 90 | 5.76 | 45.86 | 1.83 | 0.46 | 0.56 | 73.17 | 1.00 | 73.17 | 4.000 | No | No | 2.00 |
| 91 | 5.85 | 44.91 | 1.86 | 0.50 | 0.57 | 71.65 | 1.21 | 86.53 | 4.000 | No | No | 2.00 |
| 92 | 5.92 | 41.11 | 1.92 | 0.56 | 0.58 | 65.53 | 1.25 | 81.79 | 4.000 | No | No | 2.00 |
| 93 | 5.95 | 38.21 | 1.96 | 0.61 | 0.60 | 60.87 | 1.28 | 77.76 | 4.000 | No | No | 2.00 |
| 94 | 5.97 | 36.15 | 1.99 | 0.64 | 0.61 | 57.56 | 1.30 | 74.97 | 4.000 | No | No | 2.00 |
| 95 | 6.02 | 35.37 | 2.01 | 0.65 | 0.61 | 56.31 | 1.31 | 73.90 | 4.000 | Yes | No | 2.00 |
| 96 | 6.06 | 32.74 | 2.05 | 0.70 | 0.62 | 52.08 | 1.36 | 70.59 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97 | 6.16 | 29.98 | 2.10 | 0.76 | 0.64 | 47.63 | 1.42 | 67.87 | 4.000 | Yes | No | 2.00 |
| 98 | 6.21 | 26.98 | 2.18 | 0.88 | 0.66 | 42.82 | 1.56 | 66.83 | 4.000 | Yes | No | 2.00 |
| 99 | 6.26 | 24.29 | 2.26 | 1.07 | 0.69 | 38.48 | 1.79 | 68.74 | 4.000 | Yes | No | 2.00 |
| 100 | 6.31 | 21.62 | 2.36 | 1.35 | 0.72 | 34.19 | 2.18 | 74.63 | 4.000 | Yes | No | 2.00 |
| 101 | 6.40 | 19.23 | 2.46 | 1.68 | 0.75 | 30.34 | 2.70 | 82.06 | 4.000 | Yes | No | 2.00 |
| 102 | 6.44 | 16.91 | 2.56 | 2.09 | 0.78 | 26.60 | 3.43 | 91.18 | 4.000 | Yes | No | 2.00 |
| 103 | 6.52 | 15.12 | 2.64 | 2.48 | 0.80 | 23.73 | 4.16 | 98.65 | 4.000 | Yes | Yes | 2.00 |
| 104 | 6.57 | 13.47 | 2.73 | 2.91 | 0.83 | 21.08 | 5.01 | 105.63 | 4.000 | Yes | Yes | 2.00 |
| 105 | 6.64 | 12.16 | 2.80 | 3.29 | 0.85 | 18.96 | 5.81 | 110.19 | 4.000 | Yes | Yes | 2.00 |
| 106 | 6.69 | 10.98 | 2.86 | 3.65 | 0.87 | 17.06 | 6.65 | 113.46 | 4.000 | Yes | Yes | 2.00 |
| 107 | 6.78 | 10.34 | 2.90 | 3.84 | 0.88 | 16.02 | 7.15 | 114.49 | 4.000 | Yes | Yes | 2.00 |
| 108 | 6.83 | 9.90 | 2.91 | 3.84 | 0.88 | 15.31 | 7.38 | 112.96 | 4.000 | Yes | Yes | 2.00 |
| 109 | 6.92 | 9.60 | 2.92 | 3.75 | 0.88 | 14.82 | 7.45 | 110.37 | 4.000 | No | Yes | 2.00 |
| 110 | 6.97 | 9.39 | 2.91 | 3.59 | 0.88 | 14.48 | 7.39 | 107.07 | 4.000 | No | Yes | 2.00 |
| 111 | 7.03 | 9.29 | 2.91 | 3.50 | 0.88 | 14.32 | 7.35 | 105.27 | 4.000 | No | Yes | 2.00 |
| 112 | 7.12 | 9.32 | 2.90 | 3.42 | 0.88 | 14.36 | 7.25 | 104.07 | 4.000 | No | Yes | 2.00 |
| 113 | 7.22 | 9.39 | 2.90 | 3.38 | 0.88 | 14.46 | 7.17 | 103.64 | 4.000 | No | Yes | 2.00 |
| 114 | 7.27 | 9.52 | 2.89 | 3.37 | 0.88 | 14.66 | 7.09 | 103.89 | 4.000 | No | Yes | 2.00 |
| 115 | 7.36 | 9.65 | 2.89 | 3.41 | 0.87 | 14.86 | 7.06 | 104.93 | 4.000 | No | Yes | 2.00 |
| 116 | 7.43 | 9.75 | 2.89 | 3.48 | 0.88 | 15.01 | 7.08 | 106.34 | 4.000 | No | Yes | 2.00 |
| 117 | 7.50 | 9.78 | 2.90 | 3.56 | 0.88 | 15.06 | 7.16 | 107.82 | 4.000 | No | Yes | 2.00 |
| 118 | 7.59 | 9.77 | 2.90 | 3.61 | 0.88 | 15.04 | 7.22 | 108.69 | 4.000 | No | Yes | 2.00 |
| 119 | 7.64 | 9.70 | 2.91 | 3.69 | 0.88 | 14.93 | 7.34 | 109.64 | 4.000 | No | Yes | 2.00 |
| 120 | 7.75 | 9.63 | 2.92 | 3.75 | 0.88 | 14.81 | 7.46 | 110.40 | 4.000 | No | Yes | 2.00 |
| 121 | 7.79 | 9.70 | 2.92 | 3.76 | 0.88 | 14.91 | 7.43 | 110.74 | 4.000 | No | Yes | 2.00 |
| 122 | 7.89 | 9.97 | 2.90 | 3.67 | 0.88 | 15.33 | 7.19 | 110.22 | 4.000 | No | Yes | 2.00 |
| 123 | 7.99 | 10.24 | 2.88 | 3.59 | 0.87 | 15.76 | 6.97 | 109.89 | 4.000 | No | Yes | 2.00 |
| 124 | 8.04 | 10.34 | 2.88 | 3.62 | 0.87 | 15.91 | 6.96 | 110.71 | 4.000 | No | Yes | 2.00 |
| 125 | 8.13 | 10.31 | 2.89 | 3.67 | 0.87 | 15.85 | 7.03 | 111.39 | 4.000 | No | Yes | 2.00 |
| 126 | 8.23 | 10.27 | 2.84 | 3.03 | 0.86 | 15.79 | 6.35 | 100.23 | 4.000 | No | Yes | 2.00 |
| 127 | 8.32 | 10.27 | 2.79 | 2.55 | 0.85 | 15.77 | 5.78 | 91.18 | 4.000 | No | Yes | 2.00 |
| 128 | 8.37 | 10.53 | 2.76 | 2.28 | 0.84 | 16.20 | 5.34 | 86.47 | 4.000 | No | Yes | 2.00 |
| 129 | 8.46 | 11.04 | 2.79 | 2.79 | 0.85 | 17.00 | 5.74 | 97.61 | 4.000 | No | Yes | 2.00 |
| 130 | 8.56 | 11.30 | 2.82 | 3.16 | 0.85 | 17.42 | 6.05 | 105.35 | 4.000 | No | Yes | 2.00 |
| 131 | 8.59 | 11.30 | 2.84 | 3.44 | 0.86 | 17.41 | 6.35 | 110.51 | 4.000 | No | Yes | 2.00 |
| 132 | 8.61 | 11.03 | 2.87 | 3.69 | 0.87 | 16.97 | 6.71 | 113.97 | 4.000 | No | Yes | 2.00 |
| 133 | 8.67 | 10.89 | 2.88 | 3.88 | 0.87 | 16.75 | 6.98 | 116.82 | 4.000 | No | Yes | 2.00 |
| 134 | 8.71 | 10.69 | 2.90 | 4.05 | 0.88 | 16.41 | 7.24 | 118.78 | 4.000 | No | Yes | 2.00 |
| 135 | 8.72 | 10.51 | 2.92 | 4.18 | 0.88 | 16.13 | 7.46 | 120.30 | 4.000 | No | Yes | 2.00 |
| 136 | 8.78 | 10.44 | 2.92 | 4.25 | 0.89 | 16.02 | 7.56 | 121.13 | 4.000 | No | Yes | 2.00 |
| 137 | 8.80 | 10.44 | 2.93 | 4.28 | 0.89 | 16.02 | 7.59 | 121.54 | 4.000 | No | Yes | 2.00 |
| 138 | 8.86 | 10.44 | 2.93 | 4.29 | 0.89 | 16.01 | 7.60 | 121.62 | 4.000 | No | Yes | 2.00 |
| 139 | 8.90 | 10.55 | 2.92 | 4.29 | 0.88 | 16.17 | 7.55 | 122.08 | 4.000 | No | Yes | 2.00 |
| 140 | 8.95 | 10.68 | 2.92 | 4.30 | 0.88 | 16.39 | 7.49 | 122.77 | 4.000 | No | Yes | 2.00 |
| 141 | 8.96 | 10.89 | 2.91 | 4.30 | 0.88 | 16.71 | 7.39 | 123.54 | 4.000 | No | Yes | 2.00 |
| 142 | 9.00 | 11.05 | 2.91 | 4.31 | 0.88 | 16.98 | 7.33 | 124.43 | 4.000 | No | Yes | 2.00 |
| 143 | 9.05 | 11.29 | 2.90 | 4.33 | 0.88 | 17.35 | 7.24 | 125.55 | 4.000 | No | Yes | 2.00 |
| 144 | 9.09 | 11.56 | 2.89 | 4.31 | 0.88 | 17.78 | 7.10 | 126.26 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 145 | 9.10 | 11.96 | 2.88 | 4.27 | 0.87 | 18.43 | 6.89 | 127.03 | 4.000 | No | Yes | 2.00 |
| 146 | 9.14 | 12.47 | 2.86 | 4.24 | 0.87 | 19.24 | 6.66 | 128.15 | 4.000 | No | Yes | 2.00 |
| 147 | 9.20 | 13.21 | 2.84 | 4.16 | 0.86 | 20.42 | 6.33 | 129.23 | 4.000 | No | Yes | 2.00 |
| 148 | 9.24 | 14.09 | 2.81 | 4.06 | 0.85 | 21.83 | 5.95 | 129.98 | 4.000 | No | Yes | 2.00 |
| 149 | 9.29 | 15.03 | 2.78 | 3.93 | 0.84 | 23.34 | 5.57 | 129.97 | 4.000 | No | Yes | 2.00 |
| 150 | 9.31 | 15.90 | 2.75 | 3.85 | 0.83 | 24.74 | 5.28 | 130.54 | 4.000 | No | Yes | 2.00 |
| 151 | 9.38 | 16.61 | 2.73 | 3.79 | 0.83 | 25.88 | 5.06 | 130.87 | 4.000 | Yes | Yes | 2.00 |
| 152 | 9.41 | 17.32 | 2.71 | 3.66 | 0.82 | 27.00 | 4.80 | 129.53 | 4.000 | Yes | Yes | 2.00 |
| 153 | 9.47 | 18.02 | 2.68 | 3.45 | 0.81 | 28.13 | 4.48 | 126.15 | 4.000 | Yes | Yes | 2.00 |
| 154 | 9.53 | 19.33 | 2.62 | 3.03 | 0.79 | 30.23 | 3.91 | 118.10 | 4.000 | Yes | Yes | 2.00 |
| 155 | 9.62 | 21.08 | 2.54 | 2.58 | 0.77 | 33.03 | 3.29 | 108.83 | 4.000 | Yes | No | 2.00 |
| 156 | 9.67 | 23.71 | 2.45 | 2.07 | 0.74 | 36.88 | 2.63 | 97.08 | 4.000 | Yes | No | 2.00 |
| 157 | 9.77 | 26.25 | 2.37 | 1.72 | 0.72 | 39.96 | 2.22 | 88.55 | 4.000 | Yes | No | 2.00 |
| 158 | 9.81 | 28.83 | 2.29 | 1.42 | 0.70 | 43.12 | 1.89 | 81.52 | 4.000 | Yes | No | 2.00 |
| 159 | 9.90 | 30.67 | 2.24 | 1.23 | 0.68 | 45.16 | 1.72 | 77.57 | 4.000 | Yes | No | 2.00 |
| 160 | 9.97 | 32.26 | 2.20 | 1.11 | 0.67 | 46.92 | 1.61 | 75.55 | 4.000 | Yes | No | 2.00 |
| 161 | 10.06 | 32.63 | 2.20 | 1.11 | 0.67 | 47.13 | 1.61 | 75.67 | 4.000 | No | No | 2.00 |
| 162 | 10.20 | 32.13 | 2.22 | 1.20 | 0.68 | 46.19 | 1.68 | 77.59 | 4.000 | Yes | No | 2.00 |
| 163 | 10.30 | 29.29 | 2.26 | 1.22 | 0.69 | 42.06 | 1.79 | 75.15 | 4.000 | Yes | No | 2.00 |
| 164 | 10.44 | 25.52 | 2.33 | 1.34 | 0.71 | 36.67 | 2.06 | 75.52 | 4.000 | Yes | No | 2.00 |
| 165 | 10.54 | 20.70 | 2.45 | 1.61 | 0.74 | 30.03 | 2.66 | 79.87 | 4.000 | Yes | No | 2.00 |
| 166 | 10.63 | 16.56 | 2.64 | 2.51 | 0.80 | 24.49 | 4.08 | 99.92 | 4.000 | Yes | Yes | 2.00 |
| 167 | 10.74 | 13.83 | 2.78 | 3.48 | 0.84 | 20.66 | 5.64 | 116.62 | 4.000 | Yes | Yes | 2.00 |
| 168 | 10.78 | 12.62 | 2.86 | 4.22 | 0.87 | 18.99 | 6.71 | 127.39 | 4.000 | Yes | Yes | 2.00 |
| 169 | 10.83 | 12.48 | 2.88 | 4.44 | 0.87 | 18.76 | 6.96 | 130.59 | 4.000 | Yes | Yes | 2.00 |
| 170 | 10.88 | 12.31 | 2.90 | 4.63 | 0.88 | 18.47 | 7.21 | 133.16 | 4.000 | Yes | Yes | 2.00 |
| 171 | 10.89 | 12.15 | 2.92 | 4.89 | 0.88 | 18.24 | 7.50 | 136.86 | 4.000 | Yes | Yes | 2.00 |
| 172 | 10.97 | 12.25 | 2.93 | 5.04 | 0.89 | 18.30 | 7.62 | 139.36 | 4.000 | No | Yes | 2.00 |
| 173 | 11.02 | 12.48 | 2.93 | 5.14 | 0.89 | 18.59 | 7.62 | 141.70 | 4.000 | No | Yes | 2.00 |
| 174 | 11.07 | 12.79 | 2.92 | 5.12 | 0.88 | 18.96 | 7.51 | 142.37 | 4.000 | No | Yes | 2.00 |
| 175 | 11.11 | 13.06 | 2.91 | 5.11 | 0.88 | 19.28 | 7.42 | 143.00 | 4.000 | No | Yes | 2.00 |
| 176 | 11.16 | 13.39 | 2.91 | 5.09 | 0.88 | 19.70 | 7.30 | 143.71 | 4.000 | No | Yes | 2.00 |
| 177 | 11.21 | 13.76 | 2.90 | 5.09 | 0.88 | 20.15 | 7.19 | 144.81 | 4.000 | No | Yes | 2.00 |
| 178 | 11.26 | 14.14 | 2.89 | 5.11 | 0.88 | 20.62 | 7.10 | 146.37 | 4.000 | No | Yes | 2.00 |
| 179 | 11.30 | 14.37 | 2.89 | 5.20 | 0.88 | 20.90 | 7.10 | 148.42 | 4.000 | No | Yes | 2.00 |
| 180 | 11.36 | 14.54 | 2.90 | 5.29 | 0.88 | 21.07 | 7.14 | 150.43 | 4.000 | No | Yes | 2.00 |
| 181 | 11.40 | 14.68 | 2.90 | 5.36 | 0.88 | 21.19 | 7.17 | 151.92 | 4.000 | No | Yes | 2.00 |
| 182 | 11.45 | 14.81 | 2.90 | 5.40 | 0.88 | 21.32 | 7.18 | 152.97 | 4.000 | No | Yes | 2.00 |
| 183 | 11.50 | 15.04 | 2.89 | 5.41 | 0.88 | 21.57 | 7.12 | 153.64 | 4.000 | No | Yes | 2.00 |
| 184 | 11.55 | 15.31 | 2.89 | 5.41 | 0.88 | 21.86 | 7.06 | 154.44 | 4.000 | No | Yes | 2.00 |
| 185 | 11.60 | 15.85 | 2.88 | 5.35 | 0.87 | 22.53 | 6.88 | 155.07 | 4.000 | No | Yes | 2.00 |
| 186 | 11.66 | 16.56 | 2.86 | 5.25 | 0.87 | 23.39 | 6.63 | 155.14 | 4.000 | No | Yes | 2.00 |
| 187 | 11.74 | 17.40 | 2.84 | 5.06 | 0.86 | 24.38 | 6.31 | 153.92 | 4.000 | No | Yes | 2.00 |
| 188 | 11.84 | 17.98 | 2.82 | 4.98 | 0.86 | 24.97 | 6.15 | 153.46 | 4.000 | No | Yes | 2.00 |
| 189 | 11.93 | 18.18 | 2.82 | 5.03 | 0.86 | 25.08 | 6.17 | 154.65 | 4.000 | No | Yes | 2.00 |
| 190 | 12.04 | 18.04 | 2.84 | 5.23 | 0.86 | 24.73 | 6.38 | 157.76 | 4.000 | No | Yes | 2.00 |
| 191 | 12.13 | 17.87 | 2.86 | 5.42 | 0.87 | 24.37 | 6.58 | 160.42 | 4.000 | No | Yes | 2.00 |
| 192 | 12.22 | 17.67 | 2.87 | 5.55 | 0.87 | 23.94 | 6.76 | 161.87 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 193 | 12.27 | 17.51 | 2.88 | 5.59 | 0.87 | 23.64 | 6.85 | 161.93 | 4.000 | No | Yes | 2.00 |
| 194 | 12.37 | 17.27 | 2.88 | 5.64 | 0.87 | 23.16 | 6.98 | 161.58 | 4.000 | No | Yes | 2.00 |
| 195 | 12.41 | 17.17 | 2.89 | 5.65 | 0.87 | 22.94 | 7.03 | 161.26 | 4.000 | No | Yes | 2.00 |
| 196 | 12.51 | 17.06 | 2.89 | 5.71 | 0.88 | 22.65 | 7.13 | 161.48 | 4.000 | No | Yes | 2.00 |
| 197 | 12.56 | 17.23 | 2.89 | 5.68 | 0.88 | 22.78 | 7.08 | 161.37 | 4.000 | No | Yes | 2.00 |
| 198 | 12.65 | 17.64 | 2.88 | 5.61 | 0.87 | 23.15 | 6.96 | 161.03 | 4.000 | No | Yes | 2.00 |
| 199 | 12.71 | 18.45 | 2.86 | 5.51 | 0.87 | 24.09 | 6.70 | 161.44 | 4.000 | No | Yes | 2.00 |
| 200 | 12.79 | 19.23 | 2.86 | 5.57 | 0.87 | 24.96 | 6.59 | 164.56 | 4.000 | No | Yes | 2.00 |
| 201 | 12.89 | 20.10 | 2.85 | 5.67 | 0.86 | 25.92 | 6.50 | 168.54 | 4.000 | No | Yes | 2.00 |
| 202 | 12.96 | 20.98 | 2.84 | 5.80 | 0.86 | 26.96 | 6.43 | 173.33 | 4.000 | No | Yes | 2.00 |
| 203 | 13.04 | 22.23 | 2.82 | 5.70 | 0.86 | 28.37 | 6.15 | 174.57 | 4.000 | Yes | Yes | 2.00 |
| 204 | 13.13 | 24.11 | 2.78 | 5.33 | 0.84 | 30.49 | 5.62 | 171.40 | 4.000 | Yes | Yes | 2.00 |
| 205 | 13.23 | 26.80 | 2.65 | 3.76 | 0.80 | 33.27 | 4.19 | 139.58 | 4.000 | Yes | Yes | 2.00 |
| 206 | 13.30 | 30.34 | 2.49 | 2.43 | 0.76 | 36.95 | 2.91 | 107.47 | 4.000 | Yes | No | 2.00 |
| 207 | 13.37 | 34.15 | 2.32 | 1.49 | 0.70 | 40.77 | 2.02 | 82.17 | 4.000 | Yes | No | 2.00 |
| 208 | 13.47 | 38.32 | 2.29 | 1.49 | 0.69 | 45.44 | 1.87 | 85.15 | 4.000 | Yes | No | 2.00 |
| 209 | 13.57 | 38.79 | 2.31 | 1.62 | 0.70 | 45.84 | 1.94 | 89.15 | 4.000 | No | No | 2.00 |
| 210 | 13.61 | 39.19 | 2.31 | 1.69 | 0.70 | 46.27 | 1.98 | 91.39 | 4.000 | No | No | 2.00 |
| 211 | 13.62 | 40.31 | 2.30 | 1.69 | 0.70 | 47.52 | 1.94 | 92.31 | 4.000 | No | No | 2.00 |
| 212 | 13.68 | 44.31 | 2.26 | 1.59 | 0.69 | 51.92 | 1.78 | 92.36 | 4.000 | No | No | 2.00 |
| 213 | 13.73 | 47.82 | 2.22 | 1.53 | 0.68 | 55.76 | 1.68 | 93.57 | 4.000 | No | No | 2.00 |
| 214 | 13.77 | 50.08 | 2.21 | 1.55 | 0.67 | 58.23 | 1.65 | 95.79 | 4.000 | No | No | 2.00 |
| 215 | 13.87 | 52.91 | 2.20 | 1.55 | 0.67 | 61.16 | 1.61 | 98.26 | 4.000 | No | No | 2.00 |
| 216 | 13.93 | 55.78 | 2.19 | 1.58 | 0.66 | 64.26 | 1.58 | 101.41 | 4.000 | No | No | 2.00 |
| 217 | 14.00 | 58.54 | 2.17 | 1.60 | 0.66 | 67.15 | 1.55 | 104.21 | 4.000 | No | No | 2.00 |
| 218 | 14.06 | 60.62 | 2.17 | 1.63 | 0.66 | 69.33 | 1.54 | 106.89 | 4.000 | No | No | 2.00 |
| 219 | 14.12 | 62.21 | 2.17 | 1.67 | 0.66 | 70.95 | 1.54 | 109.37 | 4.000 | No | No | 2.00 |
| 220 | 14.21 | 63.05 | 2.17 | 1.71 | 0.66 | 71.63 | 1.55 | 111.13 | 4.000 | No | No | 2.00 |
| 221 | 14.25 | 63.45 | 2.18 | 1.75 | 0.66 | 71.96 | 1.56 | 112.44 | 4.000 | No | No | 2.00 |
| 222 | 14.35 | 63.35 | 2.18 | 1.78 | 0.66 | 71.51 | 1.58 | 112.67 | 4.000 | No | No | 2.00 |
| 223 | 14.45 | 62.61 | 2.19 | 1.80 | 0.67 | 70.37 | 1.60 | 112.38 | 4.000 | No | No | 2.00 |
| 224 | 14.50 | 61.06 | 2.21 | 1.83 | 0.67 | 68.50 | 1.63 | 111.75 | 4.000 | No | No | 2.00 |
| 225 | 14.59 | 59.18 | 2.22 | 1.87 | 0.68 | 66.15 | 1.68 | 111.04 | 4.000 | No | No | 2.00 |
| 226 | 14.64 | 57.19 | 2.24 | 1.92 | 0.68 | 63.82 | 1.73 | 110.49 | 4.000 | No | No | 2.00 |
| 227 | 14.74 | 55.60 | 2.26 | 1.95 | 0.69 | 61.79 | 1.78 | 110.08 | 4.000 | No | No | 2.00 |
| 228 | 14.80 | 54.22 | 2.27 | 1.99 | 0.69 | 60.12 | 1.83 | 109.86 | 4.000 | No | No | 2.00 |
| 229 | 14.88 | 53.18 | 2.28 | 2.02 | 0.69 | 58.73 | 1.87 | 109.70 | 4.000 | No | No | 2.00 |
| 230 | 14.97 | 52.24 | 2.30 | 2.05 | 0.70 | 57.45 | 1.91 | 109.62 | 4.000 | No | No | 2.00 |
| 231 | 15.05 | 51.43 | 2.31 | 2.08 | 0.70 | 56.38 | 1.95 | 110.04 | 4.000 | No | No | 2.00 |
| 232 | 15.13 | 50.85 | 2.32 | 2.12 | 0.70 | 55.53 | 1.99 | 110.56 | 4.000 | No | No | 2.00 |
| 233 | 15.21 | 50.95 | 2.32 | 2.12 | 0.70 | 55.42 | 1.99 | 110.46 | 4.000 | No | No | 2.00 |
| 234 | 15.28 | 52.23 | 2.30 | 2.06 | 0.70 | 56.58 | 1.93 | 109.48 | 4.000 | No | No | 2.00 |
| 235 | 15.36 | 55.10 | 2.27 | 1.95 | 0.69 | 59.37 | 1.82 | 108.07 | 4.000 | No | No | 2.00 |
| 236 | 15.41 | 60.22 | 2.22 | 1.78 | 0.67 | 64.61 | 1.66 | 107.30 | 4.000 | No | No | 2.00 |
| 237 | 15.50 | 66.38 | 2.16 | 1.62 | 0.66 | 70.74 | 1.53 | 108.00 | 4.000 | No | No | 2.00 |
| 238 | 15.55 | 72.78 | 2.07 | 1.31 | 0.63 | 77.07 | 1.38 | 106.45 | 4.000 | No | No | 2.00 |
| 239 | 15.65 | 76.92 | 2.00 | 1.07 | 0.61 | 80.83 | 1.31 | 105.71 | 4.000 | No | No | 2.00 |
| 240 | 15.71 | 78.17 | 1.94 | 0.88 | 0.59 | 81.68 | 1.27 | 103.43 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 241 | 15.79 | 75.07 | 1.96 | 0.89 | 0.60 | 78.22 | 1.28 | 99.99 | 4.000 | Yes | No | 2.00 |
| 242 | 15.89 | 67.29 | 2.02 | 0.97 | 0.61 | 69.97 | 1.33 | 92.88 | 4.000 | Yes | No | 2.00 |
| 243 | 15.90 | 61.09 | 2.07 | 1.04 | 0.63 | 63.58 | 1.38 | 88.03 | 4.000 | Yes | No | 2.00 |
| 244 | 15.94 | 56.21 | 2.12 | 1.11 | 0.64 | 58.47 | 1.45 | 84.99 | 4.000 | Yes | No | 2.00 |
| 245 | 16.00 | 53.24 | 2.15 | 1.16 | 0.65 | 55.28 | 1.51 | 83.45 | 4.000 | Yes | No | 2.00 |
| 246 | 16.06 | 47.68 | 2.22 | 1.30 | 0.67 | 49.45 | 1.67 | 82.65 | 4.000 | Yes | No | 2.00 |
| 247 | 16.14 | 40.74 | 2.32 | 1.56 | 0.71 | 42.17 | 2.02 | 85.02 | 4.000 | Yes | No | 2.00 |
| 248 | 16.19 | 34.10 | 2.43 | 1.87 | 0.74 | 35.24 | 2.56 | 90.26 | 4.000 | Yes | No | 2.00 |
| 249 | 16.26 | 27.10 | 2.57 | 2.32 | 0.78 | 27.88 | 3.51 | 97.89 | 4.000 | Yes | No | 2.00 |
| 250 | 16.33 | 21.54 | 2.70 | 2.80 | 0.82 | 22.01 | 4.74 | 104.24 | 4.000 | Yes | Yes | 2.00 |
| 251 | 16.38 | 17.06 | 2.83 | 3.31 | 0.86 | 17.28 | 6.24 | 107.80 | 4.000 | Yes | Yes | 2.00 |
| 252 | 16.47 | 14.43 | 2.93 | 3.75 | 0.89 | 14.45 | 7.58 | 109.50 | 4.000 | Yes | Yes | 2.00 |
| 253 | 16.54 | 12.64 | 3.00 | 4.14 | 1.00 | 12.69 | 8.71 | 110.54 | 4.000 | Yes | Yes | 2.00 |
| 254 | 16.62 | 11.80 | 3.05 | 4.58 | 1.00 | 11.71 | 9.67 | 113.31 | 4.000 | No | Yes | 2.00 |
| 255 | 16.70 | 11.53 | 3.08 | 4.88 | 1.00 | 11.36 | 10.18 | 115.66 | 4.000 | No | Yes | 2.00 |
| 256 | 16.76 | 12.28 | 3.06 | 4.98 | 1.00 | 12.12 | 9.88 | 119.66 | 4.000 | No | Yes | 2.00 |
| 257 | 16.86 | 14.88 | 2.96 | 4.36 | 1.00 | 14.80 | 8.08 | 119.59 | 4.000 | Yes | Yes | 2.00 |
| 258 | 16.90 | 19.33 | 2.82 | 3.59 | 0.85 | 19.15 | 6.07 | 116.24 | 4.000 | Yes | Yes | 2.00 |
| 259 | 16.98 | 25.84 | 2.65 | 2.82 | 0.80 | 25.69 | 4.22 | 108.51 | 4.000 | Yes | Yes | 2.00 |
| 260 | 17.05 | 35.42 | 2.48 | 2.18 | 0.75 | 35.23 | 2.81 | 99.11 | 4.000 | Yes | No | 2.00 |
| 261 | 17.14 | 47.54 | 2.30 | 1.68 | 0.70 | 47.19 | 1.94 | 91.71 | 4.000 | Yes | No | 2.00 |
| 262 | 17.20 | 61.48 | 2.15 | 1.32 | 0.65 | 60.90 | 1.51 | 91.88 | 4.000 | Yes | No | 2.00 |
| 263 | 17.29 | 73.03 | 2.05 | 1.11 | 0.62 | 72.03 | 1.35 | 97.56 | 4.000 | Yes | No | 2.00 |
| 264 | 17.34 | 81.99 | 1.99 | 1.01 | 0.60 | 80.70 | 1.30 | 104.58 | 4.000 | Yes | No | 2.00 |
| 265 | 17.44 | 86.87 | 1.97 | 1.01 | 0.60 | 85.21 | 1.28 | 109.31 | 4.000 | No | No | 2.00 |
| 266 | 17.50 | 88.89 | 1.93 | 0.91 | 0.59 | 86.96 | 1.26 | 109.36 | 4.000 | No | No | 2.00 |
| 267 | 17.58 | 88.15 | 1.91 | 0.82 | 0.58 | 85.91 | 1.24 | 106.78 | 4.000 | No | No | 2.00 |
| 268 | 17.64 | 85.02 | 1.90 | 0.75 | 0.58 | 82.63 | 1.24 | 102.13 | 4.000 | No | No | 2.00 |
| 269 | 17.75 | 80.50 | 1.95 | 0.85 | 0.59 | 77.97 | 1.27 | 99.12 | 4.000 | No | No | 2.00 |
| 270 | 17.82 | 72.08 | 2.04 | 1.03 | 0.62 | 69.66 | 1.35 | 93.80 | 4.000 | No | No | 2.00 |
| 271 | 17.89 | 66.02 | 2.11 | 1.19 | 0.64 | 63.60 | 1.43 | 91.18 | 4.000 | No | No | 2.00 |
| 272 | 17.89 | 62.68 | 2.15 | 1.30 | 0.65 | 60.37 | 1.51 | 91.04 | 4.000 | No | No | 2.00 |
| 273 | 17.96 | 64.06 | 2.15 | 1.31 | 0.65 | 61.55 | 1.50 | 92.30 | 4.000 | No | No | 2.00 |
| 274 | 18.02 | 65.34 | 2.15 | 1.35 | 0.65 | 62.67 | 1.51 | 94.33 | 4.000 | No | No | 2.00 |
| 275 | 18.07 | 66.86 | 2.15 | 1.39 | 0.65 | 64.01 | 1.51 | 96.43 | 4.000 | No | No | 2.00 |
| 276 | 18.17 | 68.78 | 2.14 | 1.40 | 0.65 | 65.62 | 1.49 | 98.02 | 4.000 | No | No | 2.00 |
| 277 | 18.22 | 68.74 | 2.15 | 1.43 | 0.65 | 65.47 | 1.51 | 98.54 | 4.000 | Yes | No | 2.00 |
| 278 | 18.30 | 65.20 | 2.19 | 1.53 | 0.66 | 61.85 | 1.59 | 98.20 | 4.000 | Yes | No | 2.00 |
| 279 | 18.36 | 57.69 | 2.27 | 1.79 | 0.69 | 54.52 | 1.83 | 99.83 | 4.000 | Yes | No | 2.00 |
| 280 | 18.42 | 49.20 | 2.39 | 2.19 | 0.72 | 46.28 | 2.30 | 106.36 | 4.000 | Yes | No | 2.00 |
| 281 | 18.50 | 39.97 | 2.53 | 2.80 | 0.77 | 37.31 | 3.16 | 118.00 | 4.000 | Yes | No | 2.00 |
| 282 | 18.56 | 32.38 | 2.66 | 3.50 | 0.81 | 29.97 | 4.32 | 129.55 | 4.000 | Yes | Yes | 2.00 |
| 283 | 18.62 | 25.71 | 2.80 | 4.24 | 0.85 | 23.53 | 5.80 | 136.40 | 4.000 | Yes | Yes | 2.00 |
| 284 | 18.69 | 23.96 | 2.82 | 4.26 | 0.85 | 21.78 | 6.13 | 133.60 | 4.000 | Yes | Yes | 2.00 |
| 285 | 18.76 | 22.21 | 2.86 | 4.37 | 0.87 | 20.05 | 6.60 | 132.24 | 4.000 | Yes | Yes | 2.00 |
| 286 | 18.84 | 24.30 | 2.80 | 4.02 | 0.85 | 21.95 | 5.90 | 129.41 | 4.000 | Yes | Yes | 2.00 |
| 287 | 18.89 | 31.88 | 2.66 | 3.30 | 0.80 | 29.04 | 4.26 | 123.66 | 4.000 | Yes | Yes | 2.00 |
| 288 | 18.98 | 52.85 | 2.37 | 2.20 | 0.72 | 48.61 | 2.23 | 108.20 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 289 | 19.05 | 78.42 | 2.16 | 1.65 | 0.66 | 72.48 | 1.52 | 110.23 | 4.000 | Yes | No | 2.00 |
| 290 | 19.12 | 101.80 | 2.02 | 1.36 | 0.61 | 94.21 | 1.32 | 124.65 | 4.000 | Yes | No | 2.00 |
| 291 | 19.18 | 115.88 | 1.95 | 1.24 | 0.59 | 107.18 | 1.27 | 136.09 | 4.000 | Yes | No | 2.00 |
| 292 | 19.24 | 124.07 | 1.91 | 1.18 | 0.58 | 114.61 | 1.25 | 142.72 | 4.000 | Yes | No | 2.00 |
| 293 | 19.32 | 126.76 | 1.90 | 1.17 | 0.58 | 116.83 | 1.24 | 144.84 | 4.000 | No | No | 2.00 |
| 294 | 19.38 | 126.53 | 1.92 | 1.21 | 0.58 | 116.38 | 1.25 | 145.16 | 4.000 | No | No | 2.00 |
| 295 | 19.46 | 124.81 | 1.94 | 1.27 | 0.59 | 114.42 | 1.26 | 144.25 | 4.000 | No | No | 2.00 |
| 296 | 19.54 | 122.62 | 1.96 | 1.34 | 0.60 | 112.08 | 1.28 | 142.92 | 4.000 | No | No | 2.00 |
| 297 | 19.62 | 121.00 | 1.97 | 1.38 | 0.60 | 110.26 | 1.28 | 141.68 | 4.000 | No | No | 2.00 |
| 298 | 19.70 | 119.99 | 1.98 | 1.40 | 0.60 | 109.01 | 1.29 | 140.65 | 4.000 | No | No | 2.00 |
| 299 | 19.80 | 119.75 | 1.98 | 1.39 | 0.60 | 108.41 | 1.29 | 140.01 | 4.000 | No | No | 2.00 |
| 300 | 19.85 | 119.75 | 1.98 | 1.39 | 0.60 | 108.23 | 1.29 | 139.71 | 4.000 | No | No | 2.00 |
| 301 | 19.94 | 119.95 | 1.98 | 1.40 | 0.60 | 108.07 | 1.29 | 139.71 | 4.000 | No | No | 2.00 |
| 302 | 20.03 | 120.73 | 1.96 | 1.31 | 0.60 | 108.50 | 1.28 | 138.61 | 4.000 | No | No | 2.00 |
| 303 | 20.13 | 121.84 | 1.94 | 1.23 | 0.59 | 109.19 | 1.26 | 137.92 | 4.000 | No | No | 2.00 |
| 304 | 20.19 | 123.33 | 1.91 | 1.14 | 0.58 | 110.40 | 1.25 | 137.60 | 4.000 | No | No | 2.00 |
| 305 | 20.29 | 124.05 | 1.92 | 1.16 | 0.58 | 110.67 | 1.25 | 138.32 | 4.000 | No | No | 2.00 |
| 306 | 20.39 | 124.51 | 1.93 | 1.18 | 0.59 | 110.70 | 1.25 | 138.76 | 4.000 | No | No | 2.00 |
| 307 | 20.43 | 124.14 | 1.93 | 1.21 | 0.59 | 110.23 | 1.26 | 138.70 | 4.000 | No | No | 2.00 |
| 308 | 20.47 | 124.09 | 1.94 | 1.23 | 0.59 | 109.99 | 1.26 | 138.78 | 4.000 | No | No | 2.00 |
| 309 | 20.52 | 123.97 | 1.95 | 1.26 | 0.59 | 109.69 | 1.27 | 139.06 | 4.000 | No | No | 2.00 |
| 310 | 20.61 | 123.97 | 1.96 | 1.30 | 0.59 | 109.33 | 1.27 | 139.29 | 4.000 | No | No | 2.00 |
| 311 | 20.66 | 123.26 | 1.97 | 1.34 | 0.60 | 108.48 | 1.28 | 139.08 | 4.000 | No | No | 2.00 |
| 312 | 20.71 | 122.22 | 1.98 | 1.36 | 0.60 | 107.35 | 1.29 | 138.34 | 4.000 | No | No | 2.00 |
| 313 | 20.77 | 121.00 | 1.99 | 1.39 | 0.60 | 106.04 | 1.30 | 137.35 | 4.000 | No | No | 2.00 |
| 314 | 20.85 | 120.53 | 1.99 | 1.40 | 0.60 | 105.33 | 1.30 | 136.79 | 4.000 | No | No | 2.00 |
| 315 | 20.91 | 120.63 | 1.99 | 1.40 | 0.61 | 105.23 | 1.30 | 136.74 | 4.000 | No | No | 2.00 |
| 316 | 21.00 | 121.00 | 1.99 | 1.40 | 0.61 | 105.23 | 1.30 | 136.71 | 4.000 | No | No | 2.00 |
| 317 | 21.05 | 120.93 | 1.99 | 1.40 | 0.61 | 105.01 | 1.30 | 136.53 | 4.000 | No | No | 2.00 |
| 318 | 21.11 | 120.50 | 2.00 | 1.41 | 0.61 | 104.40 | 1.30 | 136.06 | 4.000 | No | No | 2.00 |
| 319 | 21.19 | 120.16 | 2.00 | 1.42 | 0.61 | 103.82 | 1.31 | 135.66 | 4.000 | No | No | 2.00 |
| 320 | 21.24 | 120.23 | 2.00 | 1.43 | 0.61 | 103.70 | 1.31 | 135.67 | 4.000 | No | No | 2.00 |
| 321 | 21.34 | 120.39 | 2.00 | 1.43 | 0.61 | 103.52 | 1.31 | 135.57 | 4.000 | No | No | 2.00 |
| 322 | 21.39 | 119.99 | 2.01 | 1.44 | 0.61 | 103.00 | 1.31 | 135.16 | 4.000 | No | No | 2.00 |
| 323 | 21.48 | 118.68 | 2.01 | 1.45 | 0.61 | 101.52 | 1.32 | 133.84 | 4.000 | No | No | 2.00 |
| 324 | 21.53 | 116.39 | 2.02 | 1.47 | 0.61 | 99.34 | 1.33 | 131.86 | 4.000 | No | No | 2.00 |
| 325 | 21.64 | 113.86 | 2.03 | 1.47 | 0.62 | 96.79 | 1.34 | 129.36 | 4.000 | No | No | 2.00 |
| 326 | 21.72 | 111.80 | 2.02 | 1.38 | 0.61 | 94.83 | 1.33 | 125.65 | 4.000 | No | No | 2.00 |
| 327 | 21.81 | 110.79 | 2.00 | 1.27 | 0.61 | 93.80 | 1.31 | 122.48 | 4.000 | No | No | 2.00 |
| 328 | 21.89 | 110.52 | 1.97 | 1.15 | 0.60 | 93.48 | 1.28 | 120.09 | 4.000 | No | No | 2.00 |
| 329 | 21.97 | 110.69 | 1.96 | 1.11 | 0.60 | 93.44 | 1.28 | 119.40 | 4.000 | No | No | 2.00 |
| 330 | 22.05 | 110.81 | 1.96 | 1.09 | 0.60 | 93.32 | 1.27 | 118.94 | 4.000 | No | No | 2.00 |
| 331 | 22.12 | 110.92 | 1.95 | 1.07 | 0.59 | 93.25 | 1.27 | 118.64 | 4.000 | No | No | 2.00 |
| 332 | 22.13 | 110.89 | 1.95 | 1.07 | 0.59 | 93.20 | 1.27 | 118.54 | 4.000 | No | No | 2.00 |
| 333 | 22.18 | 111.98 | 1.95 | 1.06 | 0.59 | 94.01 | 1.27 | 119.22 | 4.000 | No | No | 2.00 |
| 334 | 22.22 | 114.49 | 1.93 | 1.04 | 0.59 | 96.10 | 1.26 | 121.02 | 4.000 | No | No | 2.00 |
| 335 | 22.28 | 118.47 | 1.91 | 1.01 | 0.58 | 99.41 | 1.25 | 123.90 | 4.000 | No | No | 2.00 |
| 336 | 22.33 | 122.55 | 1.90 | 0.98 | 0.58 | 102.85 | 1.23 | 126.89 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 337 | 22.38 | 126.36 | 1.88 | 0.96 | 0.57 | 106.02 | 1.22 | 129.64 | 4.000 | No | No | 2.00 |
| 338 | 22.41 | 129.99 | 1.86 | 0.93 | 0.57 | 109.11 | 1.21 | 132.05 | 4.000 | No | No | 2.00 |
| 339 | 22.51 | 133.16 | 1.85 | 0.91 | 0.56 | 111.59 | 1.20 | 133.67 | 4.000 | No | No | 2.00 |
| 340 | 22.56 | 135.86 | 1.83 | 0.88 | 0.56 | 113.83 | 1.18 | 134.77 | 4.000 | No | No | 2.00 |
| 341 | 22.61 | 137.68 | 1.82 | 0.85 | 0.55 | 115.29 | 1.17 | 135.13 | 4.000 | No | No | 2.00 |
| 342 | 22.65 | 139.23 | 1.81 | 0.82 | 0.55 | 116.56 | 1.16 | 135.07 | 4.000 | No | No | 2.00 |
| 343 | 22.71 | 140.30 | 1.79 | 0.80 | 0.55 | 117.38 | 1.15 | 134.57 | 4.000 | No | No | 2.00 |
| 344 | 22.76 | 141.15 | 1.78 | 0.77 | 0.54 | 118.01 | 1.13 | 133.54 | 4.000 | No | No | 2.00 |
| 345 | 22.85 | 141.55 | 1.77 | 0.74 | 0.54 | 118.16 | 1.12 | 132.33 | 4.000 | No | No | 2.00 |
| 346 | 22.89 | 141.79 | 1.77 | 0.72 | 0.54 | 118.28 | 1.11 | 131.19 | 4.000 | No | No | 2.00 |
| 347 | 22.99 | 141.85 | 1.76 | 0.71 | 0.54 | 118.07 | 1.10 | 130.38 | 4.000 | No | No | 2.00 |
| 348 | 23.04 | 142.19 | 1.76 | 0.71 | 0.54 | 118.24 | 1.10 | 129.89 | 4.000 | No | No | 2.00 |
| 349 | 23.12 | 143.24 | 1.75 | 0.70 | 0.53 | 118.92 | 1.09 | 129.72 | 4.000 | No | No | 2.00 |
| 350 | 23.18 | 145.12 | 1.75 | 0.69 | 0.53 | 120.36 | 1.08 | 129.86 | 4.000 | No | No | 2.00 |
| 351 | 23.24 | 147.55 | 1.74 | 0.69 | 0.53 | 122.28 | 1.07 | 130.48 | 4.000 | No | No | 2.00 |
| 352 | 23.33 | 150.28 | 1.73 | 0.68 | 0.53 | 124.35 | 1.05 | 131.06 | 4.000 | No | No | 2.00 |
| 353 | 23.38 | 152.77 | 1.73 | 0.68 | 0.53 | 126.31 | 1.04 | 131.98 | 4.000 | No | No | 2.00 |
| 354 | 23.47 | 154.92 | 1.72 | 0.68 | 0.53 | 127.86 | 1.04 | 132.70 | 4.000 | No | No | 2.00 |
| 355 | 23.52 | 155.87 | 1.73 | 0.70 | 0.53 | 128.46 | 1.05 | 134.34 | 4.000 | No | No | 2.00 |
| 356 | 23.61 | 155.50 | 1.74 | 0.72 | 0.53 | 127.76 | 1.06 | 136.02 | 4.000 | No | No | 2.00 |
| 357 | 23.68 | 153.41 | 1.76 | 0.76 | 0.54 | 125.65 | 1.10 | 137.67 | 4.000 | No | No | 2.00 |
| 358 | 23.76 | 149.87 | 1.78 | 0.79 | 0.54 | 122.29 | 1.13 | 137.84 | 4.000 | No | No | 2.00 |
| 359 | 23.83 | 145.42 | 1.80 | 0.83 | 0.55 | 118.19 | 1.16 | 136.72 | 4.000 | No | No | 2.00 |
| 360 | 23.90 | 140.77 | 1.83 | 0.87 | 0.56 | 113.95 | 1.18 | 134.56 | 4.000 | No | No | 2.00 |
| 361 | 23.97 | 136.02 | 1.85 | 0.91 | 0.56 | 109.66 | 1.20 | 131.87 | 4.000 | No | No | 2.00 |
| 362 | 24.05 | 130.36 | 1.88 | 0.95 | 0.57 | 104.58 | 1.22 | 128.11 | 4.000 | No | No | 2.00 |
| 363 | 24.10 | 123.83 | 1.92 | 1.01 | 0.58 | 98.86 | 1.25 | 123.41 | 4.000 | No | No | 2.00 |
| 364 | 24.19 | 116.14 | 1.96 | 1.08 | 0.60 | 92.13 | 1.28 | 117.58 | 4.000 | No | No | 2.00 |
| 365 | 24.27 | 109.37 | 2.00 | 1.15 | 0.61 | 86.22 | 1.31 | 112.54 | 4.000 | No | No | 2.00 |
| 366 | 24.34 | 103.31 | 2.03 | 1.21 | 0.62 | 80.98 | 1.34 | 108.37 | 4.000 | No | No | 2.00 |
| 367 | 24.43 | 99.26 | 2.06 | 1.26 | 0.63 | 77.39 | 1.37 | 105.81 | 4.000 | No | No | 2.00 |
| 368 | 24.48 | 95.99 | 2.09 | 1.32 | 0.63 | 74.54 | 1.40 | 104.29 | 4.000 | No | No | 2.00 |
| 369 | 24.57 | 93.77 | 2.11 | 1.39 | 0.64 | 72.46 | 1.43 | 103.72 | 4.000 | No | No | 2.00 |
| 370 | 24.62 | 91.81 | 2.12 | 1.39 | 0.64 | 70.77 | 1.45 | 102.28 | 4.000 | No | No | 2.00 |
| 371 | 24.72 | 90.33 | 2.12 | 1.39 | 0.65 | 69.37 | 1.46 | 101.12 | 4.000 | No | No | 2.00 |
| 372 | 24.81 | 89.08 | 2.13 | 1.39 | 0.65 | 68.17 | 1.47 | 100.03 | 4.000 | No | No | 2.00 |
| 373 | 24.86 | 87.96 | 2.15 | 1.46 | 0.65 | 67.09 | 1.50 | 100.81 | 4.000 | No | No | 2.00 |
| 374 | 24.95 | 85.18 | 2.18 | 1.55 | 0.66 | 64.60 | 1.56 | 100.88 | 4.000 | No | No | 2.00 |
| 375 | 25.01 | 82.83 | 2.20 | 1.62 | 0.67 | 62.55 | 1.62 | 101.05 | 4.000 | No | No | 2.00 |
| 376 | 25.02 | 81.04 | 2.22 | 1.66 | 0.67 | 61.07 | 1.66 | 101.09 | 4.000 | No | No | 2.00 |
| 377 | 25.05 | 81.81 | 2.21 | 1.65 | 0.67 | 61.63 | 1.64 | 101.34 | 4.000 | No | No | 2.00 |
| 378 | 25.11 | 82.33 | 2.21 | 1.65 | 0.67 | 61.92 | 1.64 | 101.59 | 4.000 | No | No | 2.00 |
| 379 | 25.15 | 82.53 | 2.21 | 1.66 | 0.67 | 61.99 | 1.64 | 101.87 | 4.000 | No | No | 2.00 |
| 380 | 25.21 | 81.92 | 2.22 | 1.68 | 0.67 | 61.38 | 1.66 | 101.94 | 4.000 | No | No | 2.00 |
| 381 | 25.25 | 81.07 | 2.23 | 1.70 | 0.68 | 60.61 | 1.68 | 101.90 | 4.000 | No | No | 2.00 |
| 382 | 25.30 | 79.78 | 2.23 | 1.71 | 0.68 | 59.50 | 1.70 | 101.32 | 4.000 | No | No | 2.00 |
| 383 | 25.40 | 78.02 | 2.24 | 1.71 | 0.68 | 57.95 | 1.73 | 100.17 | 4.000 | No | No | 2.00 |
| 384 | 25.45 | 75.14 | 2.25 | 1.71 | 0.68 | 55.63 | 1.77 | 98.38 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 385 | 25.52 | 71.36 | 2.27 | 1.71 | 0.69 | 52.56 | 1.83 | 96.28 | 4.000 | Yes | No | 2.00 |
| 386 | 25.60 | 65.60 | 2.32 | 1.78 | 0.70 | 47.92 | 1.99 | 95.12 | 4.000 | Yes | No | 2.00 |
| 387 | 25.66 | 58.89 | 2.37 | 1.90 | 0.72 | 42.57 | 2.24 | 95.48 | 4.000 | Yes | No | 2.00 |
| 388 | 25.74 | 50.63 | 2.47 | 2.18 | 0.75 | 36.01 | 2.77 | 99.69 | 4.000 | Yes | No | 2.00 |
| 389 | 25.80 | 42.60 | 2.57 | 2.54 | 0.78 | 29.74 | 3.54 | 105.15 | 4.000 | Yes | No | 2.00 |
| 390 | 25.88 | 34.42 | 2.71 | 3.09 | 0.82 | 23.44 | 4.79 | 112.31 | 4.000 | Yes | Yes | 2.00 |
| 391 | 25.94 | 27.91 | 2.84 | 3.70 | 0.86 | 18.51 | 6.33 | 117.20 | 4.000 | Yes | Yes | 2.00 |
| 392 | 26.02 | 22.69 | 2.98 | 4.41 | 1.00 | 14.10 | 8.40 | 118.43 | 4.000 | Yes | Yes | 2.00 |
| 393 | 26.09 | 19.19 | 3.07 | 4.99 | 1.00 | 11.73 | 10.09 | 118.41 | 4.000 | No | Yes | 2.00 |
| 394 | 26.17 | 16.36 | 3.16 | 5.56 | 1.00 | 9.82 | 11.90 | 116.89 | 4.000 | No | Yes | 2.00 |
| 395 | 26.23 | 14.50 | 3.23 | 6.07 | 1.00 | 8.57 | 13.49 | 115.61 | 4.000 | No | Yes | 2.00 |
| 396 | 26.29 | 13.56 | 3.28 | 6.45 | 1.00 | 7.93 | 14.54 | 115.33 | 4.000 | No | Yes | 2.00 |
| 397 | 26.37 | 13.73 | 3.27 | 6.48 | 1.00 | 8.01 | 14.49 | 116.10 | 4.000 | No | Yes | 2.00 |
| 398 | 26.46 | 14.95 | 3.23 | 6.22 | 1.00 | 8.78 | 13.45 | 118.10 | 4.000 | No | Yes | 2.00 |
| 399 | 26.55 | 16.56 | 3.18 | 5.88 | 1.00 | 9.80 | 12.25 | 120.00 | 4.000 | No | Yes | 2.00 |
| 400 | 26.60 | 18.04 | 3.14 | 5.67 | 1.00 | 10.74 | 11.37 | 122.14 | 4.000 | No | Yes | 2.00 |
| 401 | 26.70 | 18.79 | 3.12 | 5.69 | 1.00 | 11.18 | 11.11 | 124.24 | 4.000 | No | Yes | 2.00 |
| 402 | 26.78 | 19.09 | 3.12 | 5.78 | 1.00 | 11.34 | 11.11 | 125.96 | 4.000 | No | Yes | 2.00 |
| 403 | 26.87 | 19.16 | 3.10 | 5.28 | 1.00 | 11.34 | 10.61 | 120.33 | 4.000 | No | Yes | 2.00 |
| 404 | 26.94 | 19.06 | 3.05 | 4.41 | 1.00 | 11.25 | 9.74 | 109.55 | 4.000 | No | Yes | 2.00 |
| 405 | 27.03 | 18.62 | 3.03 | 3.81 | 1.00 | 10.92 | 9.23 | 100.80 | 4.000 | No | Yes | 2.00 |
| 406 | 27.13 | 17.84 | 3.05 | 3.86 | 1.00 | 10.38 | 9.61 | 99.83 | 4.000 | No | Yes | 2.00 |
| 407 | 27.18 | 15.89 | 3.14 | 4.63 | 1.00 | 9.12 | 11.41 | 104.10 | 4.000 | No | Yes | 2.00 |
| 408 | 27.27 | 14.61 | 3.20 | 5.14 | 1.00 | 8.27 | 12.75 | 105.48 | 4.000 | No | Yes | 2.00 |
| 409 | 27.32 | 14.00 | 3.23 | 5.49 | 1.00 | 7.87 | 13.55 | 106.67 | 4.000 | No | Yes | 2.00 |
| 410 | 27.37 | 14.68 | 3.21 | 5.36 | 1.00 | 8.28 | 12.99 | 107.59 | 4.000 | No | Yes | 2.00 |
| 411 | 27.41 | 15.01 | 3.20 | 5.40 | 1.00 | 8.48 | 12.84 | 108.89 | 4.000 | No | Yes | 2.00 |
| 412 | 27.46 | 15.01 | 3.21 | 5.56 | 1.00 | 8.47 | 13.04 | 110.36 | 4.000 | No | Yes | 2.00 |
| 413 | 27.51 | 15.19 | 3.22 | 5.71 | 1.00 | 8.56 | 13.12 | 112.25 | 4.000 | No | Yes | 2.00 |
| 414 | 27.61 | 15.69 | 3.21 | 5.85 | 1.00 | 8.84 | 13.00 | 114.96 | 4.000 | No | Yes | 2.00 |
| 415 | 27.66 | 16.81 | 3.20 | 6.07 | 1.00 | 9.52 | 12.66 | 120.53 | 4.000 | No | Yes | 2.00 |
| 416 | 27.73 | 19.30 | 3.15 | 6.09 | 1.00 | 11.05 | 11.59 | 128.02 | 4.000 | No | Yes | 2.00 |
| 417 | 27.80 | 22.77 | 3.09 | 6.16 | 1.00 | 13.18 | 10.46 | 137.91 | 4.000 | No | Yes | 2.00 |
| 418 | 27.88 | 26.51 | 3.05 | 6.33 | 1.00 | 15.46 | 9.62 | 148.75 | 4.000 | No | Yes | 2.00 |
| 419 | 27.96 | 28.73 | 3.04 | 6.73 | 1.00 | 16.78 | 9.46 | 158.82 | 4.000 | No | Yes | 2.00 |
| 420 | 28.04 | 29.44 | 3.06 | 7.42 | 1.00 | 17.16 | 9.86 | 169.19 | 4.000 | No | Yes | 2.00 |
| 421 | 28.12 | 29.30 | 3.09 | 8.01 | 1.00 | 17.02 | 10.34 | 175.99 | 4.000 | No | Yes | 2.00 |
| 422 | 28.18 | 29.78 | 3.09 | 8.32 | 1.00 | 17.27 | 10.47 | 180.83 | 4.000 | No | Yes | 2.00 |
| 423 | 28.27 | 30.99 | 3.07 | 8.13 | 1.00 | 17.95 | 10.11 | 181.45 | 4.000 | No | Yes | 2.00 |
| 424 | 28.32 | 32.84 | 3.04 | 7.81 | 1.00 | 19.04 | 9.54 | 181.70 | 4.000 | No | Yes | 2.00 |
| 425 | 28.42 | 34.90 | 3.01 | 7.49 | 1.00 | 20.22 | 8.98 | 181.66 | 4.000 | No | Yes | 2.00 |
| 426 | 28.47 | 37.02 | 2.99 | 7.35 | 1.00 | 21.47 | 8.57 | 183.98 | 4.000 | No | Yes | 2.00 |
| 427 | 28.61 | 38.87 | 2.97 | 7.32 | 1.00 | 22.47 | 8.32 | 186.93 | 4.000 | No | Yes | 2.00 |
| 428 | 28.67 | 40.79 | 2.96 | 7.36 | 1.00 | 23.57 | 8.10 | 190.99 | 4.000 | Yes | Yes | 2.00 |
| 429 | 28.75 | 43.62 | 2.91 | 7.10 | 0.88 | 26.58 | 7.37 | 195.90 | 4.000 | Yes | Yes | 2.00 |
| 430 | 28.81 | 49.52 | 2.83 | 6.35 | 0.86 | 30.58 | 6.28 | 192.19 | 4.000 | Yes | Yes | 2.00 |
| 431 | 28.90 | 59.16 | 2.72 | 5.28 | 0.82 | 37.21 | 4.89 | 181.92 | 4.000 | Yes | Yes | 2.00 |
| 432 | 29.00 | 70.68 | 2.60 | 4.38 | 0.79 | 45.27 | 3.75 | 169.71 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 433 | 29.05 | 82.68 | 2.50 | 3.72 | 0.76 | 53.82 | 2.95 | 158.84 | 4.000 | Yes | No | 2.00 |
| 434 | 29.10 | 92.58 | 2.42 | 3.28 | 0.73 | 60.99 | 2.48 | 151.03 | 4.000 | Yes | No | 2.00 |
| 435 | 29.15 | 101.07 | 2.35 | 2.88 | 0.71 | 67.24 | 2.13 | 143.11 | 4.000 | Yes | No | 2.00 |
| 436 | 29.24 | 105.88 | 2.30 | 2.58 | 0.70 | 70.82 | 1.92 | 136.02 | 4.000 | Yes | No | 2.00 |
| 437 | 29.29 | 107.45 | 2.26 | 2.31 | 0.69 | 72.19 | 1.78 | 128.66 | 4.000 | Yes | No | 2.00 |
| 438 | 29.37 | 106.66 | 2.23 | 2.12 | 0.68 | 71.76 | 1.71 | 122.57 | 4.000 | Yes | No | 2.00 |
| 439 | 29.43 | 105.44 | 2.21 | 1.94 | 0.67 | 71.05 | 1.64 | 116.77 | 4.000 | Yes | No | 2.00 |
| 440 | 29.53 | 104.90 | 2.19 | 1.79 | 0.66 | 70.72 | 1.59 | 112.38 | 4.000 | No | No | 2.00 |
| 441 | 29.62 | 104.73 | 2.17 | 1.69 | 0.66 | 70.61 | 1.55 | 109.62 | 4.000 | No | No | 2.00 |
| 442 | 29.68 | 104.75 | 2.15 | 1.58 | 0.65 | 70.73 | 1.51 | 106.89 | 4.000 | No | No | 2.00 |
| 443 | 29.80 | 104.42 | 2.15 | 1.54 | 0.65 | 70.36 | 1.50 | 105.63 | 4.000 | No | No | 2.00 |
| 444 | 29.91 | 103.80 | 2.15 | 1.52 | 0.65 | 69.74 | 1.50 | 104.61 | 4.000 | No | No | 2.00 |
| 445 | 30.00 | 99.10 | 2.19 | 1.66 | 0.66 | 65.97 | 1.59 | 104.86 | 0.187 | No | No | 0.61 |
| 446 | 30.07 | 97.42 | 2.21 | 1.72 | 0.67 | 64.55 | 1.63 | 105.36 | 0.189 | No | No | 0.62 |
| 447 | 30.15 | 96.27 | 2.22 | 1.75 | 0.67 | 63.56 | 1.66 | 105.54 | 0.189 | No | No | 0.62 |
| 448 | 30.21 | 99.04 | 2.20 | 1.70 | 0.67 | 65.49 | 1.62 | 105.77 | 0.190 | No | No | 0.62 |
| 449 | 30.26 | 98.71 | 2.20 | 1.71 | 0.67 | 65.16 | 1.62 | 105.66 | 0.190 | No | No | 0.62 |
| 450 | 30.31 | 97.50 | 2.21 | 1.73 | 0.67 | 64.21 | 1.64 | 105.39 | 0.189 | No | No | 0.61 |
| 451 | 30.38 | 95.52 | 2.22 | 1.75 | 0.67 | 62.65 | 1.67 | 104.86 | 0.187 | No | No | 0.61 |
| 452 | 30.45 | 92.62 | 2.24 | 1.79 | 0.68 | 60.44 | 1.72 | 104.23 | 0.185 | No | No | 0.60 |
| 453 | 30.50 | 89.12 | 2.26 | 1.84 | 0.69 | 57.84 | 1.79 | 103.72 | 0.184 | No | No | 0.60 |
| 454 | 30.55 | 84.94 | 2.29 | 1.88 | 0.69 | 54.79 | 1.88 | 102.88 | 0.181 | No | No | 0.59 |
| 455 | 30.64 | 81.19 | 2.31 | 1.91 | 0.70 | 52.03 | 1.96 | 101.83 | 0.178 | No | No | 0.58 |
| 456 | 30.70 | 77.93 | 2.32 | 1.91 | 0.70 | 49.71 | 2.01 | 100.16 | 0.173 | No | No | 0.56 |
| 457 | 30.79 | 76.04 | 2.33 | 1.90 | 0.71 | 48.30 | 2.05 | 98.96 | 0.170 | No | No | 0.55 |
| 458 | 30.84 | 75.47 | 2.33 | 1.88 | 0.71 | 47.86 | 2.05 | 98.19 | 0.168 | No | No | 0.54 |
| 459 | 30.93 | 76.95 | 2.32 | 1.86 | 0.70 | 48.79 | 2.01 | 98.05 | 0.168 | No | No | 0.54 |
| 460 | 30.98 | 80.15 | 2.30 | 1.81 | 0.70 | 50.98 | 1.93 | 98.14 | 0.168 | No | No | 0.54 |
| 461 | 31.05 | 85.34 | 2.27 | 1.76 | 0.69 | 54.54 | 1.81 | 98.98 | 0.170 | No | No | 0.55 |
| 462 | 31.13 | 91.57 | 2.24 | 1.70 | 0.68 | 58.82 | 1.71 | 100.51 | 0.174 | No | No | 0.56 |
| 463 | 31.17 | 100.46 | 2.19 | 1.61 | 0.66 | 65.08 | 1.58 | 102.97 | 0.182 | No | No | 0.58 |
| 464 | 31.27 | 110.94 | 2.13 | 1.49 | 0.65 | 72.52 | 1.47 | 106.25 | 0.192 | No | No | 0.61 |
| 465 | 31.32 | 123.23 | 2.06 | 1.34 | 0.63 | 81.52 | 1.37 | 111.37 | 0.208 | No | No | 0.67 |
| 466 | 31.41 | 133.45 | 2.00 | 1.21 | 0.61 | 89.03 | 1.31 | 116.56 | 0.227 | No | No | 0.73 |
| 467 | 31.46 | 140.90 | 1.96 | 1.11 | 0.60 | 94.67 | 1.28 | 120.72 | 0.244 | No | No | 0.78 |
| 468 | 31.52 | 144.37 | 1.93 | 1.03 | 0.59 | 97.40 | 1.26 | 122.24 | 0.250 | No | No | 0.80 |
| 469 | 31.61 | 145.01 | 1.91 | 0.97 | 0.58 | 97.95 | 1.24 | 121.83 | 0.248 | No | No | 0.79 |
| 470 | 31.66 | 142.15 | 1.91 | 0.95 | 0.58 | 95.90 | 1.24 | 119.20 | 0.238 | No | No | 0.76 |
| 471 | 31.75 | 136.69 | 1.93 | 0.97 | 0.59 | 91.66 | 1.26 | 115.29 | 0.223 | No | No | 0.71 |
| 472 | 31.80 | 129.14 | 1.98 | 1.06 | 0.60 | 85.76 | 1.29 | 110.68 | 0.206 | No | No | 0.66 |
| 473 | 31.90 | 122.00 | 2.02 | 1.16 | 0.62 | 80.16 | 1.33 | 106.52 | 0.192 | No | No | 0.61 |
| 474 | 31.94 | 116.84 | 2.06 | 1.24 | 0.63 | 76.18 | 1.37 | 104.07 | 0.185 | No | No | 0.59 |
| 475 | 32.04 | 116.03 | 2.07 | 1.27 | 0.63 | 75.33 | 1.38 | 104.00 | 0.185 | No | No | 0.59 |
| 476 | 32.09 | 119.17 | 2.08 | 1.34 | 0.63 | 77.25 | 1.39 | 107.23 | 0.195 | No | No | 0.62 |
| 477 | 32.20 | 118.70 | 2.11 | 1.46 | 0.64 | 76.38 | 1.43 | 109.06 | 0.201 | No | No | 0.63 |
| 478 | 32.24 | 117.72 | 2.13 | 1.56 | 0.65 | 75.37 | 1.47 | 110.44 | 0.205 | No | No | 0.65 |
| 479 | 32.28 | 114.69 | 2.15 | 1.64 | 0.65 | 73.02 | 1.51 | 110.26 | 0.205 | No | No | 0.65 |
| 480 | 32.29 | 116.70 | 2.14 | 1.62 | 0.65 | 74.43 | 1.49 | 111.09 | 0.207 | No | No | 0.66 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 481 | 32.30 | 118.93 | 2.13 | 1.60 | 0.65 | 75.98 | 1.47 | 112.06 | 0.211 | No | No | 0.67 |
| 482 | 32.40 | 120.51 | 2.13 | 1.59 | 0.65 | 76.91 | 1.47 | 112.71 | 0.213 | No | No | 0.67 |
| 483 | 32.45 | 120.48 | 2.13 | 1.61 | 0.65 | 76.77 | 1.47 | 112.95 | 0.214 | No | No | 0.67 |
| 484 | 32.55 | 119.13 | 2.14 | 1.63 | 0.65 | 75.61 | 1.49 | 112.51 | 0.212 | No | No | 0.67 |
| 485 | 32.59 | 118.33 | 2.15 | 1.66 | 0.65 | 74.91 | 1.50 | 112.50 | 0.212 | No | No | 0.67 |
| 486 | 32.69 | 118.13 | 2.15 | 1.68 | 0.65 | 74.54 | 1.51 | 112.79 | 0.213 | No | No | 0.67 |
| 487 | 32.76 | 118.09 | 2.16 | 1.72 | 0.66 | 74.31 | 1.53 | 113.51 | 0.216 | No | No | 0.68 |
| 488 | 32.84 | 118.40 | 2.17 | 1.75 | 0.66 | 74.31 | 1.54 | 114.35 | 0.219 | No | No | 0.69 |
| 489 | 32.90 | 119.00 | 2.17 | 1.77 | 0.66 | 74.55 | 1.55 | 115.19 | 0.222 | No | No | 0.70 |
| 490 | 32.98 | 119.95 | 2.17 | 1.78 | 0.66 | 75.02 | 1.54 | 115.83 | 0.225 | No | No | 0.70 |
| 491 | 33.06 | 121.02 | 2.17 | 1.78 | 0.66 | 75.61 | 1.54 | 116.33 | 0.226 | No | No | 0.71 |
| 492 | 33.12 | 122.10 | 2.16 | 1.78 | 0.66 | 76.23 | 1.53 | 116.77 | 0.228 | No | No | 0.71 |
| 493 | 33.22 | 122.84 | 2.16 | 1.78 | 0.66 | 76.56 | 1.53 | 117.03 | 0.229 | No | No | 0.72 |
| 494 | 33.31 | 123.21 | 2.16 | 1.78 | 0.66 | 76.64 | 1.53 | 117.14 | 0.229 | No | No | 0.72 |
| 495 | 33.37 | 123.28 | 2.16 | 1.78 | 0.66 | 76.59 | 1.53 | 117.11 | 0.229 | No | No | 0.72 |
| 496 | 33.46 | 123.28 | 2.16 | 1.78 | 0.66 | 76.41 | 1.53 | 117.00 | 0.229 | No | No | 0.71 |
| 497 | 33.55 | 123.18 | 2.17 | 1.79 | 0.66 | 76.17 | 1.54 | 117.00 | 0.229 | No | No | 0.71 |
| 498 | 33.65 | 122.98 | 2.17 | 1.80 | 0.66 | 75.83 | 1.54 | 117.07 | 0.229 | No | No | 0.71 |
| 499 | 33.70 | 122.57 | 2.17 | 1.82 | 0.66 | 75.42 | 1.55 | 117.18 | 0.230 | No | No | 0.71 |
| 500 | 33.79 | 122.03 | 2.18 | 1.84 | 0.66 | 74.86 | 1.56 | 117.10 | 0.229 | No | No | 0.71 |
| 501 | 33.89 | 121.09 | 2.18 | 1.85 | 0.66 | 74.04 | 1.58 | 116.76 | 0.228 | No | No | 0.71 |
| 502 | 33.99 | 119.77 | 2.19 | 1.86 | 0.67 | 72.98 | 1.59 | 116.20 | 0.226 | No | No | 0.70 |
| 503 | 34.04 | 117.79 | 2.20 | 1.88 | 0.67 | 71.55 | 1.61 | 115.43 | 0.223 | No | No | 0.69 |
| 504 | 34.13 | 115.49 | 2.21 | 1.89 | 0.67 | 69.85 | 1.64 | 114.59 | 0.220 | No | No | 0.68 |
| 505 | 34.23 | 112.70 | 2.22 | 1.92 | 0.68 | 67.80 | 1.68 | 113.76 | 0.217 | No | No | 0.67 |
| 506 | 34.32 | 110.27 | 2.24 | 1.95 | 0.68 | 66.01 | 1.71 | 113.20 | 0.215 | No | No | 0.66 |
| 507 | 34.37 | 108.22 | 2.25 | 1.98 | 0.68 | 64.55 | 1.75 | 112.84 | 0.214 | No | No | 0.66 |
| 508 | 34.47 | 106.60 | 2.26 | 2.00 | 0.69 | 63.31 | 1.78 | 112.69 | 0.213 | No | No | 0.66 |
| 509 | 34.55 | 103.47 | 2.28 | 2.07 | 0.69 | 61.05 | 1.85 | 112.96 | 4.000 | Yes | No | 2.00 |
| 510 | 34.63 | 96.66 | 2.33 | 2.24 | 0.71 | 56.31 | 2.04 | 114.64 | 4.000 | Yes | No | 2.00 |
| 511 | 34.73 | 86.37 | 2.40 | 2.51 | 0.73 | 49.33 | 2.40 | 118.21 | 4.000 | Yes | No | 2.00 |
| 512 | 34.80 | 72.76 | 2.51 | 2.91 | 0.76 | 40.42 | 3.06 | 123.59 | 4.000 | Yes | No | 2.00 |
| 513 | 34.90 | 60.46 | 2.62 | 3.30 | 0.79 | 32.62 | 3.90 | 127.28 | 4.000 | Yes | Yes | 2.00 |
| 514 | 35.00 | 54.92 | 2.64 | 3.21 | 0.80 | 29.29 | 4.16 | 121.79 | 3.600 | No | Yes | 2.00 |
| 515 | 35.12 | 50.37 | 2.67 | 3.15 | 0.81 | 26.54 | 4.42 | 117.31 | 3.600 | No | Yes | 2.00 |
| 516 | 35.20 | 52.86 | 2.63 | 2.87 | 0.80 | 28.11 | 3.99 | 112.19 | 3.600 | No | Yes | 2.00 |
| 517 | 35.33 | 53.65 | 2.63 | 2.95 | 0.80 | 28.43 | 4.02 | 114.42 | 4.000 | Yes | Yes | 2.00 |
| 518 | 35.41 | 63.41 | 2.53 | 2.60 | 0.77 | 34.44 | 3.20 | 110.34 | 4.000 | Yes | No | 2.00 |
| 519 | 35.44 | 68.58 | 2.48 | 2.43 | 0.75 | 37.68 | 2.87 | 108.02 | 4.000 | Yes | No | 2.00 |
| 520 | 35.48 | 76.82 | 2.41 | 2.17 | 0.73 | 42.96 | 2.42 | 103.82 | 4.000 | Yes | No | 2.00 |
| 521 | 35.57 | 84.09 | 2.35 | 1.98 | 0.71 | 47.63 | 2.12 | 101.05 | 4.000 | Yes | No | 2.00 |
| 522 | 35.62 | 98.70 | 2.24 | 1.69 | 0.68 | 57.30 | 1.73 | 98.99 | 4.000 | Yes | No | 2.00 |
| 523 | 35.67 | 115.40 | 2.14 | 1.46 | 0.65 | 68.51 | 1.49 | 102.07 | 4.000 | Yes | No | 2.00 |
| 524 | 35.71 | 137.52 | 2.04 | 1.30 | 0.62 | 83.52 | 1.35 | 112.52 | 4.000 | Yes | No | 2.00 |
| 525 | 35.82 | 159.89 | 1.96 | 1.19 | 0.60 | 98.71 | 1.28 | 126.36 | 4.000 | Yes | No | 2.00 |
| 526 | 35.86 | 185.11 | 1.89 | 1.12 | 0.58 | 116.11 | 1.23 | 143.07 | 4.000 | Yes | No | 2.00 |
| 527 | 35.93 | 207.72 | 1.84 | 1.06 | 0.56 | 131.80 | 1.19 | 156.85 | 4.000 | Yes | No | 2.00 |
| 528 | 36.01 | 225.38 | 1.80 | 1.04 | 0.55 | 144.00 | 1.16 | 166.33 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 529 | 36.06 | 235.57 | 1.79 | 1.04 | 0.54 | 150.92 | 1.14 | 171.69 | 4.000 | Yes | No | 2.00 |
| 530 | 36.12 | 240.67 | 1.78 | 1.05 | 0.54 | 154.12 | 1.13 | 174.89 | 0.578 | No | No | 1.75 |
| 531 | 36.18 | 245.05 | 1.79 | 1.08 | 0.54 | 156.73 | 1.14 | 178.20 | 0.606 | No | No | 1.84 |
| 532 | 36.25 | 248.69 | 1.79 | 1.10 | 0.54 | 158.84 | 1.14 | 180.98 | 0.631 | No | No | 1.91 |
| 533 | 36.30 | 251.52 | 1.80 | 1.14 | 0.55 | 160.26 | 1.15 | 184.12 | 0.661 | No | No | 2.00 |
| 534 | 36.39 | 252.83 | 1.81 | 1.17 | 0.55 | 160.54 | 1.16 | 185.99 | 0.678 | No | No | 2.00 |
| 535 | 36.44 | 253.07 | 1.82 | 1.21 | 0.55 | 160.15 | 1.17 | 187.57 | 0.694 | No | No | 2.00 |
| 536 | 36.53 | 251.49 | 1.83 | 1.25 | 0.56 | 158.45 | 1.18 | 187.51 | 0.693 | No | No | 2.00 |
| 537 | 36.59 | 248.39 | 1.86 | 1.34 | 0.57 | 155.45 | 1.21 | 187.43 | 0.692 | No | No | 2.00 |
| 538 | 36.68 | 243.47 | 1.87 | 1.37 | 0.57 | 151.62 | 1.22 | 184.49 | 0.664 | No | No | 2.00 |
| 539 | 36.75 | 238.34 | 1.88 | 1.38 | 0.57 | 147.93 | 1.22 | 180.99 | 0.631 | No | No | 1.91 |
| 540 | 36.83 | 232.04 | 1.88 | 1.34 | 0.57 | 143.78 | 1.22 | 175.91 | 0.586 | No | No | 1.77 |
| 541 | 36.90 | 225.27 | 1.89 | 1.35 | 0.58 | 138.95 | 1.23 | 171.34 | 0.548 | No | No | 1.65 |
| 542 | 36.97 | 217.18 | 1.92 | 1.39 | 0.58 | 133.11 | 1.25 | 166.05 | 0.506 | No | No | 1.53 |
| 543 | 37.02 | 201.72 | 1.96 | 1.49 | 0.60 | 122.19 | 1.28 | 156.23 | 0.435 | No | No | 1.31 |
| 544 | 37.04 | 193.70 | 1.99 | 1.53 | 0.60 | 116.64 | 1.30 | 151.13 | 0.401 | No | No | 1.21 |
| 545 | 37.08 | 188.61 | 2.00 | 1.54 | 0.61 | 113.19 | 1.30 | 147.61 | 0.379 | No | No | 1.14 |
| 546 | 37.17 | 191.78 | 1.97 | 1.46 | 0.60 | 115.46 | 1.29 | 148.65 | 0.385 | No | No | 1.16 |
| 547 | 37.27 | 187.30 | 1.98 | 1.44 | 0.60 | 112.45 | 1.29 | 145.04 | 0.364 | No | No | 1.09 |
| 548 | 37.37 | 181.37 | 1.99 | 1.43 | 0.60 | 108.42 | 1.30 | 140.68 | 0.339 | No | No | 1.02 |
| 549 | 37.42 | 177.21 | 1.99 | 1.39 | 0.60 | 105.83 | 1.30 | 137.22 | 0.320 | No | No | 0.96 |
| 550 | 37.51 | 175.89 | 1.97 | 1.32 | 0.60 | 105.19 | 1.29 | 135.25 | 0.310 | No | No | 0.93 |
| 551 | 37.58 | 176.97 | 1.95 | 1.22 | 0.59 | 106.34 | 1.27 | 134.76 | 0.308 | No | No | 0.92 |
| 552 | 37.66 | 179.01 | 1.92 | 1.13 | 0.58 | 108.07 | 1.25 | 135.08 | 0.309 | No | No | 0.93 |
| 553 | 37.76 | 182.58 | 1.89 | 1.05 | 0.57 | 110.83 | 1.23 | 136.26 | 0.315 | No | No | 0.95 |
| 554 | 37.85 | 186.08 | 1.86 | 0.97 | 0.57 | 113.57 | 1.21 | 137.18 | 0.320 | No | No | 0.96 |
| 555 | 37.93 | 189.62 | 1.84 | 0.92 | 0.56 | 116.22 | 1.19 | 138.14 | 0.325 | No | No | 0.97 |
| 556 | 38.04 | 192.25 | 1.82 | 0.89 | 0.55 | 117.99 | 1.18 | 138.80 | 0.329 | No | No | 0.98 |
| 557 | 38.13 | 193.87 | 1.82 | 0.88 | 0.55 | 118.97 | 1.17 | 139.30 | 0.331 | No | No | 0.99 |
| 558 | 38.18 | 193.57 | 1.82 | 0.88 | 0.55 | 118.63 | 1.17 | 139.16 | 0.331 | No | No | 0.99 |
| 559 | 38.28 | 191.24 | 1.84 | 0.92 | 0.56 | 116.58 | 1.19 | 138.51 | 0.327 | No | No | 0.98 |
| 560 | 38.37 | 187.40 | 1.86 | 0.97 | 0.57 | 113.37 | 1.21 | 137.08 | 0.320 | No | No | 0.95 |
| 561 | 38.47 | 183.55 | 1.89 | 1.06 | 0.58 | 109.99 | 1.23 | 135.63 | 0.312 | No | No | 0.93 |
| 562 | 38.57 | 180.39 | 1.92 | 1.13 | 0.58 | 107.19 | 1.25 | 134.14 | 0.304 | No | No | 0.91 |
| 563 | 38.62 | 176.78 | 1.95 | 1.21 | 0.59 | 104.23 | 1.27 | 132.48 | 0.296 | No | No | 0.88 |
| 564 | 38.72 | 167.48 | 2.00 | 1.33 | 0.61 | 97.43 | 1.31 | 127.27 | 0.272 | No | No | 0.81 |
| 565 | 38.78 | 160.21 | 2.04 | 1.42 | 0.62 | 92.19 | 1.34 | 123.72 | 0.256 | No | No | 0.76 |
| 566 | 38.81 | 155.32 | 2.06 | 1.49 | 0.63 | 88.77 | 1.37 | 121.63 | 0.247 | No | No | 0.74 |
| 567 | 38.86 | 155.19 | 2.07 | 1.50 | 0.63 | 88.54 | 1.37 | 121.68 | 0.248 | No | No | 0.74 |
| 568 | 38.91 | 152.02 | 2.08 | 1.55 | 0.63 | 86.27 | 1.40 | 120.51 | 0.243 | No | No | 0.72 |
| 569 | 38.95 | 145.92 | 2.12 | 1.64 | 0.64 | 82.06 | 1.44 | 118.55 | 0.235 | No | No | 0.70 |
| 570 | 39.05 | 139.55 | 2.15 | 1.74 | 0.65 | 77.66 | 1.51 | 116.91 | 0.229 | No | No | 0.68 |
| 571 | 39.09 | 132.37 | 2.19 | 1.84 | 0.66 | 72.88 | 1.59 | 115.64 | 0.224 | No | No | 0.67 |
| 572 | 39.14 | 125.06 | 2.23 | 1.95 | 0.68 | 68.10 | 1.69 | 114.83 | 0.221 | No | No | 0.66 |
| 573 | 39.24 | 118.19 | 2.26 | 2.05 | 0.69 | 63.61 | 1.80 | 114.32 | 0.219 | No | No | 0.65 |
| 574 | 39.29 | 112.16 | 2.30 | 2.14 | 0.70 | 59.80 | 1.91 | 114.03 | 0.218 | No | No | 0.65 |
| 575 | 39.39 | 108.48 | 2.32 | 2.20 | 0.70 | 57.39 | 1.99 | 114.16 | 0.218 | No | No | 0.65 |
| 576 | 39.43 | 109.15 | 2.31 | 2.19 | 0.70 | 57.74 | 1.98 | 114.28 | 0.219 | No | No | 0.65 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 577 | 39.53 | 115.02 | 2.28 | 2.10 | 0.69 | 61.25 | 1.86 | 113.89 | 0.217 | No | No | 0.65 |
| 578 | 39.57 | 124.17 | 2.23 | 1.94 | 0.68 | 67.01 | 1.69 | 113.55 | 0.216 | No | No | 0.64 |
| 579 | 39.68 | 130.64 | 2.19 | 1.83 | 0.67 | 71.04 | 1.60 | 113.69 | 0.217 | No | No | 0.64 |
| 580 | 39.73 | 131.95 | 2.19 | 1.80 | 0.66 | 71.83 | 1.58 | 113.53 | 0.216 | No | No | 0.64 |
| 581 | 39.81 | 129.33 | 2.20 | 1.81 | 0.67 | 70.10 | 1.60 | 112.48 | 0.212 | No | No | 0.63 |
| 582 | 39.89 | 126.37 | 2.19 | 1.75 | 0.67 | 68.39 | 1.60 | 109.51 | 0.202 | No | No | 0.60 |
| 583 | 39.96 | 125.26 | 2.18 | 1.63 | 0.66 | 68.01 | 1.56 | 105.89 | 0.190 | No | No | 0.56 |
| 584 | 40.06 | 124.52 | 2.16 | 1.53 | 0.66 | 67.75 | 1.52 | 103.14 | 0.182 | No | No | 0.54 |
| 585 | 40.15 | 122.70 | 2.17 | 1.55 | 0.66 | 66.50 | 1.54 | 102.38 | 0.180 | No | No | 0.53 |
| 586 | 40.20 | 114.41 | 2.22 | 1.70 | 0.67 | 61.03 | 1.67 | 102.07 | 0.179 | No | No | 0.53 |
| 587 | 40.24 | 108.56 | 2.26 | 1.81 | 0.69 | 57.23 | 1.79 | 102.62 | 0.181 | No | No | 0.53 |
| 588 | 40.26 | 104.17 | 2.29 | 1.90 | 0.70 | 54.45 | 1.90 | 103.22 | 0.182 | No | No | 0.54 |
| 589 | 40.27 | 107.91 | 2.27 | 1.85 | 0.69 | 56.72 | 1.82 | 103.36 | 0.183 | No | No | 0.54 |
| 590 | 40.37 | 109.77 | 2.26 | 1.84 | 0.69 | 57.73 | 1.80 | 103.81 | 0.184 | No | No | 0.55 |
| 591 | 40.42 | 111.64 | 2.26 | 1.85 | 0.69 | 58.75 | 1.78 | 104.71 | 0.187 | No | No | 0.55 |
| 592 | 40.52 | 112.38 | 2.26 | 1.87 | 0.69 | 59.02 | 1.79 | 105.44 | 0.189 | No | No | 0.56 |
| 593 | 40.56 | 115.27 | 2.25 | 1.87 | 0.68 | 60.66 | 1.76 | 106.63 | 0.193 | No | No | 0.57 |
| 594 | 40.66 | 122.24 | 2.22 | 1.81 | 0.67 | 64.78 | 1.67 | 108.06 | 0.197 | No | No | 0.58 |
| 595 | 40.70 | 131.54 | 2.18 | 1.74 | 0.66 | 70.42 | 1.57 | 110.67 | 0.206 | No | No | 0.61 |
| 596 | 40.75 | 142.59 | 2.14 | 1.67 | 0.65 | 77.15 | 1.49 | 114.79 | 0.221 | No | No | 0.65 |
| 597 | 40.85 | 153.40 | 2.11 | 1.63 | 0.64 | 83.66 | 1.43 | 119.75 | 0.240 | No | No | 0.71 |
| 598 | 40.91 | 164.05 | 2.08 | 1.59 | 0.63 | 90.16 | 1.39 | 125.10 | 0.262 | No | No | 0.77 |
| 599 | 40.96 | 174.69 | 2.04 | 1.53 | 0.62 | 96.83 | 1.35 | 130.56 | 0.287 | No | No | 0.85 |
| 600 | 41.04 | 184.27 | 2.01 | 1.47 | 0.61 | 102.87 | 1.32 | 135.59 | 0.312 | No | No | 0.92 |
| 601 | 41.09 | 193.94 | 1.98 | 1.41 | 0.60 | 109.10 | 1.29 | 141.03 | 0.341 | No | No | 1.01 |
| 602 | 41.18 | 201.90 | 1.96 | 1.36 | 0.60 | 114.17 | 1.28 | 145.57 | 0.367 | No | No | 1.08 |
| 603 | 41.23 | 207.97 | 1.94 | 1.33 | 0.59 | 118.08 | 1.26 | 149.12 | 0.388 | No | No | 1.15 |
| 604 | 41.29 | 211.58 | 1.93 | 1.31 | 0.59 | 120.37 | 1.26 | 151.17 | 0.401 | No | No | 1.19 |
| 605 | 41.38 | 212.76 | 1.93 | 1.30 | 0.59 | 120.98 | 1.25 | 151.67 | 0.404 | No | No | 1.19 |
| 606 | 41.42 | 212.09 | 1.93 | 1.31 | 0.59 | 120.40 | 1.26 | 151.21 | 0.402 | No | No | 1.19 |
| 607 | 41.52 | 210.03 | 1.94 | 1.33 | 0.59 | 118.76 | 1.26 | 149.86 | 0.393 | No | No | 1.16 |
| 608 | 41.57 | 207.27 | 1.95 | 1.36 | 0.59 | 116.72 | 1.27 | 148.26 | 0.383 | No | No | 1.13 |
| 609 | 41.62 | 204.91 | 1.96 | 1.40 | 0.60 | 114.93 | 1.28 | 146.93 | 0.375 | No | No | 1.11 |
| 610 | 41.71 | 203.13 | 1.97 | 1.43 | 0.60 | 113.45 | 1.29 | 145.89 | 0.369 | No | No | 1.09 |
| 611 | 41.76 | 202.15 | 1.98 | 1.45 | 0.60 | 112.60 | 1.29 | 145.43 | 0.366 | No | No | 1.08 |
| 612 | 41.84 | 201.65 | 1.99 | 1.47 | 0.60 | 111.98 | 1.30 | 145.17 | 0.364 | No | No | 1.08 |
| 613 | 41.91 | 201.54 | 1.99 | 1.50 | 0.61 | 111.64 | 1.30 | 145.22 | 0.365 | No | No | 1.08 |
| 614 | 41.95 | 201.75 | 2.00 | 1.52 | 0.61 | 111.52 | 1.31 | 145.53 | 0.367 | No | No | 1.08 |
| 615 | 42.01 | 202.52 | 2.00 | 1.56 | 0.61 | 111.63 | 1.31 | 146.36 | 0.372 | No | No | 1.10 |
| 616 | 42.10 | 203.57 | 2.01 | 1.60 | 0.61 | 111.82 | 1.32 | 147.40 | 0.378 | No | No | 1.11 |
| 617 | 42.15 | 204.98 | 2.02 | 1.66 | 0.61 | 112.23 | 1.33 | 148.90 | 0.387 | No | No | 1.14 |
| 618 | 42.24 | 206.03 | 2.03 | 1.70 | 0.62 | 112.44 | 1.33 | 149.94 | 0.394 | No | No | 1.16 |
| 619 | 42.28 | 206.46 | 2.03 | 1.71 | 0.62 | 112.53 | 1.34 | 150.31 | 0.396 | No | No | 1.17 |
| 620 | 42.39 | 206.26 | 2.03 | 1.70 | 0.62 | 112.27 | 1.33 | 149.81 | 0.393 | No | No | 1.16 |
| 621 | 42.43 | 206.08 | 2.02 | 1.67 | 0.62 | 112.28 | 1.33 | 149.14 | 0.389 | No | No | 1.14 |
| 622 | 42.50 | 206.11 | 2.01 | 1.62 | 0.61 | 112.45 | 1.32 | 148.36 | 0.384 | No | No | 1.13 |
| 623 | 42.58 | 206.28 | 2.00 | 1.56 | 0.61 | 112.80 | 1.31 | 147.54 | 0.379 | No | No | 1.12 |
| 624 | 42.65 | 198.95 | 2.01 | 1.55 | 0.61 | 108.28 | 1.32 | 142.73 | 0.350 | No | No | 1.03 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 625 | 42.70 | 195.88 | 2.02 | 1.54 | 0.61 | 106.39 | 1.32 | 140.58 | 0.338 | No | No | 1.00 |
| 626 | 42.73 | 193.72 | 2.02 | 1.54 | 0.61 | 105.08 | 1.32 | 139.14 | 0.331 | No | No | 0.97 |
| 627 | 42.77 | 200.19 | 1.99 | 1.47 | 0.61 | 109.31 | 1.30 | 142.31 | 0.348 | No | No | 1.02 |
| 628 | 42.82 | 203.83 | 1.98 | 1.43 | 0.60 | 111.68 | 1.29 | 144.06 | 0.358 | No | No | 1.05 |
| 629 | 42.87 | 209.12 | 1.96 | 1.39 | 0.60 | 115.10 | 1.28 | 146.92 | 0.375 | No | No | 1.10 |
| 630 | 42.91 | 215.46 | 1.94 | 1.35 | 0.59 | 119.14 | 1.26 | 150.57 | 0.397 | No | No | 1.17 |
| 631 | 42.97 | 221.76 | 1.92 | 1.32 | 0.59 | 123.09 | 1.25 | 154.27 | 0.421 | No | No | 1.24 |
| 632 | 43.02 | 226.82 | 1.92 | 1.32 | 0.58 | 126.14 | 1.25 | 157.35 | 0.442 | No | No | 1.30 |
| 633 | 43.06 | 230.49 | 1.91 | 1.33 | 0.58 | 128.19 | 1.25 | 159.72 | 0.459 | No | No | 1.35 |
| 634 | 43.11 | 234.33 | 1.91 | 1.34 | 0.58 | 130.34 | 1.24 | 162.21 | 0.477 | No | No | 1.40 |
| 635 | 43.17 | 237.93 | 1.91 | 1.35 | 0.58 | 132.40 | 1.24 | 164.40 | 0.493 | No | No | 1.45 |
| 636 | 43.21 | 242.21 | 1.90 | 1.33 | 0.58 | 135.09 | 1.23 | 166.83 | 0.512 | No | No | 1.51 |
| 637 | 43.29 | 246.19 | 1.89 | 1.30 | 0.57 | 137.59 | 1.23 | 168.85 | 0.528 | No | No | 1.55 |
| 638 | 43.34 | 250.53 | 1.87 | 1.28 | 0.57 | 140.43 | 1.22 | 171.05 | 0.545 | No | No | 1.61 |
| 639 | 43.39 | 254.11 | 1.86 | 1.25 | 0.57 | 142.76 | 1.21 | 172.71 | 0.559 | No | No | 1.65 |
| 640 | 43.45 | 256.87 | 1.85 | 1.22 | 0.56 | 144.64 | 1.20 | 173.74 | 0.568 | No | No | 1.67 |
| 641 | 43.51 | 258.25 | 1.84 | 1.18 | 0.56 | 145.84 | 1.19 | 173.50 | 0.566 | No | No | 1.66 |
| 642 | 43.59 | 258.59 | 1.82 | 1.14 | 0.56 | 146.35 | 1.18 | 172.47 | 0.557 | No | No | 1.64 |
| 643 | 43.64 | 259.19 | 1.80 | 1.07 | 0.55 | 147.38 | 1.16 | 170.73 | 0.543 | No | No | 1.60 |
| 644 | 43.70 | 259.29 | 1.78 | 1.01 | 0.54 | 148.12 | 1.13 | 168.10 | 0.522 | No | No | 1.54 |
| 645 | 43.78 | 258.35 | 1.77 | 0.96 | 0.54 | 147.98 | 1.12 | 165.08 | 0.498 | No | No | 1.47 |
| 646 | 43.88 | 255.18 | 1.77 | 0.96 | 0.54 | 145.77 | 1.12 | 163.55 | 0.487 | No | No | 1.43 |
| 647 | 43.94 | 244.77 | 1.82 | 1.04 | 0.55 | 138.10 | 1.17 | 161.52 | 0.472 | No | No | 1.39 |
| 648 | 44.04 | 234.93 | 1.86 | 1.12 | 0.57 | 130.84 | 1.21 | 157.74 | 0.445 | No | No | 1.31 |
| 649 | 44.07 | 225.87 | 1.89 | 1.21 | 0.58 | 124.41 | 1.23 | 153.31 | 0.415 | No | No | 1.22 |
| 650 | 44.12 | 223.58 | 1.90 | 1.23 | 0.58 | 122.68 | 1.24 | 152.08 | 0.407 | No | No | 1.20 |
| 651 | 44.16 | 221.15 | 1.91 | 1.25 | 0.58 | 120.94 | 1.25 | 150.70 | 0.398 | No | No | 1.17 |
| 652 | 44.21 | 218.05 | 1.93 | 1.28 | 0.59 | 118.76 | 1.25 | 148.86 | 0.387 | No | No | 1.14 |
| 653 | 44.26 | 214.65 | 1.94 | 1.30 | 0.59 | 116.39 | 1.26 | 146.86 | 0.375 | No | No | 1.10 |
| 654 | 44.31 | 210.81 | 1.95 | 1.34 | 0.59 | 113.73 | 1.27 | 144.63 | 0.361 | No | No | 1.06 |
| 655 | 44.35 | 206.97 | 1.97 | 1.37 | 0.60 | 111.11 | 1.28 | 142.44 | 0.349 | No | No | 1.03 |
| 656 | 44.40 | 203.26 | 1.98 | 1.40 | 0.60 | 108.60 | 1.29 | 140.32 | 0.337 | No | No | 0.99 |
| 657 | 44.45 | 200.16 | 1.99 | 1.43 | 0.61 | 106.49 | 1.30 | 138.56 | 0.327 | No | No | 0.96 |
| 658 | 44.50 | 197.83 | 2.00 | 1.45 | 0.61 | 104.91 | 1.31 | 137.24 | 0.320 | No | No | 0.94 |
| 659 | 44.54 | 195.81 | 2.01 | 1.47 | 0.61 | 103.53 | 1.32 | 136.15 | 0.315 | No | No | 0.93 |
| 660 | 44.60 | 193.46 | 2.02 | 1.49 | 0.61 | 101.86 | 1.32 | 134.97 | 0.309 | No | No | 0.91 |
| 661 | 44.64 | 190.96 | 2.03 | 1.53 | 0.62 | 100.11 | 1.34 | 133.85 | 0.303 | No | No | 0.89 |
| 662 | 44.69 | 188.57 | 2.05 | 1.57 | 0.62 | 98.42 | 1.35 | 132.85 | 0.298 | No | No | 0.88 |
| 663 | 44.74 | 187.78 | 2.05 | 1.59 | 0.62 | 97.76 | 1.36 | 132.59 | 0.297 | No | No | 0.87 |
| 664 | 44.79 | 187.17 | 2.06 | 1.60 | 0.62 | 97.27 | 1.36 | 132.34 | 0.296 | No | No | 0.87 |
| 665 | 44.83 | 187.71 | 2.05 | 1.60 | 0.62 | 97.52 | 1.36 | 132.53 | 0.296 | No | No | 0.87 |
| 666 | 44.88 | 188.84 | 2.05 | 1.59 | 0.62 | 98.15 | 1.35 | 132.96 | 0.299 | No | No | 0.88 |
| 667 | 44.93 | 191.20 | 2.04 | 1.57 | 0.62 | 99.52 | 1.35 | 134.02 | 0.304 | No | No | 0.89 |
| 668 | 44.98 | 193.69 | 2.03 | 1.55 | 0.62 | 100.99 | 1.34 | 135.20 | 0.310 | No | No | 0.91 |
| 669 | 45.03 | 195.31 | 2.03 | 1.54 | 0.62 | 101.90 | 1.33 | 135.95 | 0.314 | No | No | 0.92 |
| 670 | 45.08 | 196.49 | 2.03 | 1.54 | 0.62 | 102.54 | 1.33 | 136.45 | 0.316 | No | No | 0.93 |
| 671 | 45.16 | 197.53 | 2.02 | 1.52 | 0.62 | 103.08 | 1.33 | 136.81 | 0.318 | No | No | 0.94 |
| 672 | 45.19 | 198.24 | 2.02 | 1.50 | 0.61 | 103.58 | 1.32 | 136.91 | 0.319 | No | No | 0.94 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 673 | 45.27 | 198.44 | 2.01 | 1.47 | 0.61 | 103.76 | 1.32 | 136.53 | 0.317 | No | No | 0.93 |
| 674 | 45.32 | 197.56 | 2.00 | 1.44 | 0.61 | 103.38 | 1.31 | 135.53 | 0.312 | No | No | 0.92 |
| 675 | 45.37 | 195.58 | 2.00 | 1.39 | 0.61 | 102.45 | 1.31 | 133.73 | 0.302 | No | No | 0.89 |
| 676 | 45.45 | 192.44 | 1.99 | 1.35 | 0.61 | 100.80 | 1.30 | 131.17 | 0.290 | No | No | 0.85 |
| 677 | 45.51 | 187.22 | 1.99 | 1.31 | 0.61 | 97.91 | 1.30 | 127.52 | 0.273 | No | No | 0.80 |
| 678 | 45.56 | 180.52 | 2.01 | 1.31 | 0.61 | 93.92 | 1.31 | 123.37 | 4.000 | Yes | No | 2.00 |
| 679 | 45.61 | 169.84 | 2.04 | 1.36 | 0.62 | 87.34 | 1.35 | 117.60 | 4.000 | Yes | No | 2.00 |
| 680 | 45.69 | 156.32 | 2.10 | 1.48 | 0.64 | 78.89 | 1.42 | 111.79 | 4.000 | Yes | No | 2.00 |
| 681 | 45.75 | 137.42 | 2.20 | 1.74 | 0.67 | 67.17 | 1.61 | 108.19 | 4.000 | Yes | No | 2.00 |
| 682 | 45.81 | 115.31 | 2.30 | 1.96 | 0.70 | 54.45 | 1.93 | 105.04 | 4.000 | Yes | No | 2.00 |
| 683 | 45.89 | 93.28 | 2.42 | 2.23 | 0.73 | 42.25 | 2.49 | 105.10 | 4.000 | Yes | No | 2.00 |
| 684 | 45.94 | 73.36 | 2.54 | 2.43 | 0.77 | 31.83 | 3.26 | 103.73 | 4.000 | Yes | No | 2.00 |
| 685 | 46.04 | 59.21 | 2.67 | 2.85 | 0.81 | 24.44 | 4.42 | 108.05 | 4.000 | Yes | Yes | 2.00 |
| 686 | 46.08 | 46.61 | 2.83 | 3.46 | 0.86 | 18.15 | 6.18 | 112.07 | 4.000 | Yes | Yes | 2.00 |
| 687 | 46.15 | 39.94 | 2.97 | 3.96 | 1.00 | 13.37 | 8.22 | 109.85 | 4.000 | Yes | Yes | 2.00 |
| 688 | 46.17 | 36.10 | 3.03 | 4.33 | 1.00 | 11.98 | 9.26 | 110.89 | 3.600 | No | Yes | 2.00 |
| 689 | 46.18 | 36.17 | 3.02 | 4.27 | 1.00 | 12.00 | 9.18 | 110.17 | 3.600 | No | Yes | 2.00 |
| 690 | 46.23 | 36.48 | 3.01 | 4.17 | 1.00 | 12.10 | 9.03 | 109.18 | 3.600 | No | Yes | 2.00 |
| 691 | 46.27 | 37.18 | 3.00 | 4.00 | 1.00 | 12.34 | 8.72 | 107.58 | 3.600 | No | Yes | 2.00 |
| 692 | 46.32 | 38.64 | 2.96 | 3.74 | 1.00 | 12.85 | 8.20 | 105.33 | 3.600 | No | Yes | 2.00 |
| 693 | 46.41 | 40.63 | 2.89 | 3.49 | 0.87 | 15.29 | 7.01 | 107.19 | 3.600 | No | Yes | 2.00 |
| 694 | 46.47 | 43.16 | 2.85 | 3.30 | 0.86 | 16.49 | 6.44 | 106.19 | 3.600 | No | Yes | 2.00 |
| 695 | 46.52 | 45.45 | 2.82 | 3.23 | 0.85 | 17.54 | 6.09 | 106.89 | 3.600 | No | Yes | 2.00 |
| 696 | 46.56 | 47.57 | 2.81 | 3.31 | 0.85 | 18.46 | 5.95 | 109.81 | 3.600 | No | Yes | 2.00 |
| 697 | 46.65 | 49.42 | 2.80 | 3.44 | 0.85 | 19.21 | 5.91 | 113.60 | 3.600 | No | Yes | 2.00 |
| 698 | 46.71 | 51.52 | 2.80 | 3.58 | 0.85 | 20.07 | 5.86 | 117.68 | 3.600 | No | Yes | 2.00 |
| 699 | 46.76 | 54.41 | 2.78 | 3.59 | 0.84 | 21.37 | 5.62 | 120.04 | 3.600 | No | Yes | 2.00 |
| 700 | 46.85 | 58.19 | 2.75 | 3.48 | 0.83 | 23.13 | 5.21 | 120.43 | 3.600 | No | Yes | 2.00 |
| 701 | 46.90 | 63.28 | 2.69 | 3.26 | 0.82 | 25.63 | 4.63 | 118.71 | 3.600 | No | Yes | 2.00 |
| 702 | 46.99 | 67.89 | 2.65 | 3.04 | 0.80 | 27.93 | 4.16 | 116.19 | 3.600 | No | Yes | 2.00 |
| 703 | 47.04 | 70.35 | 2.62 | 2.93 | 0.79 | 29.16 | 3.93 | 114.63 | 3.600 | No | Yes | 2.00 |
| 704 | 47.10 | 69.50 | 2.63 | 2.95 | 0.80 | 28.71 | 4.00 | 114.71 | 3.600 | No | Yes | 2.00 |
| 705 | 47.16 | 65.45 | 2.67 | 3.09 | 0.81 | 26.63 | 4.36 | 116.10 | 3.600 | No | Yes | 2.00 |
| 706 | 47.23 | 59.62 | 2.72 | 3.30 | 0.82 | 23.71 | 4.94 | 117.23 | 3.600 | No | Yes | 2.00 |
| 707 | 47.30 | 51.46 | 2.81 | 3.62 | 0.85 | 19.76 | 5.97 | 117.96 | 3.600 | No | Yes | 2.00 |
| 708 | 47.38 | 42.76 | 2.96 | 4.09 | 1.00 | 13.97 | 8.12 | 113.48 | 3.600 | No | Yes | 2.00 |
| 709 | 47.43 | 34.23 | 3.08 | 4.68 | 1.00 | 10.97 | 10.19 | 111.84 | 3.600 | No | Yes | 2.00 |
| 710 | 47.52 | 28.17 | 3.17 | 4.93 | 1.00 | 8.83 | 11.99 | 105.92 | 3.600 | No | Yes | 2.00 |
| 711 | 47.59 | 23.92 | 3.20 | 4.34 | 1.00 | 7.34 | 12.70 | 93.23 | 3.600 | No | Yes | 2.00 |
| 712 | 47.66 | 21.40 | 3.20 | 3.59 | 1.00 | 6.45 | 12.70 | 81.89 | 3.600 | No | Yes | 2.00 |
| 713 | 47.77 | 19.71 | 3.20 | 3.13 | 1.00 | 5.85 | 12.77 | 74.67 | 3.600 | No | Yes | 2.00 |
| 714 | 47.82 | 18.77 | 3.24 | 3.41 | 1.00 | 5.51 | 13.75 | 75.76 | 3.600 | No | Yes | 2.00 |
| 715 | 47.91 | 18.38 | 3.26 | 3.59 | 1.00 | 5.37 | 14.28 | 76.63 | 3.600 | No | Yes | 2.00 |
| 716 | 47.93 | 17.68 | 3.30 | 3.86 | 1.00 | 5.12 | 15.17 | 77.65 | 3.600 | No | Yes | 2.00 |
| 717 | 47.97 | 17.78 | 3.30 | 3.92 | 1.00 | 5.15 | 15.21 | 78.37 | 3.600 | No | Yes | 2.00 |
| 718 | 48.02 | 17.86 | 3.31 | 4.05 | 1.00 | 5.17 | 15.38 | 79.56 | 3.600 | No | Yes | 2.00 |
| 719 | 48.07 | 18.51 | 3.30 | 4.11 | 1.00 | 5.39 | 15.07 | 81.21 | 3.600 | No | Yes | 2.00 |
| 720 | 48.12 | 18.61 | 3.31 | 4.43 | 1.00 | 5.42 | 15.51 | 84.04 | 3.600 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 721 | 48.19 | 18.71 | 3.33 | 4.73 | 1.00 | 5.44 | 15.90 | 86.54 | 3.600 | No | Yes | 2.00 |
| 722 | 48.23 | 18.91 | 3.33 | 4.96 | 1.00 | 5.51 | 16.11 | 88.74 | 3.600 | No | Yes | 2.00 |
| 723 | 48.31 | 19.15 | 3.33 | 5.05 | 1.00 | 5.58 | 16.11 | 89.88 | 3.600 | No | Yes | 2.00 |
| 724 | 48.35 | 19.35 | 3.33 | 5.13 | 1.00 | 5.64 | 16.11 | 90.92 | 3.600 | No | Yes | 2.00 |
| 725 | 48.40 | 19.25 | 3.34 | 5.27 | 1.00 | 5.60 | 16.37 | 91.72 | 3.600 | No | Yes | 2.00 |
| 726 | 48.45 | 18.81 | 3.36 | 5.50 | 1.00 | 5.45 | 16.96 | 92.39 | 3.600 | No | Yes | 2.00 |
| 727 | 48.50 | 18.07 | 3.40 | 5.83 | 1.00 | 5.19 | 17.92 | 92.93 | 3.600 | No | Yes | 2.00 |
| 728 | 48.55 | 17.80 | 3.41 | 6.00 | 1.00 | 5.09 | 18.35 | 93.37 | 3.600 | No | Yes | 2.00 |
| 729 | 48.59 | 17.64 | 3.42 | 6.20 | 1.00 | 5.03 | 18.75 | 94.24 | 3.600 | No | Yes | 2.00 |
| 730 | 48.67 | 17.87 | 3.42 | 6.18 | 1.00 | 5.10 | 18.56 | 94.62 | 3.600 | No | Yes | 2.00 |
| 731 | 48.73 | 17.84 | 3.42 | 6.16 | 1.00 | 5.08 | 18.58 | 94.36 | 3.600 | No | Yes | 2.00 |
| 732 | 48.78 | 17.97 | 3.40 | 5.89 | 1.00 | 5.12 | 18.13 | 92.80 | 3.600 | No | Yes | 2.00 |
| 733 | 48.83 | 17.97 | 3.39 | 5.58 | 1.00 | 5.11 | 17.74 | 90.68 | 3.600 | No | Yes | 2.00 |
| 734 | 48.91 | 17.94 | 3.38 | 5.27 | 1.00 | 5.09 | 17.35 | 88.35 | 3.600 | No | Yes | 2.00 |
| 735 | 48.98 | 17.84 | 3.37 | 5.04 | 1.00 | 5.05 | 17.10 | 86.35 | 3.600 | No | Yes | 2.00 |
| 736 | 49.03 | 17.74 | 3.37 | 4.91 | 1.00 | 5.01 | 17.00 | 85.19 | 3.600 | No | Yes | 2.00 |
| 737 | 49.12 | 17.68 | 3.35 | 4.63 | 1.00 | 4.98 | 16.65 | 82.90 | 3.600 | No | Yes | 2.00 |
| 738 | 49.17 | 17.75 | 3.33 | 4.17 | 1.00 | 5.00 | 15.91 | 79.48 | 3.600 | No | Yes | 2.00 |
| 739 | 49.27 | 18.02 | 3.30 | 3.75 | 1.00 | 5.08 | 15.07 | 76.51 | 3.600 | No | Yes | 2.00 |
| 740 | 49.31 | 18.56 | 3.28 | 3.65 | 1.00 | 5.25 | 14.57 | 76.55 | 3.600 | No | Yes | 2.00 |
| 741 | 49.38 | 19.20 | 3.27 | 3.79 | 1.00 | 5.46 | 14.44 | 78.88 | 3.600 | No | Yes | 2.00 |
| 742 | 49.45 | 19.70 | 3.27 | 3.95 | 1.00 | 5.62 | 14.44 | 81.15 | 3.600 | No | Yes | 2.00 |
| 743 | 49.51 | 19.00 | 3.31 | 4.33 | 1.00 | 5.38 | 15.44 | 83.00 | 3.600 | No | Yes | 2.00 |
| 744 | 49.54 | 19.44 | 3.30 | 4.37 | 1.00 | 5.52 | 15.24 | 84.13 | 3.600 | No | Yes | 2.00 |
| 745 | 49.59 | 20.18 | 3.28 | 4.25 | 1.00 | 5.76 | 14.65 | 84.45 | 3.600 | No | Yes | 2.00 |
| 746 | 49.64 | 21.53 | 3.23 | 3.89 | 1.00 | 6.21 | 13.47 | 83.63 | 3.600 | No | Yes | 2.00 |
| 747 | 49.73 | 21.20 | 3.24 | 3.89 | 1.00 | 6.09 | 13.64 | 83.01 | 3.600 | No | Yes | 2.00 |
| 748 | 49.83 | 20.02 | 3.27 | 4.07 | 1.00 | 5.68 | 14.52 | 82.47 | 3.600 | No | Yes | 2.00 |
| 749 | 49.92 | 18.88 | 3.31 | 4.30 | 1.00 | 5.29 | 15.55 | 82.19 | 3.600 | No | Yes | 2.00 |
| 750 | 49.98 | 17.86 | 3.35 | 4.49 | 1.00 | 4.94 | 16.51 | 81.62 | 3.600 | No | Yes | 2.00 |
| 751 | 50.07 | 17.33 | 3.37 | 4.57 | 1.00 | 4.75 | 17.04 | 81.01 | 3.600 | No | Yes | 2.00 |
| 752 | 50.16 | 16.99 | 3.38 | 4.61 | 1.00 | 4.63 | 17.38 | 80.51 | 3.600 | No | Yes | 2.00 |
| 753 | 50.24 | 16.69 | 3.39 | 4.65 | 1.00 | 4.52 | 17.70 | 80.06 | 3.600 | No | Yes | 2.00 |
| 754 | 50.32 | 16.46 | 3.40 | 4.71 | 1.00 | 4.44 | 17.99 | 79.87 | 3.600 | No | Yes | 2.00 |
| 755 | 50.41 | 16.32 | 3.41 | 4.79 | 1.00 | 4.39 | 18.25 | 80.02 | 3.600 | No | Yes | 2.00 |
| 756 | 50.50 | 16.36 | 3.41 | 4.79 | 1.00 | 4.39 | 18.25 | 80.09 | 3.600 | No | Yes | 2.00 |
| 757 | 50.56 | 16.26 | 3.41 | 4.73 | 1.00 | 4.35 | 18.25 | 79.36 | 3.600 | No | Yes | 2.00 |
| 758 | 50.66 | 16.09 | 3.41 | 4.63 | 1.00 | 4.28 | 18.27 | 78.27 | 3.600 | No | Yes | 2.00 |
| 759 | 50.74 | 15.92 | 3.41 | 4.59 | 1.00 | 4.22 | 18.37 | 77.53 | 3.600 | No | Yes | 2.00 |
| 760 | 50.84 | 15.85 | 3.43 | 4.94 | 1.00 | 4.19 | 19.00 | 79.62 | 3.600 | No | Yes | 2.00 |
| 761 | 50.93 | 15.95 | 3.46 | 5.57 | 1.00 | 4.21 | 19.91 | 83.88 | 3.600 | No | Yes | 2.00 |
| 762 | 50.98 | 16.77 | 3.48 | 6.56 | 1.00 | 4.47 | 20.59 | 92.08 | 3.600 | No | Yes | 2.00 |
| 763 | 51.08 | 19.60 | 3.43 | 7.08 | 1.00 | 5.39 | 19.08 | 102.75 | 3.600 | No | Yes | 2.00 |
| 764 | 51.17 | 24.45 | 3.34 | 6.97 | 1.00 | 6.95 | 16.30 | 113.31 | 3.600 | No | Yes | 2.00 |
| 765 | 51.24 | 30.11 | 3.25 | 6.75 | 1.00 | 8.78 | 13.98 | 122.80 | 3.600 | No | Yes | 2.00 |
| 766 | 51.34 | 33.65 | 3.21 | 6.76 | 1.00 | 9.91 | 13.03 | 129.12 | 3.600 | No | Yes | 2.00 |
| 767 | 51.41 | 34.16 | 3.18 | 6.01 | 1.00 | 10.06 | 12.19 | 122.59 | 3.600 | No | Yes | 2.00 |
| 768 | 51.51 | 32.81 | 3.17 | 5.54 | 1.00 | 9.60 | 12.05 | 115.66 | 3.600 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 769 | 51.58 | 31.20 | 3.16 | 4.92 | 1.00 | 9.06 | 11.80 | 106.93 | 3.600 | No | Yes | 2.00 |
| 770 | 51.68 | 29.95 | 3.20 | 5.43 | 1.00 | 8.64 | 12.73 | 109.98 | 3.600 | No | Yes | 2.00 |
| 771 | 51.79 | 27.39 | 3.26 | 5.93 | 1.00 | 7.80 | 14.12 | 110.16 | 3.600 | No | Yes | 2.00 |
| 772 | 51.82 | 25.87 | 3.30 | 6.27 | 1.00 | 7.31 | 15.07 | 110.15 | 3.600 | No | Yes | 2.00 |
| 773 | 51.85 | 24.39 | 3.34 | 6.78 | 1.00 | 6.83 | 16.27 | 111.07 | 3.600 | No | Yes | 2.00 |
| 774 | 51.91 | 25.00 | 3.34 | 6.90 | 1.00 | 7.01 | 16.14 | 113.23 | 3.600 | No | Yes | 2.00 |
| 775 | 52.00 | 24.87 | 3.36 | 7.36 | 1.00 | 6.96 | 16.71 | 116.25 | 3.600 | No | Yes | 2.00 |
| 776 | 52.05 | 27.06 | 3.31 | 7.10 | 1.00 | 7.65 | 15.54 | 118.92 | 3.600 | No | Yes | 2.00 |
| 777 | 52.10 | 31.78 | 3.21 | 6.10 | 1.00 | 9.15 | 13.00 | 118.95 | 3.600 | No | Yes | 2.00 |
| 778 | 52.19 | 38.49 | 3.08 | 4.92 | 1.00 | 11.27 | 10.28 | 115.81 | 3.600 | No | Yes | 2.00 |
| 779 | 52.28 | 44.04 | 2.99 | 4.15 | 1.00 | 13.02 | 8.58 | 111.69 | 3.600 | No | Yes | 2.00 |
| 780 | 52.34 | 46.37 | 2.95 | 3.85 | 1.00 | 13.74 | 7.96 | 109.32 | 3.600 | No | Yes | 2.00 |
| 781 | 52.42 | 46.09 | 2.96 | 3.90 | 1.00 | 13.63 | 8.05 | 109.66 | 3.600 | No | Yes | 2.00 |
| 782 | 52.48 | 44.34 | 2.98 | 4.10 | 1.00 | 13.05 | 8.50 | 111.03 | 3.600 | No | Yes | 2.00 |
| 783 | 52.57 | 42.32 | 3.01 | 4.26 | 1.00 | 12.39 | 8.98 | 111.27 | 3.600 | No | Yes | 2.00 |
| 784 | 52.62 | 40.26 | 3.03 | 4.31 | 1.00 | 11.73 | 9.37 | 109.88 | 3.600 | No | Yes | 2.00 |
| 785 | 52.69 | 38.51 | 3.05 | 4.22 | 1.00 | 11.16 | 9.58 | 106.89 | 3.600 | No | Yes | 2.00 |
| 786 | 52.77 | 36.89 | 3.06 | 4.17 | 1.00 | 10.63 | 9.83 | 104.50 | 3.600 | No | Yes | 2.00 |
| 787 | 52.87 | 35.55 | 3.08 | 4.24 | 1.00 | 10.19 | 10.19 | 103.83 | 3.600 | No | Yes | 2.00 |
| 788 | 52.91 | 34.07 | 3.10 | 4.28 | 1.00 | 9.71 | 10.56 | 102.56 | 3.600 | No | Yes | 2.00 |
| 789 | 53.01 | 32.55 | 3.12 | 4.42 | 1.00 | 9.21 | 11.08 | 102.13 | 3.600 | No | Yes | 2.00 |
| 790 | 53.10 | 32.18 | 3.14 | 4.56 | 1.00 | 9.08 | 11.35 | 103.11 | 3.600 | No | Yes | 2.00 |
| 791 | 53.16 | 34.04 | 3.15 | 5.28 | 1.00 | 9.65 | 11.74 | 113.26 | 3.600 | No | Yes | 2.00 |
| 792 | 53.25 | 38.69 | 3.13 | 5.64 | 1.00 | 11.08 | 11.13 | 123.32 | 3.600 | No | Yes | 2.00 |
| 793 | 53.29 | 44.28 | 3.10 | 6.15 | 1.00 | 12.82 | 10.63 | 136.25 | 3.600 | No | Yes | 2.00 |
| 794 | 53.38 | 48.90 | 3.07 | 6.34 | 1.00 | 14.23 | 10.13 | 144.18 | 3.600 | No | Yes | 2.00 |
| 795 | 53.42 | 59.32 | 2.99 | 5.88 | 1.00 | 17.47 | 8.56 | 149.47 | 3.600 | No | Yes | 2.00 |
| 796 | 53.47 | 74.66 | 2.87 | 5.11 | 1.00 | 22.21 | 6.75 | 150.02 | 3.600 | No | Yes | 2.00 |
| 797 | 53.52 | 92.88 | 2.76 | 4.46 | 1.00 | 27.85 | 5.32 | 148.22 | 3.600 | No | Yes | 2.00 |
| 798 | 53.58 | 102.94 | 2.72 | 4.44 | 1.00 | 30.94 | 4.93 | 152.55 | 3.600 | No | Yes | 2.00 |
| 799 | 53.66 | 103.80 | 2.74 | 4.76 | 1.00 | 31.15 | 5.14 | 160.18 | 3.600 | No | Yes | 2.00 |
| 800 | 53.75 | 98.64 | 2.79 | 5.33 | 1.00 | 29.50 | 5.74 | 169.41 | 3.600 | No | Yes | 2.00 |
| 801 | 53.81 | 88.93 | 2.86 | 5.98 | 1.00 | 26.46 | 6.64 | 175.67 | 3.600 | No | Yes | 2.00 |
| 802 | 53.87 | 78.89 | 2.93 | 6.58 | 1.00 | 23.33 | 7.63 | 177.89 | 3.600 | No | Yes | 2.00 |
| 803 | 53.95 | 67.24 | 3.02 | 7.41 | 1.00 | 19.70 | 9.07 | 178.71 | 3.600 | No | Yes | 2.00 |
| 804 | 54.01 | 57.35 | 3.10 | 8.28 | 1.00 | 16.64 | 10.67 | 177.57 | 3.600 | No | Yes | 2.00 |
| 805 | 54.06 | 47.51 | 3.20 | 9.23 | 1.00 | 13.60 | 12.71 | 172.90 | 3.600 | No | Yes | 2.00 |
| 806 | 54.15 | 41.78 | 3.26 | 9.77 | 1.00 | 11.83 | 14.16 | 167.57 | 3.600 | No | Yes | 2.00 |
| 807 | 54.20 | 40.60 | 3.27 | 9.77 | 1.00 | 11.46 | 14.42 | 165.24 | 3.600 | No | Yes | 2.00 |
| 808 | 54.29 | 47.57 | 3.17 | 8.38 | 1.00 | 13.59 | 12.09 | 164.23 | 3.600 | No | Yes | 2.00 |
| 809 | 54.34 | 69.40 | 2.89 | 4.90 | 1.00 | 20.27 | 7.00 | 141.87 | 4.000 | Yes | Yes | 2.00 |
| 810 | 54.43 | 100.37 | 2.59 | 2.67 | 1.00 | 29.73 | 3.65 | 108.63 | 4.000 | Yes | No | 2.00 |
| 811 | 54.45 | 137.16 | 2.32 | 1.48 | 1.00 | 41.00 | 2.00 | 82.07 | 4.000 | Yes | No | 2.00 |
| 812 | 54.48 | 166.07 | 2.20 | 1.22 | 1.00 | 49.83 | 1.62 | 80.59 | 4.000 | Yes | No | 2.00 |
| 813 | 54.52 | 185.51 | 2.14 | 1.11 | 1.00 | 55.76 | 1.48 | 82.69 | 4.000 | Yes | No | 2.00 |
| 814 | 54.53 | 198.85 | 2.12 | 1.13 | 1.00 | 59.83 | 1.45 | 86.57 | 4.000 | Yes | No | 2.00 |
| 815 | 54.58 | 207.94 | 2.11 | 1.17 | 1.00 | 62.58 | 1.44 | 89.91 | 0.148 | No | No | 0.45 |
| 816 | 54.62 | 219.64 | 2.10 | 1.19 | 1.00 | 66.13 | 1.42 | 93.59 | 0.156 | No | No | 0.47 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 817 | 54.65 | 233.46 | 2.07 | 1.16 | 1.00 | 70.33 | 1.38 | 96.81 | 0.164 | No | No | 0.50 |
| 818 | 54.70 | 244.67 | 2.05 | 1.15 | 1.00 | 73.72 | 1.36 | 99.98 | 0.173 | No | No | 0.52 |
| 819 | 54.76 | 251.12 | 2.05 | 1.17 | 1.00 | 75.64 | 1.35 | 102.23 | 0.179 | No | No | 0.54 |
| 820 | 54.77 | 249.88 | 2.06 | 1.22 | 1.00 | 75.25 | 1.37 | 102.77 | 0.181 | No | No | 0.55 |
| 821 | 54.82 | 251.50 | 2.06 | 1.21 | 1.00 | 75.71 | 1.36 | 103.16 | 0.182 | No | No | 0.55 |
| 822 | 54.87 | 253.07 | 2.05 | 1.21 | 1.00 | 76.14 | 1.36 | 103.55 | 0.183 | No | No | 0.56 |
| 823 | 54.88 | 255.63 | 2.05 | 1.20 | 1.00 | 76.92 | 1.35 | 104.08 | 0.185 | No | No | 0.56 |
| 824 | 54.91 | 257.28 | 2.05 | 1.20 | 1.00 | 77.39 | 1.35 | 104.56 | 0.186 | No | No | 0.56 |
| 825 | 54.96 | 263.42 | 2.04 | 1.18 | 1.00 | 79.22 | 1.34 | 106.09 | 0.191 | No | No | 0.58 |
| 826 | 54.97 | 276.70 | 2.01 | 1.17 | 1.00 | 83.26 | 1.32 | 109.90 | 0.203 | No | No | 0.62 |
| 827 | 55.03 | 294.89 | 1.99 | 1.17 | 1.00 | 88.74 | 1.30 | 115.47 | 0.223 | No | No | 0.68 |
| 828 | 55.09 | 315.21 | 1.96 | 1.11 | 1.00 | 94.86 | 1.27 | 120.89 | 0.244 | No | No | 0.74 |
| 829 | 55.15 | 327.84 | 1.89 | 0.92 | 1.00 | 98.63 | 1.23 | 121.55 | 0.247 | No | No | 0.75 |
| 830 | 55.20 | 338.35 | 1.85 | 0.83 | 1.00 | 101.77 | 1.20 | 122.41 | 0.251 | No | No | 0.76 |
| 831 | 55.25 | 358.17 | 1.78 | 0.67 | 1.00 | 107.74 | 1.13 | 121.49 | 0.247 | No | No | 0.75 |
| 832 | 55.30 | 386.84 | 1.77 | 0.71 | 1.00 | 116.38 | 1.11 | 129.28 | 0.281 | No | No | 0.85 |
| 833 | 55.34 | 417.50 | 1.74 | 0.72 | 1.00 | 125.63 | 1.07 | 134.62 | 0.307 | No | No | 0.93 |
| 834 | 55.39 | 440.05 | 1.76 | 0.82 | 1.00 | 132.40 | 1.10 | 146.03 | 0.370 | No | No | 1.12 |
| 835 | 55.40 | 462.28 | 1.76 | 0.87 | 1.00 | 139.13 | 1.10 | 153.71 | 0.418 | No | No | 1.27 |
| 836 | 55.44 | 482.80 | 1.75 | 0.87 | 1.00 | 145.29 | 1.08 | 157.35 | 0.442 | No | No | 1.34 |
| 837 | 55.44 | 511.21 | 1.72 | 0.83 | 1.00 | 153.88 | 1.02 | 157.04 | 0.440 | No | No | 1.34 |
| 838 | 55.49 | 517.76 | 1.72 | 0.86 | 1.00 | 155.78 | 1.03 | 160.78 | 0.467 | No | No | 1.42 |
| 839 | 55.54 | 533.43 | 1.73 | 0.91 | 1.00 | 160.44 | 1.05 | 167.71 | 0.519 | No | No | 1.58 |
| 840 | 55.59 | 534.98 | 1.76 | 1.00 | 1.00 | 160.82 | 1.10 | 176.17 | 0.588 | No | No | 1.79 |
| 841 | 55.63 | 551.08 | 1.75 | 1.02 | 1.00 | 165.61 | 1.09 | 180.34 | 0.625 | No | No | 1.90 |
| 842 | 55.64 | 553.47 | 1.75 | 1.02 | 1.00 | 166.31 | 1.09 | 180.79 | 0.630 | No | No | 1.91 |
| 843 | 55.68 | 566.94 | 1.73 | 0.98 | 1.00 | 170.31 | 1.06 | 179.92 | 0.622 | No | No | 1.89 |
| 844 | 55.69 | 570.38 | 1.73 | 0.97 | 1.00 | 171.33 | 1.04 | 178.50 | 0.609 | No | No | 1.85 |
| 845 | 55.69 | 566.17 | 1.73 | 0.98 | 1.00 | 170.04 | 1.05 | 179.38 | 0.617 | No | No | 1.88 |
| 846 | 55.71 | 561.62 | 1.75 | 1.03 | 1.00 | 168.63 | 1.09 | 183.08 | 0.651 | No | No | 1.98 |
| 847 | 55.76 | 567.28 | 1.76 | 1.06 | 1.00 | 170.25 | 1.10 | 186.45 | 0.683 | No | No | 2.00 |
| 848 | 55.78 | 580.19 | 1.75 | 1.05 | 1.00 | 174.11 | 1.08 | 187.85 | 0.696 | No | No | 2.00 |
| 849 | 55.81 | 581.23 | 1.72 | 0.98 | 1.00 | 174.36 | 1.04 | 180.96 | 0.631 | No | No | 1.92 |
| 850 | 55.85 | 584.16 | 1.69 | 0.88 | 1.00 | 175.16 | 1.00 | 175.16 | 0.580 | No | No | 1.77 |
| 851 | 55.86 | 588.34 | 1.65 | 0.77 | 1.00 | 176.41 | 1.00 | 176.41 | 0.591 | No | No | 1.80 |
| 852 | 55.91 | 598.65 | 1.62 | 0.70 | 1.00 | 179.42 | 1.00 | 179.42 | 0.617 | No | No | 1.88 |
| 853 | 55.92 | 602.25 | 1.60 | 0.66 | 1.00 | 180.48 | 1.00 | 180.48 | 0.627 | No | No | 1.91 |
| 854 | 55.96 | 619.03 | 1.58 | 0.63 | 1.00 | 185.46 | 1.00 | 185.46 | 0.673 | No | No | 2.00 |
| 855 | 55.97 | 634.09 | 1.57 | 0.63 | 1.00 | 189.98 | 1.00 | 189.98 | 0.718 | No | No | 2.00 |
| 856 | 56.00 | 654.37 | 1.56 | 0.64 | 1.00 | 196.01 | 1.00 | 196.01 | 0.780 | No | No | 2.00 |
| 857 | 56.01 | 660.12 | 1.58 | 0.69 | 1.00 | 197.72 | 1.00 | 197.72 | 0.799 | No | No | 2.00 |
| 858 | 56.03 | 661.79 | 1.59 | 0.72 | 1.00 | 198.18 | 1.00 | 198.18 | 0.804 | No | No | 2.00 |
| 859 | 56.05 | 661.82 | 1.60 | 0.74 | 1.00 | 198.14 | 1.00 | 198.14 | 0.803 | No | No | 2.00 |
| 860 | 56.10 | 665.04 | 1.60 | 0.73 | 1.00 | 198.99 | 1.00 | 198.99 | 0.813 | No | No | 2.00 |
| 861 | 56.12 | 668.02 | 1.58 | 0.70 | 1.00 | 199.86 | 1.00 | 199.86 | 0.822 | No | No | 2.00 |
| 862 | 56.16 | 667.69 | 1.57 | 0.68 | 1.00 | 199.67 | 1.00 | 199.67 | 0.820 | No | No | 2.00 |
| 863 | 56.17 | 654.78 | 1.57 | 0.67 | 1.00 | 195.76 | 1.00 | 195.76 | 0.778 | No | No | 2.00 |
| 864 | 56.20 | 635.11 | 1.59 | 0.69 | 1.00 | 189.78 | 1.00 | 189.78 | 0.716 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 865 | 56.22 | 617.48 | 1.61 | 0.71 | 1.00 | 184.46 | 1.00 | 184.46 | 0.664 | No | No | 2.00 |
| 866 | 56.24 | 608.45 | 1.61 | 0.71 | 1.00 | 181.69 | 1.00 | 181.69 | 0.638 | No | No | 1.95 |
| 867 | 56.30 | 602.69 | 1.62 | 0.70 | 1.00 | 179.84 | 1.00 | 179.84 | 0.621 | No | No | 1.89 |
| 868 | 56.31 | 595.69 | 1.63 | 0.72 | 1.00 | 177.72 | 1.00 | 177.72 | 0.602 | No | No | 1.84 |
| 869 | 56.34 | 586.22 | 1.65 | 0.77 | 1.00 | 174.82 | 1.00 | 174.82 | 0.577 | No | No | 1.76 |
| 870 | 56.39 | 579.04 | 1.66 | 0.78 | 1.00 | 172.57 | 1.00 | 172.57 | 0.558 | No | No | 1.70 |
| 871 | 56.45 | 572.30 | 1.67 | 0.79 | 1.00 | 170.44 | 1.00 | 170.44 | 0.540 | No | No | 1.65 |
| 872 | 56.48 | 565.39 | 1.67 | 0.79 | 1.00 | 168.31 | 1.00 | 168.31 | 0.523 | No | No | 1.60 |
| 873 | 56.49 | 555.45 | 1.70 | 0.85 | 1.00 | 165.32 | 1.00 | 165.32 | 0.500 | No | No | 1.53 |
| 874 | 56.53 | 542.15 | 1.73 | 0.91 | 1.00 | 161.25 | 1.05 | 168.57 | 0.525 | No | No | 1.60 |
| 875 | 56.58 | 529.04 | 1.75 | 0.94 | 1.00 | 157.24 | 1.08 | 169.38 | 0.532 | No | No | 1.62 |
| 876 | 56.63 | 524.73 | 1.67 | 0.72 | 1.00 | 155.86 | 1.00 | 155.86 | 0.432 | No | No | 1.32 |
| 877 | 56.68 | 526.01 | 1.58 | 0.52 | 1.00 | 156.17 | 1.00 | 156.17 | 0.434 | No | No | 1.33 |
| 878 | 56.73 | 531.33 | 1.53 | 0.43 | 1.00 | 157.68 | 1.00 | 157.68 | 0.445 | No | No | 1.36 |
| 879 | 56.78 | 526.31 | 1.62 | 0.60 | 1.00 | 156.09 | 1.00 | 156.09 | 0.434 | No | No | 1.33 |
| 880 | 56.83 | 517.99 | 1.69 | 0.76 | 1.00 | 153.53 | 1.00 | 153.53 | 0.417 | No | No | 1.27 |
| 881 | 56.89 | 503.37 | 1.73 | 0.85 | 1.00 | 149.05 | 1.06 | 157.35 | 0.442 | No | No | 1.35 |
| 882 | 56.95 | 485.04 | 1.77 | 0.94 | 1.00 | 143.50 | 1.12 | 160.76 | 0.466 | No | No | 1.43 |
| 883 | 56.99 | 470.25 | 1.81 | 1.02 | 1.00 | 139.02 | 1.16 | 161.37 | 0.471 | No | No | 1.44 |
| 884 | 57.01 | 460.92 | 1.83 | 1.07 | 1.00 | 136.23 | 1.18 | 160.98 | 0.468 | No | No | 1.43 |
| 885 | 57.04 | 461.73 | 1.82 | 1.05 | 1.00 | 136.41 | 1.18 | 160.65 | 0.466 | No | No | 1.43 |
| 886 | 57.09 | 468.20 | 1.81 | 1.02 | 1.00 | 138.26 | 1.17 | 161.13 | 0.469 | No | No | 1.44 |
| 887 | 57.11 | 477.43 | 1.81 | 1.03 | 1.00 | 140.98 | 1.16 | 163.57 | 0.487 | No | No | 1.49 |
| 888 | 57.13 | 488.62 | 1.81 | 1.06 | 1.00 | 144.26 | 1.16 | 167.47 | 0.517 | No | No | 1.58 |
| 889 | 57.18 | 488.78 | 1.82 | 1.11 | 1.00 | 144.24 | 1.17 | 169.44 | 0.532 | No | No | 1.63 |
| 890 | 57.19 | 477.80 | 1.85 | 1.18 | 1.00 | 140.96 | 1.20 | 168.95 | 0.529 | No | No | 1.62 |
| 891 | 57.21 | 464.47 | 1.87 | 1.22 | 1.00 | 136.96 | 1.21 | 166.30 | 0.508 | No | No | 1.56 |
| 892 | 57.24 | 456.12 | 1.88 | 1.23 | 1.00 | 134.45 | 1.22 | 164.00 | 0.490 | No | No | 1.50 |
| 893 | 57.28 | 456.72 | 1.87 | 1.20 | 1.00 | 134.56 | 1.21 | 163.35 | 0.485 | No | No | 1.49 |
| 894 | 57.32 | 450.91 | 1.87 | 1.19 | 1.00 | 132.78 | 1.22 | 161.45 | 0.471 | No | No | 1.44 |
| 895 | 57.35 | 445.39 | 1.88 | 1.21 | 1.00 | 131.08 | 1.22 | 160.03 | 0.461 | No | No | 1.41 |
| 896 | 57.38 | 435.59 | 1.89 | 1.22 | 1.00 | 128.14 | 1.23 | 157.50 | 0.443 | No | No | 1.36 |
| 897 | 57.43 | 430.50 | 1.89 | 1.21 | 1.00 | 126.56 | 1.23 | 155.53 | 0.430 | No | No | 1.32 |
| 898 | 57.48 | 414.66 | 1.90 | 1.19 | 1.00 | 121.80 | 1.23 | 150.26 | 0.396 | No | No | 1.21 |
| 899 | 57.52 | 398.59 | 1.89 | 1.12 | 1.00 | 116.98 | 1.23 | 143.92 | 0.357 | No | No | 1.10 |
| 900 | 57.57 | 389.56 | 1.91 | 1.18 | 1.00 | 114.25 | 1.25 | 142.28 | 0.348 | No | No | 1.07 |
| 901 | 57.62 | 396.66 | 1.94 | 1.29 | 1.00 | 116.29 | 1.26 | 146.53 | 0.373 | No | No | 1.14 |
| 902 | 57.68 | 427.50 | 1.92 | 1.35 | 1.00 | 125.32 | 1.25 | 157.03 | 0.440 | No | No | 1.35 |
| 903 | 57.76 | 462.23 | 1.88 | 1.27 | 1.00 | 135.46 | 1.23 | 166.00 | 0.505 | No | No | 1.55 |
| 904 | 57.81 | 505.50 | 1.75 | 0.90 | 1.00 | 148.16 | 1.09 | 161.17 | 0.469 | No | No | 1.44 |
| 905 | 57.86 | 543.58 | 1.63 | 0.63 | 1.00 | 159.31 | 1.00 | 159.31 | 0.456 | No | No | 1.40 |
| 906 | 57.89 | 572.52 | 1.49 | 0.39 | 1.00 | 167.80 | 1.00 | 167.80 | 0.519 | No | No | 1.60 |
| 907 | 57.91 | 583.54 | 1.48 | 0.39 | 1.00 | 171.02 | 1.00 | 171.02 | 0.545 | No | No | 1.68 |
| 908 | 57.92 | 577.13 | 1.50 | 0.42 | 1.00 | 169.11 | 1.00 | 169.11 | 0.530 | No | No | 1.63 |
| 909 | 57.95 | 569.05 | 1.54 | 0.47 | 1.00 | 166.67 | 1.00 | 166.67 | 0.511 | No | No | 1.57 |
| 910 | 57.99 | 570.66 | 1.56 | 0.52 | 1.00 | 167.08 | 1.00 | 167.08 | 0.514 | No | No | 1.58 |
| 911 | 58.01 | 578.72 | 1.57 | 0.56 | 1.00 | 169.42 | 1.00 | 169.42 | 0.532 | No | No | 1.64 |
| 912 | 58.05 | 591.19 | 1.58 | 0.58 | 1.00 | 173.02 | 1.00 | 173.02 | 0.562 | No | No | 1.73 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 913 | 58.05 | 598.87 | 1.59 | 0.62 | 1.00 | 175.27 | 1.00 | 175.27 | 0.581 | No | No | 1.79 |
| 914 | 58.10 | 604.77 | 1.60 | 0.65 | 1.00 | 176.91 | 1.00 | 176.91 | 0.595 | No | No | 1.83 |
| 915 | 58.13 | 611.17 | 1.60 | 0.67 | 1.00 | 178.73 | 1.00 | 178.73 | 0.611 | No | No | 1.88 |
| 916 | 58.15 | 618.51 | 1.60 | 0.66 | 1.00 | 180.87 | 1.00 | 180.87 | 0.630 | No | No | 1.94 |
| 917 | 58.17 | 625.12 | 1.59 | 0.65 | 1.00 | 182.75 | 1.00 | 182.75 | 0.648 | No | No | 1.99 |
| 918 | 58.20 | 623.43 | 1.59 | 0.66 | 1.00 | 182.21 | 1.00 | 182.21 | 0.643 | No | No | 1.98 |
| 919 | 58.21 | 619.40 | 1.60 | 0.67 | 1.00 | 181.00 | 1.00 | 181.00 | 0.632 | No | No | 1.94 |
| 920 | 58.21 | 614.30 | 1.61 | 0.68 | 1.00 | 179.50 | 1.00 | 179.50 | 0.618 | No | No | 1.90 |
| 921 | 58.23 | 613.93 | 1.61 | 0.68 | 1.00 | 179.34 | 1.00 | 179.34 | 0.616 | No | No | 1.90 |
| 922 | 58.24 | 608.11 | 1.62 | 0.69 | 1.00 | 177.62 | 1.00 | 177.62 | 0.601 | No | No | 1.85 |
| 923 | 58.25 | 609.21 | 1.54 | 0.52 | 1.00 | 177.92 | 1.00 | 177.92 | 0.604 | No | No | 1.86 |
| 924 | 58.29 | 613.99 | 1.44 | 0.36 | 1.00 | 179.26 | 1.00 | 179.26 | 0.616 | No | No | 1.90 |
| 925 | 58.31 | 627.24 | 1.32 | 0.20 | 1.00 | 183.11 | 1.00 | 183.11 | 0.651 | No | No | 2.00 |
| 926 | 58.33 | 639.00 | 1.34 | 0.24 | 1.00 | 186.52 | 1.00 | 186.52 | 0.683 | No | No | 2.00 |
| 927 | 58.38 | 651.36 | 1.37 | 0.28 | 1.00 | 190.06 | 1.00 | 190.06 | 0.718 | No | No | 2.00 |
| 928 | 58.39 | 661.87 | 1.39 | 0.32 | 1.00 | 193.13 | 1.00 | 193.13 | 0.750 | No | No | 2.00 |
| 929 | 58.43 | 670.53 | 1.40 | 0.34 | 1.00 | 195.59 | 1.00 | 195.59 | 0.776 | No | No | 2.00 |
| 930 | 58.43 | 682.73 | 1.39 | 0.33 | 1.00 | 199.15 | 1.00 | 199.15 | 0.815 | No | No | 2.00 |
| 931 | 58.48 | 688.02 | 1.40 | 0.35 | 1.00 | 200.60 | 1.00 | 200.60 | 4.000 | No | No | 2.00 |
| 932 | 58.53 | 694.39 | 1.41 | 0.38 | 1.00 | 202.36 | 1.00 | 202.36 | 4.000 | No | No | 2.00 |
| 933 | 58.56 | 696.37 | 1.46 | 0.46 | 1.00 | 202.90 | 1.00 | 202.90 | 4.000 | No | No | 2.00 |
| 934 | 58.58 | 704.43 | 1.47 | 0.49 | 1.00 | 205.20 | 1.00 | 205.20 | 4.000 | No | No | 2.00 |
| 935 | 58.59 | 710.90 | 1.49 | 0.52 | 1.00 | 207.06 | 1.00 | 207.06 | 4.000 | No | No | 2.00 |
| 936 | 58.63 | 707.18 | 1.49 | 0.53 | 1.00 | 205.90 | 1.00 | 205.90 | 4.000 | No | No | 2.00 |
| 937 | 58.63 | 709.20 | 1.50 | 0.54 | 1.00 | 206.49 | 1.00 | 206.49 | 4.000 | No | No | 2.00 |
| 938 | 58.63 | 695.36 | 1.51 | 0.54 | 1.00 | 202.42 | 1.00 | 202.42 | 4.000 | No | No | 2.00 |
| 939 | 58.68 | 700.19 | 1.49 | 0.51 | 1.00 | 203.74 | 1.00 | 203.74 | 4.000 | No | No | 2.00 |
| 940 | 58.69 | 701.88 | 1.45 | 0.44 | 1.00 | 204.22 | 1.00 | 204.22 | 4.000 | No | No | 2.00 |
| 941 | 58.72 | 717.85 | 1.40 | 0.38 | 1.00 | 208.81 | 1.00 | 208.81 | 4.000 | No | No | 2.00 |
| 942 | 58.73 | 722.94 | 1.38 | 0.36 | 1.00 | 210.28 | 1.00 | 210.28 | 4.000 | No | No | 2.00 |
| 943 | 58.74 | 728.64 | 1.41 | 0.40 | 1.00 | 211.92 | 1.00 | 211.92 | 4.000 | No | No | 2.00 |
| 944 | 58.77 | 726.96 | 1.44 | 0.45 | 1.00 | 211.36 | 1.00 | 211.36 | 4.000 | No | No | 2.00 |
| 945 | 58.81 | 722.67 | 1.47 | 0.50 | 1.00 | 210.02 | 1.00 | 210.02 | 4.000 | No | No | 2.00 |
| 946 | 58.82 | 713.94 | 1.49 | 0.53 | 1.00 | 207.44 | 1.00 | 207.44 | 4.000 | No | No | 2.00 |
| 947 | 58.83 | 715.80 | 1.51 | 0.57 | 1.00 | 207.97 | 1.00 | 207.97 | 4.000 | No | No | 2.00 |
| 948 | 58.87 | 722.33 | 1.52 | 0.60 | 1.00 | 209.78 | 1.00 | 209.78 | 4.000 | No | No | 2.00 |
| 949 | 58.91 | 731.67 | 1.53 | 0.63 | 1.00 | 212.41 | 1.00 | 212.41 | 4.000 | No | No | 2.00 |
| 950 | 58.92 | 737.87 | 1.54 | 0.64 | 1.00 | 214.21 | 1.00 | 214.21 | 4.000 | No | No | 2.00 |
| 951 | 58.93 | 740.53 | 1.53 | 0.64 | 1.00 | 214.95 | 1.00 | 214.95 | 4.000 | No | No | 2.00 |
| 952 | 58.96 | 739.05 | 1.53 | 0.63 | 1.00 | 214.44 | 1.00 | 214.44 | 4.000 | No | No | 2.00 |
| 953 | 59.01 | 716.31 | 1.56 | 0.67 | 1.00 | 207.70 | 1.00 | 207.70 | 4.000 | No | No | 2.00 |
| 954 | 59.06 | 687.29 | 1.59 | 0.73 | 1.00 | 199.13 | 1.00 | 199.13 | 0.814 | No | No | 2.00 |
| 955 | 59.08 | 655.28 | 1.63 | 0.78 | 1.00 | 189.77 | 1.00 | 189.77 | 0.716 | No | No | 2.00 |
| 956 | 59.11 | 638.94 | 1.65 | 0.81 | 1.00 | 184.95 | 1.00 | 184.95 | 0.668 | No | No | 2.00 |
| 957 | 59.15 | 627.21 | 1.68 | 0.88 | 1.00 | 181.46 | 1.00 | 181.46 | 0.636 | No | No | 1.96 |
| 958 | 59.21 | 618.28 | 1.70 | 0.94 | 1.00 | 178.75 | 1.00 | 178.75 | 0.611 | No | No | 1.89 |
| 959 | 59.26 | 606.09 | 1.72 | 0.96 | 1.00 | 175.11 | 1.02 | 178.89 | 0.612 | No | No | 1.89 |
| 960 | 59.30 | 592.31 | 1.71 | 0.92 | 1.00 | 171.02 | 1.01 | 173.20 | 0.563 | No | No | 1.74 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 961 | 59.35 | 579.87 | 1.71 | 0.90 | 1.00 | 167.32 | 1.01 | 169.07 | 0.529 | No | No | 1.64 |
| 962 | 59.40 | 562.76 | 1.73 | 0.91 | 1.00 | 162.26 | 1.04 | 168.73 | 0.527 | No | No | 1.63 |
| 963 | 59.42 | 550.96 | 1.74 | 0.92 | 1.00 | 158.81 | 1.06 | 168.34 | 0.524 | No | No | 1.62 |
| 964 | 59.47 | 539.34 | 1.75 | 0.93 | 1.00 | 155.35 | 1.08 | 167.78 | 0.519 | No | No | 1.61 |
| 965 | 59.51 | 539.41 | 1.75 | 0.95 | 1.00 | 155.29 | 1.09 | 168.63 | 0.526 | No | No | 1.63 |
| 966 | 59.56 | 537.97 | 1.75 | 0.95 | 1.00 | 154.79 | 1.09 | 168.59 | 0.526 | No | No | 1.63 |
| 967 | 59.61 | 537.36 | 1.74 | 0.90 | 1.00 | 154.53 | 1.06 | 164.50 | 0.494 | No | No | 1.53 |
| 968 | 59.67 | 541.98 | 1.70 | 0.80 | 1.00 | 155.77 | 1.00 | 155.77 | 0.432 | No | No | 1.34 |
| 969 | 59.71 | 553.73 | 1.65 | 0.69 | 1.00 | 159.11 | 1.00 | 159.11 | 0.455 | No | No | 1.41 |
| 970 | 59.80 | 555.82 | 1.61 | 0.59 | 1.00 | 159.56 | 1.00 | 159.56 | 0.458 | No | No | 1.42 |
| 971 | 59.85 | 552.45 | 1.59 | 0.54 | 1.00 | 158.50 | 1.00 | 158.50 | 0.450 | No | No | 1.40 |
| 972 | 59.90 | 542.21 | 1.59 | 0.53 | 1.00 | 155.47 | 1.00 | 155.47 | 0.429 | No | No | 1.33 |
| 973 | 60.00 | 542.99 | 1.59 | 0.54 | 1.00 | 155.53 | 1.00 | 155.53 | 0.430 | No | No | 1.33 |
| 974 | 60.04 | 541.71 | 1.60 | 0.56 | 1.00 | 155.09 | 1.00 | 155.09 | 0.427 | No | No | 1.33 |
| 975 | 60.10 | 526.52 | 1.63 | 0.60 | 1.00 | 150.62 | 1.00 | 150.62 | 0.398 | No | No | 1.23 |
| 976 | 60.15 | 508.32 | 1.67 | 0.66 | 1.00 | 145.30 | 1.00 | 145.30 | 0.365 | No | No | 1.13 |
| 977 | 60.19 | 487.40 | 1.70 | 0.69 | 1.00 | 139.22 | 1.00 | 139.22 | 0.331 | No | No | 1.03 |
| 978 | 60.23 | 483.49 | 1.69 | 0.66 | 1.00 | 138.03 | 1.00 | 138.03 | 0.325 | No | No | 1.01 |
| 979 | 60.28 | 482.61 | 1.68 | 0.63 | 1.00 | 137.71 | 1.00 | 137.71 | 0.323 | No | No | 1.00 |
| 980 | 60.33 | 488.98 | 1.67 | 0.62 | 1.00 | 139.47 | 1.00 | 139.47 | 0.332 | No | No | 1.03 |
| 981 | 60.38 | 491.97 | 1.67 | 0.64 | 1.00 | 140.26 | 1.00 | 140.26 | 0.337 | No | No | 1.05 |
| 982 | 60.42 | 493.85 | 1.69 | 0.68 | 1.00 | 140.74 | 1.00 | 140.74 | 0.339 | No | No | 1.05 |
| 983 | 60.44 | 487.18 | 1.71 | 0.72 | 1.00 | 138.79 | 1.01 | 140.24 | 0.337 | No | No | 1.05 |
| 984 | 60.47 | 475.94 | 1.74 | 0.79 | 1.00 | 135.53 | 1.08 | 145.72 | 0.368 | No | No | 1.14 |
| 985 | 60.52 | 465.53 | 1.78 | 0.87 | 1.00 | 132.47 | 1.12 | 148.94 | 0.387 | No | No | 1.20 |
| 986 | 60.56 | 462.70 | 1.79 | 0.92 | 1.00 | 131.60 | 1.15 | 150.90 | 0.400 | No | No | 1.24 |
| 987 | 60.57 | 465.03 | 1.79 | 0.92 | 1.00 | 132.25 | 1.15 | 151.48 | 0.403 | No | No | 1.25 |
| 988 | 60.61 | 470.62 | 1.78 | 0.89 | 1.00 | 133.80 | 1.13 | 151.48 | 0.403 | No | No | 1.25 |
| 989 | 60.66 | 477.29 | 1.77 | 0.88 | 1.00 | 135.64 | 1.12 | 151.98 | 0.406 | No | No | 1.27 |
| 990 | 60.71 | 486.66 | 1.77 | 0.87 | 1.00 | 138.25 | 1.11 | 153.21 | 0.414 | No | No | 1.29 |
| 991 | 60.76 | 495.25 | 1.77 | 0.90 | 1.00 | 140.63 | 1.11 | 156.59 | 0.437 | No | No | 1.36 |
| 992 | 60.81 | 504.76 | 1.77 | 0.92 | 1.00 | 143.27 | 1.11 | 159.58 | 0.458 | No | No | 1.43 |
| 993 | 60.86 | 523.05 | 1.75 | 0.90 | 1.00 | 148.43 | 1.08 | 161.02 | 0.468 | No | No | 1.46 |
| 994 | 60.91 | 559.78 | 1.70 | 0.83 | 1.00 | 158.84 | 1.00 | 158.84 | 0.453 | No | No | 1.41 |
| 995 | 60.95 | 601.50 | 1.66 | 0.78 | 1.00 | 170.69 | 1.00 | 170.69 | 0.542 | No | No | 1.69 |
| 996 | 61.00 | 637.66 | 1.64 | 0.77 | 1.00 | 180.91 | 1.00 | 180.91 | 0.631 | No | No | 1.97 |
| 997 | 61.02 | 657.74 | 1.64 | 0.79 | 1.00 | 186.60 | 1.00 | 186.60 | 0.684 | No | No | 2.00 |
| 998 | 61.05 | 685.10 | 1.62 | 0.78 | 1.00 | 194.34 | 1.00 | 194.34 | 0.763 | No | No | 2.00 |
| 999 | 61.08 | 710.24 | 1.61 | 0.77 | 1.00 | 201.44 | 1.00 | 201.44 | 4.000 | No | No | 2.00 |
| 1000 | 61.09 | 731.84 | 1.59 | 0.76 | 1.00 | 207.57 | 1.00 | 207.57 | 4.000 | No | No | 2.00 |
| 1001 | 61.13 | 737.94 | 1.59 | 0.76 | 1.00 | 209.24 | 1.00 | 209.24 | 4.000 | No | No | 2.00 |
| 1002 | 61.14 | 739.46 | 1.60 | 0.77 | 1.00 | 209.63 | 1.00 | 209.63 | 4.000 | No | No | 2.00 |
| 1003 | 61.16 | 741.44 | 1.60 | 0.78 | 1.00 | 210.15 | 1.00 | 210.15 | 4.000 | No | No | 2.00 |
| 1004 | 61.20 | 750.88 | 1.58 | 0.75 | 1.00 | 212.77 | 1.00 | 212.77 | 4.000 | No | No | 2.00 |
| 1005 | 61.23 | 762.13 | 1.56 | 0.71 | 1.00 | 215.88 | 1.00 | 215.88 | 4.000 | No | No | 2.00 |
| 1006 | 61.24 | 766.92 | 1.52 | 0.62 | 1.00 | 217.23 | 1.00 | 217.23 | 4.000 | No | No | 2.00 |
| 1007 | 61.29 | 758.86 | 1.51 | 0.59 | 1.00 | 214.83 | 1.00 | 214.83 | 4.000 | No | No | 2.00 |
| 1008 | 61.30 | 744.24 | 1.52 | 0.59 | 1.00 | 210.65 | 1.00 | 210.65 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1009 | 61.33 | 734.57 | 1.55 | 0.65 | 1.00 | 207.82 | 1.00 | 207.82 | 4.000 | No | No | 2.00 |
| 1010 | 61.38 | 730.90 | 1.55 | 0.65 | 1.00 | 206.66 | 1.00 | 206.66 | 4.000 | No | No | 2.00 |
| 1011 | 61.43 | 731.07 | 1.53 | 0.60 | 1.00 | 206.60 | 1.00 | 206.60 | 4.000 | No | No | 2.00 |
| 1012 | 61.48 | 738.25 | 1.50 | 0.56 | 1.00 | 208.54 | 1.00 | 208.54 | 4.000 | No | No | 2.00 |
| 1013 | 61.53 | 750.91 | 1.48 | 0.53 | 1.00 | 212.02 | 1.00 | 212.02 | 4.000 | No | No | 2.00 |
| 1014 | 61.56 | 754.78 | 1.48 | 0.52 | 1.00 | 213.05 | 1.00 | 213.05 | 4.000 | No | No | 2.00 |
| 1015 | 61.58 | 726.93 | 1.50 | 0.54 | 1.00 | 205.10 | 1.00 | 205.10 | 4.000 | No | No | 2.00 |
| 1016 | 61.59 | 702.39 | 1.52 | 0.55 | 1.00 | 198.13 | 1.00 | 198.13 | 0.803 | No | No | 2.00 |
| 1017 | 61.62 | 600.70 | 1.61 | 0.64 | 1.00 | 169.24 | 1.00 | 169.24 | 0.531 | No | No | 1.66 |
| 1018 | 61.63 | 595.30 | 1.61 | 0.64 | 1.00 | 167.67 | 1.00 | 167.67 | 0.518 | No | No | 1.62 |
| 1019 | 61.67 | 588.36 | 1.62 | 0.64 | 1.00 | 165.65 | 1.00 | 165.65 | 0.503 | No | No | 1.57 |
| 1020 | 61.71 | 662.66 | 1.55 | 0.57 | 1.00 | 186.61 | 1.00 | 186.61 | 0.684 | No | No | 2.00 |
| 1021 | 61.76 | 655.52 | 1.55 | 0.57 | 1.00 | 184.50 | 1.00 | 184.50 | 0.664 | No | No | 2.00 |
| 1022 | 61.81 | 634.02 | 1.54 | 0.53 | 1.00 | 178.32 | 1.00 | 178.32 | 0.607 | No | No | 1.90 |
| 1023 | 61.86 | 615.02 | 1.52 | 0.48 | 1.00 | 172.85 | 1.00 | 172.85 | 0.560 | No | No | 1.75 |
| 1024 | 61.87 | 600.83 | 1.48 | 0.38 | 1.00 | 168.83 | 1.00 | 168.83 | 0.528 | No | No | 1.65 |
| 1025 | 61.91 | 588.87 | 1.44 | 0.32 | 1.00 | 165.39 | 1.00 | 165.39 | 0.501 | No | No | 1.57 |
| 1026 | 61.95 | 578.02 | 1.42 | 0.27 | 1.00 | 162.25 | 1.00 | 162.25 | 0.477 | No | No | 1.49 |
| 1027 | 61.96 | 566.74 | 1.42 | 0.26 | 1.00 | 159.04 | 1.00 | 159.04 | 0.454 | No | No | 1.42 |
| 1028 | 62.00 | 553.70 | 1.45 | 0.29 | 1.00 | 155.30 | 1.00 | 155.30 | 0.428 | No | No | 1.34 |
| 1029 | 62.04 | 535.16 | 1.49 | 0.33 | 1.00 | 150.01 | 1.00 | 150.01 | 0.394 | No | No | 1.23 |
| 1030 | 62.06 | 510.97 | 1.55 | 0.41 | 1.00 | 143.15 | 1.00 | 143.15 | 0.353 | No | No | 1.11 |
| 1031 | 62.10 | 491.66 | 1.60 | 0.47 | 1.00 | 137.65 | 1.00 | 137.65 | 0.323 | No | No | 1.01 |
| 1032 | 62.14 | 475.52 | 1.64 | 0.51 | 1.00 | 133.04 | 1.00 | 133.04 | 0.299 | No | No | 0.94 |
| 1033 | 62.20 | 463.08 | 1.66 | 0.55 | 1.00 | 129.46 | 1.00 | 129.46 | 0.282 | No | No | 0.88 |
| 1034 | 62.22 | 439.20 | 1.71 | 0.60 | 1.00 | 122.70 | 1.00 | 122.70 | 0.252 | No | No | 0.79 |
| 1035 | 62.27 | 415.48 | 1.75 | 0.66 | 1.00 | 115.96 | 1.08 | 125.13 | 0.262 | No | No | 0.82 |
| 1036 | 62.29 | 396.37 | 1.78 | 0.71 | 1.00 | 110.55 | 1.13 | 125.44 | 0.264 | No | No | 0.83 |
| 1037 | 62.34 | 380.26 | 1.82 | 0.77 | 1.00 | 105.96 | 1.17 | 124.22 | 0.258 | No | No | 0.81 |
| 1038 | 62.39 | 366.62 | 1.86 | 0.86 | 1.00 | 102.08 | 1.21 | 123.46 | 0.255 | No | No | 0.80 |
| 1039 | 62.43 | 347.78 | 1.93 | 1.03 | 1.00 | 96.73 | 1.26 | 121.51 | 0.247 | No | No | 0.77 |
| 1040 | 62.49 | 340.13 | 1.97 | 1.16 | 1.00 | 94.52 | 1.28 | 121.38 | 0.246 | No | No | 0.77 |
| 1041 | 62.57 | 336.43 | 1.99 | 1.25 | 1.00 | 93.40 | 1.30 | 121.70 | 0.248 | No | No | 0.78 |
| 1042 | 62.68 | 357.18 | 1.98 | 1.25 | 1.00 | 99.12 | 1.29 | 127.79 | 0.274 | No | No | 0.86 |
| 1043 | 62.75 | 398.26 | 1.93 | 1.21 | 1.00 | 110.56 | 1.26 | 139.12 | 0.330 | No | No | 1.04 |
| 1044 | 62.87 | 426.23 | 1.91 | 1.20 | 1.00 | 118.25 | 1.24 | 146.86 | 0.375 | No | No | 1.18 |
| 1045 | 62.88 | 409.21 | 1.93 | 1.22 | 1.00 | 113.48 | 1.25 | 142.25 | 0.348 | No | No | 1.09 |
| 1046 | 62.89 | 424.34 | 1.86 | 1.01 | 1.00 | 117.70 | 1.21 | 142.29 | 0.348 | No | No | 1.09 |
| 1047 | 62.93 | 485.42 | 1.74 | 0.76 | 1.00 | 134.75 | 1.06 | 142.80 | 0.351 | No | No | 1.10 |
| 1048 | 62.98 | 571.92 | 1.61 | 0.59 | 1.00 | 158.87 | 1.00 | 158.87 | 0.453 | No | No | 1.42 |
| 1049 | 63.02 | 620.24 | 1.47 | 0.38 | 1.00 | 172.30 | 1.00 | 172.30 | 0.556 | No | No | 1.75 |
| 1050 | 63.07 | 658.55 | 1.31 | 0.19 | 1.00 | 182.93 | 1.00 | 182.93 | 0.649 | No | No | 2.00 |
| 1051 | 63.12 | 710.78 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1052 | 63.14 | 752.36 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1053 | 63.17 | 781.30 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1054 | 63.17 | 799.36 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1055 | 63.20 | 825.98 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1056 | 63.21 | 830.83 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1057 | 63.23 | 842.91 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1058 | 63.26 | 834.75 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1059 | 63.28 | 841.52 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1060 | 63.31 | 838.10 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1061 | 63.32 | 839.38 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1062 | 63.36 | 837.12 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1063 | 63.40 | 836.85 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |

**Abbreviations**

Depth: Depth from free surface, at which CPT was performed (ft)
$q_t$: Total cone resistance
$I_c$: Soil behavior type index
Fr: Normalized friction ratio (%)
n: Stress exponent
$Q_{tn}$: Normalized cone resistance
$K_c$: Cone resistance correction factor due to fines
$Q_{tn,cs}$: Normalized and adjusted cone resistance
$CRR_{7.5}$: Cyclic resistance ratio for $M_w$=7.5
FS: Factor of safety against soil liquefaction

**:: Liquefaction Potential Index calculation data ::**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.01 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.04 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 0.09 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.11 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 0.14 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.14 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 0.18 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.23 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 0.24 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.28 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 0.33 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 0.42 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.47 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 0.51 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.52 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 0.57 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.61 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 0.67 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.73 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 0.81 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 0.86 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 0.98 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 | 1.05 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 1.15 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 1.24 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 1.34 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 1.43 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 1.53 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 1.58 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 1.62 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 1.67 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 1.75 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 1.77 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 1.81 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 1.86 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 1.91 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 1.95 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 2.00 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 2.05 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 2.11 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 2.20 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 2.24 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 2.29 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 2.34 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 2.44 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 2.48 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 2.58 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 2.63 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 2.71 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 2.78 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 2.82 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 2.89 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 2.96 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 3.03 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 3.11 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 3.19 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 3.25 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 3.35 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 3.41 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 3.50 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 3.59 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 3.69 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 3.79 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 3.88 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 3.97 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 4.07 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 4.14 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 4.17 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 4.26 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 4.32 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 4.37 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 4.42 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 4.51 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 4.61 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 4.65 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 4.74 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 4.80 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 4.89 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 4.95 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 5.04 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 5.13 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 5.18 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 5.28 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 5.32 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 5.42 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 5.51 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 5.60 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 5.66 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 5.76 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 5.85 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 5.92 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 5.95 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 5.97 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 6.02 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 6.06 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6.16 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 6.21 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 6.26 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 6.31 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 6.40 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 6.44 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 6.52 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 6.57 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 6.64 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 6.69 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 6.78 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 6.83 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 6.92 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 6.97 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 7.03 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 7.12 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 7.22 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 7.27 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 7.36 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 7.43 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 7.50 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 7.59 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 7.64 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 7.75 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 7.79 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 7.89 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 7.99 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 8.04 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 8.13 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 8.23 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 8.32 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 8.37 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 8.46 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 8.56 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 8.59 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 8.61 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 8.67 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 8.71 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 8.72 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 8.78 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 8.80 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 8.86 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 8.90 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 8.95 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 8.96 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 9.00 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 9.05 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 9.09 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 9.10 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 9.14 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 9.20 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 9.24 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 9.29 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 9.31 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 9.38 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 9.41 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 9.47 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 9.53 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 9.62 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 9.67 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 9.77 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 9.81 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 9.90 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 9.97 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 10.06 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 10.20 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 10.30 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 10.44 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 10.54 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 10.63 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 10.74 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 10.78 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 10.83 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 10.88 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 10.89 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 10.97 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 11.02 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 11.07 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 11.11 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 11.16 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 11.21 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 11.26 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 11.30 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 11.36 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 11.40 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 11.45 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 11.50 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 11.55 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 11.60 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 11.66 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 11.74 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 11.84 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 11.93 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 12.04 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 12.13 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 12.22 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12.27 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 12.37 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 12.41 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 12.51 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 12.56 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 12.65 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 12.71 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 12.79 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 12.89 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 12.96 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 13.04 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 13.13 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 13.23 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 13.30 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 13.37 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 13.47 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 13.57 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 13.61 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 13.62 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 13.68 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 13.73 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 13.77 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 13.87 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 13.93 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 14.00 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 14.06 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 14.12 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 14.21 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 14.25 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 14.35 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 14.45 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 14.50 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 14.59 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 14.64 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 14.74 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 14.80 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 14.88 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 14.97 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 15.05 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 15.13 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 15.21 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 15.28 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 15.36 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 15.41 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 15.50 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 15.55 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 15.65 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 15.71 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 15.79 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 15.89 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 15.90 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 15.94 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 16.00 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 16.06 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 16.14 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 16.19 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 16.26 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 16.33 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 16.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 16.47 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 16.54 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 16.62 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 16.70 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 16.76 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 16.86 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 16.90 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 16.98 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 17.05 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 17.14 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 17.20 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 17.29 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 17.34 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 17.44 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 17.50 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 17.58 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 17.64 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 17.75 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 17.82 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 17.89 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 17.89 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17.96 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 18.02 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 18.07 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 18.17 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 18.22 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 18.30 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 18.36 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 18.42 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 18.50 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 18.56 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 18.62 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 18.69 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 18.76 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 18.84 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 18.89 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 18.98 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 19.05 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 19.12 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 19.18 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 19.24 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 19.32 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 19.38 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 19.46 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 19.54 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 19.62 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 19.70 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 19.80 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 19.85 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 19.94 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 20.03 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 20.13 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 20.19 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 20.29 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 20.39 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 20.43 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 20.47 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 20.52 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 20.61 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 20.66 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 20.71 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 20.77 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 20.85 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 20.91 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 21.00 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 21.05 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 21.11 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 21.19 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 21.24 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 21.34 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 21.39 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 21.48 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 21.53 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 21.64 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 21.72 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 21.81 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 21.89 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 21.97 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 22.05 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 22.12 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 22.13 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 22.18 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 22.22 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 22.28 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 22.33 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 22.41 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 22.51 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 22.56 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.61 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 22.65 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 22.71 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 22.76 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 22.85 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 22.89 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.99 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 23.04 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 23.12 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 23.18 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 23.24 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 23.33 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 23.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 23.47 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 23.52 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 23.61 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 23.68 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 23.76 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 23.83 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 23.90 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 23.97 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 24.05 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 24.10 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 24.19 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 24.27 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 24.34 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 24.43 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 24.48 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 24.57 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 24.62 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 24.72 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 24.81 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 24.86 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 24.95 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 25.01 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 25.02 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 25.05 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 25.11 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 25.15 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 25.21 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 25.25 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 25.30 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 25.40 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 25.45 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.52 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 25.60 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 25.66 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 25.74 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 25.80 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 25.88 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 25.94 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 26.02 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 26.09 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 26.17 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 26.23 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 26.29 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 26.37 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 26.46 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 26.55 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 26.60 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 26.70 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 26.78 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 26.87 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 26.94 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 27.03 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 27.13 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 27.18 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 27.27 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 27.32 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 27.37 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 27.41 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 27.46 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 27.51 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 27.61 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 27.66 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 27.73 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 27.80 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 27.88 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 27.96 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 28.04 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 28.12 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 28.18 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 28.27 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 28.32 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 28.42 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 28.47 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 28.61 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 28.67 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 28.75 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 28.81 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 28.90 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 29.00 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 29.05 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 29.10 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 29.15 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 29.24 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 29.29 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 29.37 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 29.43 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 29.53 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 29.62 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 29.68 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 29.80 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 | 29.91 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 |
| 30.00 | 0.61 | 0.00 | 0.00 | 0.09 | 0.06 | 30.07 | 0.62 | 0.00 | 0.00 | 0.07 | 0.04 |
| 30.15 | 0.62 | 0.00 | 0.00 | 0.08 | 0.05 | 30.21 | 0.62 | 0.00 | 0.00 | 0.07 | 0.04 |
| 30.26 | 0.62 | 0.00 | 0.00 | 0.05 | 0.03 | 30.31 | 0.61 | 0.00 | 0.00 | 0.05 | 0.03 |
| 30.38 | 0.61 | 0.00 | 0.00 | 0.07 | 0.05 | 30.45 | 0.60 | 0.00 | 0.00 | 0.07 | 0.05 |
| 30.50 | 0.60 | 0.00 | 0.00 | 0.05 | 0.03 | 30.55 | 0.59 | 0.00 | 0.00 | 0.05 | 0.03 |
| 30.64 | 0.58 | 0.00 | 0.00 | 0.09 | 0.06 | 30.70 | 0.56 | 0.00 | 0.00 | 0.05 | 0.04 |
| 30.79 | 0.55 | 0.00 | 0.00 | 0.09 | 0.07 | 30.84 | 0.54 | 0.00 | 0.00 | 0.05 | 0.04 |
| 30.93 | 0.54 | 0.00 | 0.00 | 0.09 | 0.07 | 30.98 | 0.54 | 0.00 | 0.00 | 0.05 | 0.04 |
| 31.05 | 0.55 | 0.00 | 0.00 | 0.06 | 0.05 | 31.13 | 0.56 | 0.00 | 0.00 | 0.08 | 0.06 |
| 31.17 | 0.58 | 0.00 | 0.00 | 0.05 | 0.03 | 31.27 | 0.61 | 0.00 | 0.00 | 0.10 | 0.06 |
| 31.32 | 0.67 | 0.00 | 0.00 | 0.05 | 0.03 | 31.41 | 0.73 | 0.00 | 0.00 | 0.10 | 0.04 |
| 31.46 | 0.78 | 0.00 | 0.00 | 0.05 | 0.02 | 31.52 | 0.80 | 0.00 | 0.00 | 0.06 | 0.02 |
| 31.61 | 0.79 | 0.00 | 0.00 | 0.08 | 0.03 | 31.66 | 0.76 | 0.00 | 0.00 | 0.06 | 0.02 |
| 31.75 | 0.71 | 0.00 | 0.00 | 0.09 | 0.04 | 31.80 | 0.66 | 0.00 | 0.00 | 0.05 | 0.03 |
| 31.90 | 0.61 | 0.00 | 0.00 | 0.10 | 0.06 | 31.94 | 0.59 | 0.00 | 0.00 | 0.05 | 0.03 |
| 32.04 | 0.59 | 0.00 | 0.00 | 0.10 | 0.06 | 32.09 | 0.62 | 0.00 | 0.00 | 0.04 | 0.03 |
| 32.20 | 0.63 | 0.00 | 0.00 | 0.11 | 0.06 | 32.24 | 0.65 | 0.00 | 0.00 | 0.04 | 0.02 |
| 32.28 | 0.65 | 0.00 | 0.00 | 0.04 | 0.02 | 32.29 | 0.66 | 0.00 | 0.00 | 0.01 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 32.30 | 0.67 | 0.00 | 0.00 | 0.01 | 0.01 | 32.40 | 0.67 | 0.00 | 0.00 | 0.10 | 0.05 |
| 32.45 | 0.67 | 0.00 | 0.00 | 0.04 | 0.02 | 32.55 | 0.67 | 0.00 | 0.00 | 0.10 | 0.05 |
| 32.59 | 0.67 | 0.00 | 0.00 | 0.05 | 0.02 | 32.69 | 0.67 | 0.00 | 0.00 | 0.10 | 0.05 |
| 32.76 | 0.68 | 0.00 | 0.00 | 0.07 | 0.03 | 32.84 | 0.69 | 0.00 | 0.00 | 0.08 | 0.04 |
| 32.90 | 0.70 | 0.00 | 0.00 | 0.07 | 0.03 | 32.98 | 0.70 | 0.00 | 0.00 | 0.08 | 0.03 |
| 33.06 | 0.71 | 0.00 | 0.00 | 0.08 | 0.03 | 33.12 | 0.71 | 0.00 | 0.00 | 0.06 | 0.03 |
| 33.22 | 0.72 | 0.00 | 0.00 | 0.10 | 0.04 | 33.31 | 0.72 | 0.00 | 0.00 | 0.09 | 0.04 |
| 33.37 | 0.72 | 0.00 | 0.00 | 0.05 | 0.02 | 33.46 | 0.71 | 0.00 | 0.00 | 0.09 | 0.04 |
| 33.55 | 0.71 | 0.00 | 0.00 | 0.09 | 0.04 | 33.65 | 0.71 | 0.00 | 0.00 | 0.10 | 0.04 |
| 33.70 | 0.71 | 0.00 | 0.00 | 0.05 | 0.02 | 33.79 | 0.71 | 0.00 | 0.00 | 0.09 | 0.04 |
| 33.89 | 0.71 | 0.00 | 0.00 | 0.10 | 0.04 | 33.99 | 0.70 | 0.00 | 0.00 | 0.09 | 0.04 |
| 34.04 | 0.69 | 0.00 | 0.00 | 0.05 | 0.02 | 34.13 | 0.68 | 0.00 | 0.00 | 0.09 | 0.04 |
| 34.23 | 0.67 | 0.00 | 0.00 | 0.10 | 0.05 | 34.32 | 0.66 | 0.00 | 0.00 | 0.09 | 0.05 |
| 34.37 | 0.66 | 0.00 | 0.00 | 0.05 | 0.02 | 34.47 | 0.66 | 0.00 | 0.00 | 0.10 | 0.05 |
| 34.55 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 34.63 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 34.73 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 34.80 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 34.90 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 35.00 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 35.12 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 35.20 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 35.33 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 35.41 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 35.44 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 35.48 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 35.57 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 35.62 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 35.67 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 35.71 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 35.82 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 35.86 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 35.93 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 36.01 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 36.06 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 36.12 | 1.75 | 0.00 | 0.00 | 0.06 | 0.00 |
| 36.18 | 1.84 | 0.00 | 0.00 | 0.06 | 0.00 | 36.25 | 1.91 | 0.00 | 0.00 | 0.07 | 0.00 |
| 36.30 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 36.39 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 36.44 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 36.53 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 36.59 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 36.68 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 36.75 | 1.91 | 0.00 | 0.00 | 0.07 | 0.00 | 36.83 | 1.77 | 0.00 | 0.00 | 0.08 | 0.00 |
| 36.90 | 1.65 | 0.00 | 0.00 | 0.07 | 0.00 | 36.97 | 1.53 | 0.00 | 0.00 | 0.07 | 0.00 |
| 37.02 | 1.31 | 0.00 | 0.00 | 0.05 | 0.00 | 37.04 | 1.21 | 0.00 | 0.00 | 0.02 | 0.00 |
| 37.08 | 1.14 | 0.00 | 0.00 | 0.04 | 0.00 | 37.17 | 1.16 | 0.00 | 0.00 | 0.09 | 0.00 |
| 37.27 | 1.09 | 0.00 | 0.00 | 0.10 | 0.00 | 37.37 | 1.02 | 0.00 | 0.00 | 0.09 | 0.00 |
| 37.42 | 0.96 | 0.00 | 0.00 | 0.05 | 0.00 | 37.51 | 0.93 | 0.00 | 0.00 | 0.09 | 0.01 |
| 37.58 | 0.92 | 0.00 | 0.00 | 0.07 | 0.01 | 37.66 | 0.93 | 0.00 | 0.00 | 0.07 | 0.01 |
| 37.76 | 0.95 | 0.00 | 0.00 | 0.10 | 0.01 | 37.85 | 0.96 | 0.00 | 0.00 | 0.09 | 0.00 |
| 37.93 | 0.97 | 0.00 | 0.00 | 0.08 | 0.00 | 38.04 | 0.98 | 0.00 | 0.00 | 0.11 | 0.00 |
| 38.13 | 0.99 | 0.00 | 0.00 | 0.09 | 0.00 | 38.18 | 0.99 | 0.00 | 0.00 | 0.05 | 0.00 |
| 38.28 | 0.98 | 0.00 | 0.00 | 0.10 | 0.00 | 38.37 | 0.95 | 0.00 | 0.00 | 0.09 | 0.01 |
| 38.47 | 0.93 | 0.00 | 0.00 | 0.09 | 0.01 | 38.57 | 0.91 | 0.00 | 0.00 | 0.10 | 0.01 |
| 38.62 | 0.88 | 0.00 | 0.00 | 0.04 | 0.01 | 38.72 | 0.81 | 0.00 | 0.00 | 0.10 | 0.02 |
| 38.78 | 0.76 | 0.00 | 0.00 | 0.06 | 0.02 | 38.81 | 0.74 | 0.00 | 0.00 | 0.02 | 0.01 |
| 38.86 | 0.74 | 0.00 | 0.00 | 0.05 | 0.02 | 38.91 | 0.72 | 0.00 | 0.00 | 0.05 | 0.02 |
| 38.95 | 0.70 | 0.00 | 0.00 | 0.05 | 0.02 | 39.05 | 0.68 | 0.00 | 0.00 | 0.10 | 0.04 |
| 39.09 | 0.67 | 0.00 | 0.00 | 0.05 | 0.02 | 39.14 | 0.66 | 0.00 | 0.00 | 0.05 | 0.02 |
| 39.24 | 0.65 | 0.00 | 0.00 | 0.10 | 0.04 | 39.29 | 0.65 | 0.00 | 0.00 | 0.05 | 0.02 |
| 39.39 | 0.65 | 0.00 | 0.00 | 0.10 | 0.04 | 39.43 | 0.65 | 0.00 | 0.00 | 0.05 | 0.02 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39.53 | 0.65 | 0.00 | 0.00 | 0.10 | 0.04 | 39.57 | 0.64 | 0.00 | 0.00 | 0.04 | 0.02 |
| 39.68 | 0.64 | 0.00 | 0.00 | 0.10 | 0.04 | 39.73 | 0.64 | 0.00 | 0.00 | 0.05 | 0.02 |
| 39.81 | 0.63 | 0.00 | 0.00 | 0.08 | 0.04 | 39.89 | 0.60 | 0.00 | 0.00 | 0.08 | 0.04 |
| 39.96 | 0.56 | 0.00 | 0.00 | 0.07 | 0.03 | 40.06 | 0.54 | 0.00 | 0.00 | 0.10 | 0.05 |
| 40.15 | 0.53 | 0.00 | 0.00 | 0.09 | 0.05 | 40.20 | 0.53 | 0.00 | 0.00 | 0.06 | 0.03 |
| 40.24 | 0.53 | 0.00 | 0.00 | 0.04 | 0.02 | 40.26 | 0.54 | 0.00 | 0.00 | 0.01 | 0.01 |
| 40.27 | 0.54 | 0.00 | 0.00 | 0.02 | 0.01 | 40.37 | 0.55 | 0.00 | 0.00 | 0.09 | 0.05 |
| 40.42 | 0.55 | 0.00 | 0.00 | 0.05 | 0.02 | 40.52 | 0.56 | 0.00 | 0.00 | 0.10 | 0.05 |
| 40.56 | 0.57 | 0.00 | 0.00 | 0.04 | 0.02 | 40.66 | 0.58 | 0.00 | 0.00 | 0.10 | 0.05 |
| 40.70 | 0.61 | 0.00 | 0.00 | 0.05 | 0.02 | 40.75 | 0.65 | 0.00 | 0.00 | 0.05 | 0.02 |
| 40.85 | 0.71 | 0.00 | 0.00 | 0.10 | 0.03 | 40.91 | 0.77 | 0.00 | 0.00 | 0.06 | 0.01 |
| 40.96 | 0.85 | 0.00 | 0.00 | 0.05 | 0.01 | 41.04 | 0.92 | 0.00 | 0.00 | 0.08 | 0.01 |
| 41.09 | 1.01 | 0.00 | 0.00 | 0.05 | 0.00 | 41.18 | 1.08 | 0.00 | 0.00 | 0.09 | 0.00 |
| 41.23 | 1.15 | 0.00 | 0.00 | 0.05 | 0.00 | 41.29 | 1.19 | 0.00 | 0.00 | 0.06 | 0.00 |
| 41.38 | 1.19 | 0.00 | 0.00 | 0.09 | 0.00 | 41.42 | 1.19 | 0.00 | 0.00 | 0.05 | 0.00 |
| 41.52 | 1.16 | 0.00 | 0.00 | 0.10 | 0.00 | 41.57 | 1.13 | 0.00 | 0.00 | 0.05 | 0.00 |
| 41.62 | 1.11 | 0.00 | 0.00 | 0.05 | 0.00 | 41.71 | 1.09 | 0.00 | 0.00 | 0.09 | 0.00 |
| 41.76 | 1.08 | 0.00 | 0.00 | 0.04 | 0.00 | 41.84 | 1.08 | 0.00 | 0.00 | 0.09 | 0.00 |
| 41.91 | 1.08 | 0.00 | 0.00 | 0.07 | 0.00 | 41.95 | 1.08 | 0.00 | 0.00 | 0.05 | 0.00 |
| 42.01 | 1.10 | 0.00 | 0.00 | 0.06 | 0.00 | 42.10 | 1.11 | 0.00 | 0.00 | 0.08 | 0.00 |
| 42.15 | 1.14 | 0.00 | 0.00 | 0.05 | 0.00 | 42.24 | 1.16 | 0.00 | 0.00 | 0.09 | 0.00 |
| 42.28 | 1.17 | 0.00 | 0.00 | 0.04 | 0.00 | 42.39 | 1.16 | 0.00 | 0.00 | 0.10 | 0.00 |
| 42.43 | 1.14 | 0.00 | 0.00 | 0.04 | 0.00 | 42.50 | 1.13 | 0.00 | 0.00 | 0.07 | 0.00 |
| 42.58 | 1.12 | 0.00 | 0.00 | 0.08 | 0.00 | 42.65 | 1.03 | 0.00 | 0.00 | 0.07 | 0.00 |
| 42.70 | 1.00 | 0.00 | 0.00 | 0.06 | 0.00 | 42.73 | 0.97 | 0.00 | 0.00 | 0.02 | 0.00 |
| 42.77 | 1.02 | 0.00 | 0.00 | 0.04 | 0.00 | 42.82 | 1.05 | 0.00 | 0.00 | 0.05 | 0.00 |
| 42.87 | 1.10 | 0.00 | 0.00 | 0.05 | 0.00 | 42.91 | 1.17 | 0.00 | 0.00 | 0.04 | 0.00 |
| 42.97 | 1.24 | 0.00 | 0.00 | 0.05 | 0.00 | 43.02 | 1.30 | 0.00 | 0.00 | 0.05 | 0.00 |
| 43.06 | 1.35 | 0.00 | 0.00 | 0.05 | 0.00 | 43.11 | 1.40 | 0.00 | 0.00 | 0.04 | 0.00 |
| 43.17 | 1.45 | 0.00 | 0.00 | 0.06 | 0.00 | 43.21 | 1.51 | 0.00 | 0.00 | 0.04 | 0.00 |
| 43.29 | 1.55 | 0.00 | 0.00 | 0.08 | 0.00 | 43.34 | 1.61 | 0.00 | 0.00 | 0.05 | 0.00 |
| 43.39 | 1.65 | 0.00 | 0.00 | 0.06 | 0.00 | 43.45 | 1.67 | 0.00 | 0.00 | 0.05 | 0.00 |
| 43.51 | 1.66 | 0.00 | 0.00 | 0.06 | 0.00 | 43.59 | 1.64 | 0.00 | 0.00 | 0.08 | 0.00 |
| 43.64 | 1.60 | 0.00 | 0.00 | 0.05 | 0.00 | 43.70 | 1.54 | 0.00 | 0.00 | 0.06 | 0.00 |
| 43.78 | 1.47 | 0.00 | 0.00 | 0.09 | 0.00 | 43.88 | 1.43 | 0.00 | 0.00 | 0.10 | 0.00 |
| 43.94 | 1.39 | 0.00 | 0.00 | 0.06 | 0.00 | 44.04 | 1.31 | 0.00 | 0.00 | 0.10 | 0.00 |
| 44.07 | 1.22 | 0.00 | 0.00 | 0.03 | 0.00 | 44.12 | 1.20 | 0.00 | 0.00 | 0.05 | 0.00 |
| 44.16 | 1.17 | 0.00 | 0.00 | 0.04 | 0.00 | 44.21 | 1.14 | 0.00 | 0.00 | 0.05 | 0.00 |
| 44.26 | 1.10 | 0.00 | 0.00 | 0.05 | 0.00 | 44.31 | 1.06 | 0.00 | 0.00 | 0.05 | 0.00 |
| 44.35 | 1.03 | 0.00 | 0.00 | 0.04 | 0.00 | 44.40 | 0.99 | 0.00 | 0.00 | 0.05 | 0.00 |
| 44.45 | 0.96 | 0.00 | 0.00 | 0.05 | 0.00 | 44.50 | 0.94 | 0.00 | 0.00 | 0.05 | 0.00 |
| 44.54 | 0.93 | 0.00 | 0.00 | 0.04 | 0.00 | 44.60 | 0.91 | 0.00 | 0.00 | 0.06 | 0.01 |
| 44.64 | 0.89 | 0.00 | 0.00 | 0.05 | 0.00 | 44.69 | 0.88 | 0.00 | 0.00 | 0.05 | 0.01 |
| 44.74 | 0.87 | 0.00 | 0.00 | 0.05 | 0.01 | 44.79 | 0.87 | 0.00 | 0.00 | 0.04 | 0.01 |
| 44.83 | 0.87 | 0.00 | 0.00 | 0.05 | 0.01 | 44.88 | 0.88 | 0.00 | 0.00 | 0.05 | 0.01 |
| 44.93 | 0.89 | 0.00 | 0.00 | 0.05 | 0.01 | 44.98 | 0.91 | 0.00 | 0.00 | 0.05 | 0.00 |
| 45.03 | 0.92 | 0.00 | 0.00 | 0.05 | 0.00 | 45.08 | 0.93 | 0.00 | 0.00 | 0.06 | 0.00 |
| 45.16 | 0.94 | 0.00 | 0.00 | 0.08 | 0.00 | 45.19 | 0.94 | 0.00 | 0.00 | 0.03 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 45.27 | 0.93 | 0.00 | 0.00 | 0.08 | 0.01 | 45.32 | 0.92 | 0.00 | 0.00 | 0.05 | 0.00 |
| 45.37 | 0.89 | 0.00 | 0.00 | 0.05 | 0.00 | 45.45 | 0.85 | 0.00 | 0.00 | 0.09 | 0.01 |
| 45.51 | 0.80 | 0.00 | 0.00 | 0.05 | 0.01 | 45.56 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 45.61 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 45.69 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 45.75 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 45.81 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 45.89 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 45.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 46.04 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 46.08 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 46.15 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 46.17 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 46.18 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 46.23 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 46.27 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 46.32 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 46.41 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 46.47 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 46.52 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 46.56 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 46.65 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 46.71 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 46.76 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 46.85 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 46.90 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 46.99 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 47.04 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 47.10 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 47.16 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 47.23 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 47.30 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 47.38 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 47.43 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 47.52 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 47.59 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 47.66 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 47.77 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 47.82 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 47.91 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 47.93 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 47.97 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 48.02 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 48.07 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 48.12 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 48.19 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 48.23 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 48.31 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 48.35 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 48.40 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 48.45 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 48.50 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 48.55 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 48.59 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 48.67 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 48.73 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 48.78 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 48.83 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 48.91 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 48.98 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 49.03 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 49.12 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 49.17 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 49.27 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 49.31 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 49.38 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 49.45 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 49.51 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 49.54 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 49.59 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 49.64 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 49.73 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 49.83 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 49.92 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 49.98 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 50.07 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 50.16 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 50.24 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 50.32 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 50.41 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 50.50 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 50.56 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 50.66 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 50.74 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 50.84 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 50.93 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 50.98 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 51.08 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 51.17 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 51.24 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 51.34 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 51.41 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 51.51 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 51.58 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 51.68 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 51.79 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 51.82 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 51.85 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 51.91 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 52.00 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 52.05 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 52.10 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 52.19 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 52.28 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 52.34 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 52.42 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 52.48 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 52.57 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 52.62 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 52.69 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 52.77 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 52.87 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 52.91 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 53.01 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 53.10 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 53.16 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 53.25 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 53.29 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 53.38 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 53.42 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 53.47 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 53.52 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 53.58 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 53.66 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 53.75 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 53.81 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 53.87 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 53.95 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 54.01 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 54.06 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 54.15 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 54.20 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 54.29 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 54.34 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 54.43 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 54.45 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 54.48 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 54.52 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 54.53 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 54.58 | 0.45 | 0.00 | 0.00 | 0.05 | 0.01 | 54.62 | 0.47 | 0.00 | 0.00 | 0.04 | 0.01 |
| 54.65 | 0.50 | 0.00 | 0.00 | 0.03 | 0.01 | 54.70 | 0.52 | 0.00 | 0.00 | 0.04 | 0.01 |
| 54.76 | 0.54 | 0.00 | 0.00 | 0.06 | 0.01 | 54.77 | 0.55 | 0.00 | 0.00 | 0.01 | 0.00 |
| 54.82 | 0.55 | 0.00 | 0.00 | 0.05 | 0.01 | 54.87 | 0.56 | 0.00 | 0.00 | 0.05 | 0.01 |
| 54.88 | 0.56 | 0.00 | 0.00 | 0.01 | 0.00 | 54.91 | 0.56 | 0.00 | 0.00 | 0.03 | 0.01 |
| 54.96 | 0.58 | 0.00 | 0.00 | 0.05 | 0.01 | 54.97 | 0.62 | 0.00 | 0.00 | 0.01 | 0.00 |
| 55.03 | 0.68 | 0.00 | 0.00 | 0.06 | 0.01 | 55.09 | 0.74 | 0.00 | 0.00 | 0.06 | 0.01 |
| 55.15 | 0.75 | 0.00 | 0.00 | 0.06 | 0.01 | 55.20 | 0.76 | 0.00 | 0.00 | 0.05 | 0.01 |
| 55.25 | 0.75 | 0.00 | 0.00 | 0.05 | 0.01 | 55.30 | 0.85 | 0.00 | 0.00 | 0.05 | 0.00 |
| 55.34 | 0.93 | 0.00 | 0.00 | 0.05 | 0.00 | 55.39 | 1.12 | 0.00 | 0.00 | 0.04 | 0.00 |
| 55.40 | 1.27 | 0.00 | 0.00 | 0.01 | 0.00 | 55.44 | 1.34 | 0.00 | 0.00 | 0.04 | 0.00 |
| 55.44 | 1.34 | 0.00 | 0.00 | 0.01 | 0.00 | 55.49 | 1.42 | 0.00 | 0.00 | 0.05 | 0.00 |
| 55.54 | 1.58 | 0.00 | 0.00 | 0.05 | 0.00 | 55.59 | 1.79 | 0.00 | 0.00 | 0.05 | 0.00 |
| 55.63 | 1.90 | 0.00 | 0.00 | 0.04 | 0.00 | 55.64 | 1.91 | 0.00 | 0.00 | 0.01 | 0.00 |
| 55.68 | 1.89 | 0.00 | 0.00 | 0.04 | 0.00 | 55.69 | 1.85 | 0.00 | 0.00 | 0.01 | 0.00 |
| 55.69 | 1.88 | 0.00 | 0.00 | 0.01 | 0.00 | 55.71 | 1.98 | 0.00 | 0.00 | 0.02 | 0.00 |
| 55.76 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 55.78 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 55.81 | 1.92 | 0.00 | 0.00 | 0.04 | 0.00 | 55.85 | 1.77 | 0.00 | 0.00 | 0.04 | 0.00 |
| 55.86 | 1.80 | 0.00 | 0.00 | 0.01 | 0.00 | 55.91 | 1.88 | 0.00 | 0.00 | 0.05 | 0.00 |
| 55.92 | 1.91 | 0.00 | 0.00 | 0.01 | 0.00 | 55.96 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 55.97 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 56.00 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 56.01 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 56.03 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 56.05 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 56.10 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.12 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 56.16 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 56.17 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 56.20 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 56.22 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 56.24 | 1.95 | 0.00 | 0.00 | 0.03 | 0.00 |
| 56.30 | 1.89 | 0.00 | 0.00 | 0.06 | 0.00 | 56.31 | 1.84 | 0.00 | 0.00 | 0.01 | 0.00 |
| 56.34 | 1.76 | 0.00 | 0.00 | 0.03 | 0.00 | 56.39 | 1.70 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.45 | 1.65 | 0.00 | 0.00 | 0.06 | 0.00 | 56.48 | 1.60 | 0.00 | 0.00 | 0.03 | 0.00 |
| 56.49 | 1.53 | 0.00 | 0.00 | 0.01 | 0.00 | 56.53 | 1.60 | 0.00 | 0.00 | 0.04 | 0.00 |
| 56.58 | 1.62 | 0.00 | 0.00 | 0.05 | 0.00 | 56.63 | 1.32 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.68 | 1.33 | 0.00 | 0.00 | 0.04 | 0.00 | 56.73 | 1.36 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.78 | 1.33 | 0.00 | 0.00 | 0.05 | 0.00 | 56.83 | 1.27 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.89 | 1.35 | 0.00 | 0.00 | 0.07 | 0.00 | 56.95 | 1.43 | 0.00 | 0.00 | 0.06 | 0.00 |
| 56.99 | 1.44 | 0.00 | 0.00 | 0.04 | 0.00 | 57.01 | 1.43 | 0.00 | 0.00 | 0.01 | 0.00 |
| 57.04 | 1.43 | 0.00 | 0.00 | 0.04 | 0.00 | 57.09 | 1.44 | 0.00 | 0.00 | 0.05 | 0.00 |
| 57.11 | 1.49 | 0.00 | 0.00 | 0.02 | 0.00 | 57.13 | 1.58 | 0.00 | 0.00 | 0.03 | 0.00 |
| 57.18 | 1.63 | 0.00 | 0.00 | 0.04 | 0.00 | 57.19 | 1.62 | 0.00 | 0.00 | 0.01 | 0.00 |
| 57.21 | 1.56 | 0.00 | 0.00 | 0.03 | 0.00 | 57.24 | 1.50 | 0.00 | 0.00 | 0.02 | 0.00 |
| 57.28 | 1.49 | 0.00 | 0.00 | 0.05 | 0.00 | 57.32 | 1.44 | 0.00 | 0.00 | 0.04 | 0.00 |
| 57.35 | 1.41 | 0.00 | 0.00 | 0.04 | 0.00 | 57.38 | 1.36 | 0.00 | 0.00 | 0.03 | 0.00 |
| 57.43 | 1.32 | 0.00 | 0.00 | 0.04 | 0.00 | 57.48 | 1.21 | 0.00 | 0.00 | 0.05 | 0.00 |
| 57.52 | 1.10 | 0.00 | 0.00 | 0.05 | 0.00 | 57.57 | 1.07 | 0.00 | 0.00 | 0.05 | 0.00 |
| 57.62 | 1.14 | 0.00 | 0.00 | 0.05 | 0.00 | 57.68 | 1.35 | 0.00 | 0.00 | 0.06 | 0.00 |
| 57.76 | 1.55 | 0.00 | 0.00 | 0.08 | 0.00 | 57.81 | 1.44 | 0.00 | 0.00 | 0.05 | 0.00 |
| 57.86 | 1.40 | 0.00 | 0.00 | 0.05 | 0.00 | 57.89 | 1.60 | 0.00 | 0.00 | 0.03 | 0.00 |
| 57.91 | 1.68 | 0.00 | 0.00 | 0.02 | 0.00 | 57.92 | 1.63 | 0.00 | 0.00 | 0.01 | 0.00 |
| 57.95 | 1.57 | 0.00 | 0.00 | 0.03 | 0.00 | 57.99 | 1.58 | 0.00 | 0.00 | 0.04 | 0.00 |
| 58.01 | 1.64 | 0.00 | 0.00 | 0.02 | 0.00 | 58.05 | 1.73 | 0.00 | 0.00 | 0.04 | 0.00 |
| 58.05 | 1.79 | 0.00 | 0.00 | 0.01 | 0.00 | 58.10 | 1.83 | 0.00 | 0.00 | 0.05 | 0.00 |
| 58.13 | 1.88 | 0.00 | 0.00 | 0.03 | 0.00 | 58.15 | 1.94 | 0.00 | 0.00 | 0.01 | 0.00 |
| 58.17 | 1.99 | 0.00 | 0.00 | 0.03 | 0.00 | 58.20 | 1.98 | 0.00 | 0.00 | 0.02 | 0.00 |
| 58.21 | 1.94 | 0.00 | 0.00 | 0.01 | 0.00 | 58.21 | 1.90 | 0.00 | 0.00 | 0.00 | 0.00 |
| 58.23 | 1.90 | 0.00 | 0.00 | 0.02 | 0.00 | 58.24 | 1.85 | 0.00 | 0.00 | 0.01 | 0.00 |
| 58.25 | 1.86 | 0.00 | 0.00 | 0.01 | 0.00 | 58.29 | 1.90 | 0.00 | 0.00 | 0.04 | 0.00 |
| 58.31 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 58.33 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 58.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 58.39 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 58.43 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 58.43 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 58.48 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 58.53 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 58.56 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 58.58 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 58.59 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 58.63 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 58.63 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 | 58.63 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 58.68 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 58.69 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 58.72 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 58.73 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 58.74 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 58.77 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 58.81 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 58.82 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 58.83 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 58.87 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 58.91 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 58.92 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 58.93 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 58.96 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 59.01 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 59.06 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 59.08 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 59.11 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 59.15 | 1.96 | 0.00 | 0.00 | 0.04 | 0.00 | 59.21 | 1.89 | 0.00 | 0.00 | 0.05 | 0.00 |
| 59.26 | 1.89 | 0.00 | 0.00 | 0.05 | 0.00 | 59.30 | 1.74 | 0.00 | 0.00 | 0.04 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 59.35 | 1.64 | 0.00 | 0.00 | 0.05 | 0.00 | 59.40 | 1.63 | 0.00 | 0.00 | 0.05 | 0.00 |
| 59.42 | 1.62 | 0.00 | 0.00 | 0.02 | 0.00 | 59.47 | 1.61 | 0.00 | 0.00 | 0.05 | 0.00 |
| 59.51 | 1.63 | 0.00 | 0.00 | 0.05 | 0.00 | 59.56 | 1.63 | 0.00 | 0.00 | 0.05 | 0.00 |
| 59.61 | 1.53 | 0.00 | 0.00 | 0.05 | 0.00 | 59.67 | 1.34 | 0.00 | 0.00 | 0.05 | 0.00 |
| 59.71 | 1.41 | 0.00 | 0.00 | 0.04 | 0.00 | 59.80 | 1.42 | 0.00 | 0.00 | 0.09 | 0.00 |
| 59.85 | 1.40 | 0.00 | 0.00 | 0.05 | 0.00 | 59.90 | 1.33 | 0.00 | 0.00 | 0.05 | 0.00 |
| 60.00 | 1.33 | 0.00 | 0.00 | 0.10 | 0.00 | 60.04 | 1.33 | 0.00 | 0.00 | 0.05 | 0.00 |
| 60.10 | 1.23 | 0.00 | 0.00 | 0.06 | 0.00 | 60.15 | 1.13 | 0.00 | 0.00 | 0.05 | 0.00 |
| 60.19 | 1.03 | 0.00 | 0.00 | 0.03 | 0.00 | 60.23 | 1.01 | 0.00 | 0.00 | 0.05 | 0.00 |
| 60.28 | 1.00 | 0.00 | 0.00 | 0.05 | 0.00 | 60.33 | 1.03 | 0.00 | 0.00 | 0.05 | 0.00 |
| 60.38 | 1.05 | 0.00 | 0.00 | 0.04 | 0.00 | 60.42 | 1.05 | 0.00 | 0.00 | 0.04 | 0.00 |
| 60.44 | 1.05 | 0.00 | 0.00 | 0.02 | 0.00 | 60.47 | 1.14 | 0.00 | 0.00 | 0.02 | 0.00 |
| 60.52 | 1.20 | 0.00 | 0.00 | 0.05 | 0.00 | 60.56 | 1.24 | 0.00 | 0.00 | 0.04 | 0.00 |
| 60.57 | 1.25 | 0.00 | 0.00 | 0.01 | 0.00 | 60.61 | 1.25 | 0.00 | 0.00 | 0.04 | 0.00 |
| 60.66 | 1.27 | 0.00 | 0.00 | 0.05 | 0.00 | 60.71 | 1.29 | 0.00 | 0.00 | 0.05 | 0.00 |
| 60.76 | 1.36 | 0.00 | 0.00 | 0.05 | 0.00 | 60.81 | 1.43 | 0.00 | 0.00 | 0.05 | 0.00 |
| 60.86 | 1.46 | 0.00 | 0.00 | 0.05 | 0.00 | 60.91 | 1.41 | 0.00 | 0.00 | 0.05 | 0.00 |
| 60.95 | 1.69 | 0.00 | 0.00 | 0.04 | 0.00 | 61.00 | 1.97 | 0.00 | 0.00 | 0.05 | 0.00 |
| 61.02 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 61.05 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 61.08 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 61.09 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 61.13 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 61.14 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 61.16 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 61.20 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 61.23 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 61.24 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 61.29 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 61.30 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 61.33 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 61.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 61.43 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 61.48 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 61.53 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 61.56 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 61.58 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 61.59 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 61.62 | 1.66 | 0.00 | 0.00 | 0.03 | 0.00 | 61.63 | 1.62 | 0.00 | 0.00 | 0.02 | 0.00 |
| 61.67 | 1.57 | 0.00 | 0.00 | 0.03 | 0.00 | 61.71 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 61.76 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 61.81 | 1.90 | 0.00 | 0.00 | 0.05 | 0.00 |
| 61.86 | 1.75 | 0.00 | 0.00 | 0.05 | 0.00 | 61.87 | 1.65 | 0.00 | 0.00 | 0.01 | 0.00 |
| 61.91 | 1.57 | 0.00 | 0.00 | 0.04 | 0.00 | 61.95 | 1.49 | 0.00 | 0.00 | 0.04 | 0.00 |
| 61.96 | 1.42 | 0.00 | 0.00 | 0.01 | 0.00 | 62.00 | 1.34 | 0.00 | 0.00 | 0.04 | 0.00 |
| 62.04 | 1.23 | 0.00 | 0.00 | 0.04 | 0.00 | 62.06 | 1.11 | 0.00 | 0.00 | 0.02 | 0.00 |
| 62.10 | 1.01 | 0.00 | 0.00 | 0.04 | 0.00 | 62.14 | 0.94 | 0.00 | 0.00 | 0.04 | 0.00 |
| 62.20 | 0.88 | 0.00 | 0.00 | 0.05 | 0.00 | 62.22 | 0.79 | 0.00 | 0.00 | 0.02 | 0.00 |
| 62.27 | 0.82 | 0.00 | 0.00 | 0.05 | 0.00 | 62.29 | 0.83 | 0.00 | 0.00 | 0.02 | 0.00 |
| 62.34 | 0.81 | 0.00 | 0.00 | 0.05 | 0.00 | 62.39 | 0.80 | 0.00 | 0.00 | 0.04 | 0.00 |
| 62.43 | 0.77 | 0.00 | 0.00 | 0.05 | 0.00 | 62.49 | 0.77 | 0.00 | 0.00 | 0.06 | 0.00 |
| 62.57 | 0.78 | 0.00 | 0.00 | 0.08 | 0.00 | 62.68 | 0.86 | 0.00 | 0.00 | 0.10 | 0.00 |
| 62.75 | 1.04 | 0.00 | 0.00 | 0.08 | 0.00 | 62.87 | 1.18 | 0.00 | 0.00 | 0.12 | 0.00 |
| 62.88 | 1.09 | 0.00 | 0.00 | 0.01 | 0.00 | 62.89 | 1.09 | 0.00 | 0.00 | 0.01 | 0.00 |
| 62.93 | 1.10 | 0.00 | 0.00 | 0.04 | 0.00 | 62.98 | 1.42 | 0.00 | 0.00 | 0.05 | 0.00 |
| 63.02 | 1.75 | 0.00 | 0.00 | 0.05 | 0.00 | 63.07 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 63.12 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 63.14 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 63.17 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 63.17 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 63.20 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 63.21 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 63.23 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 63.26 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 63.28 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 63.31 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 63.32 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 63.36 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 63.40 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | | | | | | |

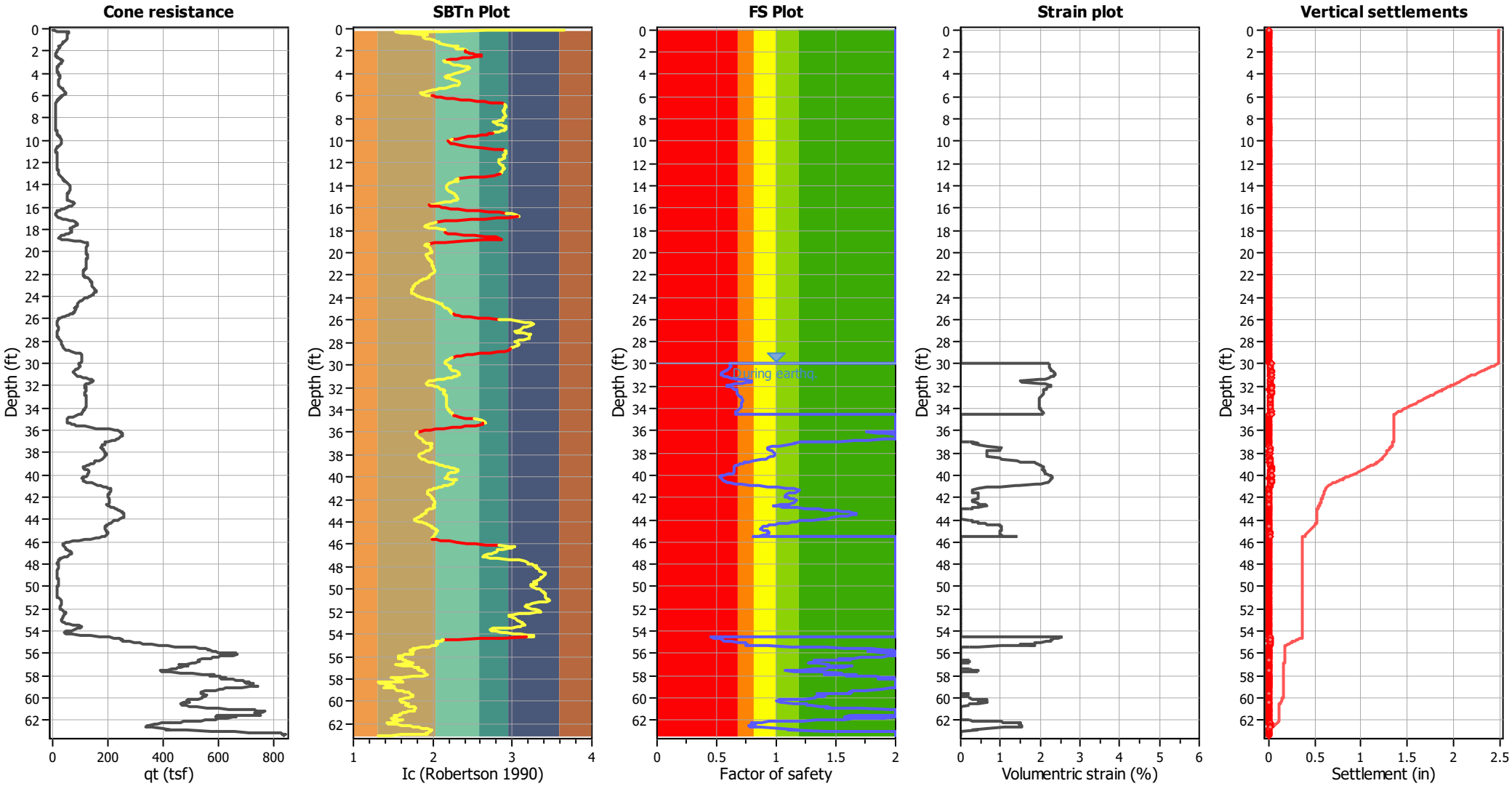
**Overall liquefaction potential: 3.79**

LPI = 0.00 - Liquefaction risk very low
LPI between 0.00 and 5.00 - Liquefaction risk low
LPI between 5.00 and 15.00 - Liquefaction risk high
LPI > 15.00 - Liquefaction risk very high

**Abbreviations**

FS: Calculated factor of safety for test point
$F_L$: 1 - FS
$w_z$: Function value of the extend of soil liquefaction according to depth
$d_z$: Layer thickness (ft)
LPI: Liquefaction potential index value for test point

## Estimation of post-earthquake settlements




**Abbreviations**

| | |
|---|---|
| $q_t$: | Total cone resistance (cone resistance $q_c$ corrected for pore water effects) |
| $I_c$: | Soil Behaviour Type Index |
| FS: | Calculated Factor of Safety against liquefaction |
| Volumentric strain: | Post-liquefaction volumentric strain |

**:: Post-earthquake settlement due to soil liquefaction ::**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 30.00 | 104.86 | 0.61 | 2.25 | 1.00 | 0.02 | 30.07 | 105.36 | 0.62 | 2.24 | 1.00 | 0.02 |
| 30.15 | 105.54 | 0.62 | 2.24 | 1.00 | 0.02 | 30.21 | 105.77 | 0.62 | 2.23 | 1.00 | 0.02 |
| 30.26 | 105.66 | 0.62 | 2.23 | 1.00 | 0.01 | 30.31 | 105.39 | 0.61 | 2.24 | 1.00 | 0.01 |
| 30.38 | 104.86 | 0.61 | 2.25 | 1.00 | 0.02 | 30.45 | 104.23 | 0.60 | 2.26 | 1.00 | 0.02 |
| 30.50 | 103.72 | 0.60 | 2.27 | 1.00 | 0.01 | 30.55 | 102.88 | 0.59 | 2.28 | 1.00 | 0.01 |
| 30.64 | 101.83 | 0.58 | 2.30 | 1.00 | 0.03 | 30.70 | 100.16 | 0.56 | 2.33 | 1.00 | 0.01 |
| 30.79 | 98.96 | 0.55 | 2.36 | 1.00 | 0.03 | 30.84 | 98.19 | 0.54 | 2.37 | 1.00 | 0.01 |
| 30.93 | 98.05 | 0.54 | 2.37 | 1.00 | 0.03 | 30.98 | 98.14 | 0.54 | 2.37 | 1.00 | 0.01 |
| 31.05 | 98.98 | 0.55 | 2.36 | 1.00 | 0.02 | 31.13 | 100.51 | 0.56 | 2.33 | 1.00 | 0.02 |
| 31.17 | 102.97 | 0.58 | 2.28 | 1.00 | 0.01 | 31.27 | 106.25 | 0.61 | 2.22 | 1.00 | 0.03 |
| 31.32 | 111.37 | 0.67 | 2.11 | 1.00 | 0.01 | 31.41 | 116.56 | 0.73 | 1.98 | 1.00 | 0.02 |
| 31.46 | 120.72 | 0.78 | 1.54 | 1.00 | 0.01 | 31.52 | 122.24 | 0.80 | 1.52 | 1.00 | 0.01 |
| 31.61 | 121.83 | 0.79 | 1.52 | 1.00 | 0.02 | 31.66 | 119.20 | 0.76 | 1.57 | 1.00 | 0.01 |
| 31.75 | 115.29 | 0.71 | 2.01 | 1.00 | 0.02 | 31.80 | 110.68 | 0.66 | 2.13 | 1.00 | 0.01 |
| 31.90 | 106.52 | 0.61 | 2.22 | 1.00 | 0.03 | 31.94 | 104.07 | 0.59 | 2.26 | 1.00 | 0.01 |
| 32.04 | 104.00 | 0.59 | 2.26 | 1.00 | 0.03 | 32.09 | 107.23 | 0.62 | 2.21 | 1.00 | 0.01 |
| 32.20 | 109.06 | 0.63 | 2.18 | 1.00 | 0.03 | 32.24 | 110.44 | 0.65 | 2.15 | 1.00 | 0.01 |
| 32.28 | 110.26 | 0.65 | 2.16 | 1.00 | 0.01 | 32.29 | 111.09 | 0.66 | 2.12 | 1.00 | 0.00 |
| 32.30 | 112.06 | 0.67 | 2.09 | 1.00 | 0.00 | 32.40 | 112.71 | 0.67 | 2.07 | 1.00 | 0.02 |
| 32.45 | 112.95 | 0.67 | 2.07 | 1.00 | 0.01 | 32.55 | 112.51 | 0.67 | 2.08 | 1.00 | 0.02 |
| 32.59 | 112.50 | 0.67 | 2.08 | 1.00 | 0.01 | 32.69 | 112.79 | 0.67 | 2.07 | 1.00 | 0.02 |
| 32.76 | 113.51 | 0.68 | 2.05 | 1.00 | 0.02 | 32.84 | 114.35 | 0.69 | 2.03 | 1.00 | 0.02 |
| 32.90 | 115.19 | 0.70 | 2.01 | 1.00 | 0.02 | 32.98 | 115.83 | 0.70 | 2.00 | 1.00 | 0.02 |
| 33.06 | 116.33 | 0.71 | 1.98 | 1.00 | 0.02 | 33.12 | 116.77 | 0.71 | 1.97 | 1.00 | 0.02 |
| 33.22 | 117.03 | 0.72 | 1.97 | 1.00 | 0.02 | 33.31 | 117.14 | 0.72 | 1.96 | 1.00 | 0.02 |
| 33.37 | 117.11 | 0.72 | 1.96 | 1.00 | 0.01 | 33.46 | 117.00 | 0.71 | 1.97 | 1.00 | 0.02 |
| 33.55 | 117.00 | 0.71 | 1.97 | 1.00 | 0.02 | 33.65 | 117.07 | 0.71 | 1.97 | 1.00 | 0.02 |
| 33.70 | 117.18 | 0.71 | 1.96 | 1.00 | 0.01 | 33.79 | 117.10 | 0.71 | 1.97 | 1.00 | 0.02 |
| 33.89 | 116.76 | 0.71 | 1.97 | 1.00 | 0.02 | 33.99 | 116.20 | 0.70 | 1.99 | 1.00 | 0.02 |
| 34.04 | 115.43 | 0.69 | 2.01 | 1.00 | 0.01 | 34.13 | 114.59 | 0.68 | 2.03 | 1.00 | 0.02 |
| 34.23 | 113.76 | 0.67 | 2.05 | 1.00 | 0.02 | 34.32 | 113.20 | 0.66 | 2.06 | 1.00 | 0.02 |
| 34.37 | 112.84 | 0.66 | 2.07 | 1.00 | 0.01 | 34.47 | 112.69 | 0.66 | 2.08 | 1.00 | 0.02 |
| 34.55 | 112.96 | 2.00 | 0.00 | 1.00 | 0.00 | 34.63 | 114.64 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.73 | 118.21 | 2.00 | 0.00 | 1.00 | 0.00 | 34.80 | 123.59 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.90 | 127.28 | 2.00 | 0.00 | 1.00 | 0.00 | 35.00 | 121.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.12 | 117.31 | 2.00 | 0.00 | 1.00 | 0.00 | 35.20 | 112.19 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.33 | 114.42 | 2.00 | 0.00 | 1.00 | 0.00 | 35.41 | 110.34 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.44 | 108.02 | 2.00 | 0.00 | 1.00 | 0.00 | 35.48 | 103.82 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.57 | 101.05 | 2.00 | 0.00 | 1.00 | 0.00 | 35.62 | 98.99 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.67 | 102.07 | 2.00 | 0.00 | 1.00 | 0.00 | 35.71 | 112.52 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.82 | 126.36 | 2.00 | 0.00 | 1.00 | 0.00 | 35.86 | 143.07 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.93 | 156.85 | 2.00 | 0.00 | 1.00 | 0.00 | 36.01 | 166.33 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.06 | 171.69 | 2.00 | 0.00 | 1.00 | 0.00 | 36.12 | 174.89 | 1.75 | 0.00 | 1.00 | 0.00 |
| 36.18 | 178.20 | 1.84 | 0.00 | 1.00 | 0.00 | 36.25 | 180.98 | 1.91 | 0.00 | 1.00 | 0.00 |
| 36.30 | 184.12 | 2.00 | 0.00 | 1.00 | 0.00 | 36.39 | 185.99 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.44 | 187.57 | 2.00 | 0.00 | 1.00 | 0.00 | 36.53 | 187.51 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.59 | 187.43 | 2.00 | 0.00 | 1.00 | 0.00 | 36.68 | 184.49 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.75 | 180.99 | 1.91 | 0.00 | 1.00 | 0.00 | 36.83 | 175.91 | 1.77 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 36.90 | 171.34 | 1.65 | 0.00 | 1.00 | 0.00 | 36.97 | 166.05 | 1.53 | 0.00 | 1.00 | 0.00 |
| 37.02 | 156.23 | 1.31 | 0.21 | 1.00 | 0.00 | 37.04 | 151.13 | 1.21 | 0.30 | 1.00 | 0.00 |
| 37.08 | 147.61 | 1.14 | 0.43 | 1.00 | 0.00 | 37.17 | 148.65 | 1.16 | 0.31 | 1.00 | 0.00 |
| 37.27 | 145.04 | 1.09 | 0.43 | 1.00 | 0.01 | 37.37 | 140.68 | 1.02 | 0.64 | 1.00 | 0.01 |
| 37.42 | 137.22 | 0.96 | 0.66 | 1.00 | 0.00 | 37.51 | 135.25 | 0.93 | 1.00 | 1.00 | 0.01 |
| 37.58 | 134.76 | 0.92 | 1.01 | 1.00 | 0.01 | 37.66 | 135.08 | 0.93 | 1.00 | 1.00 | 0.01 |
| 37.76 | 136.26 | 0.95 | 0.99 | 1.00 | 0.01 | 37.85 | 137.18 | 0.96 | 0.66 | 1.00 | 0.01 |
| 37.93 | 138.14 | 0.97 | 0.65 | 1.00 | 0.01 | 38.04 | 138.80 | 0.98 | 0.65 | 1.00 | 0.01 |
| 38.13 | 139.30 | 0.99 | 0.65 | 1.00 | 0.01 | 38.18 | 139.16 | 0.99 | 0.65 | 1.00 | 0.00 |
| 38.28 | 138.51 | 0.98 | 0.65 | 1.00 | 0.01 | 38.37 | 137.08 | 0.95 | 0.66 | 1.00 | 0.01 |
| 38.47 | 135.63 | 0.93 | 1.00 | 1.00 | 0.01 | 38.57 | 134.14 | 0.91 | 1.02 | 1.00 | 0.01 |
| 38.62 | 132.48 | 0.88 | 1.03 | 1.00 | 0.01 | 38.72 | 127.27 | 0.81 | 1.43 | 1.00 | 0.02 |
| 38.78 | 123.72 | 0.76 | 1.49 | 1.00 | 0.01 | 38.81 | 121.63 | 0.74 | 1.86 | 1.00 | 0.01 |
| 38.86 | 121.68 | 0.74 | 1.86 | 1.00 | 0.01 | 38.91 | 120.51 | 0.72 | 1.89 | 1.00 | 0.01 |
| 38.95 | 118.55 | 0.70 | 1.93 | 1.00 | 0.01 | 39.05 | 116.91 | 0.68 | 1.97 | 1.00 | 0.02 |
| 39.09 | 115.64 | 0.67 | 2.00 | 1.00 | 0.01 | 39.14 | 114.83 | 0.66 | 2.02 | 1.00 | 0.01 |
| 39.24 | 114.32 | 0.65 | 2.03 | 1.00 | 0.02 | 39.29 | 114.03 | 0.65 | 2.10 | 1.00 | 0.01 |
| 39.39 | 114.16 | 0.65 | 2.10 | 1.00 | 0.02 | 39.43 | 114.28 | 0.65 | 2.03 | 1.00 | 0.01 |
| 39.53 | 113.89 | 0.65 | 2.10 | 1.00 | 0.03 | 39.57 | 113.55 | 0.64 | 2.11 | 1.00 | 0.01 |
| 39.68 | 113.69 | 0.64 | 2.10 | 1.00 | 0.03 | 39.73 | 113.53 | 0.64 | 2.11 | 1.00 | 0.01 |
| 39.81 | 112.48 | 0.63 | 2.12 | 1.00 | 0.02 | 39.89 | 109.51 | 0.60 | 2.17 | 1.00 | 0.02 |
| 39.96 | 105.89 | 0.56 | 2.23 | 1.00 | 0.02 | 40.06 | 103.14 | 0.54 | 2.28 | 1.00 | 0.03 |
| 40.15 | 102.38 | 0.53 | 2.29 | 1.00 | 0.02 | 40.20 | 102.07 | 0.53 | 2.30 | 1.00 | 0.02 |
| 40.24 | 102.62 | 0.53 | 2.29 | 1.00 | 0.01 | 40.26 | 103.22 | 0.54 | 2.28 | 1.00 | 0.00 |
| 40.27 | 103.36 | 0.54 | 2.27 | 1.00 | 0.00 | 40.37 | 103.81 | 0.55 | 2.27 | 1.00 | 0.03 |
| 40.42 | 104.71 | 0.55 | 2.25 | 1.00 | 0.01 | 40.52 | 105.44 | 0.56 | 2.24 | 1.00 | 0.03 |
| 40.56 | 106.63 | 0.57 | 2.22 | 1.00 | 0.01 | 40.66 | 108.06 | 0.58 | 2.19 | 1.00 | 0.03 |
| 40.70 | 110.67 | 0.61 | 2.15 | 1.00 | 0.01 | 40.75 | 114.79 | 0.65 | 2.02 | 1.00 | 0.01 |
| 40.85 | 119.75 | 0.71 | 1.90 | 1.00 | 0.02 | 40.91 | 125.10 | 0.77 | 1.47 | 1.00 | 0.01 |
| 40.96 | 130.56 | 0.85 | 1.38 | 1.00 | 0.01 | 41.04 | 135.59 | 0.92 | 1.00 | 1.00 | 0.01 |
| 41.09 | 141.03 | 1.01 | 0.64 | 1.00 | 0.00 | 41.18 | 145.57 | 1.08 | 0.43 | 1.00 | 0.00 |
| 41.23 | 149.12 | 1.15 | 0.43 | 1.00 | 0.00 | 41.29 | 151.17 | 1.19 | 0.30 | 1.00 | 0.00 |
| 41.38 | 151.67 | 1.19 | 0.30 | 1.00 | 0.00 | 41.42 | 151.21 | 1.19 | 0.30 | 1.00 | 0.00 |
| 41.52 | 149.86 | 1.16 | 0.31 | 1.00 | 0.00 | 41.57 | 148.26 | 1.13 | 0.43 | 1.00 | 0.00 |
| 41.62 | 146.93 | 1.11 | 0.43 | 1.00 | 0.00 | 41.71 | 145.89 | 1.09 | 0.43 | 1.00 | 0.00 |
| 41.76 | 145.43 | 1.08 | 0.43 | 1.00 | 0.00 | 41.84 | 145.17 | 1.08 | 0.43 | 1.00 | 0.00 |
| 41.91 | 145.22 | 1.08 | 0.43 | 1.00 | 0.00 | 41.95 | 145.53 | 1.08 | 0.43 | 1.00 | 0.00 |
| 42.01 | 146.36 | 1.10 | 0.43 | 1.00 | 0.00 | 42.10 | 147.40 | 1.11 | 0.43 | 1.00 | 0.00 |
| 42.15 | 148.90 | 1.14 | 0.43 | 1.00 | 0.00 | 42.24 | 149.94 | 1.16 | 0.31 | 1.00 | 0.00 |
| 42.28 | 150.31 | 1.17 | 0.31 | 1.00 | 0.00 | 42.39 | 149.81 | 1.16 | 0.31 | 1.00 | 0.00 |
| 42.43 | 149.14 | 1.14 | 0.43 | 1.00 | 0.00 | 42.50 | 148.36 | 1.13 | 0.43 | 1.00 | 0.00 |
| 42.58 | 147.54 | 1.12 | 0.43 | 1.00 | 0.00 | 42.65 | 142.73 | 1.03 | 0.63 | 1.00 | 0.01 |
| 42.70 | 140.58 | 1.00 | 0.64 | 1.00 | 0.00 | 42.73 | 139.14 | 0.97 | 0.65 | 1.00 | 0.00 |
| 42.77 | 142.31 | 1.02 | 0.64 | 1.00 | 0.00 | 42.82 | 144.06 | 1.05 | 0.43 | 1.00 | 0.00 |
| 42.87 | 146.92 | 1.10 | 0.43 | 1.00 | 0.00 | 42.91 | 150.57 | 1.17 | 0.30 | 1.00 | 0.00 |
| 42.97 | 154.27 | 1.24 | 0.30 | 1.00 | 0.00 | 43.02 | 157.35 | 1.30 | 0.21 | 1.00 | 0.00 |
| 43.06 | 159.72 | 1.35 | 0.00 | 1.00 | 0.00 | 43.11 | 162.21 | 1.40 | 0.00 | 1.00 | 0.00 |
| 43.17 | 164.40 | 1.45 | 0.00 | 1.00 | 0.00 | 43.21 | 166.83 | 1.51 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 43.29 | 168.85 | 1.55 | 0.00 | 1.00 | 0.00 | 43.34 | 171.05 | 1.61 | 0.00 | 1.00 | 0.00 |
| 43.39 | 172.71 | 1.65 | 0.00 | 1.00 | 0.00 | 43.45 | 173.74 | 1.67 | 0.00 | 1.00 | 0.00 |
| 43.51 | 173.50 | 1.66 | 0.00 | 1.00 | 0.00 | 43.59 | 172.47 | 1.64 | 0.00 | 1.00 | 0.00 |
| 43.64 | 170.73 | 1.60 | 0.00 | 1.00 | 0.00 | 43.70 | 168.10 | 1.54 | 0.00 | 1.00 | 0.00 |
| 43.78 | 165.08 | 1.47 | 0.00 | 1.00 | 0.00 | 43.88 | 163.55 | 1.43 | 0.00 | 1.00 | 0.00 |
| 43.94 | 161.52 | 1.39 | 0.00 | 1.00 | 0.00 | 44.04 | 157.74 | 1.31 | 0.21 | 1.00 | 0.00 |
| 44.07 | 153.31 | 1.22 | 0.30 | 1.00 | 0.00 | 44.12 | 152.08 | 1.20 | 0.30 | 1.00 | 0.00 |
| 44.16 | 150.70 | 1.17 | 0.30 | 1.00 | 0.00 | 44.21 | 148.86 | 1.14 | 0.43 | 1.00 | 0.00 |
| 44.26 | 146.86 | 1.10 | 0.43 | 1.00 | 0.00 | 44.31 | 144.63 | 1.06 | 0.43 | 1.00 | 0.00 |
| 44.35 | 142.44 | 1.03 | 0.64 | 1.00 | 0.00 | 44.40 | 140.32 | 0.99 | 0.64 | 1.00 | 0.00 |
| 44.45 | 138.56 | 0.96 | 0.65 | 1.00 | 0.00 | 44.50 | 137.24 | 0.94 | 0.98 | 1.00 | 0.01 |
| 44.54 | 136.15 | 0.93 | 0.99 | 1.00 | 0.00 | 44.60 | 134.97 | 0.91 | 1.01 | 1.00 | 0.01 |
| 44.64 | 133.85 | 0.89 | 1.02 | 1.00 | 0.01 | 44.69 | 132.85 | 0.88 | 1.03 | 1.00 | 0.01 |
| 44.74 | 132.59 | 0.87 | 1.03 | 1.00 | 0.01 | 44.79 | 132.34 | 0.87 | 1.04 | 1.00 | 0.01 |
| 44.83 | 132.53 | 0.87 | 1.03 | 1.00 | 0.01 | 44.88 | 132.96 | 0.88 | 1.03 | 1.00 | 0.01 |
| 44.93 | 134.02 | 0.89 | 1.02 | 1.00 | 0.01 | 44.98 | 135.20 | 0.91 | 1.00 | 1.00 | 0.01 |
| 45.03 | 135.95 | 0.92 | 1.00 | 1.00 | 0.01 | 45.08 | 136.45 | 0.93 | 0.99 | 1.00 | 0.01 |
| 45.16 | 136.81 | 0.94 | 0.99 | 1.00 | 0.01 | 45.19 | 136.91 | 0.94 | 0.98 | 1.00 | 0.00 |
| 45.27 | 136.53 | 0.93 | 0.99 | 1.00 | 0.01 | 45.32 | 135.53 | 0.92 | 1.00 | 1.00 | 0.01 |
| 45.37 | 133.73 | 0.89 | 1.02 | 1.00 | 0.01 | 45.45 | 131.17 | 0.85 | 1.05 | 1.00 | 0.01 |
| 45.51 | 127.52 | 0.80 | 1.42 | 1.00 | 0.01 | 45.56 | 123.37 | 2.00 | 0.00 | 1.00 | 0.00 |
| 45.61 | 117.60 | 2.00 | 0.00 | 1.00 | 0.00 | 45.69 | 111.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 45.75 | 108.19 | 2.00 | 0.00 | 1.00 | 0.00 | 45.81 | 105.04 | 2.00 | 0.00 | 1.00 | 0.00 |
| 45.89 | 105.10 | 2.00 | 0.00 | 1.00 | 0.00 | 45.94 | 103.73 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.04 | 108.05 | 2.00 | 0.00 | 1.00 | 0.00 | 46.08 | 112.07 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.15 | 109.85 | 2.00 | 0.00 | 1.00 | 0.00 | 46.17 | 110.89 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.18 | 110.17 | 2.00 | 0.00 | 1.00 | 0.00 | 46.23 | 109.18 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.27 | 107.58 | 2.00 | 0.00 | 1.00 | 0.00 | 46.32 | 105.33 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.41 | 107.19 | 2.00 | 0.00 | 1.00 | 0.00 | 46.47 | 106.19 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.52 | 106.89 | 2.00 | 0.00 | 1.00 | 0.00 | 46.56 | 109.81 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.65 | 113.60 | 2.00 | 0.00 | 1.00 | 0.00 | 46.71 | 117.68 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.76 | 120.04 | 2.00 | 0.00 | 1.00 | 0.00 | 46.85 | 120.43 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.90 | 118.71 | 2.00 | 0.00 | 1.00 | 0.00 | 46.99 | 116.19 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.04 | 114.63 | 2.00 | 0.00 | 1.00 | 0.00 | 47.10 | 114.71 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.16 | 116.10 | 2.00 | 0.00 | 1.00 | 0.00 | 47.23 | 117.23 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.30 | 117.96 | 2.00 | 0.00 | 1.00 | 0.00 | 47.38 | 113.48 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.43 | 111.84 | 2.00 | 0.00 | 1.00 | 0.00 | 47.52 | 105.92 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.59 | 93.23 | 2.00 | 0.00 | 1.00 | 0.00 | 47.66 | 81.89 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.77 | 74.67 | 2.00 | 0.00 | 1.00 | 0.00 | 47.82 | 75.76 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.91 | 76.63 | 2.00 | 0.00 | 1.00 | 0.00 | 47.93 | 77.65 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.97 | 78.37 | 2.00 | 0.00 | 1.00 | 0.00 | 48.02 | 79.56 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.07 | 81.21 | 2.00 | 0.00 | 1.00 | 0.00 | 48.12 | 84.04 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.19 | 86.54 | 2.00 | 0.00 | 1.00 | 0.00 | 48.23 | 88.74 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.31 | 89.88 | 2.00 | 0.00 | 1.00 | 0.00 | 48.35 | 90.92 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.40 | 91.72 | 2.00 | 0.00 | 1.00 | 0.00 | 48.45 | 92.39 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.50 | 92.93 | 2.00 | 0.00 | 1.00 | 0.00 | 48.55 | 93.37 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.59 | 94.24 | 2.00 | 0.00 | 1.00 | 0.00 | 48.67 | 94.62 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.73 | 94.36 | 2.00 | 0.00 | 1.00 | 0.00 | 48.78 | 92.80 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 48.83 | 90.68 | 2.00 | 0.00 | 1.00 | 0.00 | 48.91 | 88.35 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.98 | 86.35 | 2.00 | 0.00 | 1.00 | 0.00 | 49.03 | 85.19 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.12 | 82.90 | 2.00 | 0.00 | 1.00 | 0.00 | 49.17 | 79.48 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.27 | 76.51 | 2.00 | 0.00 | 1.00 | 0.00 | 49.31 | 76.55 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.38 | 78.88 | 2.00 | 0.00 | 1.00 | 0.00 | 49.45 | 81.15 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.51 | 83.00 | 2.00 | 0.00 | 1.00 | 0.00 | 49.54 | 84.13 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.59 | 84.45 | 2.00 | 0.00 | 1.00 | 0.00 | 49.64 | 83.63 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.73 | 83.01 | 2.00 | 0.00 | 1.00 | 0.00 | 49.83 | 82.47 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.92 | 82.19 | 2.00 | 0.00 | 1.00 | 0.00 | 49.98 | 81.62 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.07 | 81.01 | 2.00 | 0.00 | 1.00 | 0.00 | 50.16 | 80.51 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.24 | 80.06 | 2.00 | 0.00 | 1.00 | 0.00 | 50.32 | 79.87 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.41 | 80.02 | 2.00 | 0.00 | 1.00 | 0.00 | 50.50 | 80.09 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.56 | 79.36 | 2.00 | 0.00 | 1.00 | 0.00 | 50.66 | 78.27 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.74 | 77.53 | 2.00 | 0.00 | 1.00 | 0.00 | 50.84 | 79.62 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.93 | 83.88 | 2.00 | 0.00 | 1.00 | 0.00 | 50.98 | 92.08 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.08 | 102.75 | 2.00 | 0.00 | 1.00 | 0.00 | 51.17 | 113.31 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.24 | 122.80 | 2.00 | 0.00 | 1.00 | 0.00 | 51.34 | 129.12 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.41 | 122.59 | 2.00 | 0.00 | 1.00 | 0.00 | 51.51 | 115.66 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.58 | 106.93 | 2.00 | 0.00 | 1.00 | 0.00 | 51.68 | 109.98 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.79 | 110.16 | 2.00 | 0.00 | 1.00 | 0.00 | 51.82 | 110.15 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.85 | 111.07 | 2.00 | 0.00 | 1.00 | 0.00 | 51.91 | 113.23 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.00 | 116.25 | 2.00 | 0.00 | 1.00 | 0.00 | 52.05 | 118.92 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.10 | 118.95 | 2.00 | 0.00 | 1.00 | 0.00 | 52.19 | 115.81 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.28 | 111.69 | 2.00 | 0.00 | 1.00 | 0.00 | 52.34 | 109.32 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.42 | 109.66 | 2.00 | 0.00 | 1.00 | 0.00 | 52.48 | 111.03 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.57 | 111.27 | 2.00 | 0.00 | 1.00 | 0.00 | 52.62 | 109.88 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.69 | 106.89 | 2.00 | 0.00 | 1.00 | 0.00 | 52.77 | 104.50 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.87 | 103.83 | 2.00 | 0.00 | 1.00 | 0.00 | 52.91 | 102.56 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.01 | 102.13 | 2.00 | 0.00 | 1.00 | 0.00 | 53.10 | 103.11 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.16 | 113.26 | 2.00 | 0.00 | 1.00 | 0.00 | 53.25 | 123.32 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.29 | 136.25 | 2.00 | 0.00 | 1.00 | 0.00 | 53.38 | 144.18 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.42 | 149.47 | 2.00 | 0.00 | 1.00 | 0.00 | 53.47 | 150.02 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.52 | 148.22 | 2.00 | 0.00 | 1.00 | 0.00 | 53.58 | 152.55 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.66 | 160.18 | 2.00 | 0.00 | 1.00 | 0.00 | 53.75 | 169.41 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.81 | 175.67 | 2.00 | 0.00 | 1.00 | 0.00 | 53.87 | 177.89 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.95 | 178.71 | 2.00 | 0.00 | 1.00 | 0.00 | 54.01 | 177.57 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.06 | 172.90 | 2.00 | 0.00 | 1.00 | 0.00 | 54.15 | 167.57 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.20 | 165.24 | 2.00 | 0.00 | 1.00 | 0.00 | 54.29 | 164.23 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.34 | 141.87 | 2.00 | 0.00 | 1.00 | 0.00 | 54.43 | 108.63 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.45 | 82.07 | 2.00 | 0.00 | 1.00 | 0.00 | 54.48 | 80.59 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.52 | 82.69 | 2.00 | 0.00 | 1.00 | 0.00 | 54.53 | 86.57 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.58 | 89.91 | 0.45 | 2.55 | 1.00 | 0.01 | 54.62 | 93.59 | 0.47 | 2.47 | 1.00 | 0.01 |
| 54.65 | 96.81 | 0.50 | 2.40 | 1.00 | 0.01 | 54.70 | 99.98 | 0.52 | 2.34 | 1.00 | 0.01 |
| 54.76 | 102.23 | 0.54 | 2.29 | 1.00 | 0.02 | 54.77 | 102.77 | 0.55 | 2.28 | 1.00 | 0.00 |
| 54.82 | 103.16 | 0.55 | 2.28 | 1.00 | 0.01 | 54.87 | 103.55 | 0.56 | 2.27 | 1.00 | 0.01 |
| 54.88 | 104.08 | 0.56 | 2.26 | 1.00 | 0.00 | 54.91 | 104.56 | 0.56 | 2.25 | 1.00 | 0.01 |
| 54.96 | 106.09 | 0.58 | 2.23 | 1.00 | 0.01 | 54.97 | 109.90 | 0.62 | 2.16 | 1.00 | 0.00 |
| 55.03 | 115.47 | 0.68 | 2.00 | 1.00 | 0.02 | 55.09 | 120.89 | 0.74 | 1.88 | 1.00 | 0.01 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 55.15 | 121.55 | 0.75 | 1.86 | 1.00 | 0.01 | 55.20 | 122.41 | 0.76 | 1.51 | 1.00 | 0.01 |
| 55.25 | 121.49 | 0.75 | 1.86 | 1.00 | 0.01 | 55.30 | 129.28 | 0.85 | 1.07 | 1.00 | 0.01 |
| 55.34 | 134.62 | 0.93 | 1.01 | 1.00 | 0.01 | 55.39 | 146.03 | 1.12 | 0.43 | 1.00 | 0.00 |
| 55.40 | 153.71 | 1.27 | 0.21 | 1.00 | 0.00 | 55.44 | 157.35 | 1.34 | 0.21 | 1.00 | 0.00 |
| 55.44 | 157.04 | 1.34 | 0.21 | 1.00 | 0.00 | 55.49 | 160.78 | 1.42 | 0.00 | 1.00 | 0.00 |
| 55.54 | 167.71 | 1.58 | 0.00 | 1.00 | 0.00 | 55.59 | 176.17 | 1.79 | 0.00 | 1.00 | 0.00 |
| 55.63 | 180.34 | 1.90 | 0.00 | 1.00 | 0.00 | 55.64 | 180.79 | 1.91 | 0.00 | 1.00 | 0.00 |
| 55.68 | 179.92 | 1.89 | 0.00 | 1.00 | 0.00 | 55.69 | 178.50 | 1.85 | 0.00 | 1.00 | 0.00 |
| 55.69 | 179.38 | 1.88 | 0.00 | 1.00 | 0.00 | 55.71 | 183.08 | 1.98 | 0.00 | 1.00 | 0.00 |
| 55.76 | 186.45 | 2.00 | 0.00 | 1.00 | 0.00 | 55.78 | 187.85 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.81 | 180.96 | 1.92 | 0.00 | 1.00 | 0.00 | 55.85 | 175.16 | 1.77 | 0.00 | 1.00 | 0.00 |
| 55.86 | 176.41 | 1.80 | 0.00 | 1.00 | 0.00 | 55.91 | 179.42 | 1.88 | 0.00 | 1.00 | 0.00 |
| 55.92 | 180.48 | 1.91 | 0.00 | 1.00 | 0.00 | 55.96 | 185.46 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.97 | 189.98 | 2.00 | 0.00 | 1.00 | 0.00 | 56.00 | 196.01 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.01 | 197.72 | 2.00 | 0.00 | 1.00 | 0.00 | 56.03 | 198.18 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.05 | 198.14 | 2.00 | 0.00 | 1.00 | 0.00 | 56.10 | 198.99 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.12 | 199.86 | 2.00 | 0.00 | 1.00 | 0.00 | 56.16 | 199.67 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.17 | 195.76 | 2.00 | 0.00 | 1.00 | 0.00 | 56.20 | 189.78 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.22 | 184.46 | 2.00 | 0.00 | 1.00 | 0.00 | 56.24 | 181.69 | 1.95 | 0.00 | 1.00 | 0.00 |
| 56.30 | 179.84 | 1.89 | 0.00 | 1.00 | 0.00 | 56.31 | 177.72 | 1.84 | 0.00 | 1.00 | 0.00 |
| 56.34 | 174.82 | 1.76 | 0.00 | 1.00 | 0.00 | 56.39 | 172.57 | 1.70 | 0.00 | 1.00 | 0.00 |
| 56.45 | 170.44 | 1.65 | 0.00 | 1.00 | 0.00 | 56.48 | 168.31 | 1.60 | 0.00 | 1.00 | 0.00 |
| 56.49 | 165.32 | 1.53 | 0.00 | 1.00 | 0.00 | 56.53 | 168.57 | 1.60 | 0.00 | 1.00 | 0.00 |
| 56.58 | 169.38 | 1.62 | 0.00 | 1.00 | 0.00 | 56.63 | 155.86 | 1.32 | 0.21 | 1.00 | 0.00 |
| 56.68 | 156.17 | 1.33 | 0.21 | 1.00 | 0.00 | 56.73 | 157.68 | 1.36 | 0.00 | 1.00 | 0.00 |
| 56.78 | 156.09 | 1.33 | 0.21 | 1.00 | 0.00 | 56.83 | 153.53 | 1.27 | 0.21 | 1.00 | 0.00 |
| 56.89 | 157.35 | 1.35 | 0.00 | 1.00 | 0.00 | 56.95 | 160.76 | 1.43 | 0.00 | 1.00 | 0.00 |
| 56.99 | 161.37 | 1.44 | 0.00 | 1.00 | 0.00 | 57.01 | 160.98 | 1.43 | 0.00 | 1.00 | 0.00 |
| 57.04 | 160.65 | 1.43 | 0.00 | 1.00 | 0.00 | 57.09 | 161.13 | 1.44 | 0.00 | 1.00 | 0.00 |
| 57.11 | 163.57 | 1.49 | 0.00 | 1.00 | 0.00 | 57.13 | 167.47 | 1.58 | 0.00 | 1.00 | 0.00 |
| 57.18 | 169.44 | 1.63 | 0.00 | 1.00 | 0.00 | 57.19 | 168.95 | 1.62 | 0.00 | 1.00 | 0.00 |
| 57.21 | 166.30 | 1.56 | 0.00 | 1.00 | 0.00 | 57.24 | 164.00 | 1.50 | 0.00 | 1.00 | 0.00 |
| 57.28 | 163.35 | 1.49 | 0.00 | 1.00 | 0.00 | 57.32 | 161.45 | 1.44 | 0.00 | 1.00 | 0.00 |
| 57.35 | 160.03 | 1.41 | 0.00 | 1.00 | 0.00 | 57.38 | 157.50 | 1.36 | 0.00 | 1.00 | 0.00 |
| 57.43 | 155.53 | 1.32 | 0.21 | 1.00 | 0.00 | 57.48 | 150.26 | 1.21 | 0.31 | 1.00 | 0.00 |
| 57.52 | 143.92 | 1.10 | 0.44 | 1.00 | 0.00 | 57.57 | 142.28 | 1.07 | 0.44 | 1.00 | 0.00 |
| 57.62 | 146.53 | 1.14 | 0.43 | 1.00 | 0.00 | 57.68 | 157.03 | 1.35 | 0.00 | 1.00 | 0.00 |
| 57.76 | 166.00 | 1.55 | 0.00 | 1.00 | 0.00 | 57.81 | 161.17 | 1.44 | 0.00 | 1.00 | 0.00 |
| 57.86 | 159.31 | 1.40 | 0.00 | 1.00 | 0.00 | 57.89 | 167.80 | 1.60 | 0.00 | 1.00 | 0.00 |
| 57.91 | 171.02 | 1.68 | 0.00 | 1.00 | 0.00 | 57.92 | 169.11 | 1.63 | 0.00 | 1.00 | 0.00 |
| 57.95 | 166.67 | 1.57 | 0.00 | 1.00 | 0.00 | 57.99 | 167.08 | 1.58 | 0.00 | 1.00 | 0.00 |
| 58.01 | 169.42 | 1.64 | 0.00 | 1.00 | 0.00 | 58.05 | 173.02 | 1.73 | 0.00 | 1.00 | 0.00 |
| 58.05 | 175.27 | 1.79 | 0.00 | 1.00 | 0.00 | 58.10 | 176.91 | 1.83 | 0.00 | 1.00 | 0.00 |
| 58.13 | 178.73 | 1.88 | 0.00 | 1.00 | 0.00 | 58.15 | 180.87 | 1.94 | 0.00 | 1.00 | 0.00 |
| 58.17 | 182.75 | 1.99 | 0.00 | 1.00 | 0.00 | 58.20 | 182.21 | 1.98 | 0.00 | 1.00 | 0.00 |
| 58.21 | 181.00 | 1.94 | 0.00 | 1.00 | 0.00 | 58.21 | 179.50 | 1.90 | 0.00 | 1.00 | 0.00 |
| 58.23 | 179.34 | 1.90 | 0.00 | 1.00 | 0.00 | 58.24 | 177.62 | 1.85 | 0.00 | 1.00 | 0.00 |
| 58.25 | 177.92 | 1.86 | 0.00 | 1.00 | 0.00 | 58.29 | 179.26 | 1.90 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 58.31 | 183.11 | 2.00 | 0.00 | 1.00 | 0.00 | 58.33 | 186.52 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.38 | 190.06 | 2.00 | 0.00 | 1.00 | 0.00 | 58.39 | 193.13 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.43 | 195.59 | 2.00 | 0.00 | 1.00 | 0.00 | 58.43 | 199.15 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.48 | 200.60 | 2.00 | 0.00 | 1.00 | 0.00 | 58.53 | 202.36 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.56 | 202.90 | 2.00 | 0.00 | 1.00 | 0.00 | 58.58 | 205.20 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.59 | 207.06 | 2.00 | 0.00 | 1.00 | 0.00 | 58.63 | 205.90 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.63 | 206.49 | 2.00 | 0.00 | 1.00 | 0.00 | 58.63 | 202.42 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.68 | 203.74 | 2.00 | 0.00 | 1.00 | 0.00 | 58.69 | 204.22 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.72 | 208.81 | 2.00 | 0.00 | 1.00 | 0.00 | 58.73 | 210.28 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.74 | 211.92 | 2.00 | 0.00 | 1.00 | 0.00 | 58.77 | 211.36 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.81 | 210.02 | 2.00 | 0.00 | 1.00 | 0.00 | 58.82 | 207.44 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.83 | 207.97 | 2.00 | 0.00 | 1.00 | 0.00 | 58.87 | 209.78 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.91 | 212.41 | 2.00 | 0.00 | 1.00 | 0.00 | 58.92 | 214.21 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.93 | 214.95 | 2.00 | 0.00 | 1.00 | 0.00 | 58.96 | 214.44 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.01 | 207.70 | 2.00 | 0.00 | 1.00 | 0.00 | 59.06 | 199.13 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.08 | 189.77 | 2.00 | 0.00 | 1.00 | 0.00 | 59.11 | 184.95 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.15 | 181.46 | 1.96 | 0.00 | 1.00 | 0.00 | 59.21 | 178.75 | 1.89 | 0.00 | 1.00 | 0.00 |
| 59.26 | 178.89 | 1.89 | 0.00 | 1.00 | 0.00 | 59.30 | 173.20 | 1.74 | 0.00 | 1.00 | 0.00 |
| 59.35 | 169.07 | 1.64 | 0.00 | 1.00 | 0.00 | 59.40 | 168.73 | 1.63 | 0.00 | 1.00 | 0.00 |
| 59.42 | 168.34 | 1.62 | 0.00 | 1.00 | 0.00 | 59.47 | 167.78 | 1.61 | 0.00 | 1.00 | 0.00 |
| 59.51 | 168.63 | 1.63 | 0.00 | 1.00 | 0.00 | 59.56 | 168.59 | 1.63 | 0.00 | 1.00 | 0.00 |
| 59.61 | 164.50 | 1.53 | 0.00 | 1.00 | 0.00 | 59.67 | 155.77 | 1.34 | 0.21 | 1.00 | 0.00 |
| 59.71 | 159.11 | 1.41 | 0.00 | 1.00 | 0.00 | 59.80 | 159.56 | 1.42 | 0.00 | 1.00 | 0.00 |
| 59.85 | 158.50 | 1.40 | 0.00 | 1.00 | 0.00 | 59.90 | 155.47 | 1.33 | 0.21 | 1.00 | 0.00 |
| 60.00 | 155.53 | 1.33 | 0.21 | 1.00 | 0.00 | 60.04 | 155.09 | 1.33 | 0.21 | 1.00 | 0.00 |
| 60.10 | 150.62 | 1.23 | 0.30 | 1.00 | 0.00 | 60.15 | 145.30 | 1.13 | 0.43 | 1.00 | 0.00 |
| 60.19 | 139.22 | 1.03 | 0.65 | 1.00 | 0.00 | 60.23 | 138.03 | 1.01 | 0.65 | 1.00 | 0.00 |
| 60.28 | 137.71 | 1.00 | 0.66 | 1.00 | 0.00 | 60.33 | 139.47 | 1.03 | 0.65 | 1.00 | 0.00 |
| 60.38 | 140.26 | 1.05 | 0.64 | 1.00 | 0.00 | 60.42 | 140.74 | 1.05 | 0.44 | 1.00 | 0.00 |
| 60.44 | 140.24 | 1.05 | 0.65 | 1.00 | 0.00 | 60.47 | 145.72 | 1.14 | 0.43 | 1.00 | 0.00 |
| 60.52 | 148.94 | 1.20 | 0.31 | 1.00 | 0.00 | 60.56 | 150.90 | 1.24 | 0.30 | 1.00 | 0.00 |
| 60.57 | 151.48 | 1.25 | 0.22 | 1.00 | 0.00 | 60.61 | 151.48 | 1.25 | 0.22 | 1.00 | 0.00 |
| 60.66 | 151.98 | 1.27 | 0.21 | 1.00 | 0.00 | 60.71 | 153.21 | 1.29 | 0.21 | 1.00 | 0.00 |
| 60.76 | 156.59 | 1.36 | 0.00 | 1.00 | 0.00 | 60.81 | 159.58 | 1.43 | 0.00 | 1.00 | 0.00 |
| 60.86 | 161.02 | 1.46 | 0.00 | 1.00 | 0.00 | 60.91 | 158.84 | 1.41 | 0.00 | 1.00 | 0.00 |
| 60.95 | 170.69 | 1.69 | 0.00 | 1.00 | 0.00 | 61.00 | 180.91 | 1.97 | 0.00 | 1.00 | 0.00 |
| 61.02 | 186.60 | 2.00 | 0.00 | 1.00 | 0.00 | 61.05 | 194.34 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.08 | 201.44 | 2.00 | 0.00 | 1.00 | 0.00 | 61.09 | 207.57 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.13 | 209.24 | 2.00 | 0.00 | 1.00 | 0.00 | 61.14 | 209.63 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.16 | 210.15 | 2.00 | 0.00 | 1.00 | 0.00 | 61.20 | 212.77 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.23 | 215.88 | 2.00 | 0.00 | 1.00 | 0.00 | 61.24 | 217.23 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.29 | 214.83 | 2.00 | 0.00 | 1.00 | 0.00 | 61.30 | 210.65 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.33 | 207.82 | 2.00 | 0.00 | 1.00 | 0.00 | 61.38 | 206.66 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.43 | 206.60 | 2.00 | 0.00 | 1.00 | 0.00 | 61.48 | 208.54 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.53 | 212.02 | 2.00 | 0.00 | 1.00 | 0.00 | 61.56 | 213.05 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.58 | 205.10 | 2.00 | 0.00 | 1.00 | 0.00 | 61.59 | 198.13 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.62 | 169.24 | 1.66 | 0.00 | 1.00 | 0.00 | 61.63 | 167.67 | 1.62 | 0.00 | 1.00 | 0.00 |
| 61.67 | 165.65 | 1.57 | 0.00 | 1.00 | 0.00 | 61.71 | 186.61 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 61.76 | 184.50 | 2.00 | 0.00 | 1.00 | 0.00 | 61.81 | 178.32 | 1.90 | 0.00 | 1.00 | 0.00 |
| 61.86 | 172.85 | 1.75 | 0.00 | 1.00 | 0.00 | 61.87 | 168.83 | 1.65 | 0.00 | 1.00 | 0.00 |
| 61.91 | 165.39 | 1.57 | 0.00 | 1.00 | 0.00 | 61.95 | 162.25 | 1.49 | 0.00 | 1.00 | 0.00 |
| 61.96 | 159.04 | 1.42 | 0.00 | 1.00 | 0.00 | 62.00 | 155.30 | 1.34 | 0.21 | 1.00 | 0.00 |
| 62.04 | 150.01 | 1.23 | 0.31 | 1.00 | 0.00 | 62.06 | 143.15 | 1.11 | 0.44 | 1.00 | 0.00 |
| 62.10 | 137.65 | 1.01 | 0.66 | 1.00 | 0.00 | 62.14 | 133.04 | 0.94 | 1.03 | 1.00 | 0.01 |
| 62.20 | 129.46 | 0.88 | 1.07 | 1.00 | 0.01 | 62.22 | 122.70 | 0.79 | 1.51 | 1.00 | 0.00 |
| 62.27 | 125.13 | 0.82 | 1.46 | 1.00 | 0.01 | 62.29 | 125.44 | 0.83 | 1.46 | 1.00 | 0.00 |
| 62.34 | 124.22 | 0.81 | 1.48 | 1.00 | 0.01 | 62.39 | 123.46 | 0.80 | 1.49 | 1.00 | 0.01 |
| 62.43 | 121.51 | 0.77 | 1.53 | 1.00 | 0.01 | 62.49 | 121.38 | 0.77 | 1.53 | 1.00 | 0.01 |
| 62.57 | 121.70 | 0.78 | 1.53 | 1.00 | 0.02 | 62.68 | 127.79 | 0.86 | 1.09 | 1.00 | 0.01 |
| 62.75 | 139.12 | 1.04 | 0.65 | 1.00 | 0.01 | 62.87 | 146.86 | 1.18 | 0.31 | 1.00 | 0.00 |
| 62.88 | 142.25 | 1.09 | 0.44 | 1.00 | 0.00 | 62.89 | 142.29 | 1.09 | 0.44 | 1.00 | 0.00 |
| 62.93 | 142.80 | 1.10 | 0.44 | 1.00 | 0.00 | 62.98 | 158.87 | 1.42 | 0.00 | 1.00 | 0.00 |
| 63.02 | 172.30 | 1.75 | 0.00 | 1.00 | 0.00 | 63.07 | 182.93 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.12 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 63.14 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.17 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 63.17 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.20 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 63.21 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.23 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 63.26 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.28 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 63.31 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.32 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 63.36 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.40 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | | | | | | |

**Total estimated settlement: 2.49**

**Abbreviations**

| | |
|---|---|
| $Q_{tn,cs}$: | Equivalent clean sand normalized cone resistance |
| FS: | Factor of safety against liquefaction |
| $e_v$ (%): | Post-liquefaction volumentric strain |
| DF: | $e_v$ depth weighting factor |
| Settlement: | Calculated settlement |

**:: Strength loss calculation (Robertson (2009) ::**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 0.01 | 0.00 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.04 | 0.00 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.09 | 0.00 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.11 | 0.00 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.14 | 0.00 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.14 | 1.35 | 2.15 | 27.82 | 59.81 | 3.66 | 7.03 | 11.25 |
| 0.18 | 6.97 | 11.19 | 4.58 | 51.24 | 2.69 | 0.06 | 0.63 |
| 0.23 | 18.19 | 29.21 | 1.00 | 29.21 | 2.14 | 0.02 | 0.62 |
| 0.24 | 36.79 | 59.09 | 1.00 | 59.09 | 1.76 | 0.11 | 0.65 |
| 0.28 | 53.07 | 85.23 | 1.00 | 85.23 | 1.58 | 0.72 | 0.72 |
| 0.33 | 59.27 | 95.19 | 1.00 | 95.19 | 1.53 | 0.74 | 0.74 |
| 0.38 | 56.61 | 90.91 | 1.00 | 90.91 | 1.60 | 0.73 | 0.73 |
| 0.42 | 52.11 | 83.69 | 1.00 | 83.69 | 1.72 | 0.72 | 0.72 |
| 0.47 | 51.84 | 83.25 | 1.19 | 98.77 | 1.83 | 0.75 | 0.75 |
| 0.51 | 51.94 | 83.40 | 1.24 | 103.16 | 1.90 | 0.75 | 0.75 |
| 0.52 | 52.09 | 83.64 | 1.26 | 104.99 | 1.93 | 0.76 | 0.76 |
| 0.57 | 52.66 | 84.56 | 1.24 | 105.20 | 1.91 | 0.76 | 0.76 |
| 0.61 | 53.24 | 85.48 | 1.23 | 105.23 | 1.89 | 0.76 | 0.76 |
| 0.67 | 53.47 | 85.85 | 1.22 | 105.00 | 1.88 | 0.76 | 0.76 |
| 0.73 | 53.84 | 86.44 | 1.22 | 105.23 | 1.87 | 0.76 | 0.76 |
| 0.81 | 53.62 | 86.08 | 1.22 | 104.72 | 1.87 | 0.76 | 0.76 |
| 0.86 | 53.52 | 85.91 | 1.25 | 107.16 | 1.92 | 0.76 | 0.76 |
| 0.98 | 52.14 | 83.69 | 1.28 | 106.78 | 1.96 | 0.76 | 0.76 |
| 1.05 | 48.22 | 77.37 | 1.32 | 102.42 | 2.02 | 0.75 | 0.75 |
| 1.15 | 43.67 | 70.05 | 1.34 | 94.07 | 2.04 | 0.74 | 0.74 |
| 1.24 | 37.87 | 60.73 | 1.38 | 83.84 | 2.07 | 0.72 | 0.72 |
| 1.34 | 34.47 | 55.26 | 1.40 | 77.37 | 2.09 | 0.47 | 0.70 |
| 1.43 | 30.63 | 49.08 | 1.51 | 74.33 | 2.16 | 0.36 | 0.69 |
| 1.53 | 26.86 | 43.01 | 1.75 | 75.37 | 2.25 | 0.40 | 0.70 |
| 1.58 | 24.56 | 39.32 | 1.98 | 77.68 | 2.31 | 0.48 | 0.70 |
| 1.62 | 23.48 | 37.59 | 2.00 | 75.15 | 2.32 | 0.39 | 0.70 |
| 1.67 | 24.36 | 38.99 | 1.85 | 72.19 | 2.28 | 0.31 | 0.69 |
| 1.75 | 23.89 | 38.23 | 1.86 | 70.99 | 2.28 | 0.28 | 0.69 |
| 1.77 | 23.08 | 36.93 | 1.92 | 70.79 | 2.30 | 0.27 | 0.69 |
| 1.81 | 21.50 | 34.38 | 2.08 | 71.55 | 2.34 | 0.29 | 0.69 |
| 1.86 | 19.71 | 31.51 | 2.30 | 72.37 | 2.39 | 0.31 | 0.69 |
| 1.91 | 17.96 | 28.69 | 2.52 | 72.24 | 2.43 | 0.31 | 0.69 |
| 1.95 | 16.98 | 27.11 | 2.53 | 68.54 | 2.43 | 0.23 | 0.68 |
| 2.00 | 16.21 | 25.86 | 2.43 | 62.85 | 2.41 | 0.14 | 0.66 |
| 2.05 | 14.89 | 23.75 | 2.42 | 57.52 | 2.41 | 0.09 | 0.65 |
| 2.11 | 13.51 | 21.52 | 2.55 | 54.95 | 2.43 | 0.08 | 0.64 |
| 2.20 | 12.33 | 19.62 | 2.79 | 54.76 | 2.47 | 0.08 | 0.64 |
| 2.24 | 11.73 | 18.64 | 3.01 | 56.15 | 2.50 | 0.08 | 0.65 |
| 2.29 | 11.26 | 17.88 | 3.29 | 58.85 | 2.54 | 0.10 | 0.65 |
| 2.34 | 11.32 | 17.99 | 3.76 | 67.59 | 2.60 | 0.21 | 0.68 |
| 2.44 | 12.17 | 19.33 | 3.86 | 74.63 | 2.61 | 0.37 | 0.69 |
| 2.48 | 14.56 | 23.17 | 3.43 | 79.44 | 2.56 | 0.56 | 0.71 |
| 2.58 | 18.03 | 28.74 | 2.75 | 79.05 | 2.47 | 0.54 | 0.70 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 2.63 | 22.41 | 35.77 | 2.21 | 79.01 | 2.37 | 0.54 | 0.70 |
| 2.71 | 26.08 | 41.66 | 1.92 | 80.03 | 2.30 | 0.59 | 0.71 |
| 2.78 | 30.33 | 48.48 | 1.67 | 80.89 | 2.22 | 0.63 | 0.71 |
| 2.82 | 33.73 | 53.95 | 1.52 | 82.21 | 2.16 | 0.70 | 0.71 |
| 2.89 | 34.94 | 55.89 | 1.47 | 82.24 | 2.13 | 0.70 | 0.71 |
| 2.96 | 33.63 | 53.77 | 1.51 | 81.39 | 2.16 | 0.66 | 0.71 |
| 3.03 | 30.90 | 49.37 | 1.62 | 80.00 | 2.20 | 0.58 | 0.71 |
| 3.11 | 28.98 | 46.28 | 1.70 | 78.46 | 2.23 | 0.51 | 0.70 |
| 3.19 | 26.45 | 42.22 | 1.79 | 75.65 | 2.26 | 0.41 | 0.70 |
| 3.25 | 23.52 | 37.50 | 1.97 | 73.87 | 2.31 | 0.35 | 0.69 |
| 3.35 | 20.49 | 32.62 | 2.28 | 74.42 | 2.38 | 0.37 | 0.69 |
| 3.41 | 17.79 | 28.29 | 2.60 | 73.49 | 2.44 | 0.34 | 0.69 |
| 3.50 | 15.91 | 25.25 | 2.74 | 69.10 | 2.46 | 0.24 | 0.68 |
| 3.59 | 14.83 | 23.51 | 2.66 | 62.63 | 2.45 | 0.14 | 0.66 |
| 3.69 | 14.59 | 23.12 | 2.55 | 58.90 | 2.43 | 0.10 | 0.65 |
| 3.79 | 15.20 | 24.09 | 2.35 | 56.48 | 2.39 | 0.09 | 0.65 |
| 3.88 | 16.54 | 26.24 | 2.09 | 54.78 | 2.34 | 0.08 | 0.64 |
| 3.97 | 19.14 | 30.40 | 1.82 | 55.25 | 2.27 | 0.08 | 0.64 |
| 4.07 | 20.82 | 33.10 | 1.77 | 58.69 | 2.26 | 0.10 | 0.65 |
| 4.14 | 23.49 | 37.37 | 1.67 | 62.38 | 2.22 | 0.14 | 0.66 |
| 4.17 | 25.51 | 40.62 | 1.61 | 65.25 | 2.20 | 0.17 | 0.67 |
| 4.26 | 28.14 | 44.83 | 1.51 | 67.83 | 2.15 | 0.21 | 0.68 |
| 4.32 | 28.71 | 45.74 | 1.52 | 69.43 | 2.16 | 0.24 | 0.68 |
| 4.37 | 28.10 | 44.77 | 1.56 | 69.94 | 2.18 | 0.25 | 0.68 |
| 4.42 | 26.62 | 42.38 | 1.65 | 69.93 | 2.21 | 0.25 | 0.68 |
| 4.51 | 25.07 | 39.88 | 1.74 | 69.30 | 2.24 | 0.24 | 0.68 |
| 4.61 | 23.68 | 37.65 | 1.82 | 68.42 | 2.27 | 0.22 | 0.68 |
| 4.65 | 22.37 | 35.53 | 1.90 | 67.38 | 2.29 | 0.21 | 0.68 |
| 4.74 | 21.09 | 33.47 | 2.00 | 67.06 | 2.32 | 0.20 | 0.68 |
| 4.80 | 20.48 | 32.49 | 2.05 | 66.55 | 2.33 | 0.19 | 0.67 |
| 4.89 | 20.04 | 31.78 | 2.09 | 66.46 | 2.34 | 0.19 | 0.67 |
| 4.95 | 20.38 | 32.32 | 2.05 | 66.20 | 2.33 | 0.19 | 0.67 |
| 5.04 | 21.05 | 33.39 | 1.97 | 65.92 | 2.31 | 0.18 | 0.67 |
| 5.13 | 22.81 | 36.20 | 1.80 | 65.26 | 2.27 | 0.17 | 0.67 |
| 5.18 | 25.27 | 40.14 | 1.63 | 65.28 | 2.20 | 0.17 | 0.67 |
| 5.28 | 28.07 | 44.63 | 1.49 | 66.64 | 2.14 | 0.19 | 0.67 |
| 5.32 | 31.47 | 50.09 | 1.40 | 70.04 | 2.09 | 0.26 | 0.68 |
| 5.42 | 34.67 | 55.23 | 1.35 | 74.62 | 2.05 | 0.37 | 0.69 |
| 5.51 | 38.14 | 60.80 | 1.31 | 79.86 | 2.01 | 0.58 | 0.71 |
| 5.60 | 41.28 | 65.83 | 1.26 | 83.18 | 1.94 | 0.71 | 0.71 |
| 5.66 | 44.24 | 70.58 | 1.22 | 86.14 | 1.88 | 0.72 | 0.72 |
| 5.76 | 45.86 | 73.17 | 1.00 | 73.17 | 1.83 | 0.33 | 0.69 |
| 5.85 | 44.91 | 71.65 | 1.21 | 86.53 | 1.86 | 0.72 | 0.72 |
| 5.92 | 41.11 | 65.53 | 1.25 | 81.79 | 1.92 | 0.68 | 0.71 |
| 5.95 | 38.21 | 60.87 | 1.28 | 77.76 | 1.96 | 0.48 | 0.70 |
| 5.97 | 36.15 | 57.56 | 1.30 | 74.97 | 1.99 | 0.38 | 0.70 |
| 6.02 | 35.37 | 56.31 | 1.31 | 73.90 | 2.01 | 0.35 | 0.69 |
| 6.06 | 32.74 | 52.08 | 1.36 | 70.59 | 2.05 | 0.27 | 0.68 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 6.16 | 29.98 | 47.63 | 1.42 | 67.87 | 2.10 | 0.21 | 0.68 |
| 6.21 | 26.98 | 42.82 | 1.56 | 66.83 | 2.18 | 0.20 | 0.68 |
| 6.26 | 24.29 | 38.48 | 1.79 | 68.74 | 2.26 | 0.23 | 0.68 |
| 6.31 | 21.62 | 34.19 | 2.18 | 74.63 | 2.36 | 0.37 | 0.69 |
| 6.40 | 19.23 | 30.34 | 2.70 | 82.06 | 2.46 | 0.69 | 0.71 |
| 6.44 | 16.91 | 26.60 | 3.43 | 91.18 | 2.56 | 0.73 | 0.73 |
| 6.52 | 15.12 | 23.73 | 4.16 | 98.65 | 2.64 | 0.75 | 0.75 |
| 6.57 | 13.47 | 21.08 | 5.01 | 105.63 | 2.73 | 0.76 | 0.76 |
| 6.64 | 12.16 | 18.96 | 5.81 | 110.19 | 2.80 | 0.77 | 0.77 |
| 6.69 | 10.98 | 17.06 | 6.65 | 113.46 | 2.86 | 0.77 | 0.77 |
| 6.78 | 10.34 | 16.02 | 7.15 | 114.49 | 2.90 | 0.77 | 0.77 |
| 6.83 | 9.90 | 15.31 | 7.38 | 112.96 | 2.91 | 0.77 | 0.77 |
| 6.92 | 9.60 | 14.82 | 7.45 | 110.37 | 2.92 | 0.77 | 0.77 |
| 6.97 | 9.39 | 14.48 | 7.39 | 107.07 | 2.91 | 0.76 | 0.76 |
| 7.03 | 9.29 | 14.32 | 7.35 | 105.27 | 2.91 | 0.76 | 0.76 |
| 7.12 | 9.32 | 14.36 | 7.25 | 104.07 | 2.90 | 0.76 | 0.76 |
| 7.22 | 9.39 | 14.46 | 7.17 | 103.64 | 2.90 | 0.75 | 0.75 |
| 7.27 | 9.52 | 14.66 | 7.09 | 103.89 | 2.89 | 0.76 | 0.76 |
| 7.36 | 9.65 | 14.86 | 7.06 | 104.93 | 2.89 | 0.76 | 0.76 |
| 7.43 | 9.75 | 15.01 | 7.08 | 106.34 | 2.89 | 0.76 | 0.76 |
| 7.50 | 9.78 | 15.06 | 7.16 | 107.82 | 2.90 | 0.76 | 0.76 |
| 7.59 | 9.77 | 15.04 | 7.22 | 108.69 | 2.90 | 0.76 | 0.76 |
| 7.64 | 9.70 | 14.93 | 7.34 | 109.64 | 2.91 | 0.77 | 0.77 |
| 7.75 | 9.63 | 14.81 | 7.46 | 110.40 | 2.92 | 0.77 | 0.77 |
| 7.79 | 9.70 | 14.91 | 7.43 | 110.74 | 2.92 | 0.77 | 0.77 |
| 7.89 | 9.97 | 15.33 | 7.19 | 110.22 | 2.90 | 0.77 | 0.77 |
| 7.99 | 10.24 | 15.76 | 6.97 | 109.89 | 2.88 | 0.77 | 0.77 |
| 8.04 | 10.34 | 15.91 | 6.96 | 110.71 | 2.88 | 0.77 | 0.77 |
| 8.13 | 10.31 | 15.85 | 7.03 | 111.39 | 2.89 | 0.77 | 0.77 |
| 8.23 | 10.27 | 15.79 | 6.35 | 100.23 | 2.84 | 0.75 | 0.75 |
| 8.32 | 10.27 | 15.77 | 5.78 | 91.18 | 2.79 | 0.73 | 0.73 |
| 8.37 | 10.53 | 16.20 | 5.34 | 86.47 | 2.76 | 0.72 | 0.72 |
| 8.46 | 11.04 | 17.00 | 5.74 | 97.61 | 2.79 | 0.74 | 0.74 |
| 8.56 | 11.30 | 17.42 | 6.05 | 105.35 | 2.82 | 0.76 | 0.76 |
| 8.59 | 11.30 | 17.41 | 6.35 | 110.51 | 2.84 | 0.77 | 0.77 |
| 8.61 | 11.03 | 16.97 | 6.71 | 113.97 | 2.87 | 0.77 | 0.77 |
| 8.67 | 10.89 | 16.75 | 6.98 | 116.82 | 2.88 | 0.78 | 0.78 |
| 8.71 | 10.69 | 16.41 | 7.24 | 118.78 | 2.90 | 0.78 | 0.78 |
| 8.72 | 10.51 | 16.13 | 7.46 | 120.30 | 2.92 | 0.78 | 0.78 |
| 8.78 | 10.44 | 16.02 | 7.56 | 121.13 | 2.92 | 0.78 | 0.78 |
| 8.80 | 10.44 | 16.02 | 7.59 | 121.54 | 2.93 | 0.79 | 0.79 |
| 8.86 | 10.44 | 16.01 | 7.60 | 121.62 | 2.93 | 0.79 | 0.79 |
| 8.90 | 10.55 | 16.17 | 7.55 | 122.08 | 2.92 | 0.79 | 0.79 |
| 8.95 | 10.68 | 16.39 | 7.49 | 122.77 | 2.92 | 0.79 | 0.79 |
| 8.96 | 10.89 | 16.71 | 7.39 | 123.54 | 2.91 | 0.79 | 0.79 |
| 9.00 | 11.05 | 16.98 | 7.33 | 124.43 | 2.91 | 0.79 | 0.79 |
| 9.05 | 11.29 | 17.35 | 7.24 | 125.55 | 2.90 | 0.79 | 0.79 |
| 9.09 | 11.56 | 17.78 | 7.10 | 126.26 | 2.89 | 0.79 | 0.79 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 9.10 | 11.96 | 18.43 | 6.89 | 127.03 | 2.88 | 0.79 | 0.79 |
| 9.14 | 12.47 | 19.24 | 6.66 | 128.15 | 2.86 | 0.80 | 0.80 |
| 9.20 | 13.21 | 20.42 | 6.33 | 129.23 | 2.84 | 0.80 | 0.80 |
| 9.24 | 14.09 | 21.83 | 5.95 | 129.98 | 2.81 | 0.80 | 0.80 |
| 9.29 | 15.03 | 23.34 | 5.57 | 129.97 | 2.78 | 0.80 | 0.80 |
| 9.31 | 15.90 | 24.74 | 5.28 | 130.54 | 2.75 | 0.80 | 0.80 |
| 9.38 | 16.61 | 25.88 | 5.06 | 130.87 | 2.73 | 0.80 | 0.80 |
| 9.41 | 17.32 | 27.00 | 4.80 | 129.53 | 2.71 | 0.80 | 0.80 |
| 9.47 | 18.02 | 28.13 | 4.48 | 126.15 | 2.68 | 0.79 | 0.79 |
| 9.53 | 19.33 | 30.23 | 3.91 | 118.10 | 2.62 | 0.78 | 0.78 |
| 9.62 | 21.08 | 33.03 | 3.29 | 108.83 | 2.54 | 0.76 | 0.76 |
| 9.67 | 23.71 | 36.88 | 2.63 | 97.08 | 2.45 | 0.74 | 0.74 |
| 9.77 | 26.25 | 39.96 | 2.22 | 88.55 | 2.37 | 0.73 | 0.73 |
| 9.81 | 28.83 | 43.12 | 1.89 | 81.52 | 2.29 | 0.66 | 0.71 |
| 9.90 | 30.67 | 45.16 | 1.72 | 77.57 | 2.24 | 0.48 | 0.70 |
| 9.97 | 32.26 | 46.92 | 1.61 | 75.55 | 2.20 | 0.40 | 0.70 |
| 10.06 | 32.63 | 47.13 | 1.61 | 75.67 | 2.20 | 0.41 | 0.70 |
| 10.20 | 32.13 | 46.19 | 1.68 | 77.59 | 2.22 | 0.48 | 0.70 |
| 10.30 | 29.29 | 42.06 | 1.79 | 75.15 | 2.26 | 0.39 | 0.70 |
| 10.44 | 25.52 | 36.67 | 2.06 | 75.52 | 2.33 | 0.40 | 0.70 |
| 10.54 | 20.70 | 30.03 | 2.66 | 79.87 | 2.45 | 0.58 | 0.71 |
| 10.63 | 16.56 | 24.49 | 4.08 | 99.92 | 2.64 | 0.75 | 0.75 |
| 10.74 | 13.83 | 20.66 | 5.64 | 116.62 | 2.78 | 0.78 | 0.78 |
| 10.78 | 12.62 | 18.99 | 6.71 | 127.39 | 2.86 | 0.79 | 0.79 |
| 10.83 | 12.48 | 18.76 | 6.96 | 130.59 | 2.88 | 0.80 | 0.80 |
| 10.88 | 12.31 | 18.47 | 7.21 | 133.16 | 2.90 | 0.80 | 0.80 |
| 10.89 | 12.15 | 18.24 | 7.50 | 136.86 | 2.92 | 0.81 | 0.81 |
| 10.97 | 12.25 | 18.30 | 7.62 | 139.36 | 2.93 | 0.81 | 0.81 |
| 11.02 | 12.48 | 18.59 | 7.62 | 141.70 | 2.93 | 0.82 | 0.82 |
| 11.07 | 12.79 | 18.96 | 7.51 | 142.37 | 2.92 | 0.82 | 0.82 |
| 11.11 | 13.06 | 19.28 | 7.42 | 143.00 | 2.91 | 0.82 | 0.82 |
| 11.16 | 13.39 | 19.70 | 7.30 | 143.71 | 2.91 | 0.82 | 0.82 |
| 11.21 | 13.76 | 20.15 | 7.19 | 144.81 | 2.90 | 0.82 | 0.82 |
| 11.26 | 14.14 | 20.62 | 7.10 | 146.37 | 2.89 | 0.82 | 0.82 |
| 11.30 | 14.37 | 20.90 | 7.10 | 148.42 | 2.89 | 0.82 | 0.82 |
| 11.36 | 14.54 | 21.07 | 7.14 | 150.43 | 2.90 | 0.83 | 0.83 |
| 11.40 | 14.68 | 21.19 | 7.17 | 151.92 | 2.90 | 0.83 | 0.83 |
| 11.45 | 14.81 | 21.32 | 7.18 | 152.97 | 2.90 | 0.83 | 0.83 |
| 11.50 | 15.04 | 21.57 | 7.12 | 153.64 | 2.89 | 0.83 | 0.83 |
| 11.55 | 15.31 | 21.86 | 7.06 | 154.44 | 2.89 | 0.83 | 0.83 |
| 11.60 | 15.85 | 22.53 | 6.88 | 155.07 | 2.88 | 0.83 | 0.83 |
| 11.66 | 16.56 | 23.39 | 6.63 | 155.14 | 2.86 | 0.83 | 0.83 |
| 11.74 | 17.40 | 24.38 | 6.31 | 153.92 | 2.84 | 0.83 | 0.83 |
| 11.84 | 17.98 | 24.97 | 6.15 | 153.46 | 2.82 | 0.83 | 0.83 |
| 11.93 | 18.18 | 25.08 | 6.17 | 154.65 | 2.82 | 0.83 | 0.83 |
| 12.04 | 18.04 | 24.73 | 6.38 | 157.76 | 2.84 | 0.84 | 0.84 |
| 12.13 | 17.87 | 24.37 | 6.58 | 160.42 | 2.86 | 0.84 | 0.84 |
| 12.22 | 17.67 | 23.94 | 6.76 | 161.87 | 2.87 | 0.84 | 0.84 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 12.27 | 17.51 | 23.64 | 6.85 | 161.93 | 2.88 | 0.84 | 0.84 |
| 12.37 | 17.27 | 23.16 | 6.98 | 161.58 | 2.88 | 0.84 | 0.84 |
| 12.41 | 17.17 | 22.94 | 7.03 | 161.26 | 2.89 | 0.84 | 0.84 |
| 12.51 | 17.06 | 22.65 | 7.13 | 161.48 | 2.89 | 0.84 | 0.84 |
| 12.56 | 17.23 | 22.78 | 7.08 | 161.37 | 2.89 | 0.84 | 0.84 |
| 12.65 | 17.64 | 23.15 | 6.96 | 161.03 | 2.88 | 0.84 | 0.84 |
| 12.71 | 18.45 | 24.09 | 6.70 | 161.44 | 2.86 | 0.84 | 0.84 |
| 12.79 | 19.23 | 24.96 | 6.59 | 164.56 | 2.86 | 0.85 | 0.85 |
| 12.89 | 20.10 | 25.92 | 6.50 | 168.54 | 2.85 | 0.85 | 0.85 |
| 12.96 | 20.98 | 26.96 | 6.43 | 173.33 | 2.84 | 0.86 | 0.86 |
| 13.04 | 22.23 | 28.37 | 6.15 | 174.57 | 2.82 | 0.86 | 0.86 |
| 13.13 | 24.11 | 30.49 | 5.62 | 171.40 | 2.78 | 0.85 | 0.85 |
| 13.23 | 26.80 | 33.27 | 4.19 | 139.58 | 2.65 | 0.81 | 0.81 |
| 13.30 | 30.34 | 36.95 | 2.91 | 107.47 | 2.49 | 0.76 | 0.76 |
| 13.37 | 34.15 | 40.77 | 2.02 | 82.17 | 2.32 | 0.70 | 0.71 |
| 13.47 | 38.32 | 45.44 | 1.87 | 85.15 | 2.29 | 0.72 | 0.72 |
| 13.57 | 38.79 | 45.84 | 1.94 | 89.15 | 2.31 | 0.73 | 0.73 |
| 13.61 | 39.19 | 46.27 | 1.98 | 91.39 | 2.31 | 0.73 | 0.73 |
| 13.62 | 40.31 | 47.52 | 1.94 | 92.31 | 2.30 | 0.73 | 0.73 |
| 13.68 | 44.31 | 51.92 | 1.78 | 92.36 | 2.26 | 0.73 | 0.73 |
| 13.73 | 47.82 | 55.76 | 1.68 | 93.57 | 2.22 | 0.74 | 0.74 |
| 13.77 | 50.08 | 58.23 | 1.65 | 95.79 | 2.21 | 0.74 | 0.74 |
| 13.87 | 52.91 | 61.16 | 1.61 | 98.26 | 2.20 | 0.74 | 0.74 |
| 13.93 | 55.78 | 64.26 | 1.58 | 101.41 | 2.19 | 0.75 | 0.75 |
| 14.00 | 58.54 | 67.15 | 1.55 | 104.21 | 2.17 | 0.76 | 0.76 |
| 14.06 | 60.62 | 69.33 | 1.54 | 106.89 | 2.17 | 0.76 | 0.76 |
| 14.12 | 62.21 | 70.95 | 1.54 | 109.37 | 2.17 | 0.77 | 0.77 |
| 14.21 | 63.05 | 71.63 | 1.55 | 111.13 | 2.17 | 0.77 | 0.77 |
| 14.25 | 63.45 | 71.96 | 1.56 | 112.44 | 2.18 | 0.77 | 0.77 |
| 14.35 | 63.35 | 71.51 | 1.58 | 112.67 | 2.18 | 0.77 | 0.77 |
| 14.45 | 62.61 | 70.37 | 1.60 | 112.38 | 2.19 | 0.77 | 0.77 |
| 14.50 | 61.06 | 68.50 | 1.63 | 111.75 | 2.21 | 0.77 | 0.77 |
| 14.59 | 59.18 | 66.15 | 1.68 | 111.04 | 2.22 | 0.77 | 0.77 |
| 14.64 | 57.19 | 63.82 | 1.73 | 110.49 | 2.24 | 0.77 | 0.77 |
| 14.74 | 55.60 | 61.79 | 1.78 | 110.08 | 2.26 | 0.77 | 0.77 |
| 14.80 | 54.22 | 60.12 | 1.83 | 109.86 | 2.27 | 0.77 | 0.77 |
| 14.88 | 53.18 | 58.73 | 1.87 | 109.70 | 2.28 | 0.77 | 0.77 |
| 14.97 | 52.24 | 57.45 | 1.91 | 109.62 | 2.30 | 0.77 | 0.77 |
| 15.05 | 51.43 | 56.38 | 1.95 | 110.04 | 2.31 | 0.77 | 0.77 |
| 15.13 | 50.85 | 55.53 | 1.99 | 110.56 | 2.32 | 0.77 | 0.77 |
| 15.21 | 50.95 | 55.42 | 1.99 | 110.46 | 2.32 | 0.77 | 0.77 |
| 15.28 | 52.23 | 56.58 | 1.93 | 109.48 | 2.30 | 0.77 | 0.77 |
| 15.36 | 55.10 | 59.37 | 1.82 | 108.07 | 2.27 | 0.76 | 0.76 |
| 15.41 | 60.22 | 64.61 | 1.66 | 107.30 | 2.22 | 0.76 | 0.76 |
| 15.50 | 66.38 | 70.74 | 1.53 | 108.00 | 2.16 | 0.76 | 0.76 |
| 15.55 | 72.78 | 77.07 | 1.38 | 106.45 | 2.07 | 0.76 | 0.76 |
| 15.65 | 76.92 | 80.83 | 1.31 | 105.71 | 2.00 | 0.76 | 0.76 |
| 15.71 | 78.17 | 81.68 | 1.27 | 103.43 | 1.94 | 0.75 | 0.75 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 15.79 | 75.07 | 78.22 | 1.28 | 99.99 | 1.96 | 0.75 | 0.75 |
| 15.89 | 67.29 | 69.97 | 1.33 | 92.88 | 2.02 | 0.73 | 0.73 |
| 15.90 | 61.09 | 63.58 | 1.38 | 88.03 | 2.07 | 0.72 | 0.72 |
| 15.94 | 56.21 | 58.47 | 1.45 | 84.99 | 2.12 | 0.72 | 0.72 |
| 16.00 | 53.24 | 55.28 | 1.51 | 83.45 | 2.15 | 0.71 | 0.71 |
| 16.06 | 47.68 | 49.45 | 1.67 | 82.65 | 2.22 | 0.71 | 0.71 |
| 16.14 | 40.74 | 42.17 | 2.02 | 85.02 | 2.32 | 0.72 | 0.72 |
| 16.19 | 34.10 | 35.24 | 2.56 | 90.26 | 2.43 | 0.73 | 0.73 |
| 16.26 | 27.10 | 27.88 | 3.51 | 97.89 | 2.57 | 0.74 | 0.74 |
| 16.33 | 21.54 | 22.01 | 4.74 | 104.24 | 2.70 | 0.76 | 0.76 |
| 16.38 | 17.06 | 17.28 | 6.24 | 107.80 | 2.83 | 0.76 | 0.76 |
| 16.47 | 14.43 | 14.45 | 7.58 | 109.50 | 2.93 | 0.77 | 0.77 |
| 16.54 | 12.64 | 12.69 | 8.71 | 110.54 | 3.00 | 0.77 | 0.77 |
| 16.62 | 11.80 | 11.71 | 9.67 | 113.31 | 3.05 | 0.52 | 0.84 |
| 16.70 | 11.53 | 11.36 | 10.18 | 115.66 | 3.08 | 0.56 | 0.81 |
| 16.76 | 12.28 | 12.12 | 9.88 | 119.66 | 3.06 | 0.59 | 0.87 |
| 16.86 | 14.88 | 14.80 | 8.08 | 119.59 | 2.96 | 0.78 | 0.78 |
| 16.90 | 19.33 | 19.15 | 6.07 | 116.24 | 2.82 | 0.78 | 0.78 |
| 16.98 | 25.84 | 25.69 | 4.22 | 108.51 | 2.65 | 0.76 | 0.76 |
| 17.05 | 35.42 | 35.23 | 2.81 | 99.11 | 2.48 | 0.75 | 0.75 |
| 17.14 | 47.54 | 47.19 | 1.94 | 91.71 | 2.30 | 0.73 | 0.73 |
| 17.20 | 61.48 | 60.90 | 1.51 | 91.88 | 2.15 | 0.73 | 0.73 |
| 17.29 | 73.03 | 72.03 | 1.35 | 97.56 | 2.05 | 0.74 | 0.74 |
| 17.34 | 81.99 | 80.70 | 1.30 | 104.58 | 1.99 | 0.76 | 0.76 |
| 17.44 | 86.87 | 85.21 | 1.28 | 109.31 | 1.97 | 0.76 | 0.76 |
| 17.50 | 88.89 | 86.96 | 1.26 | 109.36 | 1.93 | 0.76 | 0.76 |
| 17.58 | 88.15 | 85.91 | 1.24 | 106.78 | 1.91 | 0.76 | 0.76 |
| 17.64 | 85.02 | 82.63 | 1.24 | 102.13 | 1.90 | 0.75 | 0.75 |
| 17.75 | 80.50 | 77.97 | 1.27 | 99.12 | 1.95 | 0.75 | 0.75 |
| 17.82 | 72.08 | 69.66 | 1.35 | 93.80 | 2.04 | 0.74 | 0.74 |
| 17.89 | 66.02 | 63.60 | 1.43 | 91.18 | 2.11 | 0.73 | 0.73 |
| 17.89 | 62.68 | 60.37 | 1.51 | 91.04 | 2.15 | 0.73 | 0.73 |
| 17.96 | 64.06 | 61.55 | 1.50 | 92.30 | 2.15 | 0.73 | 0.73 |
| 18.02 | 65.34 | 62.67 | 1.51 | 94.33 | 2.15 | 0.74 | 0.74 |
| 18.07 | 66.86 | 64.01 | 1.51 | 96.43 | 2.15 | 0.74 | 0.74 |
| 18.17 | 68.78 | 65.62 | 1.49 | 98.02 | 2.14 | 0.74 | 0.74 |
| 18.22 | 68.74 | 65.47 | 1.51 | 98.54 | 2.15 | 0.75 | 0.75 |
| 18.30 | 65.20 | 61.85 | 1.59 | 98.20 | 2.19 | 0.74 | 0.74 |
| 18.36 | 57.69 | 54.52 | 1.83 | 99.83 | 2.27 | 0.75 | 0.75 |
| 18.42 | 49.20 | 46.28 | 2.30 | 106.36 | 2.39 | 0.76 | 0.76 |
| 18.50 | 39.97 | 37.31 | 3.16 | 118.00 | 2.53 | 0.78 | 0.78 |
| 18.56 | 32.38 | 29.97 | 4.32 | 129.55 | 2.66 | 0.80 | 0.80 |
| 18.62 | 25.71 | 23.53 | 5.80 | 136.40 | 2.80 | 0.81 | 0.81 |
| 18.69 | 23.96 | 21.78 | 6.13 | 133.60 | 2.82 | 0.80 | 0.80 |
| 18.76 | 22.21 | 20.05 | 6.60 | 132.24 | 2.86 | 0.80 | 0.80 |
| 18.84 | 24.30 | 21.95 | 5.90 | 129.41 | 2.80 | 0.80 | 0.80 |
| 18.89 | 31.88 | 29.04 | 4.26 | 123.66 | 2.66 | 0.79 | 0.79 |
| 18.98 | 52.85 | 48.61 | 2.23 | 108.20 | 2.37 | 0.76 | 0.76 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 19.05 | 78.42 | 72.48 | 1.52 | 110.23 | 2.16 | 0.77 | 0.77 |
| 19.12 | 101.80 | 94.21 | 1.32 | 124.65 | 2.02 | 0.79 | 0.79 |
| 19.18 | 115.88 | 107.18 | 1.27 | 136.09 | 1.95 | 0.81 | 0.81 |
| 19.24 | 124.07 | 114.61 | 1.25 | 142.72 | 1.91 | 0.82 | 0.82 |
| 19.32 | 126.76 | 116.83 | 1.24 | 144.84 | 1.90 | 0.82 | 0.82 |
| 19.38 | 126.53 | 116.38 | 1.25 | 145.16 | 1.92 | 0.82 | 0.82 |
| 19.46 | 124.81 | 114.42 | 1.26 | 144.25 | 1.94 | 0.82 | 0.82 |
| 19.54 | 122.62 | 112.08 | 1.28 | 142.92 | 1.96 | 0.82 | 0.82 |
| 19.62 | 121.00 | 110.26 | 1.28 | 141.68 | 1.97 | 0.82 | 0.82 |
| 19.70 | 119.99 | 109.01 | 1.29 | 140.65 | 1.98 | 0.81 | 0.81 |
| 19.80 | 119.75 | 108.41 | 1.29 | 140.01 | 1.98 | 0.81 | 0.81 |
| 19.85 | 119.75 | 108.23 | 1.29 | 139.71 | 1.98 | 0.81 | 0.81 |
| 19.94 | 119.95 | 108.07 | 1.29 | 139.71 | 1.98 | 0.81 | 0.81 |
| 20.03 | 120.73 | 108.50 | 1.28 | 138.61 | 1.96 | 0.81 | 0.81 |
| 20.13 | 121.84 | 109.19 | 1.26 | 137.92 | 1.94 | 0.81 | 0.81 |
| 20.19 | 123.33 | 110.40 | 1.25 | 137.60 | 1.91 | 0.81 | 0.81 |
| 20.29 | 124.05 | 110.67 | 1.25 | 138.32 | 1.92 | 0.81 | 0.81 |
| 20.39 | 124.51 | 110.70 | 1.25 | 138.76 | 1.93 | 0.81 | 0.81 |
| 20.43 | 124.14 | 110.23 | 1.26 | 138.70 | 1.93 | 0.81 | 0.81 |
| 20.47 | 124.09 | 109.99 | 1.26 | 138.78 | 1.94 | 0.81 | 0.81 |
| 20.52 | 123.97 | 109.69 | 1.27 | 139.06 | 1.95 | 0.81 | 0.81 |
| 20.61 | 123.97 | 109.33 | 1.27 | 139.29 | 1.96 | 0.81 | 0.81 |
| 20.66 | 123.26 | 108.48 | 1.28 | 139.08 | 1.97 | 0.81 | 0.81 |
| 20.71 | 122.22 | 107.35 | 1.29 | 138.34 | 1.98 | 0.81 | 0.81 |
| 20.77 | 121.00 | 106.04 | 1.30 | 137.35 | 1.99 | 0.81 | 0.81 |
| 20.85 | 120.53 | 105.33 | 1.30 | 136.79 | 1.99 | 0.81 | 0.81 |
| 20.91 | 120.63 | 105.23 | 1.30 | 136.74 | 1.99 | 0.81 | 0.81 |
| 21.00 | 121.00 | 105.23 | 1.30 | 136.71 | 1.99 | 0.81 | 0.81 |
| 21.05 | 120.93 | 105.01 | 1.30 | 136.53 | 1.99 | 0.81 | 0.81 |
| 21.11 | 120.50 | 104.40 | 1.30 | 136.06 | 2.00 | 0.81 | 0.81 |
| 21.19 | 120.16 | 103.82 | 1.31 | 135.66 | 2.00 | 0.81 | 0.81 |
| 21.24 | 120.23 | 103.70 | 1.31 | 135.67 | 2.00 | 0.81 | 0.81 |
| 21.34 | 120.39 | 103.52 | 1.31 | 135.57 | 2.00 | 0.81 | 0.81 |
| 21.39 | 119.99 | 103.00 | 1.31 | 135.16 | 2.01 | 0.81 | 0.81 |
| 21.48 | 118.68 | 101.52 | 1.32 | 133.84 | 2.01 | 0.80 | 0.80 |
| 21.53 | 116.39 | 99.34 | 1.33 | 131.86 | 2.02 | 0.80 | 0.80 |
| 21.64 | 113.86 | 96.79 | 1.34 | 129.36 | 2.03 | 0.80 | 0.80 |
| 21.72 | 111.80 | 94.83 | 1.33 | 125.65 | 2.02 | 0.79 | 0.79 |
| 21.81 | 110.79 | 93.80 | 1.31 | 122.48 | 2.00 | 0.79 | 0.79 |
| 21.89 | 110.52 | 93.48 | 1.28 | 120.09 | 1.97 | 0.78 | 0.78 |
| 21.97 | 110.69 | 93.44 | 1.28 | 119.40 | 1.96 | 0.78 | 0.78 |
| 22.05 | 110.81 | 93.32 | 1.27 | 118.94 | 1.96 | 0.78 | 0.78 |
| 22.12 | 110.92 | 93.25 | 1.27 | 118.64 | 1.95 | 0.78 | 0.78 |
| 22.13 | 110.89 | 93.20 | 1.27 | 118.54 | 1.95 | 0.78 | 0.78 |
| 22.18 | 111.98 | 94.01 | 1.27 | 119.22 | 1.95 | 0.78 | 0.78 |
| 22.22 | 114.49 | 96.10 | 1.26 | 121.02 | 1.93 | 0.78 | 0.78 |
| 22.28 | 118.47 | 99.41 | 1.25 | 123.90 | 1.91 | 0.79 | 0.79 |
| 22.33 | 122.55 | 102.85 | 1.23 | 126.89 | 1.90 | 0.79 | 0.79 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 22.38 | 126.36 | 106.02 | 1.22 | 129.64 | 1.88 | 0.80 | 0.80 |
| 22.41 | 129.99 | 109.11 | 1.21 | 132.05 | 1.86 | 0.80 | 0.80 |
| 22.51 | 133.16 | 111.59 | 1.20 | 133.67 | 1.85 | 0.80 | 0.80 |
| 22.56 | 135.86 | 113.83 | 1.18 | 134.77 | 1.83 | 0.81 | 0.81 |
| 22.61 | 137.68 | 115.29 | 1.17 | 135.13 | 1.82 | 0.81 | 0.81 |
| 22.65 | 139.23 | 116.56 | 1.16 | 135.07 | 1.81 | 0.81 | 0.81 |
| 22.71 | 140.30 | 117.38 | 1.15 | 134.57 | 1.79 | 0.81 | 0.81 |
| 22.76 | 141.15 | 118.01 | 1.13 | 133.54 | 1.78 | 0.80 | 0.80 |
| 22.85 | 141.55 | 118.16 | 1.12 | 132.33 | 1.77 | 0.80 | 0.80 |
| 22.89 | 141.79 | 118.28 | 1.11 | 131.19 | 1.77 | 0.80 | 0.80 |
| 22.99 | 141.85 | 118.07 | 1.10 | 130.38 | 1.76 | 0.80 | 0.80 |
| 23.04 | 142.19 | 118.24 | 1.10 | 129.89 | 1.76 | 0.80 | 0.80 |
| 23.12 | 143.24 | 118.92 | 1.09 | 129.72 | 1.75 | 0.80 | 0.80 |
| 23.18 | 145.12 | 120.36 | 1.08 | 129.86 | 1.75 | 0.80 | 0.80 |
| 23.24 | 147.55 | 122.28 | 1.07 | 130.48 | 1.74 | 0.80 | 0.80 |
| 23.33 | 150.28 | 124.35 | 1.05 | 131.06 | 1.73 | 0.80 | 0.80 |
| 23.38 | 152.77 | 126.31 | 1.04 | 131.98 | 1.73 | 0.80 | 0.80 |
| 23.47 | 154.92 | 127.86 | 1.04 | 132.70 | 1.72 | 0.80 | 0.80 |
| 23.52 | 155.87 | 128.46 | 1.05 | 134.34 | 1.73 | 0.80 | 0.80 |
| 23.61 | 155.50 | 127.76 | 1.06 | 136.02 | 1.74 | 0.81 | 0.81 |
| 23.68 | 153.41 | 125.65 | 1.10 | 137.67 | 1.76 | 0.81 | 0.81 |
| 23.76 | 149.87 | 122.29 | 1.13 | 137.84 | 1.78 | 0.81 | 0.81 |
| 23.83 | 145.42 | 118.19 | 1.16 | 136.72 | 1.80 | 0.81 | 0.81 |
| 23.90 | 140.77 | 113.95 | 1.18 | 134.56 | 1.83 | 0.81 | 0.81 |
| 23.97 | 136.02 | 109.66 | 1.20 | 131.87 | 1.85 | 0.80 | 0.80 |
| 24.05 | 130.36 | 104.58 | 1.22 | 128.11 | 1.88 | 0.80 | 0.80 |
| 24.10 | 123.83 | 98.86 | 1.25 | 123.41 | 1.92 | 0.79 | 0.79 |
| 24.19 | 116.14 | 92.13 | 1.28 | 117.58 | 1.96 | 0.78 | 0.78 |
| 24.27 | 109.37 | 86.22 | 1.31 | 112.54 | 2.00 | 0.77 | 0.77 |
| 24.34 | 103.31 | 80.98 | 1.34 | 108.37 | 2.03 | 0.76 | 0.76 |
| 24.43 | 99.26 | 77.39 | 1.37 | 105.81 | 2.06 | 0.76 | 0.76 |
| 24.48 | 95.99 | 74.54 | 1.40 | 104.29 | 2.09 | 0.76 | 0.76 |
| 24.57 | 93.77 | 72.46 | 1.43 | 103.72 | 2.11 | 0.75 | 0.75 |
| 24.62 | 91.81 | 70.77 | 1.45 | 102.28 | 2.12 | 0.75 | 0.75 |
| 24.72 | 90.33 | 69.37 | 1.46 | 101.12 | 2.12 | 0.75 | 0.75 |
| 24.81 | 89.08 | 68.17 | 1.47 | 100.03 | 2.13 | 0.75 | 0.75 |
| 24.86 | 87.96 | 67.09 | 1.50 | 100.81 | 2.15 | 0.75 | 0.75 |
| 24.95 | 85.18 | 64.60 | 1.56 | 100.88 | 2.18 | 0.75 | 0.75 |
| 25.01 | 82.83 | 62.55 | 1.62 | 101.05 | 2.20 | 0.75 | 0.75 |
| 25.02 | 81.04 | 61.07 | 1.66 | 101.09 | 2.22 | 0.75 | 0.75 |
| 25.05 | 81.81 | 61.63 | 1.64 | 101.34 | 2.21 | 0.75 | 0.75 |
| 25.11 | 82.33 | 61.92 | 1.64 | 101.59 | 2.21 | 0.75 | 0.75 |
| 25.15 | 82.53 | 61.99 | 1.64 | 101.87 | 2.21 | 0.75 | 0.75 |
| 25.21 | 81.92 | 61.38 | 1.66 | 101.94 | 2.22 | 0.75 | 0.75 |
| 25.25 | 81.07 | 60.61 | 1.68 | 101.90 | 2.23 | 0.75 | 0.75 |
| 25.30 | 79.78 | 59.50 | 1.70 | 101.32 | 2.23 | 0.75 | 0.75 |
| 25.40 | 78.02 | 57.95 | 1.73 | 100.17 | 2.24 | 0.75 | 0.75 |
| 25.45 | 75.14 | 55.63 | 1.77 | 98.38 | 2.25 | 0.75 | 0.75 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 25.52 | 71.36 | 52.56 | 1.83 | 96.28 | 2.27 | 0.74 | 0.74 |
| 25.60 | 65.60 | 47.92 | 1.99 | 95.12 | 2.32 | 0.74 | 0.74 |
| 25.66 | 58.89 | 42.57 | 2.24 | 95.48 | 2.37 | 0.74 | 0.74 |
| 25.74 | 50.63 | 36.01 | 2.77 | 99.69 | 2.47 | 0.75 | 0.75 |
| 25.80 | 42.60 | 29.74 | 3.54 | 105.15 | 2.57 | 0.76 | 0.76 |
| 25.88 | 34.42 | 23.44 | 4.79 | 112.31 | 2.71 | 0.77 | 0.77 |
| 25.94 | 27.91 | 18.51 | 6.33 | 117.20 | 2.84 | 0.78 | 0.78 |
| 26.02 | 22.69 | 14.10 | 8.40 | 118.43 | 2.98 | 0.78 | 0.78 |
| 26.09 | 19.19 | 11.73 | 10.09 | 118.41 | 3.07 | 0.59 | 0.84 |
| 26.17 | 16.36 | 9.82 | 11.90 | 116.89 | 3.16 | 0.54 | 0.70 |
| 26.23 | 14.50 | 8.57 | 13.49 | 115.61 | 3.23 | 0.51 | 0.61 |
| 26.29 | 13.56 | 7.93 | 14.54 | 115.33 | 3.28 | 0.51 | 0.57 |
| 26.37 | 13.73 | 8.01 | 14.49 | 116.10 | 3.27 | 0.51 | 0.57 |
| 26.46 | 14.95 | 8.78 | 13.45 | 118.10 | 3.23 | 0.54 | 0.63 |
| 26.55 | 16.56 | 9.80 | 12.25 | 120.00 | 3.18 | 0.59 | 0.70 |
| 26.60 | 18.04 | 10.74 | 11.37 | 122.14 | 3.14 | 0.60 | 0.77 |
| 26.70 | 18.79 | 11.18 | 11.11 | 124.24 | 3.12 | 0.63 | 0.80 |
| 26.78 | 19.09 | 11.34 | 11.11 | 125.96 | 3.12 | 0.67 | 0.81 |
| 26.87 | 19.16 | 11.34 | 10.61 | 120.33 | 3.10 | 0.66 | 0.81 |
| 26.94 | 19.06 | 11.25 | 9.74 | 109.55 | 3.05 | 0.47 | 0.80 |
| 27.03 | 18.62 | 10.92 | 9.23 | 100.80 | 3.03 | 0.36 | 0.78 |
| 27.13 | 17.84 | 10.38 | 9.61 | 99.83 | 3.05 | 0.42 | 0.74 |
| 27.18 | 15.89 | 9.12 | 11.41 | 104.10 | 3.14 | 0.42 | 0.65 |
| 27.27 | 14.61 | 8.27 | 12.75 | 105.48 | 3.20 | 0.42 | 0.59 |
| 27.32 | 14.00 | 7.87 | 13.55 | 106.67 | 3.23 | 0.43 | 0.56 |
| 27.37 | 14.68 | 8.28 | 12.99 | 107.59 | 3.21 | 0.44 | 0.59 |
| 27.41 | 15.01 | 8.48 | 12.84 | 108.89 | 3.20 | 0.46 | 0.61 |
| 27.46 | 15.01 | 8.47 | 13.04 | 110.36 | 3.21 | 0.47 | 0.60 |
| 27.51 | 15.19 | 8.56 | 13.12 | 112.25 | 3.22 | 0.48 | 0.61 |
| 27.61 | 15.69 | 8.84 | 13.00 | 114.96 | 3.21 | 0.51 | 0.63 |
| 27.66 | 16.81 | 9.52 | 12.66 | 120.53 | 3.20 | 0.56 | 0.68 |
| 27.73 | 19.30 | 11.05 | 11.59 | 128.02 | 3.15 | 0.66 | 0.79 |
| 27.80 | 22.77 | 13.18 | 10.46 | 137.91 | 3.09 | 0.80 | 0.94 |
| 27.88 | 26.51 | 15.46 | 9.62 | 148.75 | 3.05 | 0.98 | 1.10 |
| 27.96 | 28.73 | 16.78 | 9.46 | 158.82 | 3.04 | 1.16 | 1.20 |
| 28.04 | 29.44 | 17.16 | 9.86 | 169.19 | 3.06 | 1.25 | 1.23 |
| 28.12 | 29.30 | 17.02 | 10.34 | 175.99 | 3.09 | 1.41 | 1.22 |
| 28.18 | 29.78 | 17.27 | 10.47 | 180.83 | 3.09 | 1.43 | 1.23 |
| 28.27 | 30.99 | 17.95 | 10.11 | 181.45 | 3.07 | 1.47 | 1.28 |
| 28.32 | 32.84 | 19.04 | 9.54 | 181.70 | 3.04 | 1.48 | 1.36 |
| 28.42 | 34.90 | 20.22 | 8.98 | 181.66 | 3.01 | 1.51 | 1.44 |
| 28.47 | 37.02 | 21.47 | 8.57 | 183.98 | 2.99 | 0.87 | 0.87 |
| 28.61 | 38.87 | 22.47 | 8.32 | 186.93 | 2.97 | 0.87 | 0.87 |
| 28.67 | 40.79 | 23.57 | 8.10 | 190.99 | 2.96 | 0.88 | 0.88 |
| 28.75 | 43.62 | 26.58 | 7.37 | 195.90 | 2.91 | 0.88 | 0.88 |
| 28.81 | 49.52 | 30.58 | 6.28 | 192.19 | 2.83 | 0.88 | 0.88 |
| 28.90 | 59.16 | 37.21 | 4.89 | 181.92 | 2.72 | 0.87 | 0.87 |
| 29.00 | 70.68 | 45.27 | 3.75 | 169.71 | 2.60 | 0.85 | 0.85 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 29.05 | 82.68 | 53.82 | 2.95 | 158.84 | 2.50 | 0.84 | 0.84 |
| 29.10 | 92.58 | 60.99 | 2.48 | 151.03 | 2.42 | 0.83 | 0.83 |
| 29.15 | 101.07 | 67.24 | 2.13 | 143.11 | 2.35 | 0.82 | 0.82 |
| 29.24 | 105.88 | 70.82 | 1.92 | 136.02 | 2.30 | 0.81 | 0.81 |
| 29.29 | 107.45 | 72.19 | 1.78 | 128.66 | 2.26 | 0.80 | 0.80 |
| 29.37 | 106.66 | 71.76 | 1.71 | 122.57 | 2.23 | 0.79 | 0.79 |
| 29.43 | 105.44 | 71.05 | 1.64 | 116.77 | 2.21 | 0.78 | 0.78 |
| 29.53 | 104.90 | 70.72 | 1.59 | 112.38 | 2.19 | 0.77 | 0.77 |
| 29.62 | 104.73 | 70.61 | 1.55 | 109.62 | 2.17 | 0.77 | 0.77 |
| 29.68 | 104.75 | 70.73 | 1.51 | 106.89 | 2.15 | 0.76 | 0.76 |
| 29.80 | 104.42 | 70.36 | 1.50 | 105.63 | 2.15 | 0.76 | 0.76 |
| 29.91 | 103.80 | 69.74 | 1.50 | 104.61 | 2.15 | 0.76 | 0.76 |
| 30.00 | 99.10 | 65.97 | 1.59 | 104.86 | 2.19 | 0.76 | 0.76 |
| 30.07 | 97.42 | 64.55 | 1.63 | 105.36 | 2.21 | 0.76 | 0.76 |
| 30.15 | 96.27 | 63.56 | 1.66 | 105.54 | 2.22 | 0.76 | 0.76 |
| 30.21 | 99.04 | 65.49 | 1.62 | 105.77 | 2.20 | 0.76 | 0.76 |
| 30.26 | 98.71 | 65.16 | 1.62 | 105.66 | 2.20 | 0.76 | 0.76 |
| 30.31 | 97.50 | 64.21 | 1.64 | 105.39 | 2.21 | 0.76 | 0.76 |
| 30.38 | 95.52 | 62.65 | 1.67 | 104.86 | 2.22 | 0.76 | 0.76 |
| 30.45 | 92.62 | 60.44 | 1.72 | 104.23 | 2.24 | 0.76 | 0.76 |
| 30.50 | 89.12 | 57.84 | 1.79 | 103.72 | 2.26 | 0.75 | 0.75 |
| 30.55 | 84.94 | 54.79 | 1.88 | 102.88 | 2.29 | 0.75 | 0.75 |
| 30.64 | 81.19 | 52.03 | 1.96 | 101.83 | 2.31 | 0.75 | 0.75 |
| 30.70 | 77.93 | 49.71 | 2.01 | 100.16 | 2.32 | 0.75 | 0.75 |
| 30.79 | 76.04 | 48.30 | 2.05 | 98.96 | 2.33 | 0.75 | 0.75 |
| 30.84 | 75.47 | 47.86 | 2.05 | 98.19 | 2.33 | 0.74 | 0.74 |
| 30.93 | 76.95 | 48.79 | 2.01 | 98.05 | 2.32 | 0.74 | 0.74 |
| 30.98 | 80.15 | 50.98 | 1.93 | 98.14 | 2.30 | 0.74 | 0.74 |
| 31.05 | 85.34 | 54.54 | 1.81 | 98.98 | 2.27 | 0.75 | 0.75 |
| 31.13 | 91.57 | 58.82 | 1.71 | 100.51 | 2.24 | 0.75 | 0.75 |
| 31.17 | 100.46 | 65.08 | 1.58 | 102.97 | 2.19 | 0.75 | 0.75 |
| 31.27 | 110.94 | 72.52 | 1.47 | 106.25 | 2.13 | 0.76 | 0.76 |
| 31.32 | 123.23 | 81.52 | 1.37 | 111.37 | 2.06 | 0.77 | 0.77 |
| 31.41 | 133.45 | 89.03 | 1.31 | 116.56 | 2.00 | 0.78 | 0.78 |
| 31.46 | 140.90 | 94.67 | 1.28 | 120.72 | 1.96 | 0.78 | 0.78 |
| 31.52 | 144.37 | 97.40 | 1.26 | 122.24 | 1.93 | 0.79 | 0.79 |
| 31.61 | 145.01 | 97.95 | 1.24 | 121.83 | 1.91 | 0.79 | 0.79 |
| 31.66 | 142.15 | 95.90 | 1.24 | 119.20 | 1.91 | 0.78 | 0.78 |
| 31.75 | 136.69 | 91.66 | 1.26 | 115.29 | 1.93 | 0.78 | 0.78 |
| 31.80 | 129.14 | 85.76 | 1.29 | 110.68 | 1.98 | 0.77 | 0.77 |
| 31.90 | 122.00 | 80.16 | 1.33 | 106.52 | 2.02 | 0.76 | 0.76 |
| 31.94 | 116.84 | 76.18 | 1.37 | 104.07 | 2.06 | 0.76 | 0.76 |
| 32.04 | 116.03 | 75.33 | 1.38 | 104.00 | 2.07 | 0.76 | 0.76 |
| 32.09 | 119.17 | 77.25 | 1.39 | 107.23 | 2.08 | 0.76 | 0.76 |
| 32.20 | 118.70 | 76.38 | 1.43 | 109.06 | 2.11 | 0.76 | 0.76 |
| 32.24 | 117.72 | 75.37 | 1.47 | 110.44 | 2.13 | 0.77 | 0.77 |
| 32.28 | 114.69 | 73.02 | 1.51 | 110.26 | 2.15 | 0.77 | 0.77 |
| 32.29 | 116.70 | 74.43 | 1.49 | 111.09 | 2.14 | 0.77 | 0.77 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 32.30 | 118.93 | 75.98 | 1.47 | 112.06 | 2.13 | 0.77 | 0.77 |
| 32.40 | 120.51 | 76.91 | 1.47 | 112.71 | 2.13 | 0.77 | 0.77 |
| 32.45 | 120.48 | 76.77 | 1.47 | 112.95 | 2.13 | 0.77 | 0.77 |
| 32.55 | 119.13 | 75.61 | 1.49 | 112.51 | 2.14 | 0.77 | 0.77 |
| 32.59 | 118.33 | 74.91 | 1.50 | 112.50 | 2.15 | 0.77 | 0.77 |
| 32.69 | 118.13 | 74.54 | 1.51 | 112.79 | 2.15 | 0.77 | 0.77 |
| 32.76 | 118.09 | 74.31 | 1.53 | 113.51 | 2.16 | 0.77 | 0.77 |
| 32.84 | 118.40 | 74.31 | 1.54 | 114.35 | 2.17 | 0.77 | 0.77 |
| 32.90 | 119.00 | 74.55 | 1.55 | 115.19 | 2.17 | 0.77 | 0.77 |
| 32.98 | 119.95 | 75.02 | 1.54 | 115.83 | 2.17 | 0.78 | 0.78 |
| 33.06 | 121.02 | 75.61 | 1.54 | 116.33 | 2.17 | 0.78 | 0.78 |
| 33.12 | 122.10 | 76.23 | 1.53 | 116.77 | 2.16 | 0.78 | 0.78 |
| 33.22 | 122.84 | 76.56 | 1.53 | 117.03 | 2.16 | 0.78 | 0.78 |
| 33.31 | 123.21 | 76.64 | 1.53 | 117.14 | 2.16 | 0.78 | 0.78 |
| 33.37 | 123.28 | 76.59 | 1.53 | 117.11 | 2.16 | 0.78 | 0.78 |
| 33.46 | 123.28 | 76.41 | 1.53 | 117.00 | 2.16 | 0.78 | 0.78 |
| 33.55 | 123.18 | 76.17 | 1.54 | 117.00 | 2.17 | 0.78 | 0.78 |
| 33.65 | 122.98 | 75.83 | 1.54 | 117.07 | 2.17 | 0.78 | 0.78 |
| 33.70 | 122.57 | 75.42 | 1.55 | 117.18 | 2.17 | 0.78 | 0.78 |
| 33.79 | 122.03 | 74.86 | 1.56 | 117.10 | 2.18 | 0.78 | 0.78 |
| 33.89 | 121.09 | 74.04 | 1.58 | 116.76 | 2.18 | 0.78 | 0.78 |
| 33.99 | 119.77 | 72.98 | 1.59 | 116.20 | 2.19 | 0.78 | 0.78 |
| 34.04 | 117.79 | 71.55 | 1.61 | 115.43 | 2.20 | 0.78 | 0.78 |
| 34.13 | 115.49 | 69.85 | 1.64 | 114.59 | 2.21 | 0.77 | 0.77 |
| 34.23 | 112.70 | 67.80 | 1.68 | 113.76 | 2.22 | 0.77 | 0.77 |
| 34.32 | 110.27 | 66.01 | 1.71 | 113.20 | 2.24 | 0.77 | 0.77 |
| 34.37 | 108.22 | 64.55 | 1.75 | 112.84 | 2.25 | 0.77 | 0.77 |
| 34.47 | 106.60 | 63.31 | 1.78 | 112.69 | 2.26 | 0.77 | 0.77 |
| 34.55 | 103.47 | 61.05 | 1.85 | 112.96 | 2.28 | 0.77 | 0.77 |
| 34.63 | 96.66 | 56.31 | 2.04 | 114.64 | 2.33 | 0.77 | 0.77 |
| 34.73 | 86.37 | 49.33 | 2.40 | 118.21 | 2.40 | 0.78 | 0.78 |
| 34.80 | 72.76 | 40.42 | 3.06 | 123.59 | 2.51 | 0.79 | 0.79 |
| 34.90 | 60.46 | 32.62 | 3.90 | 127.28 | 2.62 | 0.79 | 0.79 |
| 35.00 | 54.92 | 29.29 | 4.16 | 121.79 | 2.64 | 0.79 | 0.79 |
| 35.12 | 50.37 | 26.54 | 4.42 | 117.31 | 2.67 | 0.78 | 0.78 |
| 35.20 | 52.86 | 28.11 | 3.99 | 112.19 | 2.63 | 0.77 | 0.77 |
| 35.33 | 53.65 | 28.43 | 4.02 | 114.42 | 2.63 | 0.77 | 0.77 |
| 35.41 | 63.41 | 34.44 | 3.20 | 110.34 | 2.53 | 0.77 | 0.77 |
| 35.44 | 68.58 | 37.68 | 2.87 | 108.02 | 2.48 | 0.76 | 0.76 |
| 35.48 | 76.82 | 42.96 | 2.42 | 103.82 | 2.41 | 0.76 | 0.76 |
| 35.57 | 84.09 | 47.63 | 2.12 | 101.05 | 2.35 | 0.75 | 0.75 |
| 35.62 | 98.70 | 57.30 | 1.73 | 98.99 | 2.24 | 0.75 | 0.75 |
| 35.67 | 115.40 | 68.51 | 1.49 | 102.07 | 2.14 | 0.75 | 0.75 |
| 35.71 | 137.52 | 83.52 | 1.35 | 112.52 | 2.04 | 0.77 | 0.77 |
| 35.82 | 159.89 | 98.71 | 1.28 | 126.36 | 1.96 | 0.79 | 0.79 |
| 35.86 | 185.11 | 116.11 | 1.23 | 143.07 | 1.89 | 0.82 | 0.82 |
| 35.93 | 207.72 | 131.80 | 1.19 | 156.85 | 1.84 | 0.84 | 0.84 |
| 36.01 | 225.38 | 144.00 | 1.16 | 166.33 | 1.80 | 0.85 | 0.85 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 36.06 | 235.57 | 150.92 | 1.14 | 171.69 | 1.79 | 0.85 | 0.85 |
| 36.12 | 240.67 | 154.12 | 1.13 | 174.89 | 1.78 | 0.86 | 0.86 |
| 36.18 | 245.05 | 156.73 | 1.14 | 178.20 | 1.79 | 0.86 | 0.86 |
| 36.25 | 248.69 | 158.84 | 1.14 | 180.98 | 1.79 | 0.87 | 0.87 |
| 36.30 | 251.52 | 160.26 | 1.15 | 184.12 | 1.80 | 0.87 | 0.87 |
| 36.39 | 252.83 | 160.54 | 1.16 | 185.99 | 1.81 | 0.87 | 0.87 |
| 36.44 | 253.07 | 160.15 | 1.17 | 187.57 | 1.82 | 0.87 | 0.87 |
| 36.53 | 251.49 | 158.45 | 1.18 | 187.51 | 1.83 | 0.87 | 0.87 |
| 36.59 | 248.39 | 155.45 | 1.21 | 187.43 | 1.86 | 0.87 | 0.87 |
| 36.68 | 243.47 | 151.62 | 1.22 | 184.49 | 1.87 | 0.87 | 0.87 |
| 36.75 | 238.34 | 147.93 | 1.22 | 180.99 | 1.88 | 0.87 | 0.87 |
| 36.83 | 232.04 | 143.78 | 1.22 | 175.91 | 1.88 | 0.86 | 0.86 |
| 36.90 | 225.27 | 138.95 | 1.23 | 171.34 | 1.89 | 0.85 | 0.85 |
| 36.97 | 217.18 | 133.11 | 1.25 | 166.05 | 1.92 | 0.85 | 0.85 |
| 37.02 | 201.72 | 122.19 | 1.28 | 156.23 | 1.96 | 0.84 | 0.84 |
| 37.04 | 193.70 | 116.64 | 1.30 | 151.13 | 1.99 | 0.83 | 0.83 |
| 37.08 | 188.61 | 113.19 | 1.30 | 147.61 | 2.00 | 0.82 | 0.82 |
| 37.17 | 191.78 | 115.46 | 1.29 | 148.65 | 1.97 | 0.83 | 0.83 |
| 37.27 | 187.30 | 112.45 | 1.29 | 145.04 | 1.98 | 0.82 | 0.82 |
| 37.37 | 181.37 | 108.42 | 1.30 | 140.68 | 1.99 | 0.81 | 0.81 |
| 37.42 | 177.21 | 105.83 | 1.30 | 137.22 | 1.99 | 0.81 | 0.81 |
| 37.51 | 175.89 | 105.19 | 1.29 | 135.25 | 1.97 | 0.81 | 0.81 |
| 37.58 | 176.97 | 106.34 | 1.27 | 134.76 | 1.95 | 0.81 | 0.81 |
| 37.66 | 179.01 | 108.07 | 1.25 | 135.08 | 1.92 | 0.81 | 0.81 |
| 37.76 | 182.58 | 110.83 | 1.23 | 136.26 | 1.89 | 0.81 | 0.81 |
| 37.85 | 186.08 | 113.57 | 1.21 | 137.18 | 1.86 | 0.81 | 0.81 |
| 37.93 | 189.62 | 116.22 | 1.19 | 138.14 | 1.84 | 0.81 | 0.81 |
| 38.04 | 192.25 | 117.99 | 1.18 | 138.80 | 1.82 | 0.81 | 0.81 |
| 38.13 | 193.87 | 118.97 | 1.17 | 139.30 | 1.82 | 0.81 | 0.81 |
| 38.18 | 193.57 | 118.63 | 1.17 | 139.16 | 1.82 | 0.81 | 0.81 |
| 38.28 | 191.24 | 116.58 | 1.19 | 138.51 | 1.84 | 0.81 | 0.81 |
| 38.37 | 187.40 | 113.37 | 1.21 | 137.08 | 1.86 | 0.81 | 0.81 |
| 38.47 | 183.55 | 109.99 | 1.23 | 135.63 | 1.89 | 0.81 | 0.81 |
| 38.57 | 180.39 | 107.19 | 1.25 | 134.14 | 1.92 | 0.80 | 0.80 |
| 38.62 | 176.78 | 104.23 | 1.27 | 132.48 | 1.95 | 0.80 | 0.80 |
| 38.72 | 167.48 | 97.43 | 1.31 | 127.27 | 2.00 | 0.79 | 0.79 |
| 38.78 | 160.21 | 92.19 | 1.34 | 123.72 | 2.04 | 0.79 | 0.79 |
| 38.81 | 155.32 | 88.77 | 1.37 | 121.63 | 2.06 | 0.79 | 0.79 |
| 38.86 | 155.19 | 88.54 | 1.37 | 121.68 | 2.07 | 0.79 | 0.79 |
| 38.91 | 152.02 | 86.27 | 1.40 | 120.51 | 2.08 | 0.78 | 0.78 |
| 38.95 | 145.92 | 82.06 | 1.44 | 118.55 | 2.12 | 0.78 | 0.78 |
| 39.05 | 139.55 | 77.66 | 1.51 | 116.91 | 2.15 | 0.78 | 0.78 |
| 39.09 | 132.37 | 72.88 | 1.59 | 115.64 | 2.19 | 0.78 | 0.78 |
| 39.14 | 125.06 | 68.10 | 1.69 | 114.83 | 2.23 | 0.77 | 0.77 |
| 39.24 | 118.19 | 63.61 | 1.80 | 114.32 | 2.26 | 0.77 | 0.77 |
| 39.29 | 112.16 | 59.80 | 1.91 | 114.03 | 2.30 | 0.77 | 0.77 |
| 39.39 | 108.48 | 57.39 | 1.99 | 114.16 | 2.32 | 0.77 | 0.77 |
| 39.43 | 109.15 | 57.74 | 1.98 | 114.28 | 2.31 | 0.77 | 0.77 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 39.53 | 115.02 | 61.25 | 1.86 | 113.89 | 2.28 | 0.77 | 0.77 |
| 39.57 | 124.17 | 67.01 | 1.69 | 113.55 | 2.23 | 0.77 | 0.77 |
| 39.68 | 130.64 | 71.04 | 1.60 | 113.69 | 2.19 | 0.77 | 0.77 |
| 39.73 | 131.95 | 71.83 | 1.58 | 113.53 | 2.19 | 0.77 | 0.77 |
| 39.81 | 129.33 | 70.10 | 1.60 | 112.48 | 2.20 | 0.77 | 0.77 |
| 39.89 | 126.37 | 68.39 | 1.60 | 109.51 | 2.19 | 0.77 | 0.77 |
| 39.96 | 125.26 | 68.01 | 1.56 | 105.89 | 2.18 | 0.76 | 0.76 |
| 40.06 | 124.52 | 67.75 | 1.52 | 103.14 | 2.16 | 0.75 | 0.75 |
| 40.15 | 122.70 | 66.50 | 1.54 | 102.38 | 2.17 | 0.75 | 0.75 |
| 40.20 | 114.41 | 61.03 | 1.67 | 102.07 | 2.22 | 0.75 | 0.75 |
| 40.24 | 108.56 | 57.23 | 1.79 | 102.62 | 2.26 | 0.75 | 0.75 |
| 40.26 | 104.17 | 54.45 | 1.90 | 103.22 | 2.29 | 0.75 | 0.75 |
| 40.27 | 107.91 | 56.72 | 1.82 | 103.36 | 2.27 | 0.75 | 0.75 |
| 40.37 | 109.77 | 57.73 | 1.80 | 103.81 | 2.26 | 0.76 | 0.76 |
| 40.42 | 111.64 | 58.75 | 1.78 | 104.71 | 2.26 | 0.76 | 0.76 |
| 40.52 | 112.38 | 59.02 | 1.79 | 105.44 | 2.26 | 0.76 | 0.76 |
| 40.56 | 115.27 | 60.66 | 1.76 | 106.63 | 2.25 | 0.76 | 0.76 |
| 40.66 | 122.24 | 64.78 | 1.67 | 108.06 | 2.22 | 0.76 | 0.76 |
| 40.70 | 131.54 | 70.42 | 1.57 | 110.67 | 2.18 | 0.77 | 0.77 |
| 40.75 | 142.59 | 77.15 | 1.49 | 114.79 | 2.14 | 0.77 | 0.77 |
| 40.85 | 153.40 | 83.66 | 1.43 | 119.75 | 2.11 | 0.78 | 0.78 |
| 40.91 | 164.05 | 90.16 | 1.39 | 125.10 | 2.08 | 0.79 | 0.79 |
| 40.96 | 174.69 | 96.83 | 1.35 | 130.56 | 2.04 | 0.80 | 0.80 |
| 41.04 | 184.27 | 102.87 | 1.32 | 135.59 | 2.01 | 0.81 | 0.81 |
| 41.09 | 193.94 | 109.10 | 1.29 | 141.03 | 1.98 | 0.81 | 0.81 |
| 41.18 | 201.90 | 114.17 | 1.28 | 145.57 | 1.96 | 0.82 | 0.82 |
| 41.23 | 207.97 | 118.08 | 1.26 | 149.12 | 1.94 | 0.83 | 0.83 |
| 41.29 | 211.58 | 120.37 | 1.26 | 151.17 | 1.93 | 0.83 | 0.83 |
| 41.38 | 212.76 | 120.98 | 1.25 | 151.67 | 1.93 | 0.83 | 0.83 |
| 41.42 | 212.09 | 120.40 | 1.26 | 151.21 | 1.93 | 0.83 | 0.83 |
| 41.52 | 210.03 | 118.76 | 1.26 | 149.86 | 1.94 | 0.83 | 0.83 |
| 41.57 | 207.27 | 116.72 | 1.27 | 148.26 | 1.95 | 0.82 | 0.82 |
| 41.62 | 204.91 | 114.93 | 1.28 | 146.93 | 1.96 | 0.82 | 0.82 |
| 41.71 | 203.13 | 113.45 | 1.29 | 145.89 | 1.97 | 0.82 | 0.82 |
| 41.76 | 202.15 | 112.60 | 1.29 | 145.43 | 1.98 | 0.82 | 0.82 |
| 41.84 | 201.65 | 111.98 | 1.30 | 145.17 | 1.99 | 0.82 | 0.82 |
| 41.91 | 201.54 | 111.64 | 1.30 | 145.22 | 1.99 | 0.82 | 0.82 |
| 41.95 | 201.75 | 111.52 | 1.31 | 145.53 | 2.00 | 0.82 | 0.82 |
| 42.01 | 202.52 | 111.63 | 1.31 | 146.36 | 2.00 | 0.82 | 0.82 |
| 42.10 | 203.57 | 111.82 | 1.32 | 147.40 | 2.01 | 0.82 | 0.82 |
| 42.15 | 204.98 | 112.23 | 1.33 | 148.90 | 2.02 | 0.83 | 0.83 |
| 42.24 | 206.03 | 112.44 | 1.33 | 149.94 | 2.03 | 0.83 | 0.83 |
| 42.28 | 206.46 | 112.53 | 1.34 | 150.31 | 2.03 | 0.83 | 0.83 |
| 42.39 | 206.26 | 112.27 | 1.33 | 149.81 | 2.03 | 0.83 | 0.83 |
| 42.43 | 206.08 | 112.28 | 1.33 | 149.14 | 2.02 | 0.83 | 0.83 |
| 42.50 | 206.11 | 112.45 | 1.32 | 148.36 | 2.01 | 0.82 | 0.82 |
| 42.58 | 206.28 | 112.80 | 1.31 | 147.54 | 2.00 | 0.82 | 0.82 |
| 42.65 | 198.95 | 108.28 | 1.32 | 142.73 | 2.01 | 0.82 | 0.82 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 42.70 | 195.88 | 106.39 | 1.32 | 140.58 | 2.02 | 0.81 | 0.81 |
| 42.73 | 193.72 | 105.08 | 1.32 | 139.14 | 2.02 | 0.81 | 0.81 |
| 42.77 | 200.19 | 109.31 | 1.30 | 142.31 | 1.99 | 0.82 | 0.82 |
| 42.82 | 203.83 | 111.68 | 1.29 | 144.06 | 1.98 | 0.82 | 0.82 |
| 42.87 | 209.12 | 115.10 | 1.28 | 146.92 | 1.96 | 0.82 | 0.82 |
| 42.91 | 215.46 | 119.14 | 1.26 | 150.57 | 1.94 | 0.83 | 0.83 |
| 42.97 | 221.76 | 123.09 | 1.25 | 154.27 | 1.92 | 0.83 | 0.83 |
| 43.02 | 226.82 | 126.14 | 1.25 | 157.35 | 1.92 | 0.84 | 0.84 |
| 43.06 | 230.49 | 128.19 | 1.25 | 159.72 | 1.91 | 0.84 | 0.84 |
| 43.11 | 234.33 | 130.34 | 1.24 | 162.21 | 1.91 | 0.84 | 0.84 |
| 43.17 | 237.93 | 132.40 | 1.24 | 164.40 | 1.91 | 0.85 | 0.85 |
| 43.21 | 242.21 | 135.09 | 1.23 | 166.83 | 1.90 | 0.85 | 0.85 |
| 43.29 | 246.19 | 137.59 | 1.23 | 168.85 | 1.89 | 0.85 | 0.85 |
| 43.34 | 250.53 | 140.43 | 1.22 | 171.05 | 1.87 | 0.85 | 0.85 |
| 43.39 | 254.11 | 142.76 | 1.21 | 172.71 | 1.86 | 0.86 | 0.86 |
| 43.45 | 256.87 | 144.64 | 1.20 | 173.74 | 1.85 | 0.86 | 0.86 |
| 43.51 | 258.25 | 145.84 | 1.19 | 173.50 | 1.84 | 0.86 | 0.86 |
| 43.59 | 258.59 | 146.35 | 1.18 | 172.47 | 1.82 | 0.86 | 0.86 |
| 43.64 | 259.19 | 147.38 | 1.16 | 170.73 | 1.80 | 0.85 | 0.85 |
| 43.70 | 259.29 | 148.12 | 1.13 | 168.10 | 1.78 | 0.85 | 0.85 |
| 43.78 | 258.35 | 147.98 | 1.12 | 165.08 | 1.77 | 0.85 | 0.85 |
| 43.88 | 255.18 | 145.77 | 1.12 | 163.55 | 1.77 | 0.84 | 0.84 |
| 43.94 | 244.77 | 138.10 | 1.17 | 161.52 | 1.82 | 0.84 | 0.84 |
| 44.04 | 234.93 | 130.84 | 1.21 | 157.74 | 1.86 | 0.84 | 0.84 |
| 44.07 | 225.87 | 124.41 | 1.23 | 153.31 | 1.89 | 0.83 | 0.83 |
| 44.12 | 223.58 | 122.68 | 1.24 | 152.08 | 1.90 | 0.83 | 0.83 |
| 44.16 | 221.15 | 120.94 | 1.25 | 150.70 | 1.91 | 0.83 | 0.83 |
| 44.21 | 218.05 | 118.76 | 1.25 | 148.86 | 1.93 | 0.83 | 0.83 |
| 44.26 | 214.65 | 116.39 | 1.26 | 146.86 | 1.94 | 0.82 | 0.82 |
| 44.31 | 210.81 | 113.73 | 1.27 | 144.63 | 1.95 | 0.82 | 0.82 |
| 44.35 | 206.97 | 111.11 | 1.28 | 142.44 | 1.97 | 0.82 | 0.82 |
| 44.40 | 203.26 | 108.60 | 1.29 | 140.32 | 1.98 | 0.81 | 0.81 |
| 44.45 | 200.16 | 106.49 | 1.30 | 138.56 | 1.99 | 0.81 | 0.81 |
| 44.50 | 197.83 | 104.91 | 1.31 | 137.24 | 2.00 | 0.81 | 0.81 |
| 44.54 | 195.81 | 103.53 | 1.32 | 136.15 | 2.01 | 0.81 | 0.81 |
| 44.60 | 193.46 | 101.86 | 1.32 | 134.97 | 2.02 | 0.81 | 0.81 |
| 44.64 | 190.96 | 100.11 | 1.34 | 133.85 | 2.03 | 0.80 | 0.80 |
| 44.69 | 188.57 | 98.42 | 1.35 | 132.85 | 2.05 | 0.80 | 0.80 |
| 44.74 | 187.78 | 97.76 | 1.36 | 132.59 | 2.05 | 0.80 | 0.80 |
| 44.79 | 187.17 | 97.27 | 1.36 | 132.34 | 2.06 | 0.80 | 0.80 |
| 44.83 | 187.71 | 97.52 | 1.36 | 132.53 | 2.05 | 0.80 | 0.80 |
| 44.88 | 188.84 | 98.15 | 1.35 | 132.96 | 2.05 | 0.80 | 0.80 |
| 44.93 | 191.20 | 99.52 | 1.35 | 134.02 | 2.04 | 0.80 | 0.80 |
| 44.98 | 193.69 | 100.99 | 1.34 | 135.20 | 2.03 | 0.81 | 0.81 |
| 45.03 | 195.31 | 101.90 | 1.33 | 135.95 | 2.03 | 0.81 | 0.81 |
| 45.08 | 196.49 | 102.54 | 1.33 | 136.45 | 2.03 | 0.81 | 0.81 |
| 45.16 | 197.53 | 103.08 | 1.33 | 136.81 | 2.02 | 0.81 | 0.81 |
| 45.19 | 198.24 | 103.58 | 1.32 | 136.91 | 2.02 | 0.81 | 0.81 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 45.27 | 198.44 | 103.76 | 1.32 | 136.53 | 2.01 | 0.81 | 0.81 |
| 45.32 | 197.56 | 103.38 | 1.31 | 135.53 | 2.00 | 0.81 | 0.81 |
| 45.37 | 195.58 | 102.45 | 1.31 | 133.73 | 2.00 | 0.80 | 0.80 |
| 45.45 | 192.44 | 100.80 | 1.30 | 131.17 | 1.99 | 0.80 | 0.80 |
| 45.51 | 187.22 | 97.91 | 1.30 | 127.52 | 1.99 | 0.79 | 0.79 |
| 45.56 | 180.52 | 93.92 | 1.31 | 123.37 | 2.01 | 0.79 | 0.79 |
| 45.61 | 169.84 | 87.34 | 1.35 | 117.60 | 2.04 | 0.78 | 0.78 |
| 45.69 | 156.32 | 78.89 | 1.42 | 111.79 | 2.10 | 0.77 | 0.77 |
| 45.75 | 137.42 | 67.17 | 1.61 | 108.19 | 2.20 | 0.76 | 0.76 |
| 45.81 | 115.31 | 54.45 | 1.93 | 105.04 | 2.30 | 0.76 | 0.76 |
| 45.89 | 93.28 | 42.25 | 2.49 | 105.10 | 2.42 | 0.76 | 0.76 |
| 45.94 | 73.36 | 31.83 | 3.26 | 103.73 | 2.54 | 0.75 | 0.75 |
| 46.04 | 59.21 | 24.44 | 4.42 | 108.05 | 2.67 | 0.76 | 0.76 |
| 46.08 | 46.61 | 18.15 | 6.18 | 112.07 | 2.83 | 0.77 | 0.77 |
| 46.15 | 39.94 | 13.37 | 8.22 | 109.85 | 2.97 | 0.77 | 0.77 |
| 46.17 | 36.10 | 11.98 | 9.26 | 110.89 | 3.03 | 0.63 | 0.86 |
| 46.18 | 36.17 | 12.00 | 9.18 | 110.17 | 3.02 | 0.63 | 0.86 |
| 46.23 | 36.48 | 12.10 | 9.03 | 109.18 | 3.01 | 0.62 | 0.86 |
| 46.27 | 37.18 | 12.34 | 8.72 | 107.58 | 3.00 | 0.76 | 0.76 |
| 46.32 | 38.64 | 12.85 | 8.20 | 105.33 | 2.96 | 0.76 | 0.76 |
| 46.41 | 40.63 | 15.29 | 7.01 | 107.19 | 2.89 | 0.76 | 0.76 |
| 46.47 | 43.16 | 16.49 | 6.44 | 106.19 | 2.85 | 0.76 | 0.76 |
| 46.52 | 45.45 | 17.54 | 6.09 | 106.89 | 2.82 | 0.76 | 0.76 |
| 46.56 | 47.57 | 18.46 | 5.95 | 109.81 | 2.81 | 0.77 | 0.77 |
| 46.65 | 49.42 | 19.21 | 5.91 | 113.60 | 2.80 | 0.77 | 0.77 |
| 46.71 | 51.52 | 20.07 | 5.86 | 117.68 | 2.80 | 0.78 | 0.78 |
| 46.76 | 54.41 | 21.37 | 5.62 | 120.04 | 2.78 | 0.78 | 0.78 |
| 46.85 | 58.19 | 23.13 | 5.21 | 120.43 | 2.75 | 0.78 | 0.78 |
| 46.90 | 63.28 | 25.63 | 4.63 | 118.71 | 2.69 | 0.78 | 0.78 |
| 46.99 | 67.89 | 27.93 | 4.16 | 116.19 | 2.65 | 0.78 | 0.78 |
| 47.04 | 70.35 | 29.16 | 3.93 | 114.63 | 2.62 | 0.77 | 0.77 |
| 47.10 | 69.50 | 28.71 | 4.00 | 114.71 | 2.63 | 0.77 | 0.77 |
| 47.16 | 65.45 | 26.63 | 4.36 | 116.10 | 2.67 | 0.78 | 0.78 |
| 47.23 | 59.62 | 23.71 | 4.94 | 117.23 | 2.72 | 0.78 | 0.78 |
| 47.30 | 51.46 | 19.76 | 5.97 | 117.96 | 2.81 | 0.78 | 0.78 |
| 47.38 | 42.76 | 13.97 | 8.12 | 113.48 | 2.96 | 0.77 | 0.77 |
| 47.43 | 34.23 | 10.97 | 10.19 | 111.84 | 3.08 | 0.65 | 0.78 |
| 47.52 | 28.17 | 8.83 | 11.99 | 105.92 | 3.17 | 0.55 | 0.63 |
| 47.59 | 23.92 | 7.34 | 12.70 | 93.23 | 3.20 | 0.41 | 0.52 |
| 47.66 | 21.40 | 6.45 | 12.70 | 81.89 | 3.20 | 0.22 | 0.46 |
| 47.77 | 19.71 | 5.85 | 12.77 | 74.67 | 3.20 | 0.23 | 0.42 |
| 47.82 | 18.77 | 5.51 | 13.75 | 75.76 | 3.24 | 0.23 | 0.39 |
| 47.91 | 18.38 | 5.37 | 14.28 | 76.63 | 3.26 | 0.24 | 0.38 |
| 47.93 | 17.68 | 5.12 | 15.17 | 77.65 | 3.30 | 0.24 | 0.37 |
| 47.97 | 17.78 | 5.15 | 15.21 | 78.37 | 3.30 | 0.25 | 0.37 |
| 48.02 | 17.86 | 5.17 | 15.38 | 79.56 | 3.31 | 0.26 | 0.37 |
| 48.07 | 18.51 | 5.39 | 15.07 | 81.21 | 3.30 | 0.27 | 0.38 |
| 48.12 | 18.61 | 5.42 | 15.51 | 84.04 | 3.31 | 0.29 | 0.39 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 48.19 | 18.71 | 5.44 | 15.90 | 86.54 | 3.33 | 0.33 | 0.39 |
| 48.23 | 18.91 | 5.51 | 16.11 | 88.74 | 3.33 | 0.34 | 0.39 |
| 48.31 | 19.15 | 5.58 | 16.11 | 89.88 | 3.33 | 0.35 | 0.40 |
| 48.35 | 19.35 | 5.64 | 16.11 | 90.92 | 3.33 | 0.36 | 0.40 |
| 48.40 | 19.25 | 5.60 | 16.37 | 91.72 | 3.34 | 0.37 | 0.40 |
| 48.45 | 18.81 | 5.45 | 16.96 | 92.39 | 3.36 | 0.37 | 0.39 |
| 48.50 | 18.07 | 5.19 | 17.92 | 92.93 | 3.40 | 0.38 | 0.37 |
| 48.55 | 17.80 | 5.09 | 18.35 | 93.37 | 3.41 | 0.38 | 0.36 |
| 48.59 | 17.64 | 5.03 | 18.75 | 94.24 | 3.42 | 0.39 | 0.36 |
| 48.67 | 17.87 | 5.10 | 18.56 | 94.62 | 3.42 | 0.40 | 0.36 |
| 48.73 | 17.84 | 5.08 | 18.58 | 94.36 | 3.42 | 0.39 | 0.36 |
| 48.78 | 17.97 | 5.12 | 18.13 | 92.80 | 3.40 | 0.38 | 0.37 |
| 48.83 | 17.97 | 5.11 | 17.74 | 90.68 | 3.39 | 0.36 | 0.37 |
| 48.91 | 17.94 | 5.09 | 17.35 | 88.35 | 3.38 | 0.33 | 0.36 |
| 48.98 | 17.84 | 5.05 | 17.10 | 86.35 | 3.37 | 0.32 | 0.36 |
| 49.03 | 17.74 | 5.01 | 17.00 | 85.19 | 3.37 | 0.31 | 0.36 |
| 49.12 | 17.68 | 4.98 | 16.65 | 82.90 | 3.35 | 0.30 | 0.36 |
| 49.17 | 17.75 | 5.00 | 15.91 | 79.48 | 3.33 | 0.26 | 0.36 |
| 49.27 | 18.02 | 5.08 | 15.07 | 76.51 | 3.30 | 0.22 | 0.36 |
| 49.31 | 18.56 | 5.25 | 14.57 | 76.55 | 3.28 | 0.24 | 0.38 |
| 49.38 | 19.20 | 5.46 | 14.44 | 78.88 | 3.27 | 0.26 | 0.39 |
| 49.45 | 19.70 | 5.62 | 14.44 | 81.15 | 3.27 | 0.28 | 0.40 |
| 49.51 | 19.00 | 5.38 | 15.44 | 83.00 | 3.31 | 0.29 | 0.38 |
| 49.54 | 19.44 | 5.52 | 15.24 | 84.13 | 3.30 | 0.30 | 0.39 |
| 49.59 | 20.18 | 5.76 | 14.65 | 84.45 | 3.28 | 0.31 | 0.41 |
| 49.64 | 21.53 | 6.21 | 13.47 | 83.63 | 3.23 | 0.31 | 0.44 |
| 49.73 | 21.20 | 6.09 | 13.64 | 83.01 | 3.24 | 0.29 | 0.43 |
| 49.83 | 20.02 | 5.68 | 14.52 | 82.47 | 3.27 | 0.29 | 0.41 |
| 49.92 | 18.88 | 5.29 | 15.55 | 82.19 | 3.31 | 0.29 | 0.38 |
| 49.98 | 17.86 | 4.94 | 16.51 | 81.62 | 3.35 | 0.28 | 0.35 |
| 50.07 | 17.33 | 4.75 | 17.04 | 81.01 | 3.37 | 0.27 | 0.34 |
| 50.16 | 16.99 | 4.63 | 17.38 | 80.51 | 3.38 | 0.27 | 0.33 |
| 50.24 | 16.69 | 4.52 | 17.70 | 80.06 | 3.39 | 0.27 | 0.32 |
| 50.32 | 16.46 | 4.44 | 17.99 | 79.87 | 3.40 | 0.26 | 0.32 |
| 50.41 | 16.32 | 4.39 | 18.25 | 80.02 | 3.41 | 0.26 | 0.31 |
| 50.50 | 16.36 | 4.39 | 18.25 | 80.09 | 3.41 | 0.27 | 0.31 |
| 50.56 | 16.26 | 4.35 | 18.25 | 79.36 | 3.41 | 0.27 | 0.31 |
| 50.66 | 16.09 | 4.28 | 18.27 | 78.27 | 3.41 | 0.25 | 0.31 |
| 50.74 | 15.92 | 4.22 | 18.37 | 77.53 | 3.41 | 0.24 | 0.30 |
| 50.84 | 15.85 | 4.19 | 19.00 | 79.62 | 3.43 | 0.25 | 0.30 |
| 50.93 | 15.95 | 4.21 | 19.91 | 83.88 | 3.46 | 0.30 | 0.30 |
| 50.98 | 16.77 | 4.47 | 20.59 | 92.08 | 3.48 | 0.35 | 0.32 |
| 51.08 | 19.60 | 5.39 | 19.08 | 102.75 | 3.43 | 0.47 | 0.38 |
| 51.17 | 24.45 | 6.95 | 16.30 | 113.31 | 3.34 | 0.63 | 0.50 |
| 51.24 | 30.11 | 8.78 | 13.98 | 122.80 | 3.25 | 0.75 | 0.63 |
| 51.34 | 33.65 | 9.91 | 13.03 | 129.12 | 3.21 | 0.89 | 0.71 |
| 51.41 | 34.16 | 10.06 | 12.19 | 122.59 | 3.18 | 0.93 | 0.72 |
| 51.51 | 32.81 | 9.60 | 12.05 | 115.66 | 3.17 | 0.50 | 0.69 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 51.58 | 31.20 | 9.06 | 11.80 | 106.93 | 3.16 | 0.61 | 0.65 |
| 51.68 | 29.95 | 8.64 | 12.73 | 109.98 | 3.20 | 0.60 | 0.62 |
| 51.79 | 27.39 | 7.80 | 14.12 | 110.16 | 3.26 | 0.59 | 0.56 |
| 51.82 | 25.87 | 7.31 | 15.07 | 110.15 | 3.30 | 0.59 | 0.52 |
| 51.85 | 24.39 | 6.83 | 16.27 | 111.07 | 3.34 | 0.59 | 0.49 |
| 51.91 | 25.00 | 7.01 | 16.14 | 113.23 | 3.34 | 0.60 | 0.50 |
| 52.00 | 24.87 | 6.96 | 16.71 | 116.25 | 3.36 | 0.67 | 0.50 |
| 52.05 | 27.06 | 7.65 | 15.54 | 118.92 | 3.31 | 0.70 | 0.55 |
| 52.10 | 31.78 | 9.15 | 13.00 | 118.95 | 3.21 | 0.72 | 0.65 |
| 52.19 | 38.49 | 11.27 | 10.28 | 115.81 | 3.08 | 0.73 | 0.80 |
| 52.28 | 44.04 | 13.02 | 8.58 | 111.69 | 2.99 | 0.77 | 0.77 |
| 52.34 | 46.37 | 13.74 | 7.96 | 109.32 | 2.95 | 0.76 | 0.76 |
| 52.42 | 46.09 | 13.63 | 8.05 | 109.66 | 2.96 | 0.77 | 0.77 |
| 52.48 | 44.34 | 13.05 | 8.50 | 111.03 | 2.98 | 0.77 | 0.77 |
| 52.57 | 42.32 | 12.39 | 8.98 | 111.27 | 3.01 | 0.69 | 0.88 |
| 52.62 | 40.26 | 11.73 | 9.37 | 109.88 | 3.03 | 0.66 | 0.84 |
| 52.69 | 38.51 | 11.16 | 9.58 | 106.89 | 3.05 | 0.61 | 0.80 |
| 52.77 | 36.89 | 10.63 | 9.83 | 104.50 | 3.06 | 0.56 | 0.76 |
| 52.87 | 35.55 | 10.19 | 10.19 | 103.83 | 3.08 | 0.55 | 0.73 |
| 52.91 | 34.07 | 9.71 | 10.56 | 102.56 | 3.10 | 0.57 | 0.69 |
| 53.01 | 32.55 | 9.21 | 11.08 | 102.13 | 3.12 | 0.49 | 0.66 |
| 53.10 | 32.18 | 9.08 | 11.35 | 103.11 | 3.14 | 0.52 | 0.65 |
| 53.16 | 34.04 | 9.65 | 11.74 | 113.26 | 3.15 | 0.59 | 0.69 |
| 53.25 | 38.69 | 11.08 | 11.13 | 123.32 | 3.13 | 0.87 | 0.79 |
| 53.29 | 44.28 | 12.82 | 10.63 | 136.25 | 3.10 | 0.97 | 0.92 |
| 53.38 | 48.90 | 14.23 | 10.13 | 144.18 | 3.07 | 1.22 | 1.02 |
| 53.42 | 59.32 | 17.47 | 8.56 | 149.47 | 2.99 | 0.83 | 0.83 |
| 53.47 | 74.66 | 22.21 | 6.75 | 150.02 | 2.87 | 0.83 | 0.83 |
| 53.52 | 92.88 | 27.85 | 5.32 | 148.22 | 2.76 | 0.82 | 0.82 |
| 53.58 | 102.94 | 30.94 | 4.93 | 152.55 | 2.72 | 0.83 | 0.83 |
| 53.66 | 103.80 | 31.15 | 5.14 | 160.18 | 2.74 | 0.84 | 0.84 |
| 53.75 | 98.64 | 29.50 | 5.74 | 169.41 | 2.79 | 0.85 | 0.85 |
| 53.81 | 88.93 | 26.46 | 6.64 | 175.67 | 2.86 | 0.86 | 0.86 |
| 53.87 | 78.89 | 23.33 | 7.63 | 177.89 | 2.93 | 0.86 | 0.86 |
| 53.95 | 67.24 | 19.70 | 9.07 | 178.71 | 3.02 | 1.90 | 1.41 |
| 54.01 | 57.35 | 16.64 | 10.67 | 177.57 | 3.10 | 1.79 | 1.19 |
| 54.06 | 47.51 | 13.60 | 12.71 | 172.90 | 3.20 | 1.68 | 0.97 |
| 54.15 | 41.78 | 11.83 | 14.16 | 167.57 | 3.26 | 1.42 | 0.85 |
| 54.20 | 40.60 | 11.46 | 14.42 | 165.24 | 3.27 | 1.40 | 0.82 |
| 54.29 | 47.57 | 13.59 | 12.09 | 164.23 | 3.17 | 1.54 | 0.97 |
| 54.34 | 69.40 | 20.27 | 7.00 | 141.87 | 2.89 | 0.82 | 0.82 |
| 54.43 | 100.37 | 29.73 | 3.65 | 108.63 | 2.59 | 0.76 | 0.76 |
| 54.45 | 137.16 | 41.00 | 2.00 | 82.07 | 2.32 | 0.69 | 0.71 |
| 54.48 | 166.07 | 49.83 | 1.62 | 80.59 | 2.20 | 0.61 | 0.71 |
| 54.52 | 185.51 | 55.76 | 1.48 | 82.69 | 2.14 | 0.71 | 0.71 |
| 54.53 | 198.85 | 59.83 | 1.45 | 86.57 | 2.12 | 0.72 | 0.72 |
| 54.58 | 207.94 | 62.58 | 1.44 | 89.91 | 2.11 | 0.73 | 0.73 |
| 54.62 | 219.64 | 66.13 | 1.42 | 93.59 | 2.10 | 0.74 | 0.74 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 54.65 | 233.46 | 70.33 | 1.38 | 96.81 | 2.07 | 0.74 | 0.74 |
| 54.70 | 244.67 | 73.72 | 1.36 | 99.98 | 2.05 | 0.75 | 0.75 |
| 54.76 | 251.12 | 75.64 | 1.35 | 102.23 | 2.05 | 0.75 | 0.75 |
| 54.77 | 249.88 | 75.25 | 1.37 | 102.77 | 2.06 | 0.75 | 0.75 |
| 54.82 | 251.50 | 75.71 | 1.36 | 103.16 | 2.06 | 0.75 | 0.75 |
| 54.87 | 253.07 | 76.14 | 1.36 | 103.55 | 2.05 | 0.75 | 0.75 |
| 54.88 | 255.63 | 76.92 | 1.35 | 104.08 | 2.05 | 0.76 | 0.76 |
| 54.91 | 257.28 | 77.39 | 1.35 | 104.56 | 2.05 | 0.76 | 0.76 |
| 54.96 | 263.42 | 79.22 | 1.34 | 106.09 | 2.04 | 0.76 | 0.76 |
| 54.97 | 276.70 | 83.26 | 1.32 | 109.90 | 2.01 | 0.77 | 0.77 |
| 55.03 | 294.89 | 88.74 | 1.30 | 115.47 | 1.99 | 0.78 | 0.78 |
| 55.09 | 315.21 | 94.86 | 1.27 | 120.89 | 1.96 | 0.78 | 0.78 |
| 55.15 | 327.84 | 98.63 | 1.23 | 121.55 | 1.89 | 0.79 | 0.79 |
| 55.20 | 338.35 | 101.77 | 1.20 | 122.41 | 1.85 | 0.79 | 0.79 |
| 55.25 | 358.17 | 107.74 | 1.13 | 121.49 | 1.78 | 0.79 | 0.79 |
| 55.30 | 386.84 | 116.38 | 1.11 | 129.28 | 1.77 | 0.80 | 0.80 |
| 55.34 | 417.50 | 125.63 | 1.07 | 134.62 | 1.74 | 0.81 | 0.81 |
| 55.39 | 440.05 | 132.40 | 1.10 | 146.03 | 1.76 | 0.82 | 0.82 |
| 55.40 | 462.28 | 139.13 | 1.10 | 153.71 | 1.76 | 0.83 | 0.83 |
| 55.44 | 482.80 | 145.29 | 1.08 | 157.35 | 1.75 | 0.84 | 0.84 |
| 55.44 | 511.21 | 153.88 | 1.02 | 157.04 | 1.72 | 0.84 | 0.84 |
| 55.49 | 517.76 | 155.78 | 1.03 | 160.78 | 1.72 | 0.84 | 0.84 |
| 55.54 | 533.43 | 160.44 | 1.05 | 167.71 | 1.73 | 0.85 | 0.85 |
| 55.59 | 534.98 | 160.82 | 1.10 | 176.17 | 1.76 | 0.86 | 0.86 |
| 55.63 | 551.08 | 165.61 | 1.09 | 180.34 | 1.75 | 0.86 | 0.86 |
| 55.64 | 553.47 | 166.31 | 1.09 | 180.79 | 1.75 | 0.87 | 0.87 |
| 55.68 | 566.94 | 170.31 | 1.06 | 179.92 | 1.73 | 0.86 | 0.86 |
| 55.69 | 570.38 | 171.33 | 1.04 | 178.50 | 1.73 | 0.86 | 0.86 |
| 55.69 | 566.17 | 170.04 | 1.05 | 179.38 | 1.73 | 0.86 | 0.86 |
| 55.71 | 561.62 | 168.63 | 1.09 | 183.08 | 1.75 | 0.87 | 0.87 |
| 55.76 | 567.28 | 170.25 | 1.10 | 186.45 | 1.76 | 0.87 | 0.87 |
| 55.78 | 580.19 | 174.11 | 1.08 | 187.85 | 1.75 | 0.87 | 0.87 |
| 55.81 | 581.23 | 174.36 | 1.04 | 180.96 | 1.72 | 0.87 | 0.87 |
| 55.85 | 584.16 | 175.16 | 1.00 | 175.16 | 1.69 | 0.86 | 0.86 |
| 55.86 | 588.34 | 176.41 | 1.00 | 176.41 | 1.65 | 0.86 | 0.86 |
| 55.91 | 598.65 | 179.42 | 1.00 | 179.42 | 1.62 | 0.86 | 0.86 |
| 55.92 | 602.25 | 180.48 | 1.00 | 180.48 | 1.60 | 0.87 | 0.87 |
| 55.96 | 619.03 | 185.46 | 1.00 | 185.46 | 1.58 | 0.87 | 0.87 |
| 55.97 | 634.09 | 189.98 | 1.00 | 189.98 | 1.57 | 0.88 | 0.88 |
| 56.00 | 654.37 | 196.01 | 1.00 | 196.01 | 1.56 | 0.88 | 0.88 |
| 56.01 | 660.12 | 197.72 | 1.00 | 197.72 | 1.58 | 0.88 | 0.88 |
| 56.03 | 661.79 | 198.18 | 1.00 | 198.18 | 1.59 | 0.88 | 0.88 |
| 56.05 | 661.82 | 198.14 | 1.00 | 198.14 | 1.60 | 0.88 | 0.88 |
| 56.10 | 665.04 | 198.99 | 1.00 | 198.99 | 1.60 | 0.89 | 0.89 |
| 56.12 | 668.02 | 199.86 | 1.00 | 199.86 | 1.58 | 0.89 | 0.89 |
| 56.16 | 667.69 | 199.67 | 1.00 | 199.67 | 1.57 | 0.89 | 0.89 |
| 56.17 | 654.78 | 195.76 | 1.00 | 195.76 | 1.57 | 0.88 | 0.88 |
| 56.20 | 635.11 | 189.78 | 1.00 | 189.78 | 1.59 | 0.88 | 0.88 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 56.22 | 617.48 | 184.46 | 1.00 | 184.46 | 1.61 | 0.87 | 0.87 |
| 56.24 | 608.45 | 181.69 | 1.00 | 181.69 | 1.61 | 0.87 | 0.87 |
| 56.30 | 602.69 | 179.84 | 1.00 | 179.84 | 1.62 | 0.86 | 0.86 |
| 56.31 | 595.69 | 177.72 | 1.00 | 177.72 | 1.63 | 0.86 | 0.86 |
| 56.34 | 586.22 | 174.82 | 1.00 | 174.82 | 1.65 | 0.86 | 0.86 |
| 56.39 | 579.04 | 172.57 | 1.00 | 172.57 | 1.66 | 0.86 | 0.86 |
| 56.45 | 572.30 | 170.44 | 1.00 | 170.44 | 1.67 | 0.85 | 0.85 |
| 56.48 | 565.39 | 168.31 | 1.00 | 168.31 | 1.67 | 0.85 | 0.85 |
| 56.49 | 555.45 | 165.32 | 1.00 | 165.32 | 1.70 | 0.85 | 0.85 |
| 56.53 | 542.15 | 161.25 | 1.05 | 168.57 | 1.73 | 0.85 | 0.85 |
| 56.58 | 529.04 | 157.24 | 1.08 | 169.38 | 1.75 | 0.85 | 0.85 |
| 56.63 | 524.73 | 155.86 | 1.00 | 155.86 | 1.67 | 0.83 | 0.83 |
| 56.68 | 526.01 | 156.17 | 1.00 | 156.17 | 1.58 | 0.84 | 0.84 |
| 56.73 | 531.33 | 157.68 | 1.00 | 157.68 | 1.53 | 0.84 | 0.84 |
| 56.78 | 526.31 | 156.09 | 1.00 | 156.09 | 1.62 | 0.84 | 0.84 |
| 56.83 | 517.99 | 153.53 | 1.00 | 153.53 | 1.69 | 0.83 | 0.83 |
| 56.89 | 503.37 | 149.05 | 1.06 | 157.35 | 1.73 | 0.84 | 0.84 |
| 56.95 | 485.04 | 143.50 | 1.12 | 160.76 | 1.77 | 0.84 | 0.84 |
| 56.99 | 470.25 | 139.02 | 1.16 | 161.37 | 1.81 | 0.84 | 0.84 |
| 57.01 | 460.92 | 136.23 | 1.18 | 160.98 | 1.83 | 0.84 | 0.84 |
| 57.04 | 461.73 | 136.41 | 1.18 | 160.65 | 1.82 | 0.84 | 0.84 |
| 57.09 | 468.20 | 138.26 | 1.17 | 161.13 | 1.81 | 0.84 | 0.84 |
| 57.11 | 477.43 | 140.98 | 1.16 | 163.57 | 1.81 | 0.84 | 0.84 |
| 57.13 | 488.62 | 144.26 | 1.16 | 167.47 | 1.81 | 0.85 | 0.85 |
| 57.18 | 488.78 | 144.24 | 1.17 | 169.44 | 1.82 | 0.85 | 0.85 |
| 57.19 | 477.80 | 140.96 | 1.20 | 168.95 | 1.85 | 0.85 | 0.85 |
| 57.21 | 464.47 | 136.96 | 1.21 | 166.30 | 1.87 | 0.85 | 0.85 |
| 57.24 | 456.12 | 134.45 | 1.22 | 164.00 | 1.88 | 0.85 | 0.85 |
| 57.28 | 456.72 | 134.56 | 1.21 | 163.35 | 1.87 | 0.84 | 0.84 |
| 57.32 | 450.91 | 132.78 | 1.22 | 161.45 | 1.87 | 0.84 | 0.84 |
| 57.35 | 445.39 | 131.08 | 1.22 | 160.03 | 1.88 | 0.84 | 0.84 |
| 57.38 | 435.59 | 128.14 | 1.23 | 157.50 | 1.89 | 0.84 | 0.84 |
| 57.43 | 430.50 | 126.56 | 1.23 | 155.53 | 1.89 | 0.83 | 0.83 |
| 57.48 | 414.66 | 121.80 | 1.23 | 150.26 | 1.90 | 0.83 | 0.83 |
| 57.52 | 398.59 | 116.98 | 1.23 | 143.92 | 1.89 | 0.82 | 0.82 |
| 57.57 | 389.56 | 114.25 | 1.25 | 142.28 | 1.91 | 0.82 | 0.82 |
| 57.62 | 396.66 | 116.29 | 1.26 | 146.53 | 1.94 | 0.82 | 0.82 |
| 57.68 | 427.50 | 125.32 | 1.25 | 157.03 | 1.92 | 0.84 | 0.84 |
| 57.76 | 462.23 | 135.46 | 1.23 | 166.00 | 1.88 | 0.85 | 0.85 |
| 57.81 | 505.50 | 148.16 | 1.09 | 161.17 | 1.75 | 0.84 | 0.84 |
| 57.86 | 543.58 | 159.31 | 1.00 | 159.31 | 1.63 | 0.84 | 0.84 |
| 57.89 | 572.52 | 167.80 | 1.00 | 167.80 | 1.49 | 0.85 | 0.85 |
| 57.91 | 583.54 | 171.02 | 1.00 | 171.02 | 1.48 | 0.85 | 0.85 |
| 57.92 | 577.13 | 169.11 | 1.00 | 169.11 | 1.50 | 0.85 | 0.85 |
| 57.95 | 569.05 | 166.67 | 1.00 | 166.67 | 1.54 | 0.85 | 0.85 |
| 57.99 | 570.66 | 167.08 | 1.00 | 167.08 | 1.56 | 0.85 | 0.85 |
| 58.01 | 578.72 | 169.42 | 1.00 | 169.42 | 1.57 | 0.85 | 0.85 |
| 58.05 | 591.19 | 173.02 | 1.00 | 173.02 | 1.58 | 0.86 | 0.86 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 58.05 | 598.87 | 175.27 | 1.00 | 175.27 | 1.59 | 0.86 | 0.86 |
| 58.10 | 604.77 | 176.91 | 1.00 | 176.91 | 1.60 | 0.86 | 0.86 |
| 58.13 | 611.17 | 178.73 | 1.00 | 178.73 | 1.60 | 0.86 | 0.86 |
| 58.15 | 618.51 | 180.87 | 1.00 | 180.87 | 1.60 | 0.87 | 0.87 |
| 58.17 | 625.12 | 182.75 | 1.00 | 182.75 | 1.59 | 0.87 | 0.87 |
| 58.20 | 623.43 | 182.21 | 1.00 | 182.21 | 1.59 | 0.87 | 0.87 |
| 58.21 | 619.40 | 181.00 | 1.00 | 181.00 | 1.60 | 0.87 | 0.87 |
| 58.21 | 614.30 | 179.50 | 1.00 | 179.50 | 1.61 | 0.86 | 0.86 |
| 58.23 | 613.93 | 179.34 | 1.00 | 179.34 | 1.61 | 0.86 | 0.86 |
| 58.24 | 608.11 | 177.62 | 1.00 | 177.62 | 1.62 | 0.86 | 0.86 |
| 58.25 | 609.21 | 177.92 | 1.00 | 177.92 | 1.54 | 0.86 | 0.86 |
| 58.29 | 613.99 | 179.26 | 1.00 | 179.26 | 1.44 | 0.86 | 0.86 |
| 58.31 | 627.24 | 183.11 | 1.00 | 183.11 | 1.32 | 0.87 | 0.87 |
| 58.33 | 639.00 | 186.52 | 1.00 | 186.52 | 1.34 | 0.87 | 0.87 |
| 58.38 | 651.36 | 190.06 | 1.00 | 190.06 | 1.37 | 0.88 | 0.88 |
| 58.39 | 661.87 | 193.13 | 1.00 | 193.13 | 1.39 | 0.88 | 0.88 |
| 58.43 | 670.53 | 195.59 | 1.00 | 195.59 | 1.40 | 0.88 | 0.88 |
| 58.43 | 682.73 | 199.15 | 1.00 | 199.15 | 1.39 | 0.89 | 0.89 |
| 58.48 | 688.02 | 200.60 | 1.00 | 200.60 | 1.40 | 0.89 | 0.89 |
| 58.53 | 694.39 | 202.36 | 1.00 | 202.36 | 1.41 | 0.89 | 0.89 |
| 58.56 | 696.37 | 202.90 | 1.00 | 202.90 | 1.46 | 0.89 | 0.89 |
| 58.58 | 704.43 | 205.20 | 1.00 | 205.20 | 1.47 | 0.89 | 0.89 |
| 58.59 | 710.90 | 207.06 | 1.00 | 207.06 | 1.49 | 0.89 | 0.89 |
| 58.63 | 707.18 | 205.90 | 1.00 | 205.90 | 1.49 | 0.89 | 0.89 |
| 58.63 | 709.20 | 206.49 | 1.00 | 206.49 | 1.50 | 0.89 | 0.89 |
| 58.63 | 695.36 | 202.42 | 1.00 | 202.42 | 1.51 | 0.89 | 0.89 |
| 58.68 | 700.19 | 203.74 | 1.00 | 203.74 | 1.49 | 0.89 | 0.89 |
| 58.69 | 701.88 | 204.22 | 1.00 | 204.22 | 1.45 | 0.89 | 0.89 |
| 58.72 | 717.85 | 208.81 | 1.00 | 208.81 | 1.40 | 0.90 | 0.90 |
| 58.73 | 722.94 | 210.28 | 1.00 | 210.28 | 1.38 | 0.90 | 0.90 |
| 58.74 | 728.64 | 211.92 | 1.00 | 211.92 | 1.41 | 0.90 | 0.90 |
| 58.77 | 726.96 | 211.36 | 1.00 | 211.36 | 1.44 | 0.90 | 0.90 |
| 58.81 | 722.67 | 210.02 | 1.00 | 210.02 | 1.47 | 0.90 | 0.90 |
| 58.82 | 713.94 | 207.44 | 1.00 | 207.44 | 1.49 | 0.89 | 0.89 |
| 58.83 | 715.80 | 207.97 | 1.00 | 207.97 | 1.51 | 0.90 | 0.90 |
| 58.87 | 722.33 | 209.78 | 1.00 | 209.78 | 1.52 | 0.90 | 0.90 |
| 58.91 | 731.67 | 212.41 | 1.00 | 212.41 | 1.53 | 0.90 | 0.90 |
| 58.92 | 737.87 | 214.21 | 1.00 | 214.21 | 1.54 | 0.90 | 0.90 |
| 58.93 | 740.53 | 214.95 | 1.00 | 214.95 | 1.53 | 0.90 | 0.90 |
| 58.96 | 739.05 | 214.44 | 1.00 | 214.44 | 1.53 | 0.90 | 0.90 |
| 59.01 | 716.31 | 207.70 | 1.00 | 207.70 | 1.56 | 0.89 | 0.89 |
| 59.06 | 687.29 | 199.13 | 1.00 | 199.13 | 1.59 | 0.89 | 0.89 |
| 59.08 | 655.28 | 189.77 | 1.00 | 189.77 | 1.63 | 0.88 | 0.88 |
| 59.11 | 638.94 | 184.95 | 1.00 | 184.95 | 1.65 | 0.87 | 0.87 |
| 59.15 | 627.21 | 181.46 | 1.00 | 181.46 | 1.68 | 0.87 | 0.87 |
| 59.21 | 618.28 | 178.75 | 1.00 | 178.75 | 1.70 | 0.86 | 0.86 |
| 59.26 | 606.09 | 175.11 | 1.02 | 178.89 | 1.72 | 0.86 | 0.86 |
| 59.30 | 592.31 | 171.02 | 1.01 | 173.20 | 1.71 | 0.86 | 0.86 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 59.35 | 579.87 | 167.32 | 1.01 | 169.07 | 1.71 | 0.85 | 0.85 |
| 59.40 | 562.76 | 162.26 | 1.04 | 168.73 | 1.73 | 0.85 | 0.85 |
| 59.42 | 550.96 | 158.81 | 1.06 | 168.34 | 1.74 | 0.85 | 0.85 |
| 59.47 | 539.34 | 155.35 | 1.08 | 167.78 | 1.75 | 0.85 | 0.85 |
| 59.51 | 539.41 | 155.29 | 1.09 | 168.63 | 1.75 | 0.85 | 0.85 |
| 59.56 | 537.97 | 154.79 | 1.09 | 168.59 | 1.75 | 0.85 | 0.85 |
| 59.61 | 537.36 | 154.53 | 1.06 | 164.50 | 1.74 | 0.85 | 0.85 |
| 59.67 | 541.98 | 155.77 | 1.00 | 155.77 | 1.70 | 0.83 | 0.83 |
| 59.71 | 553.73 | 159.11 | 1.00 | 159.11 | 1.65 | 0.84 | 0.84 |
| 59.80 | 555.82 | 159.56 | 1.00 | 159.56 | 1.61 | 0.84 | 0.84 |
| 59.85 | 552.45 | 158.50 | 1.00 | 158.50 | 1.59 | 0.84 | 0.84 |
| 59.90 | 542.21 | 155.47 | 1.00 | 155.47 | 1.59 | 0.83 | 0.83 |
| 60.00 | 542.99 | 155.53 | 1.00 | 155.53 | 1.59 | 0.83 | 0.83 |
| 60.04 | 541.71 | 155.09 | 1.00 | 155.09 | 1.60 | 0.83 | 0.83 |
| 60.10 | 526.52 | 150.62 | 1.00 | 150.62 | 1.63 | 0.83 | 0.83 |
| 60.15 | 508.32 | 145.30 | 1.00 | 145.30 | 1.67 | 0.82 | 0.82 |
| 60.19 | 487.40 | 139.22 | 1.00 | 139.22 | 1.70 | 0.81 | 0.81 |
| 60.23 | 483.49 | 138.03 | 1.00 | 138.03 | 1.69 | 0.81 | 0.81 |
| 60.28 | 482.61 | 137.71 | 1.00 | 137.71 | 1.68 | 0.81 | 0.81 |
| 60.33 | 488.98 | 139.47 | 1.00 | 139.47 | 1.67 | 0.81 | 0.81 |
| 60.38 | 491.97 | 140.26 | 1.00 | 140.26 | 1.67 | 0.81 | 0.81 |
| 60.42 | 493.85 | 140.74 | 1.00 | 140.74 | 1.69 | 0.81 | 0.81 |
| 60.44 | 487.18 | 138.79 | 1.01 | 140.24 | 1.71 | 0.81 | 0.81 |
| 60.47 | 475.94 | 135.53 | 1.08 | 145.72 | 1.74 | 0.82 | 0.82 |
| 60.52 | 465.53 | 132.47 | 1.12 | 148.94 | 1.78 | 0.83 | 0.83 |
| 60.56 | 462.70 | 131.60 | 1.15 | 150.90 | 1.79 | 0.83 | 0.83 |
| 60.57 | 465.03 | 132.25 | 1.15 | 151.48 | 1.79 | 0.83 | 0.83 |
| 60.61 | 470.62 | 133.80 | 1.13 | 151.48 | 1.78 | 0.83 | 0.83 |
| 60.66 | 477.29 | 135.64 | 1.12 | 151.98 | 1.77 | 0.83 | 0.83 |
| 60.71 | 486.66 | 138.25 | 1.11 | 153.21 | 1.77 | 0.83 | 0.83 |
| 60.76 | 495.25 | 140.63 | 1.11 | 156.59 | 1.77 | 0.84 | 0.84 |
| 60.81 | 504.76 | 143.27 | 1.11 | 159.58 | 1.77 | 0.84 | 0.84 |
| 60.86 | 523.05 | 148.43 | 1.08 | 161.02 | 1.75 | 0.84 | 0.84 |
| 60.91 | 559.78 | 158.84 | 1.00 | 158.84 | 1.70 | 0.84 | 0.84 |
| 60.95 | 601.50 | 170.69 | 1.00 | 170.69 | 1.66 | 0.85 | 0.85 |
| 61.00 | 637.66 | 180.91 | 1.00 | 180.91 | 1.64 | 0.87 | 0.87 |
| 61.02 | 657.74 | 186.60 | 1.00 | 186.60 | 1.64 | 0.87 | 0.87 |
| 61.05 | 685.10 | 194.34 | 1.00 | 194.34 | 1.62 | 0.88 | 0.88 |
| 61.08 | 710.24 | 201.44 | 1.00 | 201.44 | 1.61 | 0.89 | 0.89 |
| 61.09 | 731.84 | 207.57 | 1.00 | 207.57 | 1.59 | 0.89 | 0.89 |
| 61.13 | 737.94 | 209.24 | 1.00 | 209.24 | 1.59 | 0.90 | 0.90 |
| 61.14 | 739.46 | 209.63 | 1.00 | 209.63 | 1.60 | 0.90 | 0.90 |
| 61.16 | 741.44 | 210.15 | 1.00 | 210.15 | 1.60 | 0.90 | 0.90 |
| 61.20 | 750.88 | 212.77 | 1.00 | 212.77 | 1.58 | 0.90 | 0.90 |
| 61.23 | 762.13 | 215.88 | 1.00 | 215.88 | 1.56 | 0.90 | 0.90 |
| 61.24 | 766.92 | 217.23 | 1.00 | 217.23 | 1.52 | 0.90 | 0.90 |
| 61.29 | 758.86 | 214.83 | 1.00 | 214.83 | 1.51 | 0.90 | 0.90 |
| 61.30 | 744.24 | 210.65 | 1.00 | 210.65 | 1.52 | 0.90 | 0.90 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 61.33 | 734.57 | 207.82 | 1.00 | 207.82 | 1.55 | 0.90 | 0.90 |
| 61.38 | 730.90 | 206.66 | 1.00 | 206.66 | 1.55 | 0.89 | 0.89 |
| 61.43 | 731.07 | 206.60 | 1.00 | 206.60 | 1.53 | 0.89 | 0.89 |
| 61.48 | 738.25 | 208.54 | 1.00 | 208.54 | 1.50 | 0.90 | 0.90 |
| 61.53 | 750.91 | 212.02 | 1.00 | 212.02 | 1.48 | 0.90 | 0.90 |
| 61.56 | 754.78 | 213.05 | 1.00 | 213.05 | 1.48 | 0.90 | 0.90 |
| 61.58 | 726.93 | 205.10 | 1.00 | 205.10 | 1.50 | 0.89 | 0.89 |
| 61.59 | 702.39 | 198.13 | 1.00 | 198.13 | 1.52 | 0.88 | 0.88 |
| 61.62 | 600.70 | 169.24 | 1.00 | 169.24 | 1.61 | 0.85 | 0.85 |
| 61.63 | 595.30 | 167.67 | 1.00 | 167.67 | 1.61 | 0.85 | 0.85 |
| 61.67 | 588.36 | 165.65 | 1.00 | 165.65 | 1.62 | 0.85 | 0.85 |
| 61.71 | 662.66 | 186.61 | 1.00 | 186.61 | 1.55 | 0.87 | 0.87 |
| 61.76 | 655.52 | 184.50 | 1.00 | 184.50 | 1.55 | 0.87 | 0.87 |
| 61.81 | 634.02 | 178.32 | 1.00 | 178.32 | 1.54 | 0.86 | 0.86 |
| 61.86 | 615.02 | 172.85 | 1.00 | 172.85 | 1.52 | 0.86 | 0.86 |
| 61.87 | 600.83 | 168.83 | 1.00 | 168.83 | 1.48 | 0.85 | 0.85 |
| 61.91 | 588.87 | 165.39 | 1.00 | 165.39 | 1.44 | 0.85 | 0.85 |
| 61.95 | 578.02 | 162.25 | 1.00 | 162.25 | 1.42 | 0.84 | 0.84 |
| 61.96 | 566.74 | 159.04 | 1.00 | 159.04 | 1.42 | 0.84 | 0.84 |
| 62.00 | 553.70 | 155.30 | 1.00 | 155.30 | 1.45 | 0.83 | 0.83 |
| 62.04 | 535.16 | 150.01 | 1.00 | 150.01 | 1.49 | 0.83 | 0.83 |
| 62.06 | 510.97 | 143.15 | 1.00 | 143.15 | 1.55 | 0.82 | 0.82 |
| 62.10 | 491.66 | 137.65 | 1.00 | 137.65 | 1.60 | 0.81 | 0.81 |
| 62.14 | 475.52 | 133.04 | 1.00 | 133.04 | 1.64 | 0.80 | 0.80 |
| 62.20 | 463.08 | 129.46 | 1.00 | 129.46 | 1.66 | 0.80 | 0.80 |
| 62.22 | 439.20 | 122.70 | 1.00 | 122.70 | 1.71 | 0.79 | 0.79 |
| 62.27 | 415.48 | 115.96 | 1.08 | 125.13 | 1.75 | 0.79 | 0.79 |
| 62.29 | 396.37 | 110.55 | 1.13 | 125.44 | 1.78 | 0.79 | 0.79 |
| 62.34 | 380.26 | 105.96 | 1.17 | 124.22 | 1.82 | 0.79 | 0.79 |
| 62.39 | 366.62 | 102.08 | 1.21 | 123.46 | 1.86 | 0.79 | 0.79 |
| 62.43 | 347.78 | 96.73 | 1.26 | 121.51 | 1.93 | 0.79 | 0.79 |
| 62.49 | 340.13 | 94.52 | 1.28 | 121.38 | 1.97 | 0.79 | 0.79 |
| 62.57 | 336.43 | 93.40 | 1.30 | 121.70 | 1.99 | 0.79 | 0.79 |
| 62.68 | 357.18 | 99.12 | 1.29 | 127.79 | 1.98 | 0.80 | 0.80 |
| 62.75 | 398.26 | 110.56 | 1.26 | 139.12 | 1.93 | 0.81 | 0.81 |
| 62.87 | 426.23 | 118.25 | 1.24 | 146.86 | 1.91 | 0.82 | 0.82 |
| 62.88 | 409.21 | 113.48 | 1.25 | 142.25 | 1.93 | 0.82 | 0.82 |
| 62.89 | 424.34 | 117.70 | 1.21 | 142.29 | 1.86 | 0.82 | 0.82 |
| 62.93 | 485.42 | 134.75 | 1.06 | 142.80 | 1.74 | 0.82 | 0.82 |
| 62.98 | 571.92 | 158.87 | 1.00 | 158.87 | 1.61 | 0.84 | 0.84 |
| 63.02 | 620.24 | 172.30 | 1.00 | 172.30 | 1.47 | 0.86 | 0.86 |
| 63.07 | 658.55 | 182.93 | 1.00 | 182.93 | 1.31 | 0.87 | 0.87 |
| 63.12 | 710.78 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 63.14 | 752.36 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 63.17 | 781.30 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 63.17 | 799.36 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 63.20 | 825.98 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 63.21 | 830.83 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |

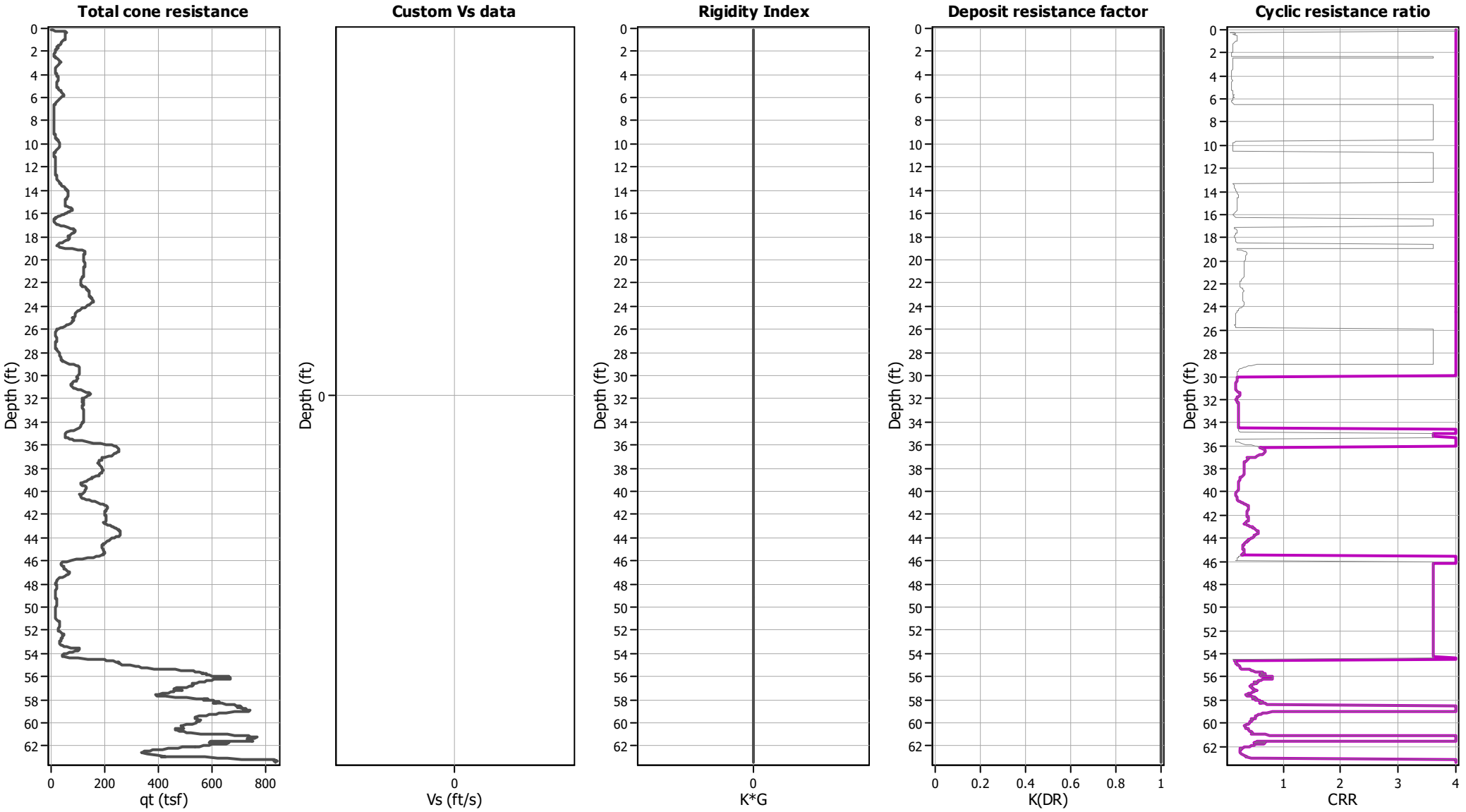
**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 63.23 | 842.91 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 63.26 | 834.75 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 63.28 | 841.52 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 63.31 | 838.10 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 63.32 | 839.38 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 63.36 | 837.12 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 63.40 | 836.85 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |

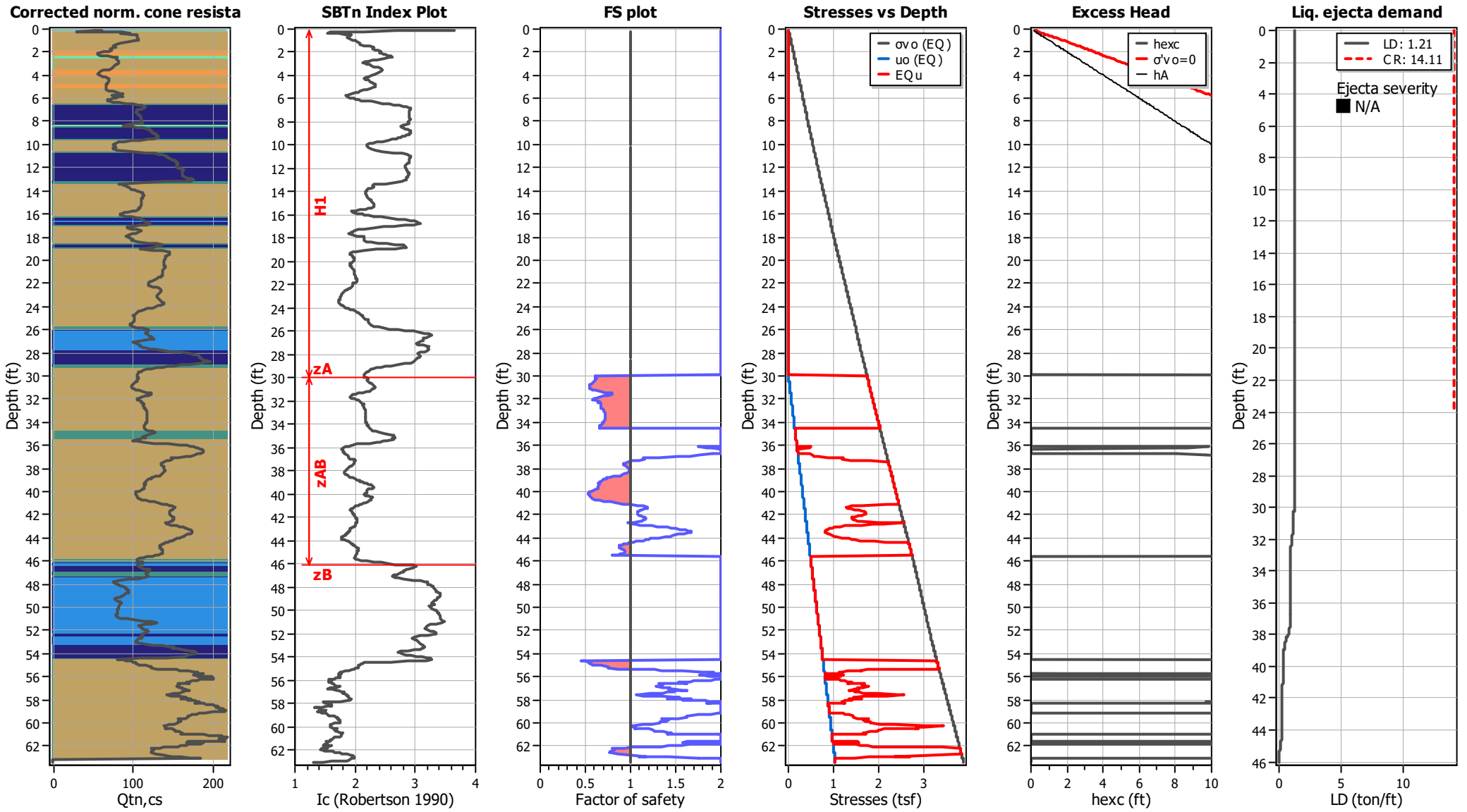
**Abbreviations**

$q_t$: Total cone resistance
$K_c$: Cone resistance correction factor due to fines
$Q_{tn,cs}$: Adjusted and corrected cone resistance due to fines
$I_c$: Soil behavior type index
$S_{u(liq)}/\sigma'_v$: Calculated liquefied undrained strength ratio
$S_{u(peak)}/\sigma'_v$: Calculated peak undrained strength ratio

## Aging Calculation Estimation



## Ejecta Severity Estimation



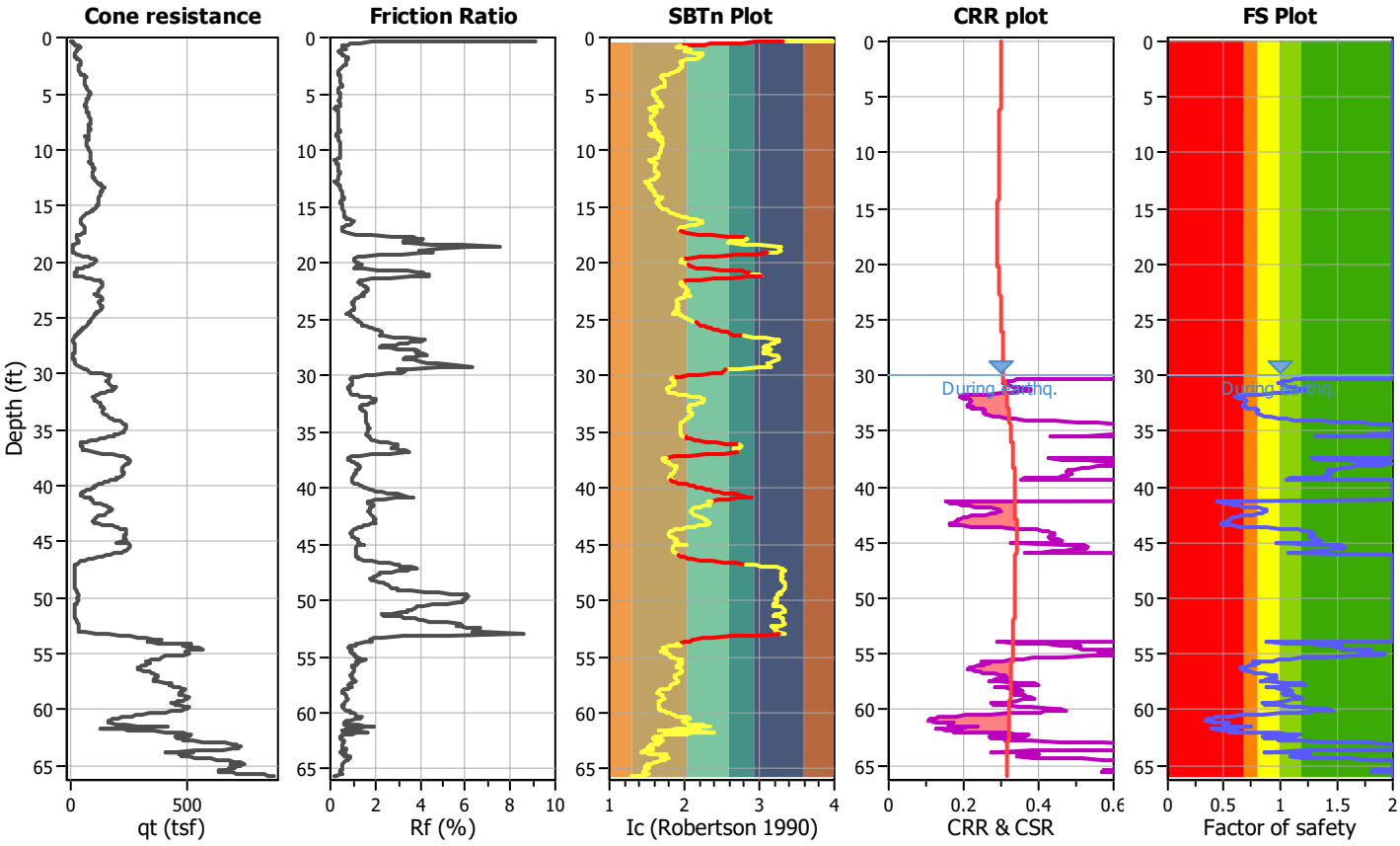
## LIQUEFACTION ANALYSIS REPORT

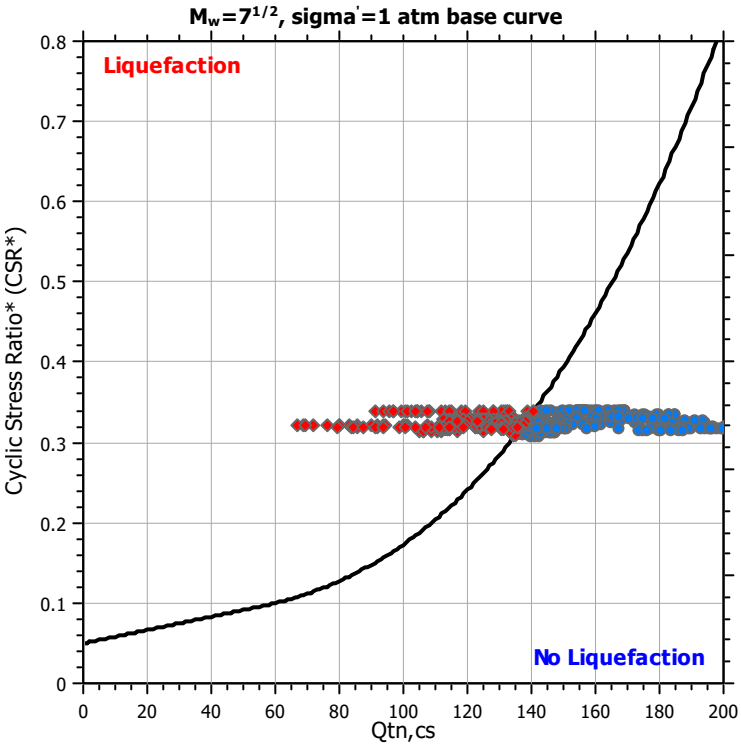
**Project title : W1857-88-01** **Location : 331 The City Drive S**

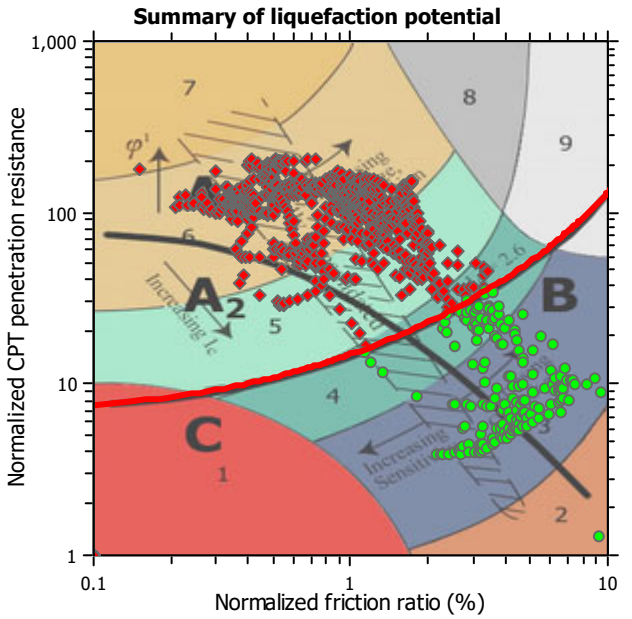
**CPT file : CPT-2**

**Input parameters and analysis data**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 54.00 ft | Use fill: | No | Clay like behavior applied: | Sands only |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 30.00 ft | Fill height: | N/A | Limit depth applied: | No |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth: | N/A |
| Earthquake magnitude $M_w$: | 6.65 | Ic cut-off value: | 2.60 | Trans. detect. applied: | Yes | MSF method: | Method based |
| Peak ground acceleration: | 0.63 | Unit weight calculation: | Based on SBT | $K_\sigma$ applied: | Yes | | |

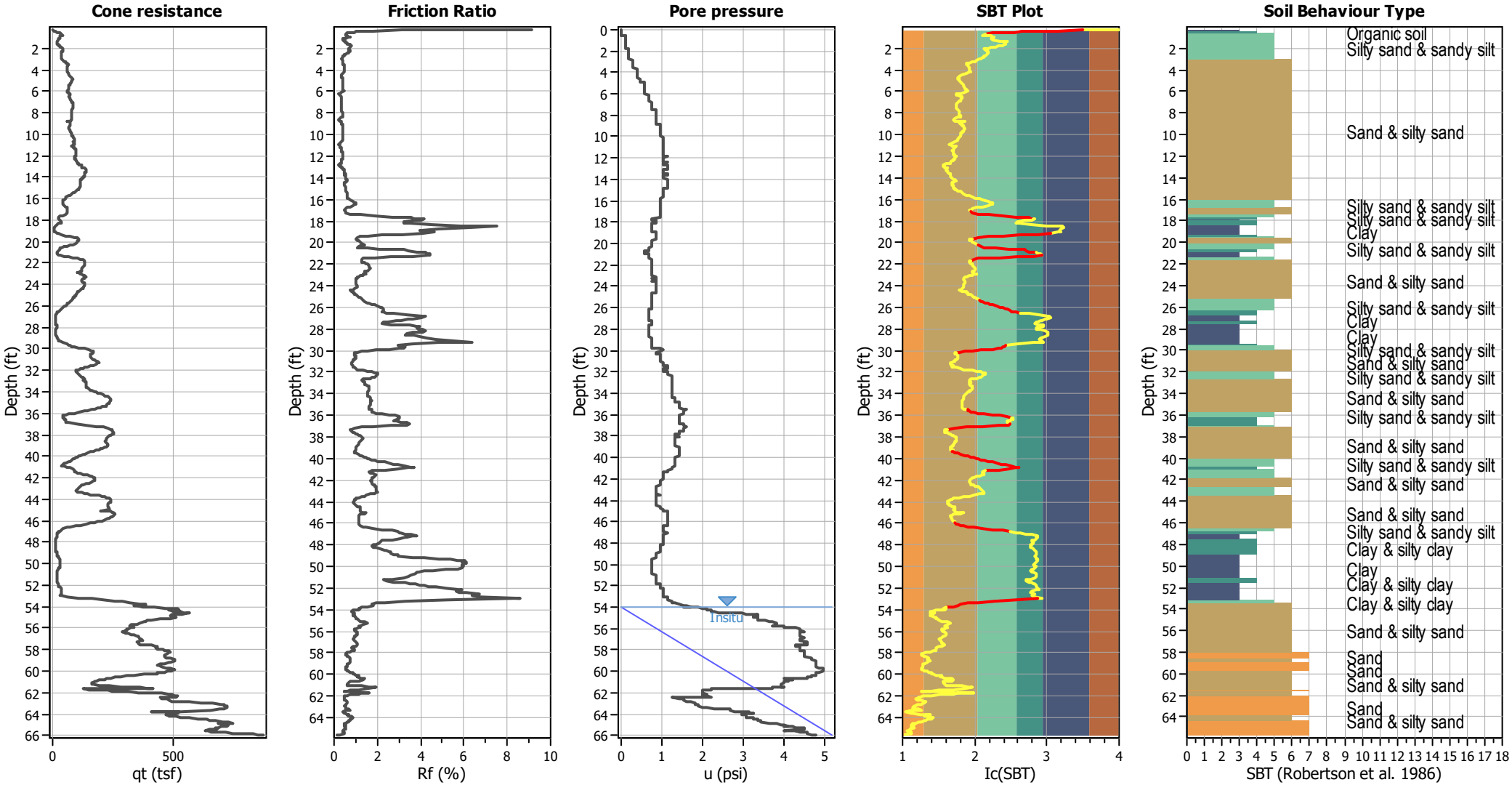



Zone $A_1$: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone $A_2$: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

# CPT basic interpretation plots



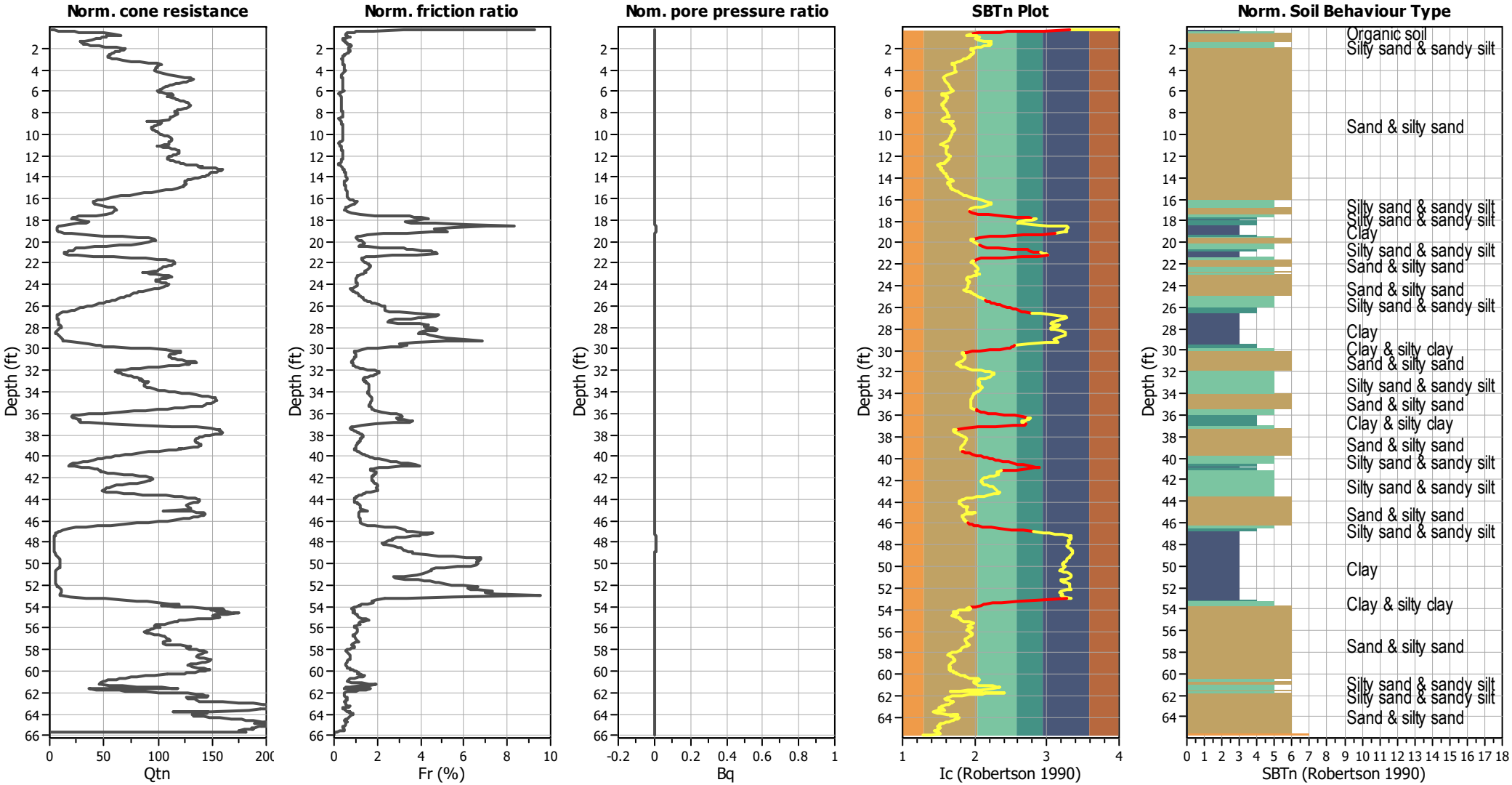

## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.65 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.63 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

**SBT legend**

| | | |
|---|---|---|
| 1. Sensitive fine grained | 4. Clayey silt to silty | 7. Gravely sand to sand |
| 2. Organic material | 5. Silty sand to sandy silt | 8. Very stiff sand to |
| 3. Clay to silty clay | 6. Clean sand to silty sand | 9. Very stiff fine grained |

# CPT basic interpretation plots (normalized)



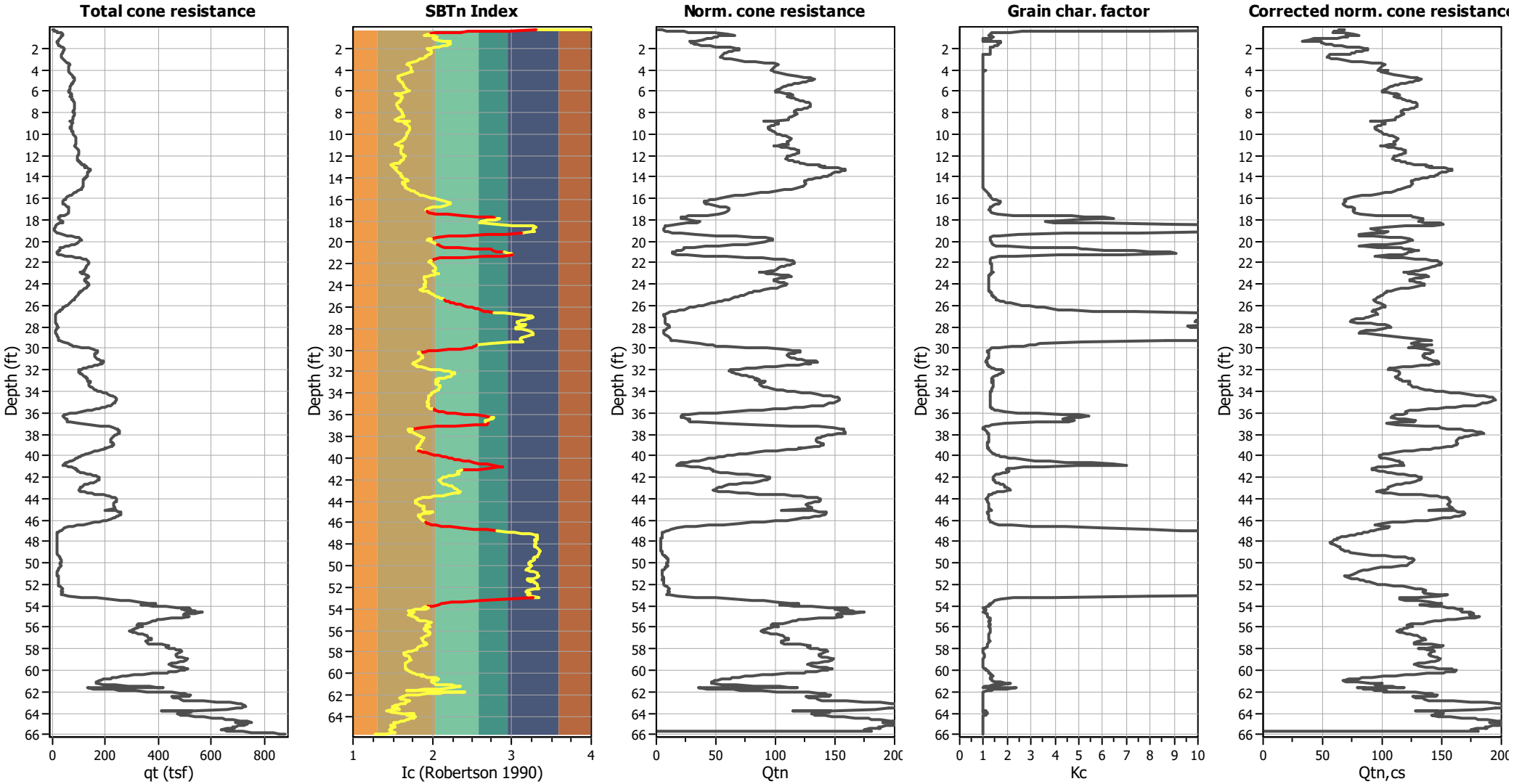

## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.65 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.63 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

**SBTn legend**

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

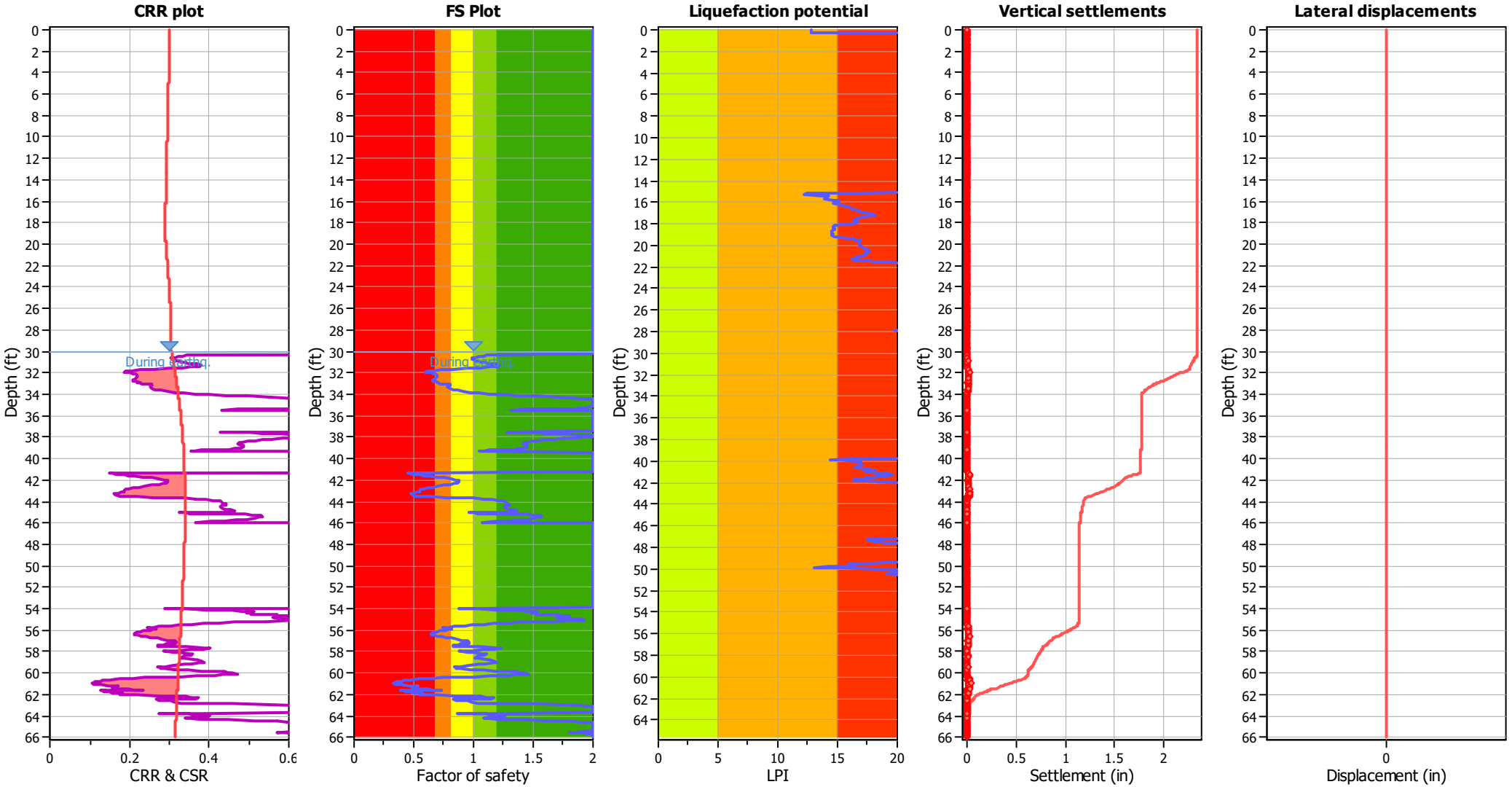
# Liquefaction analysis overall plots (intermediate results)




## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.65 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.63 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

# Liquefaction analysis overall plots




## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.65 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.63 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

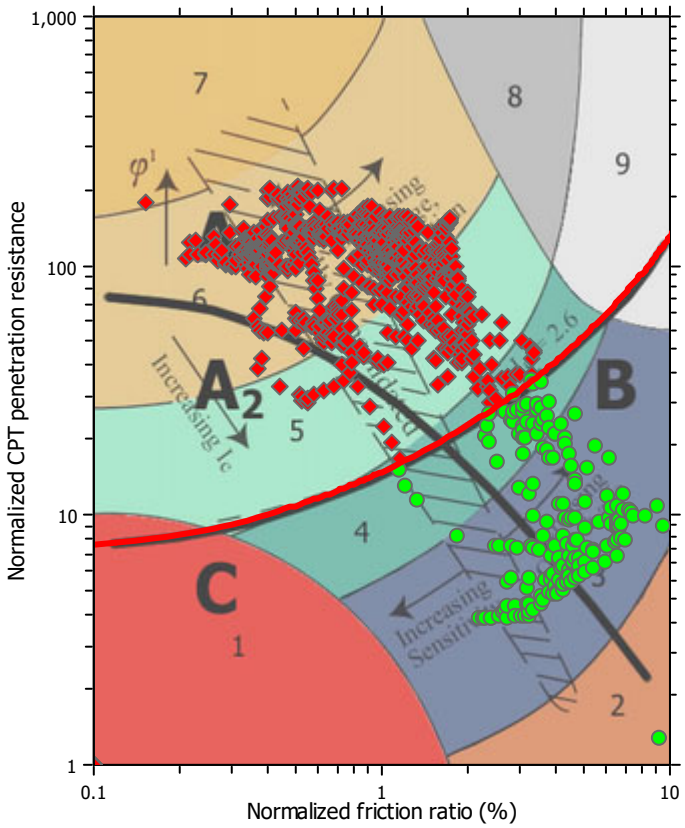
**F.S. color scheme**

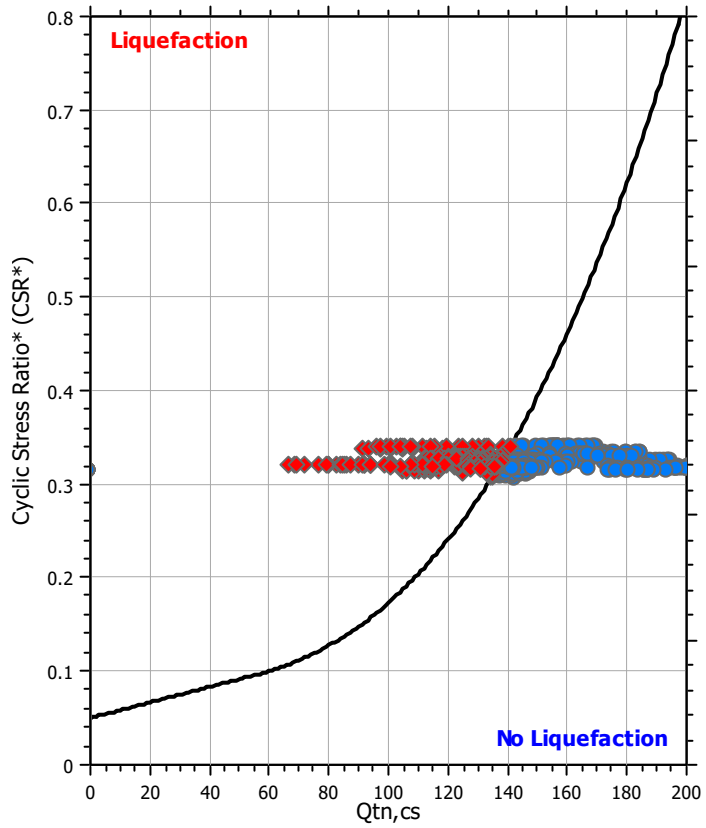
- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

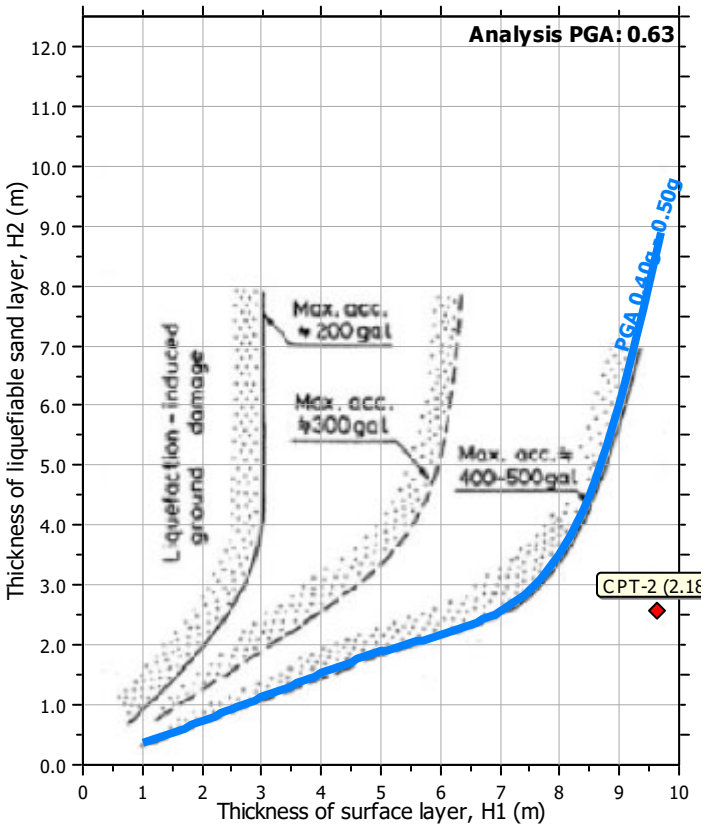
**LPI color scheme**

- Very high risk
- High risk
- Low risk

# Liquefaction analysis summary plots



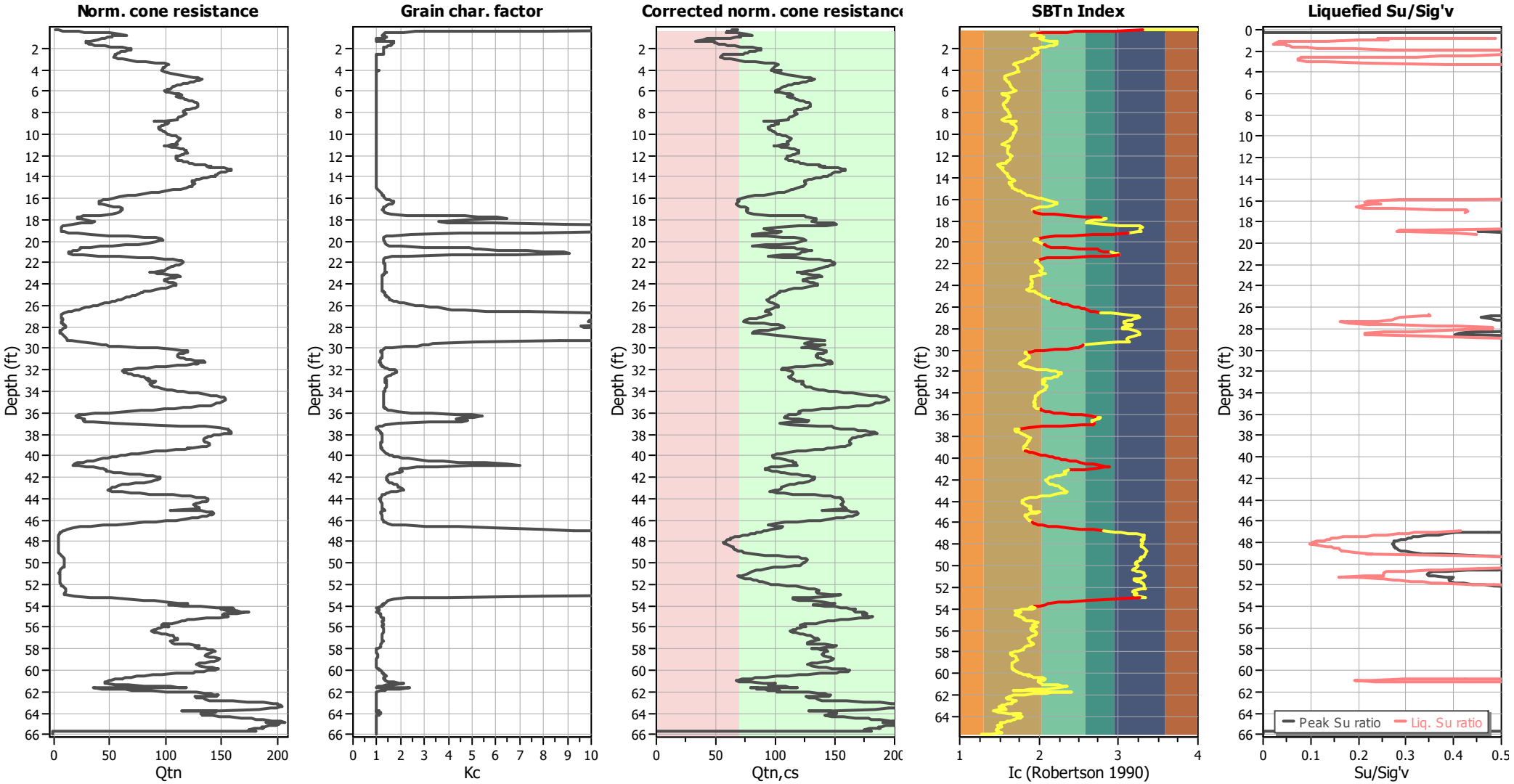




**Input parameters and analysis data**

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.65 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.63 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

## Check for strength loss plots (Robertson (2010))




### Input parameters and analysis data

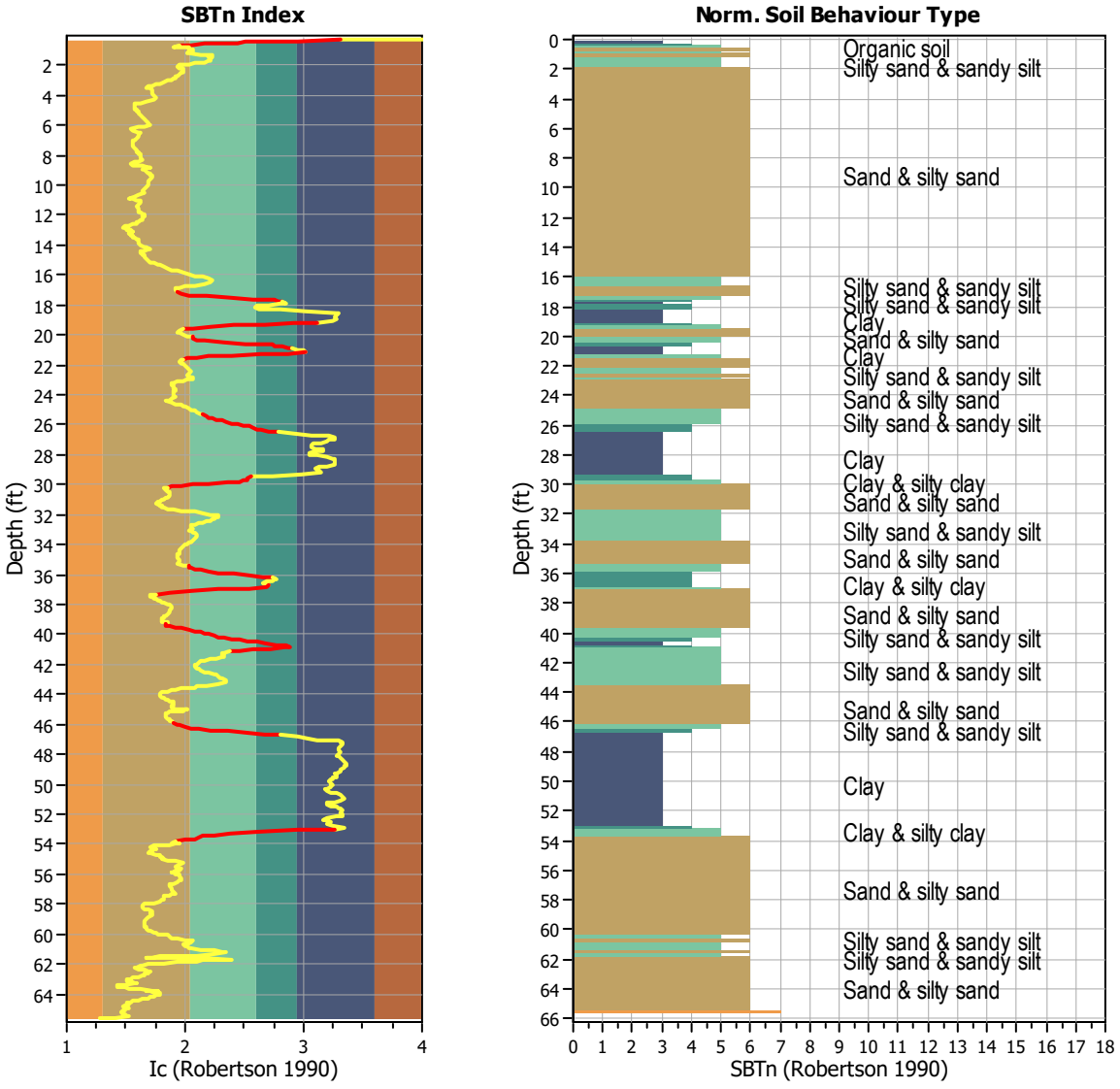
| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.65 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.63 | Use fill: | No | Limit depth applied: | No |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | N/A |

# TRANSITION LAYER DETECTION ALGORITHM REPORT
## Summary Details & Plots

**Short description**

The software will delete data when the cone is in transition from either clay to sand or vise-versa. To do this the software requires a range of $I_c$ values over which the transition will be defined (typically somewhere between $1.80 < I_c < 3.0$) and a rate of change of $I_c$. Transitions typically occur when the rate of change of $I_c$ is fast (i.e. delta $I_c$ is small).

The $SBT_n$ plot below, displays in red the detected transition layers based on the parameters listed below the graphs.




| Transition layer algorithm properties | | General statistics | |
|---|---|---|---|
| $I_c$ minimum check value: | 1.70 | Total points in CPT file: | 1012 |
| $I_c$ maximum check value: | 3.00 | Total points excluded: | 145 |
| $I_c$ change ratio value: | 0.0250 | Exclusion percentage: | 14.33% |
| Minimum number of points in layer: | 4 | Number of layers detected: | 13 |

| Transition layer No | Number of points | Depth | $SBT_n$ number | $SBT_n$ description |
|---|---|---|---|---|
| Transition layer 1 | 13 | Start depth: 0.36 (ft) | 3 | Clay |
| | | End depth: 0.76 (ft) | 6 | Sand & silty sand |
| Transition layer 2 | 10 | Start depth: 17.22 (ft) | 6 | Sand & silty sand |
| | | End depth: 17.85 (ft) | 3 | Clay |
| Transition layer 3 | 7 | Start depth: 19.22 (ft) | 3 | Clay |
| | | End depth: 19.69 (ft) | 6 | Sand & silty sand |
| Transition layer 4 | 13 | Start depth: 20.26 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 20.96 (ft) | 3 | Clay |
| Transition layer 5 | 8 | Start depth: 21.25 (ft) | 3 | Clay |
| | | End depth: 21.69 (ft) | 6 | Sand & silty sand |
| Transition layer 6 | 16 | Start depth: 25.41 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 26.61 (ft) | 3 | Clay |
| Transition layer 7 | 12 | Start depth: 29.63 (ft) | 4 | Clay & silty clay |
| | | End depth: 30.24 (ft) | 6 | Sand & silty sand |
| Transition layer 8 | 11 | Start depth: 35.51 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 36.28 (ft) | 4 | Clay & silty clay |
| Transition layer 9 | 7 | Start depth: 36.86 (ft) | 4 | Clay & silty clay |
| | | End depth: 37.39 (ft) | 6 | Sand & silty sand |
| Transition layer 10 | 20 | Start depth: 39.39 (ft) | 6 | Sand & silty sand |
| | | End depth: 40.84 (ft) | 3 | Clay |
| Transition layer 11 | 7 | Start depth: 40.84 (ft) | 3 | Clay |
| | | End depth: 41.22 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 12 | 11 | Start depth: 46.02 (ft) | 6 | Sand & silty sand |
| | | End depth: 46.84 (ft) | 3 | Clay |
| Transition layer 13 | 10 | Start depth: 53.10 (ft) | 3 | Clay |
| | | End depth: 53.92 (ft) | 6 | Sand & silty sand |

Start depth: Depth where the transition layer begins
End depth: Depth where the transition layer ends

**:: Field input data ::**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1 | 0.01 | 0.00 | 0.00 | 0.00 | N/A | 120.90 |
| 2 | 0.04 | -0.10 | 0.01 | 0.00 | N/A | 120.90 |
| 3 | 0.08 | 0.00 | 0.01 | 0.00 | N/A | 120.90 |
| 4 | 0.10 | -0.10 | 0.01 | 0.00 | N/A | 120.90 |
| 5 | 0.13 | 0.00 | 0.02 | 0.00 | N/A | 120.90 |
| 6 | 0.18 | 0.00 | 0.03 | 0.00 | N/A | 120.90 |
| 7 | 0.22 | 0.00 | 0.05 | 0.00 | N/A | 120.90 |
| 8 | 0.27 | 0.00 | 0.08 | 0.00 | 100.00 | 90.68 |
| 9 | 0.33 | 2.43 | 0.09 | 0.00 | 81.96 | 94.98 |
| 10 | 0.36 | 5.87 | 0.09 | 0.00 | 55.30 | 96.98 |
| 11 | 0.37 | 7.19 | 0.09 | 0.00 | 43.87 | 97.82 |
| 12 | 0.38 | 8.30 | 0.10 | 0.00 | 39.79 | 98.46 |
| 13 | 0.42 | 9.11 | 0.11 | 0.00 | 36.64 | 99.41 |
| 14 | 0.44 | 10.73 | 0.12 | 0.00 | 34.37 | 100.58 |
| 15 | 0.47 | 11.94 | 0.14 | 0.00 | 31.37 | 101.55 |
| 16 | 0.47 | 13.87 | 0.14 | 0.00 | 28.15 | 102.58 |
| 17 | 0.52 | 16.90 | 0.16 | 0.00 | 24.51 | 103.55 |
| 18 | 0.56 | 20.24 | 0.17 | 0.00 | 21.06 | 104.60 |
| 19 | 0.58 | 24.29 | 0.18 | 0.00 | 17.61 | 105.59 |
| 20 | 0.61 | 30.26 | 0.19 | 0.10 | 14.26 | 106.54 |
| 21 | 0.66 | 37.55 | 0.20 | 0.10 | 11.58 | 107.34 |
| 22 | 0.76 | 43.02 | 0.21 | 0.10 | 10.25 | 107.74 |
| 23 | 0.80 | 41.80 | 0.21 | 0.10 | 11.05 | 107.65 |
| 24 | 0.81 | 31.17 | 0.21 | 0.10 | 12.33 | 107.41 |
| 25 | 0.85 | 33.50 | 0.20 | 0.10 | 13.76 | 107.15 |
| 26 | 0.86 | 32.59 | 0.20 | 0.10 | 13.66 | 107.29 |
| 27 | 0.90 | 32.29 | 0.22 | 0.10 | 14.33 | 107.68 |
| 28 | 0.95 | 31.78 | 0.24 | 0.10 | 14.92 | 108.07 |
| 29 | 1.00 | 31.38 | 0.24 | 0.10 | 14.72 | 106.94 |
| 30 | 1.05 | 28.44 | 0.12 | 0.10 | 14.03 | 104.83 |
| 31 | 1.14 | 26.82 | 0.10 | 0.10 | 5.00 | 101.56 |
| 32 | 1.24 | 24.39 | 0.08 | 0.10 | 5.00 | 100.45 |
| 33 | 1.31 | 21.66 | 0.09 | 0.10 | 5.00 | 100.02 |
| 34 | 1.36 | 15.49 | 0.10 | 0.10 | 19.77 | 100.07 |
| 35 | 1.37 | 16.65 | 0.10 | 0.10 | 20.16 | 100.28 |
| 36 | 1.39 | 21.17 | 0.10 | 0.10 | 19.32 | 100.40 |
| 37 | 1.43 | 17.81 | 0.10 | 0.10 | 18.80 | 100.44 |
| 38 | 1.44 | 18.12 | 0.10 | 0.10 | 19.86 | 100.33 |
| 39 | 1.49 | 18.22 | 0.10 | 0.10 | 19.73 | 100.60 |
| 40 | 1.53 | 18.72 | 0.11 | 0.10 | 19.64 | 101.22 |
| 41 | 1.58 | 19.74 | 0.12 | 0.10 | 19.61 | 102.17 |
| 42 | 1.63 | 20.55 | 0.14 | 0.10 | 19.60 | 103.26 |
| 43 | 1.68 | 21.56 | 0.16 | 0.10 | 19.49 | 104.34 |
| 44 | 1.72 | 22.98 | 0.18 | 0.10 | 18.93 | 105.39 |
| 45 | 1.77 | 25.40 | 0.20 | 0.10 | 17.98 | 106.40 |
| 46 | 1.82 | 28.04 | 0.22 | 0.19 | 16.68 | 107.38 |
| 47 | 1.86 | 31.48 | 0.24 | 0.19 | 15.32 | 108.26 |
| 48 | 1.92 | 35.02 | 0.26 | 0.19 | 13.84 | 108.95 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 49 | 1.97 | 38.77 | 0.26 | 0.19 | 12.52 | 109.50 |
| 50 | 2.01 | 42.21 | 0.27 | 0.19 | 11.75 | 110.13 |
| 51 | 2.09 | 43.83 | 0.31 | 0.19 | 11.40 | 110.51 |
| 52 | 2.16 | 43.62 | 0.30 | 0.19 | 11.59 | 110.65 |
| 53 | 2.20 | 41.70 | 0.29 | 0.19 | 12.00 | 110.35 |
| 54 | 2.25 | 39.07 | 0.28 | 0.19 | 12.39 | 109.98 |
| 55 | 2.31 | 38.77 | 0.27 | 0.19 | 12.55 | 109.49 |
| 56 | 2.37 | 37.96 | 0.25 | 0.19 | 12.51 | 108.98 |
| 57 | 2.40 | 36.64 | 0.24 | 0.19 | 12.56 | 108.51 |
| 58 | 2.46 | 36.03 | 0.23 | 0.19 | 12.53 | 107.92 |
| 59 | 2.54 | 35.22 | 0.20 | 0.19 | 12.28 | 107.21 |
| 60 | 2.59 | 34.82 | 0.18 | 0.19 | 5.00 | 106.07 |
| 61 | 2.69 | 34.01 | 0.14 | 0.19 | 5.00 | 105.12 |
| 62 | 2.74 | 33.91 | 0.14 | 0.19 | 5.00 | 104.27 |
| 63 | 2.83 | 33.91 | 0.13 | 0.29 | 5.00 | 104.04 |
| 64 | 2.88 | 33.81 | 0.13 | 0.29 | 5.00 | 103.96 |
| 65 | 2.98 | 35.32 | 0.13 | 0.29 | 5.00 | 104.13 |
| 66 | 3.03 | 37.96 | 0.13 | 0.29 | 5.00 | 104.69 |
| 67 | 3.12 | 42.41 | 0.15 | 0.29 | 5.00 | 105.94 |
| 68 | 3.21 | 46.56 | 0.19 | 0.29 | 5.00 | 107.29 |
| 69 | 3.27 | 51.52 | 0.21 | 0.29 | 5.00 | 108.51 |
| 70 | 3.34 | 56.88 | 0.23 | 0.29 | 5.00 | 109.32 |
| 71 | 3.41 | 62.75 | 0.24 | 0.29 | 5.00 | 110.12 |
| 72 | 3.51 | 66.09 | 0.27 | 0.29 | 5.00 | 110.66 |
| 73 | 3.55 | 63.76 | 0.28 | 0.29 | 5.00 | 111.08 |
| 74 | 3.65 | 61.03 | 0.29 | 0.38 | 5.00 | 111.24 |
| 75 | 3.75 | 62.45 | 0.30 | 0.38 | 5.00 | 111.31 |
| 76 | 3.83 | 61.64 | 0.29 | 0.38 | 5.00 | 111.22 |
| 77 | 3.94 | 60.22 | 0.28 | 0.38 | 5.00 | 111.12 |
| 78 | 4.04 | 61.44 | 0.28 | 0.38 | 5.00 | 111.07 |
| 79 | 4.13 | 59.21 | 0.29 | 0.38 | 7.02 | 111.59 |
| 80 | 4.24 | 61.23 | 0.34 | 0.38 | 5.00 | 111.65 |
| 81 | 4.38 | 64.57 | 0.29 | 0.38 | 5.00 | 110.97 |
| 82 | 4.50 | 69.64 | 0.19 | 0.38 | 4.69 | 110.20 |
| 83 | 4.62 | 72.57 | 0.25 | 0.48 | 3.95 | 110.29 |
| 84 | 4.71 | 80.16 | 0.28 | 0.48 | 3.93 | 111.40 |
| 85 | 4.75 | 80.92 | 0.29 | 0.48 | 3.90 | 112.19 |
| 86 | 4.84 | 81.68 | 0.33 | 0.48 | 3.97 | 112.65 |
| 87 | 4.89 | 83.70 | 0.33 | 0.57 | 4.02 | 112.99 |
| 88 | 4.94 | 83.40 | 0.33 | 0.57 | 4.04 | 113.02 |
| 89 | 4.98 | 81.68 | 0.33 | 0.57 | 4.17 | 112.97 |
| 90 | 5.07 | 80.06 | 0.33 | 0.57 | 4.33 | 112.85 |
| 91 | 5.13 | 78.54 | 0.33 | 0.57 | 4.49 | 112.71 |
| 92 | 5.17 | 76.82 | 0.32 | 0.57 | 4.57 | 112.40 |
| 93 | 5.27 | 75.00 | 0.30 | 0.57 | 4.72 | 112.10 |
| 94 | 5.32 | 72.47 | 0.30 | 0.57 | 4.84 | 111.72 |
| 95 | 5.42 | 70.75 | 0.28 | 0.57 | 4.99 | 111.41 |
| 96 | 5.46 | 69.33 | 0.27 | 0.57 | 5.00 | 111.08 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 97 | 5.56 | 67.91 | 0.26 | 0.57 | 5.00 | 110.88 |
| 98 | 5.61 | 66.80 | 0.26 | 0.57 | 5.00 | 110.75 |
| 99 | 5.71 | 65.89 | 0.26 | 0.57 | 5.00 | 110.68 |
| 100 | 5.78 | 64.88 | 0.26 | 0.57 | 5.00 | 110.63 |
| 101 | 5.85 | 63.97 | 0.26 | 0.57 | 5.00 | 110.57 |
| 102 | 5.95 | 62.65 | 0.26 | 0.57 | 5.00 | 110.53 |
| 103 | 6.00 | 61.84 | 0.26 | 0.57 | 5.00 | 110.86 |
| 104 | 6.09 | 62.45 | 0.30 | 0.67 | 5.00 | 109.42 |
| 105 | 6.14 | 64.47 | 0.11 | 0.67 | 4.43 | 108.06 |
| 106 | 6.24 | 67.31 | 0.14 | 0.67 | 3.33 | 106.15 |
| 107 | 6.30 | 70.75 | 0.17 | 0.67 | 3.46 | 107.71 |
| 108 | 6.38 | 73.18 | 0.20 | 0.67 | 3.76 | 108.87 |
| 109 | 6.46 | 70.24 | 0.23 | 0.67 | 4.34 | 109.63 |
| 110 | 6.50 | 65.28 | 0.24 | 0.67 | 4.73 | 110.08 |
| 111 | 6.56 | 69.74 | 0.25 | 0.67 | 4.82 | 110.41 |
| 112 | 6.63 | 71.46 | 0.26 | 0.67 | 4.59 | 110.75 |
| 113 | 6.68 | 72.67 | 0.26 | 0.67 | 4.51 | 110.97 |
| 114 | 6.76 | 73.38 | 0.27 | 0.76 | 4.44 | 111.12 |
| 115 | 6.82 | 74.39 | 0.27 | 0.76 | 4.37 | 111.23 |
| 116 | 6.88 | 75.81 | 0.27 | 0.76 | 4.21 | 111.32 |
| 117 | 6.96 | 78.34 | 0.27 | 0.76 | 3.98 | 111.40 |
| 118 | 7.03 | 80.97 | 0.27 | 0.76 | 3.77 | 111.49 |
| 119 | 7.11 | 82.29 | 0.27 | 0.76 | 3.64 | 111.55 |
| 120 | 7.16 | 82.89 | 0.27 | 0.76 | 3.60 | 111.70 |
| 121 | 7.26 | 83.91 | 0.29 | 0.76 | 3.62 | 111.86 |
| 122 | 7.31 | 84.62 | 0.29 | 0.76 | 3.65 | 112.04 |
| 123 | 7.40 | 84.72 | 0.29 | 0.76 | 3.70 | 112.13 |
| 124 | 7.45 | 84.51 | 0.30 | 0.76 | 3.76 | 112.18 |
| 125 | 7.54 | 84.31 | 0.30 | 0.86 | 3.86 | 112.16 |
| 126 | 7.60 | 83.00 | 0.30 | 0.86 | 3.98 | 112.07 |
| 127 | 7.68 | 81.17 | 0.29 | 0.86 | 4.16 | 111.94 |
| 128 | 7.74 | 79.45 | 0.29 | 0.86 | 4.33 | 111.82 |
| 129 | 7.83 | 78.44 | 0.29 | 0.86 | 4.51 | 111.77 |
| 130 | 7.90 | 77.73 | 0.29 | 0.86 | 4.60 | 111.85 |
| 131 | 7.98 | 78.85 | 0.30 | 0.86 | 4.65 | 112.09 |
| 132 | 8.05 | 80.67 | 0.31 | 0.86 | 4.62 | 112.42 |
| 133 | 8.12 | 82.29 | 0.32 | 0.86 | 4.65 | 112.70 |
| 134 | 8.19 | 82.08 | 0.33 | 0.86 | 4.77 | 112.88 |
| 135 | 8.27 | 80.57 | 0.34 | 0.86 | 5.03 | 113.00 |
| 136 | 8.36 | 78.74 | 0.34 | 0.86 | 5.00 | 112.80 |
| 137 | 8.41 | 78.04 | 0.31 | 0.86 | 4.51 | 111.23 |
| 138 | 8.50 | 78.24 | 0.15 | 0.86 | 3.85 | 109.61 |
| 139 | 8.60 | 78.95 | 0.18 | 0.86 | 3.40 | 108.40 |
| 140 | 8.70 | 79.15 | 0.21 | 0.86 | 3.76 | 109.30 |
| 141 | 8.74 | 78.14 | 0.22 | 0.86 | 4.96 | 109.52 |
| 142 | 8.78 | 55.57 | 0.22 | 0.86 | 5.00 | 109.55 |
| 143 | 8.81 | 62.96 | 0.23 | 0.96 | 5.00 | 109.69 |
| 144 | 8.86 | 72.17 | 0.24 | 0.96 | 5.00 | 110.13 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 145 | 8.91 | 74.09 | 0.25 | 0.96 | 5.00 | 110.49 |
| 146 | 8.94 | 75.00 | 0.25 | 0.96 | 5.00 | 110.79 |
| 147 | 9.02 | 73.89 | 0.27 | 0.96 | 5.00 | 111.08 |
| 148 | 9.10 | 72.47 | 0.28 | 0.96 | 5.00 | 111.34 |
| 149 | 9.17 | 71.15 | 0.28 | 0.96 | 5.00 | 111.44 |
| 150 | 9.22 | 69.84 | 0.28 | 0.96 | 5.00 | 111.44 |
| 151 | 9.31 | 68.83 | 0.28 | 0.96 | 5.00 | 111.41 |
| 152 | 9.37 | 68.32 | 0.28 | 0.96 | 5.00 | 111.39 |
| 153 | 9.42 | 68.32 | 0.28 | 0.96 | 5.00 | 111.39 |
| 154 | 9.52 | 69.13 | 0.28 | 0.96 | 5.00 | 111.41 |
| 155 | 9.60 | 70.04 | 0.28 | 0.96 | 5.00 | 111.49 |
| 156 | 9.66 | 71.36 | 0.29 | 0.96 | 5.00 | 111.61 |
| 157 | 9.74 | 73.18 | 0.29 | 0.96 | 5.00 | 111.74 |
| 158 | 9.81 | 74.80 | 0.29 | 0.96 | 5.00 | 111.88 |
| 159 | 9.89 | 75.71 | 0.30 | 0.96 | 5.00 | 112.10 |
| 160 | 9.98 | 76.82 | 0.32 | 0.96 | 5.00 | 112.42 |
| 161 | 10.03 | 78.54 | 0.33 | 1.05 | 5.00 | 112.78 |
| 162 | 10.13 | 80.97 | 0.34 | 1.05 | 5.00 | 113.14 |
| 163 | 10.23 | 84.21 | 0.35 | 1.05 | 5.00 | 113.45 |
| 164 | 10.32 | 86.94 | 0.36 | 1.05 | 5.00 | 113.68 |
| 165 | 10.38 | 88.16 | 0.36 | 1.05 | 5.00 | 113.80 |
| 166 | 10.47 | 89.17 | 0.37 | 1.05 | 5.00 | 113.83 |
| 167 | 10.57 | 88.66 | 0.36 | 1.05 | 5.00 | 113.81 |
| 168 | 10.66 | 87.45 | 0.36 | 1.05 | 4.50 | 112.22 |
| 169 | 10.76 | 87.65 | 0.16 | 1.05 | 3.90 | 110.65 |
| 170 | 10.85 | 87.85 | 0.19 | 1.05 | 3.30 | 108.99 |
| 171 | 10.92 | 88.46 | 0.22 | 1.05 | 3.57 | 109.92 |
| 172 | 11.00 | 89.27 | 0.23 | 1.05 | 4.11 | 110.26 |
| 173 | 11.07 | 77.73 | 0.23 | 1.05 | 4.54 | 110.35 |
| 174 | 11.10 | 79.45 | 0.23 | 1.05 | 4.87 | 110.48 |
| 175 | 11.15 | 83.40 | 0.25 | 1.05 | 4.71 | 110.88 |
| 176 | 11.19 | 85.53 | 0.26 | 1.05 | 4.61 | 111.40 |
| 177 | 11.24 | 87.25 | 0.28 | 1.05 | 4.59 | 111.90 |
| 178 | 11.29 | 89.47 | 0.30 | 1.05 | 4.51 | 112.30 |
| 179 | 11.34 | 92.21 | 0.31 | 1.05 | 4.40 | 112.73 |
| 180 | 11.40 | 95.14 | 0.33 | 1.05 | 4.33 | 113.17 |
| 181 | 11.47 | 97.27 | 0.35 | 1.05 | 4.32 | 113.59 |
| 182 | 11.53 | 97.98 | 0.36 | 1.05 | 4.38 | 113.88 |
| 183 | 11.58 | 97.87 | 0.36 | 1.05 | 4.42 | 114.06 |
| 184 | 11.65 | 98.78 | 0.37 | 1.05 | 4.46 | 114.22 |
| 185 | 11.72 | 99.39 | 0.38 | 1.05 | 4.50 | 114.36 |
| 186 | 11.77 | 99.29 | 0.38 | 1.05 | 4.57 | 114.43 |
| 187 | 11.82 | 98.28 | 0.38 | 1.05 | 4.67 | 114.45 |
| 188 | 11.88 | 97.47 | 0.38 | 1.15 | 5.03 | 114.87 |
| 189 | 11.97 | 95.95 | 0.45 | 1.05 | 5.00 | 114.84 |
| 190 | 12.02 | 94.84 | 0.38 | 1.05 | 5.00 | 114.75 |
| 191 | 12.06 | 93.42 | 0.38 | 1.05 | 5.00 | 114.18 |
| 192 | 12.11 | 92.31 | 0.37 | 1.05 | 5.00 | 114.03 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 193 | 12.21 | 93.32 | 0.36 | 1.05 | 5.00 | 113.85 |
| 194 | 12.25 | 92.21 | 0.35 | 1.05 | 5.00 | 113.70 |
| 195 | 12.30 | 93.22 | 0.35 | 1.05 | 5.01 | 113.58 |
| 196 | 12.31 | 93.52 | 0.35 | 1.05 | 4.95 | 113.56 |
| 197 | 12.32 | 93.52 | 0.35 | 1.05 | 4.93 | 113.57 |
| 198 | 12.35 | 93.83 | 0.35 | 1.05 | 4.77 | 113.38 |
| 199 | 12.40 | 95.24 | 0.32 | 1.05 | 4.60 | 113.25 |
| 200 | 12.45 | 96.66 | 0.32 | 1.15 | 4.38 | 113.11 |
| 201 | 12.52 | 98.38 | 0.32 | 1.05 | 4.29 | 113.28 |
| 202 | 12.56 | 100.20 | 0.33 | 1.05 | 4.25 | 113.61 |
| 203 | 12.62 | 102.33 | 0.36 | 1.05 | 4.25 | 113.99 |
| 204 | 12.65 | 103.54 | 0.37 | 1.05 | 3.77 | 113.26 |
| 205 | 12.71 | 105.16 | 0.23 | 1.15 | 3.23 | 112.19 |
| 206 | 12.76 | 106.68 | 0.23 | 1.15 | 2.62 | 110.90 |
| 207 | 12.83 | 110.12 | 0.23 | 1.15 | 2.60 | 111.55 |
| 208 | 12.88 | 114.17 | 0.28 | 1.15 | 2.77 | 112.94 |
| 209 | 12.93 | 118.52 | 0.37 | 1.15 | 2.90 | 114.26 |
| 210 | 12.98 | 124.09 | 0.40 | 1.15 | 3.08 | 115.17 |
| 211 | 13.03 | 121.66 | 0.41 | 1.15 | 3.06 | 115.51 |
| 212 | 13.04 | 125.50 | 0.42 | 1.15 | 3.47 | 115.78 |
| 213 | 13.07 | 113.26 | 0.46 | 1.05 | 3.50 | 116.29 |
| 214 | 13.13 | 129.35 | 0.50 | 1.05 | 3.58 | 116.95 |
| 215 | 13.17 | 134.31 | 0.54 | 1.05 | 3.26 | 117.70 |
| 216 | 13.22 | 139.37 | 0.58 | 1.05 | 3.29 | 118.28 |
| 217 | 13.27 | 139.88 | 0.62 | 1.05 | 3.36 | 118.74 |
| 218 | 13.32 | 141.09 | 0.64 | 1.05 | 3.46 | 119.07 |
| 219 | 13.37 | 142.31 | 0.66 | 1.05 | 3.56 | 119.26 |
| 220 | 13.41 | 140.38 | 0.67 | 1.05 | 3.64 | 119.30 |
| 221 | 13.46 | 139.27 | 0.66 | 1.05 | 3.75 | 119.26 |
| 222 | 13.51 | 137.45 | 0.66 | 1.15 | 3.85 | 119.23 |
| 223 | 13.56 | 136.13 | 0.66 | 1.15 | 4.04 | 119.31 |
| 224 | 13.60 | 134.31 | 0.69 | 1.05 | 4.26 | 119.44 |
| 225 | 13.66 | 132.39 | 0.70 | 1.05 | 4.38 | 119.40 |
| 226 | 13.75 | 131.68 | 0.66 | 1.05 | 4.42 | 119.28 |
| 227 | 13.80 | 131.27 | 0.66 | 1.05 | 4.39 | 119.11 |
| 228 | 13.89 | 130.57 | 0.66 | 1.05 | 4.46 | 119.13 |
| 229 | 13.94 | 130.36 | 0.67 | 1.05 | 4.60 | 119.22 |
| 230 | 13.99 | 128.44 | 0.69 | 1.15 | 4.88 | 119.41 |
| 231 | 14.09 | 125.71 | 0.72 | 1.15 | 5.27 | 119.59 |
| 232 | 14.14 | 121.96 | 0.73 | 1.15 | 5.70 | 119.79 |
| 233 | 14.23 | 119.13 | 0.76 | 1.15 | 6.08 | 119.87 |
| 234 | 14.28 | 117.00 | 0.76 | 1.15 | 5.80 | 119.04 |
| 235 | 14.38 | 115.38 | 0.51 | 1.15 | 5.31 | 118.06 |
| 236 | 14.42 | 116.85 | 0.51 | 1.15 | 4.82 | 116.96 |
| 237 | 14.52 | 113.76 | 0.52 | 1.15 | 4.88 | 117.10 |
| 238 | 14.57 | 116.70 | 0.53 | 1.15 | 4.95 | 117.39 |
| 239 | 14.67 | 119.74 | 0.57 | 1.15 | 5.03 | 117.62 |
| 240 | 14.68 | 116.09 | 0.57 | 1.15 | 5.00 | 117.81 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 241 | 14.70 | 117.61 | 0.58 | 1.15 | 5.00 | 117.84 |
| 242 | 14.75 | 115.48 | 0.58 | 1.15 | 5.31 | 117.93 |
| 243 | 14.80 | 116.60 | 0.59 | 1.15 | 5.43 | 118.05 |
| 244 | 14.89 | 116.40 | 0.61 | 1.05 | 5.52 | 118.17 |
| 245 | 14.94 | 115.59 | 0.61 | 1.05 | 5.70 | 118.20 |
| 246 | 15.04 | 112.25 | 0.60 | 1.05 | 5.96 | 118.05 |
| 247 | 15.13 | 107.59 | 0.59 | 1.05 | 6.34 | 117.77 |
| 248 | 15.21 | 101.82 | 0.57 | 1.05 | 6.81 | 117.40 |
| 249 | 15.28 | 95.75 | 0.55 | 1.05 | 7.34 | 116.95 |
| 250 | 15.38 | 89.98 | 0.52 | 1.05 | 7.88 | 116.40 |
| 251 | 15.47 | 84.21 | 0.48 | 1.05 | 8.48 | 115.75 |
| 252 | 15.57 | 77.33 | 0.45 | 1.05 | 9.19 | 115.05 |
| 253 | 15.67 | 71.05 | 0.42 | 1.05 | 10.08 | 114.27 |
| 254 | 15.77 | 63.87 | 0.38 | 0.96 | 11.15 | 113.43 |
| 255 | 15.86 | 56.78 | 0.35 | 0.96 | 12.43 | 112.60 |
| 256 | 15.96 | 51.11 | 0.33 | 0.96 | 13.84 | 112.03 |
| 257 | 16.05 | 47.27 | 0.34 | 0.96 | 15.41 | 111.80 |
| 258 | 16.15 | 43.52 | 0.35 | 0.96 | 17.50 | 112.16 |
| 259 | 16.25 | 39.98 | 0.42 | 0.96 | 19.14 | 112.43 |
| 260 | 16.31 | 39.78 | 0.40 | 0.96 | 20.17 | 112.68 |
| 261 | 16.39 | 39.78 | 0.40 | 0.96 | 20.08 | 112.48 |
| 262 | 16.48 | 39.57 | 0.38 | 0.96 | 19.41 | 112.23 |
| 263 | 16.59 | 42.10 | 0.35 | 0.96 | 17.84 | 112.02 |
| 264 | 16.68 | 47.47 | 0.35 | 0.96 | 15.50 | 111.89 |
| 265 | 16.76 | 54.25 | 0.33 | 0.96 | 13.16 | 111.73 |
| 266 | 16.86 | 59.92 | 0.29 | 0.96 | 11.62 | 111.63 |
| 267 | 16.92 | 61.94 | 0.31 | 0.96 | 10.95 | 111.65 |
| 268 | 17.02 | 61.84 | 0.32 | 0.96 | 10.86 | 111.63 |
| 269 | 17.11 | 61.13 | 0.29 | 0.96 | 11.26 | 111.95 |
| 270 | 17.22 | 60.42 | 0.35 | 0.96 | 11.88 | 112.47 |
| 271 | 17.35 | 59.61 | 0.39 | 0.96 | 14.04 | 114.30 |
| 272 | 17.45 | 55.47 | 0.60 | 0.96 | 18.38 | 116.52 |
| 273 | 17.55 | 44.33 | 0.88 | 0.96 | 25.48 | 117.93 |
| 274 | 17.61 | 30.36 | 0.95 | 0.96 | 33.75 | 118.25 |
| 275 | 17.64 | 27.02 | 0.93 | 0.76 | 40.43 | 117.69 |
| 276 | 17.70 | 24.80 | 0.87 | 0.76 | 43.23 | 117.15 |
| 277 | 17.75 | 22.67 | 0.84 | 0.76 | 45.31 | 116.73 |
| 278 | 17.80 | 21.86 | 0.84 | 0.76 | 46.98 | 116.55 |
| 279 | 17.85 | 21.56 | 0.84 | 0.86 | 48.89 | 116.96 |
| 280 | 17.94 | 21.26 | 1.00 | 0.86 | 45.90 | 117.91 |
| 281 | 17.99 | 30.26 | 1.09 | 0.86 | 40.69 | 119.19 |
| 282 | 18.09 | 37.65 | 1.19 | 0.86 | 35.41 | 120.26 |
| 283 | 18.15 | 41.30 | 1.27 | 0.76 | 34.54 | 120.72 |
| 284 | 18.23 | 36.03 | 1.26 | 0.76 | 36.66 | 120.67 |
| 285 | 18.33 | 30.87 | 1.23 | 0.76 | 46.11 | 119.75 |
| 286 | 18.43 | 14.17 | 1.16 | 0.76 | 59.31 | 117.89 |
| 287 | 18.52 | 10.22 | 0.82 | 0.76 | 78.74 | 114.99 |
| 288 | 18.59 | 9.41 | 0.56 | 0.76 | 81.21 | 111.71 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 289 | 18.72 | 8.10 | 0.35 | 0.76 | 78.82 | 108.87 |
| 290 | 18.81 | 7.79 | 0.30 | 0.76 | 77.80 | 106.89 |
| 291 | 18.87 | 7.69 | 0.30 | 0.76 | 78.37 | 106.65 |
| 292 | 18.95 | 7.69 | 0.32 | 0.86 | 79.72 | 107.66 |
| 293 | 19.05 | 8.40 | 0.43 | 0.86 | 76.48 | 109.13 |
| 294 | 19.14 | 10.73 | 0.48 | 0.86 | 66.73 | 110.57 |
| 295 | 19.22 | 14.78 | 0.48 | 0.86 | 53.52 | 111.65 |
| 296 | 19.29 | 20.75 | 0.49 | 0.86 | 39.10 | 113.06 |
| 297 | 19.38 | 34.31 | 0.56 | 0.86 | 26.85 | 114.86 |
| 298 | 19.44 | 55.26 | 0.63 | 0.86 | 19.18 | 117.03 |
| 299 | 19.53 | 74.70 | 0.80 | 0.86 | 14.77 | 118.92 |
| 300 | 19.62 | 90.89 | 0.91 | 0.86 | 12.57 | 120.49 |
| 301 | 19.69 | 102.43 | 1.00 | 0.76 | 11.54 | 121.67 |
| 302 | 19.79 | 108.50 | 1.15 | 0.76 | 11.36 | 122.57 |
| 303 | 19.86 | 109.41 | 1.24 | 0.76 | 11.84 | 123.28 |
| 304 | 19.97 | 106.58 | 1.33 | 0.76 | 12.61 | 123.60 |
| 305 | 20.07 | 101.72 | 1.35 | 0.76 | 13.52 | 123.57 |
| 306 | 20.16 | 94.94 | 1.29 | 0.76 | 14.68 | 123.29 |
| 307 | 20.26 | 85.73 | 1.27 | 0.76 | 14.95 | 121.49 |
| 308 | 20.34 | 72.77 | 0.61 | 0.67 | 15.95 | 119.48 |
| 309 | 20.43 | 59.51 | 0.65 | 0.67 | 17.67 | 117.13 |
| 310 | 20.50 | 47.17 | 0.70 | 0.67 | 23.52 | 117.36 |
| 311 | 20.60 | 37.15 | 0.83 | 0.67 | 30.86 | 117.42 |
| 312 | 20.62 | 28.74 | 0.85 | 0.67 | 38.22 | 117.36 |
| 313 | 20.63 | 25.51 | 0.86 | 0.57 | 41.38 | 117.35 |
| 314 | 20.68 | 29.96 | 0.89 | 0.57 | 42.41 | 117.60 |
| 315 | 20.73 | 27.73 | 0.95 | 0.57 | 43.48 | 118.01 |
| 316 | 20.82 | 25.20 | 1.01 | 0.57 | 47.06 | 118.03 |
| 317 | 20.87 | 23.48 | 0.98 | 0.57 | 50.17 | 117.77 |
| 318 | 20.91 | 21.66 | 0.93 | 0.57 | 52.49 | 117.09 |
| 319 | 20.96 | 19.53 | 0.83 | 0.67 | 55.24 | 116.20 |
| 320 | 21.05 | 17.51 | 0.75 | 0.67 | 58.65 | 115.41 |
| 321 | 21.11 | 15.69 | 0.75 | 0.67 | 59.61 | 115.06 |
| 322 | 21.17 | 17.71 | 0.75 | 0.67 | 59.41 | 115.10 |
| 323 | 21.25 | 17.91 | 0.76 | 0.67 | 50.49 | 115.80 |
| 324 | 21.30 | 28.04 | 0.80 | 0.67 | 37.44 | 117.17 |
| 325 | 21.37 | 47.77 | 0.89 | 0.67 | 25.95 | 118.97 |
| 326 | 21.45 | 69.84 | 1.01 | 0.76 | 19.10 | 120.73 |
| 327 | 21.49 | 88.87 | 1.16 | 0.76 | 15.54 | 122.37 |
| 328 | 21.58 | 104.65 | 1.36 | 0.76 | 13.61 | 123.67 |
| 329 | 21.64 | 116.80 | 1.47 | 0.76 | 12.50 | 124.67 |
| 330 | 21.69 | 125.61 | 1.57 | 0.76 | 11.91 | 125.41 |
| 331 | 21.78 | 131.07 | 1.71 | 0.76 | 11.69 | 126.01 |
| 332 | 21.83 | 134.51 | 1.80 | 0.76 | 11.79 | 126.54 |
| 333 | 21.89 | 135.73 | 1.90 | 0.76 | 12.04 | 126.96 |
| 334 | 21.98 | 136.03 | 2.02 | 0.76 | 12.40 | 127.34 |
| 335 | 22.03 | 136.23 | 2.09 | 0.76 | 12.75 | 127.63 |
| 336 | 22.12 | 135.42 | 2.15 | 0.76 | 13.09 | 127.77 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 337 | 22.22 | 132.99 | 2.16 | 0.76 | 13.41 | 127.81 |
| 338 | 22.26 | 131.17 | 2.15 | 0.76 | 13.69 | 127.73 |
| 339 | 22.36 | 128.44 | 2.12 | 0.76 | 13.97 | 127.61 |
| 340 | 22.41 | 125.51 | 2.10 | 0.76 | 14.35 | 127.56 |
| 341 | 22.51 | 123.38 | 2.14 | 0.76 | 14.15 | 127.06 |
| 342 | 22.60 | 121.66 | 1.74 | 0.76 | 13.83 | 126.45 |
| 343 | 22.70 | 118.93 | 1.65 | 0.76 | 13.30 | 125.68 |
| 344 | 22.75 | 117.41 | 1.61 | 0.76 | 13.43 | 125.41 |
| 345 | 22.84 | 114.27 | 1.59 | 0.76 | 14.48 | 125.10 |
| 346 | 22.89 | 96.25 | 1.56 | 0.76 | 14.75 | 124.96 |
| 347 | 22.90 | 110.88 | 1.55 | 0.76 | 15.01 | 124.78 |
| 348 | 22.94 | 107.49 | 1.51 | 0.76 | 13.97 | 124.76 |
| 349 | 23.00 | 111.94 | 1.47 | 0.76 | 13.47 | 124.67 |
| 350 | 23.08 | 117.61 | 1.47 | 0.86 | 12.40 | 124.71 |
| 351 | 23.13 | 127.23 | 1.45 | 0.86 | 11.31 | 124.84 |
| 352 | 23.20 | 136.23 | 1.45 | 0.86 | 10.47 | 124.96 |
| 353 | 23.27 | 138.66 | 1.46 | 0.86 | 10.12 | 124.97 |
| 354 | 23.33 | 136.23 | 1.43 | 0.76 | 10.11 | 124.75 |
| 355 | 23.42 | 131.78 | 1.34 | 0.86 | 10.24 | 124.32 |
| 356 | 23.48 | 126.62 | 1.25 | 0.76 | 10.39 | 123.80 |
| 357 | 23.57 | 122.37 | 1.20 | 0.86 | 10.62 | 123.46 |
| 358 | 23.61 | 120.44 | 1.20 | 0.86 | 10.81 | 123.34 |
| 359 | 23.66 | 120.75 | 1.21 | 0.86 | 10.87 | 123.44 |
| 360 | 23.73 | 123.28 | 1.25 | 0.86 | 10.80 | 123.73 |
| 361 | 23.80 | 128.04 | 1.32 | 0.86 | 10.61 | 124.10 |
| 362 | 23.85 | 132.49 | 1.37 | 0.86 | 10.45 | 124.49 |
| 363 | 23.94 | 135.32 | 1.42 | 0.86 | 10.34 | 124.75 |
| 364 | 24.00 | 136.54 | 1.44 | 0.86 | 10.35 | 124.89 |
| 365 | 24.09 | 135.73 | 1.44 | 0.86 | 10.44 | 124.90 |
| 366 | 24.16 | 133.80 | 1.43 | 0.86 | 10.68 | 124.85 |
| 367 | 24.24 | 130.46 | 1.43 | 0.86 | 10.08 | 123.73 |
| 368 | 24.33 | 125.81 | 0.86 | 0.86 | 9.54 | 122.48 |
| 369 | 24.43 | 121.05 | 0.88 | 0.86 | 8.99 | 121.06 |
| 370 | 24.52 | 116.40 | 0.91 | 0.86 | 9.98 | 121.07 |
| 371 | 24.58 | 105.36 | 0.92 | 0.86 | 10.82 | 121.05 |
| 372 | 24.59 | 104.91 | 0.92 | 0.86 | 11.52 | 121.00 |
| 373 | 24.63 | 103.24 | 0.93 | 0.76 | 11.65 | 121.07 |
| 374 | 24.68 | 104.45 | 0.95 | 0.76 | 11.99 | 121.27 |
| 375 | 24.77 | 102.63 | 1.00 | 0.76 | 12.42 | 121.51 |
| 376 | 24.82 | 100.30 | 1.03 | 0.76 | 13.12 | 121.77 |
| 377 | 24.92 | 97.98 | 1.08 | 0.76 | 13.83 | 121.94 |
| 378 | 25.01 | 95.24 | 1.10 | 0.76 | 14.55 | 122.06 |
| 379 | 25.06 | 92.41 | 1.11 | 0.76 | 15.23 | 122.08 |
| 380 | 25.16 | 89.47 | 1.12 | 0.76 | 15.90 | 122.02 |
| 381 | 25.25 | 86.54 | 1.11 | 0.76 | 16.59 | 121.94 |
| 382 | 25.30 | 83.50 | 1.11 | 0.76 | 17.28 | 121.83 |
| 383 | 25.41 | 80.57 | 1.11 | 0.76 | 18.09 | 121.73 |
| 384 | 25.49 | 77.23 | 1.11 | 0.76 | 18.98 | 121.65 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 385 | 25.55 | 73.99 | 1.11 | 0.76 | 20.07 | 121.62 |
| 386 | 25.64 | 70.65 | 1.15 | 0.76 | 21.32 | 121.62 |
| 387 | 25.70 | 67.11 | 1.16 | 0.76 | 22.79 | 121.64 |
| 388 | 25.79 | 63.26 | 1.19 | 0.76 | 24.37 | 121.58 |
| 389 | 25.89 | 59.31 | 1.18 | 0.76 | 26.26 | 121.42 |
| 390 | 25.94 | 54.15 | 1.17 | 0.76 | 28.33 | 121.11 |
| 391 | 26.02 | 49.29 | 1.13 | 0.76 | 30.48 | 120.54 |
| 392 | 26.12 | 44.64 | 1.03 | 0.76 | 32.30 | 119.79 |
| 393 | 26.17 | 41.19 | 0.94 | 0.67 | 34.00 | 118.80 |
| 394 | 26.28 | 36.64 | 0.83 | 0.67 | 35.82 | 117.81 |
| 395 | 26.36 | 33.20 | 0.76 | 0.67 | 37.65 | 116.64 |
| 396 | 26.45 | 30.06 | 0.64 | 0.67 | 40.39 | 115.51 |
| 397 | 26.50 | 25.00 | 0.59 | 0.67 | 44.96 | 114.33 |
| 398 | 26.61 | 19.74 | 0.56 | 0.67 | 52.70 | 113.36 |
| 399 | 26.70 | 15.69 | 0.53 | 0.67 | 63.56 | 112.54 |
| 400 | 26.77 | 12.45 | 0.54 | 0.67 | 73.76 | 111.85 |
| 401 | 26.85 | 10.73 | 0.52 | 0.67 | 77.64 | 111.21 |
| 402 | 26.94 | 12.35 | 0.44 | 0.67 | 78.19 | 110.57 |
| 403 | 27.04 | 11.23 | 0.43 | 0.67 | 74.40 | 110.13 |
| 404 | 27.14 | 12.25 | 0.42 | 0.67 | 72.81 | 110.00 |
| 405 | 27.23 | 13.16 | 0.41 | 0.76 | 69.26 | 109.81 |
| 406 | 27.28 | 13.26 | 0.38 | 0.76 | 67.37 | 109.59 |
| 407 | 27.29 | 13.21 | 0.37 | 0.76 | 64.60 | 108.54 |
| 408 | 27.38 | 13.36 | 0.25 | 0.76 | 63.04 | 107.81 |
| 409 | 27.48 | 13.26 | 0.28 | 0.76 | 62.75 | 107.60 |
| 410 | 27.57 | 13.16 | 0.35 | 0.76 | 65.67 | 108.83 |
| 411 | 27.64 | 13.36 | 0.41 | 0.76 | 68.02 | 109.83 |
| 412 | 27.65 | 13.36 | 0.43 | 0.67 | 70.74 | 111.13 |
| 413 | 27.74 | 13.56 | 0.57 | 0.67 | 69.81 | 112.46 |
| 414 | 27.80 | 16.60 | 0.65 | 0.67 | 65.76 | 114.19 |
| 415 | 27.90 | 20.55 | 0.77 | 0.67 | 61.65 | 115.18 |
| 416 | 27.99 | 20.34 | 0.77 | 0.67 | 61.92 | 115.44 |
| 417 | 28.07 | 17.11 | 0.72 | 0.67 | 66.57 | 114.64 |
| 418 | 28.16 | 13.87 | 0.62 | 0.67 | 72.64 | 113.23 |
| 419 | 28.25 | 12.35 | 0.50 | 0.67 | 76.77 | 111.52 |
| 420 | 28.34 | 11.34 | 0.41 | 0.67 | 77.68 | 109.88 |
| 421 | 28.44 | 10.83 | 0.35 | 0.67 | 77.85 | 108.83 |
| 422 | 28.53 | 10.83 | 0.35 | 0.67 | 78.14 | 108.53 |
| 423 | 28.62 | 10.83 | 0.37 | 0.67 | 77.38 | 110.10 |
| 424 | 28.76 | 13.56 | 0.57 | 0.67 | 72.35 | 112.51 |
| 425 | 28.86 | 18.22 | 0.74 | 0.76 | 67.30 | 115.27 |
| 426 | 28.96 | 21.15 | 0.97 | 0.76 | 65.09 | 117.31 |
| 427 | 29.08 | 21.56 | 1.17 | 0.76 | 67.25 | 119.00 |
| 428 | 29.19 | 21.15 | 1.43 | 0.76 | 69.03 | 120.29 |
| 429 | 29.29 | 23.48 | 1.60 | 0.76 | 57.91 | 120.47 |
| 430 | 29.39 | 37.85 | 0.97 | 0.76 | 42.67 | 122.13 |
| 431 | 29.50 | 60.73 | 1.83 | 0.76 | 33.13 | 124.03 |
| 432 | 29.63 | 74.39 | 2.28 | 0.76 | 32.04 | 126.13 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 433 | 29.65 | 65.49 | 2.34 | 0.76 | 31.66 | 126.80 |
| 434 | 29.66 | 70.75 | 2.34 | 0.76 | 31.48 | 126.90 |
| 435 | 29.72 | 76.72 | 2.35 | 0.76 | 30.48 | 126.99 |
| 436 | 29.80 | 73.08 | 2.34 | 0.76 | 28.82 | 127.09 |
| 437 | 29.85 | 83.60 | 2.30 | 0.96 | 24.74 | 127.25 |
| 438 | 29.94 | 111.74 | 2.18 | 1.05 | 19.12 | 127.53 |
| 439 | 30.00 | 139.37 | 2.11 | 0.96 | 14.70 | 127.66 |
| 440 | 30.05 | 155.36 | 1.99 | 0.96 | 11.90 | 127.40 |
| 441 | 30.14 | 164.17 | 1.72 | 0.86 | 10.16 | 126.80 |
| 442 | 30.19 | 168.22 | 1.55 | 0.86 | 9.10 | 126.23 |
| 443 | 30.24 | 170.24 | 1.55 | 0.86 | 8.70 | 126.01 |
| 444 | 30.29 | 170.34 | 1.56 | 0.86 | 8.77 | 126.09 |
| 445 | 30.38 | 168.42 | 1.60 | 0.96 | 9.02 | 126.13 |
| 446 | 30.43 | 164.37 | 1.60 | 0.96 | 9.33 | 126.13 |
| 447 | 30.48 | 161.54 | 1.59 | 0.96 | 9.59 | 126.05 |
| 448 | 30.54 | 158.91 | 1.58 | 0.96 | 9.78 | 125.95 |
| 449 | 30.62 | 156.98 | 1.55 | 0.96 | 9.79 | 125.86 |
| 450 | 30.67 | 159.11 | 1.54 | 0.96 | 9.79 | 125.78 |
| 451 | 30.72 | 157.18 | 1.54 | 0.96 | 9.69 | 125.76 |
| 452 | 30.76 | 159.31 | 1.53 | 0.96 | 9.55 | 125.70 |
| 453 | 30.86 | 161.84 | 1.49 | 0.96 | 9.23 | 125.64 |
| 454 | 30.91 | 164.98 | 1.48 | 0.96 | 8.91 | 125.62 |
| 455 | 30.95 | 168.42 | 1.49 | 0.96 | 8.55 | 125.64 |
| 456 | 31.03 | 173.38 | 1.47 | 0.96 | 8.12 | 125.67 |
| 457 | 31.10 | 179.65 | 1.45 | 1.05 | 7.69 | 125.73 |
| 458 | 31.15 | 185.02 | 1.48 | 1.05 | 7.34 | 125.89 |
| 459 | 31.20 | 190.38 | 1.52 | 1.05 | 7.18 | 126.13 |
| 460 | 31.26 | 193.52 | 1.57 | 1.05 | 7.15 | 126.36 |
| 461 | 31.34 | 193.62 | 1.60 | 1.05 | 7.71 | 126.40 |
| 462 | 31.37 | 171.46 | 1.60 | 1.05 | 7.87 | 126.43 |
| 463 | 31.38 | 188.76 | 1.60 | 1.15 | 8.09 | 126.36 |
| 464 | 31.43 | 183.91 | 1.58 | 1.15 | 7.77 | 126.31 |
| 465 | 31.47 | 181.17 | 1.53 | 1.15 | 8.03 | 126.07 |
| 466 | 31.55 | 172.87 | 1.49 | 1.15 | 8.51 | 125.78 |
| 467 | 31.59 | 160.83 | 1.47 | 1.15 | 9.39 | 125.48 |
| 468 | 31.66 | 147.27 | 1.45 | 1.15 | 10.59 | 125.21 |
| 469 | 31.73 | 135.12 | 1.45 | 1.05 | 12.03 | 125.03 |
| 470 | 31.78 | 124.80 | 1.48 | 1.05 | 13.62 | 124.95 |
| 471 | 31.84 | 115.28 | 1.53 | 1.05 | 15.49 | 125.08 |
| 472 | 31.93 | 106.78 | 1.65 | 1.05 | 17.52 | 125.26 |
| 473 | 31.98 | 99.59 | 1.73 | 1.15 | 19.53 | 125.52 |
| 474 | 32.02 | 94.84 | 1.82 | 1.15 | 20.69 | 125.90 |
| 475 | 32.09 | 100.05 | 1.96 | 1.15 | 21.58 | 126.26 |
| 476 | 32.16 | 96.05 | 2.03 | 1.15 | 21.57 | 126.59 |
| 477 | 32.22 | 100.51 | 2.04 | 1.15 | 21.42 | 126.73 |
| 478 | 32.27 | 104.25 | 2.05 | 1.15 | 20.75 | 126.84 |
| 479 | 32.34 | 105.67 | 2.06 | 1.24 | 20.20 | 126.90 |
| 480 | 32.42 | 108.10 | 2.04 | 1.24 | 19.56 | 126.93 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 481 | 32.46 | 112.85 | 2.02 | 1.24 | 18.55 | 126.88 |
| 482 | 32.54 | 118.12 | 1.95 | 1.24 | 17.41 | 126.77 |
| 483 | 32.60 | 122.16 | 1.87 | 1.24 | 16.07 | 126.34 |
| 484 | 32.67 | 124.90 | 1.62 | 1.24 | 15.05 | 125.97 |
| 485 | 32.75 | 127.33 | 1.63 | 1.24 | 14.32 | 125.74 |
| 486 | 32.81 | 130.26 | 1.68 | 1.24 | 14.20 | 126.03 |
| 487 | 32.89 | 133.50 | 1.79 | 1.24 | 14.12 | 126.37 |
| 488 | 32.94 | 136.34 | 1.83 | 1.24 | 14.96 | 126.52 |
| 489 | 32.95 | 118.52 | 1.84 | 1.24 | 14.91 | 126.69 |
| 490 | 33.00 | 138.16 | 1.90 | 1.24 | 14.89 | 126.92 |
| 491 | 33.06 | 141.90 | 1.98 | 1.24 | 14.05 | 127.30 |
| 492 | 33.11 | 143.12 | 2.03 | 1.24 | 14.18 | 127.55 |
| 493 | 33.20 | 141.70 | 2.09 | 1.24 | 14.56 | 127.71 |
| 494 | 33.25 | 138.76 | 2.13 | 1.24 | 15.10 | 127.86 |
| 495 | 33.34 | 136.54 | 2.19 | 1.24 | 15.55 | 127.94 |
| 496 | 33.38 | 135.73 | 2.19 | 1.24 | 15.74 | 128.03 |
| 497 | 33.48 | 137.75 | 2.22 | 1.24 | 15.68 | 128.19 |
| 498 | 33.58 | 141.70 | 2.30 | 1.24 | 15.42 | 128.42 |
| 499 | 33.63 | 146.25 | 2.34 | 1.24 | 15.06 | 128.72 |
| 500 | 33.73 | 152.23 | 2.43 | 1.24 | 14.62 | 129.02 |
| 501 | 33.82 | 158.70 | 2.51 | 1.24 | 14.13 | 129.36 |
| 502 | 33.87 | 165.89 | 2.57 | 1.24 | 13.67 | 129.70 |
| 503 | 33.96 | 172.57 | 2.69 | 1.24 | 13.23 | 130.04 |
| 504 | 34.02 | 179.65 | 2.77 | 1.24 | 12.84 | 130.48 |
| 505 | 34.11 | 189.47 | 2.95 | 1.24 | 12.43 | 131.00 |
| 506 | 34.18 | 200.91 | 3.15 | 1.24 | 12.08 | 131.61 |
| 507 | 34.26 | 211.03 | 3.36 | 1.24 | 11.89 | 132.25 |
| 508 | 34.35 | 219.33 | 3.65 | 1.24 | 11.82 | 132.88 |
| 509 | 34.44 | 227.93 | 3.92 | 1.34 | 11.72 | 133.37 |
| 510 | 34.49 | 235.22 | 3.98 | 1.34 | 11.56 | 133.69 |
| 511 | 34.59 | 238.66 | 4.05 | 1.34 | 11.45 | 133.86 |
| 512 | 34.69 | 239.88 | 4.13 | 1.34 | 11.44 | 133.98 |
| 513 | 34.76 | 241.39 | 4.15 | 1.34 | 11.40 | 134.01 |
| 514 | 34.83 | 241.50 | 4.07 | 1.43 | 11.43 | 134.00 |
| 515 | 34.93 | 238.86 | 4.12 | 1.43 | 11.44 | 133.81 |
| 516 | 35.02 | 233.50 | 3.89 | 1.43 | 11.54 | 133.60 |
| 517 | 35.12 | 229.05 | 3.79 | 1.43 | 11.46 | 133.22 |
| 518 | 35.22 | 226.72 | 3.60 | 1.43 | 11.42 | 132.94 |
| 519 | 35.30 | 223.58 | 3.51 | 1.43 | 11.44 | 132.63 |
| 520 | 35.38 | 216.29 | 3.41 | 1.43 | 12.34 | 132.31 |
| 521 | 35.43 | 185.73 | 3.36 | 1.43 | 13.07 | 132.03 |
| 522 | 35.46 | 192.21 | 3.30 | 1.53 | 13.71 | 131.78 |
| 523 | 35.51 | 190.18 | 3.21 | 1.62 | 13.68 | 131.56 |
| 524 | 35.56 | 179.15 | 3.11 | 1.62 | 14.30 | 131.05 |
| 525 | 35.66 | 160.93 | 2.83 | 1.53 | 15.30 | 130.47 |
| 526 | 35.70 | 150.40 | 2.73 | 1.53 | 16.62 | 129.73 |
| 527 | 35.80 | 133.20 | 2.53 | 1.53 | 18.63 | 129.08 |
| 528 | 35.89 | 111.94 | 2.45 | 1.53 | 21.97 | 128.26 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 529 | 35.96 | 88.76 | 2.31 | 1.53 | 26.84 | 127.15 |
| 530 | 36.04 | 66.50 | 1.99 | 1.43 | 32.56 | 125.33 |
| 531 | 36.14 | 49.39 | 1.45 | 1.43 | 38.50 | 123.16 |
| 532 | 36.19 | 40.49 | 1.23 | 1.43 | 42.06 | 121.28 |
| 533 | 36.28 | 40.49 | 1.16 | 1.43 | 44.05 | 120.76 |
| 534 | 36.33 | 40.49 | 1.27 | 1.43 | 43.63 | 120.56 |
| 535 | 36.42 | 40.49 | 1.14 | 1.43 | 42.36 | 120.82 |
| 536 | 36.48 | 45.85 | 1.23 | 1.43 | 39.85 | 121.28 |
| 537 | 36.52 | 51.52 | 1.40 | 1.43 | 38.41 | 122.62 |
| 538 | 36.62 | 55.67 | 1.74 | 1.43 | 38.39 | 123.71 |
| 539 | 36.68 | 55.06 | 1.84 | 1.43 | 39.88 | 124.37 |
| 540 | 36.77 | 51.42 | 1.88 | 1.43 | 40.89 | 124.37 |
| 541 | 36.86 | 51.92 | 1.78 | 1.43 | 39.71 | 124.46 |
| 542 | 36.90 | 60.53 | 1.84 | 1.53 | 32.23 | 124.83 |
| 543 | 37.00 | 90.49 | 1.76 | 1.53 | 21.98 | 125.79 |
| 544 | 37.10 | 143.32 | 1.82 | 1.62 | 14.18 | 126.63 |
| 545 | 37.20 | 187.14 | 1.82 | 1.53 | 9.48 | 127.07 |
| 546 | 37.29 | 217.10 | 1.62 | 1.53 | 7.15 | 127.31 |
| 547 | 37.39 | 234.82 | 1.72 | 1.53 | 6.16 | 127.69 |
| 548 | 37.49 | 245.04 | 1.93 | 1.53 | 6.15 | 128.39 |
| 549 | 37.53 | 245.80 | 2.08 | 1.53 | 6.43 | 129.01 |
| 550 | 37.58 | 245.80 | 2.19 | 1.43 | 6.79 | 129.47 |
| 551 | 37.62 | 246.56 | 2.33 | 1.43 | 7.05 | 129.90 |
| 552 | 37.69 | 251.11 | 2.46 | 1.43 | 7.41 | 130.49 |
| 553 | 37.77 | 253.95 | 2.76 | 1.43 | 7.74 | 131.04 |
| 554 | 37.82 | 255.46 | 2.89 | 1.34 | 8.12 | 131.53 |
| 555 | 37.87 | 255.46 | 3.00 | 1.34 | 8.40 | 131.80 |
| 556 | 37.91 | 253.54 | 3.09 | 1.34 | 8.73 | 131.98 |
| 557 | 37.97 | 249.09 | 3.14 | 1.34 | 9.14 | 132.07 |
| 558 | 38.06 | 242.00 | 3.17 | 1.43 | 9.58 | 132.05 |
| 559 | 38.10 | 234.61 | 3.14 | 1.34 | 9.96 | 131.95 |
| 560 | 38.17 | 230.06 | 3.08 | 1.34 | 10.09 | 131.72 |
| 561 | 38.25 | 227.93 | 2.95 | 1.34 | 9.95 | 131.37 |
| 562 | 38.35 | 226.21 | 2.75 | 1.34 | 9.74 | 130.98 |
| 563 | 38.40 | 223.18 | 2.65 | 1.34 | 9.59 | 130.66 |
| 564 | 38.46 | 220.85 | 2.61 | 1.34 | 9.55 | 130.46 |
| 565 | 38.54 | 220.85 | 2.57 | 1.34 | 9.50 | 130.34 |
| 566 | 38.60 | 220.85 | 2.53 | 1.34 | 9.36 | 130.20 |
| 567 | 38.69 | 220.85 | 2.46 | 1.34 | 9.14 | 130.07 |
| 568 | 38.74 | 224.90 | 2.42 | 1.34 | 8.84 | 129.97 |
| 569 | 38.83 | 228.95 | 2.40 | 1.34 | 8.66 | 130.01 |
| 570 | 38.88 | 229.65 | 2.47 | 1.34 | 8.43 | 129.87 |
| 571 | 38.97 | 228.95 | 2.27 | 1.43 | 8.33 | 129.71 |
| 572 | 39.02 | 227.63 | 2.26 | 1.43 | 8.17 | 129.42 |
| 573 | 39.11 | 225.10 | 2.21 | 1.43 | 8.23 | 129.25 |
| 574 | 39.16 | 220.54 | 2.14 | 1.43 | 8.40 | 128.95 |
| 575 | 39.23 | 209.82 | 2.04 | 1.43 | 9.12 | 128.58 |
| 576 | 39.24 | 186.03 | 2.02 | 1.43 | 9.26 | 128.31 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 577 | 39.28 | 206.53 | 1.96 | 1.43 | 9.26 | 128.10 |
| 578 | 39.32 | 203.24 | 1.90 | 1.43 | 8.75 | 127.86 |
| 579 | 39.39 | 195.95 | 1.80 | 1.43 | 9.08 | 127.52 |
| 580 | 39.47 | 184.41 | 1.77 | 1.43 | 9.80 | 127.22 |
| 581 | 39.54 | 171.46 | 1.78 | 1.43 | 10.93 | 127.03 |
| 582 | 39.62 | 158.50 | 1.78 | 1.43 | 12.28 | 126.82 |
| 583 | 39.71 | 145.24 | 1.76 | 1.43 | 13.78 | 126.57 |
| 584 | 39.76 | 133.40 | 1.75 | 1.43 | 15.25 | 126.29 |
| 585 | 39.85 | 124.80 | 1.72 | 1.43 | 16.63 | 126.05 |
| 586 | 39.90 | 117.71 | 1.71 | 1.43 | 17.85 | 125.82 |
| 587 | 40.00 | 111.03 | 1.69 | 1.34 | 19.15 | 125.63 |
| 588 | 40.06 | 104.35 | 1.69 | 1.34 | 20.49 | 125.46 |
| 589 | 40.15 | 98.68 | 1.69 | 1.34 | 21.96 | 125.31 |
| 590 | 40.21 | 92.91 | 1.69 | 1.34 | 23.70 | 125.27 |
| 591 | 40.29 | 86.84 | 1.76 | 1.34 | 25.91 | 125.29 |
| 592 | 40.35 | 79.96 | 1.83 | 1.34 | 28.93 | 125.45 |
| 593 | 40.43 | 72.17 | 1.95 | 1.34 | 31.85 | 125.15 |
| 594 | 40.52 | 64.47 | 1.72 | 1.34 | 35.38 | 124.58 |
| 595 | 40.58 | 54.86 | 1.64 | 1.34 | 39.26 | 123.64 |
| 596 | 40.67 | 46.25 | 1.54 | 1.34 | 44.53 | 122.80 |
| 597 | 40.77 | 39.47 | 1.43 | 1.34 | 48.71 | 122.20 |
| 598 | 40.84 | 39.12 | 1.45 | 1.34 | 51.09 | 121.91 |
| 599 | 40.89 | 38.77 | 1.46 | 1.24 | 47.89 | 122.14 |
| 600 | 40.94 | 48.89 | 1.45 | 1.24 | 41.53 | 122.58 |
| 601 | 41.03 | 61.54 | 1.47 | 1.24 | 34.10 | 123.11 |
| 602 | 41.08 | 73.89 | 1.47 | 1.24 | 28.70 | 123.52 |
| 603 | 41.14 | 83.60 | 1.45 | 1.15 | 25.34 | 123.76 |
| 604 | 41.22 | 88.56 | 1.45 | 1.15 | 23.58 | 123.93 |
| 605 | 41.28 | 90.89 | 1.47 | 1.15 | 23.00 | 124.13 |
| 606 | 41.33 | 91.80 | 1.53 | 1.05 | 23.16 | 124.56 |
| 607 | 41.42 | 93.22 | 1.69 | 1.05 | 23.59 | 125.16 |
| 608 | 41.47 | 95.85 | 1.84 | 1.05 | 23.66 | 125.86 |
| 609 | 41.52 | 101.92 | 1.97 | 1.05 | 22.91 | 126.69 |
| 610 | 41.62 | 114.27 | 2.20 | 1.05 | 21.31 | 127.57 |
| 611 | 41.67 | 130.16 | 2.38 | 1.05 | 19.54 | 128.55 |
| 612 | 41.76 | 145.55 | 2.62 | 1.05 | 17.95 | 129.34 |
| 613 | 41.82 | 157.59 | 2.74 | 1.05 | 16.90 | 130.00 |
| 614 | 41.90 | 165.99 | 2.90 | 1.05 | 16.15 | 130.44 |
| 615 | 41.99 | 172.67 | 2.96 | 1.05 | 15.70 | 130.73 |
| 616 | 42.05 | 176.01 | 2.98 | 1.05 | 15.44 | 130.86 |
| 617 | 42.15 | 175.71 | 3.00 | 0.96 | 15.47 | 130.91 |
| 618 | 42.23 | 173.89 | 3.02 | 0.96 | 15.76 | 130.92 |
| 619 | 42.30 | 170.34 | 3.03 | 0.96 | 16.20 | 130.85 |
| 620 | 42.38 | 164.37 | 2.97 | 0.96 | 16.79 | 130.64 |
| 621 | 42.48 | 156.17 | 2.87 | 0.96 | 17.75 | 130.21 |
| 622 | 42.57 | 140.79 | 2.70 | 0.96 | 19.03 | 129.66 |
| 623 | 42.64 | 128.95 | 2.56 | 0.86 | 20.48 | 129.02 |
| 624 | 42.72 | 120.14 | 2.42 | 0.86 | 21.44 | 128.37 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 625 | 42.82 | 114.47 | 2.21 | 0.86 | 22.03 | 127.72 |
| 626 | 42.90 | 109.51 | 2.08 | 0.86 | 22.42 | 127.19 |
| 627 | 42.97 | 106.07 | 2.04 | 0.86 | 23.04 | 126.89 |
| 628 | 43.06 | 102.53 | 2.03 | 0.86 | 23.94 | 126.76 |
| 629 | 43.15 | 98.28 | 2.05 | 0.86 | 24.28 | 126.30 |
| 630 | 43.20 | 95.44 | 1.73 | 0.86 | 23.92 | 125.87 |
| 631 | 43.30 | 99.49 | 1.72 | 0.86 | 21.66 | 125.62 |
| 632 | 43.40 | 117.61 | 1.75 | 0.86 | 18.56 | 126.10 |
| 633 | 43.48 | 142.51 | 1.83 | 0.96 | 16.70 | 126.59 |
| 634 | 43.51 | 137.14 | 1.89 | 0.96 | 15.94 | 126.91 |
| 635 | 43.52 | 137.65 | 1.91 | 0.86 | 15.16 | 127.23 |
| 636 | 43.56 | 163.87 | 1.98 | 0.86 | 13.67 | 127.68 |
| 637 | 43.61 | 178.84 | 2.08 | 0.86 | 11.96 | 128.22 |
| 638 | 43.67 | 193.82 | 2.13 | 0.86 | 10.83 | 128.59 |
| 639 | 43.72 | 206.98 | 2.13 | 0.86 | 9.87 | 128.82 |
| 640 | 43.80 | 217.20 | 2.15 | 0.86 | 9.14 | 128.98 |
| 641 | 43.85 | 225.30 | 2.16 | 0.86 | 8.63 | 129.13 |
| 642 | 43.90 | 231.68 | 2.18 | 0.86 | 8.26 | 129.25 |
| 643 | 43.94 | 236.74 | 2.19 | 0.86 | 7.97 | 129.33 |
| 644 | 43.99 | 240.69 | 2.18 | 0.86 | 7.76 | 129.35 |
| 645 | 44.08 | 242.00 | 2.18 | 0.86 | 7.68 | 129.38 |
| 646 | 44.14 | 241.90 | 2.20 | 0.86 | 7.83 | 129.54 |
| 647 | 44.22 | 240.59 | 2.33 | 0.86 | 8.11 | 129.75 |
| 648 | 44.28 | 238.66 | 2.39 | 0.86 | 8.47 | 129.97 |
| 649 | 44.33 | 235.63 | 2.43 | 0.86 | 8.80 | 130.11 |
| 650 | 44.40 | 232.69 | 2.50 | 0.86 | 9.29 | 130.33 |
| 651 | 44.48 | 228.44 | 2.64 | 0.86 | 9.67 | 130.62 |
| 652 | 44.52 | 232.74 | 2.75 | 0.86 | 10.35 | 131.05 |
| 653 | 44.61 | 224.49 | 3.00 | 0.96 | 10.26 | 131.06 |
| 654 | 44.72 | 232.79 | 2.65 | 0.96 | 10.27 | 131.18 |
| 655 | 44.77 | 237.24 | 2.86 | 0.96 | 9.91 | 131.18 |
| 656 | 44.91 | 238.36 | 2.94 | 1.05 | 10.09 | 131.47 |
| 657 | 44.95 | 237.95 | 2.96 | 1.05 | 10.63 | 131.50 |
| 658 | 45.02 | 218.72 | 2.98 | 1.05 | 10.98 | 131.47 |
| 659 | 45.04 | 225.50 | 2.97 | 1.15 | 13.35 | 131.14 |
| 660 | 45.06 | 152.63 | 2.96 | 1.15 | 12.86 | 131.13 |
| 661 | 45.11 | 232.29 | 2.89 | 1.15 | 12.30 | 131.08 |
| 662 | 45.15 | 240.38 | 2.84 | 1.15 | 9.78 | 131.30 |
| 663 | 45.21 | 247.16 | 2.81 | 1.15 | 9.27 | 131.31 |
| 664 | 45.25 | 253.14 | 2.82 | 1.15 | 8.95 | 131.37 |
| 665 | 45.30 | 256.98 | 2.86 | 1.15 | 8.80 | 131.48 |
| 666 | 45.35 | 258.70 | 2.90 | 1.15 | 8.79 | 131.59 |
| 667 | 45.41 | 258.40 | 2.92 | 1.15 | 8.84 | 131.65 |
| 668 | 45.49 | 258.10 | 2.93 | 1.15 | 8.94 | 131.65 |
| 669 | 45.55 | 254.45 | 2.91 | 1.15 | 9.06 | 131.57 |
| 670 | 45.63 | 249.80 | 2.86 | 1.15 | 9.25 | 131.42 |
| 671 | 45.69 | 244.23 | 2.81 | 1.15 | 9.48 | 131.22 |
| 672 | 45.78 | 236.94 | 2.74 | 1.15 | 9.80 | 131.01 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 673 | 45.84 | 228.64 | 2.69 | 1.15 | 10.17 | 130.69 |
| 674 | 45.93 | 218.52 | 2.57 | 1.15 | 10.59 | 130.25 |
| 675 | 46.02 | 205.87 | 2.39 | 1.15 | 11.15 | 129.68 |
| 676 | 46.08 | 190.89 | 2.26 | 1.15 | 11.83 | 128.94 |
| 677 | 46.16 | 174.39 | 2.03 | 1.15 | 12.80 | 128.17 |
| 678 | 46.24 | 157.89 | 1.90 | 1.15 | 14.14 | 127.35 |
| 679 | 46.31 | 139.07 | 1.81 | 1.15 | 16.32 | 126.66 |
| 680 | 46.41 | 117.21 | 1.75 | 1.05 | 19.70 | 126.05 |
| 681 | 46.48 | 95.75 | 1.74 | 1.05 | 24.72 | 125.44 |
| 682 | 46.56 | 74.29 | 1.72 | 1.05 | 31.32 | 124.66 |
| 683 | 46.65 | 57.08 | 1.60 | 1.05 | 39.23 | 123.40 |
| 684 | 46.75 | 42.81 | 1.33 | 1.05 | 46.43 | 121.67 |
| 685 | 46.84 | 36.34 | 1.06 | 1.05 | 55.36 | 119.83 |
| 686 | 46.94 | 30.67 | 0.95 | 1.05 | 60.33 | 118.19 |
| 687 | 47.02 | 25.20 | 0.82 | 1.15 | 66.74 | 116.92 |
| 688 | 47.08 | 21.46 | 0.75 | 1.15 | 74.89 | 115.79 |
| 689 | 47.12 | 17.41 | 0.72 | 1.15 | 81.21 | 115.04 |
| 690 | 47.16 | 17.36 | 0.69 | 1.05 | 83.23 | 114.56 |
| 691 | 47.21 | 18.72 | 0.65 | 1.05 | 82.03 | 114.08 |
| 692 | 47.27 | 17.31 | 0.59 | 1.05 | 81.52 | 113.39 |
| 693 | 47.35 | 16.30 | 0.53 | 1.05 | 83.53 | 112.58 |
| 694 | 47.40 | 15.59 | 0.49 | 1.05 | 83.45 | 111.48 |
| 695 | 47.50 | 15.28 | 0.39 | 1.05 | 82.43 | 110.45 |
| 696 | 47.55 | 15.18 | 0.36 | 1.05 | 80.62 | 109.38 |
| 697 | 47.61 | 14.98 | 0.33 | 1.05 | 80.14 | 108.87 |
| 698 | 47.69 | 14.78 | 0.32 | 1.05 | 80.47 | 108.49 |
| 699 | 47.76 | 14.37 | 0.31 | 1.05 | 81.28 | 108.16 |
| 700 | 47.83 | 13.97 | 0.29 | 1.05 | 81.76 | 107.60 |
| 701 | 47.93 | 13.66 | 0.26 | 1.05 | 81.12 | 106.97 |
| 702 | 48.02 | 13.87 | 0.24 | 1.05 | 80.49 | 106.61 |
| 703 | 48.09 | 13.87 | 0.26 | 1.05 | 79.44 | 106.28 |
| 704 | 48.18 | 13.87 | 0.22 | 0.96 | 80.27 | 106.53 |
| 705 | 48.27 | 13.76 | 0.27 | 0.96 | 81.39 | 107.03 |
| 706 | 48.37 | 13.97 | 0.31 | 0.96 | 83.22 | 107.94 |
| 707 | 48.46 | 14.17 | 0.33 | 0.96 | 84.23 | 108.58 |
| 708 | 48.52 | 14.17 | 0.35 | 0.96 | 85.01 | 108.99 |
| 709 | 48.60 | 14.17 | 0.36 | 0.96 | 85.57 | 109.30 |
| 710 | 48.70 | 14.37 | 0.37 | 0.96 | 85.68 | 109.56 |
| 711 | 48.79 | 14.57 | 0.38 | 0.96 | 85.16 | 109.83 |
| 712 | 48.85 | 14.98 | 0.40 | 0.96 | 84.80 | 110.40 |
| 713 | 48.94 | 15.59 | 0.45 | 0.86 | 84.36 | 111.35 |
| 714 | 49.04 | 16.60 | 0.53 | 0.86 | 82.26 | 112.03 |
| 715 | 49.13 | 17.81 | 0.50 | 0.86 | 82.44 | 114.35 |
| 716 | 49.23 | 20.45 | 0.95 | 0.86 | 79.90 | 116.80 |
| 717 | 49.33 | 25.10 | 1.19 | 0.86 | 78.26 | 119.08 |
| 718 | 49.38 | 26.52 | 1.32 | 0.86 | 79.49 | 120.23 |
| 719 | 49.42 | 22.98 | 1.49 | 0.86 | 79.52 | 121.11 |
| 720 | 49.48 | 28.24 | 1.64 | 0.76 | 79.69 | 121.78 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 721 | 49.53 | 28.85 | 1.70 | 0.76 | 76.78 | 122.38 |
| 722 | 49.58 | 29.25 | 1.78 | 0.76 | 76.54 | 122.73 |
| 723 | 49.63 | 30.16 | 1.86 | 0.76 | 76.14 | 123.06 |
| 724 | 49.72 | 30.87 | 1.90 | 0.76 | 75.17 | 123.25 |
| 725 | 49.77 | 31.68 | 1.88 | 0.76 | 74.33 | 123.29 |
| 726 | 49.83 | 31.68 | 1.86 | 0.76 | 74.18 | 123.23 |
| 727 | 49.92 | 30.87 | 1.85 | 0.76 | 75.14 | 123.07 |
| 728 | 49.97 | 29.55 | 1.80 | 0.76 | 75.30 | 122.90 |
| 729 | 50.04 | 30.72 | 1.75 | 0.76 | 76.58 | 122.68 |
| 730 | 50.11 | 28.14 | 1.74 | 0.76 | 75.95 | 122.69 |
| 731 | 50.20 | 30.57 | 1.79 | 0.76 | 74.75 | 122.53 |
| 732 | 50.27 | 31.88 | 1.62 | 0.76 | 72.22 | 122.03 |
| 733 | 50.34 | 29.86 | 1.37 | 0.76 | 71.16 | 120.74 |
| 734 | 50.45 | 26.72 | 1.07 | 0.76 | 72.38 | 119.07 |
| 735 | 50.54 | 23.68 | 0.89 | 0.76 | 75.35 | 117.45 |
| 736 | 50.59 | 20.75 | 0.82 | 0.76 | 79.17 | 116.17 |
| 737 | 50.68 | 18.93 | 0.71 | 0.76 | 82.34 | 115.07 |
| 738 | 50.79 | 18.02 | 0.62 | 0.76 | 83.79 | 114.12 |
| 739 | 50.88 | 17.41 | 0.60 | 0.76 | 83.70 | 113.63 |
| 740 | 50.98 | 17.97 | 0.60 | 0.86 | 84.20 | 113.54 |
| 741 | 51.07 | 17.51 | 0.60 | 0.86 | 82.59 | 113.17 |
| 742 | 51.17 | 17.91 | 0.50 | 0.86 | 77.88 | 112.22 |
| 743 | 51.24 | 19.84 | 0.38 | 0.86 | 73.04 | 111.69 |
| 744 | 51.33 | 20.75 | 0.47 | 0.86 | 72.41 | 112.26 |
| 745 | 51.46 | 19.94 | 0.60 | 0.86 | 75.43 | 113.32 |
| 746 | 51.46 | 19.53 | 0.60 | 0.86 | 78.27 | 114.06 |
| 747 | 51.51 | 19.89 | 0.66 | 0.86 | 79.25 | 114.37 |
| 748 | 51.56 | 19.84 | 0.68 | 0.86 | 80.43 | 114.92 |
| 749 | 51.65 | 19.84 | 0.75 | 0.86 | 81.58 | 115.41 |
| 750 | 51.71 | 20.14 | 0.80 | 0.86 | 82.75 | 115.96 |
| 751 | 51.79 | 20.24 | 0.85 | 0.86 | 82.76 | 116.41 |
| 752 | 51.85 | 21.05 | 0.88 | 0.96 | 82.60 | 117.17 |
| 753 | 51.94 | 22.37 | 1.05 | 0.96 | 82.55 | 118.05 |
| 754 | 51.99 | 22.87 | 1.16 | 0.96 | 82.91 | 119.26 |
| 755 | 52.09 | 24.39 | 1.38 | 0.96 | 83.97 | 120.45 |
| 756 | 52.19 | 25.20 | 1.63 | 0.96 | 79.61 | 121.96 |
| 757 | 52.28 | 33.60 | 1.89 | 1.05 | 72.62 | 123.41 |
| 758 | 52.35 | 41.19 | 2.10 | 1.05 | 70.52 | 124.45 |
| 759 | 52.43 | 34.41 | 2.30 | 1.05 | 71.21 | 125.03 |
| 760 | 52.52 | 35.53 | 2.36 | 1.05 | 74.91 | 125.21 |
| 761 | 52.62 | 35.53 | 2.39 | 1.05 | 74.30 | 125.23 |
| 762 | 52.72 | 35.73 | 2.30 | 1.05 | 73.23 | 125.06 |
| 763 | 52.81 | 36.64 | 2.18 | 1.05 | 76.25 | 125.06 |
| 764 | 52.91 | 30.36 | 2.50 | 1.05 | 84.74 | 125.89 |
| 765 | 53.00 | 26.92 | 3.37 | 1.05 | 78.34 | 127.32 |
| 766 | 53.10 | 54.35 | 3.37 | 1.15 | 54.98 | 129.03 |
| 767 | 53.20 | 105.77 | 3.09 | 1.15 | 36.28 | 130.96 |
| 768 | 53.29 | 164.47 | 4.18 | 1.15 | 25.56 | 132.47 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 769 | 53.38 | 221.05 | 4.12 | 1.24 | 20.37 | 133.80 |
| 770 | 53.46 | 256.07 | 4.20 | 1.24 | 17.07 | 134.82 |
| 771 | 53.53 | 303.03 | 5.14 | 1.24 | 16.36 | 136.29 |
| 772 | 53.63 | 317.00 | 6.49 | 1.34 | 15.39 | 137.26 |
| 773 | 53.73 | 349.49 | 5.84 | 1.43 | 13.15 | 137.28 |
| 774 | 53.82 | 418.82 | 4.63 | 1.53 | 10.93 | 136.47 |
| 775 | 53.92 | 396.66 | 4.29 | 1.62 | 10.04 | 135.51 |
| 776 | 53.94 | 347.57 | 4.04 | 1.72 | 10.76 | 134.94 |
| 777 | 53.96 | 336.23 | 3.96 | 1.53 | 11.60 | 134.54 |
| 778 | 53.97 | 324.90 | 3.90 | 1.82 | 10.87 | 134.48 |
| 779 | 54.05 | 386.03 | 3.80 | 1.91 | 9.65 | 134.60 |
| 780 | 54.08 | 421.76 | 3.84 | 2.01 | 7.98 | 134.88 |
| 781 | 54.13 | 470.95 | 3.88 | 2.01 | 6.82 | 135.32 |
| 782 | 54.19 | 526.82 | 4.09 | 2.10 | 6.18 | 136.15 |
| 783 | 54.25 | 558.50 | 4.85 | 2.10 | 6.33 | 136.53 |
| 784 | 54.28 | 487.24 | 4.52 | 2.20 | 6.83 | 136.70 |
| 785 | 54.29 | 486.79 | 4.52 | 2.20 | 7.28 | 136.40 |
| 786 | 54.34 | 486.33 | 4.52 | 2.20 | 7.28 | 136.41 |
| 787 | 54.35 | 487.45 | 4.52 | 2.20 | 7.16 | 136.45 |
| 788 | 54.40 | 502.73 | 4.55 | 2.29 | 6.91 | 136.58 |
| 789 | 54.44 | 524.39 | 4.66 | 2.29 | 6.59 | 136.78 |
| 790 | 54.49 | 539.67 | 4.74 | 2.39 | 6.33 | 136.88 |
| 791 | 54.53 | 542.71 | 4.62 | 2.39 | 6.16 | 137.00 |
| 792 | 54.57 | 556.27 | 4.81 | 2.68 | 6.01 | 137.19 |
| 793 | 54.58 | 575.70 | 5.00 | 2.96 | 6.08 | 137.28 |
| 794 | 54.63 | 571.25 | 5.32 | 3.06 | 6.35 | 137.28 |
| 795 | 54.68 | 535.62 | 5.13 | 3.15 | 7.02 | 137.28 |
| 796 | 54.73 | 501.92 | 5.33 | 3.35 | 7.61 | 137.28 |
| 797 | 54.78 | 493.82 | 5.24 | 3.25 | 7.81 | 137.28 |
| 798 | 54.83 | 503.13 | 4.96 | 3.35 | 8.02 | 137.28 |
| 799 | 54.88 | 483.80 | 5.42 | 3.25 | 8.15 | 137.28 |
| 800 | 54.92 | 504.35 | 5.80 | 3.35 | 8.44 | 137.28 |
| 801 | 54.97 | 513.76 | 5.91 | 3.35 | 8.28 | 137.28 |
| 802 | 55.02 | 514.17 | 5.71 | 3.35 | 8.29 | 137.28 |
| 803 | 55.12 | 512.24 | 5.99 | 3.35 | 9.19 | 137.28 |
| 804 | 55.17 | 437.14 | 6.44 | 3.35 | 10.90 | 137.28 |
| 805 | 55.25 | 397.97 | 6.94 | 3.54 | 12.33 | 137.28 |
| 806 | 55.31 | 396.35 | 6.00 | 3.63 | 12.48 | 137.28 |
| 807 | 55.36 | 388.16 | 5.24 | 3.73 | 11.51 | 136.87 |
| 808 | 55.45 | 379.86 | 4.35 | 3.82 | 10.76 | 135.80 |
| 809 | 55.50 | 375.10 | 3.96 | 3.82 | 10.78 | 135.09 |
| 810 | 55.60 | 342.61 | 4.16 | 3.82 | 11.41 | 134.98 |
| 811 | 55.65 | 335.83 | 4.33 | 3.82 | 12.01 | 134.55 |
| 812 | 55.71 | 318.11 | 3.48 | 3.73 | 11.81 | 133.90 |
| 813 | 55.75 | 318.32 | 3.23 | 4.01 | 11.15 | 133.00 |
| 814 | 55.79 | 324.59 | 3.09 | 4.01 | 10.75 | 132.84 |
| 815 | 55.84 | 332.28 | 3.22 | 4.01 | 10.43 | 132.92 |
| 816 | 55.89 | 340.38 | 3.26 | 4.11 | 10.29 | 133.07 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 817 | 55.90 | 341.19 | 3.24 | 4.30 | 10.16 | 133.10 |
| 818 | 55.94 | 341.70 | 3.23 | 4.30 | 10.40 | 133.09 |
| 819 | 55.99 | 325.71 | 3.29 | 4.40 | 10.86 | 133.10 |
| 820 | 56.03 | 315.28 | 3.33 | 4.40 | 11.37 | 133.06 |
| 821 | 56.08 | 312.45 | 3.28 | 4.40 | 11.60 | 132.92 |
| 822 | 56.14 | 307.08 | 3.17 | 4.40 | 11.73 | 132.73 |
| 823 | 56.22 | 299.39 | 3.13 | 4.40 | 11.94 | 132.53 |
| 824 | 56.28 | 293.01 | 3.09 | 4.49 | 12.14 | 132.38 |
| 825 | 56.33 | 290.28 | 3.03 | 4.40 | 12.22 | 132.35 |
| 826 | 56.38 | 294.23 | 3.11 | 4.40 | 12.04 | 132.26 |
| 827 | 56.45 | 297.47 | 2.97 | 4.40 | 11.65 | 132.30 |
| 828 | 56.52 | 312.14 | 3.01 | 4.40 | 11.06 | 132.37 |
| 829 | 56.62 | 327.93 | 3.08 | 4.40 | 10.51 | 132.50 |
| 830 | 56.66 | 335.32 | 3.02 | 4.40 | 9.79 | 132.45 |
| 831 | 56.73 | 351.82 | 2.83 | 4.40 | 9.62 | 132.89 |
| 832 | 56.81 | 362.85 | 3.53 | 4.49 | 9.77 | 133.43 |
| 833 | 56.95 | 356.47 | 3.65 | 4.40 | 10.06 | 134.06 |
| 834 | 57.00 | 370.75 | 3.68 | 4.40 | 10.03 | 134.48 |
| 835 | 57.09 | 389.98 | 4.06 | 4.40 | 10.22 | 134.71 |
| 836 | 57.19 | 358.40 | 4.02 | 4.59 | 10.60 | 134.88 |
| 837 | 57.27 | 357.18 | 4.00 | 4.49 | 11.00 | 134.55 |
| 838 | 57.35 | 346.35 | 3.69 | 4.59 | 10.13 | 133.80 |
| 839 | 57.44 | 369.23 | 2.85 | 4.49 | 9.47 | 132.97 |
| 840 | 57.50 | 352.73 | 2.88 | 4.59 | 8.69 | 132.46 |
| 841 | 57.52 | 370.95 | 2.99 | 4.30 | 8.68 | 133.16 |
| 842 | 57.58 | 410.42 | 3.60 | 4.30 | 8.49 | 134.41 |
| 843 | 57.63 | 446.56 | 4.36 | 4.30 | 8.42 | 135.32 |
| 844 | 57.72 | 439.07 | 4.21 | 4.40 | 8.40 | 135.58 |
| 845 | 57.77 | 431.17 | 3.97 | 4.40 | 8.22 | 135.14 |
| 846 | 57.82 | 430.77 | 3.67 | 4.40 | 7.74 | 134.36 |
| 847 | 57.91 | 426.51 | 3.05 | 4.40 | 6.86 | 133.51 |
| 848 | 57.96 | 452.73 | 2.75 | 4.40 | 6.01 | 132.56 |
| 849 | 58.02 | 449.09 | 2.48 | 4.40 | 5.35 | 132.23 |
| 850 | 58.09 | 474.69 | 2.59 | 4.49 | 5.13 | 132.30 |
| 851 | 58.16 | 483.80 | 2.77 | 4.49 | 4.92 | 132.61 |
| 852 | 58.25 | 495.95 | 2.73 | 4.49 | 5.00 | 132.98 |
| 853 | 58.30 | 493.42 | 2.98 | 4.49 | 5.44 | 133.54 |
| 854 | 58.40 | 473.38 | 3.46 | 4.49 | 5.94 | 133.95 |
| 855 | 58.50 | 471.86 | 3.32 | 4.49 | 6.39 | 134.14 |
| 856 | 58.56 | 460.12 | 3.32 | 4.49 | 6.35 | 134.03 |
| 857 | 58.64 | 470.34 | 3.32 | 4.49 | 6.52 | 134.15 |
| 858 | 58.73 | 463.76 | 3.50 | 4.68 | 6.66 | 134.73 |
| 859 | 58.78 | 490.08 | 4.08 | 4.68 | 6.43 | 134.94 |
| 860 | 58.88 | 510.42 | 3.53 | 4.68 | 6.01 | 135.03 |
| 861 | 58.97 | 519.43 | 3.50 | 4.78 | 5.46 | 134.39 |
| 862 | 59.07 | 503.03 | 3.11 | 4.78 | 5.31 | 133.97 |
| 863 | 59.13 | 496.05 | 2.99 | 4.78 | 5.28 | 133.42 |
| 864 | 59.23 | 481.47 | 2.88 | 4.78 | 5.21 | 132.95 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 865 | 59.31 | 476.41 | 2.60 | 4.78 | 5.30 | 132.24 |
| 866 | 59.38 | 435.32 | 2.31 | 4.78 | 5.27 | 131.56 |
| 867 | 59.41 | 439.12 | 2.27 | 4.78 | 5.38 | 131.23 |
| 868 | 59.46 | 442.91 | 2.34 | 4.78 | 5.29 | 131.28 |
| 869 | 59.51 | 448.48 | 2.34 | 4.78 | 5.27 | 131.25 |
| 870 | 59.57 | 439.07 | 2.23 | 4.78 | 5.63 | 132.20 |
| 871 | 59.66 | 467.91 | 3.25 | 4.87 | 5.58 | 132.94 |
| 872 | 59.75 | 505.97 | 3.06 | 4.97 | 6.03 | 134.45 |
| 873 | 59.80 | 502.83 | 4.04 | 4.97 | 6.32 | 135.37 |
| 874 | 59.85 | 510.42 | 4.53 | 4.97 | 6.89 | 136.20 |
| 875 | 59.91 | 512.45 | 4.44 | 4.97 | 7.09 | 136.30 |
| 876 | 59.99 | 489.57 | 4.24 | 4.97 | 7.40 | 136.48 |
| 877 | 60.05 | 494.33 | 4.91 | 4.87 | 8.36 | 136.97 |
| 878 | 60.09 | 458.80 | 5.56 | 4.78 | 9.17 | 137.25 |
| 879 | 60.14 | 440.99 | 5.00 | 4.78 | 9.81 | 137.14 |
| 880 | 60.19 | 433.30 | 4.90 | 4.78 | 9.70 | 136.76 |
| 881 | 60.22 | 439.07 | 4.84 | 4.78 | 9.61 | 136.51 |
| 882 | 60.28 | 430.16 | 4.56 | 4.78 | 10.15 | 136.19 |
| 883 | 60.33 | 369.53 | 4.52 | 4.78 | 11.14 | 135.77 |
| 884 | 60.38 | 343.82 | 4.41 | 4.78 | 12.93 | 135.37 |
| 885 | 60.42 | 303.34 | 4.35 | 4.68 | 14.24 | 134.92 |
| 886 | 60.48 | 281.88 | 4.12 | 4.68 | 14.94 | 133.83 |
| 887 | 60.57 | 260.63 | 2.98 | 4.59 | 14.40 | 131.99 |
| 888 | 60.66 | 244.74 | 2.02 | 4.59 | 13.41 | 129.58 |
| 889 | 60.68 | 226.11 | 1.72 | 4.49 | 12.77 | 127.88 |
| 890 | 60.69 | 225.45 | 1.67 | 4.01 | 12.50 | 126.95 |
| 891 | 60.74 | 224.80 | 1.43 | 4.11 | 12.59 | 126.30 |
| 892 | 60.79 | 202.83 | 1.36 | 4.21 | 12.85 | 125.42 |
| 893 | 60.84 | 190.99 | 1.24 | 4.11 | 13.42 | 124.52 |
| 894 | 60.89 | 182.49 | 1.05 | 4.11 | 13.76 | 123.73 |
| 895 | 60.98 | 173.38 | 1.04 | 4.01 | 14.35 | 123.40 |
| 896 | 61.03 | 167.00 | 1.14 | 4.01 | 16.66 | 125.09 |
| 897 | 61.08 | 163.66 | 1.94 | 4.01 | 20.32 | 128.00 |
| 898 | 61.18 | 163.76 | 3.09 | 3.92 | 22.76 | 129.84 |
| 899 | 61.23 | 166.29 | 2.90 | 3.92 | 24.31 | 131.32 |
| 900 | 61.31 | 174.39 | 3.66 | 3.92 | 20.35 | 131.18 |
| 901 | 61.42 | 241.39 | 2.47 | 3.92 | 15.65 | 131.06 |
| 902 | 61.47 | 293.32 | 2.18 | 4.01 | 10.48 | 129.51 |
| 903 | 61.51 | 326.62 | 1.66 | 3.92 | 7.95 | 129.12 |
| 904 | 61.54 | 373.78 | 1.86 | 3.73 | 6.66 | 129.28 |
| 905 | 61.57 | 397.87 | 2.12 | 3.73 | 6.17 | 130.14 |
| 906 | 61.58 | 415.68 | 2.20 | 3.54 | 5.00 | 130.33 |
| 907 | 61.61 | 442.20 | 1.90 | 3.54 | 6.02 | 129.76 |
| 908 | 61.63 | 322.26 | 1.78 | 2.77 | 6.49 | 129.08 |
| 909 | 61.63 | 338.36 | 1.80 | 2.77 | 11.34 | 128.31 |
| 910 | 61.66 | 112.95 | 1.97 | 2.20 | 16.91 | 128.00 |
| 911 | 61.67 | 122.67 | 2.10 | 2.20 | 26.40 | 127.65 |
| 912 | 61.70 | 152.93 | 2.30 | 2.20 | 22.91 | 128.46 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 913 | 61.71 | 183.20 | 2.33 | 2.20 | 19.72 | 129.29 |
| 914 | 61.76 | 206.48 | 2.50 | 2.10 | 17.47 | 129.99 |
| 915 | 61.80 | 229.45 | 2.69 | 2.01 | 15.78 | 130.50 |
| 916 | 61.84 | 250.50 | 2.60 | 2.01 | 13.82 | 130.39 |
| 917 | 61.86 | 271.15 | 2.16 | 2.01 | 11.07 | 129.64 |
| 918 | 61.93 | 317.51 | 1.72 | 2.01 | 8.65 | 128.83 |
| 919 | 61.98 | 348.28 | 1.71 | 2.01 | 5.00 | 128.76 |
| 920 | 62.04 | 407.39 | 1.86 | 2.01 | 5.00 | 130.00 |
| 921 | 62.09 | 460.93 | 2.44 | 2.10 | 5.00 | 130.94 |
| 922 | 62.14 | 486.94 | 2.29 | 2.01 | 4.65 | 131.59 |
| 923 | 62.19 | 497.77 | 2.32 | 2.01 | 4.30 | 131.67 |
| 924 | 62.24 | 512.55 | 2.43 | 2.01 | 4.19 | 131.86 |
| 925 | 62.26 | 516.39 | 2.43 | 2.01 | 4.03 | 131.99 |
| 926 | 62.29 | 528.94 | 2.40 | 2.10 | 4.03 | 131.96 |
| 927 | 62.38 | 511.74 | 2.40 | 2.20 | 4.39 | 132.48 |
| 928 | 62.44 | 506.37 | 2.97 | 2.10 | 5.19 | 132.83 |
| 929 | 62.46 | 452.63 | 2.92 | 2.10 | 5.89 | 133.06 |
| 930 | 62.47 | 448.12 | 2.80 | 1.24 | 6.21 | 132.63 |
| 931 | 62.51 | 443.62 | 2.61 | 1.43 | 5.98 | 132.52 |
| 932 | 62.56 | 469.23 | 2.76 | 1.53 | 5.91 | 132.86 |
| 933 | 62.60 | 479.04 | 3.12 | 1.53 | 5.80 | 133.25 |
| 934 | 62.65 | 484.51 | 2.99 | 1.53 | 5.69 | 133.25 |
| 935 | 62.70 | 481.58 | 2.73 | 1.53 | 5.44 | 132.87 |
| 936 | 62.75 | 480.87 | 2.67 | 1.53 | 5.25 | 132.60 |
| 937 | 62.80 | 486.64 | 2.68 | 1.62 | 4.98 | 132.62 |
| 938 | 62.85 | 516.90 | 2.69 | 1.62 | 4.37 | 132.78 |
| 939 | 62.89 | 572.26 | 2.69 | 1.72 | 3.80 | 133.35 |
| 940 | 62.97 | 618.32 | 3.10 | 1.82 | 3.40 | 134.28 |
| 941 | 63.04 | 668.31 | 3.58 | 1.82 | 3.09 | 135.14 |
| 942 | 63.09 | 716.80 | 3.59 | 1.82 | 2.87 | 135.70 |
| 943 | 63.13 | 724.18 | 3.74 | 1.91 | 2.94 | 136.16 |
| 944 | 63.19 | 705.46 | 4.21 | 1.91 | 3.36 | 136.94 |
| 945 | 63.23 | 719.83 | 4.89 | 1.91 | 3.84 | 137.28 |
| 946 | 63.28 | 735.32 | 5.37 | 1.91 | 4.17 | 137.28 |
| 947 | 63.32 | 725.10 | 5.58 | 2.01 | 3.85 | 137.28 |
| 948 | 63.38 | 727.02 | 3.92 | 2.10 | 2.64 | 135.83 |
| 949 | 63.44 | 724.79 | 1.47 | 2.10 | 1.89 | 134.28 |
| 950 | 63.52 | 728.13 | 3.49 | 2.29 | 1.92 | 134.03 |
| 951 | 63.57 | 693.42 | 3.66 | 2.68 | 2.71 | 135.18 |
| 952 | 63.66 | 670.44 | 3.03 | 2.68 | 3.13 | 134.92 |
| 953 | 63.73 | 614.77 | 3.31 | 2.77 | 4.81 | 133.80 |
| 954 | 63.76 | 319.53 | 2.86 | 3.15 | 6.52 | 133.28 |
| 955 | 63.76 | 432.39 | 2.88 | 3.15 | 7.53 | 132.72 |
| 956 | 63.78 | 483.50 | 2.92 | 3.15 | 6.10 | 133.35 |
| 957 | 63.81 | 499.59 | 3.22 | 3.15 | 5.61 | 134.22 |
| 958 | 63.85 | 555.36 | 3.75 | 3.15 | 5.72 | 134.88 |
| 959 | 63.86 | 524.19 | 3.76 | 3.15 | 6.14 | 135.34 |
| 960 | 63.91 | 488.05 | 3.95 | 3.25 | 6.96 | 135.56 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 961 | 63.94 | 481.37 | 4.28 | 3.06 | 7.58 | 135.81 |
| 962 | 63.95 | 481.78 | 4.31 | 2.96 | 7.84 | 136.00 |
| 963 | 64.00 | 477.73 | 4.30 | 2.96 | 7.92 | 135.94 |
| 964 | 64.02 | 469.13 | 4.22 | 2.96 | 7.88 | 135.77 |
| 965 | 64.05 | 472.67 | 4.05 | 2.96 | 7.62 | 135.55 |
| 966 | 64.09 | 485.42 | 3.89 | 2.96 | 7.39 | 135.35 |
| 967 | 64.11 | 476.31 | 3.87 | 3.06 | 7.15 | 135.11 |
| 968 | 64.15 | 478.34 | 3.65 | 3.06 | 6.89 | 134.84 |
| 969 | 64.20 | 492.00 | 3.47 | 3.06 | 6.53 | 134.82 |
| 970 | 64.25 | 512.45 | 3.75 | 3.06 | 6.14 | 134.94 |
| 971 | 64.29 | 533.19 | 3.70 | 3.06 | 5.78 | 135.26 |
| 972 | 64.34 | 561.33 | 3.79 | 3.25 | 5.01 | 135.28 |
| 973 | 64.43 | 616.49 | 3.54 | 3.25 | 4.34 | 135.35 |
| 974 | 64.48 | 639.47 | 3.59 | 3.35 | 3.80 | 135.20 |
| 975 | 64.53 | 636.74 | 3.43 | 3.35 | 3.33 | 134.70 |
| 976 | 64.58 | 651.72 | 2.78 | 3.35 | 3.10 | 134.64 |
| 977 | 64.63 | 676.61 | 3.45 | 3.44 | 2.91 | 135.01 |
| 978 | 64.68 | 713.46 | 3.79 | 3.44 | 3.16 | 136.27 |
| 979 | 64.73 | 738.66 | 4.50 | 3.44 | 3.23 | 136.63 |
| 980 | 64.77 | 703.94 | 3.99 | 3.44 | 3.00 | 136.64 |
| 981 | 64.82 | 764.06 | 3.71 | 3.63 | 2.55 | 136.18 |
| 982 | 64.87 | 785.42 | 3.67 | 3.63 | 2.65 | 135.90 |
| 983 | 64.89 | 648.27 | 3.66 | 3.82 | 2.87 | 135.82 |
| 984 | 64.93 | 708.09 | 3.69 | 3.82 | 3.20 | 135.78 |
| 985 | 64.94 | 712.24 | 3.73 | 3.92 | 2.93 | 135.98 |
| 986 | 64.98 | 726.92 | 3.83 | 3.92 | 2.86 | 136.11 |
| 987 | 64.99 | 737.75 | 3.84 | 4.01 | 2.79 | 136.19 |
| 988 | 65.03 | 737.24 | 3.82 | 4.01 | 2.77 | 136.10 |
| 989 | 65.08 | 721.96 | 3.70 | 4.11 | 2.68 | 135.79 |
| 990 | 65.13 | 721.76 | 3.39 | 4.01 | 2.53 | 135.18 |
| 991 | 65.17 | 702.63 | 3.00 | 4.21 | 2.31 | 134.38 |
| 992 | 65.22 | 686.23 | 2.70 | 4.30 | 2.22 | 133.76 |
| 993 | 65.23 | 678.84 | 2.70 | 4.30 | 2.19 | 133.47 |
| 994 | 65.28 | 679.40 | 2.71 | 4.40 | 2.24 | 133.50 |
| 995 | 65.32 | 679.40 | 2.75 | 4.49 | 2.48 | 134.03 |
| 996 | 65.37 | 679.95 | 3.32 | 4.49 | 2.63 | 134.36 |
| 997 | 65.42 | 680.97 | 3.11 | 4.49 | 2.78 | 134.78 |
| 998 | 65.47 | 692.71 | 3.26 | 4.49 | 2.89 | 134.63 |
| 999 | 65.48 | 641.09 | 3.19 | 4.40 | 3.08 | 134.58 |
| 1000 | 65.49 | 637.65 | 3.11 | 4.01 | 3.14 | 134.13 |
| 1001 | 65.52 | 637.65 | 2.79 | 4.40 | 3.09 | 133.95 |
| 1002 | 65.57 | 634.21 | 2.97 | 4.30 | 1.61 | 130.82 |
| 1003 | 65.62 | 664.97 | 0.00 | 4.40 | 0.17 | 126.03 |
| 1004 | 65.67 | 684.10 | 0.00 | 4.49 | N/A | 87.36 |
| 1005 | 65.69 | 698.07 | 0.00 | 4.59 | N/A | 87.36 |
| 1006 | 65.72 | 709.31 | 0.00 | 4.59 | N/A | 87.36 |
| 1007 | 65.77 | 749.49 | 0.00 | 4.59 | N/A | 87.36 |
| 1008 | 65.82 | 797.77 | 0.00 | 4.59 | N/A | 87.36 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1009 | 65.86 | 824.89 | 0.00 | 4.59 | N/A | 87.36 |
| 1010 | 65.86 | 813.05 | 0.00 | 4.59 | N/A | 87.36 |
| 1011 | 65.91 | 862.75 | 0.00 | 4.68 | N/A | 87.36 |
| 1012 | 65.96 | 886.13 | 0.00 | 4.78 | N/A | 87.36 |

**Abbreviations**

| | |
|---|---|
| Depth: | Depth from free surface, at which CPT was performed (ft) |
| $q_c$: | Measured cone resistance (tsf) |
| $f_s$: | Sleeve friction resistance (tsf) |
| u: | Pore pressure (tsf) |
| Fines content: | Percentage of fines in soil (%) |
| Unit weight: | Bulk soil unit weight (pcf) |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data ::**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.01 | 0.00 | 0.00 | 0.00 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 2 | 0.04 | 0.00 | 0.00 | 0.00 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 3 | 0.08 | 0.00 | 0.00 | 0.00 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 4 | 0.10 | 0.01 | 0.00 | 0.01 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 5 | 0.13 | 0.01 | 0.00 | 0.01 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 6 | 0.18 | 0.01 | 0.00 | 0.01 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 7 | 0.22 | 0.01 | 0.00 | 0.01 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 8 | 0.27 | 0.02 | 0.00 | 0.02 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 9 | 0.33 | 0.02 | 0.00 | 0.02 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 10 | 0.36 | 0.02 | 0.00 | 0.02 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | Yes |
| 11 | 0.37 | 0.02 | 0.00 | 0.02 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | Yes |
| 12 | 0.38 | 0.02 | 0.00 | 0.02 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | Yes |
| 13 | 0.42 | 0.02 | 0.00 | 0.02 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | Yes |
| 14 | 0.44 | 0.02 | 0.00 | 0.02 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | Yes |
| 15 | 0.47 | 0.03 | 0.00 | 0.03 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | Yes |
| 16 | 0.47 | 0.03 | 0.00 | 0.03 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | Yes |
| 17 | 0.52 | 0.03 | 0.00 | 0.03 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | Yes |
| 18 | 0.56 | 0.03 | 0.00 | 0.03 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | Yes |
| 19 | 0.58 | 0.03 | 0.00 | 0.03 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | Yes |
| 20 | 0.61 | 0.03 | 0.00 | 0.03 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | Yes |
| 21 | 0.66 | 0.04 | 0.00 | 0.04 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | Yes |
| 22 | 0.76 | 0.04 | 0.00 | 0.04 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | Yes |
| 23 | 0.80 | 0.04 | 0.00 | 0.04 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 24 | 0.81 | 0.04 | 0.00 | 0.04 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 25 | 0.85 | 0.05 | 0.00 | 0.05 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 26 | 0.86 | 0.05 | 0.00 | 0.05 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 27 | 0.90 | 0.05 | 0.00 | 0.05 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 28 | 0.95 | 0.05 | 0.00 | 0.05 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 29 | 1.00 | 0.05 | 0.00 | 0.05 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 30 | 1.05 | 0.06 | 0.00 | 0.06 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 31 | 1.14 | 0.06 | 0.00 | 0.06 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 32 | 1.24 | 0.07 | 0.00 | 0.07 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 33 | 1.31 | 0.07 | 0.00 | 0.07 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 34 | 1.36 | 0.07 | 0.00 | 0.07 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 35 | 1.37 | 0.07 | 0.00 | 0.07 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 36 | 1.39 | 0.07 | 0.00 | 0.07 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 37 | 1.43 | 0.08 | 0.00 | 0.08 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 38 | 1.44 | 0.08 | 0.00 | 0.08 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 39 | 1.49 | 0.08 | 0.00 | 0.08 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 40 | 1.53 | 0.08 | 0.00 | 0.08 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 41 | 1.58 | 0.08 | 0.00 | 0.08 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 42 | 1.63 | 0.09 | 0.00 | 0.09 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 43 | 1.68 | 0.09 | 0.00 | 0.09 | 1.00 | 0.409 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 44 | 1.72 | 0.09 | 0.00 | 0.09 | 1.00 | 0.409 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 45 | 1.77 | 0.09 | 0.00 | 0.09 | 1.00 | 0.409 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 46 | 1.82 | 0.10 | 0.00 | 0.10 | 1.00 | 0.409 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 47 | 1.86 | 0.10 | 0.00 | 0.10 | 1.00 | 0.409 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 48 | 1.92 | 0.10 | 0.00 | 0.10 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 49 | 1.97 | 0.10 | 0.00 | 0.10 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 50 | 2.01 | 0.11 | 0.00 | 0.11 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 51 | 2.09 | 0.11 | 0.00 | 0.11 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 52 | 2.16 | 0.11 | 0.00 | 0.11 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 53 | 2.20 | 0.12 | 0.00 | 0.12 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 54 | 2.25 | 0.12 | 0.00 | 0.12 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 55 | 2.31 | 0.12 | 0.00 | 0.12 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 56 | 2.37 | 0.13 | 0.00 | 0.13 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 57 | 2.40 | 0.13 | 0.00 | 0.13 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 58 | 2.46 | 0.13 | 0.00 | 0.13 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 59 | 2.54 | 0.13 | 0.00 | 0.13 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 60 | 2.59 | 0.14 | 0.00 | 0.14 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 61 | 2.69 | 0.14 | 0.00 | 0.14 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 62 | 2.74 | 0.15 | 0.00 | 0.15 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 63 | 2.83 | 0.15 | 0.00 | 0.15 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 64 | 2.88 | 0.15 | 0.00 | 0.15 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 65 | 2.98 | 0.16 | 0.00 | 0.16 | 1.00 | 0.407 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 66 | 3.03 | 0.16 | 0.00 | 0.16 | 0.99 | 0.407 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 67 | 3.12 | 0.17 | 0.00 | 0.17 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 68 | 3.21 | 0.17 | 0.00 | 0.17 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 69 | 3.27 | 0.17 | 0.00 | 0.17 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 70 | 3.34 | 0.18 | 0.00 | 0.18 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 71 | 3.41 | 0.18 | 0.00 | 0.18 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 72 | 3.51 | 0.19 | 0.00 | 0.19 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 73 | 3.55 | 0.19 | 0.00 | 0.19 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 74 | 3.65 | 0.19 | 0.00 | 0.19 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 75 | 3.75 | 0.20 | 0.00 | 0.20 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 76 | 3.83 | 0.20 | 0.00 | 0.20 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 77 | 3.94 | 0.21 | 0.00 | 0.21 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 78 | 4.04 | 0.22 | 0.00 | 0.22 | 0.99 | 0.406 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 79 | 4.13 | 0.22 | 0.00 | 0.22 | 0.99 | 0.406 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 80 | 4.24 | 0.23 | 0.00 | 0.23 | 0.99 | 0.406 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 81 | 4.38 | 0.23 | 0.00 | 0.23 | 0.99 | 0.406 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 82 | 4.50 | 0.24 | 0.00 | 0.24 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 83 | 4.62 | 0.25 | 0.00 | 0.25 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 84 | 4.71 | 0.25 | 0.00 | 0.25 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 85 | 4.75 | 0.26 | 0.00 | 0.26 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 86 | 4.84 | 0.26 | 0.00 | 0.26 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 87 | 4.89 | 0.26 | 0.00 | 0.26 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 88 | 4.94 | 0.27 | 0.00 | 0.27 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 89 | 4.98 | 0.27 | 0.00 | 0.27 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 90 | 5.07 | 0.27 | 0.00 | 0.27 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 91 | 5.13 | 0.28 | 0.00 | 0.28 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 92 | 5.17 | 0.28 | 0.00 | 0.28 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 93 | 5.27 | 0.28 | 0.00 | 0.28 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 94 | 5.32 | 0.29 | 0.00 | 0.29 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 95 | 5.42 | 0.29 | 0.00 | 0.29 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 96 | 5.46 | 0.30 | 0.00 | 0.30 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97 | 5.56 | 0.30 | 0.00 | 0.30 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 98 | 5.61 | 0.30 | 0.00 | 0.30 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 99 | 5.71 | 0.31 | 0.00 | 0.31 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 100 | 5.78 | 0.31 | 0.00 | 0.31 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 101 | 5.85 | 0.32 | 0.00 | 0.32 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 102 | 5.95 | 0.32 | 0.00 | 0.32 | 0.99 | 0.405 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 103 | 6.00 | 0.33 | 0.00 | 0.33 | 0.99 | 0.405 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 104 | 6.09 | 0.33 | 0.00 | 0.33 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 105 | 6.14 | 0.33 | 0.00 | 0.33 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 106 | 6.24 | 0.34 | 0.00 | 0.34 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 107 | 6.30 | 0.34 | 0.00 | 0.34 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 108 | 6.38 | 0.35 | 0.00 | 0.35 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 109 | 6.46 | 0.35 | 0.00 | 0.35 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 110 | 6.50 | 0.35 | 0.00 | 0.35 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 111 | 6.56 | 0.36 | 0.00 | 0.36 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 112 | 6.63 | 0.36 | 0.00 | 0.36 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 113 | 6.68 | 0.36 | 0.00 | 0.36 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 114 | 6.76 | 0.37 | 0.00 | 0.37 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 115 | 6.82 | 0.37 | 0.00 | 0.37 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 116 | 6.88 | 0.37 | 0.00 | 0.37 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 117 | 6.96 | 0.38 | 0.00 | 0.38 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 118 | 7.03 | 0.38 | 0.00 | 0.38 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 119 | 7.11 | 0.39 | 0.00 | 0.39 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 120 | 7.16 | 0.39 | 0.00 | 0.39 | 0.99 | 0.403 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 121 | 7.26 | 0.39 | 0.00 | 0.39 | 0.99 | 0.403 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 122 | 7.31 | 0.40 | 0.00 | 0.40 | 0.98 | 0.403 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 123 | 7.40 | 0.40 | 0.00 | 0.40 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 124 | 7.45 | 0.41 | 0.00 | 0.41 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 125 | 7.54 | 0.41 | 0.00 | 0.41 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 126 | 7.60 | 0.41 | 0.00 | 0.41 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 127 | 7.68 | 0.42 | 0.00 | 0.42 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 128 | 7.74 | 0.42 | 0.00 | 0.42 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 129 | 7.83 | 0.43 | 0.00 | 0.43 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 130 | 7.90 | 0.43 | 0.00 | 0.43 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 131 | 7.98 | 0.43 | 0.00 | 0.43 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 132 | 8.05 | 0.44 | 0.00 | 0.44 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 133 | 8.12 | 0.44 | 0.00 | 0.44 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 134 | 8.19 | 0.45 | 0.00 | 0.45 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 135 | 8.27 | 0.45 | 0.00 | 0.45 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 136 | 8.36 | 0.46 | 0.00 | 0.46 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 137 | 8.41 | 0.46 | 0.00 | 0.46 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 138 | 8.50 | 0.46 | 0.00 | 0.46 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 139 | 8.60 | 0.47 | 0.00 | 0.47 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 140 | 8.70 | 0.47 | 0.00 | 0.47 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 141 | 8.74 | 0.48 | 0.00 | 0.48 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 142 | 8.78 | 0.48 | 0.00 | 0.48 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 143 | 8.81 | 0.48 | 0.00 | 0.48 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 144 | 8.86 | 0.48 | 0.00 | 0.48 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 145 | 8.91 | 0.49 | 0.00 | 0.49 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 146 | 8.94 | 0.49 | 0.00 | 0.49 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 147 | 9.02 | 0.49 | 0.00 | 0.49 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 148 | 9.10 | 0.50 | 0.00 | 0.50 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 149 | 9.17 | 0.50 | 0.00 | 0.50 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 150 | 9.22 | 0.50 | 0.00 | 0.50 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 151 | 9.31 | 0.51 | 0.00 | 0.51 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 152 | 9.37 | 0.51 | 0.00 | 0.51 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 153 | 9.42 | 0.51 | 0.00 | 0.51 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 154 | 9.52 | 0.52 | 0.00 | 0.52 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 155 | 9.60 | 0.53 | 0.00 | 0.53 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 156 | 9.66 | 0.53 | 0.00 | 0.53 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 157 | 9.74 | 0.53 | 0.00 | 0.53 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 158 | 9.81 | 0.54 | 0.00 | 0.54 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 159 | 9.89 | 0.54 | 0.00 | 0.54 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 160 | 9.98 | 0.55 | 0.00 | 0.55 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 161 | 10.03 | 0.55 | 0.00 | 0.55 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 162 | 10.13 | 0.55 | 0.00 | 0.55 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 163 | 10.23 | 0.56 | 0.00 | 0.56 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 164 | 10.32 | 0.57 | 0.00 | 0.57 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 165 | 10.38 | 0.57 | 0.00 | 0.57 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 166 | 10.47 | 0.57 | 0.00 | 0.57 | 0.98 | 0.401 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 167 | 10.57 | 0.58 | 0.00 | 0.58 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 168 | 10.66 | 0.58 | 0.00 | 0.58 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 169 | 10.76 | 0.59 | 0.00 | 0.59 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 170 | 10.85 | 0.60 | 0.00 | 0.60 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 171 | 10.92 | 0.60 | 0.00 | 0.60 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 172 | 11.00 | 0.60 | 0.00 | 0.60 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 173 | 11.07 | 0.61 | 0.00 | 0.61 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 174 | 11.10 | 0.61 | 0.00 | 0.61 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 175 | 11.15 | 0.61 | 0.00 | 0.61 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 176 | 11.19 | 0.61 | 0.00 | 0.61 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 177 | 11.24 | 0.62 | 0.00 | 0.62 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 178 | 11.29 | 0.62 | 0.00 | 0.62 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 179 | 11.34 | 0.62 | 0.00 | 0.62 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 180 | 11.40 | 0.63 | 0.00 | 0.63 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 181 | 11.47 | 0.63 | 0.00 | 0.63 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 182 | 11.53 | 0.63 | 0.00 | 0.63 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 183 | 11.58 | 0.64 | 0.00 | 0.64 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 184 | 11.65 | 0.64 | 0.00 | 0.64 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 185 | 11.72 | 0.64 | 0.00 | 0.64 | 0.98 | 0.399 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 186 | 11.77 | 0.65 | 0.00 | 0.65 | 0.98 | 0.399 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 187 | 11.82 | 0.65 | 0.00 | 0.65 | 0.98 | 0.399 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 188 | 11.88 | 0.65 | 0.00 | 0.65 | 0.98 | 0.399 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 189 | 11.97 | 0.66 | 0.00 | 0.66 | 0.97 | 0.399 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 190 | 12.02 | 0.66 | 0.00 | 0.66 | 0.97 | 0.399 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 191 | 12.06 | 0.66 | 0.00 | 0.66 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 192 | 12.11 | 0.67 | 0.00 | 0.67 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 193 | 12.21 | 0.67 | 0.00 | 0.67 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 194 | 12.25 | 0.67 | 0.00 | 0.67 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 195 | 12.30 | 0.68 | 0.00 | 0.68 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 196 | 12.31 | 0.68 | 0.00 | 0.68 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 197 | 12.32 | 0.68 | 0.00 | 0.68 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 198 | 12.35 | 0.68 | 0.00 | 0.68 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 199 | 12.40 | 0.68 | 0.00 | 0.68 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 200 | 12.45 | 0.69 | 0.00 | 0.69 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 201 | 12.52 | 0.69 | 0.00 | 0.69 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 202 | 12.56 | 0.69 | 0.00 | 0.69 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 203 | 12.62 | 0.70 | 0.00 | 0.70 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 204 | 12.65 | 0.70 | 0.00 | 0.70 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 205 | 12.71 | 0.70 | 0.00 | 0.70 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 206 | 12.76 | 0.70 | 0.00 | 0.70 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 207 | 12.83 | 0.71 | 0.00 | 0.71 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 208 | 12.88 | 0.71 | 0.00 | 0.71 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 209 | 12.93 | 0.71 | 0.00 | 0.71 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 210 | 12.98 | 0.72 | 0.00 | 0.72 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 211 | 13.03 | 0.72 | 0.00 | 0.72 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 212 | 13.04 | 0.72 | 0.00 | 0.72 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 213 | 13.07 | 0.72 | 0.00 | 0.72 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 214 | 13.13 | 0.72 | 0.00 | 0.72 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 215 | 13.17 | 0.73 | 0.00 | 0.73 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 216 | 13.22 | 0.73 | 0.00 | 0.73 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 217 | 13.27 | 0.73 | 0.00 | 0.73 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 218 | 13.32 | 0.74 | 0.00 | 0.74 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 219 | 13.37 | 0.74 | 0.00 | 0.74 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 220 | 13.41 | 0.74 | 0.00 | 0.74 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 221 | 13.46 | 0.74 | 0.00 | 0.74 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 222 | 13.51 | 0.75 | 0.00 | 0.75 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 223 | 13.56 | 0.75 | 0.00 | 0.75 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 224 | 13.60 | 0.75 | 0.00 | 0.75 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 225 | 13.66 | 0.76 | 0.00 | 0.76 | 0.97 | 0.398 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 226 | 13.75 | 0.76 | 0.00 | 0.76 | 0.97 | 0.398 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 227 | 13.80 | 0.76 | 0.00 | 0.76 | 0.97 | 0.398 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 228 | 13.89 | 0.77 | 0.00 | 0.77 | 0.97 | 0.398 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 229 | 13.94 | 0.77 | 0.00 | 0.77 | 0.97 | 0.398 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 230 | 13.99 | 0.78 | 0.00 | 0.78 | 0.97 | 0.398 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 231 | 14.09 | 0.78 | 0.00 | 0.78 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 232 | 14.14 | 0.78 | 0.00 | 0.78 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 233 | 14.23 | 0.79 | 0.00 | 0.79 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 234 | 14.28 | 0.79 | 0.00 | 0.79 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 235 | 14.38 | 0.80 | 0.00 | 0.80 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 236 | 14.42 | 0.80 | 0.00 | 0.80 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 237 | 14.52 | 0.81 | 0.00 | 0.81 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 238 | 14.57 | 0.81 | 0.00 | 0.81 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 239 | 14.67 | 0.82 | 0.00 | 0.82 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 240 | 14.68 | 0.82 | 0.00 | 0.82 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 241 | 14.70 | 0.82 | 0.00 | 0.82 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 242 | 14.75 | 0.82 | 0.00 | 0.82 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 243 | 14.80 | 0.82 | 0.00 | 0.82 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 244 | 14.89 | 0.83 | 0.00 | 0.83 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 245 | 14.94 | 0.83 | 0.00 | 0.83 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 246 | 15.04 | 0.84 | 0.00 | 0.84 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 247 | 15.13 | 0.84 | 0.00 | 0.84 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 248 | 15.21 | 0.85 | 0.00 | 0.85 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 249 | 15.28 | 0.85 | 0.00 | 0.85 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 250 | 15.38 | 0.86 | 0.00 | 0.86 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 251 | 15.47 | 0.86 | 0.00 | 0.86 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 252 | 15.57 | 0.87 | 0.00 | 0.87 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 253 | 15.67 | 0.87 | 0.00 | 0.87 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 254 | 15.77 | 0.88 | 0.00 | 0.88 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 255 | 15.86 | 0.89 | 0.00 | 0.89 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 256 | 15.96 | 0.89 | 0.00 | 0.89 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 257 | 16.05 | 0.90 | 0.00 | 0.90 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 258 | 16.15 | 0.90 | 0.00 | 0.90 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 259 | 16.25 | 0.91 | 0.00 | 0.91 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 260 | 16.31 | 0.91 | 0.00 | 0.91 | 0.97 | 0.395 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 261 | 16.39 | 0.91 | 0.00 | 0.91 | 0.97 | 0.395 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 262 | 16.48 | 0.92 | 0.00 | 0.92 | 0.97 | 0.395 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 263 | 16.59 | 0.93 | 0.00 | 0.93 | 0.97 | 0.395 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | No |
| 264 | 16.68 | 0.93 | 0.00 | 0.93 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 265 | 16.76 | 0.94 | 0.00 | 0.94 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 266 | 16.86 | 0.94 | 0.00 | 0.94 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 267 | 16.92 | 0.94 | 0.00 | 0.94 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 268 | 17.02 | 0.95 | 0.00 | 0.95 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 269 | 17.11 | 0.96 | 0.00 | 0.96 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 270 | 17.22 | 0.96 | 0.00 | 0.96 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | Yes |
| 271 | 17.35 | 0.97 | 0.00 | 0.97 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | Yes |
| 272 | 17.45 | 0.97 | 0.00 | 0.97 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | Yes |
| 273 | 17.55 | 0.98 | 0.00 | 0.98 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | Yes |
| 274 | 17.61 | 0.98 | 0.00 | 0.98 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | Yes |
| 275 | 17.64 | 0.99 | 0.00 | 0.99 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | Yes |
| 276 | 17.70 | 0.99 | 0.00 | 0.99 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | Yes |
| 277 | 17.75 | 0.99 | 0.00 | 0.99 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | Yes |
| 278 | 17.80 | 1.00 | 0.00 | 1.00 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | Yes |
| 279 | 17.85 | 1.00 | 0.00 | 1.00 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | Yes |
| 280 | 17.94 | 1.00 | 0.00 | 1.00 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 281 | 17.99 | 1.01 | 0.00 | 1.01 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 282 | 18.09 | 1.01 | 0.00 | 1.01 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 283 | 18.15 | 1.02 | 0.00 | 1.02 | 0.96 | 0.394 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 284 | 18.23 | 1.02 | 0.00 | 1.02 | 0.96 | 0.394 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 285 | 18.33 | 1.03 | 0.00 | 1.03 | 0.96 | 0.394 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 286 | 18.43 | 1.03 | 0.00 | 1.03 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 287 | 18.52 | 1.04 | 0.00 | 1.04 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 288 | 18.59 | 1.04 | 0.00 | 1.04 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 289 | 18.72 | 1.05 | 0.00 | 1.05 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 290 | 18.81 | 1.05 | 0.00 | 1.05 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 291 | 18.87 | 1.06 | 0.00 | 1.06 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 292 | 18.95 | 1.06 | 0.00 | 1.06 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 293 | 19.05 | 1.07 | 0.00 | 1.07 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 294 | 19.14 | 1.07 | 0.00 | 1.07 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 295 | 19.22 | 1.08 | 0.00 | 1.08 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | Yes |
| 296 | 19.29 | 1.08 | 0.00 | 1.08 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | Yes |
| 297 | 19.38 | 1.09 | 0.00 | 1.09 | 0.96 | 0.392 | 1.36 | 0.289 | 0.99 | 1.00 | 2.000 | Yes |
| 298 | 19.44 | 1.09 | 0.00 | 1.09 | 0.96 | 0.392 | 1.36 | 0.289 | 0.99 | 1.00 | 2.000 | Yes |
| 299 | 19.53 | 1.09 | 0.00 | 1.09 | 0.96 | 0.392 | 1.36 | 0.288 | 0.99 | 1.00 | 2.000 | Yes |
| 300 | 19.62 | 1.10 | 0.00 | 1.10 | 0.96 | 0.392 | 1.36 | 0.288 | 0.99 | 1.00 | 2.000 | Yes |
| 301 | 19.69 | 1.10 | 0.00 | 1.10 | 0.96 | 0.392 | 1.36 | 0.288 | 0.99 | 1.00 | 2.000 | Yes |
| 302 | 19.79 | 1.11 | 0.00 | 1.11 | 0.96 | 0.392 | 1.36 | 0.288 | 0.99 | 1.00 | 2.000 | No |
| 303 | 19.86 | 1.11 | 0.00 | 1.11 | 0.96 | 0.392 | 1.36 | 0.288 | 0.99 | 1.00 | 2.000 | No |
| 304 | 19.97 | 1.12 | 0.00 | 1.12 | 0.96 | 0.392 | 1.36 | 0.288 | 0.99 | 1.00 | 2.000 | No |
| 305 | 20.07 | 1.13 | 0.00 | 1.13 | 0.96 | 0.392 | 1.36 | 0.288 | 0.99 | 1.00 | 2.000 | No |
| 306 | 20.16 | 1.13 | 0.00 | 1.13 | 0.96 | 0.392 | 1.36 | 0.288 | 0.99 | 1.00 | 2.000 | No |
| 307 | 20.26 | 1.14 | 0.00 | 1.14 | 0.96 | 0.392 | 1.36 | 0.288 | 0.99 | 1.00 | 2.000 | Yes |
| 308 | 20.34 | 1.14 | 0.00 | 1.14 | 0.96 | 0.391 | 1.36 | 0.288 | 0.98 | 1.00 | 2.000 | Yes |
| 309 | 20.43 | 1.15 | 0.00 | 1.15 | 0.96 | 0.391 | 1.36 | 0.288 | 0.98 | 1.00 | 2.000 | Yes |
| 310 | 20.50 | 1.15 | 0.00 | 1.15 | 0.96 | 0.391 | 1.36 | 0.288 | 0.98 | 1.00 | 2.000 | Yes |
| 311 | 20.60 | 1.16 | 0.00 | 1.16 | 0.96 | 0.391 | 1.36 | 0.288 | 0.98 | 1.00 | 2.000 | Yes |
| 312 | 20.62 | 1.16 | 0.00 | 1.16 | 0.96 | 0.391 | 1.36 | 0.288 | 0.98 | 1.00 | 2.000 | Yes |
| 313 | 20.63 | 1.16 | 0.00 | 1.16 | 0.96 | 0.391 | 1.36 | 0.288 | 0.98 | 1.00 | 2.000 | Yes |
| 314 | 20.68 | 1.16 | 0.00 | 1.16 | 0.96 | 0.391 | 1.36 | 0.288 | 0.98 | 1.00 | 2.000 | Yes |
| 315 | 20.73 | 1.17 | 0.00 | 1.17 | 0.95 | 0.391 | 1.36 | 0.288 | 0.98 | 1.00 | 2.000 | Yes |
| 316 | 20.82 | 1.17 | 0.00 | 1.17 | 0.95 | 0.391 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | Yes |
| 317 | 20.87 | 1.17 | 0.00 | 1.17 | 0.95 | 0.391 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | Yes |
| 318 | 20.91 | 1.18 | 0.00 | 1.18 | 0.95 | 0.391 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | Yes |
| 319 | 20.96 | 1.18 | 0.00 | 1.18 | 0.95 | 0.391 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | Yes |
| 320 | 21.05 | 1.19 | 0.00 | 1.19 | 0.95 | 0.391 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | No |
| 321 | 21.11 | 1.19 | 0.00 | 1.19 | 0.95 | 0.391 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | No |
| 322 | 21.17 | 1.19 | 0.00 | 1.19 | 0.95 | 0.391 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | No |
| 323 | 21.25 | 1.20 | 0.00 | 1.20 | 0.95 | 0.390 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | Yes |
| 324 | 21.30 | 1.20 | 0.00 | 1.20 | 0.95 | 0.390 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | Yes |
| 325 | 21.37 | 1.20 | 0.00 | 1.20 | 0.95 | 0.390 | 1.36 | 0.287 | 0.97 | 1.00 | 2.000 | Yes |
| 326 | 21.45 | 1.21 | 0.00 | 1.21 | 0.95 | 0.390 | 1.36 | 0.287 | 0.97 | 1.00 | 2.000 | Yes |
| 327 | 21.49 | 1.21 | 0.00 | 1.21 | 0.95 | 0.390 | 1.36 | 0.287 | 0.97 | 1.00 | 2.000 | Yes |
| 328 | 21.58 | 1.22 | 0.00 | 1.22 | 0.95 | 0.390 | 1.36 | 0.287 | 0.97 | 1.00 | 2.000 | Yes |
| 329 | 21.64 | 1.22 | 0.00 | 1.22 | 0.95 | 0.390 | 1.36 | 0.287 | 0.97 | 1.00 | 2.000 | Yes |
| 330 | 21.69 | 1.22 | 0.00 | 1.22 | 0.95 | 0.390 | 1.36 | 0.287 | 0.97 | 1.00 | 2.000 | Yes |
| 331 | 21.78 | 1.23 | 0.00 | 1.23 | 0.95 | 0.390 | 1.36 | 0.287 | 0.97 | 1.00 | 2.000 | No |
| 332 | 21.83 | 1.23 | 0.00 | 1.23 | 0.95 | 0.390 | 1.36 | 0.287 | 0.97 | 1.00 | 2.000 | No |
| 333 | 21.89 | 1.24 | 0.00 | 1.24 | 0.95 | 0.390 | 1.36 | 0.287 | 0.97 | 1.00 | 2.000 | No |
| 334 | 21.98 | 1.24 | 0.00 | 1.24 | 0.95 | 0.390 | 1.36 | 0.286 | 0.97 | 1.00 | 2.000 | No |
| 335 | 22.03 | 1.25 | 0.00 | 1.25 | 0.95 | 0.390 | 1.36 | 0.286 | 0.97 | 1.00 | 2.000 | No |
| 336 | 22.12 | 1.25 | 0.00 | 1.25 | 0.95 | 0.389 | 1.36 | 0.286 | 0.97 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 337 | 22.22 | 1.26 | 0.00 | 1.26 | 0.95 | 0.389 | 1.36 | 0.286 | 0.97 | 1.00 | 2.000 | No |
| 338 | 22.26 | 1.26 | 0.00 | 1.26 | 0.95 | 0.389 | 1.36 | 0.286 | 0.97 | 1.00 | 2.000 | No |
| 339 | 22.36 | 1.27 | 0.00 | 1.27 | 0.95 | 0.389 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 340 | 22.41 | 1.27 | 0.00 | 1.27 | 0.95 | 0.389 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 341 | 22.51 | 1.28 | 0.00 | 1.28 | 0.95 | 0.389 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 342 | 22.60 | 1.28 | 0.00 | 1.28 | 0.95 | 0.389 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 343 | 22.70 | 1.29 | 0.00 | 1.29 | 0.95 | 0.389 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 344 | 22.75 | 1.29 | 0.00 | 1.29 | 0.95 | 0.389 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 345 | 22.84 | 1.30 | 0.00 | 1.30 | 0.95 | 0.389 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 346 | 22.89 | 1.30 | 0.00 | 1.30 | 0.95 | 0.389 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 347 | 22.90 | 1.30 | 0.00 | 1.30 | 0.95 | 0.389 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 348 | 22.94 | 1.30 | 0.00 | 1.30 | 0.95 | 0.388 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 349 | 23.00 | 1.31 | 0.00 | 1.31 | 0.95 | 0.388 | 1.36 | 0.286 | 0.96 | 1.00 | 2.000 | No |
| 350 | 23.08 | 1.31 | 0.00 | 1.31 | 0.95 | 0.388 | 1.36 | 0.285 | 0.96 | 1.00 | 2.000 | No |
| 351 | 23.13 | 1.31 | 0.00 | 1.31 | 0.95 | 0.388 | 1.36 | 0.285 | 0.96 | 1.00 | 2.000 | No |
| 352 | 23.20 | 1.32 | 0.00 | 1.32 | 0.95 | 0.388 | 1.36 | 0.285 | 0.96 | 1.00 | 2.000 | No |
| 353 | 23.27 | 1.32 | 0.00 | 1.32 | 0.95 | 0.388 | 1.36 | 0.285 | 0.96 | 1.00 | 2.000 | No |
| 354 | 23.33 | 1.33 | 0.00 | 1.33 | 0.95 | 0.388 | 1.36 | 0.285 | 0.96 | 1.00 | 2.000 | No |
| 355 | 23.42 | 1.33 | 0.00 | 1.33 | 0.95 | 0.388 | 1.36 | 0.285 | 0.95 | 1.00 | 2.000 | No |
| 356 | 23.48 | 1.34 | 0.00 | 1.34 | 0.95 | 0.388 | 1.36 | 0.285 | 0.95 | 1.00 | 2.000 | No |
| 357 | 23.57 | 1.34 | 0.00 | 1.34 | 0.95 | 0.388 | 1.36 | 0.285 | 0.95 | 1.00 | 2.000 | No |
| 358 | 23.61 | 1.34 | 0.00 | 1.34 | 0.95 | 0.388 | 1.36 | 0.285 | 0.95 | 1.00 | 2.000 | No |
| 359 | 23.66 | 1.35 | 0.00 | 1.35 | 0.95 | 0.388 | 1.36 | 0.285 | 0.95 | 1.00 | 2.000 | No |
| 360 | 23.73 | 1.35 | 0.00 | 1.35 | 0.95 | 0.387 | 1.36 | 0.285 | 0.95 | 1.00 | 2.000 | No |
| 361 | 23.80 | 1.36 | 0.00 | 1.36 | 0.95 | 0.387 | 1.36 | 0.285 | 0.95 | 1.00 | 2.000 | No |
| 362 | 23.85 | 1.36 | 0.00 | 1.36 | 0.95 | 0.387 | 1.36 | 0.285 | 0.95 | 1.00 | 2.000 | No |
| 363 | 23.94 | 1.36 | 0.00 | 1.36 | 0.95 | 0.387 | 1.36 | 0.285 | 0.95 | 1.00 | 2.000 | No |
| 364 | 24.00 | 1.37 | 0.00 | 1.37 | 0.95 | 0.387 | 1.36 | 0.285 | 0.95 | 1.00 | 2.000 | No |
| 365 | 24.09 | 1.37 | 0.00 | 1.37 | 0.94 | 0.387 | 1.36 | 0.285 | 0.95 | 1.00 | 2.000 | No |
| 366 | 24.16 | 1.38 | 0.00 | 1.38 | 0.94 | 0.387 | 1.36 | 0.284 | 0.95 | 1.00 | 2.000 | No |
| 367 | 24.24 | 1.38 | 0.00 | 1.38 | 0.94 | 0.387 | 1.36 | 0.284 | 0.95 | 1.00 | 2.000 | No |
| 368 | 24.33 | 1.39 | 0.00 | 1.39 | 0.94 | 0.387 | 1.36 | 0.284 | 0.95 | 1.00 | 2.000 | No |
| 369 | 24.43 | 1.40 | 0.00 | 1.40 | 0.94 | 0.386 | 1.36 | 0.284 | 0.95 | 1.00 | 2.000 | No |
| 370 | 24.52 | 1.40 | 0.00 | 1.40 | 0.94 | 0.386 | 1.36 | 0.284 | 0.95 | 1.00 | 2.000 | No |
| 371 | 24.58 | 1.40 | 0.00 | 1.40 | 0.94 | 0.386 | 1.36 | 0.284 | 0.94 | 1.00 | 2.000 | No |
| 372 | 24.59 | 1.40 | 0.00 | 1.40 | 0.94 | 0.386 | 1.36 | 0.284 | 0.94 | 1.00 | 2.000 | No |
| 373 | 24.63 | 1.41 | 0.00 | 1.41 | 0.94 | 0.386 | 1.36 | 0.284 | 0.94 | 1.00 | 2.000 | No |
| 374 | 24.68 | 1.41 | 0.00 | 1.41 | 0.94 | 0.386 | 1.36 | 0.284 | 0.94 | 1.00 | 2.000 | No |
| 375 | 24.77 | 1.42 | 0.00 | 1.42 | 0.94 | 0.386 | 1.36 | 0.284 | 0.94 | 1.00 | 2.000 | No |
| 376 | 24.82 | 1.42 | 0.00 | 1.42 | 0.94 | 0.386 | 1.36 | 0.284 | 0.94 | 1.00 | 2.000 | No |
| 377 | 24.92 | 1.42 | 0.00 | 1.42 | 0.94 | 0.386 | 1.36 | 0.284 | 0.94 | 1.00 | 2.000 | No |
| 378 | 25.01 | 1.43 | 0.00 | 1.43 | 0.94 | 0.386 | 1.36 | 0.284 | 0.94 | 1.00 | 2.000 | No |
| 379 | 25.06 | 1.43 | 0.00 | 1.43 | 0.94 | 0.386 | 1.36 | 0.283 | 0.94 | 1.00 | 2.000 | No |
| 380 | 25.16 | 1.44 | 0.00 | 1.44 | 0.94 | 0.385 | 1.36 | 0.283 | 0.94 | 1.00 | 2.000 | No |
| 381 | 25.25 | 1.45 | 0.00 | 1.45 | 0.94 | 0.385 | 1.36 | 0.283 | 0.94 | 1.00 | 2.000 | No |
| 382 | 25.30 | 1.45 | 0.00 | 1.45 | 0.94 | 0.385 | 1.36 | 0.283 | 0.94 | 1.00 | 2.000 | No |
| 383 | 25.41 | 1.45 | 0.00 | 1.45 | 0.94 | 0.385 | 1.36 | 0.283 | 0.94 | 1.00 | 2.000 | Yes |
| 384 | 25.49 | 1.46 | 0.00 | 1.46 | 0.94 | 0.385 | 1.36 | 0.283 | 0.94 | 1.00 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 385 | 25.55 | 1.46 | 0.00 | 1.46 | 0.94 | 0.385 | 1.36 | 0.283 | 0.94 | 1.00 | 2.000 | Yes |
| 386 | 25.64 | 1.47 | 0.00 | 1.47 | 0.94 | 0.385 | 1.36 | 0.283 | 0.94 | 1.00 | 2.000 | Yes |
| 387 | 25.70 | 1.47 | 0.00 | 1.47 | 0.94 | 0.385 | 1.36 | 0.283 | 0.94 | 1.00 | 2.000 | Yes |
| 388 | 25.79 | 1.48 | 0.00 | 1.48 | 0.94 | 0.385 | 1.36 | 0.283 | 0.94 | 1.00 | 2.000 | Yes |
| 389 | 25.89 | 1.48 | 0.00 | 1.48 | 0.94 | 0.384 | 1.36 | 0.283 | 0.93 | 1.00 | 2.000 | Yes |
| 390 | 25.94 | 1.49 | 0.00 | 1.49 | 0.94 | 0.384 | 1.36 | 0.283 | 0.93 | 1.00 | 2.000 | Yes |
| 391 | 26.02 | 1.49 | 0.00 | 1.49 | 0.94 | 0.384 | 1.36 | 0.282 | 0.93 | 1.00 | 2.000 | Yes |
| 392 | 26.12 | 1.50 | 0.00 | 1.50 | 0.94 | 0.384 | 1.36 | 0.282 | 0.93 | 1.00 | 2.000 | Yes |
| 393 | 26.17 | 1.50 | 0.00 | 1.50 | 0.94 | 0.384 | 1.36 | 0.282 | 0.93 | 1.00 | 2.000 | Yes |
| 394 | 26.28 | 1.51 | 0.00 | 1.51 | 0.94 | 0.384 | 1.36 | 0.282 | 0.93 | 1.00 | 2.000 | Yes |
| 395 | 26.36 | 1.51 | 0.00 | 1.51 | 0.94 | 0.384 | 1.36 | 0.282 | 0.93 | 1.00 | 2.000 | Yes |
| 396 | 26.45 | 1.52 | 0.00 | 1.52 | 0.94 | 0.383 | 1.36 | 0.282 | 0.93 | 1.00 | 2.000 | Yes |
| 397 | 26.50 | 1.52 | 0.00 | 1.52 | 0.94 | 0.383 | 1.36 | 0.282 | 0.93 | 1.00 | 2.000 | Yes |
| 398 | 26.61 | 1.53 | 0.00 | 1.53 | 0.94 | 0.383 | 1.36 | 0.282 | 0.93 | 1.00 | 2.000 | Yes |
| 399 | 26.70 | 1.53 | 0.00 | 1.53 | 0.94 | 0.383 | 1.36 | 0.282 | 0.93 | 1.00 | 2.000 | No |
| 400 | 26.77 | 1.54 | 0.00 | 1.54 | 0.94 | 0.383 | 1.36 | 0.282 | 0.93 | 1.00 | 2.000 | No |
| 401 | 26.85 | 1.54 | 0.00 | 1.54 | 0.93 | 0.383 | 1.36 | 0.281 | 0.93 | 1.00 | 2.000 | No |
| 402 | 26.94 | 1.54 | 0.00 | 1.54 | 0.93 | 0.383 | 1.36 | 0.281 | 0.93 | 1.00 | 2.000 | No |
| 403 | 27.04 | 1.55 | 0.00 | 1.55 | 0.93 | 0.383 | 1.36 | 0.281 | 0.93 | 1.00 | 2.000 | No |
| 404 | 27.14 | 1.56 | 0.00 | 1.56 | 0.93 | 0.382 | 1.36 | 0.281 | 0.93 | 1.00 | 2.000 | No |
| 405 | 27.23 | 1.56 | 0.00 | 1.56 | 0.93 | 0.382 | 1.36 | 0.281 | 0.93 | 1.00 | 2.000 | No |
| 406 | 27.28 | 1.56 | 0.00 | 1.56 | 0.93 | 0.382 | 1.36 | 0.281 | 0.92 | 1.00 | 2.000 | No |
| 407 | 27.29 | 1.56 | 0.00 | 1.56 | 0.93 | 0.382 | 1.36 | 0.281 | 0.92 | 1.00 | 2.000 | No |
| 408 | 27.38 | 1.57 | 0.00 | 1.57 | 0.93 | 0.382 | 1.36 | 0.281 | 0.92 | 1.00 | 2.000 | No |
| 409 | 27.48 | 1.57 | 0.00 | 1.57 | 0.93 | 0.382 | 1.36 | 0.281 | 0.92 | 1.00 | 2.000 | No |
| 410 | 27.57 | 1.58 | 0.00 | 1.58 | 0.93 | 0.382 | 1.36 | 0.281 | 0.92 | 1.00 | 2.000 | No |
| 411 | 27.64 | 1.58 | 0.00 | 1.58 | 0.93 | 0.381 | 1.36 | 0.280 | 0.92 | 1.00 | 2.000 | No |
| 412 | 27.65 | 1.58 | 0.00 | 1.58 | 0.93 | 0.381 | 1.36 | 0.280 | 0.92 | 1.00 | 2.000 | No |
| 413 | 27.74 | 1.59 | 0.00 | 1.59 | 0.93 | 0.381 | 1.36 | 0.280 | 0.92 | 1.00 | 2.000 | No |
| 414 | 27.80 | 1.59 | 0.00 | 1.59 | 0.93 | 0.381 | 1.36 | 0.280 | 0.92 | 1.00 | 2.000 | No |
| 415 | 27.90 | 1.60 | 0.00 | 1.60 | 0.93 | 0.381 | 1.36 | 0.280 | 0.92 | 1.00 | 2.000 | No |
| 416 | 27.99 | 1.60 | 0.00 | 1.60 | 0.93 | 0.381 | 1.36 | 0.280 | 0.92 | 1.00 | 2.000 | No |
| 417 | 28.07 | 1.61 | 0.00 | 1.61 | 0.93 | 0.381 | 1.36 | 0.280 | 0.92 | 1.00 | 2.000 | No |
| 418 | 28.16 | 1.61 | 0.00 | 1.61 | 0.93 | 0.381 | 1.36 | 0.280 | 0.92 | 1.00 | 2.000 | No |
| 419 | 28.25 | 1.62 | 0.00 | 1.62 | 0.93 | 0.380 | 1.36 | 0.280 | 0.92 | 1.00 | 2.000 | No |
| 420 | 28.34 | 1.62 | 0.00 | 1.62 | 0.93 | 0.380 | 1.36 | 0.280 | 0.92 | 1.00 | 2.000 | No |
| 421 | 28.44 | 1.63 | 0.00 | 1.63 | 0.93 | 0.380 | 1.36 | 0.279 | 0.92 | 1.00 | 2.000 | No |
| 422 | 28.53 | 1.63 | 0.00 | 1.63 | 0.93 | 0.380 | 1.36 | 0.279 | 0.92 | 1.00 | 2.000 | No |
| 423 | 28.62 | 1.64 | 0.00 | 1.64 | 0.93 | 0.380 | 1.36 | 0.279 | 0.92 | 1.00 | 2.000 | No |
| 424 | 28.76 | 1.65 | 0.00 | 1.65 | 0.93 | 0.379 | 1.36 | 0.279 | 0.92 | 1.00 | 2.000 | No |
| 425 | 28.86 | 1.65 | 0.00 | 1.65 | 0.93 | 0.379 | 1.36 | 0.279 | 0.91 | 1.00 | 2.000 | No |
| 426 | 28.96 | 1.66 | 0.00 | 1.66 | 0.93 | 0.379 | 1.36 | 0.279 | 0.91 | 1.00 | 2.000 | No |
| 427 | 29.08 | 1.66 | 0.00 | 1.66 | 0.93 | 0.379 | 1.36 | 0.279 | 0.91 | 1.00 | 2.000 | No |
| 428 | 29.19 | 1.67 | 0.00 | 1.67 | 0.92 | 0.379 | 1.36 | 0.278 | 0.91 | 1.00 | 2.000 | No |
| 429 | 29.29 | 1.68 | 0.00 | 1.68 | 0.92 | 0.378 | 1.36 | 0.278 | 0.91 | 1.00 | 2.000 | No |
| 430 | 29.39 | 1.68 | 0.00 | 1.68 | 0.92 | 0.378 | 1.36 | 0.278 | 0.91 | 1.00 | 2.000 | No |
| 431 | 29.50 | 1.69 | 0.00 | 1.69 | 0.92 | 0.378 | 1.36 | 0.278 | 0.91 | 1.00 | 2.000 | No |
| 432 | 29.63 | 1.70 | 0.00 | 1.70 | 0.92 | 0.378 | 1.36 | 0.278 | 0.91 | 1.00 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 433 | 29.65 | 1.70 | 0.00 | 1.70 | 0.92 | 0.378 | 1.36 | 0.278 | 0.91 | 1.00 | 2.000 | Yes |
| 434 | 29.66 | 1.70 | 0.00 | 1.70 | 0.92 | 0.378 | 1.36 | 0.278 | 0.91 | 1.00 | 2.000 | Yes |
| 435 | 29.72 | 1.70 | 0.00 | 1.70 | 0.92 | 0.378 | 1.36 | 0.278 | 0.91 | 1.00 | 2.000 | Yes |
| 436 | 29.80 | 1.71 | 0.00 | 1.71 | 0.92 | 0.377 | 1.36 | 0.277 | 0.91 | 1.00 | 2.000 | Yes |
| 437 | 29.85 | 1.71 | 0.00 | 1.71 | 0.92 | 0.377 | 1.36 | 0.277 | 0.91 | 1.00 | 2.000 | Yes |
| 438 | 29.94 | 1.72 | 0.00 | 1.72 | 0.92 | 0.377 | 1.36 | 0.277 | 0.91 | 1.00 | 2.000 | Yes |
| 439 | 30.00 | 1.72 | 0.00 | 1.72 | 0.92 | 0.377 | 1.36 | 0.277 | 0.91 | 1.00 | 2.000 | Yes |
| 440 | 30.05 | 1.72 | 0.00 | 1.72 | 0.92 | 0.377 | 1.36 | 0.277 | 0.91 | 1.00 | 2.000 | Yes |
| 441 | 30.14 | 1.73 | 0.00 | 1.73 | 0.92 | 0.378 | 1.36 | 0.278 | 0.91 | 1.00 | 2.000 | Yes |
| 442 | 30.19 | 1.73 | 0.01 | 1.73 | 0.92 | 0.378 | 1.36 | 0.278 | 0.91 | 1.00 | 2.000 | Yes |
| 443 | 30.24 | 1.74 | 0.01 | 1.73 | 0.92 | 0.378 | 1.36 | 0.278 | 0.91 | 1.00 | 2.000 | Yes |
| 444 | 30.29 | 1.74 | 0.01 | 1.73 | 0.92 | 0.378 | 1.36 | 0.278 | 0.91 | 1.00 | 0.307 | No |
| 445 | 30.38 | 1.75 | 0.01 | 1.73 | 0.92 | 0.379 | 1.36 | 0.278 | 0.91 | 1.00 | 0.307 | No |
| 446 | 30.43 | 1.75 | 0.01 | 1.74 | 0.92 | 0.379 | 1.36 | 0.279 | 0.91 | 1.00 | 0.308 | No |
| 447 | 30.48 | 1.75 | 0.01 | 1.74 | 0.92 | 0.379 | 1.36 | 0.279 | 0.91 | 1.00 | 0.308 | No |
| 448 | 30.54 | 1.76 | 0.02 | 1.74 | 0.92 | 0.379 | 1.36 | 0.279 | 0.91 | 1.00 | 0.308 | No |
| 449 | 30.62 | 1.76 | 0.02 | 1.74 | 0.92 | 0.380 | 1.36 | 0.279 | 0.91 | 1.00 | 0.309 | No |
| 450 | 30.67 | 1.76 | 0.02 | 1.74 | 0.92 | 0.380 | 1.36 | 0.279 | 0.91 | 1.00 | 0.309 | No |
| 451 | 30.72 | 1.77 | 0.02 | 1.74 | 0.92 | 0.380 | 1.36 | 0.280 | 0.90 | 1.00 | 0.309 | No |
| 452 | 30.76 | 1.77 | 0.02 | 1.75 | 0.92 | 0.380 | 1.36 | 0.280 | 0.90 | 1.00 | 0.309 | No |
| 453 | 30.86 | 1.78 | 0.03 | 1.75 | 0.92 | 0.381 | 1.36 | 0.280 | 0.90 | 1.00 | 0.310 | No |
| 454 | 30.91 | 1.78 | 0.03 | 1.75 | 0.92 | 0.381 | 1.36 | 0.280 | 0.90 | 1.00 | 0.310 | No |
| 455 | 30.95 | 1.78 | 0.03 | 1.75 | 0.92 | 0.381 | 1.36 | 0.280 | 0.90 | 1.00 | 0.310 | No |
| 456 | 31.03 | 1.79 | 0.03 | 1.75 | 0.92 | 0.382 | 1.36 | 0.281 | 0.90 | 1.00 | 0.310 | No |
| 457 | 31.10 | 1.79 | 0.03 | 1.76 | 0.91 | 0.382 | 1.36 | 0.281 | 0.90 | 1.00 | 0.311 | No |
| 458 | 31.15 | 1.79 | 0.04 | 1.76 | 0.91 | 0.382 | 1.36 | 0.281 | 0.90 | 1.00 | 0.311 | No |
| 459 | 31.20 | 1.80 | 0.04 | 1.76 | 0.91 | 0.382 | 1.36 | 0.281 | 0.90 | 1.00 | 0.311 | No |
| 460 | 31.26 | 1.80 | 0.04 | 1.76 | 0.91 | 0.383 | 1.36 | 0.281 | 0.90 | 1.00 | 0.311 | No |
| 461 | 31.34 | 1.81 | 0.04 | 1.76 | 0.91 | 0.383 | 1.36 | 0.282 | 0.90 | 1.00 | 0.312 | No |
| 462 | 31.37 | 1.81 | 0.04 | 1.77 | 0.91 | 0.383 | 1.36 | 0.282 | 0.90 | 1.00 | 0.312 | No |
| 463 | 31.38 | 1.81 | 0.04 | 1.77 | 0.91 | 0.383 | 1.36 | 0.282 | 0.90 | 1.00 | 0.312 | No |
| 464 | 31.43 | 1.81 | 0.04 | 1.77 | 0.91 | 0.383 | 1.36 | 0.282 | 0.90 | 1.00 | 0.312 | No |
| 465 | 31.47 | 1.81 | 0.05 | 1.77 | 0.91 | 0.383 | 1.36 | 0.282 | 0.90 | 1.00 | 0.312 | No |
| 466 | 31.55 | 1.82 | 0.05 | 1.77 | 0.91 | 0.384 | 1.36 | 0.282 | 0.90 | 1.00 | 0.313 | No |
| 467 | 31.59 | 1.82 | 0.05 | 1.77 | 0.91 | 0.384 | 1.36 | 0.282 | 0.90 | 1.00 | 0.313 | No |
| 468 | 31.66 | 1.83 | 0.05 | 1.77 | 0.91 | 0.384 | 1.36 | 0.282 | 0.90 | 1.00 | 0.313 | No |
| 469 | 31.73 | 1.83 | 0.05 | 1.78 | 0.91 | 0.385 | 1.36 | 0.283 | 0.90 | 1.00 | 0.314 | No |
| 470 | 31.78 | 1.83 | 0.06 | 1.78 | 0.91 | 0.385 | 1.36 | 0.283 | 0.90 | 1.00 | 0.314 | No |
| 471 | 31.84 | 1.84 | 0.06 | 1.78 | 0.91 | 0.385 | 1.36 | 0.283 | 0.90 | 1.00 | 0.314 | No |
| 472 | 31.93 | 1.84 | 0.06 | 1.78 | 0.91 | 0.385 | 1.36 | 0.283 | 0.90 | 1.00 | 0.314 | No |
| 473 | 31.98 | 1.85 | 0.06 | 1.78 | 0.91 | 0.385 | 1.36 | 0.283 | 0.90 | 1.00 | 0.315 | No |
| 474 | 32.02 | 1.85 | 0.06 | 1.79 | 0.91 | 0.386 | 1.36 | 0.284 | 0.90 | 1.00 | 0.315 | No |
| 475 | 32.09 | 1.85 | 0.07 | 1.79 | 0.91 | 0.386 | 1.36 | 0.284 | 0.90 | 1.00 | 0.315 | No |
| 476 | 32.16 | 1.86 | 0.07 | 1.79 | 0.91 | 0.386 | 1.36 | 0.284 | 0.90 | 1.00 | 0.315 | No |
| 477 | 32.22 | 1.86 | 0.07 | 1.79 | 0.91 | 0.386 | 1.36 | 0.284 | 0.90 | 1.00 | 0.316 | No |
| 478 | 32.27 | 1.86 | 0.07 | 1.79 | 0.91 | 0.387 | 1.36 | 0.284 | 0.90 | 1.00 | 0.316 | No |
| 479 | 32.34 | 1.87 | 0.07 | 1.80 | 0.91 | 0.387 | 1.36 | 0.284 | 0.90 | 1.00 | 0.316 | No |
| 480 | 32.42 | 1.87 | 0.08 | 1.80 | 0.91 | 0.387 | 1.36 | 0.285 | 0.90 | 1.00 | 0.316 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 481 | 32.46 | 1.88 | 0.08 | 1.80 | 0.91 | 0.387 | 1.36 | 0.285 | 0.90 | 1.00 | 0.317 | No |
| 482 | 32.54 | 1.88 | 0.08 | 1.80 | 0.91 | 0.388 | 1.36 | 0.285 | 0.90 | 1.00 | 0.317 | No |
| 483 | 32.60 | 1.89 | 0.08 | 1.80 | 0.91 | 0.388 | 1.36 | 0.285 | 0.90 | 1.00 | 0.317 | No |
| 484 | 32.67 | 1.89 | 0.08 | 1.81 | 0.91 | 0.388 | 1.36 | 0.285 | 0.90 | 1.00 | 0.317 | No |
| 485 | 32.75 | 1.89 | 0.09 | 1.81 | 0.91 | 0.388 | 1.36 | 0.285 | 0.90 | 1.00 | 0.318 | No |
| 486 | 32.81 | 1.90 | 0.09 | 1.81 | 0.90 | 0.389 | 1.36 | 0.286 | 0.90 | 1.00 | 0.318 | No |
| 487 | 32.89 | 1.90 | 0.09 | 1.81 | 0.90 | 0.389 | 1.36 | 0.286 | 0.90 | 1.00 | 0.318 | No |
| 488 | 32.94 | 1.91 | 0.09 | 1.82 | 0.90 | 0.389 | 1.36 | 0.286 | 0.90 | 1.00 | 0.319 | No |
| 489 | 32.95 | 1.91 | 0.09 | 1.82 | 0.90 | 0.389 | 1.36 | 0.286 | 0.90 | 1.00 | 0.319 | No |
| 490 | 33.00 | 1.91 | 0.09 | 1.82 | 0.90 | 0.389 | 1.36 | 0.286 | 0.90 | 1.00 | 0.319 | No |
| 491 | 33.06 | 1.91 | 0.10 | 1.82 | 0.90 | 0.389 | 1.36 | 0.286 | 0.90 | 1.00 | 0.319 | No |
| 492 | 33.11 | 1.92 | 0.10 | 1.82 | 0.90 | 0.390 | 1.36 | 0.286 | 0.90 | 1.00 | 0.319 | No |
| 493 | 33.20 | 1.92 | 0.10 | 1.82 | 0.90 | 0.390 | 1.36 | 0.287 | 0.90 | 1.00 | 0.320 | No |
| 494 | 33.25 | 1.93 | 0.10 | 1.83 | 0.90 | 0.390 | 1.36 | 0.287 | 0.90 | 1.00 | 0.320 | No |
| 495 | 33.34 | 1.93 | 0.10 | 1.83 | 0.90 | 0.390 | 1.36 | 0.287 | 0.90 | 1.00 | 0.320 | No |
| 496 | 33.38 | 1.94 | 0.11 | 1.83 | 0.90 | 0.390 | 1.36 | 0.287 | 0.90 | 1.00 | 0.320 | No |
| 497 | 33.48 | 1.94 | 0.11 | 1.83 | 0.90 | 0.391 | 1.36 | 0.287 | 0.90 | 1.00 | 0.321 | No |
| 498 | 33.58 | 1.95 | 0.11 | 1.84 | 0.90 | 0.391 | 1.36 | 0.287 | 0.90 | 1.00 | 0.321 | No |
| 499 | 33.63 | 1.95 | 0.11 | 1.84 | 0.90 | 0.391 | 1.36 | 0.288 | 0.90 | 1.00 | 0.321 | No |
| 500 | 33.73 | 1.96 | 0.12 | 1.84 | 0.90 | 0.391 | 1.36 | 0.288 | 0.90 | 1.00 | 0.322 | No |
| 501 | 33.82 | 1.96 | 0.12 | 1.84 | 0.90 | 0.392 | 1.36 | 0.288 | 0.89 | 1.00 | 0.322 | No |
| 502 | 33.87 | 1.97 | 0.12 | 1.85 | 0.90 | 0.392 | 1.36 | 0.288 | 0.89 | 1.00 | 0.322 | No |
| 503 | 33.96 | 1.97 | 0.12 | 1.85 | 0.90 | 0.392 | 1.36 | 0.288 | 0.89 | 1.00 | 0.322 | No |
| 504 | 34.02 | 1.98 | 0.13 | 1.85 | 0.90 | 0.392 | 1.36 | 0.288 | 0.89 | 1.00 | 0.323 | No |
| 505 | 34.11 | 1.98 | 0.13 | 1.85 | 0.90 | 0.393 | 1.36 | 0.289 | 0.89 | 1.00 | 0.323 | No |
| 506 | 34.18 | 1.99 | 0.13 | 1.86 | 0.90 | 0.393 | 1.36 | 0.289 | 0.89 | 1.00 | 0.323 | No |
| 507 | 34.26 | 1.99 | 0.13 | 1.86 | 0.90 | 0.393 | 1.36 | 0.289 | 0.89 | 1.00 | 0.323 | No |
| 508 | 34.35 | 2.00 | 0.14 | 1.86 | 0.90 | 0.393 | 1.36 | 0.289 | 0.89 | 1.00 | 0.324 | No |
| 509 | 34.44 | 2.00 | 0.14 | 1.87 | 0.89 | 0.393 | 1.36 | 0.289 | 0.89 | 1.00 | 0.324 | No |
| 510 | 34.49 | 2.01 | 0.14 | 1.87 | 0.89 | 0.394 | 1.36 | 0.289 | 0.89 | 1.00 | 0.324 | No |
| 511 | 34.59 | 2.01 | 0.14 | 1.87 | 0.89 | 0.394 | 1.36 | 0.290 | 0.89 | 1.00 | 0.325 | No |
| 512 | 34.69 | 2.02 | 0.15 | 1.87 | 0.89 | 0.394 | 1.36 | 0.290 | 0.89 | 1.00 | 0.325 | No |
| 513 | 34.76 | 2.03 | 0.15 | 1.88 | 0.89 | 0.394 | 1.36 | 0.290 | 0.89 | 1.00 | 0.325 | No |
| 514 | 34.83 | 2.03 | 0.15 | 1.88 | 0.89 | 0.394 | 1.36 | 0.290 | 0.89 | 1.00 | 0.325 | No |
| 515 | 34.93 | 2.04 | 0.15 | 1.88 | 0.89 | 0.395 | 1.36 | 0.290 | 0.89 | 1.00 | 0.326 | No |
| 516 | 35.02 | 2.04 | 0.16 | 1.89 | 0.89 | 0.395 | 1.36 | 0.290 | 0.89 | 1.00 | 0.326 | No |
| 517 | 35.12 | 2.05 | 0.16 | 1.89 | 0.89 | 0.395 | 1.36 | 0.291 | 0.89 | 1.00 | 0.326 | No |
| 518 | 35.22 | 2.06 | 0.16 | 1.89 | 0.89 | 0.395 | 1.36 | 0.291 | 0.89 | 1.00 | 0.327 | No |
| 519 | 35.30 | 2.06 | 0.17 | 1.90 | 0.89 | 0.396 | 1.36 | 0.291 | 0.89 | 1.00 | 0.327 | No |
| 520 | 35.38 | 2.07 | 0.17 | 1.90 | 0.89 | 0.396 | 1.36 | 0.291 | 0.89 | 1.00 | 0.327 | No |
| 521 | 35.43 | 2.07 | 0.17 | 1.90 | 0.89 | 0.396 | 1.36 | 0.291 | 0.89 | 1.00 | 0.327 | No |
| 522 | 35.46 | 2.07 | 0.17 | 1.90 | 0.89 | 0.396 | 1.36 | 0.291 | 0.89 | 1.00 | 0.327 | No |
| 523 | 35.51 | 2.08 | 0.17 | 1.90 | 0.89 | 0.396 | 1.36 | 0.291 | 0.89 | 1.00 | 2.000 | Yes |
| 524 | 35.56 | 2.08 | 0.17 | 1.90 | 0.89 | 0.396 | 1.36 | 0.291 | 0.89 | 1.00 | 2.000 | Yes |
| 525 | 35.66 | 2.08 | 0.18 | 1.91 | 0.89 | 0.396 | 1.36 | 0.291 | 0.89 | 1.00 | 2.000 | Yes |
| 526 | 35.70 | 2.09 | 0.18 | 1.91 | 0.89 | 0.396 | 1.36 | 0.291 | 0.89 | 1.00 | 2.000 | Yes |
| 527 | 35.80 | 2.09 | 0.18 | 1.91 | 0.88 | 0.397 | 1.36 | 0.292 | 0.89 | 1.00 | 2.000 | Yes |
| 528 | 35.89 | 2.10 | 0.18 | 1.92 | 0.88 | 0.397 | 1.36 | 0.292 | 0.89 | 1.00 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 529 | 35.96 | 2.10 | 0.19 | 1.92 | 0.88 | 0.397 | 1.36 | 0.292 | 0.89 | 1.00 | 2.000 | Yes |
| 530 | 36.04 | 2.11 | 0.19 | 1.92 | 0.88 | 0.397 | 1.36 | 0.292 | 0.89 | 1.00 | 2.000 | Yes |
| 531 | 36.14 | 2.12 | 0.19 | 1.92 | 0.88 | 0.397 | 1.36 | 0.292 | 0.89 | 1.00 | 2.000 | Yes |
| 532 | 36.19 | 2.12 | 0.19 | 1.93 | 0.88 | 0.397 | 1.36 | 0.292 | 0.89 | 1.00 | 2.000 | Yes |
| 533 | 36.28 | 2.12 | 0.20 | 1.93 | 0.88 | 0.398 | 1.36 | 0.292 | 0.89 | 1.00 | 2.000 | Yes |
| 534 | 36.33 | 2.13 | 0.20 | 1.93 | 0.88 | 0.398 | 1.36 | 0.292 | 0.89 | 1.00 | 0.330 | No |
| 535 | 36.42 | 2.13 | 0.20 | 1.93 | 0.88 | 0.398 | 1.36 | 0.293 | 0.89 | 1.00 | 0.330 | No |
| 536 | 36.48 | 2.14 | 0.20 | 1.93 | 0.88 | 0.398 | 1.36 | 0.293 | 0.89 | 1.00 | 0.330 | No |
| 537 | 36.52 | 2.14 | 0.20 | 1.94 | 0.88 | 0.398 | 1.36 | 0.293 | 0.89 | 1.00 | 0.330 | No |
| 538 | 36.62 | 2.14 | 0.21 | 1.94 | 0.88 | 0.398 | 1.36 | 0.293 | 0.89 | 1.00 | 0.330 | No |
| 539 | 36.68 | 2.15 | 0.21 | 1.94 | 0.88 | 0.398 | 1.36 | 0.293 | 0.89 | 1.00 | 0.331 | No |
| 540 | 36.77 | 2.15 | 0.21 | 1.94 | 0.88 | 0.398 | 1.36 | 0.293 | 0.89 | 1.00 | 0.331 | No |
| 541 | 36.86 | 2.16 | 0.21 | 1.95 | 0.88 | 0.399 | 1.36 | 0.293 | 0.89 | 1.00 | 2.000 | Yes |
| 542 | 36.90 | 2.16 | 0.22 | 1.95 | 0.88 | 0.399 | 1.36 | 0.293 | 0.89 | 1.00 | 2.000 | Yes |
| 543 | 37.00 | 2.17 | 0.22 | 1.95 | 0.88 | 0.399 | 1.36 | 0.293 | 0.88 | 1.00 | 2.000 | Yes |
| 544 | 37.10 | 2.17 | 0.22 | 1.95 | 0.88 | 0.399 | 1.36 | 0.293 | 0.88 | 1.00 | 2.000 | Yes |
| 545 | 37.20 | 2.18 | 0.22 | 1.96 | 0.87 | 0.399 | 1.36 | 0.293 | 0.88 | 1.00 | 2.000 | Yes |
| 546 | 37.29 | 2.19 | 0.23 | 1.96 | 0.87 | 0.399 | 1.36 | 0.294 | 0.88 | 1.00 | 2.000 | Yes |
| 547 | 37.39 | 2.19 | 0.23 | 1.96 | 0.87 | 0.399 | 1.36 | 0.294 | 0.88 | 1.00 | 2.000 | Yes |
| 548 | 37.49 | 2.20 | 0.23 | 1.97 | 0.87 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.333 | No |
| 549 | 37.53 | 2.20 | 0.24 | 1.97 | 0.87 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.333 | No |
| 550 | 37.58 | 2.21 | 0.24 | 1.97 | 0.87 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.333 | No |
| 551 | 37.62 | 2.21 | 0.24 | 1.97 | 0.87 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.333 | No |
| 552 | 37.69 | 2.21 | 0.24 | 1.97 | 0.87 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.333 | No |
| 553 | 37.77 | 2.22 | 0.24 | 1.98 | 0.87 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.333 | No |
| 554 | 37.82 | 2.22 | 0.24 | 1.98 | 0.87 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.333 | No |
| 555 | 37.87 | 2.22 | 0.25 | 1.98 | 0.87 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.333 | No |
| 556 | 37.91 | 2.23 | 0.25 | 1.98 | 0.87 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.333 | No |
| 557 | 37.97 | 2.23 | 0.25 | 1.98 | 0.87 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.334 | No |
| 558 | 38.06 | 2.24 | 0.25 | 1.99 | 0.87 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.334 | No |
| 559 | 38.10 | 2.24 | 0.25 | 1.99 | 0.87 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.334 | No |
| 560 | 38.17 | 2.24 | 0.25 | 1.99 | 0.87 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.334 | No |
| 561 | 38.25 | 2.25 | 0.26 | 1.99 | 0.87 | 0.400 | 1.36 | 0.294 | 0.88 | 1.00 | 0.334 | No |
| 562 | 38.35 | 2.26 | 0.26 | 2.00 | 0.87 | 0.401 | 1.36 | 0.294 | 0.88 | 1.00 | 0.334 | No |
| 563 | 38.40 | 2.26 | 0.26 | 2.00 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.334 | No |
| 564 | 38.46 | 2.26 | 0.26 | 2.00 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.335 | No |
| 565 | 38.54 | 2.27 | 0.27 | 2.00 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.335 | No |
| 566 | 38.60 | 2.27 | 0.27 | 2.00 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.335 | No |
| 567 | 38.69 | 2.28 | 0.27 | 2.01 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.335 | No |
| 568 | 38.74 | 2.28 | 0.27 | 2.01 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.335 | No |
| 569 | 38.83 | 2.29 | 0.28 | 2.01 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.335 | No |
| 570 | 38.88 | 2.29 | 0.28 | 2.01 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.335 | No |
| 571 | 38.97 | 2.30 | 0.28 | 2.02 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.335 | No |
| 572 | 39.02 | 2.30 | 0.28 | 2.02 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.336 | No |
| 573 | 39.11 | 2.31 | 0.28 | 2.02 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.336 | No |
| 574 | 39.16 | 2.31 | 0.29 | 2.02 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.336 | No |
| 575 | 39.23 | 2.31 | 0.29 | 2.03 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.336 | No |
| 576 | 39.24 | 2.31 | 0.29 | 2.03 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.336 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 577 | 39.28 | 2.32 | 0.29 | 2.03 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.336 | No |
| 578 | 39.32 | 2.32 | 0.29 | 2.03 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 0.336 | No |
| 579 | 39.39 | 2.32 | 0.29 | 2.03 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 2.000 | Yes |
| 580 | 39.47 | 2.33 | 0.30 | 2.03 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 2.000 | Yes |
| 581 | 39.54 | 2.33 | 0.30 | 2.04 | 0.86 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 2.000 | Yes |
| 582 | 39.62 | 2.34 | 0.30 | 2.04 | 0.85 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 2.000 | Yes |
| 583 | 39.71 | 2.34 | 0.30 | 2.04 | 0.85 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 2.000 | Yes |
| 584 | 39.76 | 2.35 | 0.30 | 2.04 | 0.85 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 2.000 | Yes |
| 585 | 39.85 | 2.35 | 0.31 | 2.05 | 0.85 | 0.401 | 1.36 | 0.295 | 0.88 | 1.00 | 2.000 | Yes |
| 586 | 39.90 | 2.36 | 0.31 | 2.05 | 0.85 | 0.402 | 1.36 | 0.295 | 0.88 | 1.00 | 2.000 | Yes |
| 587 | 40.00 | 2.36 | 0.31 | 2.05 | 0.85 | 0.402 | 1.36 | 0.295 | 0.88 | 1.00 | 2.000 | Yes |
| 588 | 40.06 | 2.37 | 0.31 | 2.05 | 0.85 | 0.402 | 1.36 | 0.295 | 0.88 | 1.00 | 2.000 | Yes |
| 589 | 40.15 | 2.37 | 0.32 | 2.05 | 0.85 | 0.402 | 1.36 | 0.295 | 0.88 | 1.00 | 2.000 | Yes |
| 590 | 40.21 | 2.38 | 0.32 | 2.06 | 0.85 | 0.402 | 1.36 | 0.295 | 0.88 | 1.00 | 2.000 | Yes |
| 591 | 40.29 | 2.38 | 0.32 | 2.06 | 0.85 | 0.402 | 1.36 | 0.295 | 0.88 | 1.00 | 2.000 | Yes |
| 592 | 40.35 | 2.38 | 0.32 | 2.06 | 0.85 | 0.402 | 1.36 | 0.295 | 0.88 | 1.00 | 2.000 | Yes |
| 593 | 40.43 | 2.39 | 0.33 | 2.06 | 0.85 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 2.000 | Yes |
| 594 | 40.52 | 2.39 | 0.33 | 2.07 | 0.85 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 2.000 | Yes |
| 595 | 40.58 | 2.40 | 0.33 | 2.07 | 0.85 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 2.000 | Yes |
| 596 | 40.67 | 2.40 | 0.33 | 2.07 | 0.85 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 2.000 | Yes |
| 597 | 40.77 | 2.41 | 0.34 | 2.07 | 0.84 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 2.000 | Yes |
| 598 | 40.84 | 2.41 | 0.34 | 2.08 | 0.84 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 2.000 | Yes |
| 599 | 40.89 | 2.42 | 0.34 | 2.08 | 0.84 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 2.000 | Yes |
| 600 | 40.94 | 2.42 | 0.34 | 2.08 | 0.84 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 2.000 | Yes |
| 601 | 41.03 | 2.43 | 0.34 | 2.08 | 0.84 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 2.000 | Yes |
| 602 | 41.08 | 2.43 | 0.35 | 2.08 | 0.84 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 2.000 | Yes |
| 603 | 41.14 | 2.43 | 0.35 | 2.09 | 0.84 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 2.000 | Yes |
| 604 | 41.22 | 2.44 | 0.35 | 2.09 | 0.84 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 2.000 | Yes |
| 605 | 41.28 | 2.44 | 0.35 | 2.09 | 0.84 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 0.338 | No |
| 606 | 41.33 | 2.44 | 0.35 | 2.09 | 0.84 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 0.338 | No |
| 607 | 41.42 | 2.45 | 0.36 | 2.09 | 0.84 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 608 | 41.47 | 2.45 | 0.36 | 2.10 | 0.84 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 609 | 41.52 | 2.46 | 0.36 | 2.10 | 0.84 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 610 | 41.62 | 2.46 | 0.36 | 2.10 | 0.84 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 611 | 41.67 | 2.47 | 0.36 | 2.10 | 0.84 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 612 | 41.76 | 2.47 | 0.37 | 2.10 | 0.84 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 613 | 41.82 | 2.48 | 0.37 | 2.11 | 0.83 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 614 | 41.90 | 2.48 | 0.37 | 2.11 | 0.83 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 615 | 41.99 | 2.49 | 0.37 | 2.11 | 0.83 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 616 | 42.05 | 2.49 | 0.38 | 2.11 | 0.83 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 617 | 42.15 | 2.50 | 0.38 | 2.12 | 0.83 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 618 | 42.23 | 2.50 | 0.38 | 2.12 | 0.83 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 619 | 42.30 | 2.51 | 0.38 | 2.12 | 0.83 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 620 | 42.38 | 2.51 | 0.39 | 2.13 | 0.83 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 621 | 42.48 | 2.52 | 0.39 | 2.13 | 0.83 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 622 | 42.57 | 2.52 | 0.39 | 2.13 | 0.83 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 623 | 42.64 | 2.53 | 0.39 | 2.13 | 0.83 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 624 | 42.72 | 2.53 | 0.40 | 2.14 | 0.83 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 625 | 42.82 | 2.54 | 0.40 | 2.14 | 0.83 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 626 | 42.90 | 2.55 | 0.40 | 2.14 | 0.82 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 627 | 42.97 | 2.55 | 0.40 | 2.15 | 0.82 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 628 | 43.06 | 2.56 | 0.41 | 2.15 | 0.82 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.340 | No |
| 629 | 43.15 | 2.56 | 0.41 | 2.15 | 0.82 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.340 | No |
| 630 | 43.20 | 2.56 | 0.41 | 2.15 | 0.82 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.340 | No |
| 631 | 43.30 | 2.57 | 0.41 | 2.16 | 0.82 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.340 | No |
| 632 | 43.40 | 2.58 | 0.42 | 2.16 | 0.82 | 0.401 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 633 | 43.48 | 2.58 | 0.42 | 2.16 | 0.82 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 634 | 43.51 | 2.58 | 0.42 | 2.16 | 0.82 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 635 | 43.52 | 2.58 | 0.42 | 2.16 | 0.82 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 636 | 43.56 | 2.59 | 0.42 | 2.16 | 0.82 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 637 | 43.61 | 2.59 | 0.42 | 2.17 | 0.82 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 638 | 43.67 | 2.59 | 0.43 | 2.17 | 0.82 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 639 | 43.72 | 2.60 | 0.43 | 2.17 | 0.82 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 640 | 43.80 | 2.60 | 0.43 | 2.17 | 0.82 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 641 | 43.85 | 2.61 | 0.43 | 2.17 | 0.82 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 642 | 43.90 | 2.61 | 0.43 | 2.18 | 0.81 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 643 | 43.94 | 2.61 | 0.43 | 2.18 | 0.81 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 644 | 43.99 | 2.62 | 0.44 | 2.18 | 0.81 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 645 | 44.08 | 2.62 | 0.44 | 2.18 | 0.81 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 646 | 44.14 | 2.62 | 0.44 | 2.18 | 0.81 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.340 | No |
| 647 | 44.22 | 2.63 | 0.44 | 2.19 | 0.81 | 0.400 | 1.36 | 0.294 | 0.86 | 1.00 | 0.340 | No |
| 648 | 44.28 | 2.63 | 0.45 | 2.19 | 0.81 | 0.400 | 1.36 | 0.294 | 0.86 | 1.00 | 0.340 | No |
| 649 | 44.33 | 2.64 | 0.45 | 2.19 | 0.81 | 0.400 | 1.36 | 0.294 | 0.86 | 1.00 | 0.340 | No |
| 650 | 44.40 | 2.64 | 0.45 | 2.19 | 0.81 | 0.399 | 1.36 | 0.294 | 0.86 | 1.00 | 0.340 | No |
| 651 | 44.48 | 2.65 | 0.45 | 2.20 | 0.81 | 0.399 | 1.36 | 0.294 | 0.86 | 1.00 | 0.340 | No |
| 652 | 44.52 | 2.65 | 0.45 | 2.20 | 0.81 | 0.399 | 1.36 | 0.294 | 0.86 | 1.00 | 0.340 | No |
| 653 | 44.61 | 2.66 | 0.46 | 2.20 | 0.81 | 0.399 | 1.36 | 0.294 | 0.86 | 1.00 | 0.340 | No |
| 654 | 44.72 | 2.66 | 0.46 | 2.20 | 0.81 | 0.399 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 655 | 44.77 | 2.67 | 0.46 | 2.21 | 0.81 | 0.399 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 656 | 44.91 | 2.67 | 0.47 | 2.21 | 0.80 | 0.399 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 657 | 44.95 | 2.68 | 0.47 | 2.21 | 0.80 | 0.399 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 658 | 45.02 | 2.68 | 0.47 | 2.21 | 0.80 | 0.399 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 659 | 45.04 | 2.68 | 0.47 | 2.21 | 0.80 | 0.399 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 660 | 45.06 | 2.69 | 0.47 | 2.22 | 0.80 | 0.399 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 661 | 45.11 | 2.69 | 0.47 | 2.22 | 0.80 | 0.399 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 662 | 45.15 | 2.69 | 0.47 | 2.22 | 0.80 | 0.398 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 663 | 45.21 | 2.69 | 0.47 | 2.22 | 0.80 | 0.398 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 664 | 45.25 | 2.70 | 0.48 | 2.22 | 0.80 | 0.398 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 665 | 45.30 | 2.70 | 0.48 | 2.22 | 0.80 | 0.398 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 666 | 45.35 | 2.70 | 0.48 | 2.23 | 0.80 | 0.398 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 667 | 45.41 | 2.71 | 0.48 | 2.23 | 0.80 | 0.398 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 668 | 45.49 | 2.71 | 0.48 | 2.23 | 0.80 | 0.398 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 669 | 45.55 | 2.72 | 0.49 | 2.23 | 0.80 | 0.398 | 1.36 | 0.293 | 0.86 | 1.00 | 0.340 | No |
| 670 | 45.63 | 2.72 | 0.49 | 2.24 | 0.80 | 0.398 | 1.36 | 0.292 | 0.86 | 1.00 | 0.340 | No |
| 671 | 45.69 | 2.73 | 0.49 | 2.24 | 0.80 | 0.398 | 1.36 | 0.292 | 0.86 | 1.00 | 0.340 | No |
| 672 | 45.78 | 2.73 | 0.49 | 2.24 | 0.80 | 0.397 | 1.36 | 0.292 | 0.86 | 1.00 | 0.340 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 673 | 45.84 | 2.74 | 0.49 | 2.24 | 0.80 | 0.397 | 1.36 | 0.292 | 0.86 | 1.00 | 0.340 | No |
| 674 | 45.93 | 2.74 | 0.50 | 2.25 | 0.79 | 0.397 | 1.36 | 0.292 | 0.86 | 1.00 | 0.339 | No |
| 675 | 46.02 | 2.75 | 0.50 | 2.25 | 0.79 | 0.397 | 1.36 | 0.292 | 0.86 | 1.00 | 2.000 | Yes |
| 676 | 46.08 | 2.75 | 0.50 | 2.25 | 0.79 | 0.397 | 1.36 | 0.292 | 0.86 | 1.00 | 2.000 | Yes |
| 677 | 46.16 | 2.76 | 0.50 | 2.25 | 0.79 | 0.397 | 1.36 | 0.292 | 0.86 | 1.00 | 2.000 | Yes |
| 678 | 46.24 | 2.76 | 0.51 | 2.26 | 0.79 | 0.397 | 1.36 | 0.292 | 0.86 | 1.00 | 2.000 | Yes |
| 679 | 46.31 | 2.77 | 0.51 | 2.26 | 0.79 | 0.397 | 1.36 | 0.292 | 0.86 | 1.00 | 2.000 | Yes |
| 680 | 46.41 | 2.77 | 0.51 | 2.26 | 0.79 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 2.000 | Yes |
| 681 | 46.48 | 2.78 | 0.51 | 2.26 | 0.79 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 2.000 | Yes |
| 682 | 46.56 | 2.78 | 0.52 | 2.27 | 0.79 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 2.000 | Yes |
| 683 | 46.65 | 2.79 | 0.52 | 2.27 | 0.79 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 2.000 | Yes |
| 684 | 46.75 | 2.79 | 0.52 | 2.27 | 0.79 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 2.000 | Yes |
| 685 | 46.84 | 2.80 | 0.53 | 2.27 | 0.78 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 2.000 | Yes |
| 686 | 46.94 | 2.81 | 0.53 | 2.28 | 0.78 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 0.339 | No |
| 687 | 47.02 | 2.81 | 0.53 | 2.28 | 0.78 | 0.395 | 1.36 | 0.291 | 0.86 | 1.00 | 0.339 | No |
| 688 | 47.08 | 2.81 | 0.53 | 2.28 | 0.78 | 0.395 | 1.36 | 0.291 | 0.86 | 1.00 | 0.339 | No |
| 689 | 47.12 | 2.82 | 0.53 | 2.28 | 0.78 | 0.395 | 1.36 | 0.291 | 0.86 | 1.00 | 0.339 | No |
| 690 | 47.16 | 2.82 | 0.54 | 2.28 | 0.78 | 0.395 | 1.36 | 0.291 | 0.86 | 1.00 | 0.339 | No |
| 691 | 47.21 | 2.82 | 0.54 | 2.28 | 0.78 | 0.395 | 1.36 | 0.291 | 0.86 | 1.00 | 0.339 | No |
| 692 | 47.27 | 2.82 | 0.54 | 2.29 | 0.78 | 0.395 | 1.36 | 0.290 | 0.86 | 1.00 | 0.339 | No |
| 693 | 47.35 | 2.83 | 0.54 | 2.29 | 0.78 | 0.395 | 1.36 | 0.290 | 0.86 | 1.00 | 0.339 | No |
| 694 | 47.40 | 2.83 | 0.54 | 2.29 | 0.78 | 0.395 | 1.36 | 0.290 | 0.86 | 1.00 | 0.339 | No |
| 695 | 47.50 | 2.84 | 0.55 | 2.29 | 0.78 | 0.395 | 1.36 | 0.290 | 0.86 | 1.00 | 0.339 | No |
| 696 | 47.55 | 2.84 | 0.55 | 2.29 | 0.78 | 0.395 | 1.36 | 0.290 | 0.86 | 1.00 | 0.339 | No |
| 697 | 47.61 | 2.84 | 0.55 | 2.29 | 0.78 | 0.394 | 1.36 | 0.290 | 0.86 | 1.00 | 0.339 | No |
| 698 | 47.69 | 2.85 | 0.55 | 2.30 | 0.78 | 0.394 | 1.36 | 0.290 | 0.86 | 1.00 | 0.339 | No |
| 699 | 47.76 | 2.85 | 0.55 | 2.30 | 0.78 | 0.394 | 1.36 | 0.290 | 0.86 | 1.00 | 0.338 | No |
| 700 | 47.83 | 2.85 | 0.56 | 2.30 | 0.77 | 0.394 | 1.36 | 0.290 | 0.86 | 1.00 | 0.338 | No |
| 701 | 47.93 | 2.86 | 0.56 | 2.30 | 0.77 | 0.394 | 1.36 | 0.290 | 0.86 | 1.00 | 0.338 | No |
| 702 | 48.02 | 2.87 | 0.56 | 2.30 | 0.77 | 0.394 | 1.36 | 0.290 | 0.86 | 1.00 | 0.338 | No |
| 703 | 48.09 | 2.87 | 0.56 | 2.30 | 0.77 | 0.394 | 1.36 | 0.289 | 0.86 | 1.00 | 0.338 | No |
| 704 | 48.18 | 2.87 | 0.57 | 2.31 | 0.77 | 0.394 | 1.36 | 0.289 | 0.86 | 1.00 | 0.338 | No |
| 705 | 48.27 | 2.88 | 0.57 | 2.31 | 0.77 | 0.393 | 1.36 | 0.289 | 0.86 | 1.00 | 0.338 | No |
| 706 | 48.37 | 2.88 | 0.57 | 2.31 | 0.77 | 0.393 | 1.36 | 0.289 | 0.86 | 1.00 | 0.338 | No |
| 707 | 48.46 | 2.89 | 0.58 | 2.31 | 0.77 | 0.393 | 1.36 | 0.289 | 0.86 | 1.00 | 0.338 | No |
| 708 | 48.52 | 2.89 | 0.58 | 2.31 | 0.77 | 0.393 | 1.36 | 0.289 | 0.86 | 1.00 | 0.338 | No |
| 709 | 48.60 | 2.90 | 0.58 | 2.32 | 0.77 | 0.393 | 1.36 | 0.289 | 0.85 | 1.00 | 0.338 | No |
| 710 | 48.70 | 2.90 | 0.58 | 2.32 | 0.77 | 0.393 | 1.36 | 0.289 | 0.85 | 1.00 | 0.338 | No |
| 711 | 48.79 | 2.91 | 0.59 | 2.32 | 0.77 | 0.392 | 1.36 | 0.289 | 0.85 | 1.00 | 0.338 | No |
| 712 | 48.85 | 2.91 | 0.59 | 2.32 | 0.76 | 0.392 | 1.36 | 0.288 | 0.85 | 1.00 | 0.338 | No |
| 713 | 48.94 | 2.92 | 0.59 | 2.32 | 0.76 | 0.392 | 1.36 | 0.288 | 0.85 | 1.00 | 0.337 | No |
| 714 | 49.04 | 2.92 | 0.59 | 2.33 | 0.76 | 0.392 | 1.36 | 0.288 | 0.85 | 1.00 | 0.337 | No |
| 715 | 49.13 | 2.93 | 0.60 | 2.33 | 0.76 | 0.392 | 1.36 | 0.288 | 0.85 | 1.00 | 0.337 | No |
| 716 | 49.23 | 2.93 | 0.60 | 2.33 | 0.76 | 0.392 | 1.36 | 0.288 | 0.85 | 1.00 | 0.337 | No |
| 717 | 49.33 | 2.94 | 0.60 | 2.33 | 0.76 | 0.391 | 1.36 | 0.288 | 0.85 | 1.00 | 0.337 | No |
| 718 | 49.38 | 2.94 | 0.60 | 2.34 | 0.76 | 0.391 | 1.36 | 0.288 | 0.85 | 1.00 | 0.337 | No |
| 719 | 49.42 | 2.94 | 0.61 | 2.34 | 0.76 | 0.391 | 1.36 | 0.288 | 0.85 | 1.00 | 0.337 | No |
| 720 | 49.48 | 2.95 | 0.61 | 2.34 | 0.76 | 0.391 | 1.36 | 0.288 | 0.85 | 1.00 | 0.337 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 721 | 49.53 | 2.95 | 0.61 | 2.34 | 0.76 | 0.391 | 1.36 | 0.287 | 0.85 | 1.00 | 0.337 | No |
| 722 | 49.58 | 2.95 | 0.61 | 2.34 | 0.76 | 0.391 | 1.36 | 0.287 | 0.85 | 1.00 | 0.337 | No |
| 723 | 49.63 | 2.96 | 0.61 | 2.34 | 0.76 | 0.391 | 1.36 | 0.287 | 0.85 | 1.00 | 0.337 | No |
| 724 | 49.72 | 2.96 | 0.62 | 2.35 | 0.76 | 0.391 | 1.36 | 0.287 | 0.85 | 1.00 | 0.337 | No |
| 725 | 49.77 | 2.96 | 0.62 | 2.35 | 0.76 | 0.390 | 1.36 | 0.287 | 0.85 | 1.00 | 0.337 | No |
| 726 | 49.83 | 2.97 | 0.62 | 2.35 | 0.75 | 0.390 | 1.36 | 0.287 | 0.85 | 1.00 | 0.337 | No |
| 727 | 49.92 | 2.97 | 0.62 | 2.35 | 0.75 | 0.390 | 1.36 | 0.287 | 0.85 | 1.00 | 0.337 | No |
| 728 | 49.97 | 2.98 | 0.62 | 2.35 | 0.75 | 0.390 | 1.36 | 0.287 | 0.85 | 1.00 | 0.336 | No |
| 729 | 50.04 | 2.98 | 0.63 | 2.36 | 0.75 | 0.390 | 1.36 | 0.287 | 0.85 | 1.00 | 0.336 | No |
| 730 | 50.11 | 2.99 | 0.63 | 2.36 | 0.75 | 0.390 | 1.36 | 0.287 | 0.85 | 1.00 | 0.336 | No |
| 731 | 50.20 | 2.99 | 0.63 | 2.36 | 0.75 | 0.389 | 1.36 | 0.286 | 0.85 | 1.00 | 0.336 | No |
| 732 | 50.27 | 3.00 | 0.63 | 2.36 | 0.75 | 0.389 | 1.36 | 0.286 | 0.85 | 1.00 | 0.336 | No |
| 733 | 50.34 | 3.00 | 0.63 | 2.36 | 0.75 | 0.389 | 1.36 | 0.286 | 0.85 | 1.00 | 0.336 | No |
| 734 | 50.45 | 3.01 | 0.64 | 2.37 | 0.75 | 0.389 | 1.36 | 0.286 | 0.85 | 1.00 | 0.336 | No |
| 735 | 50.54 | 3.01 | 0.64 | 2.37 | 0.75 | 0.389 | 1.36 | 0.286 | 0.85 | 1.00 | 0.336 | No |
| 736 | 50.59 | 3.01 | 0.64 | 2.37 | 0.75 | 0.389 | 1.36 | 0.286 | 0.85 | 1.00 | 0.336 | No |
| 737 | 50.68 | 3.02 | 0.65 | 2.37 | 0.75 | 0.388 | 1.36 | 0.286 | 0.85 | 1.00 | 0.336 | No |
| 738 | 50.79 | 3.03 | 0.65 | 2.38 | 0.74 | 0.388 | 1.36 | 0.285 | 0.85 | 1.00 | 0.336 | No |
| 739 | 50.88 | 3.03 | 0.65 | 2.38 | 0.74 | 0.388 | 1.36 | 0.285 | 0.85 | 1.00 | 0.335 | No |
| 740 | 50.98 | 3.04 | 0.65 | 2.38 | 0.74 | 0.388 | 1.36 | 0.285 | 0.85 | 1.00 | 0.335 | No |
| 741 | 51.07 | 3.04 | 0.66 | 2.38 | 0.74 | 0.388 | 1.36 | 0.285 | 0.85 | 1.00 | 0.335 | No |
| 742 | 51.17 | 3.05 | 0.66 | 2.39 | 0.74 | 0.387 | 1.36 | 0.285 | 0.85 | 1.00 | 0.335 | No |
| 743 | 51.24 | 3.05 | 0.66 | 2.39 | 0.74 | 0.387 | 1.36 | 0.285 | 0.85 | 1.00 | 0.335 | No |
| 744 | 51.33 | 3.06 | 0.67 | 2.39 | 0.74 | 0.387 | 1.36 | 0.285 | 0.85 | 1.00 | 0.335 | No |
| 745 | 51.46 | 3.06 | 0.67 | 2.39 | 0.74 | 0.387 | 1.36 | 0.284 | 0.85 | 1.00 | 0.335 | No |
| 746 | 51.46 | 3.06 | 0.67 | 2.39 | 0.74 | 0.387 | 1.36 | 0.284 | 0.85 | 1.00 | 0.335 | No |
| 747 | 51.51 | 3.07 | 0.67 | 2.40 | 0.74 | 0.387 | 1.36 | 0.284 | 0.85 | 1.00 | 0.335 | No |
| 748 | 51.56 | 3.07 | 0.67 | 2.40 | 0.74 | 0.386 | 1.36 | 0.284 | 0.85 | 1.00 | 0.335 | No |
| 749 | 51.65 | 3.07 | 0.68 | 2.40 | 0.74 | 0.386 | 1.36 | 0.284 | 0.85 | 1.00 | 0.335 | No |
| 750 | 51.71 | 3.08 | 0.68 | 2.40 | 0.74 | 0.386 | 1.36 | 0.284 | 0.85 | 1.00 | 0.334 | No |
| 751 | 51.79 | 3.08 | 0.68 | 2.40 | 0.73 | 0.386 | 1.36 | 0.284 | 0.85 | 1.00 | 0.334 | No |
| 752 | 51.85 | 3.09 | 0.68 | 2.40 | 0.73 | 0.386 | 1.36 | 0.284 | 0.85 | 1.00 | 0.334 | No |
| 753 | 51.94 | 3.09 | 0.68 | 2.41 | 0.73 | 0.386 | 1.36 | 0.284 | 0.85 | 1.00 | 0.334 | No |
| 754 | 51.99 | 3.09 | 0.69 | 2.41 | 0.73 | 0.385 | 1.36 | 0.283 | 0.85 | 1.00 | 0.334 | No |
| 755 | 52.09 | 3.10 | 0.69 | 2.41 | 0.73 | 0.385 | 1.36 | 0.283 | 0.85 | 1.00 | 0.334 | No |
| 756 | 52.19 | 3.11 | 0.69 | 2.41 | 0.73 | 0.385 | 1.36 | 0.283 | 0.85 | 1.00 | 0.334 | No |
| 757 | 52.28 | 3.11 | 0.70 | 2.42 | 0.73 | 0.385 | 1.36 | 0.283 | 0.85 | 1.00 | 0.334 | No |
| 758 | 52.35 | 3.12 | 0.70 | 2.42 | 0.73 | 0.385 | 1.36 | 0.283 | 0.85 | 1.00 | 0.334 | No |
| 759 | 52.43 | 3.12 | 0.70 | 2.42 | 0.73 | 0.384 | 1.36 | 0.283 | 0.85 | 1.00 | 0.334 | No |
| 760 | 52.52 | 3.13 | 0.70 | 2.42 | 0.73 | 0.384 | 1.36 | 0.282 | 0.85 | 1.00 | 0.333 | No |
| 761 | 52.62 | 3.13 | 0.71 | 2.43 | 0.73 | 0.384 | 1.36 | 0.282 | 0.85 | 1.00 | 0.333 | No |
| 762 | 52.72 | 3.14 | 0.71 | 2.43 | 0.73 | 0.384 | 1.36 | 0.282 | 0.85 | 1.00 | 0.333 | No |
| 763 | 52.81 | 3.14 | 0.71 | 2.43 | 0.72 | 0.383 | 1.36 | 0.282 | 0.85 | 1.00 | 0.333 | No |
| 764 | 52.91 | 3.15 | 0.71 | 2.44 | 0.72 | 0.383 | 1.36 | 0.282 | 0.85 | 1.00 | 0.333 | No |
| 765 | 53.00 | 3.16 | 0.72 | 2.44 | 0.72 | 0.383 | 1.36 | 0.282 | 0.85 | 1.00 | 0.333 | No |
| 766 | 53.10 | 3.16 | 0.72 | 2.44 | 0.72 | 0.383 | 1.36 | 0.281 | 0.85 | 1.00 | 2.000 | Yes |
| 767 | 53.20 | 3.17 | 0.72 | 2.45 | 0.72 | 0.382 | 1.36 | 0.281 | 0.85 | 1.00 | 2.000 | Yes |
| 768 | 53.29 | 3.18 | 0.73 | 2.45 | 0.72 | 0.382 | 1.36 | 0.281 | 0.85 | 1.00 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 769 | 53.38 | 3.18 | 0.73 | 2.45 | 0.72 | 0.382 | 1.36 | 0.281 | 0.85 | 1.00 | 2.000 | Yes |
| 770 | 53.46 | 3.19 | 0.73 | 2.46 | 0.72 | 0.382 | 1.36 | 0.281 | 0.85 | 1.00 | 2.000 | Yes |
| 771 | 53.53 | 3.19 | 0.73 | 2.46 | 0.72 | 0.382 | 1.36 | 0.281 | 0.84 | 1.00 | 2.000 | Yes |
| 772 | 53.63 | 3.20 | 0.74 | 2.46 | 0.72 | 0.381 | 1.36 | 0.280 | 0.84 | 1.00 | 2.000 | Yes |
| 773 | 53.73 | 3.21 | 0.74 | 2.47 | 0.72 | 0.381 | 1.36 | 0.280 | 0.84 | 1.00 | 2.000 | Yes |
| 774 | 53.82 | 3.21 | 0.74 | 2.47 | 0.71 | 0.381 | 1.36 | 0.280 | 0.84 | 1.00 | 2.000 | Yes |
| 775 | 53.92 | 3.22 | 0.75 | 2.47 | 0.71 | 0.380 | 1.36 | 0.280 | 0.84 | 1.00 | 2.000 | Yes |
| 776 | 53.94 | 3.22 | 0.75 | 2.47 | 0.71 | 0.380 | 1.36 | 0.280 | 0.84 | 1.00 | 0.331 | No |
| 777 | 53.96 | 3.22 | 0.75 | 2.47 | 0.71 | 0.380 | 1.36 | 0.280 | 0.84 | 1.00 | 0.331 | No |
| 778 | 53.97 | 3.22 | 0.75 | 2.47 | 0.71 | 0.380 | 1.36 | 0.280 | 0.84 | 1.00 | 0.331 | No |
| 779 | 54.05 | 3.23 | 0.75 | 2.48 | 0.71 | 0.380 | 1.36 | 0.279 | 0.84 | 1.00 | 0.331 | No |
| 780 | 54.08 | 3.23 | 0.75 | 2.48 | 0.71 | 0.380 | 1.36 | 0.279 | 0.84 | 1.00 | 0.331 | No |
| 781 | 54.13 | 3.23 | 0.75 | 2.48 | 0.71 | 0.380 | 1.36 | 0.279 | 0.84 | 1.00 | 0.331 | No |
| 782 | 54.19 | 3.24 | 0.75 | 2.48 | 0.71 | 0.380 | 1.36 | 0.279 | 0.84 | 1.00 | 0.331 | No |
| 783 | 54.25 | 3.24 | 0.76 | 2.48 | 0.71 | 0.380 | 1.36 | 0.279 | 0.84 | 1.00 | 0.331 | No |
| 784 | 54.28 | 3.24 | 0.76 | 2.49 | 0.71 | 0.379 | 1.36 | 0.279 | 0.84 | 1.00 | 0.331 | No |
| 785 | 54.29 | 3.24 | 0.76 | 2.49 | 0.71 | 0.379 | 1.36 | 0.279 | 0.84 | 1.00 | 0.331 | No |
| 786 | 54.34 | 3.25 | 0.76 | 2.49 | 0.71 | 0.379 | 1.36 | 0.279 | 0.84 | 1.00 | 0.331 | No |
| 787 | 54.35 | 3.25 | 0.76 | 2.49 | 0.71 | 0.379 | 1.36 | 0.279 | 0.84 | 1.00 | 0.331 | No |
| 788 | 54.40 | 3.25 | 0.76 | 2.49 | 0.71 | 0.379 | 1.36 | 0.279 | 0.84 | 1.00 | 0.331 | No |
| 789 | 54.44 | 3.25 | 0.76 | 2.49 | 0.71 | 0.379 | 1.36 | 0.279 | 0.84 | 1.00 | 0.331 | No |
| 790 | 54.49 | 3.26 | 0.76 | 2.49 | 0.71 | 0.379 | 1.36 | 0.279 | 0.84 | 1.00 | 0.331 | No |
| 791 | 54.53 | 3.26 | 0.77 | 2.50 | 0.71 | 0.379 | 1.36 | 0.278 | 0.84 | 1.00 | 0.331 | No |
| 792 | 54.57 | 3.26 | 0.77 | 2.50 | 0.71 | 0.379 | 1.36 | 0.278 | 0.84 | 1.00 | 0.331 | No |
| 793 | 54.58 | 3.26 | 0.77 | 2.50 | 0.71 | 0.379 | 1.36 | 0.278 | 0.84 | 1.00 | 0.331 | No |
| 794 | 54.63 | 3.27 | 0.77 | 2.50 | 0.71 | 0.378 | 1.36 | 0.278 | 0.84 | 1.00 | 0.330 | No |
| 795 | 54.68 | 3.27 | 0.77 | 2.50 | 0.71 | 0.378 | 1.36 | 0.278 | 0.84 | 1.00 | 0.330 | No |
| 796 | 54.73 | 3.27 | 0.77 | 2.50 | 0.71 | 0.378 | 1.36 | 0.278 | 0.84 | 1.00 | 0.330 | No |
| 797 | 54.78 | 3.28 | 0.77 | 2.50 | 0.71 | 0.378 | 1.36 | 0.278 | 0.84 | 1.00 | 0.330 | No |
| 798 | 54.83 | 3.28 | 0.77 | 2.51 | 0.70 | 0.378 | 1.36 | 0.278 | 0.84 | 1.00 | 0.330 | No |
| 799 | 54.88 | 3.28 | 0.78 | 2.51 | 0.70 | 0.378 | 1.36 | 0.278 | 0.84 | 1.00 | 0.330 | No |
| 800 | 54.92 | 3.29 | 0.78 | 2.51 | 0.70 | 0.378 | 1.36 | 0.278 | 0.84 | 1.00 | 0.330 | No |
| 801 | 54.97 | 3.29 | 0.78 | 2.51 | 0.70 | 0.378 | 1.36 | 0.278 | 0.84 | 1.00 | 0.330 | No |
| 802 | 55.02 | 3.29 | 0.78 | 2.51 | 0.70 | 0.377 | 1.36 | 0.277 | 0.84 | 1.00 | 0.330 | No |
| 803 | 55.12 | 3.30 | 0.78 | 2.52 | 0.70 | 0.377 | 1.36 | 0.277 | 0.84 | 1.00 | 0.330 | No |
| 804 | 55.17 | 3.30 | 0.79 | 2.52 | 0.70 | 0.377 | 1.36 | 0.277 | 0.84 | 1.00 | 0.330 | No |
| 805 | 55.25 | 3.31 | 0.79 | 2.52 | 0.70 | 0.377 | 1.36 | 0.277 | 0.84 | 1.00 | 0.330 | No |
| 806 | 55.31 | 3.31 | 0.79 | 2.52 | 0.70 | 0.377 | 1.36 | 0.277 | 0.84 | 1.00 | 0.329 | No |
| 807 | 55.36 | 3.32 | 0.79 | 2.53 | 0.70 | 0.376 | 1.36 | 0.277 | 0.84 | 1.00 | 0.329 | No |
| 808 | 55.45 | 3.32 | 0.79 | 2.53 | 0.70 | 0.376 | 1.36 | 0.277 | 0.84 | 1.00 | 0.329 | No |
| 809 | 55.50 | 3.33 | 0.80 | 2.53 | 0.70 | 0.376 | 1.36 | 0.276 | 0.84 | 1.00 | 0.329 | No |
| 810 | 55.60 | 3.33 | 0.80 | 2.53 | 0.70 | 0.376 | 1.36 | 0.276 | 0.84 | 1.00 | 0.329 | No |
| 811 | 55.65 | 3.34 | 0.80 | 2.54 | 0.70 | 0.376 | 1.36 | 0.276 | 0.84 | 1.00 | 0.329 | No |
| 812 | 55.71 | 3.34 | 0.80 | 2.54 | 0.70 | 0.375 | 1.36 | 0.276 | 0.84 | 1.00 | 0.329 | No |
| 813 | 55.75 | 3.34 | 0.80 | 2.54 | 0.70 | 0.375 | 1.36 | 0.276 | 0.84 | 1.00 | 0.329 | No |
| 814 | 55.79 | 3.35 | 0.80 | 2.54 | 0.70 | 0.375 | 1.36 | 0.276 | 0.84 | 1.00 | 0.329 | No |
| 815 | 55.84 | 3.35 | 0.81 | 2.54 | 0.70 | 0.375 | 1.36 | 0.276 | 0.84 | 1.00 | 0.329 | No |
| 816 | 55.89 | 3.35 | 0.81 | 2.55 | 0.70 | 0.375 | 1.36 | 0.276 | 0.84 | 1.00 | 0.329 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 817 | 55.90 | 3.35 | 0.81 | 2.55 | 0.69 | 0.375 | 1.36 | 0.276 | 0.84 | 1.00 | 0.329 | No |
| 818 | 55.94 | 3.36 | 0.81 | 2.55 | 0.69 | 0.375 | 1.36 | 0.276 | 0.84 | 1.00 | 0.328 | No |
| 819 | 55.99 | 3.36 | 0.81 | 2.55 | 0.69 | 0.375 | 1.36 | 0.275 | 0.84 | 1.00 | 0.328 | No |
| 820 | 56.03 | 3.36 | 0.81 | 2.55 | 0.69 | 0.375 | 1.36 | 0.275 | 0.84 | 1.00 | 0.328 | No |
| 821 | 56.08 | 3.37 | 0.81 | 2.55 | 0.69 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 0.328 | No |
| 822 | 56.14 | 3.37 | 0.82 | 2.55 | 0.69 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 0.328 | No |
| 823 | 56.22 | 3.38 | 0.82 | 2.56 | 0.69 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 0.328 | No |
| 824 | 56.28 | 3.38 | 0.82 | 2.56 | 0.69 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 0.328 | No |
| 825 | 56.33 | 3.38 | 0.82 | 2.56 | 0.69 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 0.328 | No |
| 826 | 56.38 | 3.39 | 0.82 | 2.56 | 0.69 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 0.328 | No |
| 827 | 56.45 | 3.39 | 0.83 | 2.56 | 0.69 | 0.373 | 1.36 | 0.275 | 0.84 | 1.00 | 0.328 | No |
| 828 | 56.52 | 3.39 | 0.83 | 2.57 | 0.69 | 0.373 | 1.36 | 0.274 | 0.84 | 1.00 | 0.328 | No |
| 829 | 56.62 | 3.40 | 0.83 | 2.57 | 0.69 | 0.373 | 1.36 | 0.274 | 0.84 | 1.00 | 0.327 | No |
| 830 | 56.66 | 3.40 | 0.83 | 2.57 | 0.69 | 0.373 | 1.36 | 0.274 | 0.84 | 1.00 | 0.327 | No |
| 831 | 56.73 | 3.41 | 0.83 | 2.57 | 0.69 | 0.373 | 1.36 | 0.274 | 0.84 | 1.00 | 0.327 | No |
| 832 | 56.81 | 3.41 | 0.84 | 2.58 | 0.69 | 0.372 | 1.36 | 0.274 | 0.84 | 1.00 | 0.327 | No |
| 833 | 56.95 | 3.42 | 0.84 | 2.58 | 0.69 | 0.372 | 1.36 | 0.274 | 0.84 | 1.00 | 0.327 | No |
| 834 | 57.00 | 3.43 | 0.84 | 2.58 | 0.68 | 0.372 | 1.36 | 0.273 | 0.84 | 1.00 | 0.327 | No |
| 835 | 57.09 | 3.43 | 0.85 | 2.59 | 0.68 | 0.372 | 1.36 | 0.273 | 0.84 | 1.00 | 0.327 | No |
| 836 | 57.19 | 3.44 | 0.85 | 2.59 | 0.68 | 0.371 | 1.36 | 0.273 | 0.84 | 1.00 | 0.327 | No |
| 837 | 57.27 | 3.45 | 0.85 | 2.59 | 0.68 | 0.371 | 1.36 | 0.273 | 0.84 | 1.00 | 0.326 | No |
| 838 | 57.35 | 3.45 | 0.85 | 2.60 | 0.68 | 0.371 | 1.36 | 0.273 | 0.84 | 1.00 | 0.326 | No |
| 839 | 57.44 | 3.46 | 0.86 | 2.60 | 0.68 | 0.371 | 1.36 | 0.273 | 0.84 | 1.00 | 0.326 | No |
| 840 | 57.50 | 3.46 | 0.86 | 2.60 | 0.68 | 0.371 | 1.36 | 0.272 | 0.84 | 1.00 | 0.326 | No |
| 841 | 57.52 | 3.46 | 0.86 | 2.60 | 0.68 | 0.370 | 1.36 | 0.272 | 0.84 | 1.00 | 0.326 | No |
| 842 | 57.58 | 3.47 | 0.86 | 2.60 | 0.68 | 0.370 | 1.36 | 0.272 | 0.84 | 1.00 | 0.326 | No |
| 843 | 57.63 | 3.47 | 0.86 | 2.61 | 0.68 | 0.370 | 1.36 | 0.272 | 0.83 | 1.00 | 0.326 | No |
| 844 | 57.72 | 3.48 | 0.86 | 2.61 | 0.68 | 0.370 | 1.36 | 0.272 | 0.83 | 1.00 | 0.326 | No |
| 845 | 57.77 | 3.48 | 0.87 | 2.61 | 0.68 | 0.370 | 1.36 | 0.272 | 0.83 | 1.00 | 0.326 | No |
| 846 | 57.82 | 3.48 | 0.87 | 2.61 | 0.68 | 0.370 | 1.36 | 0.272 | 0.83 | 1.00 | 0.326 | No |
| 847 | 57.91 | 3.49 | 0.87 | 2.62 | 0.68 | 0.369 | 1.36 | 0.272 | 0.83 | 1.00 | 0.326 | No |
| 848 | 57.96 | 3.49 | 0.87 | 2.62 | 0.68 | 0.369 | 1.36 | 0.271 | 0.83 | 1.00 | 0.325 | No |
| 849 | 58.02 | 3.49 | 0.87 | 2.62 | 0.68 | 0.369 | 1.36 | 0.271 | 0.83 | 1.00 | 0.325 | No |
| 850 | 58.09 | 3.50 | 0.88 | 2.62 | 0.68 | 0.369 | 1.36 | 0.271 | 0.83 | 1.00 | 0.325 | No |
| 851 | 58.16 | 3.50 | 0.88 | 2.63 | 0.67 | 0.369 | 1.36 | 0.271 | 0.83 | 1.00 | 0.325 | No |
| 852 | 58.25 | 3.51 | 0.88 | 2.63 | 0.67 | 0.368 | 1.36 | 0.271 | 0.83 | 1.00 | 0.325 | No |
| 853 | 58.30 | 3.51 | 0.88 | 2.63 | 0.67 | 0.368 | 1.36 | 0.271 | 0.83 | 1.00 | 0.325 | No |
| 854 | 58.40 | 3.52 | 0.89 | 2.63 | 0.67 | 0.368 | 1.36 | 0.271 | 0.83 | 1.00 | 0.325 | No |
| 855 | 58.50 | 3.53 | 0.89 | 2.64 | 0.67 | 0.368 | 1.36 | 0.270 | 0.83 | 1.00 | 0.325 | No |
| 856 | 58.56 | 3.53 | 0.89 | 2.64 | 0.67 | 0.368 | 1.36 | 0.270 | 0.83 | 1.00 | 0.325 | No |
| 857 | 58.64 | 3.54 | 0.89 | 2.64 | 0.67 | 0.367 | 1.36 | 0.270 | 0.83 | 1.00 | 0.324 | No |
| 858 | 58.73 | 3.54 | 0.90 | 2.65 | 0.67 | 0.367 | 1.36 | 0.270 | 0.83 | 1.00 | 0.324 | No |
| 859 | 58.78 | 3.55 | 0.90 | 2.65 | 0.67 | 0.367 | 1.36 | 0.270 | 0.83 | 1.00 | 0.324 | No |
| 860 | 58.88 | 3.55 | 0.90 | 2.65 | 0.67 | 0.367 | 1.36 | 0.270 | 0.83 | 1.00 | 0.324 | No |
| 861 | 58.97 | 3.56 | 0.90 | 2.65 | 0.67 | 0.367 | 1.36 | 0.269 | 0.83 | 1.00 | 0.324 | No |
| 862 | 59.07 | 3.57 | 0.91 | 2.66 | 0.67 | 0.366 | 1.36 | 0.269 | 0.83 | 1.00 | 0.324 | No |
| 863 | 59.13 | 3.57 | 0.91 | 2.66 | 0.67 | 0.366 | 1.36 | 0.269 | 0.83 | 1.00 | 0.324 | No |
| 864 | 59.23 | 3.58 | 0.91 | 2.66 | 0.67 | 0.366 | 1.36 | 0.269 | 0.83 | 1.00 | 0.324 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 865 | 59.31 | 3.58 | 0.91 | 2.67 | 0.66 | 0.366 | 1.36 | 0.269 | 0.83 | 1.00 | 0.323 | No |
| 866 | 59.38 | 3.59 | 0.92 | 2.67 | 0.66 | 0.365 | 1.36 | 0.269 | 0.83 | 1.00 | 0.323 | No |
| 867 | 59.41 | 3.59 | 0.92 | 2.67 | 0.66 | 0.365 | 1.36 | 0.269 | 0.83 | 1.00 | 0.323 | No |
| 868 | 59.46 | 3.59 | 0.92 | 2.67 | 0.66 | 0.365 | 1.36 | 0.269 | 0.83 | 1.00 | 0.323 | No |
| 869 | 59.51 | 3.59 | 0.92 | 2.67 | 0.66 | 0.365 | 1.36 | 0.268 | 0.83 | 1.00 | 0.323 | No |
| 870 | 59.57 | 3.60 | 0.92 | 2.68 | 0.66 | 0.365 | 1.36 | 0.268 | 0.83 | 1.00 | 0.323 | No |
| 871 | 59.66 | 3.60 | 0.93 | 2.68 | 0.66 | 0.365 | 1.36 | 0.268 | 0.83 | 1.00 | 0.323 | No |
| 872 | 59.75 | 3.61 | 0.93 | 2.68 | 0.66 | 0.365 | 1.36 | 0.268 | 0.83 | 1.00 | 0.323 | No |
| 873 | 59.80 | 3.61 | 0.93 | 2.68 | 0.66 | 0.364 | 1.36 | 0.268 | 0.83 | 1.00 | 0.323 | No |
| 874 | 59.85 | 3.62 | 0.93 | 2.69 | 0.66 | 0.364 | 1.36 | 0.268 | 0.83 | 1.00 | 0.323 | No |
| 875 | 59.91 | 3.62 | 0.93 | 2.69 | 0.66 | 0.364 | 1.36 | 0.268 | 0.83 | 1.00 | 0.323 | No |
| 876 | 59.99 | 3.63 | 0.94 | 2.69 | 0.66 | 0.364 | 1.36 | 0.268 | 0.83 | 1.00 | 0.322 | No |
| 877 | 60.05 | 3.63 | 0.94 | 2.69 | 0.66 | 0.364 | 1.36 | 0.267 | 0.83 | 1.00 | 0.322 | No |
| 878 | 60.09 | 3.63 | 0.94 | 2.69 | 0.66 | 0.364 | 1.36 | 0.267 | 0.83 | 1.00 | 0.322 | No |
| 879 | 60.14 | 3.64 | 0.94 | 2.70 | 0.66 | 0.363 | 1.36 | 0.267 | 0.83 | 1.00 | 0.322 | No |
| 880 | 60.19 | 3.64 | 0.94 | 2.70 | 0.66 | 0.363 | 1.36 | 0.267 | 0.83 | 1.00 | 0.322 | No |
| 881 | 60.22 | 3.64 | 0.94 | 2.70 | 0.66 | 0.363 | 1.36 | 0.267 | 0.83 | 1.00 | 0.322 | No |
| 882 | 60.28 | 3.65 | 0.94 | 2.70 | 0.66 | 0.363 | 1.36 | 0.267 | 0.83 | 1.00 | 0.322 | No |
| 883 | 60.33 | 3.65 | 0.95 | 2.70 | 0.66 | 0.363 | 1.36 | 0.267 | 0.83 | 1.00 | 0.322 | No |
| 884 | 60.38 | 3.65 | 0.95 | 2.71 | 0.66 | 0.363 | 1.36 | 0.267 | 0.83 | 1.00 | 0.322 | No |
| 885 | 60.42 | 3.66 | 0.95 | 2.71 | 0.66 | 0.363 | 1.36 | 0.267 | 0.83 | 1.00 | 0.322 | No |
| 886 | 60.48 | 3.66 | 0.95 | 2.71 | 0.66 | 0.363 | 1.36 | 0.267 | 0.83 | 1.00 | 0.322 | No |
| 887 | 60.57 | 3.67 | 0.95 | 2.71 | 0.65 | 0.362 | 1.36 | 0.266 | 0.83 | 1.00 | 0.322 | No |
| 888 | 60.66 | 3.67 | 0.96 | 2.72 | 0.65 | 0.362 | 1.36 | 0.266 | 0.83 | 1.00 | 0.321 | No |
| 889 | 60.68 | 3.67 | 0.96 | 2.72 | 0.65 | 0.362 | 1.36 | 0.266 | 0.83 | 1.00 | 0.321 | No |
| 890 | 60.69 | 3.67 | 0.96 | 2.72 | 0.65 | 0.362 | 1.36 | 0.266 | 0.83 | 1.00 | 0.321 | No |
| 891 | 60.74 | 3.68 | 0.96 | 2.72 | 0.65 | 0.362 | 1.36 | 0.266 | 0.83 | 1.00 | 0.321 | No |
| 892 | 60.79 | 3.68 | 0.96 | 2.72 | 0.65 | 0.362 | 1.36 | 0.266 | 0.83 | 1.00 | 0.321 | No |
| 893 | 60.84 | 3.68 | 0.96 | 2.72 | 0.65 | 0.362 | 1.36 | 0.266 | 0.83 | 1.00 | 0.321 | No |
| 894 | 60.89 | 3.69 | 0.96 | 2.72 | 0.65 | 0.362 | 1.36 | 0.266 | 0.83 | 1.00 | 0.321 | No |
| 895 | 60.98 | 3.69 | 0.97 | 2.73 | 0.65 | 0.361 | 1.36 | 0.266 | 0.83 | 1.00 | 0.321 | No |
| 896 | 61.03 | 3.69 | 0.97 | 2.73 | 0.65 | 0.361 | 1.36 | 0.266 | 0.83 | 1.00 | 0.321 | No |
| 897 | 61.08 | 3.70 | 0.97 | 2.73 | 0.65 | 0.361 | 1.36 | 0.265 | 0.83 | 1.00 | 0.321 | No |
| 898 | 61.18 | 3.70 | 0.97 | 2.73 | 0.65 | 0.361 | 1.36 | 0.265 | 0.83 | 1.00 | 0.321 | No |
| 899 | 61.23 | 3.71 | 0.97 | 2.73 | 0.65 | 0.361 | 1.36 | 0.265 | 0.83 | 1.00 | 0.321 | No |
| 900 | 61.31 | 3.71 | 0.98 | 2.74 | 0.65 | 0.361 | 1.36 | 0.265 | 0.83 | 1.00 | 0.321 | No |
| 901 | 61.42 | 3.72 | 0.98 | 2.74 | 0.65 | 0.360 | 1.36 | 0.265 | 0.83 | 1.00 | 0.320 | No |
| 902 | 61.47 | 3.72 | 0.98 | 2.74 | 0.65 | 0.360 | 1.36 | 0.265 | 0.83 | 1.00 | 0.320 | No |
| 903 | 61.51 | 3.73 | 0.98 | 2.74 | 0.65 | 0.360 | 1.36 | 0.265 | 0.83 | 1.00 | 0.320 | No |
| 904 | 61.54 | 3.73 | 0.98 | 2.74 | 0.65 | 0.360 | 1.36 | 0.265 | 0.83 | 1.00 | 0.320 | No |
| 905 | 61.57 | 3.73 | 0.98 | 2.74 | 0.65 | 0.360 | 1.36 | 0.265 | 0.83 | 1.00 | 0.320 | No |
| 906 | 61.58 | 3.73 | 0.99 | 2.75 | 0.65 | 0.360 | 1.36 | 0.265 | 0.83 | 1.00 | 0.320 | No |
| 907 | 61.61 | 3.73 | 0.99 | 2.75 | 0.65 | 0.360 | 1.36 | 0.265 | 0.83 | 1.00 | 0.320 | No |
| 908 | 61.63 | 3.73 | 0.99 | 2.75 | 0.65 | 0.360 | 1.36 | 0.265 | 0.83 | 1.00 | 0.320 | No |
| 909 | 61.63 | 3.73 | 0.99 | 2.75 | 0.65 | 0.360 | 1.36 | 0.264 | 0.83 | 1.00 | 0.320 | No |
| 910 | 61.66 | 3.74 | 0.99 | 2.75 | 0.65 | 0.360 | 1.36 | 0.264 | 0.83 | 1.00 | 0.320 | No |
| 911 | 61.67 | 3.74 | 0.99 | 2.75 | 0.65 | 0.360 | 1.36 | 0.264 | 0.83 | 1.00 | 0.320 | No |
| 912 | 61.70 | 3.74 | 0.99 | 2.75 | 0.65 | 0.360 | 1.36 | 0.264 | 0.83 | 1.00 | 0.320 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 913 | 61.71 | 3.74 | 0.99 | 2.75 | 0.65 | 0.360 | 1.36 | 0.264 | 0.83 | 1.00 | 0.320 | No |
| 914 | 61.76 | 3.74 | 0.99 | 2.75 | 0.65 | 0.359 | 1.36 | 0.264 | 0.83 | 1.00 | 0.320 | No |
| 915 | 61.80 | 3.75 | 0.99 | 2.75 | 0.65 | 0.359 | 1.36 | 0.264 | 0.83 | 1.00 | 0.320 | No |
| 916 | 61.84 | 3.75 | 0.99 | 2.75 | 0.64 | 0.359 | 1.36 | 0.264 | 0.83 | 1.00 | 0.320 | No |
| 917 | 61.86 | 3.75 | 0.99 | 2.75 | 0.64 | 0.359 | 1.36 | 0.264 | 0.83 | 1.00 | 0.320 | No |
| 918 | 61.93 | 3.75 | 1.00 | 2.76 | 0.64 | 0.359 | 1.36 | 0.264 | 0.83 | 1.00 | 0.320 | No |
| 919 | 61.98 | 3.76 | 1.00 | 2.76 | 0.64 | 0.359 | 1.36 | 0.264 | 0.83 | 1.00 | 0.320 | No |
| 920 | 62.04 | 3.76 | 1.00 | 2.76 | 0.64 | 0.359 | 1.36 | 0.264 | 0.83 | 1.00 | 0.320 | No |
| 921 | 62.09 | 3.76 | 1.00 | 2.76 | 0.64 | 0.359 | 1.36 | 0.264 | 0.83 | 1.00 | 0.319 | No |
| 922 | 62.14 | 3.77 | 1.00 | 2.76 | 0.64 | 0.359 | 1.36 | 0.264 | 0.83 | 1.00 | 0.319 | No |
| 923 | 62.19 | 3.77 | 1.00 | 2.77 | 0.64 | 0.358 | 1.36 | 0.264 | 0.83 | 1.00 | 0.319 | No |
| 924 | 62.24 | 3.77 | 1.01 | 2.77 | 0.64 | 0.358 | 1.36 | 0.263 | 0.83 | 1.00 | 0.319 | No |
| 925 | 62.26 | 3.77 | 1.01 | 2.77 | 0.64 | 0.358 | 1.36 | 0.263 | 0.83 | 1.00 | 0.319 | No |
| 926 | 62.29 | 3.78 | 1.01 | 2.77 | 0.64 | 0.358 | 1.36 | 0.263 | 0.82 | 1.00 | 0.319 | No |
| 927 | 62.38 | 3.78 | 1.01 | 2.77 | 0.64 | 0.358 | 1.36 | 0.263 | 0.82 | 1.00 | 0.319 | No |
| 928 | 62.44 | 3.79 | 1.01 | 2.77 | 0.64 | 0.358 | 1.36 | 0.263 | 0.82 | 1.00 | 0.319 | No |
| 929 | 62.46 | 3.79 | 1.01 | 2.78 | 0.64 | 0.358 | 1.36 | 0.263 | 0.82 | 1.00 | 0.319 | No |
| 930 | 62.47 | 3.79 | 1.01 | 2.78 | 0.64 | 0.358 | 1.36 | 0.263 | 0.82 | 1.00 | 0.319 | No |
| 931 | 62.51 | 3.79 | 1.01 | 2.78 | 0.64 | 0.358 | 1.36 | 0.263 | 0.82 | 1.00 | 0.319 | No |
| 932 | 62.56 | 3.79 | 1.02 | 2.78 | 0.64 | 0.358 | 1.36 | 0.263 | 0.82 | 1.00 | 0.319 | No |
| 933 | 62.60 | 3.80 | 1.02 | 2.78 | 0.64 | 0.357 | 1.36 | 0.263 | 0.82 | 1.00 | 0.319 | No |
| 934 | 62.65 | 3.80 | 1.02 | 2.78 | 0.64 | 0.357 | 1.36 | 0.263 | 0.82 | 1.00 | 0.319 | No |
| 935 | 62.70 | 3.80 | 1.02 | 2.78 | 0.64 | 0.357 | 1.36 | 0.263 | 0.82 | 1.00 | 0.319 | No |
| 936 | 62.75 | 3.81 | 1.02 | 2.79 | 0.64 | 0.357 | 1.36 | 0.263 | 0.82 | 1.00 | 0.319 | No |
| 937 | 62.80 | 3.81 | 1.02 | 2.79 | 0.64 | 0.357 | 1.36 | 0.262 | 0.82 | 1.00 | 0.319 | No |
| 938 | 62.85 | 3.81 | 1.02 | 2.79 | 0.64 | 0.357 | 1.36 | 0.262 | 0.82 | 1.00 | 0.318 | No |
| 939 | 62.89 | 3.82 | 1.03 | 2.79 | 0.64 | 0.357 | 1.36 | 0.262 | 0.82 | 1.00 | 0.318 | No |
| 940 | 62.97 | 3.82 | 1.03 | 2.79 | 0.64 | 0.357 | 1.36 | 0.262 | 0.82 | 1.00 | 0.318 | No |
| 941 | 63.04 | 3.83 | 1.03 | 2.80 | 0.64 | 0.356 | 1.36 | 0.262 | 0.82 | 1.00 | 0.318 | No |
| 942 | 63.09 | 3.83 | 1.03 | 2.80 | 0.64 | 0.356 | 1.36 | 0.262 | 0.82 | 1.00 | 0.318 | No |
| 943 | 63.13 | 3.83 | 1.03 | 2.80 | 0.64 | 0.356 | 1.36 | 0.262 | 0.82 | 1.00 | 0.318 | No |
| 944 | 63.19 | 3.84 | 1.04 | 2.80 | 0.63 | 0.356 | 1.36 | 0.262 | 0.82 | 1.00 | 0.318 | No |
| 945 | 63.23 | 3.84 | 1.04 | 2.80 | 0.63 | 0.356 | 1.36 | 0.262 | 0.82 | 1.00 | 0.318 | No |
| 946 | 63.28 | 3.84 | 1.04 | 2.81 | 0.63 | 0.356 | 1.36 | 0.262 | 0.82 | 1.00 | 0.318 | No |
| 947 | 63.32 | 3.85 | 1.04 | 2.81 | 0.63 | 0.356 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |
| 948 | 63.38 | 3.85 | 1.04 | 2.81 | 0.63 | 0.356 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |
| 949 | 63.44 | 3.85 | 1.04 | 2.81 | 0.63 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |
| 950 | 63.52 | 3.86 | 1.05 | 2.81 | 0.63 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |
| 951 | 63.57 | 3.86 | 1.05 | 2.82 | 0.63 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.318 | No |
| 952 | 63.66 | 3.87 | 1.05 | 2.82 | 0.63 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.317 | No |
| 953 | 63.73 | 3.87 | 1.05 | 2.82 | 0.63 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.317 | No |
| 954 | 63.76 | 3.88 | 1.05 | 2.82 | 0.63 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.317 | No |
| 955 | 63.76 | 3.88 | 1.05 | 2.82 | 0.63 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.317 | No |
| 956 | 63.78 | 3.88 | 1.05 | 2.82 | 0.63 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.317 | No |
| 957 | 63.81 | 3.88 | 1.05 | 2.82 | 0.63 | 0.355 | 1.36 | 0.261 | 0.82 | 1.00 | 0.317 | No |
| 958 | 63.85 | 3.88 | 1.06 | 2.83 | 0.63 | 0.354 | 1.36 | 0.261 | 0.82 | 1.00 | 0.317 | No |
| 959 | 63.86 | 3.88 | 1.06 | 2.83 | 0.63 | 0.354 | 1.36 | 0.261 | 0.82 | 1.00 | 0.317 | No |
| 960 | 63.91 | 3.89 | 1.06 | 2.83 | 0.63 | 0.354 | 1.36 | 0.260 | 0.82 | 1.00 | 0.317 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 961 | 63.94 | 3.89 | 1.06 | 2.83 | 0.63 | 0.354 | 1.36 | 0.260 | 0.82 | 1.00 | 0.317 | No |
| 962 | 63.95 | 3.89 | 1.06 | 2.83 | 0.63 | 0.354 | 1.36 | 0.260 | 0.82 | 1.00 | 0.317 | No |
| 963 | 64.00 | 3.89 | 1.06 | 2.83 | 0.63 | 0.354 | 1.36 | 0.260 | 0.82 | 1.00 | 0.317 | No |
| 964 | 64.02 | 3.89 | 1.06 | 2.83 | 0.63 | 0.354 | 1.36 | 0.260 | 0.82 | 1.00 | 0.317 | No |
| 965 | 64.05 | 3.90 | 1.06 | 2.83 | 0.63 | 0.354 | 1.36 | 0.260 | 0.82 | 1.00 | 0.317 | No |
| 966 | 64.09 | 3.90 | 1.06 | 2.83 | 0.63 | 0.354 | 1.36 | 0.260 | 0.82 | 1.00 | 0.317 | No |
| 967 | 64.11 | 3.90 | 1.06 | 2.84 | 0.63 | 0.354 | 1.36 | 0.260 | 0.82 | 1.00 | 0.317 | No |
| 968 | 64.15 | 3.90 | 1.07 | 2.84 | 0.63 | 0.354 | 1.36 | 0.260 | 0.82 | 1.00 | 0.317 | No |
| 969 | 64.20 | 3.91 | 1.07 | 2.84 | 0.63 | 0.354 | 1.36 | 0.260 | 0.82 | 1.00 | 0.317 | No |
| 970 | 64.25 | 3.91 | 1.07 | 2.84 | 0.63 | 0.353 | 1.36 | 0.260 | 0.82 | 1.00 | 0.317 | No |
| 971 | 64.29 | 3.91 | 1.07 | 2.84 | 0.63 | 0.353 | 1.36 | 0.260 | 0.82 | 1.00 | 0.317 | No |
| 972 | 64.34 | 3.92 | 1.07 | 2.84 | 0.63 | 0.353 | 1.36 | 0.260 | 0.82 | 1.00 | 0.317 | No |
| 973 | 64.43 | 3.92 | 1.07 | 2.85 | 0.63 | 0.353 | 1.36 | 0.260 | 0.82 | 1.00 | 0.316 | No |
| 974 | 64.48 | 3.92 | 1.08 | 2.85 | 0.63 | 0.353 | 1.36 | 0.259 | 0.82 | 1.00 | 0.316 | No |
| 975 | 64.53 | 3.93 | 1.08 | 2.85 | 0.63 | 0.353 | 1.36 | 0.259 | 0.82 | 1.00 | 0.316 | No |
| 976 | 64.58 | 3.93 | 1.08 | 2.85 | 0.62 | 0.353 | 1.36 | 0.259 | 0.82 | 1.00 | 0.316 | No |
| 977 | 64.63 | 3.93 | 1.08 | 2.85 | 0.62 | 0.353 | 1.36 | 0.259 | 0.82 | 1.00 | 0.316 | No |
| 978 | 64.68 | 3.94 | 1.08 | 2.86 | 0.62 | 0.352 | 1.36 | 0.259 | 0.82 | 1.00 | 0.316 | No |
| 979 | 64.73 | 3.94 | 1.08 | 2.86 | 0.62 | 0.352 | 1.36 | 0.259 | 0.82 | 1.00 | 0.316 | No |
| 980 | 64.77 | 3.94 | 1.08 | 2.86 | 0.62 | 0.352 | 1.36 | 0.259 | 0.82 | 1.00 | 0.316 | No |
| 981 | 64.82 | 3.95 | 1.09 | 2.86 | 0.62 | 0.352 | 1.36 | 0.259 | 0.82 | 1.00 | 0.316 | No |
| 982 | 64.87 | 3.95 | 1.09 | 2.86 | 0.62 | 0.352 | 1.36 | 0.259 | 0.82 | 1.00 | 0.316 | No |
| 983 | 64.89 | 3.95 | 1.09 | 2.86 | 0.62 | 0.352 | 1.36 | 0.259 | 0.82 | 1.00 | 0.316 | No |
| 984 | 64.93 | 3.95 | 1.09 | 2.86 | 0.62 | 0.352 | 1.36 | 0.259 | 0.82 | 1.00 | 0.316 | No |
| 985 | 64.94 | 3.96 | 1.09 | 2.87 | 0.62 | 0.352 | 1.36 | 0.259 | 0.82 | 1.00 | 0.316 | No |
| 986 | 64.98 | 3.96 | 1.09 | 2.87 | 0.62 | 0.352 | 1.36 | 0.259 | 0.82 | 1.00 | 0.316 | No |
| 987 | 64.99 | 3.96 | 1.09 | 2.87 | 0.62 | 0.352 | 1.36 | 0.259 | 0.82 | 1.00 | 0.316 | No |
| 988 | 65.03 | 3.96 | 1.09 | 2.87 | 0.62 | 0.352 | 1.36 | 0.259 | 0.82 | 1.00 | 0.316 | No |
| 989 | 65.08 | 3.96 | 1.09 | 2.87 | 0.62 | 0.352 | 1.36 | 0.258 | 0.82 | 1.00 | 0.316 | No |
| 990 | 65.13 | 3.97 | 1.10 | 2.87 | 0.62 | 0.351 | 1.36 | 0.258 | 0.82 | 1.00 | 0.316 | No |
| 991 | 65.17 | 3.97 | 1.10 | 2.87 | 0.62 | 0.351 | 1.36 | 0.258 | 0.82 | 1.00 | 0.315 | No |
| 992 | 65.22 | 3.97 | 1.10 | 2.88 | 0.62 | 0.351 | 1.36 | 0.258 | 0.82 | 1.00 | 0.315 | No |
| 993 | 65.23 | 3.98 | 1.10 | 2.88 | 0.62 | 0.351 | 1.36 | 0.258 | 0.82 | 1.00 | 0.315 | No |
| 994 | 65.28 | 3.98 | 1.10 | 2.88 | 0.62 | 0.351 | 1.36 | 0.258 | 0.82 | 1.00 | 0.315 | No |
| 995 | 65.32 | 3.98 | 1.10 | 2.88 | 0.62 | 0.351 | 1.36 | 0.258 | 0.82 | 1.00 | 0.315 | No |
| 996 | 65.37 | 3.98 | 1.10 | 2.88 | 0.62 | 0.351 | 1.36 | 0.258 | 0.82 | 1.00 | 0.315 | No |
| 997 | 65.42 | 3.99 | 1.10 | 2.88 | 0.62 | 0.351 | 1.36 | 0.258 | 0.82 | 1.00 | 0.315 | No |
| 998 | 65.47 | 3.99 | 1.11 | 2.88 | 0.62 | 0.351 | 1.36 | 0.258 | 0.82 | 1.00 | 0.315 | No |
| 999 | 65.48 | 3.99 | 1.11 | 2.88 | 0.62 | 0.351 | 1.36 | 0.258 | 0.82 | 1.00 | 0.315 | No |
| 1000 | 65.49 | 3.99 | 1.11 | 2.89 | 0.62 | 0.351 | 1.36 | 0.258 | 0.82 | 1.00 | 0.315 | No |
| 1001 | 65.52 | 3.99 | 1.11 | 2.89 | 0.62 | 0.351 | 1.36 | 0.258 | 0.82 | 1.00 | 0.315 | No |
| 1002 | 65.57 | 4.00 | 1.11 | 2.89 | 0.62 | 0.350 | 1.36 | 0.258 | 0.82 | 1.00 | 0.315 | No |
| 1003 | 65.62 | 4.00 | 1.11 | 2.89 | 0.62 | 0.350 | 1.36 | 0.258 | 0.82 | 1.00 | 0.315 | No |
| 1004 | 65.67 | 4.00 | 1.11 | 2.89 | 0.62 | 0.350 | 1.36 | 0.258 | 0.82 | 1.00 | 0.315 | No |
| 1005 | 65.69 | 4.00 | 1.11 | 2.89 | 0.62 | 0.350 | 1.36 | 0.258 | 0.82 | 1.00 | 0.315 | No |
| 1006 | 65.72 | 4.01 | 1.11 | 2.89 | 0.62 | 0.350 | 1.36 | 0.258 | 0.82 | 1.00 | 0.315 | No |
| 1007 | 65.77 | 4.01 | 1.12 | 2.89 | 0.62 | 0.350 | 1.36 | 0.257 | 0.82 | 1.00 | 0.315 | No |
| 1008 | 65.82 | 4.01 | 1.12 | 2.89 | 0.62 | 0.350 | 1.36 | 0.257 | 0.82 | 1.00 | 0.315 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1009 | 65.86 | 4.01 | 1.12 | 2.89 | 0.62 | 0.350 | 1.36 | 0.257 | 0.82 | 1.00 | 0.315 | No |
| 1010 | 65.86 | 4.01 | 1.12 | 2.89 | 0.62 | 0.350 | 1.36 | 0.257 | 0.82 | 1.00 | 0.315 | No |
| 1011 | 65.91 | 4.01 | 1.12 | 2.89 | 0.62 | 0.350 | 1.36 | 0.257 | 0.82 | 1.00 | 0.315 | No |
| 1012 | 65.96 | 4.02 | 1.12 | 2.89 | 0.62 | 0.350 | 1.36 | 0.257 | 0.82 | 1.00 | 0.315 | No |

**Abbreviations**

Depth: Depth from free surface, at which CPT was performed (ft)
$\sigma_v$: Total overburden pressure at test point (tsf)
$u_0$: Water pressure at test point (tsf)
$\sigma_v'$: Effective overburden pressure based on GWT during earthquake (tsf)
$r_d$: Nonlinear shear mass factor
CSR: Cyclic Stress Ratio
MSF: Magnitude Scaling Factor
$CSR_{eq}$: CSR adjusted for M=7.5
$K_\sigma$: Effective overburden stress factor
$CSR^*$: CSR fully adjusted

**:: Cyclic Resistance Ratio (CRR) calculation data ::**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.01 | -0.03 | N/A | -11.45 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 2 | 0.04 | -0.03 | N/A | -18.30 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 3 | 0.08 | -0.07 | N/A | -13.93 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 4 | 0.10 | -0.03 | N/A | -40.02 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 5 | 0.13 | -0.03 | N/A | -55.83 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 6 | 0.18 | 0.00 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 7 | 0.22 | 0.00 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 8 | 0.27 | 0.81 | 4.01 | 9.28 | 1.00 | 1.28 | 50.14 | 63.98 | 4.000 | No | Yes | 2.00 |
| 9 | 0.33 | 2.77 | 3.31 | 3.21 | 1.00 | 4.42 | 15.47 | 68.30 | 4.000 | No | Yes | 2.00 |
| 10 | 0.36 | 5.16 | 2.95 | 1.83 | 1.00 | 8.26 | 7.99 | 66.07 | 4.000 | Yes | Yes | 2.00 |
| 11 | 0.37 | 7.12 | 2.76 | 1.34 | 0.84 | 11.41 | 5.40 | 61.61 | 4.000 | Yes | Yes | 2.00 |
| 12 | 0.38 | 8.20 | 2.69 | 1.21 | 0.81 | 13.14 | 4.58 | 60.15 | 4.000 | Yes | Yes | 2.00 |
| 13 | 0.42 | 9.38 | 2.63 | 1.15 | 0.80 | 15.03 | 3.98 | 59.88 | 4.000 | Yes | Yes | 2.00 |
| 14 | 0.44 | 10.59 | 2.58 | 1.15 | 0.78 | 16.98 | 3.58 | 60.79 | 4.000 | Yes | No | 2.00 |
| 15 | 0.47 | 12.18 | 2.52 | 1.09 | 0.76 | 19.53 | 3.09 | 60.26 | 4.000 | Yes | No | 2.00 |
| 16 | 0.47 | 14.24 | 2.44 | 1.01 | 0.74 | 22.83 | 2.61 | 59.51 | 4.000 | Yes | No | 2.00 |
| 17 | 0.52 | 17.00 | 2.35 | 0.91 | 0.71 | 27.27 | 2.14 | 58.39 | 4.000 | Yes | No | 2.00 |
| 18 | 0.56 | 20.48 | 2.26 | 0.82 | 0.69 | 32.85 | 1.78 | 58.60 | 4.000 | Yes | No | 2.00 |
| 19 | 0.58 | 24.93 | 2.16 | 0.72 | 0.66 | 40.00 | 1.52 | 60.77 | 4.000 | Yes | No | 2.00 |
| 20 | 0.61 | 30.70 | 2.05 | 0.62 | 0.62 | 49.27 | 1.35 | 66.61 | 4.000 | Yes | No | 2.00 |
| 21 | 0.66 | 36.94 | 1.95 | 0.54 | 0.59 | 59.30 | 1.27 | 75.22 | 4.000 | Yes | No | 2.00 |
| 22 | 0.76 | 40.79 | 1.89 | 0.50 | 0.58 | 65.47 | 1.23 | 80.72 | 4.000 | Yes | No | 2.00 |
| 23 | 0.80 | 38.66 | 1.93 | 0.54 | 0.59 | 62.05 | 1.25 | 77.85 | 4.000 | No | No | 2.00 |
| 24 | 0.81 | 35.49 | 1.98 | 0.58 | 0.60 | 56.95 | 1.29 | 73.41 | 4.000 | No | No | 2.00 |
| 25 | 0.85 | 32.42 | 2.03 | 0.63 | 0.62 | 52.02 | 1.33 | 69.37 | 4.000 | No | No | 2.00 |
| 26 | 0.86 | 32.79 | 2.03 | 0.63 | 0.62 | 52.62 | 1.33 | 69.99 | 4.000 | No | No | 2.00 |
| 27 | 0.90 | 32.22 | 2.05 | 0.69 | 0.62 | 51.69 | 1.35 | 70.01 | 4.000 | No | No | 2.00 |
| 28 | 0.95 | 31.82 | 2.07 | 0.73 | 0.63 | 51.04 | 1.38 | 70.34 | 4.000 | No | No | 2.00 |
| 29 | 1.00 | 30.53 | 2.06 | 0.67 | 0.63 | 48.97 | 1.37 | 67.09 | 4.000 | No | No | 2.00 |
| 30 | 1.05 | 28.88 | 2.04 | 0.54 | 0.62 | 46.31 | 1.34 | 62.22 | 4.000 | No | No | 2.00 |
| 31 | 1.14 | 26.55 | 2.01 | 0.38 | 0.61 | 42.56 | 1.00 | 42.56 | 4.000 | No | No | 2.00 |
| 32 | 1.24 | 24.29 | 2.04 | 0.37 | 0.62 | 38.92 | 1.00 | 38.92 | 4.000 | No | No | 2.00 |
| 33 | 1.31 | 20.51 | 2.14 | 0.44 | 0.65 | 32.85 | 1.00 | 32.85 | 4.000 | No | No | 2.00 |
| 34 | 1.36 | 17.93 | 2.22 | 0.53 | 0.67 | 28.70 | 1.67 | 48.03 | 4.000 | No | No | 2.00 |
| 35 | 1.37 | 17.77 | 2.23 | 0.55 | 0.68 | 28.44 | 1.71 | 48.50 | 4.000 | No | No | 2.00 |
| 36 | 1.39 | 18.54 | 2.21 | 0.53 | 0.67 | 29.68 | 1.64 | 48.64 | 4.000 | No | No | 2.00 |
| 37 | 1.43 | 19.03 | 2.19 | 0.52 | 0.67 | 30.46 | 1.60 | 48.73 | 4.000 | No | No | 2.00 |
| 38 | 1.44 | 18.05 | 2.23 | 0.54 | 0.68 | 28.88 | 1.68 | 48.54 | 4.000 | No | No | 2.00 |
| 39 | 1.49 | 18.35 | 2.22 | 0.55 | 0.67 | 29.36 | 1.67 | 49.05 | 4.000 | No | No | 2.00 |
| 40 | 1.53 | 18.89 | 2.22 | 0.58 | 0.67 | 30.23 | 1.66 | 50.30 | 4.000 | No | No | 2.00 |
| 41 | 1.58 | 19.67 | 2.22 | 0.62 | 0.67 | 31.47 | 1.66 | 52.29 | 4.000 | No | No | 2.00 |
| 42 | 1.63 | 20.62 | 2.22 | 0.68 | 0.67 | 32.99 | 1.66 | 54.77 | 4.000 | No | No | 2.00 |
| 43 | 1.68 | 21.70 | 2.21 | 0.74 | 0.67 | 34.72 | 1.65 | 57.36 | 4.000 | No | No | 2.00 |
| 44 | 1.72 | 23.31 | 2.20 | 0.77 | 0.67 | 37.31 | 1.61 | 60.04 | 4.000 | No | No | 2.00 |
| 45 | 1.77 | 25.48 | 2.17 | 0.79 | 0.66 | 40.78 | 1.54 | 62.93 | 4.000 | No | No | 2.00 |
| 46 | 1.82 | 28.31 | 2.13 | 0.78 | 0.65 | 45.33 | 1.46 | 66.36 | 4.000 | No | No | 2.00 |
| 47 | 1.86 | 31.52 | 2.08 | 0.77 | 0.63 | 50.48 | 1.40 | 70.45 | 4.000 | No | No | 2.00 |
| 48 | 1.92 | 35.09 | 2.03 | 0.73 | 0.62 | 56.22 | 1.34 | 75.14 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 49 | 1.97 | 38.67 | 1.98 | 0.69 | 0.60 | 61.96 | 1.29 | 80.21 | 4.000 | No | No | 2.00 |
| 50 | 2.01 | 41.61 | 1.95 | 0.68 | 0.59 | 66.68 | 1.27 | 84.88 | 4.000 | No | No | 2.00 |
| 51 | 2.09 | 43.22 | 1.94 | 0.68 | 0.59 | 69.27 | 1.26 | 87.55 | 4.000 | No | No | 2.00 |
| 52 | 2.16 | 43.05 | 1.95 | 0.70 | 0.59 | 68.99 | 1.27 | 87.53 | 4.000 | No | No | 2.00 |
| 53 | 2.20 | 41.47 | 1.96 | 0.71 | 0.60 | 66.43 | 1.28 | 85.02 | 4.000 | No | No | 2.00 |
| 54 | 2.25 | 39.85 | 1.98 | 0.71 | 0.60 | 63.83 | 1.29 | 82.39 | 4.000 | No | No | 2.00 |
| 55 | 2.31 | 38.60 | 1.99 | 0.69 | 0.60 | 61.82 | 1.30 | 80.09 | 4.000 | No | No | 2.00 |
| 56 | 2.37 | 37.79 | 1.98 | 0.66 | 0.60 | 60.52 | 1.29 | 78.32 | 4.000 | No | No | 2.00 |
| 57 | 2.40 | 36.88 | 1.99 | 0.64 | 0.60 | 59.05 | 1.30 | 76.51 | 4.000 | No | No | 2.00 |
| 58 | 2.46 | 35.97 | 1.98 | 0.61 | 0.60 | 57.57 | 1.29 | 74.55 | 4.000 | No | No | 2.00 |
| 59 | 2.54 | 35.36 | 1.97 | 0.57 | 0.60 | 56.59 | 1.29 | 72.87 | 4.000 | No | No | 2.00 |
| 60 | 2.59 | 34.69 | 1.96 | 0.50 | 0.59 | 55.51 | 1.00 | 55.51 | 4.000 | No | No | 2.00 |
| 61 | 2.69 | 34.25 | 1.94 | 0.45 | 0.59 | 54.80 | 1.00 | 54.80 | 4.000 | No | No | 2.00 |
| 62 | 2.74 | 33.95 | 1.92 | 0.40 | 0.58 | 54.31 | 1.00 | 54.31 | 4.000 | No | No | 2.00 |
| 63 | 2.83 | 33.88 | 1.92 | 0.39 | 0.58 | 54.19 | 1.00 | 54.19 | 4.000 | No | No | 2.00 |
| 64 | 2.88 | 34.35 | 1.91 | 0.38 | 0.58 | 54.94 | 1.00 | 54.94 | 4.000 | No | No | 2.00 |
| 65 | 2.98 | 35.70 | 1.89 | 0.37 | 0.57 | 57.10 | 1.00 | 57.10 | 4.000 | No | No | 2.00 |
| 66 | 3.03 | 38.57 | 1.85 | 0.36 | 0.56 | 61.71 | 1.00 | 61.71 | 4.000 | No | No | 2.00 |
| 67 | 3.12 | 42.31 | 1.82 | 0.38 | 0.55 | 67.72 | 1.00 | 67.72 | 4.000 | No | No | 2.00 |
| 68 | 3.21 | 46.83 | 1.79 | 0.40 | 0.55 | 74.97 | 1.00 | 74.97 | 4.000 | No | No | 2.00 |
| 69 | 3.27 | 51.66 | 1.76 | 0.41 | 0.54 | 82.72 | 1.00 | 82.72 | 4.000 | No | No | 2.00 |
| 70 | 3.34 | 57.05 | 1.72 | 0.40 | 0.52 | 91.38 | 1.00 | 91.38 | 4.000 | No | No | 2.00 |
| 71 | 3.41 | 61.91 | 1.69 | 0.40 | 0.51 | 99.18 | 1.00 | 99.18 | 4.000 | No | No | 2.00 |
| 72 | 3.51 | 64.20 | 1.68 | 0.41 | 0.51 | 102.85 | 1.00 | 102.85 | 4.000 | No | No | 2.00 |
| 73 | 3.55 | 63.63 | 1.70 | 0.44 | 0.52 | 101.93 | 1.00 | 101.93 | 4.000 | No | No | 2.00 |
| 74 | 3.65 | 62.42 | 1.72 | 0.46 | 0.52 | 99.97 | 1.00 | 99.97 | 4.000 | No | No | 2.00 |
| 75 | 3.75 | 61.71 | 1.73 | 0.47 | 0.53 | 98.83 | 1.00 | 98.83 | 4.000 | No | No | 2.00 |
| 76 | 3.83 | 61.44 | 1.73 | 0.47 | 0.53 | 98.39 | 1.00 | 98.39 | 4.000 | No | No | 2.00 |
| 77 | 3.94 | 61.11 | 1.73 | 0.47 | 0.53 | 97.84 | 1.00 | 97.84 | 4.000 | No | No | 2.00 |
| 78 | 4.04 | 60.30 | 1.73 | 0.47 | 0.53 | 96.53 | 1.00 | 96.53 | 4.000 | No | No | 2.00 |
| 79 | 4.13 | 60.63 | 1.75 | 0.50 | 0.53 | 97.06 | 1.08 | 104.72 | 4.000 | No | No | 2.00 |
| 80 | 4.24 | 61.68 | 1.74 | 0.50 | 0.53 | 98.73 | 1.00 | 98.73 | 4.000 | No | No | 2.00 |
| 81 | 4.38 | 65.15 | 1.68 | 0.42 | 0.51 | 104.30 | 1.00 | 104.30 | 4.000 | No | No | 2.00 |
| 82 | 4.50 | 68.93 | 1.62 | 0.35 | 0.50 | 110.36 | 1.00 | 110.36 | 4.000 | No | No | 2.00 |
| 83 | 4.62 | 74.13 | 1.57 | 0.32 | 0.50 | 118.70 | 1.00 | 118.70 | 4.000 | No | No | 2.00 |
| 84 | 4.71 | 77.89 | 1.57 | 0.35 | 0.50 | 124.73 | 1.00 | 124.73 | 4.000 | No | No | 2.00 |
| 85 | 4.75 | 80.93 | 1.57 | 0.37 | 0.50 | 129.61 | 1.00 | 129.61 | 4.000 | No | No | 2.00 |
| 86 | 4.84 | 82.11 | 1.58 | 0.39 | 0.50 | 131.50 | 1.00 | 131.50 | 4.000 | No | No | 2.00 |
| 87 | 4.89 | 82.93 | 1.58 | 0.40 | 0.50 | 132.82 | 1.00 | 132.82 | 4.000 | No | No | 2.00 |
| 88 | 4.94 | 82.93 | 1.58 | 0.40 | 0.50 | 132.82 | 1.00 | 132.82 | 4.000 | No | No | 2.00 |
| 89 | 4.98 | 81.72 | 1.59 | 0.41 | 0.50 | 130.87 | 1.00 | 130.87 | 4.000 | No | No | 2.00 |
| 90 | 5.07 | 80.10 | 1.60 | 0.41 | 0.50 | 128.25 | 1.00 | 128.25 | 4.000 | No | No | 2.00 |
| 91 | 5.13 | 78.48 | 1.61 | 0.42 | 0.50 | 125.65 | 1.00 | 125.65 | 4.000 | No | No | 2.00 |
| 92 | 5.17 | 76.79 | 1.61 | 0.41 | 0.50 | 122.93 | 1.00 | 122.93 | 4.000 | No | No | 2.00 |
| 93 | 5.27 | 74.77 | 1.62 | 0.41 | 0.50 | 119.67 | 1.00 | 119.67 | 4.000 | No | No | 2.00 |
| 94 | 5.32 | 72.75 | 1.63 | 0.40 | 0.50 | 116.42 | 1.00 | 116.42 | 4.000 | No | No | 2.00 |
| 95 | 5.42 | 70.86 | 1.64 | 0.40 | 0.50 | 113.37 | 1.00 | 113.37 | 4.000 | No | No | 2.00 |
| 96 | 5.46 | 69.34 | 1.64 | 0.39 | 0.50 | 110.93 | 1.00 | 110.93 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97 | 5.56 | 68.02 | 1.65 | 0.39 | 0.50 | 108.80 | 1.00 | 108.80 | 4.000 | No | No | 2.00 |
| 98 | 5.61 | 66.87 | 1.66 | 0.39 | 0.50 | 106.96 | 1.00 | 106.96 | 4.000 | No | No | 2.00 |
| 99 | 5.71 | 65.86 | 1.66 | 0.40 | 0.51 | 105.32 | 1.00 | 105.32 | 4.000 | No | No | 2.00 |
| 100 | 5.78 | 64.92 | 1.67 | 0.40 | 0.51 | 103.80 | 1.00 | 103.80 | 4.000 | No | No | 2.00 |
| 101 | 5.85 | 63.84 | 1.68 | 0.41 | 0.51 | 102.06 | 1.00 | 102.06 | 4.000 | No | No | 2.00 |
| 102 | 5.95 | 62.83 | 1.69 | 0.42 | 0.52 | 100.42 | 1.00 | 100.42 | 4.000 | No | No | 2.00 |
| 103 | 6.00 | 62.32 | 1.71 | 0.44 | 0.52 | 99.61 | 1.00 | 99.61 | 4.000 | No | No | 2.00 |
| 104 | 6.09 | 62.93 | 1.66 | 0.36 | 0.51 | 100.57 | 1.00 | 100.57 | 4.000 | No | No | 2.00 |
| 105 | 6.14 | 64.75 | 1.60 | 0.29 | 0.50 | 103.50 | 1.00 | 103.50 | 4.000 | No | No | 2.00 |
| 106 | 6.24 | 67.52 | 1.53 | 0.21 | 0.50 | 107.94 | 1.00 | 107.94 | 4.000 | No | No | 2.00 |
| 107 | 6.30 | 70.42 | 1.54 | 0.24 | 0.50 | 112.60 | 1.00 | 112.60 | 4.000 | No | No | 2.00 |
| 108 | 6.38 | 71.40 | 1.56 | 0.28 | 0.50 | 114.16 | 1.00 | 114.16 | 4.000 | No | No | 2.00 |
| 109 | 6.46 | 69.58 | 1.60 | 0.32 | 0.50 | 111.22 | 1.00 | 111.22 | 4.000 | No | No | 2.00 |
| 110 | 6.50 | 68.43 | 1.62 | 0.35 | 0.50 | 109.38 | 1.00 | 109.38 | 4.000 | No | No | 2.00 |
| 111 | 6.56 | 68.84 | 1.63 | 0.36 | 0.50 | 110.02 | 1.00 | 110.02 | 4.000 | No | No | 2.00 |
| 112 | 6.63 | 71.30 | 1.61 | 0.36 | 0.50 | 113.98 | 1.00 | 113.98 | 4.000 | No | No | 2.00 |
| 113 | 6.68 | 72.51 | 1.61 | 0.37 | 0.50 | 115.92 | 1.00 | 115.92 | 4.000 | No | No | 2.00 |
| 114 | 6.76 | 73.49 | 1.61 | 0.37 | 0.50 | 117.34 | 1.00 | 117.34 | 4.000 | No | No | 2.00 |
| 115 | 6.82 | 74.54 | 1.60 | 0.37 | 0.50 | 118.51 | 1.00 | 118.51 | 4.000 | No | No | 2.00 |
| 116 | 6.88 | 76.19 | 1.59 | 0.36 | 0.50 | 120.59 | 1.00 | 120.59 | 4.000 | No | No | 2.00 |
| 117 | 6.96 | 78.38 | 1.58 | 0.35 | 0.50 | 123.33 | 1.00 | 123.33 | 4.000 | No | No | 2.00 |
| 118 | 7.03 | 80.54 | 1.56 | 0.34 | 0.50 | 126.09 | 1.00 | 126.09 | 4.000 | No | No | 2.00 |
| 119 | 7.11 | 82.06 | 1.55 | 0.34 | 0.50 | 127.75 | 1.00 | 127.75 | 4.000 | No | No | 2.00 |
| 120 | 7.16 | 83.04 | 1.55 | 0.34 | 0.50 | 128.83 | 1.00 | 128.83 | 4.000 | No | No | 2.00 |
| 121 | 7.26 | 83.82 | 1.55 | 0.34 | 0.50 | 129.11 | 1.00 | 129.11 | 4.000 | No | No | 2.00 |
| 122 | 7.31 | 84.43 | 1.56 | 0.35 | 0.50 | 129.55 | 1.00 | 129.55 | 4.000 | No | No | 2.00 |
| 123 | 7.40 | 84.63 | 1.56 | 0.35 | 0.50 | 129.06 | 1.00 | 129.06 | 4.000 | No | No | 2.00 |
| 124 | 7.45 | 84.52 | 1.56 | 0.35 | 0.50 | 128.43 | 1.00 | 128.43 | 4.000 | No | No | 2.00 |
| 125 | 7.54 | 83.95 | 1.57 | 0.35 | 0.50 | 126.75 | 1.00 | 126.75 | 4.000 | No | No | 2.00 |
| 126 | 7.60 | 82.84 | 1.58 | 0.36 | 0.50 | 124.58 | 1.00 | 124.58 | 4.000 | No | No | 2.00 |
| 127 | 7.68 | 81.22 | 1.59 | 0.36 | 0.50 | 121.42 | 1.00 | 121.42 | 4.000 | No | No | 2.00 |
| 128 | 7.74 | 79.70 | 1.60 | 0.36 | 0.50 | 118.70 | 1.00 | 118.70 | 4.000 | No | No | 2.00 |
| 129 | 7.83 | 78.55 | 1.61 | 0.37 | 0.50 | 116.27 | 1.00 | 116.27 | 4.000 | No | No | 2.00 |
| 130 | 7.90 | 78.35 | 1.61 | 0.37 | 0.50 | 115.47 | 1.00 | 115.47 | 4.000 | No | No | 2.00 |
| 131 | 7.98 | 79.10 | 1.62 | 0.38 | 0.50 | 115.95 | 1.00 | 115.95 | 4.000 | No | No | 2.00 |
| 132 | 8.05 | 80.62 | 1.62 | 0.39 | 0.50 | 117.66 | 1.00 | 117.66 | 4.000 | No | No | 2.00 |
| 133 | 8.12 | 81.69 | 1.62 | 0.40 | 0.50 | 118.66 | 1.00 | 118.66 | 4.000 | No | No | 2.00 |
| 134 | 8.19 | 81.66 | 1.62 | 0.41 | 0.50 | 118.08 | 1.00 | 118.08 | 4.000 | No | No | 2.00 |
| 135 | 8.27 | 80.48 | 1.64 | 0.42 | 0.50 | 115.81 | 1.00 | 115.81 | 4.000 | No | No | 2.00 |
| 136 | 8.36 | 79.13 | 1.65 | 0.42 | 0.50 | 113.39 | 1.00 | 113.39 | 4.000 | No | No | 2.00 |
| 137 | 8.41 | 78.35 | 1.61 | 0.34 | 0.50 | 111.75 | 1.00 | 111.75 | 4.000 | No | No | 2.00 |
| 138 | 8.50 | 78.42 | 1.57 | 0.27 | 0.50 | 111.21 | 1.00 | 111.21 | 4.000 | No | No | 2.00 |
| 139 | 8.60 | 78.79 | 1.54 | 0.23 | 0.50 | 111.10 | 1.00 | 111.10 | 4.000 | No | No | 2.00 |
| 140 | 8.70 | 78.76 | 1.56 | 0.26 | 0.50 | 110.43 | 1.00 | 110.43 | 4.000 | No | No | 2.00 |
| 141 | 8.74 | 70.97 | 1.64 | 0.31 | 0.50 | 99.16 | 1.00 | 99.16 | 4.000 | No | No | 2.00 |
| 142 | 8.78 | 65.57 | 1.68 | 0.35 | 0.51 | 92.36 | 1.00 | 92.36 | 4.000 | No | No | 2.00 |
| 143 | 8.81 | 63.58 | 1.71 | 0.37 | 0.52 | 89.84 | 1.00 | 89.84 | 4.000 | No | No | 2.00 |
| 144 | 8.86 | 69.75 | 1.66 | 0.34 | 0.51 | 97.38 | 1.00 | 97.38 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 145 | 8.91 | 73.77 | 1.64 | 0.34 | 0.50 | 102.14 | 1.00 | 102.14 | 4.000 | No | No | 2.00 |
| 146 | 8.94 | 74.34 | 1.64 | 0.35 | 0.50 | 102.81 | 1.00 | 102.81 | 4.000 | No | No | 2.00 |
| 147 | 9.02 | 73.80 | 1.66 | 0.36 | 0.51 | 101.95 | 1.00 | 101.95 | 4.000 | No | No | 2.00 |
| 148 | 9.10 | 72.52 | 1.68 | 0.39 | 0.51 | 100.12 | 1.00 | 100.12 | 4.000 | No | No | 2.00 |
| 149 | 9.17 | 71.17 | 1.69 | 0.40 | 0.52 | 98.18 | 1.00 | 98.18 | 4.000 | No | No | 2.00 |
| 150 | 9.22 | 69.95 | 1.70 | 0.41 | 0.52 | 96.47 | 1.00 | 96.47 | 4.000 | No | No | 2.00 |
| 151 | 9.31 | 69.01 | 1.71 | 0.42 | 0.52 | 94.84 | 1.00 | 94.84 | 4.000 | No | No | 2.00 |
| 152 | 9.37 | 68.50 | 1.72 | 0.42 | 0.52 | 93.92 | 1.00 | 93.92 | 4.000 | No | No | 2.00 |
| 153 | 9.42 | 68.60 | 1.72 | 0.42 | 0.52 | 93.81 | 1.00 | 93.81 | 4.000 | No | No | 2.00 |
| 154 | 9.52 | 69.18 | 1.72 | 0.41 | 0.52 | 94.01 | 1.00 | 94.01 | 4.000 | No | No | 2.00 |
| 155 | 9.60 | 70.19 | 1.71 | 0.41 | 0.52 | 94.84 | 1.00 | 94.84 | 4.000 | No | No | 2.00 |
| 156 | 9.66 | 71.54 | 1.70 | 0.41 | 0.52 | 96.20 | 1.00 | 96.20 | 4.000 | No | No | 2.00 |
| 157 | 9.74 | 73.13 | 1.69 | 0.40 | 0.52 | 97.75 | 1.00 | 97.75 | 4.000 | No | No | 2.00 |
| 158 | 9.81 | 74.58 | 1.69 | 0.40 | 0.51 | 99.20 | 1.00 | 99.20 | 4.000 | No | No | 2.00 |
| 159 | 9.89 | 75.79 | 1.68 | 0.40 | 0.51 | 100.34 | 1.00 | 100.34 | 4.000 | No | No | 2.00 |
| 160 | 9.98 | 77.04 | 1.68 | 0.41 | 0.51 | 101.50 | 1.00 | 101.50 | 4.000 | No | No | 2.00 |
| 161 | 10.03 | 78.79 | 1.68 | 0.42 | 0.51 | 103.47 | 1.00 | 103.47 | 4.000 | No | No | 2.00 |
| 162 | 10.13 | 81.26 | 1.67 | 0.42 | 0.51 | 106.04 | 1.00 | 106.04 | 4.000 | No | No | 2.00 |
| 163 | 10.23 | 84.06 | 1.66 | 0.42 | 0.51 | 108.97 | 1.00 | 108.97 | 4.000 | No | No | 2.00 |
| 164 | 10.32 | 86.45 | 1.65 | 0.42 | 0.50 | 111.33 | 1.00 | 111.33 | 4.000 | No | No | 2.00 |
| 165 | 10.38 | 88.11 | 1.65 | 0.42 | 0.50 | 112.97 | 1.00 | 112.97 | 4.000 | No | No | 2.00 |
| 166 | 10.47 | 88.68 | 1.65 | 0.41 | 0.50 | 113.17 | 1.00 | 113.17 | 4.000 | No | No | 2.00 |
| 167 | 10.57 | 88.44 | 1.65 | 0.41 | 0.50 | 112.36 | 1.00 | 112.36 | 4.000 | No | No | 2.00 |
| 168 | 10.66 | 87.94 | 1.61 | 0.34 | 0.50 | 111.05 | 1.00 | 111.05 | 4.000 | No | No | 2.00 |
| 169 | 10.76 | 87.67 | 1.57 | 0.27 | 0.50 | 110.18 | 1.00 | 110.18 | 4.000 | No | No | 2.00 |
| 170 | 10.85 | 88.00 | 1.53 | 0.22 | 0.50 | 110.11 | 1.00 | 110.11 | 4.000 | No | No | 2.00 |
| 171 | 10.92 | 88.54 | 1.55 | 0.24 | 0.50 | 110.44 | 1.00 | 110.44 | 4.000 | No | No | 2.00 |
| 172 | 11.00 | 85.17 | 1.58 | 0.27 | 0.50 | 105.80 | 1.00 | 105.80 | 4.000 | No | No | 2.00 |
| 173 | 11.07 | 82.17 | 1.61 | 0.29 | 0.50 | 101.74 | 1.00 | 101.74 | 4.000 | No | No | 2.00 |
| 174 | 11.10 | 80.21 | 1.63 | 0.30 | 0.50 | 99.18 | 1.00 | 99.18 | 4.000 | No | No | 2.00 |
| 175 | 11.15 | 82.81 | 1.62 | 0.30 | 0.50 | 102.16 | 1.00 | 102.16 | 4.000 | No | No | 2.00 |
| 176 | 11.19 | 85.41 | 1.61 | 0.31 | 0.50 | 105.18 | 1.00 | 105.18 | 4.000 | No | No | 2.00 |
| 177 | 11.24 | 87.43 | 1.61 | 0.32 | 0.50 | 107.45 | 1.00 | 107.45 | 4.000 | No | No | 2.00 |
| 178 | 11.29 | 89.66 | 1.61 | 0.33 | 0.50 | 109.95 | 1.00 | 109.95 | 4.000 | No | No | 2.00 |
| 179 | 11.34 | 92.29 | 1.60 | 0.34 | 0.50 | 112.96 | 1.00 | 112.96 | 4.000 | No | No | 2.00 |
| 180 | 11.40 | 94.89 | 1.60 | 0.35 | 0.50 | 115.81 | 1.00 | 115.81 | 4.000 | No | No | 2.00 |
| 181 | 11.47 | 96.81 | 1.60 | 0.36 | 0.50 | 117.83 | 1.00 | 117.83 | 4.000 | No | No | 2.00 |
| 182 | 11.53 | 97.72 | 1.60 | 0.37 | 0.50 | 118.60 | 1.00 | 118.60 | 4.000 | No | No | 2.00 |
| 183 | 11.58 | 98.23 | 1.60 | 0.37 | 0.50 | 118.97 | 1.00 | 118.97 | 4.000 | No | No | 2.00 |
| 184 | 11.65 | 98.70 | 1.61 | 0.38 | 0.50 | 119.16 | 1.00 | 119.16 | 4.000 | No | No | 2.00 |
| 185 | 11.72 | 99.17 | 1.61 | 0.38 | 0.50 | 119.34 | 1.00 | 119.34 | 4.000 | No | No | 2.00 |
| 186 | 11.77 | 99.00 | 1.61 | 0.39 | 0.50 | 118.88 | 1.00 | 118.88 | 4.000 | No | No | 2.00 |
| 187 | 11.82 | 98.36 | 1.62 | 0.39 | 0.50 | 117.83 | 1.00 | 117.83 | 4.000 | No | No | 2.00 |
| 188 | 11.88 | 97.25 | 1.64 | 0.42 | 0.50 | 116.19 | 1.00 | 116.19 | 4.000 | No | No | 2.00 |
| 189 | 11.97 | 96.10 | 1.65 | 0.43 | 0.50 | 114.49 | 1.00 | 114.49 | 4.000 | No | No | 2.00 |
| 190 | 12.02 | 94.75 | 1.65 | 0.43 | 0.50 | 112.75 | 1.00 | 112.75 | 4.000 | No | No | 2.00 |
| 191 | 12.06 | 93.54 | 1.65 | 0.40 | 0.50 | 110.95 | 1.00 | 110.95 | 4.000 | No | No | 2.00 |
| 192 | 12.11 | 93.03 | 1.65 | 0.40 | 0.50 | 110.11 | 1.00 | 110.11 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 193 | 12.21 | 92.63 | 1.65 | 0.39 | 0.50 | 109.15 | 1.00 | 109.15 | 4.000 | No | No | 2.00 |
| 194 | 12.25 | 92.93 | 1.64 | 0.38 | 0.50 | 109.21 | 1.00 | 109.21 | 4.000 | No | No | 2.00 |
| 195 | 12.30 | 93.00 | 1.64 | 0.38 | 0.50 | 109.05 | 1.00 | 109.05 | 4.000 | No | No | 2.00 |
| 196 | 12.31 | 93.44 | 1.63 | 0.37 | 0.50 | 109.51 | 1.00 | 109.51 | 4.000 | No | No | 2.00 |
| 197 | 12.32 | 93.64 | 1.63 | 0.37 | 0.50 | 109.72 | 1.00 | 109.72 | 4.000 | No | No | 2.00 |
| 198 | 12.35 | 94.21 | 1.62 | 0.36 | 0.50 | 110.25 | 1.00 | 110.25 | 4.000 | No | No | 2.00 |
| 199 | 12.40 | 95.26 | 1.61 | 0.35 | 0.50 | 111.26 | 1.00 | 111.26 | 4.000 | No | No | 2.00 |
| 200 | 12.45 | 96.78 | 1.60 | 0.33 | 0.50 | 112.82 | 1.00 | 112.82 | 4.000 | No | No | 2.00 |
| 201 | 12.52 | 98.43 | 1.60 | 0.33 | 0.50 | 114.40 | 1.00 | 114.40 | 4.000 | No | No | 2.00 |
| 202 | 12.56 | 100.32 | 1.59 | 0.34 | 0.50 | 116.43 | 1.00 | 116.43 | 4.000 | No | No | 2.00 |
| 203 | 12.62 | 102.04 | 1.59 | 0.35 | 0.50 | 118.16 | 1.00 | 118.16 | 4.000 | No | No | 2.00 |
| 204 | 12.65 | 103.69 | 1.56 | 0.31 | 0.50 | 119.90 | 1.00 | 119.90 | 4.000 | No | No | 2.00 |
| 205 | 12.71 | 105.14 | 1.53 | 0.26 | 0.50 | 121.32 | 1.00 | 121.32 | 4.000 | No | No | 2.00 |
| 206 | 12.76 | 107.34 | 1.48 | 0.22 | 0.50 | 123.61 | 1.00 | 123.61 | 4.000 | No | No | 2.00 |
| 207 | 12.83 | 110.34 | 1.48 | 0.23 | 0.50 | 126.74 | 1.00 | 126.74 | 4.000 | No | No | 2.00 |
| 208 | 12.88 | 114.29 | 1.50 | 0.26 | 0.50 | 131.03 | 1.00 | 131.03 | 4.000 | No | No | 2.00 |
| 209 | 12.93 | 118.94 | 1.50 | 0.30 | 0.50 | 136.14 | 1.00 | 136.14 | 4.000 | No | No | 2.00 |
| 210 | 12.98 | 121.44 | 1.52 | 0.33 | 0.50 | 138.73 | 1.00 | 138.73 | 4.000 | No | No | 2.00 |
| 211 | 13.03 | 123.77 | 1.52 | 0.33 | 0.50 | 141.10 | 1.00 | 141.10 | 4.000 | No | No | 2.00 |
| 212 | 13.04 | 120.16 | 1.54 | 0.36 | 0.50 | 136.93 | 1.00 | 136.93 | 4.000 | No | No | 2.00 |
| 213 | 13.07 | 122.72 | 1.54 | 0.38 | 0.50 | 139.66 | 1.00 | 139.66 | 4.000 | No | No | 2.00 |
| 214 | 13.13 | 125.66 | 1.55 | 0.40 | 0.50 | 142.70 | 1.00 | 142.70 | 4.000 | No | No | 2.00 |
| 215 | 13.17 | 134.36 | 1.53 | 0.40 | 0.50 | 152.37 | 1.00 | 152.37 | 4.000 | No | No | 2.00 |
| 216 | 13.22 | 137.87 | 1.53 | 0.42 | 0.50 | 156.08 | 1.00 | 156.08 | 4.000 | No | No | 2.00 |
| 217 | 13.27 | 140.13 | 1.54 | 0.44 | 0.50 | 158.31 | 1.00 | 158.31 | 4.000 | No | No | 2.00 |
| 218 | 13.32 | 141.11 | 1.54 | 0.46 | 0.50 | 159.12 | 1.00 | 159.12 | 4.000 | No | No | 2.00 |
| 219 | 13.37 | 141.28 | 1.55 | 0.47 | 0.50 | 159.00 | 1.00 | 159.00 | 4.000 | No | No | 2.00 |
| 220 | 13.41 | 140.67 | 1.55 | 0.47 | 0.50 | 158.02 | 1.00 | 158.02 | 4.000 | No | No | 2.00 |
| 221 | 13.46 | 139.05 | 1.56 | 0.48 | 0.50 | 155.85 | 1.00 | 155.85 | 4.000 | No | No | 2.00 |
| 222 | 13.51 | 137.63 | 1.57 | 0.48 | 0.50 | 153.98 | 1.00 | 153.98 | 4.000 | No | No | 2.00 |
| 223 | 13.56 | 135.98 | 1.58 | 0.49 | 0.50 | 151.81 | 1.00 | 151.81 | 4.000 | No | No | 2.00 |
| 224 | 13.60 | 134.29 | 1.59 | 0.51 | 0.50 | 149.65 | 1.00 | 149.65 | 4.000 | No | No | 2.00 |
| 225 | 13.66 | 132.81 | 1.60 | 0.52 | 0.50 | 147.65 | 1.00 | 147.65 | 4.000 | No | No | 2.00 |
| 226 | 13.75 | 131.80 | 1.60 | 0.51 | 0.50 | 145.98 | 1.00 | 145.98 | 4.000 | No | No | 2.00 |
| 227 | 13.80 | 131.19 | 1.60 | 0.51 | 0.50 | 145.02 | 1.00 | 145.02 | 4.000 | No | No | 2.00 |
| 228 | 13.89 | 130.75 | 1.61 | 0.51 | 0.50 | 144.01 | 1.00 | 144.01 | 4.000 | No | No | 2.00 |
| 229 | 13.94 | 129.81 | 1.61 | 0.52 | 0.50 | 142.69 | 1.00 | 142.69 | 4.000 | No | No | 2.00 |
| 230 | 13.99 | 128.19 | 1.63 | 0.54 | 0.50 | 140.62 | 1.00 | 140.62 | 4.000 | No | No | 2.00 |
| 231 | 14.09 | 125.39 | 1.65 | 0.57 | 0.50 | 137.21 | 1.00 | 137.21 | 4.000 | No | No | 2.00 |
| 232 | 14.14 | 122.28 | 1.68 | 0.61 | 0.51 | 133.79 | 1.00 | 133.79 | 4.000 | No | No | 2.00 |
| 233 | 14.23 | 119.38 | 1.70 | 0.64 | 0.52 | 130.35 | 1.00 | 130.35 | 4.000 | No | No | 2.00 |
| 234 | 14.28 | 117.19 | 1.68 | 0.58 | 0.51 | 127.54 | 1.00 | 127.54 | 4.000 | No | No | 2.00 |
| 235 | 14.38 | 116.43 | 1.66 | 0.51 | 0.50 | 125.95 | 1.00 | 125.95 | 4.000 | No | No | 2.00 |
| 236 | 14.42 | 115.35 | 1.63 | 0.45 | 0.50 | 124.40 | 1.00 | 124.40 | 4.000 | No | No | 2.00 |
| 237 | 14.52 | 115.79 | 1.63 | 0.45 | 0.50 | 124.40 | 1.00 | 124.40 | 4.000 | No | No | 2.00 |
| 238 | 14.57 | 116.75 | 1.64 | 0.47 | 0.50 | 125.23 | 1.00 | 125.23 | 4.000 | No | No | 2.00 |
| 239 | 14.67 | 117.53 | 1.64 | 0.48 | 0.50 | 125.60 | 1.00 | 125.60 | 4.000 | No | No | 2.00 |
| 240 | 14.68 | 117.83 | 1.64 | 0.49 | 0.50 | 125.93 | 1.00 | 125.93 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 241 | 14.70 | 116.41 | 1.65 | 0.50 | 0.50 | 124.39 | 1.00 | 124.39 | 4.000 | No | No | 2.00 |
| 242 | 14.75 | 116.58 | 1.66 | 0.50 | 0.50 | 124.38 | 1.00 | 124.38 | 4.000 | No | No | 2.00 |
| 243 | 14.80 | 116.18 | 1.66 | 0.51 | 0.51 | 123.80 | 1.00 | 123.80 | 4.000 | No | No | 2.00 |
| 244 | 14.89 | 116.21 | 1.67 | 0.52 | 0.51 | 123.45 | 1.00 | 123.45 | 4.000 | No | No | 2.00 |
| 245 | 14.94 | 114.76 | 1.68 | 0.53 | 0.51 | 121.75 | 1.00 | 121.75 | 4.000 | No | No | 2.00 |
| 246 | 15.04 | 111.83 | 1.69 | 0.54 | 0.52 | 118.29 | 1.00 | 118.29 | 4.000 | No | No | 2.00 |
| 247 | 15.13 | 107.24 | 1.71 | 0.55 | 0.52 | 113.18 | 1.01 | 114.51 | 4.000 | No | No | 2.00 |
| 248 | 15.21 | 101.74 | 1.74 | 0.56 | 0.53 | 107.19 | 1.06 | 113.68 | 4.000 | No | No | 2.00 |
| 249 | 15.28 | 95.87 | 1.76 | 0.57 | 0.54 | 100.87 | 1.10 | 111.36 | 4.000 | No | No | 2.00 |
| 250 | 15.38 | 90.00 | 1.79 | 0.58 | 0.54 | 94.46 | 1.14 | 107.63 | 4.000 | No | No | 2.00 |
| 251 | 15.47 | 83.86 | 1.82 | 0.58 | 0.55 | 87.79 | 1.17 | 102.77 | 4.000 | No | No | 2.00 |
| 252 | 15.57 | 77.55 | 1.85 | 0.59 | 0.56 | 80.97 | 1.20 | 97.12 | 4.000 | No | No | 2.00 |
| 253 | 15.67 | 70.76 | 1.89 | 0.60 | 0.57 | 73.71 | 1.23 | 90.52 | 4.000 | No | No | 2.00 |
| 254 | 15.77 | 63.91 | 1.93 | 0.61 | 0.59 | 66.40 | 1.26 | 83.47 | 4.000 | No | No | 2.00 |
| 255 | 15.86 | 57.27 | 1.98 | 0.63 | 0.60 | 59.33 | 1.29 | 76.63 | 4.000 | No | No | 2.00 |
| 256 | 15.96 | 51.73 | 2.03 | 0.67 | 0.62 | 53.45 | 1.34 | 71.45 | 4.000 | No | No | 2.00 |
| 257 | 16.05 | 47.31 | 2.09 | 0.73 | 0.63 | 48.75 | 1.40 | 68.25 | 4.000 | No | No | 2.00 |
| 258 | 16.15 | 43.60 | 2.15 | 0.86 | 0.65 | 44.83 | 1.51 | 67.79 | 4.000 | No | No | 2.00 |
| 259 | 16.25 | 41.11 | 2.20 | 0.97 | 0.67 | 42.13 | 1.63 | 68.47 | 4.000 | No | No | 2.00 |
| 260 | 16.31 | 39.86 | 2.23 | 1.04 | 0.68 | 40.76 | 1.71 | 69.57 | 4.000 | No | No | 2.00 |
| 261 | 16.39 | 39.72 | 2.23 | 1.02 | 0.68 | 40.48 | 1.70 | 68.78 | 4.000 | No | No | 2.00 |
| 262 | 16.48 | 40.50 | 2.21 | 0.96 | 0.67 | 41.08 | 1.65 | 67.59 | 4.000 | No | No | 2.00 |
| 263 | 16.59 | 43.06 | 2.17 | 0.86 | 0.66 | 43.47 | 1.53 | 66.70 | 4.000 | No | No | 2.00 |
| 264 | 16.68 | 47.95 | 2.09 | 0.73 | 0.64 | 48.20 | 1.40 | 67.68 | 4.000 | No | No | 2.00 |
| 265 | 16.76 | 53.89 | 2.01 | 0.61 | 0.61 | 53.96 | 1.31 | 70.90 | 4.000 | No | No | 2.00 |
| 266 | 16.86 | 58.72 | 1.95 | 0.54 | 0.59 | 58.53 | 1.27 | 74.31 | 4.000 | No | No | 2.00 |
| 267 | 16.92 | 61.25 | 1.92 | 0.51 | 0.58 | 60.90 | 1.25 | 76.25 | 4.000 | No | No | 2.00 |
| 268 | 17.02 | 61.65 | 1.92 | 0.50 | 0.58 | 61.10 | 1.25 | 76.36 | 4.000 | No | No | 2.00 |
| 269 | 17.11 | 61.14 | 1.94 | 0.53 | 0.59 | 60.41 | 1.26 | 76.12 | 4.000 | No | No | 2.00 |
| 270 | 17.22 | 60.40 | 1.96 | 0.58 | 0.60 | 59.48 | 1.28 | 75.94 | 4.000 | Yes | No | 2.00 |
| 271 | 17.35 | 58.51 | 2.04 | 0.78 | 0.62 | 57.44 | 1.34 | 77.19 | 4.000 | Yes | No | 2.00 |
| 272 | 17.45 | 53.15 | 2.18 | 1.20 | 0.66 | 52.07 | 1.57 | 81.76 | 4.000 | Yes | No | 2.00 |
| 273 | 17.55 | 43.40 | 2.38 | 1.91 | 0.72 | 42.36 | 2.26 | 95.58 | 4.000 | Yes | No | 2.00 |
| 274 | 17.61 | 33.92 | 2.57 | 2.79 | 0.78 | 32.93 | 3.48 | 114.42 | 4.000 | Yes | No | 2.00 |
| 275 | 17.64 | 27.41 | 2.70 | 3.46 | 0.82 | 26.45 | 4.70 | 124.38 | 4.000 | Yes | Yes | 2.00 |
| 276 | 17.70 | 24.84 | 2.75 | 3.68 | 0.83 | 23.84 | 5.27 | 125.58 | 4.000 | Yes | Yes | 2.00 |
| 277 | 17.75 | 23.12 | 2.79 | 3.84 | 0.84 | 22.09 | 5.71 | 126.01 | 4.000 | Yes | Yes | 2.00 |
| 278 | 17.80 | 22.04 | 2.82 | 4.00 | 0.85 | 20.96 | 6.07 | 127.17 | 4.000 | Yes | Yes | 2.00 |
| 279 | 17.85 | 21.57 | 2.85 | 4.36 | 0.86 | 20.45 | 6.49 | 132.79 | 4.000 | Yes | Yes | 2.00 |
| 280 | 17.94 | 24.37 | 2.80 | 4.19 | 0.85 | 23.10 | 5.83 | 134.72 | 4.000 | No | Yes | 2.00 |
| 281 | 17.99 | 29.74 | 2.70 | 3.80 | 0.82 | 28.29 | 4.75 | 134.51 | 4.000 | No | Yes | 2.00 |
| 282 | 18.09 | 36.42 | 2.60 | 3.34 | 0.79 | 34.65 | 3.76 | 130.35 | 4.000 | No | Yes | 2.00 |
| 283 | 18.15 | 38.34 | 2.58 | 3.31 | 0.78 | 36.42 | 3.61 | 131.44 | 4.000 | No | No | 2.00 |
| 284 | 18.23 | 36.08 | 2.63 | 3.58 | 0.80 | 34.09 | 3.99 | 135.89 | 4.000 | No | Yes | 2.00 |
| 285 | 18.33 | 27.03 | 2.80 | 4.68 | 0.85 | 25.22 | 5.88 | 148.20 | 4.000 | No | Yes | 2.00 |
| 286 | 18.43 | 18.43 | 3.01 | 6.17 | 1.00 | 16.85 | 8.99 | 151.54 | 4.000 | No | Yes | 2.00 |
| 287 | 18.52 | 11.28 | 3.27 | 8.30 | 1.00 | 9.87 | 14.46 | 142.66 | 4.000 | No | Yes | 2.00 |
| 288 | 18.59 | 9.25 | 3.30 | 7.06 | 1.00 | 7.88 | 15.23 | 120.07 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 289 | 18.72 | 8.44 | 3.27 | 5.49 | 1.00 | 7.05 | 14.48 | 102.14 | 4.000 | No | Yes | 2.00 |
| 290 | 18.81 | 7.87 | 3.26 | 4.64 | 1.00 | 6.47 | 14.17 | 91.69 | 4.000 | No | Yes | 2.00 |
| 291 | 18.87 | 7.73 | 3.27 | 4.61 | 1.00 | 6.32 | 14.34 | 90.62 | 4.000 | No | Yes | 2.00 |
| 292 | 18.95 | 7.94 | 3.28 | 5.10 | 1.00 | 6.48 | 14.76 | 95.67 | 4.000 | No | Yes | 2.00 |
| 293 | 19.05 | 8.95 | 3.24 | 5.23 | 1.00 | 7.39 | 13.77 | 101.75 | 4.000 | No | Yes | 2.00 |
| 294 | 19.14 | 11.32 | 3.12 | 4.53 | 1.00 | 9.56 | 10.96 | 104.74 | 4.000 | No | Yes | 2.00 |
| 295 | 19.22 | 15.43 | 2.92 | 3.38 | 0.89 | 13.37 | 7.56 | 101.14 | 4.000 | Yes | Yes | 2.00 |
| 296 | 19.29 | 23.29 | 2.67 | 2.31 | 0.81 | 20.64 | 4.44 | 91.70 | 4.000 | Yes | Yes | 2.00 |
| 297 | 19.38 | 36.79 | 2.41 | 1.58 | 0.73 | 33.12 | 2.43 | 80.52 | 4.000 | Yes | No | 2.00 |
| 298 | 19.44 | 54.77 | 2.21 | 1.24 | 0.67 | 49.78 | 1.63 | 81.04 | 4.000 | Yes | No | 2.00 |
| 299 | 19.53 | 73.63 | 2.06 | 1.07 | 0.63 | 67.13 | 1.37 | 92.11 | 4.000 | Yes | No | 2.00 |
| 300 | 19.62 | 89.35 | 1.99 | 1.02 | 0.60 | 81.50 | 1.30 | 105.61 | 4.000 | Yes | No | 2.00 |
| 301 | 19.69 | 100.62 | 1.95 | 1.03 | 0.59 | 91.73 | 1.27 | 116.28 | 4.000 | Yes | No | 2.00 |
| 302 | 19.79 | 106.79 | 1.94 | 1.07 | 0.59 | 97.11 | 1.26 | 122.62 | 4.000 | No | No | 2.00 |
| 303 | 19.86 | 108.17 | 1.96 | 1.16 | 0.60 | 98.11 | 1.28 | 125.15 | 4.000 | No | No | 2.00 |
| 304 | 19.97 | 105.91 | 1.99 | 1.25 | 0.60 | 95.65 | 1.30 | 124.06 | 4.000 | No | No | 2.00 |
| 305 | 20.07 | 101.09 | 2.02 | 1.32 | 0.61 | 90.89 | 1.33 | 120.48 | 4.000 | No | No | 2.00 |
| 306 | 20.16 | 94.14 | 2.06 | 1.40 | 0.63 | 84.23 | 1.37 | 115.28 | 4.000 | No | No | 2.00 |
| 307 | 20.26 | 84.49 | 2.07 | 1.27 | 0.63 | 75.23 | 1.38 | 103.79 | 4.000 | Yes | No | 2.00 |
| 308 | 20.34 | 72.68 | 2.10 | 1.18 | 0.64 | 64.34 | 1.43 | 91.71 | 4.000 | Yes | No | 2.00 |
| 309 | 20.43 | 59.83 | 2.16 | 1.11 | 0.66 | 52.55 | 1.52 | 80.02 | 4.000 | Yes | No | 2.00 |
| 310 | 20.50 | 47.95 | 2.33 | 1.55 | 0.71 | 41.63 | 2.03 | 84.51 | 4.000 | Yes | No | 2.00 |
| 311 | 20.60 | 37.70 | 2.50 | 2.17 | 0.76 | 32.23 | 3.01 | 96.91 | 4.000 | Yes | No | 2.00 |
| 312 | 20.62 | 30.48 | 2.66 | 2.88 | 0.81 | 25.73 | 4.28 | 110.02 | 4.000 | Yes | Yes | 2.00 |
| 313 | 20.63 | 28.08 | 2.72 | 3.22 | 0.82 | 23.58 | 4.89 | 115.31 | 4.000 | Yes | Yes | 2.00 |
| 314 | 20.68 | 27.74 | 2.74 | 3.38 | 0.83 | 23.22 | 5.10 | 118.43 | 4.000 | Yes | Yes | 2.00 |
| 315 | 20.73 | 27.64 | 2.76 | 3.60 | 0.83 | 23.06 | 5.32 | 122.67 | 4.000 | Yes | Yes | 2.00 |
| 316 | 20.82 | 25.48 | 2.82 | 4.04 | 0.85 | 21.06 | 6.08 | 128.12 | 4.000 | Yes | Yes | 2.00 |
| 317 | 20.87 | 23.45 | 2.87 | 4.37 | 0.87 | 19.23 | 6.78 | 130.45 | 4.000 | Yes | Yes | 2.00 |
| 318 | 20.91 | 21.57 | 2.91 | 4.48 | 0.88 | 17.54 | 7.32 | 128.42 | 4.000 | Yes | Yes | 2.00 |
| 319 | 20.96 | 19.58 | 2.95 | 4.54 | 1.00 | 15.59 | 7.98 | 124.40 | 4.000 | Yes | Yes | 2.00 |
| 320 | 21.05 | 17.59 | 3.00 | 4.73 | 1.00 | 13.84 | 8.82 | 122.12 | 4.000 | No | Yes | 2.00 |
| 321 | 21.11 | 16.98 | 3.02 | 4.74 | 1.00 | 13.29 | 9.07 | 120.49 | 4.000 | No | Yes | 2.00 |
| 322 | 21.17 | 17.11 | 3.01 | 4.72 | 1.00 | 13.36 | 9.02 | 120.44 | 4.000 | No | Yes | 2.00 |
| 323 | 21.25 | 21.23 | 2.88 | 3.84 | 0.87 | 17.01 | 6.86 | 116.62 | 4.000 | Yes | Yes | 2.00 |
| 324 | 21.30 | 31.25 | 2.64 | 2.71 | 0.80 | 25.68 | 4.13 | 106.03 | 4.000 | Yes | Yes | 2.00 |
| 325 | 21.37 | 48.56 | 2.39 | 1.90 | 0.72 | 40.77 | 2.31 | 94.37 | 4.000 | Yes | No | 2.00 |
| 326 | 21.45 | 68.84 | 2.20 | 1.51 | 0.67 | 58.49 | 1.62 | 94.86 | 4.000 | Yes | No | 2.00 |
| 327 | 21.49 | 87.80 | 2.09 | 1.36 | 0.64 | 75.10 | 1.41 | 105.59 | 4.000 | Yes | No | 2.00 |
| 328 | 21.58 | 103.45 | 2.02 | 1.30 | 0.62 | 88.68 | 1.33 | 117.80 | 4.000 | Yes | No | 2.00 |
| 329 | 21.64 | 115.70 | 1.98 | 1.28 | 0.60 | 99.28 | 1.29 | 128.46 | 4.000 | Yes | No | 2.00 |
| 330 | 21.69 | 124.50 | 1.96 | 1.29 | 0.60 | 106.86 | 1.28 | 136.49 | 4.000 | Yes | No | 2.00 |
| 331 | 21.78 | 130.41 | 1.95 | 1.31 | 0.59 | 111.69 | 1.27 | 142.03 | 4.000 | No | No | 2.00 |
| 332 | 21.83 | 133.78 | 1.96 | 1.36 | 0.59 | 114.42 | 1.27 | 145.79 | 4.000 | No | No | 2.00 |
| 333 | 21.89 | 135.43 | 1.97 | 1.42 | 0.60 | 115.57 | 1.28 | 148.03 | 4.000 | No | No | 2.00 |
| 334 | 21.98 | 136.01 | 1.98 | 1.49 | 0.60 | 115.67 | 1.29 | 149.32 | 4.000 | No | No | 2.00 |
| 335 | 22.03 | 135.90 | 1.99 | 1.55 | 0.61 | 115.31 | 1.30 | 150.06 | 4.000 | No | No | 2.00 |
| 336 | 22.12 | 134.89 | 2.01 | 1.60 | 0.61 | 114.06 | 1.31 | 149.60 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 337 | 22.22 | 133.20 | 2.02 | 1.63 | 0.61 | 112.20 | 1.32 | 148.31 | 4.000 | No | No | 2.00 |
| 338 | 22.26 | 130.88 | 2.03 | 1.65 | 0.62 | 110.01 | 1.33 | 146.45 | 4.000 | No | No | 2.00 |
| 339 | 22.36 | 128.38 | 2.04 | 1.67 | 0.62 | 107.52 | 1.34 | 144.21 | 4.000 | No | No | 2.00 |
| 340 | 22.41 | 125.79 | 2.05 | 1.70 | 0.62 | 105.07 | 1.36 | 142.38 | 4.000 | No | No | 2.00 |
| 341 | 22.51 | 123.53 | 2.04 | 1.63 | 0.62 | 102.88 | 1.35 | 138.65 | 4.000 | No | No | 2.00 |
| 342 | 22.60 | 121.33 | 2.03 | 1.54 | 0.62 | 100.82 | 1.34 | 134.71 | 4.000 | No | No | 2.00 |
| 343 | 22.70 | 119.34 | 2.01 | 1.41 | 0.61 | 98.95 | 1.32 | 130.43 | 4.000 | No | No | 2.00 |
| 344 | 22.75 | 116.88 | 2.02 | 1.40 | 0.61 | 96.72 | 1.32 | 127.90 | 4.000 | No | No | 2.00 |
| 345 | 22.84 | 109.32 | 2.05 | 1.47 | 0.62 | 89.92 | 1.36 | 122.31 | 4.000 | No | No | 2.00 |
| 346 | 22.89 | 107.14 | 2.06 | 1.48 | 0.63 | 87.93 | 1.37 | 120.57 | 4.000 | No | No | 2.00 |
| 347 | 22.90 | 104.88 | 2.07 | 1.49 | 0.63 | 85.98 | 1.38 | 118.82 | 4.000 | No | No | 2.00 |
| 348 | 22.94 | 110.11 | 2.04 | 1.39 | 0.62 | 90.42 | 1.34 | 121.26 | 4.000 | No | No | 2.00 |
| 349 | 23.00 | 112.36 | 2.02 | 1.34 | 0.61 | 92.21 | 1.32 | 122.07 | 4.000 | No | No | 2.00 |
| 350 | 23.08 | 118.94 | 1.98 | 1.24 | 0.60 | 97.70 | 1.29 | 126.15 | 4.000 | No | No | 2.00 |
| 351 | 23.13 | 127.04 | 1.94 | 1.16 | 0.59 | 104.57 | 1.26 | 131.91 | 4.000 | No | No | 2.00 |
| 352 | 23.20 | 134.05 | 1.90 | 1.10 | 0.58 | 110.43 | 1.24 | 136.83 | 4.000 | No | No | 2.00 |
| 353 | 23.27 | 137.05 | 1.89 | 1.07 | 0.57 | 112.81 | 1.23 | 138.66 | 4.000 | No | No | 2.00 |
| 354 | 23.33 | 135.57 | 1.89 | 1.05 | 0.57 | 111.40 | 1.23 | 136.90 | 4.000 | No | No | 2.00 |
| 355 | 23.42 | 131.55 | 1.89 | 1.03 | 0.58 | 107.76 | 1.23 | 132.83 | 4.000 | No | No | 2.00 |
| 356 | 23.48 | 126.94 | 1.90 | 1.01 | 0.58 | 103.73 | 1.24 | 128.30 | 4.000 | No | No | 2.00 |
| 357 | 23.57 | 123.16 | 1.91 | 1.00 | 0.58 | 100.30 | 1.24 | 124.68 | 4.000 | No | No | 2.00 |
| 358 | 23.61 | 121.20 | 1.92 | 1.01 | 0.58 | 98.52 | 1.25 | 122.97 | 4.000 | No | No | 2.00 |
| 359 | 23.66 | 121.50 | 1.92 | 1.02 | 0.58 | 98.62 | 1.25 | 123.25 | 4.000 | No | No | 2.00 |
| 360 | 23.73 | 124.04 | 1.92 | 1.03 | 0.58 | 100.52 | 1.25 | 125.44 | 4.000 | No | No | 2.00 |
| 361 | 23.80 | 127.95 | 1.91 | 1.04 | 0.58 | 103.59 | 1.24 | 128.73 | 4.000 | No | No | 2.00 |
| 362 | 23.85 | 131.96 | 1.90 | 1.05 | 0.58 | 106.79 | 1.24 | 132.25 | 4.000 | No | No | 2.00 |
| 363 | 23.94 | 134.80 | 1.90 | 1.06 | 0.58 | 108.87 | 1.24 | 134.50 | 4.000 | No | No | 2.00 |
| 364 | 24.00 | 135.88 | 1.90 | 1.07 | 0.58 | 109.59 | 1.24 | 135.41 | 4.000 | No | No | 2.00 |
| 365 | 24.09 | 135.37 | 1.90 | 1.07 | 0.58 | 108.86 | 1.24 | 134.81 | 4.000 | No | No | 2.00 |
| 366 | 24.16 | 133.34 | 1.91 | 1.09 | 0.58 | 106.93 | 1.24 | 133.09 | 4.000 | No | No | 2.00 |
| 367 | 24.24 | 130.04 | 1.89 | 0.97 | 0.57 | 104.25 | 1.23 | 128.02 | 4.000 | No | No | 2.00 |
| 368 | 24.33 | 125.79 | 1.86 | 0.85 | 0.57 | 100.75 | 1.21 | 122.05 | 4.000 | No | No | 2.00 |
| 369 | 24.43 | 121.10 | 1.84 | 0.74 | 0.56 | 96.90 | 1.19 | 115.53 | 4.000 | No | No | 2.00 |
| 370 | 24.52 | 114.28 | 1.88 | 0.80 | 0.57 | 90.85 | 1.23 | 111.31 | 4.000 | No | No | 2.00 |
| 371 | 24.58 | 108.90 | 1.92 | 0.85 | 0.58 | 86.13 | 1.25 | 107.54 | 4.000 | No | No | 2.00 |
| 372 | 24.59 | 104.52 | 1.95 | 0.89 | 0.59 | 82.40 | 1.27 | 104.41 | 4.000 | No | No | 2.00 |
| 373 | 24.63 | 104.21 | 1.95 | 0.90 | 0.59 | 82.05 | 1.27 | 104.24 | 4.000 | No | No | 2.00 |
| 374 | 24.68 | 103.45 | 1.96 | 0.94 | 0.60 | 81.24 | 1.28 | 103.96 | 4.000 | No | No | 2.00 |
| 375 | 24.77 | 102.47 | 1.98 | 0.98 | 0.60 | 80.14 | 1.29 | 103.52 | 4.000 | No | No | 2.00 |
| 376 | 24.82 | 100.31 | 2.01 | 1.05 | 0.61 | 78.15 | 1.31 | 102.59 | 4.000 | No | No | 2.00 |
| 377 | 24.92 | 97.85 | 2.03 | 1.11 | 0.62 | 75.83 | 1.34 | 101.32 | 4.000 | No | No | 2.00 |
| 378 | 25.01 | 95.22 | 2.06 | 1.17 | 0.63 | 73.42 | 1.36 | 100.09 | 4.000 | No | No | 2.00 |
| 379 | 25.06 | 92.38 | 2.08 | 1.22 | 0.63 | 70.94 | 1.39 | 98.75 | 4.000 | No | No | 2.00 |
| 380 | 25.16 | 89.48 | 2.10 | 1.27 | 0.64 | 68.36 | 1.42 | 97.29 | 4.000 | No | No | 2.00 |
| 381 | 25.25 | 86.51 | 2.13 | 1.31 | 0.65 | 65.75 | 1.46 | 95.92 | 4.000 | No | No | 2.00 |
| 382 | 25.30 | 83.55 | 2.15 | 1.35 | 0.65 | 63.24 | 1.50 | 94.77 | 4.000 | No | No | 2.00 |
| 383 | 25.41 | 80.44 | 2.17 | 1.40 | 0.66 | 60.52 | 1.55 | 93.81 | 4.000 | Yes | No | 2.00 |
| 384 | 25.49 | 77.27 | 2.20 | 1.47 | 0.67 | 57.80 | 1.61 | 93.24 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 385 | 25.55 | 73.97 | 2.23 | 1.55 | 0.68 | 55.02 | 1.70 | 93.42 | 4.000 | Yes | No | 2.00 |
| 386 | 25.64 | 70.59 | 2.27 | 1.65 | 0.69 | 52.13 | 1.81 | 94.24 | 4.000 | Yes | No | 2.00 |
| 387 | 25.70 | 67.02 | 2.31 | 1.78 | 0.70 | 49.15 | 1.95 | 95.94 | 4.000 | Yes | No | 2.00 |
| 388 | 25.79 | 63.24 | 2.35 | 1.91 | 0.71 | 46.00 | 2.13 | 97.75 | 4.000 | Yes | No | 2.00 |
| 389 | 25.89 | 58.92 | 2.40 | 2.05 | 0.73 | 42.45 | 2.35 | 99.94 | 4.000 | Yes | No | 2.00 |
| 390 | 25.94 | 54.26 | 2.45 | 2.20 | 0.74 | 38.75 | 2.63 | 101.97 | 4.000 | Yes | No | 2.00 |
| 391 | 26.02 | 49.37 | 2.50 | 2.32 | 0.76 | 34.89 | 2.95 | 102.81 | 4.000 | Yes | No | 2.00 |
| 392 | 26.12 | 45.05 | 2.54 | 2.37 | 0.77 | 31.51 | 3.23 | 101.92 | 4.000 | Yes | No | 2.00 |
| 393 | 26.17 | 40.83 | 2.57 | 2.37 | 0.78 | 28.31 | 3.52 | 99.58 | 4.000 | Yes | No | 2.00 |
| 394 | 26.28 | 37.02 | 2.61 | 2.37 | 0.79 | 25.37 | 3.84 | 97.30 | 4.000 | Yes | Yes | 2.00 |
| 395 | 26.36 | 33.31 | 2.65 | 2.33 | 0.80 | 22.57 | 4.17 | 94.10 | 4.000 | Yes | Yes | 2.00 |
| 396 | 26.45 | 29.43 | 2.70 | 2.37 | 0.82 | 19.65 | 4.69 | 92.22 | 4.000 | Yes | Yes | 2.00 |
| 397 | 26.50 | 24.94 | 2.78 | 2.55 | 0.84 | 16.31 | 5.63 | 91.86 | 4.000 | Yes | Yes | 2.00 |
| 398 | 26.61 | 20.15 | 2.91 | 3.01 | 0.88 | 12.75 | 7.37 | 93.95 | 4.000 | Yes | Yes | 2.00 |
| 399 | 26.70 | 15.97 | 3.07 | 3.75 | 1.00 | 9.43 | 10.10 | 95.23 | 4.000 | No | Yes | 2.00 |
| 400 | 26.77 | 12.97 | 3.21 | 4.62 | 1.00 | 7.45 | 12.95 | 96.46 | 4.000 | No | Yes | 2.00 |
| 401 | 26.85 | 11.85 | 3.26 | 4.83 | 1.00 | 6.70 | 14.12 | 94.58 | 4.000 | No | Yes | 2.00 |
| 402 | 26.94 | 11.45 | 3.27 | 4.67 | 1.00 | 6.41 | 14.29 | 91.60 | 4.000 | No | Yes | 2.00 |
| 403 | 27.04 | 11.95 | 3.22 | 4.13 | 1.00 | 6.71 | 13.15 | 88.25 | 4.000 | No | Yes | 2.00 |
| 404 | 27.14 | 12.22 | 3.20 | 3.92 | 1.00 | 6.86 | 12.68 | 86.95 | 4.000 | No | Yes | 2.00 |
| 405 | 27.23 | 12.90 | 3.15 | 3.53 | 1.00 | 7.27 | 11.66 | 84.75 | 4.000 | No | Yes | 2.00 |
| 406 | 27.28 | 13.22 | 3.13 | 3.30 | 1.00 | 7.46 | 11.13 | 83.02 | 4.000 | No | Yes | 2.00 |
| 407 | 27.29 | 13.29 | 3.09 | 2.84 | 1.00 | 7.50 | 10.38 | 77.81 | 4.000 | No | Yes | 2.00 |
| 408 | 27.38 | 13.29 | 3.07 | 2.57 | 1.00 | 7.47 | 9.96 | 74.44 | 4.000 | No | Yes | 2.00 |
| 409 | 27.48 | 13.27 | 3.06 | 2.51 | 1.00 | 7.43 | 9.89 | 73.48 | 4.000 | No | Yes | 2.00 |
| 410 | 27.57 | 13.27 | 3.10 | 2.97 | 1.00 | 7.41 | 10.67 | 79.00 | 4.000 | No | Yes | 2.00 |
| 411 | 27.64 | 13.30 | 3.13 | 3.39 | 1.00 | 7.41 | 11.31 | 83.76 | 4.000 | No | Yes | 2.00 |
| 412 | 27.65 | 13.44 | 3.17 | 3.99 | 1.00 | 7.49 | 12.08 | 90.43 | 4.000 | No | Yes | 2.00 |
| 413 | 27.74 | 14.52 | 3.16 | 4.27 | 1.00 | 8.14 | 11.82 | 96.17 | 4.000 | No | Yes | 2.00 |
| 414 | 27.80 | 16.91 | 3.10 | 4.34 | 1.00 | 9.63 | 10.69 | 102.90 | 4.000 | No | Yes | 2.00 |
| 415 | 27.90 | 19.17 | 3.05 | 4.16 | 1.00 | 11.00 | 9.59 | 105.58 | 4.000 | No | Yes | 2.00 |
| 416 | 27.99 | 19.34 | 3.05 | 4.25 | 1.00 | 11.07 | 9.67 | 106.99 | 4.000 | No | Yes | 2.00 |
| 417 | 28.07 | 17.12 | 3.11 | 4.55 | 1.00 | 9.65 | 10.91 | 105.31 | 4.000 | No | Yes | 2.00 |
| 418 | 28.16 | 14.45 | 3.20 | 4.79 | 1.00 | 7.96 | 12.63 | 100.58 | 4.000 | No | Yes | 2.00 |
| 419 | 28.25 | 12.53 | 3.25 | 4.68 | 1.00 | 6.75 | 13.86 | 93.48 | 4.000 | No | Yes | 2.00 |
| 420 | 28.34 | 11.52 | 3.26 | 4.24 | 1.00 | 6.10 | 14.13 | 86.20 | 4.000 | No | Yes | 2.00 |
| 421 | 28.44 | 11.01 | 3.26 | 3.94 | 1.00 | 5.76 | 14.19 | 81.77 | 4.000 | No | Yes | 2.00 |
| 422 | 28.53 | 10.84 | 3.26 | 3.87 | 1.00 | 5.64 | 14.27 | 80.51 | 4.000 | No | Yes | 2.00 |
| 423 | 28.62 | 11.75 | 3.26 | 4.25 | 1.00 | 6.17 | 14.04 | 86.70 | 4.000 | No | Yes | 2.00 |
| 424 | 28.76 | 14.21 | 3.19 | 4.46 | 1.00 | 7.64 | 12.54 | 95.81 | 4.000 | No | Yes | 2.00 |
| 425 | 28.86 | 17.65 | 3.12 | 4.75 | 1.00 | 9.69 | 11.11 | 107.72 | 4.000 | No | Yes | 2.00 |
| 426 | 28.96 | 20.32 | 3.09 | 5.14 | 1.00 | 11.26 | 10.51 | 118.36 | 4.000 | No | Yes | 2.00 |
| 427 | 29.08 | 21.30 | 3.12 | 6.06 | 1.00 | 11.80 | 11.10 | 130.98 | 4.000 | No | Yes | 2.00 |
| 428 | 29.19 | 22.07 | 3.15 | 6.87 | 1.00 | 12.21 | 11.60 | 141.58 | 4.000 | No | Yes | 2.00 |
| 429 | 29.29 | 27.50 | 2.99 | 5.17 | 1.00 | 15.40 | 8.64 | 133.06 | 4.000 | No | Yes | 2.00 |
| 430 | 29.39 | 40.70 | 2.74 | 3.77 | 0.83 | 25.08 | 5.15 | 129.21 | 4.000 | No | Yes | 2.00 |
| 431 | 29.50 | 57.67 | 2.55 | 3.03 | 0.77 | 36.81 | 3.37 | 124.06 | 4.000 | No | No | 2.00 |
| 432 | 29.63 | 66.88 | 2.53 | 3.30 | 0.77 | 42.86 | 3.19 | 136.79 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 433 | 29.65 | 70.22 | 2.52 | 3.39 | 0.76 | 45.09 | 3.13 | 141.18 | 4.000 | Yes | No | 2.00 |
| 434 | 29.66 | 71.00 | 2.52 | 3.38 | 0.76 | 45.61 | 3.10 | 141.50 | 4.000 | Yes | No | 2.00 |
| 435 | 29.72 | 73.53 | 2.50 | 3.27 | 0.76 | 47.34 | 2.95 | 139.57 | 4.000 | Yes | No | 2.00 |
| 436 | 29.80 | 77.81 | 2.46 | 3.07 | 0.75 | 50.31 | 2.70 | 135.94 | 4.000 | Yes | No | 2.00 |
| 437 | 29.85 | 89.49 | 2.36 | 2.59 | 0.72 | 58.79 | 2.17 | 127.49 | 4.000 | Yes | No | 2.00 |
| 438 | 29.94 | 111.58 | 2.20 | 2.00 | 0.67 | 75.08 | 1.62 | 121.89 | 4.000 | Yes | No | 2.00 |
| 439 | 30.00 | 135.50 | 2.06 | 1.57 | 0.63 | 93.20 | 1.37 | 127.60 | 4.000 | Yes | No | 2.00 |
| 440 | 30.05 | 152.98 | 1.96 | 1.28 | 0.60 | 106.83 | 1.28 | 136.43 | 4.000 | Yes | No | 2.00 |
| 441 | 30.14 | 162.60 | 1.89 | 1.09 | 0.58 | 114.57 | 1.23 | 140.95 | 4.000 | Yes | No | 2.00 |
| 442 | 30.19 | 167.56 | 1.84 | 0.97 | 0.56 | 118.78 | 1.20 | 142.08 | 4.000 | Yes | No | 2.00 |
| 443 | 30.24 | 169.61 | 1.83 | 0.93 | 0.56 | 120.45 | 1.18 | 142.19 | 4.000 | Yes | No | 2.00 |
| 444 | 30.29 | 169.68 | 1.83 | 0.93 | 0.56 | 120.31 | 1.18 | 142.38 | 0.348 | No | No | 1.14 |
| 445 | 30.38 | 167.72 | 1.84 | 0.95 | 0.56 | 118.51 | 1.19 | 141.39 | 0.343 | No | No | 1.12 |
| 446 | 30.43 | 164.79 | 1.85 | 0.98 | 0.56 | 116.05 | 1.20 | 139.76 | 0.334 | No | No | 1.09 |
| 447 | 30.48 | 161.62 | 1.87 | 0.99 | 0.57 | 113.47 | 1.21 | 137.67 | 0.323 | No | No | 1.05 |
| 448 | 30.54 | 159.16 | 1.87 | 1.00 | 0.57 | 111.46 | 1.22 | 135.86 | 0.313 | No | No | 1.02 |
| 449 | 30.62 | 158.35 | 1.87 | 0.99 | 0.57 | 110.69 | 1.22 | 134.98 | 0.309 | No | No | 1.00 |
| 450 | 30.67 | 157.77 | 1.87 | 0.99 | 0.57 | 110.16 | 1.22 | 134.34 | 0.305 | No | No | 0.99 |
| 451 | 30.72 | 158.55 | 1.87 | 0.98 | 0.57 | 110.67 | 1.22 | 134.61 | 0.307 | No | No | 0.99 |
| 452 | 30.76 | 159.46 | 1.86 | 0.96 | 0.57 | 111.32 | 1.21 | 134.89 | 0.308 | No | No | 1.00 |
| 453 | 30.86 | 162.06 | 1.85 | 0.94 | 0.56 | 113.16 | 1.20 | 135.92 | 0.314 | No | No | 1.01 |
| 454 | 30.91 | 165.09 | 1.84 | 0.91 | 0.56 | 115.46 | 1.19 | 137.26 | 0.321 | No | No | 1.03 |
| 455 | 30.95 | 168.94 | 1.82 | 0.88 | 0.55 | 118.37 | 1.17 | 138.94 | 0.329 | No | No | 1.06 |
| 456 | 31.03 | 173.83 | 1.80 | 0.85 | 0.55 | 122.03 | 1.15 | 140.71 | 0.339 | No | No | 1.09 |
| 457 | 31.10 | 179.36 | 1.78 | 0.83 | 0.54 | 126.19 | 1.13 | 142.33 | 0.348 | No | No | 1.12 |
| 458 | 31.15 | 185.03 | 1.76 | 0.81 | 0.54 | 130.44 | 1.10 | 144.07 | 0.358 | No | No | 1.15 |
| 459 | 31.20 | 189.66 | 1.75 | 0.81 | 0.53 | 133.76 | 1.09 | 146.05 | 0.370 | No | No | 1.19 |
| 460 | 31.26 | 192.52 | 1.75 | 0.82 | 0.53 | 135.69 | 1.09 | 147.81 | 0.380 | No | No | 1.22 |
| 461 | 31.34 | 186.22 | 1.78 | 0.86 | 0.54 | 130.42 | 1.13 | 147.23 | 0.377 | No | No | 1.21 |
| 462 | 31.37 | 184.63 | 1.79 | 0.87 | 0.54 | 129.08 | 1.14 | 146.99 | 0.375 | No | No | 1.20 |
| 463 | 31.38 | 181.39 | 1.80 | 0.89 | 0.55 | 126.56 | 1.15 | 145.70 | 0.368 | No | No | 1.18 |
| 464 | 31.43 | 184.63 | 1.78 | 0.86 | 0.54 | 129.02 | 1.13 | 146.17 | 0.370 | No | No | 1.19 |
| 465 | 31.47 | 179.33 | 1.80 | 0.87 | 0.55 | 124.92 | 1.15 | 143.44 | 0.354 | No | No | 1.13 |
| 466 | 31.55 | 171.64 | 1.82 | 0.88 | 0.55 | 118.91 | 1.17 | 139.35 | 0.332 | No | No | 1.06 |
| 467 | 31.59 | 160.34 | 1.86 | 0.93 | 0.57 | 110.19 | 1.21 | 132.93 | 0.298 | No | No | 0.95 |
| 468 | 31.66 | 147.76 | 1.91 | 1.00 | 0.58 | 100.47 | 1.24 | 124.83 | 0.261 | No | No | 0.83 |
| 469 | 31.73 | 135.75 | 1.97 | 1.09 | 0.60 | 91.20 | 1.28 | 116.80 | 0.228 | No | No | 0.73 |
| 470 | 31.78 | 125.08 | 2.02 | 1.21 | 0.62 | 83.04 | 1.33 | 110.36 | 0.205 | No | No | 0.65 |
| 471 | 31.84 | 115.64 | 2.09 | 1.36 | 0.63 | 75.76 | 1.40 | 106.34 | 0.192 | No | No | 0.61 |
| 472 | 31.93 | 107.23 | 2.16 | 1.55 | 0.65 | 69.27 | 1.51 | 104.84 | 0.187 | No | No | 0.60 |
| 473 | 31.98 | 100.42 | 2.22 | 1.75 | 0.67 | 64.06 | 1.66 | 106.04 | 0.191 | No | No | 0.61 |
| 474 | 32.02 | 98.18 | 2.25 | 1.90 | 0.68 | 62.19 | 1.75 | 108.88 | 0.200 | No | No | 0.64 |
| 475 | 32.09 | 97.00 | 2.27 | 2.03 | 0.69 | 61.07 | 1.83 | 111.87 | 0.210 | No | No | 0.67 |
| 476 | 32.16 | 98.89 | 2.27 | 2.07 | 0.69 | 62.18 | 1.83 | 113.86 | 0.217 | No | No | 0.69 |
| 477 | 32.22 | 100.29 | 2.27 | 2.07 | 0.69 | 63.04 | 1.82 | 114.52 | 0.220 | No | No | 0.70 |
| 478 | 32.27 | 103.49 | 2.25 | 2.02 | 0.68 | 65.22 | 1.76 | 114.53 | 0.220 | No | No | 0.70 |
| 479 | 32.34 | 106.02 | 2.24 | 1.97 | 0.68 | 66.91 | 1.71 | 114.38 | 0.219 | No | No | 0.69 |
| 480 | 32.42 | 108.89 | 2.22 | 1.91 | 0.67 | 68.85 | 1.66 | 114.11 | 0.218 | No | No | 0.69 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 481 | 32.46 | 113.04 | 2.19 | 1.80 | 0.66 | 71.82 | 1.58 | 113.62 | 0.216 | No | No | 0.68 |
| 482 | 32.54 | 117.73 | 2.15 | 1.68 | 0.65 | 75.15 | 1.51 | 113.25 | 0.215 | No | No | 0.68 |
| 483 | 32.60 | 121.74 | 2.11 | 1.51 | 0.64 | 78.23 | 1.43 | 112.00 | 0.211 | No | No | 0.66 |
| 484 | 32.67 | 124.81 | 2.07 | 1.39 | 0.63 | 80.60 | 1.38 | 111.53 | 0.209 | No | No | 0.66 |
| 485 | 32.75 | 127.51 | 2.05 | 1.31 | 0.62 | 82.59 | 1.35 | 111.85 | 0.210 | No | No | 0.66 |
| 486 | 32.81 | 130.38 | 2.05 | 1.32 | 0.62 | 84.43 | 1.35 | 113.95 | 0.218 | No | No | 0.68 |
| 487 | 32.89 | 133.38 | 2.04 | 1.34 | 0.62 | 86.29 | 1.35 | 116.21 | 0.226 | No | No | 0.71 |
| 488 | 32.94 | 129.47 | 2.07 | 1.43 | 0.63 | 83.21 | 1.38 | 114.84 | 0.221 | No | No | 0.69 |
| 489 | 32.95 | 131.02 | 2.07 | 1.44 | 0.63 | 84.23 | 1.38 | 116.07 | 0.225 | No | No | 0.71 |
| 490 | 33.00 | 132.88 | 2.07 | 1.46 | 0.63 | 85.36 | 1.38 | 117.56 | 0.231 | No | No | 0.72 |
| 491 | 33.06 | 141.08 | 2.04 | 1.42 | 0.62 | 91.06 | 1.34 | 122.40 | 0.251 | No | No | 0.79 |
| 492 | 33.11 | 142.26 | 2.04 | 1.45 | 0.62 | 91.66 | 1.35 | 123.66 | 0.256 | No | No | 0.80 |
| 493 | 33.20 | 141.21 | 2.06 | 1.50 | 0.63 | 90.60 | 1.36 | 123.53 | 0.255 | No | No | 0.80 |
| 494 | 33.25 | 139.02 | 2.08 | 1.56 | 0.63 | 88.78 | 1.39 | 123.06 | 0.253 | No | No | 0.79 |
| 495 | 33.34 | 137.03 | 2.09 | 1.61 | 0.64 | 87.07 | 1.41 | 122.48 | 0.251 | No | No | 0.78 |
| 496 | 33.38 | 136.69 | 2.10 | 1.63 | 0.64 | 86.68 | 1.42 | 122.68 | 0.252 | No | No | 0.79 |
| 497 | 33.48 | 138.41 | 2.10 | 1.64 | 0.64 | 87.63 | 1.41 | 123.78 | 0.256 | No | No | 0.80 |
| 498 | 33.58 | 141.92 | 2.09 | 1.64 | 0.63 | 89.83 | 1.40 | 125.79 | 0.265 | No | No | 0.83 |
| 499 | 33.63 | 146.74 | 2.07 | 1.63 | 0.63 | 93.05 | 1.38 | 128.81 | 0.279 | No | No | 0.87 |
| 500 | 33.73 | 152.41 | 2.06 | 1.61 | 0.63 | 96.75 | 1.37 | 132.15 | 0.295 | No | No | 0.92 |
| 501 | 33.82 | 158.96 | 2.04 | 1.60 | 0.62 | 101.09 | 1.35 | 136.16 | 0.315 | No | No | 0.98 |
| 502 | 33.87 | 165.74 | 2.03 | 1.58 | 0.62 | 105.66 | 1.33 | 140.58 | 0.338 | No | No | 1.05 |
| 503 | 33.96 | 172.72 | 2.01 | 1.57 | 0.61 | 110.29 | 1.32 | 145.13 | 0.364 | No | No | 1.13 |
| 504 | 34.02 | 180.58 | 2.00 | 1.57 | 0.61 | 115.54 | 1.30 | 150.66 | 0.398 | No | No | 1.23 |
| 505 | 34.11 | 190.03 | 1.98 | 1.57 | 0.60 | 121.77 | 1.29 | 157.32 | 0.442 | No | No | 1.37 |
| 506 | 34.18 | 200.49 | 1.97 | 1.59 | 0.60 | 128.68 | 1.28 | 164.99 | 0.498 | No | No | 1.54 |
| 507 | 34.26 | 210.44 | 1.96 | 1.63 | 0.60 | 135.11 | 1.28 | 172.52 | 0.558 | No | No | 1.72 |
| 508 | 34.35 | 219.45 | 1.96 | 1.68 | 0.60 | 140.77 | 1.28 | 179.50 | 0.618 | No | No | 1.91 |
| 509 | 34.44 | 227.51 | 1.95 | 1.71 | 0.59 | 145.83 | 1.27 | 185.53 | 0.674 | No | No | 2.00 |
| 510 | 34.49 | 233.96 | 1.95 | 1.72 | 0.59 | 150.02 | 1.27 | 190.23 | 0.720 | No | No | 2.00 |
| 511 | 34.59 | 237.94 | 1.94 | 1.72 | 0.59 | 152.42 | 1.27 | 192.83 | 0.747 | No | No | 2.00 |
| 512 | 34.69 | 240.00 | 1.94 | 1.73 | 0.59 | 153.47 | 1.26 | 194.12 | 0.760 | No | No | 2.00 |
| 513 | 34.76 | 240.94 | 1.94 | 1.72 | 0.59 | 153.92 | 1.26 | 194.53 | 0.765 | No | No | 2.00 |
| 514 | 34.83 | 240.60 | 1.94 | 1.72 | 0.59 | 153.43 | 1.26 | 194.02 | 0.759 | No | No | 2.00 |
| 515 | 34.93 | 237.97 | 1.94 | 1.71 | 0.59 | 151.43 | 1.26 | 191.54 | 0.733 | No | No | 2.00 |
| 516 | 35.02 | 233.82 | 1.95 | 1.70 | 0.59 | 148.39 | 1.27 | 188.08 | 0.699 | No | No | 2.00 |
| 517 | 35.12 | 229.78 | 1.94 | 1.65 | 0.59 | 145.60 | 1.27 | 184.23 | 0.662 | No | No | 2.00 |
| 518 | 35.22 | 226.47 | 1.94 | 1.62 | 0.59 | 143.26 | 1.26 | 181.13 | 0.633 | No | No | 1.94 |
| 519 | 35.30 | 222.22 | 1.94 | 1.59 | 0.59 | 140.29 | 1.26 | 177.46 | 0.600 | No | No | 1.83 |
| 520 | 35.38 | 208.55 | 1.98 | 1.66 | 0.60 | 130.48 | 1.29 | 168.21 | 0.523 | No | No | 1.60 |
| 521 | 35.43 | 198.10 | 2.00 | 1.71 | 0.61 | 123.09 | 1.31 | 161.35 | 0.471 | No | No | 1.44 |
| 522 | 35.46 | 189.40 | 2.03 | 1.76 | 0.62 | 116.99 | 1.33 | 155.80 | 0.432 | No | No | 1.32 |
| 523 | 35.51 | 187.20 | 2.03 | 1.73 | 0.62 | 115.53 | 1.33 | 153.78 | 4.000 | Yes | No | 2.00 |
| 524 | 35.56 | 176.78 | 2.05 | 1.75 | 0.62 | 108.45 | 1.35 | 146.76 | 4.000 | Yes | No | 2.00 |
| 525 | 35.66 | 163.52 | 2.08 | 1.79 | 0.63 | 99.31 | 1.39 | 138.53 | 4.000 | Yes | No | 2.00 |
| 526 | 35.70 | 148.20 | 2.13 | 1.85 | 0.65 | 89.01 | 1.46 | 130.03 | 4.000 | Yes | No | 2.00 |
| 527 | 35.80 | 131.87 | 2.19 | 1.98 | 0.66 | 77.90 | 1.59 | 123.66 | 4.000 | Yes | No | 2.00 |
| 528 | 35.89 | 111.32 | 2.28 | 2.22 | 0.69 | 64.17 | 1.87 | 119.95 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 529 | 35.96 | 89.09 | 2.41 | 2.59 | 0.73 | 49.72 | 2.43 | 120.81 | 4.000 | Yes | No | 2.00 |
| 530 | 36.04 | 68.24 | 2.54 | 2.90 | 0.77 | 36.73 | 3.28 | 120.37 | 4.000 | Yes | No | 2.00 |
| 531 | 36.14 | 52.15 | 2.66 | 3.11 | 0.81 | 27.04 | 4.33 | 117.01 | 4.000 | Yes | Yes | 2.00 |
| 532 | 36.19 | 43.48 | 2.73 | 3.10 | 0.83 | 22.01 | 5.03 | 110.69 | 4.000 | Yes | Yes | 2.00 |
| 533 | 36.28 | 40.51 | 2.77 | 3.18 | 0.84 | 20.23 | 5.44 | 110.05 | 4.000 | Yes | Yes | 2.00 |
| 534 | 36.33 | 40.51 | 2.76 | 3.10 | 0.84 | 20.24 | 5.35 | 108.32 | 3.600 | No | Yes | 2.00 |
| 535 | 36.42 | 42.30 | 2.74 | 3.02 | 0.83 | 21.24 | 5.09 | 108.08 | 3.600 | No | Yes | 2.00 |
| 536 | 36.48 | 45.97 | 2.69 | 2.87 | 0.81 | 23.38 | 4.59 | 107.27 | 3.600 | No | Yes | 2.00 |
| 537 | 36.52 | 51.03 | 2.66 | 2.98 | 0.81 | 26.20 | 4.31 | 112.95 | 3.600 | No | Yes | 2.00 |
| 538 | 36.62 | 54.10 | 2.66 | 3.19 | 0.81 | 27.78 | 4.31 | 119.67 | 3.600 | No | Yes | 2.00 |
| 539 | 36.68 | 54.07 | 2.69 | 3.50 | 0.81 | 27.55 | 4.59 | 126.59 | 3.600 | No | Yes | 2.00 |
| 540 | 36.77 | 52.82 | 2.71 | 3.61 | 0.82 | 26.73 | 4.79 | 128.11 | 3.600 | No | Yes | 2.00 |
| 541 | 36.86 | 54.64 | 2.69 | 3.49 | 0.81 | 27.76 | 4.56 | 126.60 | 4.000 | Yes | Yes | 2.00 |
| 542 | 36.90 | 67.67 | 2.53 | 2.74 | 0.77 | 35.75 | 3.22 | 115.19 | 4.000 | Yes | No | 2.00 |
| 543 | 37.00 | 98.14 | 2.29 | 1.88 | 0.69 | 55.13 | 1.87 | 103.13 | 4.000 | Yes | No | 2.00 |
| 544 | 37.10 | 140.34 | 2.04 | 1.30 | 0.62 | 83.45 | 1.35 | 112.56 | 4.000 | Yes | No | 2.00 |
| 545 | 37.20 | 182.54 | 1.86 | 0.97 | 0.57 | 113.15 | 1.21 | 136.84 | 4.000 | Yes | No | 2.00 |
| 546 | 37.29 | 213.04 | 1.75 | 0.82 | 0.53 | 135.23 | 1.09 | 147.30 | 4.000 | Yes | No | 2.00 |
| 547 | 37.39 | 232.34 | 1.70 | 0.76 | 0.52 | 149.01 | 1.00 | 149.01 | 4.000 | Yes | No | 2.00 |
| 548 | 37.49 | 241.91 | 1.70 | 0.80 | 0.52 | 155.00 | 1.00 | 155.00 | 0.426 | No | No | 1.28 |
| 549 | 37.53 | 245.57 | 1.72 | 0.85 | 0.52 | 156.74 | 1.02 | 160.20 | 0.462 | No | No | 1.39 |
| 550 | 37.58 | 246.07 | 1.73 | 0.90 | 0.53 | 156.33 | 1.06 | 165.44 | 0.501 | No | No | 1.51 |
| 551 | 37.62 | 247.84 | 1.75 | 0.95 | 0.53 | 156.88 | 1.08 | 169.66 | 0.534 | No | No | 1.60 |
| 552 | 37.69 | 250.56 | 1.77 | 1.01 | 0.54 | 157.82 | 1.11 | 175.10 | 0.579 | No | No | 1.74 |
| 553 | 37.77 | 253.53 | 1.78 | 1.07 | 0.54 | 158.95 | 1.13 | 179.78 | 0.620 | No | No | 1.86 |
| 554 | 37.82 | 254.98 | 1.80 | 1.14 | 0.55 | 159.10 | 1.15 | 183.39 | 0.654 | No | No | 1.96 |
| 555 | 37.87 | 254.84 | 1.81 | 1.18 | 0.55 | 158.42 | 1.17 | 184.85 | 0.667 | No | No | 2.00 |
| 556 | 37.91 | 252.72 | 1.83 | 1.23 | 0.56 | 156.44 | 1.18 | 184.82 | 0.667 | No | No | 2.00 |
| 557 | 37.97 | 248.23 | 1.85 | 1.27 | 0.56 | 152.87 | 1.20 | 183.06 | 0.650 | No | No | 1.95 |
| 558 | 38.06 | 241.92 | 1.87 | 1.31 | 0.57 | 148.07 | 1.21 | 179.59 | 0.619 | No | No | 1.85 |
| 559 | 38.10 | 235.58 | 1.88 | 1.34 | 0.57 | 143.53 | 1.22 | 175.74 | 0.585 | No | No | 1.75 |
| 560 | 38.17 | 230.89 | 1.89 | 1.34 | 0.57 | 140.30 | 1.23 | 172.34 | 0.556 | No | No | 1.67 |
| 561 | 38.25 | 228.09 | 1.88 | 1.30 | 0.57 | 138.57 | 1.22 | 169.66 | 0.534 | No | No | 1.60 |
| 562 | 38.35 | 225.79 | 1.87 | 1.25 | 0.57 | 137.24 | 1.22 | 167.11 | 0.514 | No | No | 1.54 |
| 563 | 38.40 | 223.43 | 1.87 | 1.21 | 0.57 | 135.86 | 1.21 | 164.83 | 0.496 | No | No | 1.48 |
| 564 | 38.46 | 221.65 | 1.86 | 1.19 | 0.57 | 134.68 | 1.21 | 163.21 | 0.484 | No | No | 1.45 |
| 565 | 38.54 | 220.87 | 1.86 | 1.18 | 0.57 | 134.09 | 1.21 | 162.26 | 0.477 | No | No | 1.43 |
| 566 | 38.60 | 220.87 | 1.86 | 1.15 | 0.56 | 134.14 | 1.21 | 161.69 | 0.473 | No | No | 1.41 |
| 567 | 38.69 | 222.22 | 1.85 | 1.12 | 0.56 | 135.09 | 1.20 | 161.77 | 0.474 | No | No | 1.41 |
| 568 | 38.74 | 224.92 | 1.83 | 1.09 | 0.56 | 137.05 | 1.19 | 162.53 | 0.479 | No | No | 1.43 |
| 569 | 38.83 | 227.85 | 1.82 | 1.08 | 0.56 | 138.91 | 1.18 | 163.73 | 0.488 | No | No | 1.46 |
| 570 | 38.88 | 229.20 | 1.81 | 1.05 | 0.55 | 139.97 | 1.17 | 163.54 | 0.487 | No | No | 1.45 |
| 571 | 38.97 | 228.76 | 1.81 | 1.03 | 0.55 | 139.65 | 1.16 | 162.47 | 0.479 | No | No | 1.43 |
| 572 | 39.02 | 227.25 | 1.80 | 1.00 | 0.55 | 138.83 | 1.16 | 160.45 | 0.464 | No | No | 1.38 |
| 573 | 39.11 | 224.44 | 1.81 | 0.99 | 0.55 | 136.82 | 1.16 | 158.54 | 0.451 | No | No | 1.34 |
| 574 | 39.16 | 218.51 | 1.81 | 0.99 | 0.55 | 132.80 | 1.17 | 154.99 | 0.426 | No | No | 1.27 |
| 575 | 39.23 | 205.48 | 1.85 | 1.02 | 0.56 | 123.73 | 1.20 | 148.10 | 0.382 | No | No | 1.14 |
| 576 | 39.24 | 200.81 | 1.85 | 1.01 | 0.56 | 120.69 | 1.20 | 145.08 | 0.364 | No | No | 1.08 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 577 | 39.28 | 198.62 | 1.85 | 1.00 | 0.56 | 119.29 | 1.20 | 143.39 | 0.354 | No | No | 1.05 |
| 578 | 39.32 | 201.93 | 1.83 | 0.94 | 0.56 | 121.86 | 1.18 | 144.08 | 0.358 | No | No | 1.07 |
| 579 | 39.39 | 194.55 | 1.84 | 0.95 | 0.56 | 116.84 | 1.20 | 139.67 | 4.000 | Yes | No | 2.00 |
| 580 | 39.47 | 183.96 | 1.88 | 0.98 | 0.57 | 109.44 | 1.22 | 133.48 | 4.000 | Yes | No | 2.00 |
| 581 | 39.54 | 171.48 | 1.92 | 1.05 | 0.58 | 100.68 | 1.25 | 125.99 | 4.000 | Yes | No | 2.00 |
| 582 | 39.62 | 158.42 | 1.98 | 1.14 | 0.60 | 91.63 | 1.29 | 117.99 | 4.000 | Yes | No | 2.00 |
| 583 | 39.71 | 145.73 | 2.03 | 1.23 | 0.62 | 82.95 | 1.33 | 110.70 | 4.000 | Yes | No | 2.00 |
| 584 | 39.76 | 134.50 | 2.08 | 1.32 | 0.63 | 75.46 | 1.39 | 105.08 | 4.000 | Yes | No | 2.00 |
| 585 | 39.85 | 125.32 | 2.13 | 1.40 | 0.65 | 69.36 | 1.46 | 101.34 | 4.000 | Yes | No | 2.00 |
| 586 | 39.90 | 117.87 | 2.17 | 1.48 | 0.66 | 64.48 | 1.53 | 98.95 | 4.000 | Yes | No | 2.00 |
| 587 | 40.00 | 111.05 | 2.20 | 1.56 | 0.67 | 60.00 | 1.63 | 97.53 | 4.000 | Yes | No | 2.00 |
| 588 | 40.06 | 104.71 | 2.24 | 1.65 | 0.68 | 55.91 | 1.73 | 96.96 | 4.000 | Yes | No | 2.00 |
| 589 | 40.15 | 98.67 | 2.28 | 1.75 | 0.69 | 52.00 | 1.87 | 97.18 | 4.000 | Yes | No | 2.00 |
| 590 | 40.21 | 92.83 | 2.33 | 1.90 | 0.71 | 48.24 | 2.05 | 98.86 | 4.000 | Yes | No | 2.00 |
| 591 | 40.29 | 86.59 | 2.39 | 2.09 | 0.72 | 44.24 | 2.31 | 102.19 | 4.000 | Yes | No | 2.00 |
| 592 | 40.35 | 79.68 | 2.46 | 2.39 | 0.75 | 39.85 | 2.72 | 108.27 | 4.000 | Yes | No | 2.00 |
| 593 | 40.43 | 72.22 | 2.53 | 2.63 | 0.77 | 35.37 | 3.16 | 111.81 | 4.000 | Yes | No | 2.00 |
| 594 | 40.52 | 63.85 | 2.60 | 2.88 | 0.79 | 30.51 | 3.76 | 114.58 | 4.000 | Yes | Yes | 2.00 |
| 595 | 40.58 | 55.21 | 2.68 | 3.09 | 0.81 | 25.70 | 4.47 | 115.00 | 4.000 | Yes | Yes | 2.00 |
| 596 | 40.67 | 46.88 | 2.77 | 3.45 | 0.84 | 21.09 | 5.54 | 116.83 | 4.000 | Yes | Yes | 2.00 |
| 597 | 40.77 | 41.63 | 2.85 | 3.76 | 0.86 | 18.24 | 6.45 | 117.65 | 4.000 | Yes | Yes | 2.00 |
| 598 | 40.84 | 39.14 | 2.89 | 3.94 | 0.87 | 16.87 | 6.99 | 117.99 | 4.000 | Yes | Yes | 2.00 |
| 599 | 40.89 | 42.28 | 2.83 | 3.65 | 0.86 | 18.55 | 6.27 | 116.25 | 4.000 | Yes | Yes | 2.00 |
| 600 | 40.94 | 49.75 | 2.72 | 3.09 | 0.82 | 22.62 | 4.92 | 111.31 | 4.000 | Yes | Yes | 2.00 |
| 601 | 41.03 | 61.46 | 2.57 | 2.48 | 0.78 | 29.20 | 3.53 | 103.18 | 4.000 | Yes | No | 2.00 |
| 602 | 41.08 | 73.03 | 2.45 | 2.07 | 0.74 | 35.94 | 2.68 | 96.47 | 4.000 | Yes | No | 2.00 |
| 603 | 41.14 | 82.03 | 2.37 | 1.83 | 0.72 | 41.30 | 2.24 | 92.51 | 4.000 | Yes | No | 2.00 |
| 604 | 41.22 | 87.70 | 2.33 | 1.71 | 0.71 | 44.68 | 2.04 | 90.97 | 4.000 | Yes | No | 2.00 |
| 605 | 41.28 | 90.43 | 2.31 | 1.68 | 0.70 | 46.24 | 1.97 | 91.29 | 0.151 | No | No | 0.45 |
| 606 | 41.33 | 91.99 | 2.32 | 1.74 | 0.70 | 46.96 | 1.99 | 93.52 | 0.156 | No | No | 0.46 |
| 607 | 41.42 | 93.64 | 2.33 | 1.85 | 0.71 | 47.61 | 2.04 | 97.02 | 0.165 | No | No | 0.49 |
| 608 | 41.47 | 97.01 | 2.33 | 1.94 | 0.71 | 49.31 | 2.04 | 100.81 | 0.175 | No | No | 0.52 |
| 609 | 41.52 | 104.03 | 2.31 | 1.97 | 0.70 | 53.17 | 1.96 | 104.48 | 0.186 | No | No | 0.55 |
| 610 | 41.62 | 115.47 | 2.27 | 1.93 | 0.69 | 59.72 | 1.81 | 107.92 | 0.197 | No | No | 0.58 |
| 611 | 41.67 | 130.01 | 2.22 | 1.88 | 0.67 | 68.21 | 1.66 | 112.91 | 0.214 | No | No | 0.63 |
| 612 | 41.76 | 144.45 | 2.17 | 1.82 | 0.66 | 76.74 | 1.54 | 118.23 | 0.234 | No | No | 0.69 |
| 613 | 41.82 | 156.39 | 2.14 | 1.79 | 0.65 | 83.80 | 1.48 | 123.75 | 0.256 | No | No | 0.76 |
| 614 | 41.90 | 165.43 | 2.11 | 1.76 | 0.64 | 89.14 | 1.44 | 128.02 | 0.275 | No | No | 0.81 |
| 615 | 41.99 | 171.57 | 2.10 | 1.74 | 0.64 | 92.73 | 1.41 | 131.05 | 0.289 | No | No | 0.85 |
| 616 | 42.05 | 174.81 | 2.09 | 1.73 | 0.63 | 94.61 | 1.40 | 132.58 | 0.297 | No | No | 0.88 |
| 617 | 42.15 | 175.22 | 2.09 | 1.74 | 0.63 | 94.64 | 1.40 | 132.77 | 0.298 | No | No | 0.88 |
| 618 | 42.23 | 173.33 | 2.10 | 1.77 | 0.64 | 93.24 | 1.42 | 132.06 | 0.294 | No | No | 0.87 |
| 619 | 42.30 | 169.55 | 2.11 | 1.80 | 0.64 | 90.73 | 1.44 | 130.51 | 0.287 | No | No | 0.85 |
| 620 | 42.38 | 163.64 | 2.13 | 1.84 | 0.65 | 86.97 | 1.47 | 127.88 | 0.274 | No | No | 0.81 |
| 621 | 42.48 | 153.79 | 2.16 | 1.88 | 0.66 | 80.87 | 1.53 | 123.60 | 0.256 | No | No | 0.75 |
| 622 | 42.57 | 141.98 | 2.20 | 1.94 | 0.67 | 73.69 | 1.62 | 119.15 | 0.237 | No | No | 0.70 |
| 623 | 42.64 | 129.97 | 2.24 | 2.01 | 0.68 | 66.53 | 1.73 | 115.28 | 0.222 | No | No | 0.66 |
| 624 | 42.72 | 121.20 | 2.27 | 2.02 | 0.69 | 61.42 | 1.82 | 111.72 | 0.210 | No | No | 0.62 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 625 | 42.82 | 114.72 | 2.29 | 1.99 | 0.69 | 57.72 | 1.88 | 108.24 | 0.198 | No | No | 0.58 |
| 626 | 42.90 | 110.03 | 2.30 | 1.96 | 0.70 | 55.08 | 1.91 | 105.42 | 0.189 | No | No | 0.56 |
| 627 | 42.97 | 106.05 | 2.31 | 1.98 | 0.70 | 52.74 | 1.98 | 104.32 | 0.186 | No | No | 0.55 |
| 628 | 43.06 | 102.31 | 2.34 | 2.04 | 0.71 | 50.43 | 2.08 | 104.69 | 0.187 | No | No | 0.55 |
| 629 | 43.15 | 98.76 | 2.35 | 2.01 | 0.71 | 48.44 | 2.11 | 102.43 | 0.180 | No | No | 0.53 |
| 630 | 43.20 | 97.75 | 2.34 | 1.92 | 0.71 | 48.00 | 2.07 | 99.54 | 0.172 | No | No | 0.51 |
| 631 | 43.30 | 104.19 | 2.28 | 1.70 | 0.69 | 51.99 | 1.84 | 95.67 | 0.161 | No | No | 0.48 |
| 632 | 43.40 | 119.88 | 2.19 | 1.51 | 0.66 | 61.38 | 1.58 | 97.12 | 0.165 | No | No | 0.49 |
| 633 | 43.48 | 132.43 | 2.13 | 1.40 | 0.65 | 68.91 | 1.47 | 100.97 | 0.176 | No | No | 0.52 |
| 634 | 43.51 | 139.11 | 2.10 | 1.37 | 0.64 | 72.90 | 1.43 | 103.89 | 0.184 | No | No | 0.54 |
| 635 | 43.52 | 146.23 | 2.08 | 1.34 | 0.63 | 77.22 | 1.39 | 107.23 | 0.195 | No | No | 0.57 |
| 636 | 43.56 | 160.13 | 2.03 | 1.26 | 0.62 | 85.83 | 1.33 | 114.20 | 0.219 | No | No | 0.64 |
| 637 | 43.61 | 178.86 | 1.96 | 1.17 | 0.60 | 97.60 | 1.28 | 124.81 | 0.261 | No | No | 0.77 |
| 638 | 43.67 | 193.23 | 1.92 | 1.11 | 0.58 | 106.74 | 1.25 | 133.29 | 0.300 | No | No | 0.88 |
| 639 | 43.72 | 206.01 | 1.88 | 1.05 | 0.57 | 115.04 | 1.22 | 140.56 | 0.338 | No | No | 1.00 |
| 640 | 43.80 | 216.51 | 1.85 | 1.00 | 0.56 | 121.88 | 1.20 | 145.95 | 0.369 | No | No | 1.09 |
| 641 | 43.85 | 224.74 | 1.82 | 0.97 | 0.56 | 127.26 | 1.18 | 149.84 | 0.393 | No | No | 1.16 |
| 642 | 43.90 | 231.25 | 1.81 | 0.95 | 0.55 | 131.51 | 1.16 | 152.56 | 0.410 | No | No | 1.21 |
| 643 | 43.94 | 236.38 | 1.79 | 0.94 | 0.55 | 134.87 | 1.14 | 154.37 | 0.422 | No | No | 1.24 |
| 644 | 43.99 | 239.82 | 1.78 | 0.92 | 0.54 | 137.13 | 1.13 | 155.28 | 0.428 | No | No | 1.26 |
| 645 | 44.08 | 241.54 | 1.78 | 0.92 | 0.54 | 138.11 | 1.13 | 155.65 | 0.431 | No | No | 1.27 |
| 646 | 44.14 | 241.51 | 1.79 | 0.94 | 0.54 | 137.71 | 1.14 | 156.49 | 0.436 | No | No | 1.28 |
| 647 | 44.22 | 240.40 | 1.80 | 0.97 | 0.55 | 136.41 | 1.15 | 157.19 | 0.441 | No | No | 1.30 |
| 648 | 44.28 | 238.31 | 1.82 | 1.01 | 0.55 | 134.50 | 1.17 | 157.37 | 0.442 | No | No | 1.30 |
| 649 | 44.33 | 235.67 | 1.83 | 1.05 | 0.56 | 132.35 | 1.18 | 156.78 | 0.438 | No | No | 1.29 |
| 650 | 44.40 | 232.27 | 1.85 | 1.10 | 0.56 | 129.52 | 1.20 | 155.80 | 0.432 | No | No | 1.27 |
| 651 | 44.48 | 231.30 | 1.87 | 1.15 | 0.57 | 128.25 | 1.22 | 155.90 | 0.432 | No | No | 1.27 |
| 652 | 44.52 | 228.57 | 1.90 | 1.24 | 0.58 | 125.64 | 1.24 | 155.24 | 0.428 | No | No | 1.26 |
| 653 | 44.61 | 230.02 | 1.89 | 1.23 | 0.58 | 126.41 | 1.23 | 155.88 | 0.432 | No | No | 1.27 |
| 654 | 44.72 | 231.52 | 1.90 | 1.24 | 0.58 | 127.03 | 1.23 | 156.70 | 0.438 | No | No | 1.29 |
| 655 | 44.77 | 236.14 | 1.88 | 1.21 | 0.57 | 130.05 | 1.22 | 159.04 | 0.454 | No | No | 1.34 |
| 656 | 44.91 | 237.86 | 1.89 | 1.24 | 0.57 | 130.46 | 1.23 | 160.27 | 0.463 | No | No | 1.36 |
| 657 | 44.95 | 231.69 | 1.91 | 1.29 | 0.58 | 126.16 | 1.24 | 156.88 | 0.439 | No | No | 1.29 |
| 658 | 45.02 | 227.41 | 1.92 | 1.32 | 0.59 | 123.19 | 1.25 | 154.33 | 0.422 | No | No | 1.24 |
| 659 | 45.04 | 198.97 | 2.01 | 1.51 | 0.61 | 104.88 | 1.32 | 138.44 | 0.327 | No | No | 0.96 |
| 660 | 45.06 | 203.49 | 2.00 | 1.46 | 0.61 | 107.81 | 1.30 | 140.63 | 0.339 | No | No | 1.00 |
| 661 | 45.11 | 208.45 | 1.98 | 1.41 | 0.60 | 111.04 | 1.29 | 143.03 | 0.352 | No | No | 1.04 |
| 662 | 45.15 | 239.96 | 1.87 | 1.20 | 0.57 | 131.64 | 1.22 | 160.49 | 0.464 | No | No | 1.37 |
| 663 | 45.21 | 246.91 | 1.85 | 1.16 | 0.56 | 136.23 | 1.20 | 163.81 | 0.489 | No | No | 1.44 |
| 664 | 45.25 | 252.44 | 1.84 | 1.13 | 0.56 | 139.80 | 1.19 | 166.43 | 0.509 | No | No | 1.50 |
| 665 | 45.30 | 256.29 | 1.83 | 1.13 | 0.56 | 142.11 | 1.18 | 168.34 | 0.524 | No | No | 1.54 |
| 666 | 45.35 | 258.04 | 1.83 | 1.13 | 0.56 | 143.02 | 1.18 | 169.35 | 0.532 | No | No | 1.57 |
| 667 | 45.41 | 258.42 | 1.83 | 1.14 | 0.56 | 143.02 | 1.19 | 169.64 | 0.534 | No | No | 1.57 |
| 668 | 45.49 | 257.00 | 1.84 | 1.15 | 0.56 | 141.89 | 1.19 | 168.87 | 0.528 | No | No | 1.55 |
| 669 | 45.55 | 254.13 | 1.84 | 1.15 | 0.56 | 139.97 | 1.19 | 167.24 | 0.515 | No | No | 1.52 |
| 670 | 45.63 | 249.51 | 1.85 | 1.16 | 0.56 | 136.90 | 1.20 | 164.52 | 0.494 | No | No | 1.46 |
| 671 | 45.69 | 243.67 | 1.86 | 1.16 | 0.57 | 133.19 | 1.21 | 161.09 | 0.469 | No | No | 1.38 |
| 672 | 45.78 | 236.62 | 1.88 | 1.18 | 0.57 | 128.61 | 1.22 | 156.88 | 0.439 | No | No | 1.29 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 673 | 45.84 | 228.05 | 1.89 | 1.18 | 0.58 | 123.25 | 1.23 | 151.68 | 0.405 | No | No | 1.19 |
| 674 | 45.93 | 217.69 | 1.91 | 1.19 | 0.58 | 116.85 | 1.24 | 145.18 | 0.365 | No | No | 1.07 |
| 675 | 46.02 | 205.11 | 1.93 | 1.19 | 0.59 | 109.16 | 1.26 | 137.24 | 4.000 | Yes | No | 2.00 |
| 676 | 46.08 | 190.40 | 1.96 | 1.19 | 0.60 | 100.37 | 1.28 | 128.00 | 4.000 | Yes | No | 2.00 |
| 677 | 46.16 | 174.41 | 1.99 | 1.20 | 0.61 | 90.73 | 1.30 | 118.20 | 4.000 | Yes | No | 2.00 |
| 678 | 46.24 | 157.13 | 2.04 | 1.24 | 0.62 | 80.39 | 1.35 | 108.31 | 4.000 | Yes | No | 2.00 |
| 679 | 46.31 | 138.07 | 2.12 | 1.34 | 0.64 | 68.91 | 1.44 | 99.54 | 4.000 | Yes | No | 2.00 |
| 680 | 46.41 | 117.36 | 2.22 | 1.54 | 0.67 | 56.54 | 1.67 | 94.32 | 4.000 | Yes | No | 2.00 |
| 681 | 46.48 | 95.77 | 2.36 | 1.87 | 0.72 | 44.06 | 2.17 | 95.41 | 4.000 | Yes | No | 2.00 |
| 682 | 46.56 | 75.72 | 2.51 | 2.32 | 0.76 | 32.98 | 3.08 | 101.49 | 4.000 | Yes | No | 2.00 |
| 683 | 46.65 | 58.08 | 2.68 | 2.81 | 0.81 | 23.81 | 4.47 | 106.39 | 4.000 | Yes | Yes | 2.00 |
| 684 | 46.75 | 45.43 | 2.81 | 3.12 | 0.85 | 17.64 | 5.95 | 104.92 | 4.000 | Yes | Yes | 2.00 |
| 685 | 46.84 | 36.62 | 2.95 | 3.29 | 1.00 | 12.08 | 8.01 | 96.75 | 4.000 | Yes | Yes | 2.00 |
| 686 | 46.94 | 30.75 | 3.03 | 3.37 | 1.00 | 9.96 | 9.25 | 92.20 | 3.600 | No | Yes | 2.00 |
| 687 | 47.02 | 25.79 | 3.12 | 3.65 | 1.00 | 8.18 | 10.96 | 89.65 | 3.600 | No | Yes | 2.00 |
| 688 | 47.08 | 21.37 | 3.22 | 4.12 | 1.00 | 6.60 | 13.29 | 87.68 | 3.600 | No | Yes | 2.00 |
| 689 | 47.12 | 18.76 | 3.30 | 4.53 | 1.00 | 5.66 | 15.23 | 86.24 | 3.600 | No | Yes | 2.00 |
| 690 | 47.16 | 17.85 | 3.33 | 4.58 | 1.00 | 5.33 | 15.88 | 84.67 | 3.600 | No | Yes | 2.00 |
| 691 | 47.21 | 17.81 | 3.31 | 4.30 | 1.00 | 5.32 | 15.49 | 82.35 | 3.600 | No | Yes | 2.00 |
| 692 | 47.27 | 17.46 | 3.31 | 4.03 | 1.00 | 5.18 | 15.33 | 79.44 | 3.600 | No | Yes | 2.00 |
| 693 | 47.35 | 16.42 | 3.33 | 3.97 | 1.00 | 4.80 | 15.97 | 76.72 | 3.600 | No | Yes | 2.00 |
| 694 | 47.40 | 15.74 | 3.33 | 3.65 | 1.00 | 4.56 | 15.95 | 72.71 | 3.600 | No | Yes | 2.00 |
| 695 | 47.50 | 15.37 | 3.32 | 3.29 | 1.00 | 4.42 | 15.62 | 68.97 | 3.600 | No | Yes | 2.00 |
| 696 | 47.55 | 15.16 | 3.29 | 2.90 | 1.00 | 4.34 | 15.04 | 65.28 | 3.600 | No | Yes | 2.00 |
| 697 | 47.61 | 15.00 | 3.29 | 2.76 | 1.00 | 4.27 | 14.89 | 63.67 | 3.600 | No | Yes | 2.00 |
| 698 | 47.69 | 14.73 | 3.29 | 2.69 | 1.00 | 4.17 | 15.00 | 62.57 | 3.600 | No | Yes | 2.00 |
| 699 | 47.76 | 14.39 | 3.30 | 2.67 | 1.00 | 4.05 | 15.25 | 61.71 | 3.600 | No | Yes | 2.00 |
| 700 | 47.83 | 14.02 | 3.31 | 2.58 | 1.00 | 3.91 | 15.40 | 60.22 | 3.600 | No | Yes | 2.00 |
| 701 | 47.93 | 13.85 | 3.30 | 2.41 | 1.00 | 3.84 | 15.20 | 58.40 | 3.600 | No | Yes | 2.00 |
| 702 | 48.02 | 13.82 | 3.29 | 2.31 | 1.00 | 3.82 | 15.00 | 57.34 | 3.600 | No | Yes | 2.00 |
| 703 | 48.09 | 13.88 | 3.28 | 2.19 | 1.00 | 3.84 | 14.67 | 56.35 | 3.600 | No | Yes | 2.00 |
| 704 | 48.18 | 13.85 | 3.29 | 2.28 | 1.00 | 3.82 | 14.94 | 57.05 | 3.600 | No | Yes | 2.00 |
| 705 | 48.27 | 13.88 | 3.30 | 2.43 | 1.00 | 3.82 | 15.29 | 58.44 | 3.600 | No | Yes | 2.00 |
| 706 | 48.37 | 13.98 | 3.33 | 2.72 | 1.00 | 3.85 | 15.87 | 61.09 | 3.600 | No | Yes | 2.00 |
| 707 | 48.46 | 14.12 | 3.34 | 2.92 | 1.00 | 3.89 | 16.20 | 62.98 | 3.600 | No | Yes | 2.00 |
| 708 | 48.52 | 14.18 | 3.35 | 3.07 | 1.00 | 3.90 | 16.46 | 64.25 | 3.600 | No | Yes | 2.00 |
| 709 | 48.60 | 14.25 | 3.35 | 3.18 | 1.00 | 3.92 | 16.64 | 65.23 | 3.600 | No | Yes | 2.00 |
| 710 | 48.70 | 14.38 | 3.35 | 3.25 | 1.00 | 3.96 | 16.68 | 65.99 | 3.600 | No | Yes | 2.00 |
| 711 | 48.79 | 14.65 | 3.35 | 3.27 | 1.00 | 4.04 | 16.50 | 66.70 | 3.600 | No | Yes | 2.00 |
| 712 | 48.85 | 15.06 | 3.34 | 3.39 | 1.00 | 4.18 | 16.39 | 68.42 | 3.600 | No | Yes | 2.00 |
| 713 | 48.94 | 15.74 | 3.34 | 3.61 | 1.00 | 4.40 | 16.24 | 71.44 | 3.600 | No | Yes | 2.00 |
| 714 | 49.04 | 16.68 | 3.31 | 3.62 | 1.00 | 4.71 | 15.57 | 73.34 | 3.600 | No | Yes | 2.00 |
| 715 | 49.13 | 18.30 | 3.32 | 4.31 | 1.00 | 5.25 | 15.62 | 82.09 | 3.600 | No | Yes | 2.00 |
| 716 | 49.23 | 21.13 | 3.29 | 4.85 | 1.00 | 6.21 | 14.82 | 92.00 | 3.600 | No | Yes | 2.00 |
| 717 | 49.33 | 24.04 | 3.27 | 5.48 | 1.00 | 7.18 | 14.31 | 102.80 | 3.600 | No | Yes | 2.00 |
| 718 | 49.38 | 24.88 | 3.28 | 6.09 | 1.00 | 7.46 | 14.69 | 109.60 | 3.600 | No | Yes | 2.00 |
| 719 | 49.42 | 25.93 | 3.28 | 6.47 | 1.00 | 7.81 | 14.70 | 114.80 | 3.600 | No | Yes | 2.00 |
| 720 | 49.48 | 26.70 | 3.28 | 6.79 | 1.00 | 8.06 | 14.75 | 118.93 | 3.600 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 721 | 49.53 | 28.79 | 3.25 | 6.60 | 1.00 | 8.76 | 13.86 | 121.43 | 3.600 | No | Yes | 2.00 |
| 722 | 49.58 | 29.43 | 3.24 | 6.72 | 1.00 | 8.97 | 13.78 | 123.62 | 3.600 | No | Yes | 2.00 |
| 723 | 49.63 | 30.10 | 3.24 | 6.80 | 1.00 | 9.19 | 13.66 | 125.52 | 3.600 | No | Yes | 2.00 |
| 724 | 49.72 | 30.91 | 3.23 | 6.72 | 1.00 | 9.44 | 13.37 | 126.23 | 3.600 | No | Yes | 2.00 |
| 725 | 49.77 | 31.42 | 3.22 | 6.60 | 1.00 | 9.60 | 13.13 | 125.98 | 3.600 | No | Yes | 2.00 |
| 726 | 49.83 | 31.42 | 3.22 | 6.55 | 1.00 | 9.59 | 13.08 | 125.40 | 3.600 | No | Yes | 2.00 |
| 727 | 49.92 | 30.71 | 3.23 | 6.62 | 1.00 | 9.33 | 13.37 | 124.67 | 3.600 | No | Yes | 2.00 |
| 728 | 49.97 | 30.39 | 3.23 | 6.56 | 1.00 | 9.21 | 13.41 | 123.55 | 3.600 | No | Yes | 2.00 |
| 729 | 50.04 | 29.48 | 3.25 | 6.66 | 1.00 | 8.89 | 13.80 | 122.65 | 3.600 | No | Yes | 2.00 |
| 730 | 50.11 | 29.82 | 3.24 | 6.56 | 1.00 | 8.99 | 13.61 | 122.33 | 3.600 | No | Yes | 2.00 |
| 731 | 50.20 | 30.21 | 3.22 | 6.30 | 1.00 | 9.10 | 13.25 | 120.55 | 3.600 | No | Yes | 2.00 |
| 732 | 50.27 | 30.78 | 3.19 | 5.73 | 1.00 | 9.28 | 12.51 | 116.01 | 3.600 | No | Yes | 2.00 |
| 733 | 50.34 | 29.50 | 3.18 | 5.11 | 1.00 | 8.83 | 12.20 | 107.79 | 3.600 | No | Yes | 2.00 |
| 734 | 50.45 | 26.76 | 3.19 | 4.68 | 1.00 | 7.90 | 12.55 | 99.22 | 3.600 | No | Yes | 2.00 |
| 735 | 50.54 | 23.73 | 3.23 | 4.48 | 1.00 | 6.88 | 13.43 | 92.39 | 3.600 | No | Yes | 2.00 |
| 736 | 50.59 | 21.13 | 3.28 | 4.47 | 1.00 | 6.01 | 14.59 | 87.71 | 3.600 | No | Yes | 2.00 |
| 737 | 50.68 | 19.24 | 3.32 | 4.43 | 1.00 | 5.37 | 15.59 | 83.78 | 3.600 | No | Yes | 2.00 |
| 738 | 50.79 | 18.13 | 3.33 | 4.26 | 1.00 | 4.99 | 16.06 | 80.17 | 3.600 | No | Yes | 2.00 |
| 739 | 50.88 | 17.81 | 3.33 | 4.10 | 1.00 | 4.88 | 16.03 | 78.18 | 3.600 | No | Yes | 2.00 |
| 740 | 50.98 | 17.64 | 3.34 | 4.11 | 1.00 | 4.81 | 16.19 | 77.89 | 3.600 | No | Yes | 2.00 |
| 741 | 51.07 | 17.81 | 3.32 | 3.85 | 1.00 | 4.86 | 15.67 | 76.09 | 3.600 | No | Yes | 2.00 |
| 742 | 51.17 | 18.43 | 3.26 | 3.21 | 1.00 | 5.05 | 14.19 | 71.67 | 3.600 | No | Yes | 2.00 |
| 743 | 51.24 | 19.51 | 3.20 | 2.74 | 1.00 | 5.40 | 12.74 | 68.77 | 3.600 | No | Yes | 2.00 |
| 744 | 51.33 | 20.19 | 3.19 | 2.81 | 1.00 | 5.61 | 12.56 | 70.43 | 3.600 | No | Yes | 2.00 |
| 745 | 51.46 | 20.09 | 3.23 | 3.28 | 1.00 | 5.56 | 13.45 | 74.75 | 3.600 | No | Yes | 2.00 |
| 746 | 51.46 | 19.80 | 3.27 | 3.71 | 1.00 | 5.46 | 14.31 | 78.20 | 3.600 | No | Yes | 2.00 |
| 747 | 51.51 | 19.77 | 3.28 | 3.88 | 1.00 | 5.45 | 14.62 | 79.60 | 3.600 | No | Yes | 2.00 |
| 748 | 51.56 | 19.87 | 3.29 | 4.15 | 1.00 | 5.47 | 14.98 | 82.02 | 3.600 | No | Yes | 2.00 |
| 749 | 51.65 | 19.95 | 3.31 | 4.41 | 1.00 | 5.49 | 15.35 | 84.26 | 3.600 | No | Yes | 2.00 |
| 750 | 51.71 | 20.09 | 3.32 | 4.71 | 1.00 | 5.53 | 15.72 | 86.89 | 3.600 | No | Yes | 2.00 |
| 751 | 51.79 | 20.49 | 3.32 | 4.86 | 1.00 | 5.65 | 15.73 | 88.80 | 3.600 | No | Yes | 2.00 |
| 752 | 51.85 | 21.23 | 3.32 | 5.11 | 1.00 | 5.88 | 15.68 | 92.19 | 3.600 | No | Yes | 2.00 |
| 753 | 51.94 | 22.11 | 3.32 | 5.42 | 1.00 | 6.15 | 15.66 | 96.33 | 3.600 | No | Yes | 2.00 |
| 754 | 51.99 | 23.22 | 3.32 | 5.95 | 1.00 | 6.51 | 15.77 | 102.62 | 3.600 | No | Yes | 2.00 |
| 755 | 52.09 | 24.17 | 3.33 | 6.60 | 1.00 | 6.80 | 16.12 | 109.52 | 3.600 | No | Yes | 2.00 |
| 756 | 52.19 | 27.74 | 3.28 | 6.62 | 1.00 | 7.93 | 14.73 | 116.81 | 3.600 | No | Yes | 2.00 |
| 757 | 52.28 | 33.34 | 3.20 | 6.19 | 1.00 | 9.72 | 12.62 | 122.63 | 3.600 | No | Yes | 2.00 |
| 758 | 52.35 | 36.42 | 3.17 | 6.29 | 1.00 | 10.69 | 12.02 | 128.41 | 3.600 | No | Yes | 2.00 |
| 759 | 52.43 | 37.06 | 3.18 | 6.64 | 1.00 | 10.87 | 12.22 | 132.82 | 3.600 | No | Yes | 2.00 |
| 760 | 52.52 | 35.17 | 3.22 | 7.33 | 1.00 | 10.25 | 13.30 | 136.28 | 3.600 | No | Yes | 2.00 |
| 761 | 52.62 | 35.61 | 3.22 | 7.23 | 1.00 | 10.37 | 13.11 | 135.93 | 3.600 | No | Yes | 2.00 |
| 762 | 52.72 | 35.98 | 3.20 | 6.96 | 1.00 | 10.46 | 12.80 | 133.92 | 3.600 | No | Yes | 2.00 |
| 763 | 52.81 | 34.26 | 3.24 | 7.47 | 1.00 | 9.89 | 13.70 | 135.53 | 3.600 | No | Yes | 2.00 |
| 764 | 52.91 | 31.32 | 3.34 | 9.52 | 1.00 | 8.94 | 16.37 | 146.31 | 3.600 | No | Yes | 2.00 |
| 765 | 53.00 | 37.23 | 3.27 | 9.04 | 1.00 | 10.79 | 14.34 | 154.70 | 3.600 | No | Yes | 2.00 |
| 766 | 53.10 | 62.36 | 2.95 | 5.53 | 1.00 | 18.71 | 7.92 | 148.13 | 4.000 | Yes | Yes | 2.00 |
| 767 | 53.20 | 108.21 | 2.62 | 3.37 | 1.00 | 33.14 | 3.92 | 129.79 | 4.000 | Yes | Yes | 2.00 |
| 768 | 53.29 | 163.78 | 2.38 | 2.36 | 1.00 | 50.57 | 2.27 | 114.61 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 769 | 53.38 | 213.88 | 2.24 | 1.98 | 1.00 | 66.21 | 1.72 | 114.09 | 4.000 | Yes | No | 2.00 |
| 770 | 53.46 | 260.07 | 2.14 | 1.75 | 1.00 | 80.59 | 1.49 | 119.81 | 4.000 | Yes | No | 2.00 |
| 771 | 53.53 | 292.05 | 2.12 | 1.83 | 1.00 | 90.48 | 1.45 | 130.93 | 4.000 | Yes | No | 2.00 |
| 772 | 53.63 | 323.19 | 2.09 | 1.82 | 1.00 | 100.02 | 1.40 | 139.93 | 4.000 | Yes | No | 2.00 |
| 773 | 53.73 | 361.79 | 2.01 | 1.58 | 1.00 | 111.85 | 1.31 | 146.92 | 4.000 | Yes | No | 2.00 |
| 774 | 53.82 | 388.35 | 1.92 | 1.28 | 1.00 | 119.89 | 1.25 | 150.03 | 4.000 | Yes | No | 2.00 |
| 775 | 53.92 | 387.71 | 1.89 | 1.12 | 1.00 | 119.45 | 1.23 | 146.54 | 4.000 | Yes | No | 2.00 |
| 776 | 53.94 | 360.18 | 1.92 | 1.15 | 1.00 | 110.85 | 1.25 | 138.23 | 0.326 | No | No | 0.98 |
| 777 | 53.96 | 336.26 | 1.95 | 1.19 | 1.00 | 103.38 | 1.27 | 131.20 | 0.290 | No | No | 0.88 |
| 778 | 53.97 | 349.08 | 1.92 | 1.12 | 1.00 | 107.34 | 1.25 | 134.16 | 0.305 | No | No | 0.92 |
| 779 | 54.05 | 377.59 | 1.87 | 1.03 | 1.00 | 116.04 | 1.22 | 141.00 | 0.341 | No | No | 1.03 |
| 780 | 54.08 | 426.28 | 1.79 | 0.91 | 1.00 | 131.09 | 1.15 | 150.15 | 0.395 | No | No | 1.19 |
| 781 | 54.13 | 473.21 | 1.74 | 0.84 | 1.00 | 145.55 | 1.06 | 154.41 | 0.422 | No | No | 1.28 |
| 782 | 54.19 | 518.79 | 1.70 | 0.83 | 1.00 | 159.56 | 1.00 | 159.56 | 0.458 | No | No | 1.38 |
| 783 | 54.25 | 524.22 | 1.71 | 0.86 | 1.00 | 161.12 | 1.01 | 162.94 | 0.482 | No | No | 1.46 |
| 784 | 54.28 | 510.87 | 1.74 | 0.91 | 1.00 | 156.95 | 1.06 | 166.66 | 0.510 | No | No | 1.54 |
| 785 | 54.29 | 486.82 | 1.76 | 0.94 | 1.00 | 149.48 | 1.10 | 164.40 | 0.493 | No | No | 1.49 |
| 786 | 54.34 | 486.89 | 1.76 | 0.94 | 1.00 | 149.42 | 1.10 | 164.35 | 0.493 | No | No | 1.49 |
| 787 | 54.35 | 492.20 | 1.75 | 0.93 | 1.00 | 151.05 | 1.09 | 164.72 | 0.496 | No | No | 1.50 |
| 788 | 54.40 | 504.89 | 1.74 | 0.91 | 1.00 | 154.89 | 1.07 | 165.62 | 0.503 | No | No | 1.52 |
| 789 | 54.44 | 522.30 | 1.72 | 0.90 | 1.00 | 160.18 | 1.04 | 166.45 | 0.509 | No | No | 1.54 |
| 790 | 54.49 | 535.62 | 1.71 | 0.88 | 1.00 | 164.19 | 1.01 | 165.88 | 0.505 | No | No | 1.53 |
| 791 | 54.53 | 546.25 | 1.70 | 0.87 | 1.00 | 167.39 | 1.00 | 167.39 | 0.516 | No | No | 1.56 |
| 792 | 54.57 | 558.27 | 1.69 | 0.87 | 1.00 | 171.02 | 1.00 | 171.02 | 0.545 | No | No | 1.65 |
| 793 | 54.58 | 567.78 | 1.70 | 0.89 | 1.00 | 173.92 | 1.00 | 173.92 | 0.569 | No | No | 1.72 |
| 794 | 54.63 | 560.90 | 1.71 | 0.92 | 1.00 | 171.71 | 1.01 | 173.90 | 0.569 | No | No | 1.72 |
| 795 | 54.68 | 536.31 | 1.75 | 0.99 | 1.00 | 164.04 | 1.08 | 176.93 | 0.595 | No | No | 1.80 |
| 796 | 54.73 | 510.50 | 1.78 | 1.03 | 1.00 | 156.00 | 1.12 | 175.12 | 0.579 | No | No | 1.75 |
| 797 | 54.78 | 499.67 | 1.79 | 1.04 | 1.00 | 152.59 | 1.14 | 173.29 | 0.564 | No | No | 1.71 |
| 798 | 54.83 | 493.63 | 1.80 | 1.06 | 1.00 | 150.64 | 1.15 | 172.82 | 0.560 | No | No | 1.70 |
| 799 | 54.88 | 497.14 | 1.80 | 1.09 | 1.00 | 151.64 | 1.15 | 175.08 | 0.579 | No | No | 1.75 |
| 800 | 54.92 | 500.68 | 1.81 | 1.15 | 1.00 | 152.65 | 1.17 | 178.37 | 0.608 | No | No | 1.84 |
| 801 | 54.97 | 510.81 | 1.81 | 1.14 | 1.00 | 155.66 | 1.16 | 180.73 | 0.629 | No | No | 1.91 |
| 802 | 55.02 | 513.44 | 1.81 | 1.15 | 1.00 | 156.38 | 1.16 | 181.62 | 0.637 | No | No | 1.93 |
| 803 | 55.12 | 487.90 | 1.85 | 1.25 | 1.00 | 148.39 | 1.20 | 178.01 | 0.605 | No | No | 1.83 |
| 804 | 55.17 | 449.17 | 1.92 | 1.45 | 1.00 | 136.44 | 1.25 | 170.63 | 0.542 | No | No | 1.64 |
| 805 | 55.25 | 410.54 | 1.98 | 1.59 | 1.00 | 124.51 | 1.29 | 160.49 | 0.464 | No | No | 1.41 |
| 806 | 55.31 | 394.21 | 1.98 | 1.55 | 1.00 | 119.43 | 1.29 | 154.46 | 0.423 | No | No | 1.28 |
| 807 | 55.36 | 388.18 | 1.95 | 1.35 | 1.00 | 117.52 | 1.27 | 148.87 | 0.387 | No | No | 1.17 |
| 808 | 55.45 | 381.09 | 1.91 | 1.20 | 1.00 | 115.23 | 1.25 | 143.68 | 0.356 | No | No | 1.08 |
| 809 | 55.50 | 365.91 | 1.92 | 1.15 | 1.00 | 110.54 | 1.25 | 137.89 | 0.324 | No | No | 0.98 |
| 810 | 55.60 | 351.24 | 1.94 | 1.19 | 1.00 | 105.95 | 1.26 | 133.93 | 0.303 | No | No | 0.92 |
| 811 | 55.65 | 332.24 | 1.96 | 1.21 | 1.00 | 100.11 | 1.28 | 128.15 | 0.276 | No | No | 0.84 |
| 812 | 55.71 | 324.14 | 1.96 | 1.15 | 1.00 | 97.58 | 1.27 | 124.39 | 0.259 | No | No | 0.79 |
| 813 | 55.75 | 320.40 | 1.93 | 1.03 | 1.00 | 96.40 | 1.26 | 121.19 | 0.246 | No | No | 0.75 |
| 814 | 55.79 | 325.12 | 1.91 | 0.99 | 1.00 | 97.79 | 1.25 | 121.90 | 0.248 | No | No | 0.76 |
| 815 | 55.84 | 332.47 | 1.90 | 0.97 | 1.00 | 99.97 | 1.24 | 123.76 | 0.256 | No | No | 0.78 |
| 816 | 55.89 | 338.01 | 1.90 | 0.97 | 1.00 | 101.60 | 1.23 | 125.39 | 0.263 | No | No | 0.80 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 817 | 55.90 | 341.15 | 1.89 | 0.96 | 1.00 | 102.54 | 1.23 | 126.17 | 0.267 | No | No | 0.81 |
| 818 | 55.94 | 336.26 | 1.90 | 0.98 | 1.00 | 101.02 | 1.24 | 124.98 | 0.262 | No | No | 0.80 |
| 819 | 55.99 | 327.63 | 1.92 | 1.01 | 1.00 | 98.34 | 1.25 | 122.89 | 0.253 | No | No | 0.77 |
| 820 | 56.03 | 317.88 | 1.94 | 1.05 | 1.00 | 95.34 | 1.26 | 120.41 | 0.242 | No | No | 0.74 |
| 821 | 56.08 | 311.67 | 1.95 | 1.06 | 1.00 | 93.40 | 1.27 | 118.54 | 0.235 | No | No | 0.72 |
| 822 | 56.14 | 306.37 | 1.95 | 1.05 | 1.00 | 91.74 | 1.27 | 116.74 | 0.228 | No | No | 0.69 |
| 823 | 56.22 | 299.89 | 1.96 | 1.06 | 1.00 | 89.70 | 1.28 | 114.65 | 0.220 | No | No | 0.67 |
| 824 | 56.28 | 294.29 | 1.97 | 1.06 | 1.00 | 87.95 | 1.28 | 112.90 | 0.214 | No | No | 0.65 |
| 825 | 56.33 | 292.57 | 1.97 | 1.06 | 1.00 | 87.39 | 1.29 | 112.38 | 0.212 | No | No | 0.65 |
| 826 | 56.38 | 294.06 | 1.97 | 1.04 | 1.00 | 87.79 | 1.28 | 112.46 | 0.212 | No | No | 0.65 |
| 827 | 56.45 | 301.34 | 1.95 | 1.02 | 1.00 | 89.92 | 1.27 | 114.23 | 0.219 | No | No | 0.67 |
| 828 | 56.52 | 312.58 | 1.93 | 0.98 | 1.00 | 93.24 | 1.25 | 117.01 | 0.229 | No | No | 0.70 |
| 829 | 56.62 | 325.19 | 1.90 | 0.94 | 1.00 | 96.94 | 1.24 | 120.21 | 0.242 | No | No | 0.74 |
| 830 | 56.66 | 338.42 | 1.87 | 0.89 | 1.00 | 100.88 | 1.22 | 123.02 | 0.253 | No | No | 0.77 |
| 831 | 56.73 | 350.06 | 1.87 | 0.90 | 1.00 | 104.30 | 1.21 | 126.65 | 0.269 | No | No | 0.82 |
| 832 | 56.81 | 357.11 | 1.87 | 0.94 | 1.00 | 106.33 | 1.22 | 129.59 | 0.282 | No | No | 0.86 |
| 833 | 56.95 | 363.42 | 1.89 | 1.01 | 1.00 | 108.06 | 1.23 | 132.64 | 0.297 | No | No | 0.91 |
| 834 | 57.00 | 372.46 | 1.88 | 1.03 | 1.00 | 110.72 | 1.23 | 135.80 | 0.313 | No | No | 0.96 |
| 835 | 57.09 | 373.11 | 1.89 | 1.06 | 1.00 | 110.80 | 1.23 | 136.52 | 0.317 | No | No | 0.97 |
| 836 | 57.19 | 368.58 | 1.91 | 1.10 | 1.00 | 109.32 | 1.24 | 135.85 | 0.313 | No | No | 0.96 |
| 837 | 57.27 | 354.04 | 1.92 | 1.11 | 1.00 | 104.88 | 1.25 | 131.44 | 0.291 | No | No | 0.89 |
| 838 | 57.35 | 357.65 | 1.89 | 0.99 | 1.00 | 105.87 | 1.23 | 130.16 | 0.285 | No | No | 0.87 |
| 839 | 57.44 | 356.17 | 1.86 | 0.89 | 1.00 | 105.33 | 1.21 | 127.36 | 0.272 | No | No | 0.83 |
| 840 | 57.50 | 364.37 | 1.83 | 0.81 | 1.00 | 107.70 | 1.18 | 127.07 | 0.271 | No | No | 0.83 |
| 841 | 57.52 | 378.10 | 1.83 | 0.84 | 1.00 | 111.77 | 1.18 | 131.85 | 0.293 | No | No | 0.90 |
| 842 | 57.58 | 409.37 | 1.82 | 0.90 | 1.00 | 121.03 | 1.17 | 141.73 | 0.345 | No | No | 1.06 |
| 843 | 57.63 | 432.08 | 1.81 | 0.95 | 1.00 | 127.73 | 1.17 | 149.17 | 0.389 | No | No | 1.19 |
| 844 | 57.72 | 439.00 | 1.81 | 0.96 | 1.00 | 129.66 | 1.17 | 151.31 | 0.402 | No | No | 1.23 |
| 845 | 57.77 | 433.73 | 1.80 | 0.92 | 1.00 | 128.03 | 1.16 | 148.26 | 0.383 | No | No | 1.18 |
| 846 | 57.82 | 429.55 | 1.78 | 0.84 | 1.00 | 126.71 | 1.13 | 143.29 | 0.354 | No | No | 1.09 |
| 847 | 57.91 | 436.73 | 1.74 | 0.73 | 1.00 | 128.72 | 1.06 | 137.09 | 0.320 | No | No | 0.98 |
| 848 | 57.96 | 442.84 | 1.69 | 0.63 | 1.00 | 130.46 | 1.00 | 130.46 | 0.287 | No | No | 0.88 |
| 849 | 58.02 | 458.90 | 1.66 | 0.57 | 1.00 | 135.16 | 1.00 | 135.16 | 0.310 | No | No | 0.95 |
| 850 | 58.09 | 469.26 | 1.65 | 0.56 | 1.00 | 138.12 | 1.00 | 138.12 | 0.325 | No | No | 1.00 |
| 851 | 58.16 | 484.88 | 1.63 | 0.56 | 1.00 | 142.65 | 1.00 | 142.65 | 0.350 | No | No | 1.08 |
| 852 | 58.25 | 491.12 | 1.64 | 0.58 | 1.00 | 144.36 | 1.00 | 144.36 | 0.360 | No | No | 1.11 |
| 853 | 58.30 | 487.65 | 1.66 | 0.63 | 1.00 | 143.26 | 1.00 | 143.26 | 0.353 | No | No | 1.09 |
| 854 | 58.40 | 479.62 | 1.69 | 0.68 | 1.00 | 140.74 | 1.00 | 140.74 | 0.339 | No | No | 1.04 |
| 855 | 58.50 | 468.52 | 1.71 | 0.72 | 1.00 | 137.31 | 1.02 | 139.77 | 0.334 | No | No | 1.03 |
| 856 | 58.56 | 467.50 | 1.71 | 0.71 | 1.00 | 136.92 | 1.01 | 138.70 | 0.328 | No | No | 1.01 |
| 857 | 58.64 | 464.81 | 1.72 | 0.73 | 1.00 | 136.01 | 1.03 | 140.28 | 0.337 | No | No | 1.04 |
| 858 | 58.73 | 474.79 | 1.73 | 0.77 | 1.00 | 138.81 | 1.05 | 145.16 | 0.364 | No | No | 1.12 |
| 859 | 58.78 | 488.15 | 1.72 | 0.76 | 1.00 | 142.67 | 1.02 | 145.87 | 0.369 | No | No | 1.14 |
| 860 | 58.88 | 506.71 | 1.69 | 0.74 | 1.00 | 147.98 | 1.00 | 147.98 | 0.381 | No | No | 1.18 |
| 861 | 58.97 | 511.03 | 1.66 | 0.67 | 1.00 | 149.10 | 1.00 | 149.10 | 0.388 | No | No | 1.20 |
| 862 | 59.07 | 506.24 | 1.66 | 0.64 | 1.00 | 147.53 | 1.00 | 147.53 | 0.379 | No | No | 1.17 |
| 863 | 59.13 | 493.59 | 1.65 | 0.61 | 1.00 | 143.73 | 1.00 | 143.73 | 0.356 | No | No | 1.10 |
| 864 | 59.23 | 484.71 | 1.65 | 0.59 | 1.00 | 140.99 | 1.00 | 140.99 | 0.341 | No | No | 1.05 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 865 | 59.31 | 464.47 | 1.65 | 0.56 | 1.00 | 134.94 | 1.00 | 134.94 | 0.308 | No | No | 0.95 |
| 866 | 59.38 | 450.35 | 1.65 | 0.54 | 1.00 | 130.71 | 1.00 | 130.71 | 0.288 | No | No | 0.89 |
| 867 | 59.41 | 439.19 | 1.66 | 0.53 | 1.00 | 127.40 | 1.00 | 127.40 | 0.272 | No | No | 0.84 |
| 868 | 59.46 | 443.57 | 1.65 | 0.53 | 1.00 | 128.62 | 1.00 | 128.62 | 0.278 | No | No | 0.86 |
| 869 | 59.51 | 443.56 | 1.65 | 0.52 | 1.00 | 128.55 | 1.00 | 128.55 | 0.278 | No | No | 0.86 |
| 870 | 59.57 | 451.89 | 1.67 | 0.58 | 1.00 | 130.91 | 1.00 | 130.91 | 0.289 | No | No | 0.89 |
| 871 | 59.66 | 471.05 | 1.67 | 0.61 | 1.00 | 136.37 | 1.00 | 136.37 | 0.316 | No | No | 0.98 |
| 872 | 59.75 | 492.31 | 1.70 | 0.71 | 1.00 | 142.44 | 1.00 | 142.44 | 0.349 | No | No | 1.08 |
| 873 | 59.80 | 506.48 | 1.71 | 0.77 | 1.00 | 146.48 | 1.01 | 147.84 | 0.380 | No | No | 1.18 |
| 874 | 59.85 | 508.64 | 1.74 | 0.86 | 1.00 | 147.04 | 1.07 | 156.99 | 0.440 | No | No | 1.36 |
| 875 | 59.91 | 504.22 | 1.75 | 0.88 | 1.00 | 145.65 | 1.08 | 158.02 | 0.447 | No | No | 1.39 |
| 876 | 59.99 | 498.85 | 1.77 | 0.91 | 1.00 | 143.96 | 1.11 | 159.53 | 0.458 | No | No | 1.42 |
| 877 | 60.05 | 480.97 | 1.81 | 1.03 | 1.00 | 138.68 | 1.17 | 161.59 | 0.472 | No | No | 1.47 |
| 878 | 60.09 | 464.78 | 1.85 | 1.12 | 1.00 | 133.92 | 1.20 | 160.52 | 0.465 | No | No | 1.44 |
| 879 | 60.14 | 444.43 | 1.88 | 1.17 | 1.00 | 127.94 | 1.22 | 156.08 | 0.434 | No | No | 1.35 |
| 880 | 60.19 | 437.86 | 1.87 | 1.13 | 1.00 | 125.96 | 1.22 | 153.23 | 0.415 | No | No | 1.29 |
| 881 | 60.22 | 434.25 | 1.87 | 1.11 | 1.00 | 124.88 | 1.21 | 151.55 | 0.404 | No | No | 1.25 |
| 882 | 60.28 | 412.99 | 1.89 | 1.13 | 1.00 | 118.63 | 1.23 | 145.94 | 0.369 | No | No | 1.15 |
| 883 | 60.33 | 381.24 | 1.93 | 1.19 | 1.00 | 109.36 | 1.26 | 137.48 | 0.322 | No | No | 1.00 |
| 884 | 60.38 | 338.97 | 2.00 | 1.32 | 1.00 | 97.07 | 1.31 | 126.83 | 0.270 | No | No | 0.84 |
| 885 | 60.42 | 309.75 | 2.05 | 1.40 | 1.00 | 88.57 | 1.35 | 119.65 | 0.239 | No | No | 0.74 |
| 886 | 60.48 | 282.02 | 2.07 | 1.37 | 1.00 | 80.50 | 1.38 | 111.02 | 0.207 | No | No | 0.64 |
| 887 | 60.57 | 262.48 | 2.05 | 1.17 | 1.00 | 74.78 | 1.36 | 101.50 | 0.177 | No | No | 0.55 |
| 888 | 60.66 | 243.89 | 2.02 | 0.93 | 1.00 | 69.35 | 1.32 | 91.67 | 0.152 | No | No | 0.47 |
| 889 | 60.68 | 232.16 | 1.99 | 0.79 | 1.00 | 65.95 | 1.30 | 85.85 | 0.139 | No | No | 0.43 |
| 890 | 60.69 | 225.51 | 1.98 | 0.72 | 1.00 | 64.02 | 1.29 | 82.84 | 0.133 | No | No | 0.41 |
| 891 | 60.74 | 217.75 | 1.99 | 0.69 | 1.00 | 61.75 | 1.30 | 80.07 | 0.128 | No | No | 0.40 |
| 892 | 60.79 | 206.27 | 2.00 | 0.66 | 1.00 | 58.41 | 1.30 | 76.18 | 0.121 | No | No | 0.38 |
| 893 | 60.84 | 192.16 | 2.02 | 0.64 | 1.00 | 54.32 | 1.32 | 71.82 | 0.114 | No | No | 0.36 |
| 894 | 60.89 | 182.35 | 2.03 | 0.62 | 1.00 | 51.47 | 1.33 | 68.64 | 0.110 | No | No | 0.34 |
| 895 | 60.98 | 174.35 | 2.05 | 0.63 | 1.00 | 49.12 | 1.36 | 66.57 | 0.107 | No | No | 0.33 |
| 896 | 61.03 | 168.07 | 2.13 | 0.84 | 1.00 | 47.30 | 1.46 | 69.19 | 0.111 | No | No | 0.35 |
| 897 | 61.08 | 164.86 | 2.24 | 1.28 | 1.00 | 46.35 | 1.72 | 79.69 | 0.127 | No | No | 0.40 |
| 898 | 61.18 | 164.63 | 2.31 | 1.64 | 1.00 | 46.24 | 1.95 | 90.12 | 0.148 | No | No | 0.46 |
| 899 | 61.23 | 168.20 | 2.35 | 1.96 | 1.00 | 47.23 | 2.12 | 100.04 | 0.173 | No | No | 0.54 |
| 900 | 61.31 | 194.08 | 2.24 | 1.58 | 1.00 | 54.62 | 1.72 | 94.03 | 0.157 | No | No | 0.49 |
| 901 | 61.42 | 236.42 | 2.09 | 1.19 | 1.00 | 66.70 | 1.41 | 94.11 | 0.158 | No | No | 0.49 |
| 902 | 61.47 | 287.17 | 1.90 | 0.74 | 1.00 | 81.21 | 1.24 | 100.64 | 0.175 | No | No | 0.55 |
| 903 | 61.51 | 331.30 | 1.79 | 0.58 | 1.00 | 93.81 | 1.14 | 107.25 | 0.195 | No | No | 0.61 |
| 904 | 61.54 | 366.14 | 1.73 | 0.52 | 1.00 | 103.76 | 1.05 | 108.54 | 0.199 | No | No | 0.62 |
| 905 | 61.57 | 395.83 | 1.70 | 0.53 | 1.00 | 112.23 | 1.00 | 112.23 | 0.211 | No | No | 0.66 |
| 906 | 61.58 | 418.64 | 1.67 | 0.50 | 1.00 | 118.74 | 1.00 | 118.74 | 0.236 | No | No | 0.74 |
| 907 | 61.61 | 393.43 | 1.70 | 0.50 | 1.00 | 111.49 | 1.00 | 111.49 | 0.209 | No | No | 0.65 |
| 908 | 61.63 | 367.65 | 1.72 | 0.50 | 1.00 | 104.10 | 1.03 | 107.07 | 0.194 | No | No | 0.61 |
| 909 | 61.63 | 257.89 | 1.94 | 0.73 | 1.00 | 72.70 | 1.26 | 91.77 | 0.152 | No | No | 0.47 |
| 910 | 61.66 | 191.36 | 2.14 | 1.04 | 1.00 | 53.66 | 1.48 | 79.27 | 0.126 | No | No | 0.39 |
| 911 | 61.67 | 129.55 | 2.40 | 1.69 | 1.00 | 35.97 | 2.37 | 85.35 | 0.138 | No | No | 0.43 |
| 912 | 61.70 | 152.96 | 2.31 | 1.50 | 1.00 | 42.66 | 1.96 | 83.80 | 0.135 | No | No | 0.42 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 913 | 61.71 | 180.90 | 2.22 | 1.34 | 1.00 | 50.64 | 1.67 | 84.55 | 0.136 | No | No | 0.43 |
| 914 | 61.76 | 206.41 | 2.15 | 1.24 | 1.00 | 57.90 | 1.51 | 87.45 | 0.142 | No | No | 0.44 |
| 915 | 61.80 | 228.84 | 2.10 | 1.15 | 1.00 | 64.28 | 1.42 | 91.10 | 0.150 | No | No | 0.47 |
| 916 | 61.84 | 250.40 | 2.03 | 1.01 | 1.00 | 70.41 | 1.34 | 94.04 | 0.157 | No | No | 0.49 |
| 917 | 61.86 | 279.75 | 1.93 | 0.78 | 1.00 | 78.77 | 1.26 | 98.87 | 0.170 | No | No | 0.53 |
| 918 | 61.93 | 312.34 | 1.82 | 0.60 | 1.00 | 88.02 | 1.18 | 103.69 | 0.184 | No | No | 0.57 |
| 919 | 61.98 | 357.76 | 1.73 | 0.50 | 1.00 | 100.92 | 1.00 | 100.92 | 0.176 | No | No | 0.55 |
| 920 | 62.04 | 405.56 | 1.68 | 0.50 | 1.00 | 114.48 | 1.00 | 114.48 | 0.220 | No | No | 0.69 |
| 921 | 62.09 | 451.78 | 1.64 | 0.49 | 1.00 | 127.59 | 1.00 | 127.59 | 0.273 | No | No | 0.86 |
| 922 | 62.14 | 481.91 | 1.62 | 0.49 | 1.00 | 136.10 | 1.00 | 136.10 | 0.314 | No | No | 0.98 |
| 923 | 62.19 | 499.12 | 1.60 | 0.47 | 1.00 | 140.93 | 1.00 | 140.93 | 0.340 | No | No | 1.07 |
| 924 | 62.24 | 508.93 | 1.59 | 0.47 | 1.00 | 143.65 | 1.00 | 143.65 | 0.356 | No | No | 1.11 |
| 925 | 62.26 | 519.32 | 1.58 | 0.47 | 1.00 | 146.58 | 1.00 | 146.58 | 0.373 | No | No | 1.17 |
| 926 | 62.29 | 519.05 | 1.58 | 0.47 | 1.00 | 146.46 | 1.00 | 146.46 | 0.372 | No | No | 1.17 |
| 927 | 62.38 | 515.71 | 1.60 | 0.51 | 1.00 | 145.37 | 1.00 | 145.37 | 0.366 | No | No | 1.15 |
| 928 | 62.44 | 490.28 | 1.65 | 0.57 | 1.00 | 138.07 | 1.00 | 138.07 | 0.325 | No | No | 1.02 |
| 929 | 62.46 | 469.07 | 1.69 | 0.62 | 1.00 | 132.02 | 1.00 | 132.02 | 0.294 | No | No | 0.92 |
| 930 | 62.47 | 448.15 | 1.70 | 0.62 | 1.00 | 126.07 | 1.00 | 126.07 | 0.266 | No | No | 0.84 |
| 931 | 62.51 | 453.68 | 1.69 | 0.61 | 1.00 | 127.59 | 1.00 | 127.59 | 0.273 | No | No | 0.86 |
| 932 | 62.56 | 463.98 | 1.69 | 0.61 | 1.00 | 130.45 | 1.00 | 130.45 | 0.286 | No | No | 0.90 |
| 933 | 62.60 | 477.62 | 1.68 | 0.62 | 1.00 | 134.26 | 1.00 | 134.26 | 0.305 | No | No | 0.96 |
| 934 | 62.65 | 481.73 | 1.68 | 0.62 | 1.00 | 135.35 | 1.00 | 135.35 | 0.311 | No | No | 0.97 |
| 935 | 62.70 | 482.34 | 1.66 | 0.58 | 1.00 | 135.46 | 1.00 | 135.46 | 0.311 | No | No | 0.98 |
| 936 | 62.75 | 483.05 | 1.65 | 0.56 | 1.00 | 135.59 | 1.00 | 135.59 | 0.312 | No | No | 0.98 |
| 937 | 62.80 | 494.83 | 1.64 | 0.55 | 1.00 | 138.85 | 1.00 | 138.85 | 0.329 | No | No | 1.03 |
| 938 | 62.85 | 525.29 | 1.60 | 0.52 | 1.00 | 147.40 | 1.00 | 147.40 | 0.378 | No | No | 1.19 |
| 939 | 62.89 | 569.18 | 1.56 | 0.50 | 1.00 | 159.73 | 1.00 | 159.73 | 0.459 | No | No | 1.44 |
| 940 | 62.97 | 619.66 | 1.54 | 0.51 | 1.00 | 173.86 | 1.00 | 173.86 | 0.569 | No | No | 1.79 |
| 941 | 63.04 | 667.84 | 1.52 | 0.52 | 1.00 | 187.32 | 1.00 | 187.32 | 0.691 | No | No | 2.00 |
| 942 | 63.09 | 703.12 | 1.50 | 0.52 | 1.00 | 197.18 | 1.00 | 197.18 | 0.793 | No | No | 2.00 |
| 943 | 63.13 | 715.51 | 1.51 | 0.54 | 1.00 | 200.57 | 1.00 | 200.57 | 4.000 | No | No | 2.00 |
| 944 | 63.19 | 716.52 | 1.54 | 0.60 | 1.00 | 200.74 | 1.00 | 200.74 | 4.000 | No | No | 2.00 |
| 945 | 63.23 | 720.23 | 1.57 | 0.67 | 1.00 | 201.69 | 1.00 | 201.69 | 4.000 | No | No | 2.00 |
| 946 | 63.28 | 726.78 | 1.59 | 0.73 | 1.00 | 203.42 | 1.00 | 203.42 | 4.000 | No | No | 2.00 |
| 947 | 63.32 | 729.18 | 1.57 | 0.68 | 1.00 | 204.02 | 1.00 | 204.02 | 4.000 | No | No | 2.00 |
| 948 | 63.38 | 725.67 | 1.49 | 0.51 | 1.00 | 202.89 | 1.00 | 202.89 | 4.000 | No | No | 2.00 |
| 949 | 63.44 | 726.68 | 1.43 | 0.41 | 1.00 | 203.06 | 1.00 | 203.06 | 4.000 | No | No | 2.00 |
| 950 | 63.52 | 715.48 | 1.43 | 0.40 | 1.00 | 199.75 | 1.00 | 199.75 | 0.821 | No | No | 2.00 |
| 951 | 63.57 | 697.37 | 1.49 | 0.49 | 1.00 | 194.57 | 1.00 | 194.57 | 0.765 | No | No | 2.00 |
| 952 | 63.66 | 659.58 | 1.52 | 0.51 | 1.00 | 183.79 | 1.00 | 183.79 | 0.657 | No | No | 2.00 |
| 953 | 63.73 | 534.95 | 1.63 | 0.58 | 1.00 | 148.76 | 1.00 | 148.76 | 0.386 | No | No | 1.22 |
| 954 | 63.76 | 455.61 | 1.72 | 0.67 | 1.00 | 126.50 | 1.03 | 130.54 | 0.287 | No | No | 0.90 |
| 955 | 63.76 | 411.85 | 1.77 | 0.71 | 1.00 | 114.24 | 1.12 | 127.66 | 0.274 | No | No | 0.86 |
| 956 | 63.78 | 471.87 | 1.70 | 0.64 | 1.00 | 131.02 | 1.00 | 131.02 | 0.289 | No | No | 0.91 |
| 957 | 63.81 | 512.86 | 1.67 | 0.65 | 1.00 | 142.46 | 1.00 | 142.46 | 0.349 | No | No | 1.10 |
| 958 | 63.85 | 526.43 | 1.68 | 0.68 | 1.00 | 146.19 | 1.00 | 146.19 | 0.371 | No | No | 1.17 |
| 959 | 63.86 | 522.58 | 1.70 | 0.74 | 1.00 | 145.10 | 1.00 | 145.10 | 0.364 | No | No | 1.15 |
| 960 | 63.91 | 497.92 | 1.74 | 0.81 | 1.00 | 138.14 | 1.07 | 148.35 | 0.384 | No | No | 1.21 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 961 | 63.94 | 483.78 | 1.77 | 0.87 | 1.00 | 134.14 | 1.12 | 150.35 | 0.396 | No | No | 1.25 |
| 962 | 63.95 | 480.34 | 1.79 | 0.90 | 1.00 | 133.15 | 1.14 | 151.38 | 0.403 | No | No | 1.27 |
| 963 | 64.00 | 476.26 | 1.79 | 0.91 | 1.00 | 131.94 | 1.14 | 150.67 | 0.398 | No | No | 1.26 |
| 964 | 64.02 | 473.22 | 1.79 | 0.89 | 1.00 | 131.08 | 1.14 | 149.37 | 0.390 | No | No | 1.23 |
| 965 | 64.05 | 475.78 | 1.78 | 0.86 | 1.00 | 131.75 | 1.12 | 148.02 | 0.382 | No | No | 1.20 |
| 966 | 64.09 | 478.18 | 1.77 | 0.83 | 1.00 | 132.36 | 1.11 | 146.64 | 0.373 | No | No | 1.18 |
| 967 | 64.11 | 480.07 | 1.75 | 0.80 | 1.00 | 132.86 | 1.09 | 144.77 | 0.362 | No | No | 1.14 |
| 968 | 64.15 | 482.26 | 1.74 | 0.77 | 1.00 | 133.43 | 1.07 | 142.44 | 0.349 | No | No | 1.10 |
| 969 | 64.20 | 494.31 | 1.72 | 0.74 | 1.00 | 136.71 | 1.03 | 141.24 | 0.342 | No | No | 1.08 |
| 970 | 64.25 | 512.59 | 1.70 | 0.72 | 1.00 | 141.74 | 1.00 | 141.74 | 0.345 | No | No | 1.09 |
| 971 | 64.29 | 535.70 | 1.68 | 0.70 | 1.00 | 148.11 | 1.00 | 148.11 | 0.382 | No | No | 1.21 |
| 972 | 64.34 | 570.38 | 1.64 | 0.65 | 1.00 | 157.68 | 1.00 | 157.68 | 0.445 | No | No | 1.40 |
| 973 | 64.43 | 605.81 | 1.60 | 0.60 | 1.00 | 167.40 | 1.00 | 167.40 | 0.516 | No | No | 1.63 |
| 974 | 64.48 | 630.95 | 1.56 | 0.56 | 1.00 | 174.30 | 1.00 | 174.30 | 0.572 | No | No | 1.81 |
| 975 | 64.53 | 642.69 | 1.53 | 0.51 | 1.00 | 177.47 | 1.00 | 177.47 | 0.600 | No | No | 1.90 |
| 976 | 64.58 | 655.07 | 1.52 | 0.49 | 1.00 | 180.82 | 1.00 | 180.82 | 0.630 | No | No | 1.99 |
| 977 | 64.63 | 680.65 | 1.51 | 0.49 | 1.00 | 187.83 | 1.00 | 187.83 | 0.696 | No | No | 2.00 |
| 978 | 64.68 | 709.63 | 1.52 | 0.55 | 1.00 | 195.77 | 1.00 | 195.77 | 0.778 | No | No | 2.00 |
| 979 | 64.73 | 718.74 | 1.53 | 0.57 | 1.00 | 198.20 | 1.00 | 198.20 | 0.804 | No | No | 2.00 |
| 980 | 64.77 | 735.60 | 1.51 | 0.56 | 1.00 | 202.79 | 1.00 | 202.79 | 4.000 | No | No | 2.00 |
| 981 | 64.82 | 751.19 | 1.48 | 0.51 | 1.00 | 207.01 | 1.00 | 207.01 | 4.000 | No | No | 2.00 |
| 982 | 64.87 | 732.64 | 1.49 | 0.51 | 1.00 | 201.76 | 1.00 | 201.76 | 4.000 | No | No | 2.00 |
| 983 | 64.89 | 713.98 | 1.50 | 0.52 | 1.00 | 196.56 | 1.00 | 196.56 | 0.786 | No | No | 2.00 |
| 984 | 64.93 | 689.59 | 1.53 | 0.54 | 1.00 | 189.73 | 1.00 | 189.73 | 0.715 | No | No | 2.00 |
| 985 | 64.94 | 715.81 | 1.51 | 0.53 | 1.00 | 196.96 | 1.00 | 196.96 | 0.791 | No | No | 2.00 |
| 986 | 64.98 | 725.69 | 1.50 | 0.53 | 1.00 | 199.62 | 1.00 | 199.62 | 0.820 | No | No | 2.00 |
| 987 | 64.99 | 734.03 | 1.50 | 0.52 | 1.00 | 201.90 | 1.00 | 201.90 | 4.000 | No | No | 2.00 |
| 988 | 65.03 | 732.37 | 1.50 | 0.52 | 1.00 | 201.35 | 1.00 | 201.35 | 4.000 | No | No | 2.00 |
| 989 | 65.08 | 727.04 | 1.49 | 0.50 | 1.00 | 199.79 | 1.00 | 199.79 | 0.822 | No | No | 2.00 |
| 990 | 65.13 | 715.51 | 1.48 | 0.47 | 1.00 | 196.50 | 1.00 | 196.50 | 0.786 | No | No | 2.00 |
| 991 | 65.17 | 703.60 | 1.46 | 0.43 | 1.00 | 193.13 | 1.00 | 193.13 | 0.750 | No | No | 2.00 |
| 992 | 65.22 | 689.29 | 1.45 | 0.41 | 1.00 | 189.08 | 1.00 | 189.08 | 0.709 | No | No | 2.00 |
| 993 | 65.23 | 681.55 | 1.45 | 0.40 | 1.00 | 186.93 | 1.00 | 186.93 | 0.687 | No | No | 2.00 |
| 994 | 65.28 | 679.28 | 1.46 | 0.40 | 1.00 | 186.22 | 1.00 | 186.22 | 0.681 | No | No | 2.00 |
| 995 | 65.32 | 679.65 | 1.47 | 0.43 | 1.00 | 186.24 | 1.00 | 186.24 | 0.681 | No | No | 2.00 |
| 996 | 65.37 | 680.17 | 1.49 | 0.45 | 1.00 | 186.30 | 1.00 | 186.30 | 0.681 | No | No | 2.00 |
| 997 | 65.42 | 684.61 | 1.50 | 0.48 | 1.00 | 187.42 | 1.00 | 187.42 | 0.692 | No | No | 2.00 |
| 998 | 65.47 | 671.65 | 1.50 | 0.48 | 1.00 | 183.76 | 1.00 | 183.76 | 0.657 | No | No | 2.00 |
| 999 | 65.48 | 657.21 | 1.52 | 0.49 | 1.00 | 179.77 | 1.00 | 179.77 | 0.620 | No | No | 1.97 |
| 1000 | 65.49 | 638.86 | 1.52 | 0.48 | 1.00 | 174.70 | 1.00 | 174.70 | 0.576 | No | No | 1.83 |
| 1001 | 65.52 | 636.56 | 1.52 | 0.47 | 1.00 | 174.01 | 1.00 | 174.01 | 0.570 | No | No | 1.81 |
| 1002 | 65.57 | 645.67 | 1.41 | 0.30 | 1.00 | 176.43 | 1.00 | 176.43 | 0.591 | No | No | 1.88 |
| 1003 | 65.62 | 661.16 | 1.28 | 0.15 | 1.00 | 180.61 | 1.00 | 180.61 | 0.628 | No | No | 1.99 |
| 1004 | 65.67 | 682.44 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1005 | 65.69 | 697.23 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1006 | 65.72 | 719.02 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1007 | 65.77 | 752.26 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1008 | 65.82 | 790.78 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1009 | 65.86 | 811.97 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1010 | 65.86 | 833.63 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1011 | 65.91 | 854.04 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1012 | 65.96 | 878.41 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |

**Abbreviations**

Depth: Depth from free surface, at which CPT was performed (ft)
$q_t$: Total cone resistance
$I_c$: Soil behavior type index
Fr: Normalized friction ratio (%)
n: Stress exponent
$Q_{tn}$: Normalized cone resistance
$K_c$: Cone resistance correction factor due to fines
$Q_{tn,cs}$: Normalized and adjusted cone resistance
$CRR_{7.5}$: Cyclic resistance ratio for $M_w$=7.5
FS: Factor of safety against soil liquefaction

**:: Liquefaction Potential Index calculation data ::**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.01 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.04 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 0.08 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.10 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 0.13 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 0.18 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 0.22 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.27 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 0.33 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.36 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 0.37 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.38 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 0.42 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.44 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 0.47 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 0.47 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 0.52 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.56 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 0.58 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.61 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 0.66 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.76 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 0.80 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.81 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 0.85 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.86 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 0.90 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.95 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 1.00 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 1.05 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 1.14 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 1.24 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 1.31 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 1.36 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 1.37 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 1.39 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 1.43 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 1.44 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 1.49 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 1.53 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 1.58 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 1.63 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 1.68 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 1.72 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 1.77 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 1.82 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 1.86 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 1.92 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 1.97 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 2.01 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 2.09 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 2.16 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 2.20 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 2.25 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 2.31 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 2.37 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 2.40 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 2.46 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 2.54 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 2.59 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 2.69 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 2.74 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 2.83 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 2.88 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 2.98 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 3.03 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 3.12 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 3.21 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 3.27 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 3.34 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 3.41 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 3.51 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 3.55 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 3.65 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 3.75 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 3.83 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 3.94 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 4.04 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 4.13 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 4.24 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 4.38 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 4.50 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 |
| 4.62 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 | 4.71 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 4.75 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 4.84 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 4.89 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 4.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 4.98 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 5.07 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 5.13 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 5.17 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 5.27 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 5.32 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 5.42 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 5.46 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.56 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 5.61 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 5.71 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 5.78 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 5.85 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 5.95 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 6.00 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 6.09 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 6.14 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 6.24 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 6.30 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 6.38 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 6.46 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 6.50 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 6.56 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 6.63 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 6.68 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 6.76 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 6.82 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 6.88 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 6.96 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 7.03 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 7.11 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 7.16 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 7.26 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 7.31 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 7.40 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 7.45 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 7.54 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 7.60 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 7.68 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 7.74 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 7.83 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 7.90 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 7.98 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 8.05 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 8.12 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 8.19 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 8.27 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 8.36 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 8.41 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 8.50 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 8.60 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 8.70 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 8.74 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 8.78 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 8.81 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 8.86 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 8.91 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 8.94 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 9.02 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 9.10 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 9.17 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 9.22 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 9.31 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 9.37 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 9.42 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 9.52 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 9.60 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 9.66 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 9.74 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 9.81 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 9.89 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 9.98 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 10.03 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 10.13 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 10.23 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 10.32 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 10.38 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 10.47 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 10.57 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 10.66 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 10.76 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 10.85 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 10.92 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 11.00 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 11.07 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 11.10 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 11.15 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 11.19 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 11.24 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 11.29 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 11.34 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 11.40 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 11.47 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 11.53 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 11.58 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 11.65 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 11.72 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 11.77 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 11.82 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 11.88 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 11.97 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 12.02 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 12.06 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 12.11 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12.21 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 12.25 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 12.30 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 12.31 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 12.32 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 12.35 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 12.40 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 12.45 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 12.52 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 12.56 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 12.62 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 12.65 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 12.71 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 12.76 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 12.83 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 12.88 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 12.93 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 12.98 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 13.03 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 13.04 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 13.07 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 13.13 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 13.17 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 13.22 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 13.27 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 13.32 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 13.37 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 13.41 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 13.46 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 13.51 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 13.56 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 13.60 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 13.66 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 13.75 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 13.80 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 13.89 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 13.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 13.99 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 14.09 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 14.14 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 14.23 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 14.28 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 14.38 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 14.42 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 14.52 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 14.57 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 14.67 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 14.68 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 14.70 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 14.75 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 14.80 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 14.89 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 14.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 15.04 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 15.13 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 15.21 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 15.28 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 15.38 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 15.47 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 15.57 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 15.67 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 15.77 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 15.86 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 15.96 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 16.05 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 16.15 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 16.25 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 16.31 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 16.39 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 16.48 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 16.59 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 16.68 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 16.76 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 16.86 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 16.92 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 17.02 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 17.11 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 17.22 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 17.35 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 17.45 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 17.55 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 17.61 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 17.64 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 17.70 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 17.75 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 17.80 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 17.85 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 17.94 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 17.99 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 18.09 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 18.15 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 18.23 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 18.33 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 18.43 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 18.52 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 18.59 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 18.72 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 18.81 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 18.87 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 18.95 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 19.05 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 19.14 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 19.22 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 19.29 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 19.38 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 19.44 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 19.53 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 19.62 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 19.69 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 19.79 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 19.86 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 19.97 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 20.07 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 20.16 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 20.26 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 20.34 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 20.43 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 20.50 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 20.60 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 20.62 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 20.63 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 20.68 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 20.73 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 20.82 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 20.87 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 20.91 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 20.96 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 21.05 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 21.11 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 21.17 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 21.25 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 21.30 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 21.37 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 21.45 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 21.49 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 21.58 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 21.64 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 21.69 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 21.78 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 21.83 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 21.89 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 21.98 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 22.03 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 22.12 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 22.22 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 22.26 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.36 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 22.41 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.51 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 22.60 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 22.70 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 22.75 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.84 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 22.89 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.90 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 22.94 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 23.00 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 23.08 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 23.13 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 23.20 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 23.27 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 23.33 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 23.42 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 23.48 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 23.57 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 23.61 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 23.66 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 23.73 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 23.80 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 23.85 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 23.94 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 24.00 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 24.09 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 24.16 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 24.24 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 24.33 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 24.43 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 24.52 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 24.58 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 24.59 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 24.63 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 24.68 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 24.77 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 24.82 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 24.92 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 25.01 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 25.06 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 25.16 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 25.25 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 25.30 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 25.41 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 25.49 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 25.55 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 25.64 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 25.70 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 25.79 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 25.89 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 25.94 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 26.02 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 26.12 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 26.17 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 26.28 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 26.36 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 26.45 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 26.50 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 26.61 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 26.70 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 26.77 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 26.85 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 26.94 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 27.04 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 27.14 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 27.23 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 27.28 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 27.29 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 27.38 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 27.48 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 27.57 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 27.64 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 27.65 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 27.74 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 27.80 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 27.90 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 27.99 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 28.07 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 28.16 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 28.25 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 28.34 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 28.44 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 28.53 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 28.62 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 28.76 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 28.86 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 28.96 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 29.08 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 29.19 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 |
| 29.29 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 29.39 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 29.50 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 29.63 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 |
| 29.65 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 29.66 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 29.72 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 29.80 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 29.85 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 29.94 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 30.00 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 30.05 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 30.14 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 30.19 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 30.24 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 30.29 | 1.14 | 0.00 | 0.00 | 0.05 | 0.00 |
| 30.38 | 1.12 | 0.00 | 0.00 | 0.09 | 0.00 | 30.43 | 1.09 | 0.00 | 0.00 | 0.05 | 0.00 |
| 30.48 | 1.05 | 0.00 | 0.00 | 0.05 | 0.00 | 30.54 | 1.02 | 0.00 | 0.00 | 0.06 | 0.00 |
| 30.62 | 1.00 | 0.00 | 0.00 | 0.08 | 0.00 | 30.67 | 0.99 | 0.01 | 90006887.17 | 0.05 | 0.00 |
| 30.72 | 0.99 | 0.01 | 161806562 5614.33 | 0.05 | 0.00 | 30.76 | 1.00 | 0.00 | 811703898 | 0.04 | 0.00 |
| 30.86 | 1.01 | 0.00 | 0.00 | 0.10 | 0.00 | 30.91 | 1.03 | 0.00 | 0.00 | 0.05 | 0.00 |
| 30.95 | 1.06 | 0.00 | 0.00 | 0.05 | 0.00 | 31.03 | 1.09 | 0.00 | 0.00 | 0.07 | 0.00 |
| 31.10 | 1.12 | 0.00 | 0.00 | 0.07 | 0.00 | 31.15 | 1.15 | 0.00 | 0.00 | 0.05 | 0.00 |
| 31.20 | 1.19 | 0.00 | 0.00 | 0.05 | 0.00 | 31.26 | 1.22 | 0.00 | 0.00 | 0.06 | 0.00 |
| 31.34 | 1.21 | 0.00 | 0.00 | 0.08 | 0.00 | 31.37 | 1.20 | 0.00 | 0.00 | 0.02 | 0.00 |
| 31.38 | 1.18 | 0.00 | 0.00 | 0.01 | 0.00 | 31.43 | 1.19 | 0.00 | 0.00 | 0.05 | 0.00 |
| 31.47 | 1.13 | 0.00 | 0.00 | 0.05 | 0.00 | 31.55 | 1.06 | 0.00 | 0.00 | 0.07 | 0.00 |
| 31.59 | 0.95 | 0.05 | 66.65 | 0.05 | 0.00 | 31.66 | 0.83 | 0.17 | 2.22 | 0.06 | 0.02 |
| 31.73 | 0.73 | 0.27 | 1.05 | 0.08 | 0.03 | 31.78 | 0.65 | 0.35 | 0.76 | 0.05 | 0.03 |
| 31.84 | 0.61 | 0.39 | 0.65 | 0.06 | 0.04 | 31.93 | 0.60 | 0.40 | 0.62 | 0.09 | 0.06 |
| 31.98 | 0.61 | 0.39 | 0.64 | 0.05 | 0.03 | 32.02 | 0.64 | 0.36 | 0.71 | 0.05 | 0.03 |
| 32.09 | 0.67 | 0.33 | 0.80 | 0.07 | 0.03 | 32.16 | 0.69 | 0.31 | 0.87 | 0.07 | 0.03 |
| 32.22 | 0.70 | 0.30 | 0.90 | 0.05 | 0.03 | 32.27 | 0.70 | 0.30 | 0.90 | 0.05 | 0.02 |
| 32.34 | 0.69 | 0.31 | 0.89 | 0.07 | 0.03 | 32.42 | 0.69 | 0.31 | 0.88 | 0.08 | 0.04 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 32.46 | 0.68 | 0.32 | 0.86 | 0.04 | 0.02 | 32.54 | 0.68 | 0.32 | 0.84 | 0.09 | 0.04 |
| 32.60 | 0.66 | 0.34 | 0.79 | 0.06 | 0.03 | 32.67 | 0.66 | 0.34 | 0.77 | 0.07 | 0.03 |
| 32.75 | 0.66 | 0.34 | 0.78 | 0.08 | 0.04 | 32.81 | 0.68 | 0.32 | 0.86 | 0.06 | 0.03 |
| 32.89 | 0.71 | 0.29 | 0.96 | 0.08 | 0.04 | 32.94 | 0.69 | 0.31 | 0.89 | 0.05 | 0.02 |
| 32.95 | 0.71 | 0.29 | 0.95 | 0.01 | 0.00 | 33.00 | 0.72 | 0.28 | 1.04 | 0.05 | 0.02 |
| 33.06 | 0.79 | 0.21 | 1.49 | 0.06 | 0.02 | 33.11 | 0.80 | 0.20 | 1.68 | 0.05 | 0.01 |
| 33.20 | 0.80 | 0.20 | 1.65 | 0.09 | 0.03 | 33.25 | 0.79 | 0.21 | 1.56 | 0.05 | 0.02 |
| 33.34 | 0.78 | 0.22 | 1.47 | 0.09 | 0.03 | 33.38 | 0.79 | 0.21 | 1.49 | 0.04 | 0.01 |
| 33.48 | 0.80 | 0.20 | 1.65 | 0.10 | 0.03 | 33.58 | 0.83 | 0.17 | 2.07 | 0.10 | 0.03 |
| 33.63 | 0.87 | 0.13 | 3.40 | 0.04 | 0.01 | 33.73 | 0.92 | 0.08 | 9.37 | 0.10 | 0.01 |
| 33.82 | 0.98 | 0.02 | 7362.55 | 0.09 | 0.00 | 33.87 | 1.05 | 0.00 | 0.00 | 0.05 | 0.00 |
| 33.96 | 1.13 | 0.00 | 0.00 | 0.09 | 0.00 | 34.02 | 1.23 | 0.00 | 0.00 | 0.06 | 0.00 |
| 34.11 | 1.37 | 0.00 | 0.00 | 0.09 | 0.00 | 34.18 | 1.54 | 0.00 | 0.00 | 0.07 | 0.00 |
| 34.26 | 1.72 | 0.00 | 0.00 | 0.08 | 0.00 | 34.35 | 1.91 | 0.00 | 0.00 | 0.09 | 0.00 |
| 34.44 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 34.49 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 34.59 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 34.69 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 34.76 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 34.83 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 34.93 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 35.02 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 35.12 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 35.22 | 1.94 | 0.00 | 0.00 | 0.10 | 0.00 |
| 35.30 | 1.83 | 0.00 | 0.00 | 0.08 | 0.00 | 35.38 | 1.60 | 0.00 | 0.00 | 0.08 | 0.00 |
| 35.43 | 1.44 | 0.00 | 0.00 | 0.04 | 0.00 | 35.46 | 1.32 | 0.00 | 0.00 | 0.04 | 0.00 |
| 35.51 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 35.56 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 35.66 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 35.70 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 35.80 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 35.89 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 35.96 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 36.04 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 36.14 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 36.19 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 36.28 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 36.33 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 36.42 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 36.48 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 36.52 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 36.62 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 36.68 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 36.77 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 36.86 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 36.90 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 37.00 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 37.10 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 37.20 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 37.29 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 37.39 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 37.49 | 1.28 | 0.00 | 0.00 | 0.10 | 0.00 |
| 37.53 | 1.39 | 0.00 | 0.00 | 0.05 | 0.00 | 37.58 | 1.51 | 0.00 | 0.00 | 0.04 | 0.00 |
| 37.62 | 1.60 | 0.00 | 0.00 | 0.05 | 0.00 | 37.69 | 1.74 | 0.00 | 0.00 | 0.07 | 0.00 |
| 37.77 | 1.86 | 0.00 | 0.00 | 0.08 | 0.00 | 37.82 | 1.96 | 0.00 | 0.00 | 0.05 | 0.00 |
| 37.87 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 37.91 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 37.97 | 1.95 | 0.00 | 0.00 | 0.06 | 0.00 | 38.06 | 1.85 | 0.00 | 0.00 | 0.09 | 0.00 |
| 38.10 | 1.75 | 0.00 | 0.00 | 0.04 | 0.00 | 38.17 | 1.67 | 0.00 | 0.00 | 0.07 | 0.00 |
| 38.25 | 1.60 | 0.00 | 0.00 | 0.08 | 0.00 | 38.35 | 1.54 | 0.00 | 0.00 | 0.09 | 0.00 |
| 38.40 | 1.48 | 0.00 | 0.00 | 0.05 | 0.00 | 38.46 | 1.45 | 0.00 | 0.00 | 0.06 | 0.00 |
| 38.54 | 1.43 | 0.00 | 0.00 | 0.08 | 0.00 | 38.60 | 1.41 | 0.00 | 0.00 | 0.06 | 0.00 |
| 38.69 | 1.41 | 0.00 | 0.00 | 0.08 | 0.00 | 38.74 | 1.43 | 0.00 | 0.00 | 0.05 | 0.00 |
| 38.83 | 1.46 | 0.00 | 0.00 | 0.09 | 0.00 | 38.88 | 1.45 | 0.00 | 0.00 | 0.05 | 0.00 |
| 38.97 | 1.43 | 0.00 | 0.00 | 0.09 | 0.00 | 39.02 | 1.38 | 0.00 | 0.00 | 0.05 | 0.00 |
| 39.11 | 1.34 | 0.00 | 0.00 | 0.09 | 0.00 | 39.16 | 1.27 | 0.00 | 0.00 | 0.06 | 0.00 |
| 39.23 | 1.14 | 0.00 | 0.00 | 0.06 | 0.00 | 39.24 | 1.08 | 0.00 | 0.00 | 0.01 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 39.28 | 1.05 | 0.00 | 0.00 | 0.04 | 0.00 | 39.32 | 1.07 | 0.00 | 0.00 | 0.05 | 0.00 |
| 39.39 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 39.47 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 39.54 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 39.62 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 39.71 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 39.76 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 39.85 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 39.90 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 40.00 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 40.06 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 40.15 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 40.21 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 40.29 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 40.35 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 40.43 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 40.52 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 40.58 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 40.67 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 40.77 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 40.84 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 40.89 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 40.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 41.03 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 41.08 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 41.14 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 41.22 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 41.28 | 0.45 | 0.55 | 0.42 | 0.06 | 0.03 | 41.33 | 0.46 | 0.54 | 0.44 | 0.05 | 0.03 |
| 41.42 | 0.49 | 0.51 | 0.46 | 0.09 | 0.05 | 41.47 | 0.52 | 0.48 | 0.50 | 0.05 | 0.03 |
| 41.52 | 0.55 | 0.45 | 0.54 | 0.06 | 0.03 | 41.62 | 0.58 | 0.42 | 0.60 | 0.09 | 0.04 |
| 41.67 | 0.63 | 0.37 | 0.70 | 0.05 | 0.02 | 41.76 | 0.69 | 0.31 | 0.88 | 0.09 | 0.03 |
| 41.82 | 0.76 | 0.24 | 1.23 | 0.06 | 0.02 | 41.90 | 0.81 | 0.19 | 1.83 | 0.08 | 0.02 |
| 41.99 | 0.85 | 0.15 | 2.80 | 0.09 | 0.01 | 42.05 | 0.88 | 0.12 | 3.80 | 0.06 | 0.01 |
| 42.15 | 0.88 | 0.12 | 3.96 | 0.10 | 0.01 | 42.23 | 0.87 | 0.13 | 3.38 | 0.09 | 0.01 |
| 42.30 | 0.85 | 0.15 | 2.55 | 0.07 | 0.01 | 42.38 | 0.81 | 0.19 | 1.79 | 0.08 | 0.02 |
| 42.48 | 0.75 | 0.25 | 1.21 | 0.10 | 0.03 | 42.57 | 0.70 | 0.30 | 0.92 | 0.09 | 0.03 |
| 42.64 | 0.66 | 0.34 | 0.76 | 0.07 | 0.02 | 42.72 | 0.62 | 0.38 | 0.67 | 0.08 | 0.03 |
| 42.82 | 0.58 | 0.42 | 0.60 | 0.10 | 0.04 | 42.90 | 0.56 | 0.44 | 0.55 | 0.08 | 0.04 |
| 42.97 | 0.55 | 0.45 | 0.54 | 0.07 | 0.03 | 43.06 | 0.55 | 0.45 | 0.54 | 0.09 | 0.04 |
| 43.15 | 0.53 | 0.47 | 0.52 | 0.09 | 0.05 | 43.20 | 0.51 | 0.49 | 0.49 | 0.05 | 0.03 |
| 43.30 | 0.48 | 0.52 | 0.45 | 0.10 | 0.05 | 43.40 | 0.49 | 0.51 | 0.46 | 0.10 | 0.05 |
| 43.48 | 0.52 | 0.48 | 0.50 | 0.08 | 0.04 | 43.51 | 0.54 | 0.46 | 0.53 | 0.03 | 0.02 |
| 43.52 | 0.57 | 0.43 | 0.58 | 0.01 | 0.00 | 43.56 | 0.64 | 0.36 | 0.73 | 0.04 | 0.01 |
| 43.61 | 0.77 | 0.23 | 1.32 | 0.05 | 0.01 | 43.67 | 0.88 | 0.12 | 4.39 | 0.06 | 0.01 |
| 43.72 | 1.00 | 0.00 | 797274697 | 0.05 | 0.00 | 43.80 | 1.09 | 0.00 | 0.00 | 0.08 | 0.00 |
| 43.85 | 1.16 | 0.00 | 0.00 | 0.05 | 0.00 | 43.90 | 1.21 | 0.00 | 0.00 | 0.05 | 0.00 |
| 43.94 | 1.24 | 0.00 | 0.00 | 0.05 | 0.00 | 43.99 | 1.26 | 0.00 | 0.00 | 0.05 | 0.00 |
| 44.08 | 1.27 | 0.00 | 0.00 | 0.09 | 0.00 | 44.14 | 1.28 | 0.00 | 0.00 | 0.06 | 0.00 |
| 44.22 | 1.30 | 0.00 | 0.00 | 0.08 | 0.00 | 44.28 | 1.30 | 0.00 | 0.00 | 0.05 | 0.00 |
| 44.33 | 1.29 | 0.00 | 0.00 | 0.05 | 0.00 | 44.40 | 1.27 | 0.00 | 0.00 | 0.07 | 0.00 |
| 44.48 | 1.27 | 0.00 | 0.00 | 0.08 | 0.00 | 44.52 | 1.26 | 0.00 | 0.00 | 0.05 | 0.00 |
| 44.61 | 1.27 | 0.00 | 0.00 | 0.09 | 0.00 | 44.72 | 1.29 | 0.00 | 0.00 | 0.11 | 0.00 |
| 44.77 | 1.34 | 0.00 | 0.00 | 0.05 | 0.00 | 44.91 | 1.36 | 0.00 | 0.00 | 0.14 | 0.00 |
| 44.95 | 1.29 | 0.00 | 0.00 | 0.05 | 0.00 | 45.02 | 1.24 | 0.00 | 0.00 | 0.07 | 0.00 |
| 45.04 | 0.96 | 0.04 | 168.59 | 0.02 | 0.00 | 45.06 | 1.00 | 0.00 | 814329101 | 0.02 | 0.00 |
| 45.11 | 1.04 | 0.00 | 0.00 | 0.05 | 0.00 | 45.15 | 1.37 | 0.00 | 0.00 | 0.05 | 0.00 |
| 45.21 | 1.44 | 0.00 | 0.00 | 0.05 | 0.00 | 45.25 | 1.50 | 0.00 | 0.00 | 0.04 | 0.00 |
| 45.30 | 1.54 | 0.00 | 0.00 | 0.05 | 0.00 | 45.35 | 1.57 | 0.00 | 0.00 | 0.05 | 0.00 |
| 45.41 | 1.57 | 0.00 | 0.00 | 0.06 | 0.00 | 45.49 | 1.55 | 0.00 | 0.00 | 0.08 | 0.00 |
| 45.55 | 1.52 | 0.00 | 0.00 | 0.05 | 0.00 | 45.63 | 1.46 | 0.00 | 0.00 | 0.09 | 0.00 |
| 45.69 | 1.38 | 0.00 | 0.00 | 0.05 | 0.00 | 45.78 | 1.29 | 0.00 | 0.00 | 0.09 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 45.84 | 1.19 | 0.00 | 0.00 | 0.06 | 0.00 | 45.93 | 1.07 | 0.00 | 0.00 | 0.09 | 0.00 |
| 46.02 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 46.08 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 46.16 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 46.24 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 46.31 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 46.41 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 46.48 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 46.56 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 46.65 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 46.75 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 46.84 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 46.94 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 47.02 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 47.08 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 47.12 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 47.16 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 47.21 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 47.27 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 47.35 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 47.40 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 47.50 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 47.55 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 47.61 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 47.69 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 47.76 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 47.83 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 47.93 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 48.02 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 48.09 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 48.18 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 48.27 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 48.37 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 48.46 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 48.52 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 48.60 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 48.70 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 48.79 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 48.85 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 48.94 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 49.04 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 49.13 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 49.23 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 49.33 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 49.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 49.42 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 49.48 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 49.53 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 49.58 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 49.63 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 49.72 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 49.77 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 49.83 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 49.92 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 49.97 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 50.04 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 50.11 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 50.20 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 50.27 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 50.34 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 50.45 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 50.54 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 50.59 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 50.68 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 50.79 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 50.88 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 50.98 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 51.07 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 51.17 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 51.24 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 51.33 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 51.46 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 51.46 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 51.51 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 51.56 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 51.65 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 51.71 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 51.79 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 51.85 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 51.94 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 51.99 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 52.09 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 52.19 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 52.28 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 52.35 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 52.43 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 52.52 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 52.62 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 52.72 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 52.81 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 52.91 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 53.00 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 53.10 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 53.20 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 53.29 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 53.38 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 53.46 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 53.53 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 53.63 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 53.73 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 53.82 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 53.92 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 53.94 | 0.98 | 0.02 | 70981.95 | 0.02 | 0.00 |
| 53.96 | 0.88 | 0.12 | 3.79 | 0.02 | 0.00 | 53.97 | 0.92 | 0.08 | 10.21 | 0.01 | 0.00 |
| 54.05 | 1.03 | 0.00 | 0.00 | 0.08 | 0.00 | 54.08 | 1.19 | 0.00 | 0.00 | 0.02 | 0.00 |
| 54.13 | 1.28 | 0.00 | 0.00 | 0.05 | 0.00 | 54.19 | 1.38 | 0.00 | 0.00 | 0.06 | 0.00 |
| 54.25 | 1.46 | 0.00 | 0.00 | 0.06 | 0.00 | 54.28 | 1.54 | 0.00 | 0.00 | 0.03 | 0.00 |
| 54.29 | 1.49 | 0.00 | 0.00 | 0.02 | 0.00 | 54.34 | 1.49 | 0.00 | 0.00 | 0.05 | 0.00 |
| 54.35 | 1.50 | 0.00 | 0.00 | 0.01 | 0.00 | 54.40 | 1.52 | 0.00 | 0.00 | 0.05 | 0.00 |
| 54.44 | 1.54 | 0.00 | 0.00 | 0.04 | 0.00 | 54.49 | 1.53 | 0.00 | 0.00 | 0.05 | 0.00 |
| 54.53 | 1.56 | 0.00 | 0.00 | 0.04 | 0.00 | 54.57 | 1.65 | 0.00 | 0.00 | 0.03 | 0.00 |
| 54.58 | 1.72 | 0.00 | 0.00 | 0.02 | 0.00 | 54.63 | 1.72 | 0.00 | 0.00 | 0.04 | 0.00 |
| 54.68 | 1.80 | 0.00 | 0.00 | 0.05 | 0.00 | 54.73 | 1.75 | 0.00 | 0.00 | 0.05 | 0.00 |
| 54.78 | 1.71 | 0.00 | 0.00 | 0.05 | 0.00 | 54.83 | 1.70 | 0.00 | 0.00 | 0.05 | 0.00 |
| 54.88 | 1.75 | 0.00 | 0.00 | 0.05 | 0.00 | 54.92 | 1.84 | 0.00 | 0.00 | 0.05 | 0.00 |
| 54.97 | 1.91 | 0.00 | 0.00 | 0.05 | 0.00 | 55.02 | 1.93 | 0.00 | 0.00 | 0.05 | 0.00 |
| 55.12 | 1.83 | 0.00 | 0.00 | 0.09 | 0.00 | 55.17 | 1.64 | 0.00 | 0.00 | 0.05 | 0.00 |
| 55.25 | 1.41 | 0.00 | 0.00 | 0.08 | 0.00 | 55.31 | 1.28 | 0.00 | 0.00 | 0.06 | 0.00 |
| 55.36 | 1.17 | 0.00 | 0.00 | 0.05 | 0.00 | 55.45 | 1.08 | 0.00 | 0.00 | 0.09 | 0.00 |
| 55.50 | 0.98 | 0.02 | 192664.19 | 0.05 | 0.00 | 55.60 | 0.92 | 0.08 | 11.38 | 0.10 | 0.00 |
| 55.65 | 0.84 | 0.16 | 2.35 | 0.05 | 0.00 | 55.71 | 0.79 | 0.21 | 1.51 | 0.06 | 0.01 |
| 55.75 | 0.75 | 0.25 | 1.17 | 0.04 | 0.00 | 55.79 | 0.76 | 0.24 | 1.23 | 0.04 | 0.00 |
| 55.84 | 0.78 | 0.22 | 1.43 | 0.05 | 0.01 | 55.89 | 0.80 | 0.20 | 1.68 | 0.05 | 0.00 |
| 55.90 | 0.81 | 0.19 | 1.83 | 0.01 | 0.00 | 55.94 | 0.80 | 0.20 | 1.61 | 0.03 | 0.00 |
| 55.99 | 0.77 | 0.23 | 1.33 | 0.05 | 0.01 | 56.03 | 0.74 | 0.26 | 1.11 | 0.05 | 0.01 |
| 56.08 | 0.72 | 0.28 | 0.99 | 0.05 | 0.01 | 56.14 | 0.69 | 0.31 | 0.90 | 0.06 | 0.01 |
| 56.22 | 0.67 | 0.33 | 0.81 | 0.08 | 0.01 | 56.28 | 0.65 | 0.35 | 0.75 | 0.05 | 0.01 |
| 56.33 | 0.65 | 0.35 | 0.74 | 0.05 | 0.01 | 56.38 | 0.65 | 0.35 | 0.74 | 0.05 | 0.01 |
| 56.45 | 0.67 | 0.33 | 0.80 | 0.07 | 0.01 | 56.52 | 0.70 | 0.30 | 0.91 | 0.07 | 0.01 |
| 56.62 | 0.74 | 0.26 | 1.11 | 0.10 | 0.01 | 56.66 | 0.77 | 0.23 | 1.37 | 0.05 | 0.00 |
| 56.73 | 0.82 | 0.18 | 1.99 | 0.07 | 0.01 | 56.81 | 0.86 | 0.14 | 3.17 | 0.08 | 0.00 |
| 56.95 | 0.91 | 0.09 | 7.48 | 0.14 | 0.01 | 57.00 | 0.96 | 0.04 | 95.74 | 0.04 | 0.00 |
| 57.09 | 0.97 | 0.03 | 549.52 | 0.10 | 0.00 | 57.19 | 0.96 | 0.04 | 115.26 | 0.10 | 0.00 |
| 57.27 | 0.89 | 0.11 | 5.10 | 0.08 | 0.00 | 57.35 | 0.87 | 0.13 | 3.70 | 0.07 | 0.00 |
| 57.44 | 0.83 | 0.17 | 2.25 | 0.09 | 0.01 | 57.50 | 0.83 | 0.17 | 2.17 | 0.07 | 0.00 |
| 57.52 | 0.90 | 0.10 | 5.94 | 0.02 | 0.00 | 57.58 | 1.06 | 0.00 | 0.00 | 0.05 | 0.00 |
| 57.63 | 1.19 | 0.00 | 0.00 | 0.05 | 0.00 | 57.72 | 1.23 | 0.00 | 0.00 | 0.09 | 0.00 |
| 57.77 | 1.18 | 0.00 | 0.00 | 0.04 | 0.00 | 57.82 | 1.09 | 0.00 | 0.00 | 0.05 | 0.00 |
| 57.91 | 0.98 | 0.02 | 45128.57 | 0.09 | 0.00 | 57.96 | 0.88 | 0.12 | 4.13 | 0.05 | 0.00 |
| 58.02 | 0.95 | 0.05 | 55.89 | 0.05 | 0.00 | 58.09 | 1.00 | 0.00 | 176603202 | 0.08 | 0.00 |
| 58.16 | 1.08 | 0.00 | 0.00 | 0.06 | 0.00 | 58.25 | 1.11 | 0.00 | 0.00 | 0.10 | 0.00 |
| 58.30 | 1.09 | 0.00 | 0.00 | 0.05 | 0.00 | 58.40 | 1.04 | 0.00 | 0.00 | 0.10 | 0.00 |
| 58.50 | 1.03 | 0.00 | 0.00 | 0.10 | 0.00 | 58.56 | 1.01 | 0.00 | 0.00 | 0.06 | 0.00 |
| 58.64 | 1.04 | 0.00 | 0.00 | 0.08 | 0.00 | 58.73 | 1.12 | 0.00 | 0.00 | 0.09 | 0.00 |
| 58.78 | 1.14 | 0.00 | 0.00 | 0.05 | 0.00 | 58.88 | 1.18 | 0.00 | 0.00 | 0.09 | 0.00 |
| 58.97 | 1.20 | 0.00 | 0.00 | 0.09 | 0.00 | 59.07 | 1.17 | 0.00 | 0.00 | 0.10 | 0.00 |
| 59.13 | 1.10 | 0.00 | 0.00 | 0.05 | 0.00 | 59.23 | 1.05 | 0.00 | 0.00 | 0.10 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 59.31 | 0.95 | 0.05 | 67.96 | 0.09 | 0.00 | 59.38 | 0.89 | 0.11 | 4.90 | 0.07 | 0.00 |
| 59.41 | 0.84 | 0.16 | 2.46 | 0.03 | 0.00 | 59.46 | 0.86 | 0.14 | 3.03 | 0.05 | 0.00 |
| 59.51 | 0.86 | 0.14 | 3.00 | 0.05 | 0.00 | 59.57 | 0.89 | 0.11 | 5.27 | 0.05 | 0.00 |
| 59.66 | 0.98 | 0.02 | 7667.36 | 0.09 | 0.00 | 59.75 | 1.08 | 0.00 | 0.00 | 0.09 | 0.00 |
| 59.80 | 1.18 | 0.00 | 0.00 | 0.05 | 0.00 | 59.85 | 1.36 | 0.00 | 0.00 | 0.05 | 0.00 |
| 59.91 | 1.39 | 0.00 | 0.00 | 0.06 | 0.00 | 59.99 | 1.42 | 0.00 | 0.00 | 0.08 | 0.00 |
| 60.05 | 1.47 | 0.00 | 0.00 | 0.05 | 0.00 | 60.09 | 1.44 | 0.00 | 0.00 | 0.04 | 0.00 |
| 60.14 | 1.35 | 0.00 | 0.00 | 0.05 | 0.00 | 60.19 | 1.29 | 0.00 | 0.00 | 0.05 | 0.00 |
| 60.22 | 1.25 | 0.00 | 0.00 | 0.03 | 0.00 | 60.28 | 1.15 | 0.00 | 0.00 | 0.06 | 0.00 |
| 60.33 | 1.00 | 0.00 | 370871701 | 0.05 | 0.00 | 60.38 | 0.84 | 0.16 | 2.34 | 0.05 | 0.00 |
| 60.42 | 0.74 | 0.26 | 1.15 | 0.04 | 0.00 | 60.48 | 0.64 | 0.36 | 0.73 | 0.06 | 0.01 |
| 60.57 | 0.55 | 0.45 | 0.55 | 0.09 | 0.01 | 60.66 | 0.47 | 0.53 | 0.45 | 0.09 | 0.01 |
| 60.68 | 0.43 | 0.57 | 0.41 | 0.03 | 0.00 | 60.69 | 0.41 | 0.59 | 0.40 | 0.01 | 0.00 |
| 60.74 | 0.40 | 0.60 | 0.38 | 0.05 | 0.01 | 60.79 | 0.38 | 0.62 | 0.37 | 0.05 | 0.01 |
| 60.84 | 0.36 | 0.64 | 0.36 | 0.05 | 0.01 | 60.89 | 0.34 | 0.66 | 0.35 | 0.05 | 0.01 |
| 60.98 | 0.33 | 0.67 | 0.34 | 0.09 | 0.01 | 61.03 | 0.35 | 0.65 | 0.35 | 0.04 | 0.01 |
| 61.08 | 0.40 | 0.60 | 0.38 | 0.06 | 0.01 | 61.18 | 0.46 | 0.54 | 0.44 | 0.09 | 0.01 |
| 61.23 | 0.54 | 0.46 | 0.53 | 0.06 | 0.01 | 61.31 | 0.49 | 0.51 | 0.47 | 0.08 | 0.01 |
| 61.42 | 0.49 | 0.51 | 0.47 | 0.10 | 0.01 | 61.47 | 0.55 | 0.45 | 0.54 | 0.05 | 0.00 |
| 61.51 | 0.61 | 0.39 | 0.65 | 0.05 | 0.00 | 61.54 | 0.62 | 0.38 | 0.68 | 0.02 | 0.00 |
| 61.57 | 0.66 | 0.34 | 0.78 | 0.03 | 0.00 | 61.58 | 0.74 | 0.26 | 1.10 | 0.02 | 0.00 |
| 61.61 | 0.65 | 0.35 | 0.76 | 0.03 | 0.00 | 61.63 | 0.61 | 0.39 | 0.64 | 0.01 | 0.00 |
| 61.63 | 0.47 | 0.53 | 0.45 | 0.01 | 0.00 | 61.66 | 0.39 | 0.61 | 0.38 | 0.02 | 0.00 |
| 61.67 | 0.43 | 0.57 | 0.41 | 0.01 | 0.00 | 61.70 | 0.42 | 0.58 | 0.40 | 0.03 | 0.00 |
| 61.71 | 0.43 | 0.57 | 0.41 | 0.01 | 0.00 | 61.76 | 0.44 | 0.56 | 0.42 | 0.04 | 0.00 |
| 61.80 | 0.47 | 0.53 | 0.45 | 0.05 | 0.00 | 61.84 | 0.49 | 0.51 | 0.47 | 0.04 | 0.00 |
| 61.86 | 0.53 | 0.47 | 0.52 | 0.02 | 0.00 | 61.93 | 0.57 | 0.43 | 0.58 | 0.07 | 0.01 |
| 61.98 | 0.55 | 0.45 | 0.54 | 0.05 | 0.00 | 62.04 | 0.69 | 0.31 | 0.87 | 0.06 | 0.00 |
| 62.09 | 0.86 | 0.14 | 2.85 | 0.05 | 0.00 | 62.14 | 0.98 | 0.02 | 303039.98 | 0.05 | 0.00 |
| 62.19 | 1.07 | 0.00 | 0.00 | 0.05 | 0.00 | 62.24 | 1.11 | 0.00 | 0.00 | 0.05 | 0.00 |
| 62.26 | 1.17 | 0.00 | 0.00 | 0.02 | 0.00 | 62.29 | 1.17 | 0.00 | 0.00 | 0.03 | 0.00 |
| 62.38 | 1.15 | 0.00 | 0.00 | 0.09 | 0.00 | 62.44 | 1.02 | 0.00 | 0.00 | 0.06 | 0.00 |
| 62.46 | 0.92 | 0.08 | 11.18 | 0.02 | 0.00 | 62.47 | 0.84 | 0.16 | 2.27 | 0.01 | 0.00 |
| 62.51 | 0.86 | 0.14 | 2.91 | 0.04 | 0.00 | 62.56 | 0.90 | 0.10 | 5.86 | 0.05 | 0.00 |
| 62.60 | 0.96 | 0.04 | 92.83 | 0.04 | 0.00 | 62.65 | 0.97 | 0.03 | 2178.99 | 0.05 | 0.00 |
| 62.70 | 0.98 | 0.02 | 4021.39 | 0.05 | 0.00 | 62.75 | 0.98 | 0.02 | 10362.26 | 0.05 | 0.00 |
| 62.80 | 1.03 | 0.00 | 0.00 | 0.05 | 0.00 | 62.85 | 1.19 | 0.00 | 0.00 | 0.05 | 0.00 |
| 62.89 | 1.44 | 0.00 | 0.00 | 0.05 | 0.00 | 62.97 | 1.79 | 0.00 | 0.00 | 0.07 | 0.00 |
| 63.04 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 63.09 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 63.13 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 63.19 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 63.23 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 63.28 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 63.32 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 63.38 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 63.44 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 63.52 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 63.57 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 63.66 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 63.73 | 1.22 | 0.00 | 0.00 | 0.06 | 0.00 | 63.76 | 0.90 | 0.10 | 6.71 | 0.03 | 0.00 |
| 63.76 | 0.86 | 0.14 | 3.13 | 0.01 | 0.00 | 63.78 | 0.91 | 0.09 | 8.14 | 0.02 | 0.00 |
| 63.81 | 1.10 | 0.00 | 0.00 | 0.03 | 0.00 | 63.85 | 1.17 | 0.00 | 0.00 | 0.04 | 0.00 |
| 63.86 | 1.15 | 0.00 | 0.00 | 0.01 | 0.00 | 63.91 | 1.21 | 0.00 | 0.00 | 0.05 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 63.94 | 1.25 | 0.00 | 0.00 | 0.03 | 0.00 | 63.95 | 1.27 | 0.00 | 0.00 | 0.02 | 0.00 |
| 64.00 | 1.26 | 0.00 | 0.00 | 0.05 | 0.00 | 64.02 | 1.23 | 0.00 | 0.00 | 0.01 | 0.00 |
| 64.05 | 1.20 | 0.00 | 0.00 | 0.03 | 0.00 | 64.09 | 1.18 | 0.00 | 0.00 | 0.04 | 0.00 |
| 64.11 | 1.14 | 0.00 | 0.00 | 0.02 | 0.00 | 64.15 | 1.10 | 0.00 | 0.00 | 0.04 | 0.00 |
| 64.20 | 1.08 | 0.00 | 0.00 | 0.05 | 0.00 | 64.25 | 1.09 | 0.00 | 0.00 | 0.05 | 0.00 |
| 64.29 | 1.21 | 0.00 | 0.00 | 0.04 | 0.00 | 64.34 | 1.40 | 0.00 | 0.00 | 0.05 | 0.00 |
| 64.43 | 1.63 | 0.00 | 0.00 | 0.08 | 0.00 | 64.48 | 1.81 | 0.00 | 0.00 | 0.05 | 0.00 |
| 64.53 | 1.90 | 0.00 | 0.00 | 0.05 | 0.00 | 64.58 | 1.99 | 0.00 | 0.00 | 0.05 | 0.00 |
| 64.63 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 64.68 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 64.73 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 64.77 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 64.82 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 64.87 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 64.89 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 64.93 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 64.94 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 64.98 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 64.99 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 65.03 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 65.08 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 65.13 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 65.17 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 65.22 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 65.23 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 65.28 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 65.32 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 65.37 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 65.42 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 65.47 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 65.48 | 1.97 | 0.00 | 0.00 | 0.01 | 0.00 | 65.49 | 1.83 | 0.00 | 0.00 | 0.01 | 0.00 |
| 65.52 | 1.81 | 0.00 | 0.00 | 0.03 | 0.00 | 65.57 | 1.88 | 0.00 | 0.00 | 0.05 | 0.00 |
| 65.62 | 1.99 | 0.00 | 0.00 | 0.05 | 0.00 | 65.67 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 65.69 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 65.72 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 65.77 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 65.82 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 65.86 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 65.86 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 65.91 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 65.96 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |

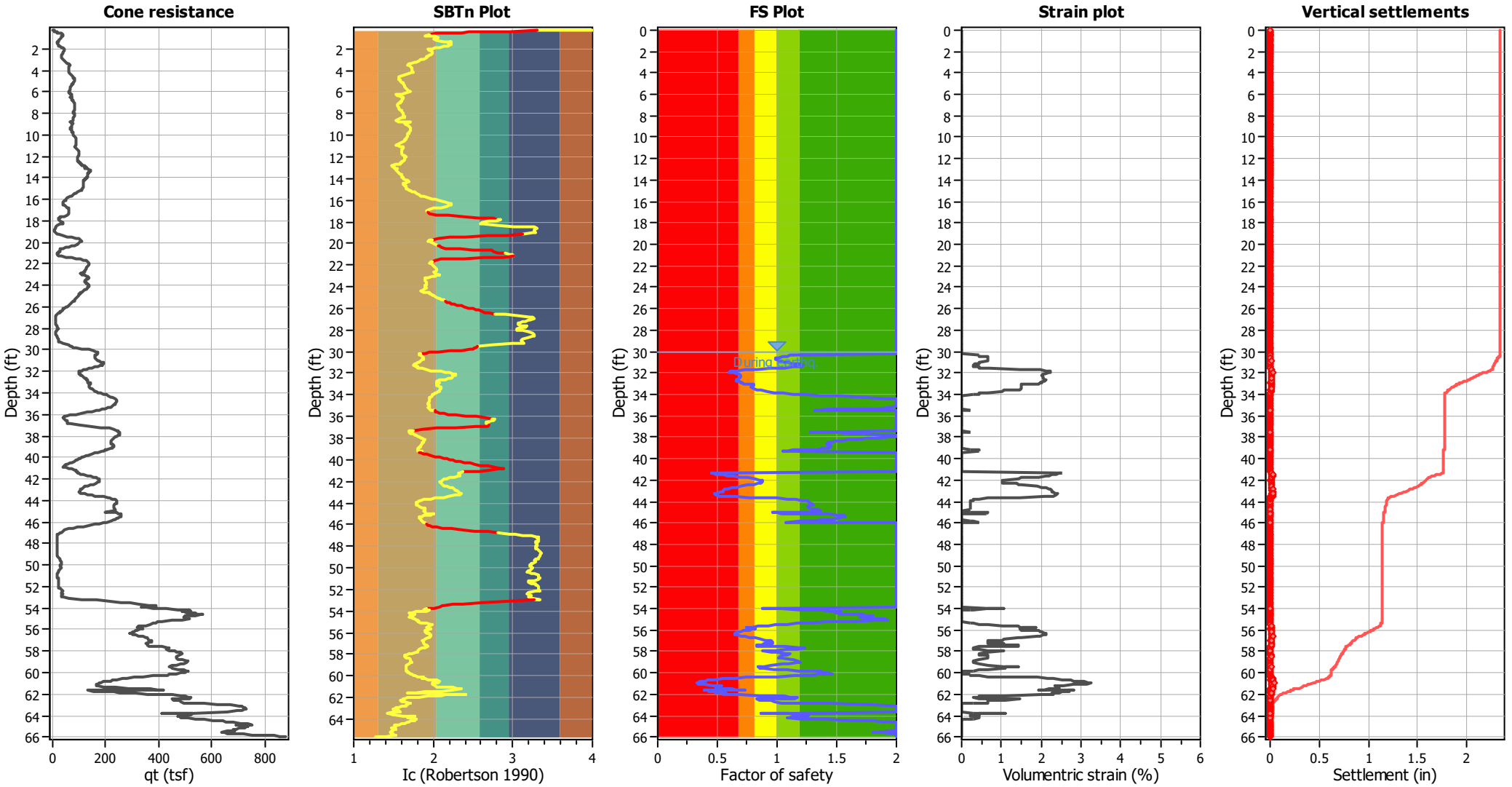
**Overall liquefaction potential: 2.18**

LPI = 0.00 - Liquefaction risk very low
LPI between 0.00 and 5.00 - Liquefaction risk low
LPI between 5.00 and 15.00 - Liquefaction risk high
LPI > 15.00 - Liquefaction risk very high

**Abbreviations**

FS: Calculated factor of safety for test point
$F_L$: 1 - FS
$w_z$: Function value of the extend of soil liquefaction according to depth
$d_z$: Layer thickness (ft)
LPI: Liquefaction potential index value for test point

## Estimation of post-earthquake settlements




**Abbreviations**

| | |
|---|---|
| $q_t$: | Total cone resistance (cone resistance $q_c$ corrected for pore water effects) |
| $I_c$: | Soil Behaviour Type Index |
| FS: | Calculated Factor of Safety against liquefaction |
| Volumentric strain: | Post-liquefaction volumentric strain |

**:: Post-earthquake settlement due to soil liquefaction ::**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 30.05 | 136.43 | 2.00 | 0.00 | 1.00 | 0.00 | 30.14 | 140.95 | 2.00 | 0.00 | 1.00 | 0.00 |
| 30.19 | 142.08 | 2.00 | 0.00 | 1.00 | 0.00 | 30.24 | 142.19 | 2.00 | 0.00 | 1.00 | 0.00 |
| 30.29 | 142.38 | 1.14 | 0.44 | 1.00 | 0.00 | 30.38 | 141.39 | 1.12 | 0.44 | 1.00 | 0.00 |
| 30.43 | 139.76 | 1.09 | 0.44 | 1.00 | 0.00 | 30.48 | 137.67 | 1.05 | 0.66 | 1.00 | 0.00 |
| 30.54 | 135.86 | 1.02 | 0.66 | 1.00 | 0.00 | 30.62 | 134.98 | 1.00 | 0.67 | 1.00 | 0.01 |
| 30.67 | 134.34 | 0.99 | 0.67 | 1.00 | 0.00 | 30.72 | 134.61 | 0.99 | 0.67 | 1.00 | 0.00 |
| 30.76 | 134.89 | 1.00 | 0.67 | 1.00 | 0.00 | 30.86 | 135.92 | 1.01 | 0.66 | 1.00 | 0.01 |
| 30.91 | 137.26 | 1.03 | 0.66 | 1.00 | 0.00 | 30.95 | 138.94 | 1.06 | 0.45 | 1.00 | 0.00 |
| 31.03 | 140.71 | 1.09 | 0.44 | 1.00 | 0.00 | 31.10 | 142.33 | 1.12 | 0.44 | 1.00 | 0.00 |
| 31.15 | 144.07 | 1.15 | 0.31 | 1.00 | 0.00 | 31.20 | 146.05 | 1.19 | 0.31 | 1.00 | 0.00 |
| 31.26 | 147.81 | 1.22 | 0.31 | 1.00 | 0.00 | 31.34 | 147.23 | 1.21 | 0.31 | 1.00 | 0.00 |
| 31.37 | 146.99 | 1.20 | 0.31 | 1.00 | 0.00 | 31.38 | 145.70 | 1.18 | 0.31 | 1.00 | 0.00 |
| 31.43 | 146.17 | 1.19 | 0.31 | 1.00 | 0.00 | 31.47 | 143.44 | 1.13 | 0.44 | 1.00 | 0.00 |
| 31.55 | 139.35 | 1.06 | 0.44 | 1.00 | 0.00 | 31.59 | 132.93 | 0.95 | 0.68 | 1.00 | 0.00 |
| 31.66 | 124.83 | 0.83 | 1.47 | 1.00 | 0.01 | 31.73 | 116.80 | 0.73 | 1.97 | 1.00 | 0.02 |
| 31.78 | 110.36 | 0.65 | 2.14 | 1.00 | 0.01 | 31.84 | 106.34 | 0.61 | 2.22 | 1.00 | 0.02 |
| 31.93 | 104.84 | 0.60 | 2.25 | 1.00 | 0.02 | 31.98 | 106.04 | 0.61 | 2.23 | 1.00 | 0.01 |
| 32.02 | 108.88 | 0.64 | 2.18 | 1.00 | 0.01 | 32.09 | 111.87 | 0.67 | 2.10 | 1.00 | 0.02 |
| 32.16 | 113.86 | 0.69 | 2.04 | 1.00 | 0.02 | 32.22 | 114.52 | 0.70 | 2.03 | 1.00 | 0.01 |
| 32.27 | 114.53 | 0.70 | 2.03 | 1.00 | 0.01 | 32.34 | 114.38 | 0.69 | 2.03 | 1.00 | 0.02 |
| 32.42 | 114.11 | 0.69 | 2.04 | 1.00 | 0.02 | 32.46 | 113.62 | 0.68 | 2.05 | 1.00 | 0.01 |
| 32.54 | 113.25 | 0.68 | 2.06 | 1.00 | 0.02 | 32.60 | 112.00 | 0.66 | 2.09 | 1.00 | 0.02 |
| 32.67 | 111.53 | 0.66 | 2.11 | 1.00 | 0.02 | 32.75 | 111.85 | 0.66 | 2.10 | 1.00 | 0.02 |
| 32.81 | 113.95 | 0.68 | 2.04 | 1.00 | 0.01 | 32.89 | 116.21 | 0.71 | 1.99 | 1.00 | 0.02 |
| 32.94 | 114.84 | 0.69 | 2.02 | 1.00 | 0.01 | 32.95 | 116.07 | 0.71 | 1.99 | 1.00 | 0.00 |
| 33.00 | 117.56 | 0.72 | 1.95 | 1.00 | 0.01 | 33.06 | 122.40 | 0.79 | 1.51 | 1.00 | 0.01 |
| 33.11 | 123.66 | 0.80 | 1.49 | 1.00 | 0.01 | 33.20 | 123.53 | 0.80 | 1.49 | 1.00 | 0.02 |
| 33.25 | 123.06 | 0.79 | 1.50 | 1.00 | 0.01 | 33.34 | 122.48 | 0.78 | 1.51 | 1.00 | 0.02 |
| 33.38 | 122.68 | 0.79 | 1.51 | 1.00 | 0.01 | 33.48 | 123.78 | 0.80 | 1.49 | 1.00 | 0.02 |
| 33.58 | 125.79 | 0.83 | 1.45 | 1.00 | 0.02 | 33.63 | 128.81 | 0.87 | 1.08 | 1.00 | 0.01 |
| 33.73 | 132.15 | 0.92 | 1.04 | 1.00 | 0.01 | 33.82 | 136.16 | 0.98 | 0.66 | 1.00 | 0.01 |
| 33.87 | 140.58 | 1.05 | 0.44 | 1.00 | 0.00 | 33.96 | 145.13 | 1.13 | 0.43 | 1.00 | 0.00 |
| 34.02 | 150.66 | 1.23 | 0.30 | 1.00 | 0.00 | 34.11 | 157.32 | 1.37 | 0.00 | 1.00 | 0.00 |
| 34.18 | 164.99 | 1.54 | 0.00 | 1.00 | 0.00 | 34.26 | 172.52 | 1.72 | 0.00 | 1.00 | 0.00 |
| 34.35 | 179.50 | 1.91 | 0.00 | 1.00 | 0.00 | 34.44 | 185.53 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.49 | 190.23 | 2.00 | 0.00 | 1.00 | 0.00 | 34.59 | 192.83 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.69 | 194.12 | 2.00 | 0.00 | 1.00 | 0.00 | 34.76 | 194.53 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.83 | 194.02 | 2.00 | 0.00 | 1.00 | 0.00 | 34.93 | 191.54 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.02 | 188.08 | 2.00 | 0.00 | 1.00 | 0.00 | 35.12 | 184.23 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.22 | 181.13 | 1.94 | 0.00 | 1.00 | 0.00 | 35.30 | 177.46 | 1.83 | 0.00 | 1.00 | 0.00 |
| 35.38 | 168.21 | 1.60 | 0.00 | 1.00 | 0.00 | 35.43 | 161.35 | 1.44 | 0.00 | 1.00 | 0.00 |
| 35.46 | 155.80 | 1.32 | 0.21 | 1.00 | 0.00 | 35.51 | 153.78 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.56 | 146.76 | 2.00 | 0.00 | 1.00 | 0.00 | 35.66 | 138.53 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.70 | 130.03 | 2.00 | 0.00 | 1.00 | 0.00 | 35.80 | 123.66 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.89 | 119.95 | 2.00 | 0.00 | 1.00 | 0.00 | 35.96 | 120.81 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.04 | 120.37 | 2.00 | 0.00 | 1.00 | 0.00 | 36.14 | 117.01 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.19 | 110.69 | 2.00 | 0.00 | 1.00 | 0.00 | 36.28 | 110.05 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.33 | 108.32 | 2.00 | 0.00 | 1.00 | 0.00 | 36.42 | 108.08 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 36.48 | 107.27 | 2.00 | 0.00 | 1.00 | 0.00 | 36.52 | 112.95 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.62 | 119.67 | 2.00 | 0.00 | 1.00 | 0.00 | 36.68 | 126.59 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.77 | 128.11 | 2.00 | 0.00 | 1.00 | 0.00 | 36.86 | 126.60 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.90 | 115.19 | 2.00 | 0.00 | 1.00 | 0.00 | 37.00 | 103.13 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.10 | 112.56 | 2.00 | 0.00 | 1.00 | 0.00 | 37.20 | 136.84 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.29 | 147.30 | 2.00 | 0.00 | 1.00 | 0.00 | 37.39 | 149.01 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.49 | 155.00 | 1.28 | 0.21 | 1.00 | 0.00 | 37.53 | 160.20 | 1.39 | 0.00 | 1.00 | 0.00 |
| 37.58 | 165.44 | 1.51 | 0.00 | 1.00 | 0.00 | 37.62 | 169.66 | 1.60 | 0.00 | 1.00 | 0.00 |
| 37.69 | 175.10 | 1.74 | 0.00 | 1.00 | 0.00 | 37.77 | 179.78 | 1.86 | 0.00 | 1.00 | 0.00 |
| 37.82 | 183.39 | 1.96 | 0.00 | 1.00 | 0.00 | 37.87 | 184.85 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.91 | 184.82 | 2.00 | 0.00 | 1.00 | 0.00 | 37.97 | 183.06 | 1.95 | 0.00 | 1.00 | 0.00 |
| 38.06 | 179.59 | 1.85 | 0.00 | 1.00 | 0.00 | 38.10 | 175.74 | 1.75 | 0.00 | 1.00 | 0.00 |
| 38.17 | 172.34 | 1.67 | 0.00 | 1.00 | 0.00 | 38.25 | 169.66 | 1.60 | 0.00 | 1.00 | 0.00 |
| 38.35 | 167.11 | 1.54 | 0.00 | 1.00 | 0.00 | 38.40 | 164.83 | 1.48 | 0.00 | 1.00 | 0.00 |
| 38.46 | 163.21 | 1.45 | 0.00 | 1.00 | 0.00 | 38.54 | 162.26 | 1.43 | 0.00 | 1.00 | 0.00 |
| 38.60 | 161.69 | 1.41 | 0.00 | 1.00 | 0.00 | 38.69 | 161.77 | 1.41 | 0.00 | 1.00 | 0.00 |
| 38.74 | 162.53 | 1.43 | 0.00 | 1.00 | 0.00 | 38.83 | 163.73 | 1.46 | 0.00 | 1.00 | 0.00 |
| 38.88 | 163.54 | 1.45 | 0.00 | 1.00 | 0.00 | 38.97 | 162.47 | 1.43 | 0.00 | 1.00 | 0.00 |
| 39.02 | 160.45 | 1.38 | 0.00 | 1.00 | 0.00 | 39.11 | 158.54 | 1.34 | 0.21 | 1.00 | 0.00 |
| 39.16 | 154.99 | 1.27 | 0.21 | 1.00 | 0.00 | 39.23 | 148.10 | 1.14 | 0.43 | 1.00 | 0.00 |
| 39.24 | 145.08 | 1.08 | 0.43 | 1.00 | 0.00 | 39.28 | 143.39 | 1.05 | 0.44 | 1.00 | 0.00 |
| 39.32 | 144.08 | 1.07 | 0.43 | 1.00 | 0.00 | 39.39 | 139.67 | 2.00 | 0.00 | 1.00 | 0.00 |
| 39.47 | 133.48 | 2.00 | 0.00 | 1.00 | 0.00 | 39.54 | 125.99 | 2.00 | 0.00 | 1.00 | 0.00 |
| 39.62 | 117.99 | 2.00 | 0.00 | 1.00 | 0.00 | 39.71 | 110.70 | 2.00 | 0.00 | 1.00 | 0.00 |
| 39.76 | 105.08 | 2.00 | 0.00 | 1.00 | 0.00 | 39.85 | 101.34 | 2.00 | 0.00 | 1.00 | 0.00 |
| 39.90 | 98.95 | 2.00 | 0.00 | 1.00 | 0.00 | 40.00 | 97.53 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.06 | 96.96 | 2.00 | 0.00 | 1.00 | 0.00 | 40.15 | 97.18 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.21 | 98.86 | 2.00 | 0.00 | 1.00 | 0.00 | 40.29 | 102.19 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.35 | 108.27 | 2.00 | 0.00 | 1.00 | 0.00 | 40.43 | 111.81 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.52 | 114.58 | 2.00 | 0.00 | 1.00 | 0.00 | 40.58 | 115.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.67 | 116.83 | 2.00 | 0.00 | 1.00 | 0.00 | 40.77 | 117.65 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.84 | 117.99 | 2.00 | 0.00 | 1.00 | 0.00 | 40.89 | 116.25 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.94 | 111.31 | 2.00 | 0.00 | 1.00 | 0.00 | 41.03 | 103.18 | 2.00 | 0.00 | 1.00 | 0.00 |
| 41.08 | 96.47 | 2.00 | 0.00 | 1.00 | 0.00 | 41.14 | 92.51 | 2.00 | 0.00 | 1.00 | 0.00 |
| 41.22 | 90.97 | 2.00 | 0.00 | 1.00 | 0.00 | 41.28 | 91.29 | 0.45 | 2.52 | 1.00 | 0.02 |
| 41.33 | 93.52 | 0.46 | 2.47 | 1.00 | 0.01 | 41.42 | 97.02 | 0.49 | 2.40 | 1.00 | 0.03 |
| 41.47 | 100.81 | 0.52 | 2.32 | 1.00 | 0.01 | 41.52 | 104.48 | 0.55 | 2.25 | 1.00 | 0.02 |
| 41.62 | 107.92 | 0.58 | 2.20 | 1.00 | 0.02 | 41.67 | 112.91 | 0.63 | 2.12 | 1.00 | 0.01 |
| 41.76 | 118.23 | 0.69 | 1.94 | 1.00 | 0.02 | 41.82 | 123.75 | 0.76 | 1.49 | 1.00 | 0.01 |
| 41.90 | 128.02 | 0.81 | 1.42 | 1.00 | 0.01 | 41.99 | 131.05 | 0.85 | 1.05 | 1.00 | 0.01 |
| 42.05 | 132.58 | 0.88 | 1.03 | 1.00 | 0.01 | 42.15 | 132.77 | 0.88 | 1.03 | 1.00 | 0.01 |
| 42.23 | 132.06 | 0.87 | 1.04 | 1.00 | 0.01 | 42.30 | 130.51 | 0.85 | 1.38 | 1.00 | 0.01 |
| 42.38 | 127.88 | 0.81 | 1.42 | 1.00 | 0.01 | 42.48 | 123.60 | 0.75 | 1.49 | 1.00 | 0.02 |
| 42.57 | 119.15 | 0.70 | 1.92 | 1.00 | 0.02 | 42.64 | 115.28 | 0.66 | 2.01 | 1.00 | 0.02 |
| 42.72 | 111.72 | 0.62 | 2.13 | 1.00 | 0.02 | 42.82 | 108.24 | 0.58 | 2.19 | 1.00 | 0.03 |
| 42.90 | 105.42 | 0.56 | 2.24 | 1.00 | 0.02 | 42.97 | 104.32 | 0.55 | 2.26 | 1.00 | 0.02 |
| 43.06 | 104.69 | 0.55 | 2.25 | 1.00 | 0.02 | 43.15 | 102.43 | 0.53 | 2.29 | 1.00 | 0.03 |
| 43.20 | 99.54 | 0.51 | 2.35 | 1.00 | 0.01 | 43.30 | 95.67 | 0.48 | 2.42 | 1.00 | 0.03 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 43.40 | 97.12 | 0.49 | 2.39 | 1.00 | 0.03 | 43.48 | 100.97 | 0.52 | 2.32 | 1.00 | 0.02 |
| 43.51 | 103.89 | 0.54 | 2.26 | 1.00 | 0.01 | 43.52 | 107.23 | 0.57 | 2.21 | 1.00 | 0.00 |
| 43.56 | 114.20 | 0.64 | 2.10 | 1.00 | 0.01 | 43.61 | 124.81 | 0.77 | 1.47 | 1.00 | 0.01 |
| 43.67 | 133.29 | 0.88 | 1.02 | 1.00 | 0.01 | 43.72 | 140.56 | 1.00 | 0.64 | 1.00 | 0.00 |
| 43.80 | 145.95 | 1.09 | 0.43 | 1.00 | 0.00 | 43.85 | 149.84 | 1.16 | 0.31 | 1.00 | 0.00 |
| 43.90 | 152.56 | 1.21 | 0.30 | 1.00 | 0.00 | 43.94 | 154.37 | 1.24 | 0.30 | 1.00 | 0.00 |
| 43.99 | 155.28 | 1.26 | 0.21 | 1.00 | 0.00 | 44.08 | 155.65 | 1.27 | 0.21 | 1.00 | 0.00 |
| 44.14 | 156.49 | 1.28 | 0.21 | 1.00 | 0.00 | 44.22 | 157.19 | 1.30 | 0.21 | 1.00 | 0.00 |
| 44.28 | 157.37 | 1.30 | 0.21 | 1.00 | 0.00 | 44.33 | 156.78 | 1.29 | 0.21 | 1.00 | 0.00 |
| 44.40 | 155.80 | 1.27 | 0.21 | 1.00 | 0.00 | 44.48 | 155.90 | 1.27 | 0.21 | 1.00 | 0.00 |
| 44.52 | 155.24 | 1.26 | 0.21 | 1.00 | 0.00 | 44.61 | 155.88 | 1.27 | 0.21 | 1.00 | 0.00 |
| 44.72 | 156.70 | 1.29 | 0.21 | 1.00 | 0.00 | 44.77 | 159.04 | 1.34 | 0.21 | 1.00 | 0.00 |
| 44.91 | 160.27 | 1.36 | 0.00 | 1.00 | 0.00 | 44.95 | 156.88 | 1.29 | 0.21 | 1.00 | 0.00 |
| 45.02 | 154.33 | 1.24 | 0.30 | 1.00 | 0.00 | 45.04 | 138.44 | 0.96 | 0.65 | 1.00 | 0.00 |
| 45.06 | 140.63 | 1.00 | 0.64 | 1.00 | 0.00 | 45.11 | 143.03 | 1.04 | 0.63 | 1.00 | 0.00 |
| 45.15 | 160.49 | 1.37 | 0.00 | 1.00 | 0.00 | 45.21 | 163.81 | 1.44 | 0.00 | 1.00 | 0.00 |
| 45.25 | 166.43 | 1.50 | 0.00 | 1.00 | 0.00 | 45.30 | 168.34 | 1.54 | 0.00 | 1.00 | 0.00 |
| 45.35 | 169.35 | 1.57 | 0.00 | 1.00 | 0.00 | 45.41 | 169.64 | 1.57 | 0.00 | 1.00 | 0.00 |
| 45.49 | 168.87 | 1.55 | 0.00 | 1.00 | 0.00 | 45.55 | 167.24 | 1.52 | 0.00 | 1.00 | 0.00 |
| 45.63 | 164.52 | 1.46 | 0.00 | 1.00 | 0.00 | 45.69 | 161.09 | 1.38 | 0.00 | 1.00 | 0.00 |
| 45.78 | 156.88 | 1.29 | 0.21 | 1.00 | 0.00 | 45.84 | 151.68 | 1.19 | 0.30 | 1.00 | 0.00 |
| 45.93 | 145.18 | 1.07 | 0.43 | 1.00 | 0.00 | 46.02 | 137.24 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.08 | 128.00 | 2.00 | 0.00 | 1.00 | 0.00 | 46.16 | 118.20 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.24 | 108.31 | 2.00 | 0.00 | 1.00 | 0.00 | 46.31 | 99.54 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.41 | 94.32 | 2.00 | 0.00 | 1.00 | 0.00 | 46.48 | 95.41 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.56 | 101.49 | 2.00 | 0.00 | 1.00 | 0.00 | 46.65 | 106.39 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.75 | 104.92 | 2.00 | 0.00 | 1.00 | 0.00 | 46.84 | 96.75 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.94 | 92.20 | 2.00 | 0.00 | 1.00 | 0.00 | 47.02 | 89.65 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.08 | 87.68 | 2.00 | 0.00 | 1.00 | 0.00 | 47.12 | 86.24 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.16 | 84.67 | 2.00 | 0.00 | 1.00 | 0.00 | 47.21 | 82.35 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.27 | 79.44 | 2.00 | 0.00 | 1.00 | 0.00 | 47.35 | 76.72 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.40 | 72.71 | 2.00 | 0.00 | 1.00 | 0.00 | 47.50 | 68.97 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.55 | 65.28 | 2.00 | 0.00 | 1.00 | 0.00 | 47.61 | 63.67 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.69 | 62.57 | 2.00 | 0.00 | 1.00 | 0.00 | 47.76 | 61.71 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.83 | 60.22 | 2.00 | 0.00 | 1.00 | 0.00 | 47.93 | 58.40 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.02 | 57.34 | 2.00 | 0.00 | 1.00 | 0.00 | 48.09 | 56.35 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.18 | 57.05 | 2.00 | 0.00 | 1.00 | 0.00 | 48.27 | 58.44 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.37 | 61.09 | 2.00 | 0.00 | 1.00 | 0.00 | 48.46 | 62.98 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.52 | 64.25 | 2.00 | 0.00 | 1.00 | 0.00 | 48.60 | 65.23 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.70 | 65.99 | 2.00 | 0.00 | 1.00 | 0.00 | 48.79 | 66.70 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.85 | 68.42 | 2.00 | 0.00 | 1.00 | 0.00 | 48.94 | 71.44 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.04 | 73.34 | 2.00 | 0.00 | 1.00 | 0.00 | 49.13 | 82.09 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.23 | 92.00 | 2.00 | 0.00 | 1.00 | 0.00 | 49.33 | 102.80 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.38 | 109.60 | 2.00 | 0.00 | 1.00 | 0.00 | 49.42 | 114.80 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.48 | 118.93 | 2.00 | 0.00 | 1.00 | 0.00 | 49.53 | 121.43 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.58 | 123.62 | 2.00 | 0.00 | 1.00 | 0.00 | 49.63 | 125.52 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.72 | 126.23 | 2.00 | 0.00 | 1.00 | 0.00 | 49.77 | 125.98 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.83 | 125.40 | 2.00 | 0.00 | 1.00 | 0.00 | 49.92 | 124.67 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 49.97 | 123.55 | 2.00 | 0.00 | 1.00 | 0.00 | 50.04 | 122.65 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.11 | 122.33 | 2.00 | 0.00 | 1.00 | 0.00 | 50.20 | 120.55 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.27 | 116.01 | 2.00 | 0.00 | 1.00 | 0.00 | 50.34 | 107.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.45 | 99.22 | 2.00 | 0.00 | 1.00 | 0.00 | 50.54 | 92.39 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.59 | 87.71 | 2.00 | 0.00 | 1.00 | 0.00 | 50.68 | 83.78 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.79 | 80.17 | 2.00 | 0.00 | 1.00 | 0.00 | 50.88 | 78.18 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.98 | 77.89 | 2.00 | 0.00 | 1.00 | 0.00 | 51.07 | 76.09 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.17 | 71.67 | 2.00 | 0.00 | 1.00 | 0.00 | 51.24 | 68.77 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.33 | 70.43 | 2.00 | 0.00 | 1.00 | 0.00 | 51.46 | 74.75 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.46 | 78.20 | 2.00 | 0.00 | 1.00 | 0.00 | 51.51 | 79.60 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.56 | 82.02 | 2.00 | 0.00 | 1.00 | 0.00 | 51.65 | 84.26 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.71 | 86.89 | 2.00 | 0.00 | 1.00 | 0.00 | 51.79 | 88.80 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.85 | 92.19 | 2.00 | 0.00 | 1.00 | 0.00 | 51.94 | 96.33 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.99 | 102.62 | 2.00 | 0.00 | 1.00 | 0.00 | 52.09 | 109.52 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.19 | 116.81 | 2.00 | 0.00 | 1.00 | 0.00 | 52.28 | 122.63 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.35 | 128.41 | 2.00 | 0.00 | 1.00 | 0.00 | 52.43 | 132.82 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.52 | 136.28 | 2.00 | 0.00 | 1.00 | 0.00 | 52.62 | 135.93 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.72 | 133.92 | 2.00 | 0.00 | 1.00 | 0.00 | 52.81 | 135.53 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.91 | 146.31 | 2.00 | 0.00 | 1.00 | 0.00 | 53.00 | 154.70 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.10 | 148.13 | 2.00 | 0.00 | 1.00 | 0.00 | 53.20 | 129.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.29 | 114.61 | 2.00 | 0.00 | 1.00 | 0.00 | 53.38 | 114.09 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.46 | 119.81 | 2.00 | 0.00 | 1.00 | 0.00 | 53.53 | 130.93 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.63 | 139.93 | 2.00 | 0.00 | 1.00 | 0.00 | 53.73 | 146.92 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.82 | 150.03 | 2.00 | 0.00 | 1.00 | 0.00 | 53.92 | 146.54 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.94 | 138.23 | 0.98 | 0.65 | 1.00 | 0.00 | 53.96 | 131.20 | 0.88 | 1.05 | 1.00 | 0.00 |
| 53.97 | 134.16 | 0.92 | 1.01 | 1.00 | 0.00 | 54.05 | 141.00 | 1.03 | 0.64 | 1.00 | 0.01 |
| 54.08 | 150.15 | 1.19 | 0.31 | 1.00 | 0.00 | 54.13 | 154.41 | 1.28 | 0.21 | 1.00 | 0.00 |
| 54.19 | 159.56 | 1.38 | 0.00 | 1.00 | 0.00 | 54.25 | 162.94 | 1.46 | 0.00 | 1.00 | 0.00 |
| 54.28 | 166.66 | 1.54 | 0.00 | 1.00 | 0.00 | 54.29 | 164.40 | 1.49 | 0.00 | 1.00 | 0.00 |
| 54.34 | 164.35 | 1.49 | 0.00 | 1.00 | 0.00 | 54.35 | 164.72 | 1.50 | 0.00 | 1.00 | 0.00 |
| 54.40 | 165.62 | 1.52 | 0.00 | 1.00 | 0.00 | 54.44 | 166.45 | 1.54 | 0.00 | 1.00 | 0.00 |
| 54.49 | 165.88 | 1.53 | 0.00 | 1.00 | 0.00 | 54.53 | 167.39 | 1.56 | 0.00 | 1.00 | 0.00 |
| 54.57 | 171.02 | 1.65 | 0.00 | 1.00 | 0.00 | 54.58 | 173.92 | 1.72 | 0.00 | 1.00 | 0.00 |
| 54.63 | 173.90 | 1.72 | 0.00 | 1.00 | 0.00 | 54.68 | 176.93 | 1.80 | 0.00 | 1.00 | 0.00 |
| 54.73 | 175.12 | 1.75 | 0.00 | 1.00 | 0.00 | 54.78 | 173.29 | 1.71 | 0.00 | 1.00 | 0.00 |
| 54.83 | 172.82 | 1.70 | 0.00 | 1.00 | 0.00 | 54.88 | 175.08 | 1.75 | 0.00 | 1.00 | 0.00 |
| 54.92 | 178.37 | 1.84 | 0.00 | 1.00 | 0.00 | 54.97 | 180.73 | 1.91 | 0.00 | 1.00 | 0.00 |
| 55.02 | 181.62 | 1.93 | 0.00 | 1.00 | 0.00 | 55.12 | 178.01 | 1.83 | 0.00 | 1.00 | 0.00 |
| 55.17 | 170.63 | 1.64 | 0.00 | 1.00 | 0.00 | 55.25 | 160.49 | 1.41 | 0.00 | 1.00 | 0.00 |
| 55.31 | 154.46 | 1.28 | 0.21 | 1.00 | 0.00 | 55.36 | 148.87 | 1.17 | 0.31 | 1.00 | 0.00 |
| 55.45 | 143.68 | 1.08 | 0.44 | 1.00 | 0.00 | 55.50 | 137.89 | 0.98 | 0.66 | 1.00 | 0.00 |
| 55.60 | 133.93 | 0.92 | 1.02 | 1.00 | 0.01 | 55.65 | 128.15 | 0.84 | 1.41 | 1.00 | 0.01 |
| 55.71 | 124.39 | 0.79 | 1.48 | 1.00 | 0.01 | 55.75 | 121.19 | 0.75 | 1.87 | 1.00 | 0.01 |
| 55.79 | 121.90 | 0.76 | 1.52 | 1.00 | 0.01 | 55.84 | 123.76 | 0.78 | 1.49 | 1.00 | 0.01 |
| 55.89 | 125.39 | 0.80 | 1.46 | 1.00 | 0.01 | 55.90 | 126.17 | 0.81 | 1.45 | 1.00 | 0.00 |
| 55.94 | 124.98 | 0.80 | 1.47 | 1.00 | 0.01 | 55.99 | 122.89 | 0.77 | 1.50 | 1.00 | 0.01 |
| 56.03 | 120.41 | 0.74 | 1.89 | 1.00 | 0.01 | 56.08 | 118.54 | 0.72 | 1.93 | 1.00 | 0.01 |
| 56.14 | 116.74 | 0.69 | 1.97 | 1.00 | 0.01 | 56.22 | 114.65 | 0.67 | 2.02 | 1.00 | 0.02 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 56.28 | 112.90 | 0.65 | 2.07 | 1.00 | 0.01 | 56.33 | 112.38 | 0.65 | 2.12 | 1.00 | 0.01 |
| 56.38 | 112.46 | 0.65 | 2.12 | 1.00 | 0.01 | 56.45 | 114.23 | 0.67 | 2.04 | 1.00 | 0.02 |
| 56.52 | 117.01 | 0.70 | 1.97 | 1.00 | 0.02 | 56.62 | 120.21 | 0.74 | 1.89 | 1.00 | 0.02 |
| 56.66 | 123.02 | 0.77 | 1.50 | 1.00 | 0.01 | 56.73 | 126.65 | 0.82 | 1.44 | 1.00 | 0.01 |
| 56.81 | 129.59 | 0.86 | 1.07 | 1.00 | 0.01 | 56.95 | 132.64 | 0.91 | 1.03 | 1.00 | 0.02 |
| 57.00 | 135.80 | 0.96 | 0.66 | 1.00 | 0.00 | 57.09 | 136.52 | 0.97 | 0.66 | 1.00 | 0.01 |
| 57.19 | 135.85 | 0.96 | 0.66 | 1.00 | 0.01 | 57.27 | 131.44 | 0.89 | 1.05 | 1.00 | 0.01 |
| 57.35 | 130.16 | 0.87 | 1.06 | 1.00 | 0.01 | 57.44 | 127.36 | 0.83 | 1.43 | 1.00 | 0.02 |
| 57.50 | 127.07 | 0.83 | 1.43 | 1.00 | 0.01 | 57.52 | 131.85 | 0.90 | 1.04 | 1.00 | 0.00 |
| 57.58 | 141.73 | 1.06 | 0.44 | 1.00 | 0.00 | 57.63 | 149.17 | 1.19 | 0.31 | 1.00 | 0.00 |
| 57.72 | 151.31 | 1.23 | 0.30 | 1.00 | 0.00 | 57.77 | 148.26 | 1.18 | 0.31 | 1.00 | 0.00 |
| 57.82 | 143.29 | 1.09 | 0.44 | 1.00 | 0.00 | 57.91 | 137.09 | 0.98 | 0.66 | 1.00 | 0.01 |
| 57.96 | 130.46 | 0.88 | 1.06 | 1.00 | 0.01 | 58.02 | 135.16 | 0.95 | 0.67 | 1.00 | 0.00 |
| 58.09 | 138.12 | 1.00 | 0.65 | 1.00 | 0.01 | 58.16 | 142.65 | 1.08 | 0.44 | 1.00 | 0.00 |
| 58.25 | 144.36 | 1.11 | 0.43 | 1.00 | 0.01 | 58.30 | 143.26 | 1.09 | 0.44 | 1.00 | 0.00 |
| 58.40 | 140.74 | 1.04 | 0.64 | 1.00 | 0.01 | 58.50 | 139.77 | 1.03 | 0.65 | 1.00 | 0.01 |
| 58.56 | 138.70 | 1.01 | 0.65 | 1.00 | 0.00 | 58.64 | 140.28 | 1.04 | 0.64 | 1.00 | 0.01 |
| 58.73 | 145.16 | 1.12 | 0.43 | 1.00 | 0.00 | 58.78 | 145.87 | 1.14 | 0.43 | 1.00 | 0.00 |
| 58.88 | 147.98 | 1.18 | 0.31 | 1.00 | 0.00 | 58.97 | 149.10 | 1.20 | 0.31 | 1.00 | 0.00 |
| 59.07 | 147.53 | 1.17 | 0.31 | 1.00 | 0.00 | 59.13 | 143.73 | 1.10 | 0.44 | 1.00 | 0.00 |
| 59.23 | 140.99 | 1.05 | 0.44 | 1.00 | 0.01 | 59.31 | 134.94 | 0.95 | 0.67 | 1.00 | 0.01 |
| 59.38 | 130.71 | 0.89 | 1.05 | 1.00 | 0.01 | 59.41 | 127.40 | 0.84 | 1.43 | 1.00 | 0.01 |
| 59.46 | 128.62 | 0.86 | 1.08 | 1.00 | 0.01 | 59.51 | 128.55 | 0.86 | 1.08 | 1.00 | 0.01 |
| 59.57 | 130.91 | 0.89 | 1.05 | 1.00 | 0.01 | 59.66 | 136.37 | 0.98 | 0.66 | 1.00 | 0.01 |
| 59.75 | 142.44 | 1.08 | 0.44 | 1.00 | 0.00 | 59.80 | 147.84 | 1.18 | 0.31 | 1.00 | 0.00 |
| 59.85 | 156.99 | 1.36 | 0.00 | 1.00 | 0.00 | 59.91 | 158.02 | 1.39 | 0.00 | 1.00 | 0.00 |
| 59.99 | 159.53 | 1.42 | 0.00 | 1.00 | 0.00 | 60.05 | 161.59 | 1.47 | 0.00 | 1.00 | 0.00 |
| 60.09 | 160.52 | 1.44 | 0.00 | 1.00 | 0.00 | 60.14 | 156.08 | 1.35 | 0.21 | 1.00 | 0.00 |
| 60.19 | 153.23 | 1.29 | 0.21 | 1.00 | 0.00 | 60.22 | 151.55 | 1.25 | 0.22 | 1.00 | 0.00 |
| 60.28 | 145.94 | 1.15 | 0.43 | 1.00 | 0.00 | 60.33 | 137.48 | 1.00 | 0.66 | 1.00 | 0.00 |
| 60.38 | 126.83 | 0.84 | 1.44 | 1.00 | 0.01 | 60.42 | 119.65 | 0.74 | 1.91 | 1.00 | 0.01 |
| 60.48 | 111.02 | 0.64 | 2.14 | 1.00 | 0.02 | 60.57 | 101.50 | 0.55 | 2.31 | 1.00 | 0.02 |
| 60.66 | 91.67 | 0.47 | 2.51 | 1.00 | 0.03 | 60.68 | 85.85 | 0.43 | 2.65 | 1.00 | 0.01 |
| 60.69 | 82.84 | 0.41 | 2.73 | 1.00 | 0.00 | 60.74 | 80.07 | 0.40 | 2.80 | 1.00 | 0.02 |
| 60.79 | 76.18 | 0.38 | 2.92 | 1.00 | 0.02 | 60.84 | 71.82 | 0.36 | 3.07 | 1.00 | 0.02 |
| 60.89 | 68.64 | 0.34 | 3.18 | 1.00 | 0.02 | 60.98 | 66.57 | 0.33 | 3.26 | 1.00 | 0.04 |
| 61.03 | 69.19 | 0.35 | 3.16 | 1.00 | 0.02 | 61.08 | 79.69 | 0.40 | 2.81 | 1.00 | 0.02 |
| 61.18 | 90.12 | 0.46 | 2.54 | 1.00 | 0.03 | 61.23 | 100.04 | 0.54 | 2.34 | 1.00 | 0.02 |
| 61.31 | 94.03 | 0.49 | 2.46 | 1.00 | 0.02 | 61.42 | 94.11 | 0.49 | 2.46 | 1.00 | 0.03 |
| 61.47 | 100.64 | 0.55 | 2.32 | 1.00 | 0.01 | 61.51 | 107.25 | 0.61 | 2.21 | 1.00 | 0.01 |
| 61.54 | 108.54 | 0.62 | 2.18 | 1.00 | 0.01 | 61.57 | 112.23 | 0.66 | 2.09 | 1.00 | 0.01 |
| 61.58 | 118.74 | 0.74 | 1.93 | 1.00 | 0.00 | 61.61 | 111.49 | 0.65 | 2.11 | 1.00 | 0.01 |
| 61.63 | 107.07 | 0.61 | 2.21 | 1.00 | 0.00 | 61.63 | 91.77 | 0.47 | 2.51 | 1.00 | 0.00 |
| 61.66 | 79.27 | 0.39 | 2.83 | 1.00 | 0.01 | 61.67 | 85.35 | 0.43 | 2.66 | 1.00 | 0.00 |
| 61.70 | 83.80 | 0.42 | 2.70 | 1.00 | 0.01 | 61.71 | 84.55 | 0.43 | 2.68 | 1.00 | 0.00 |
| 61.76 | 87.45 | 0.44 | 2.61 | 1.00 | 0.01 | 61.80 | 91.10 | 0.47 | 2.52 | 1.00 | 0.01 |
| 61.84 | 94.04 | 0.49 | 2.46 | 1.00 | 0.01 | 61.86 | 98.87 | 0.53 | 2.36 | 1.00 | 0.01 |
| 61.93 | 103.69 | 0.57 | 2.27 | 1.00 | 0.02 | 61.98 | 100.92 | 0.55 | 2.32 | 1.00 | 0.01 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 62.04 | 114.48 | 0.69 | 2.03 | 1.00 | 0.01 | 62.09 | 127.59 | 0.86 | 1.09 | 1.00 | 0.01 |
| 62.14 | 136.10 | 0.98 | 0.66 | 1.00 | 0.00 | 62.19 | 140.93 | 1.07 | 0.44 | 1.00 | 0.00 |
| 62.24 | 143.65 | 1.11 | 0.44 | 1.00 | 0.00 | 62.26 | 146.58 | 1.17 | 0.31 | 1.00 | 0.00 |
| 62.29 | 146.46 | 1.17 | 0.31 | 1.00 | 0.00 | 62.38 | 145.37 | 1.15 | 0.43 | 1.00 | 0.00 |
| 62.44 | 138.07 | 1.02 | 0.65 | 1.00 | 0.00 | 62.46 | 132.02 | 0.92 | 1.04 | 1.00 | 0.00 |
| 62.47 | 126.07 | 0.84 | 1.45 | 1.00 | 0.00 | 62.51 | 127.59 | 0.86 | 1.09 | 1.00 | 0.01 |
| 62.56 | 130.45 | 0.90 | 1.06 | 1.00 | 0.01 | 62.60 | 134.26 | 0.96 | 0.67 | 1.00 | 0.00 |
| 62.65 | 135.35 | 0.97 | 0.67 | 1.00 | 0.00 | 62.70 | 135.46 | 0.98 | 0.67 | 1.00 | 0.00 |
| 62.75 | 135.59 | 0.98 | 0.67 | 1.00 | 0.00 | 62.80 | 138.85 | 1.03 | 0.65 | 1.00 | 0.00 |
| 62.85 | 147.40 | 1.19 | 0.31 | 1.00 | 0.00 | 62.89 | 159.73 | 1.44 | 0.00 | 1.00 | 0.00 |
| 62.97 | 173.86 | 1.79 | 0.00 | 1.00 | 0.00 | 63.04 | 187.32 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.09 | 197.18 | 2.00 | 0.00 | 1.00 | 0.00 | 63.13 | 200.57 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.19 | 200.74 | 2.00 | 0.00 | 1.00 | 0.00 | 63.23 | 201.69 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.28 | 203.42 | 2.00 | 0.00 | 1.00 | 0.00 | 63.32 | 204.02 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.38 | 202.89 | 2.00 | 0.00 | 1.00 | 0.00 | 63.44 | 203.06 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.52 | 199.75 | 2.00 | 0.00 | 1.00 | 0.00 | 63.57 | 194.57 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.66 | 183.79 | 2.00 | 0.00 | 1.00 | 0.00 | 63.73 | 148.76 | 1.22 | 0.31 | 1.00 | 0.00 |
| 63.76 | 130.54 | 0.90 | 1.06 | 1.00 | 0.00 | 63.76 | 127.66 | 0.86 | 1.09 | 1.00 | 0.00 |
| 63.78 | 131.02 | 0.91 | 1.05 | 1.00 | 0.00 | 63.81 | 142.46 | 1.10 | 0.44 | 1.00 | 0.00 |
| 63.85 | 146.19 | 1.17 | 0.31 | 1.00 | 0.00 | 63.86 | 145.10 | 1.15 | 0.43 | 1.00 | 0.00 |
| 63.91 | 148.35 | 1.21 | 0.31 | 1.00 | 0.00 | 63.94 | 150.35 | 1.25 | 0.31 | 1.00 | 0.00 |
| 63.95 | 151.38 | 1.27 | 0.22 | 1.00 | 0.00 | 64.00 | 150.67 | 1.26 | 0.22 | 1.00 | 0.00 |
| 64.02 | 149.37 | 1.23 | 0.31 | 1.00 | 0.00 | 64.05 | 148.02 | 1.20 | 0.31 | 1.00 | 0.00 |
| 64.09 | 146.64 | 1.18 | 0.31 | 1.00 | 0.00 | 64.11 | 144.77 | 1.14 | 0.43 | 1.00 | 0.00 |
| 64.15 | 142.44 | 1.10 | 0.44 | 1.00 | 0.00 | 64.20 | 141.24 | 1.08 | 0.44 | 1.00 | 0.00 |
| 64.25 | 141.74 | 1.09 | 0.44 | 1.00 | 0.00 | 64.29 | 148.11 | 1.21 | 0.31 | 1.00 | 0.00 |
| 64.34 | 157.68 | 1.40 | 0.00 | 1.00 | 0.00 | 64.43 | 167.40 | 1.63 | 0.00 | 1.00 | 0.00 |
| 64.48 | 174.30 | 1.81 | 0.00 | 1.00 | 0.00 | 64.53 | 177.47 | 1.90 | 0.00 | 1.00 | 0.00 |
| 64.58 | 180.82 | 1.99 | 0.00 | 1.00 | 0.00 | 64.63 | 187.83 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.68 | 195.77 | 2.00 | 0.00 | 1.00 | 0.00 | 64.73 | 198.20 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.77 | 202.79 | 2.00 | 0.00 | 1.00 | 0.00 | 64.82 | 207.01 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.87 | 201.76 | 2.00 | 0.00 | 1.00 | 0.00 | 64.89 | 196.56 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.93 | 189.73 | 2.00 | 0.00 | 1.00 | 0.00 | 64.94 | 196.96 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.98 | 199.62 | 2.00 | 0.00 | 1.00 | 0.00 | 64.99 | 201.90 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.03 | 201.35 | 2.00 | 0.00 | 1.00 | 0.00 | 65.08 | 199.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.13 | 196.50 | 2.00 | 0.00 | 1.00 | 0.00 | 65.17 | 193.13 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.22 | 189.08 | 2.00 | 0.00 | 1.00 | 0.00 | 65.23 | 186.93 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.28 | 186.22 | 2.00 | 0.00 | 1.00 | 0.00 | 65.32 | 186.24 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.37 | 186.30 | 2.00 | 0.00 | 1.00 | 0.00 | 65.42 | 187.42 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.47 | 183.76 | 2.00 | 0.00 | 1.00 | 0.00 | 65.48 | 179.77 | 1.97 | 0.00 | 1.00 | 0.00 |
| 65.49 | 174.70 | 1.83 | 0.00 | 1.00 | 0.00 | 65.52 | 174.01 | 1.81 | 0.00 | 1.00 | 0.00 |
| 65.57 | 176.43 | 1.88 | 0.00 | 1.00 | 0.00 | 65.62 | 180.61 | 1.99 | 0.00 | 1.00 | 0.00 |
| 65.67 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 65.69 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.72 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 65.77 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.82 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 65.86 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.86 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 65.91 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.96 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | | | | | | |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|

**Total estimated settlement: 2.34**

**Abbreviations**

| | |
|---|---|
| $Q_{tn,cs}$: | Equivalent clean sand normalized cone resistance |
| FS: | Factor of safety against liquefaction |
| $e_v$ (%): | Post-liquefaction volumentric strain |
| DF: | $e_v$ depth weighting factor |
| Settlement: | Calculated settlement |

**:: Strength loss calculation (Robertson (2009) ::**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 0.01 | -0.03 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.04 | -0.03 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.08 | -0.07 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.10 | -0.03 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.13 | -0.03 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.18 | 0.00 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.22 | 0.00 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 0.27 | 0.81 | 1.28 | 50.14 | 63.98 | 4.01 | 4.89 | 3.60 |
| 0.33 | 2.77 | 4.42 | 15.47 | 68.30 | 3.31 | 5.08 | 10.70 |
| 0.36 | 5.16 | 8.26 | 7.99 | 66.07 | 2.95 | 0.18 | 0.67 |
| 0.37 | 7.12 | 11.41 | 5.40 | 61.61 | 2.76 | 0.13 | 0.66 |
| 0.38 | 8.20 | 13.14 | 4.58 | 60.15 | 2.69 | 0.11 | 0.66 |
| 0.42 | 9.38 | 15.03 | 3.98 | 59.88 | 2.63 | 0.11 | 0.66 |
| 0.44 | 10.59 | 16.98 | 3.58 | 60.79 | 2.58 | 0.12 | 0.66 |
| 0.47 | 12.18 | 19.53 | 3.09 | 60.26 | 2.52 | 0.12 | 0.66 |
| 0.47 | 14.24 | 22.83 | 2.61 | 59.51 | 2.44 | 0.11 | 0.66 |
| 0.52 | 17.00 | 27.27 | 2.14 | 58.39 | 2.35 | 0.10 | 0.65 |
| 0.56 | 20.48 | 32.85 | 1.78 | 58.60 | 2.26 | 0.10 | 0.65 |
| 0.58 | 24.93 | 40.00 | 1.52 | 60.77 | 2.16 | 0.12 | 0.66 |
| 0.61 | 30.70 | 49.27 | 1.35 | 66.61 | 2.05 | 0.19 | 0.67 |
| 0.66 | 36.94 | 59.30 | 1.27 | 75.22 | 1.95 | 0.39 | 0.70 |
| 0.76 | 40.79 | 65.47 | 1.23 | 80.72 | 1.89 | 0.62 | 0.71 |
| 0.80 | 38.66 | 62.05 | 1.25 | 77.85 | 1.93 | 0.49 | 0.70 |
| 0.81 | 35.49 | 56.95 | 1.29 | 73.41 | 1.98 | 0.34 | 0.69 |
| 0.85 | 32.42 | 52.02 | 1.33 | 69.37 | 2.03 | 0.24 | 0.68 |
| 0.86 | 32.79 | 52.62 | 1.33 | 69.99 | 2.03 | 0.25 | 0.68 |
| 0.90 | 32.22 | 51.69 | 1.35 | 70.01 | 2.05 | 0.25 | 0.68 |
| 0.95 | 31.82 | 51.04 | 1.38 | 70.34 | 2.07 | 0.26 | 0.68 |
| 1.00 | 30.53 | 48.97 | 1.37 | 67.09 | 2.06 | 0.20 | 0.68 |
| 1.05 | 28.88 | 46.31 | 1.34 | 62.22 | 2.04 | 0.14 | 0.66 |
| 1.14 | 26.55 | 42.56 | 1.00 | 42.56 | 2.01 | 0.03 | 0.62 |
| 1.24 | 24.29 | 38.92 | 1.00 | 38.92 | 2.04 | 0.03 | 0.62 |
| 1.31 | 20.51 | 32.85 | 1.00 | 32.85 | 2.14 | 0.02 | 0.62 |
| 1.36 | 17.93 | 28.70 | 1.67 | 48.03 | 2.22 | 0.05 | 0.62 |
| 1.37 | 17.77 | 28.44 | 1.71 | 48.50 | 2.23 | 0.05 | 0.62 |
| 1.39 | 18.54 | 29.68 | 1.64 | 48.64 | 2.21 | 0.05 | 0.62 |
| 1.43 | 19.03 | 30.46 | 1.60 | 48.73 | 2.19 | 0.05 | 0.62 |
| 1.44 | 18.05 | 28.88 | 1.68 | 48.54 | 2.23 | 0.05 | 0.62 |
| 1.49 | 18.35 | 29.36 | 1.67 | 49.05 | 2.22 | 0.05 | 0.62 |
| 1.53 | 18.89 | 30.23 | 1.66 | 50.30 | 2.22 | 0.05 | 0.63 |
| 1.58 | 19.67 | 31.47 | 1.66 | 52.29 | 2.22 | 0.06 | 0.63 |
| 1.63 | 20.62 | 32.99 | 1.66 | 54.77 | 2.22 | 0.08 | 0.64 |
| 1.68 | 21.70 | 34.72 | 1.65 | 57.36 | 2.21 | 0.09 | 0.65 |
| 1.72 | 23.31 | 37.31 | 1.61 | 60.04 | 2.20 | 0.11 | 0.66 |
| 1.77 | 25.48 | 40.78 | 1.54 | 62.93 | 2.17 | 0.14 | 0.66 |
| 1.82 | 28.31 | 45.33 | 1.46 | 66.36 | 2.13 | 0.19 | 0.67 |
| 1.86 | 31.52 | 50.48 | 1.40 | 70.45 | 2.08 | 0.26 | 0.68 |
| 1.92 | 35.09 | 56.22 | 1.34 | 75.14 | 2.03 | 0.39 | 0.70 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 1.97 | 38.67 | 61.96 | 1.29 | 80.21 | 1.98 | 0.59 | 0.71 |
| 2.01 | 41.61 | 66.68 | 1.27 | 84.88 | 1.95 | 0.72 | 0.72 |
| 2.09 | 43.22 | 69.27 | 1.26 | 87.55 | 1.94 | 0.72 | 0.72 |
| 2.16 | 43.05 | 68.99 | 1.27 | 87.53 | 1.95 | 0.72 | 0.72 |
| 2.20 | 41.47 | 66.43 | 1.28 | 85.02 | 1.96 | 0.72 | 0.72 |
| 2.25 | 39.85 | 63.83 | 1.29 | 82.39 | 1.98 | 0.71 | 0.71 |
| 2.31 | 38.60 | 61.82 | 1.30 | 80.09 | 1.99 | 0.59 | 0.71 |
| 2.37 | 37.79 | 60.52 | 1.29 | 78.32 | 1.98 | 0.51 | 0.70 |
| 2.40 | 36.88 | 59.05 | 1.30 | 76.51 | 1.99 | 0.44 | 0.70 |
| 2.46 | 35.97 | 57.57 | 1.29 | 74.55 | 1.98 | 0.37 | 0.69 |
| 2.54 | 35.36 | 56.59 | 1.29 | 72.87 | 1.97 | 0.32 | 0.69 |
| 2.59 | 34.69 | 55.51 | 1.00 | 55.51 | 1.96 | 0.08 | 0.64 |
| 2.69 | 34.25 | 54.80 | 1.00 | 54.80 | 1.94 | 0.08 | 0.64 |
| 2.74 | 33.95 | 54.31 | 1.00 | 54.31 | 1.92 | 0.07 | 0.64 |
| 2.83 | 33.88 | 54.19 | 1.00 | 54.19 | 1.92 | 0.07 | 0.64 |
| 2.88 | 34.35 | 54.94 | 1.00 | 54.94 | 1.91 | 0.08 | 0.64 |
| 2.98 | 35.70 | 57.10 | 1.00 | 57.10 | 1.89 | 0.09 | 0.65 |
| 3.03 | 38.57 | 61.71 | 1.00 | 61.71 | 1.85 | 0.13 | 0.66 |
| 3.12 | 42.31 | 67.72 | 1.00 | 67.72 | 1.82 | 0.21 | 0.68 |
| 3.21 | 46.83 | 74.97 | 1.00 | 74.97 | 1.79 | 0.38 | 0.70 |
| 3.27 | 51.66 | 82.72 | 1.00 | 82.72 | 1.76 | 0.71 | 0.71 |
| 3.34 | 57.05 | 91.38 | 1.00 | 91.38 | 1.72 | 0.73 | 0.73 |
| 3.41 | 61.91 | 99.18 | 1.00 | 99.18 | 1.69 | 0.75 | 0.75 |
| 3.51 | 64.20 | 102.85 | 1.00 | 102.85 | 1.68 | 0.75 | 0.75 |
| 3.55 | 63.63 | 101.93 | 1.00 | 101.93 | 1.70 | 0.75 | 0.75 |
| 3.65 | 62.42 | 99.97 | 1.00 | 99.97 | 1.72 | 0.75 | 0.75 |
| 3.75 | 61.71 | 98.83 | 1.00 | 98.83 | 1.73 | 0.75 | 0.75 |
| 3.83 | 61.44 | 98.39 | 1.00 | 98.39 | 1.73 | 0.75 | 0.75 |
| 3.94 | 61.11 | 97.84 | 1.00 | 97.84 | 1.73 | 0.74 | 0.74 |
| 4.04 | 60.30 | 96.53 | 1.00 | 96.53 | 1.73 | 0.74 | 0.74 |
| 4.13 | 60.63 | 97.06 | 1.08 | 104.72 | 1.75 | 0.76 | 0.76 |
| 4.24 | 61.68 | 98.73 | 1.00 | 98.73 | 1.74 | 0.75 | 0.75 |
| 4.38 | 65.15 | 104.30 | 1.00 | 104.30 | 1.68 | 0.76 | 0.76 |
| 4.50 | 68.93 | 110.36 | 1.00 | 110.36 | 1.62 | 0.77 | 0.77 |
| 4.62 | 74.13 | 118.70 | 1.00 | 118.70 | 1.57 | 0.78 | 0.78 |
| 4.71 | 77.89 | 124.73 | 1.00 | 124.73 | 1.57 | 0.79 | 0.79 |
| 4.75 | 80.93 | 129.61 | 1.00 | 129.61 | 1.57 | 0.80 | 0.80 |
| 4.84 | 82.11 | 131.50 | 1.00 | 131.50 | 1.58 | 0.80 | 0.80 |
| 4.89 | 82.93 | 132.82 | 1.00 | 132.82 | 1.58 | 0.80 | 0.80 |
| 4.94 | 82.93 | 132.82 | 1.00 | 132.82 | 1.58 | 0.80 | 0.80 |
| 4.98 | 81.72 | 130.87 | 1.00 | 130.87 | 1.59 | 0.80 | 0.80 |
| 5.07 | 80.10 | 128.25 | 1.00 | 128.25 | 1.60 | 0.80 | 0.80 |
| 5.13 | 78.48 | 125.65 | 1.00 | 125.65 | 1.61 | 0.79 | 0.79 |
| 5.17 | 76.79 | 122.93 | 1.00 | 122.93 | 1.61 | 0.79 | 0.79 |
| 5.27 | 74.77 | 119.67 | 1.00 | 119.67 | 1.62 | 0.78 | 0.78 |
| 5.32 | 72.75 | 116.42 | 1.00 | 116.42 | 1.63 | 0.78 | 0.78 |
| 5.42 | 70.86 | 113.37 | 1.00 | 113.37 | 1.64 | 0.77 | 0.77 |
| 5.46 | 69.34 | 110.93 | 1.00 | 110.93 | 1.64 | 0.77 | 0.77 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 5.56 | 68.02 | 108.80 | 1.00 | 108.80 | 1.65 | 0.76 | 0.76 |
| 5.61 | 66.87 | 106.96 | 1.00 | 106.96 | 1.66 | 0.76 | 0.76 |
| 5.71 | 65.86 | 105.32 | 1.00 | 105.32 | 1.66 | 0.76 | 0.76 |
| 5.78 | 64.92 | 103.80 | 1.00 | 103.80 | 1.67 | 0.76 | 0.76 |
| 5.85 | 63.84 | 102.06 | 1.00 | 102.06 | 1.68 | 0.75 | 0.75 |
| 5.95 | 62.83 | 100.42 | 1.00 | 100.42 | 1.69 | 0.75 | 0.75 |
| 6.00 | 62.32 | 99.61 | 1.00 | 99.61 | 1.71 | 0.75 | 0.75 |
| 6.09 | 62.93 | 100.57 | 1.00 | 100.57 | 1.66 | 0.75 | 0.75 |
| 6.14 | 64.75 | 103.50 | 1.00 | 103.50 | 1.60 | 0.75 | 0.75 |
| 6.24 | 67.52 | 107.94 | 1.00 | 107.94 | 1.53 | 0.76 | 0.76 |
| 6.30 | 70.42 | 112.60 | 1.00 | 112.60 | 1.54 | 0.77 | 0.77 |
| 6.38 | 71.40 | 114.16 | 1.00 | 114.16 | 1.56 | 0.77 | 0.77 |
| 6.46 | 69.58 | 111.22 | 1.00 | 111.22 | 1.60 | 0.77 | 0.77 |
| 6.50 | 68.43 | 109.38 | 1.00 | 109.38 | 1.62 | 0.77 | 0.77 |
| 6.56 | 68.84 | 110.02 | 1.00 | 110.02 | 1.63 | 0.77 | 0.77 |
| 6.63 | 71.30 | 113.98 | 1.00 | 113.98 | 1.61 | 0.77 | 0.77 |
| 6.68 | 72.51 | 115.92 | 1.00 | 115.92 | 1.61 | 0.78 | 0.78 |
| 6.76 | 73.49 | 117.34 | 1.00 | 117.34 | 1.61 | 0.78 | 0.78 |
| 6.82 | 74.54 | 118.51 | 1.00 | 118.51 | 1.60 | 0.78 | 0.78 |
| 6.88 | 76.19 | 120.59 | 1.00 | 120.59 | 1.59 | 0.78 | 0.78 |
| 6.96 | 78.38 | 123.33 | 1.00 | 123.33 | 1.58 | 0.79 | 0.79 |
| 7.03 | 80.54 | 126.09 | 1.00 | 126.09 | 1.56 | 0.79 | 0.79 |
| 7.11 | 82.06 | 127.75 | 1.00 | 127.75 | 1.55 | 0.80 | 0.80 |
| 7.16 | 83.04 | 128.83 | 1.00 | 128.83 | 1.55 | 0.80 | 0.80 |
| 7.26 | 83.82 | 129.11 | 1.00 | 129.11 | 1.55 | 0.80 | 0.80 |
| 7.31 | 84.43 | 129.55 | 1.00 | 129.55 | 1.56 | 0.80 | 0.80 |
| 7.40 | 84.63 | 129.06 | 1.00 | 129.06 | 1.56 | 0.80 | 0.80 |
| 7.45 | 84.52 | 128.43 | 1.00 | 128.43 | 1.56 | 0.80 | 0.80 |
| 7.54 | 83.95 | 126.75 | 1.00 | 126.75 | 1.57 | 0.79 | 0.79 |
| 7.60 | 82.84 | 124.58 | 1.00 | 124.58 | 1.58 | 0.79 | 0.79 |
| 7.68 | 81.22 | 121.42 | 1.00 | 121.42 | 1.59 | 0.79 | 0.79 |
| 7.74 | 79.70 | 118.70 | 1.00 | 118.70 | 1.60 | 0.78 | 0.78 |
| 7.83 | 78.55 | 116.27 | 1.00 | 116.27 | 1.61 | 0.78 | 0.78 |
| 7.90 | 78.35 | 115.47 | 1.00 | 115.47 | 1.61 | 0.78 | 0.78 |
| 7.98 | 79.10 | 115.95 | 1.00 | 115.95 | 1.62 | 0.78 | 0.78 |
| 8.05 | 80.62 | 117.66 | 1.00 | 117.66 | 1.62 | 0.78 | 0.78 |
| 8.12 | 81.69 | 118.66 | 1.00 | 118.66 | 1.62 | 0.78 | 0.78 |
| 8.19 | 81.66 | 118.08 | 1.00 | 118.08 | 1.62 | 0.78 | 0.78 |
| 8.27 | 80.48 | 115.81 | 1.00 | 115.81 | 1.64 | 0.78 | 0.78 |
| 8.36 | 79.13 | 113.39 | 1.00 | 113.39 | 1.65 | 0.77 | 0.77 |
| 8.41 | 78.35 | 111.75 | 1.00 | 111.75 | 1.61 | 0.77 | 0.77 |
| 8.50 | 78.42 | 111.21 | 1.00 | 111.21 | 1.57 | 0.77 | 0.77 |
| 8.60 | 78.79 | 111.10 | 1.00 | 111.10 | 1.54 | 0.77 | 0.77 |
| 8.70 | 78.76 | 110.43 | 1.00 | 110.43 | 1.56 | 0.77 | 0.77 |
| 8.74 | 70.97 | 99.16 | 1.00 | 99.16 | 1.64 | 0.75 | 0.75 |
| 8.78 | 65.57 | 92.36 | 1.00 | 92.36 | 1.68 | 0.73 | 0.73 |
| 8.81 | 63.58 | 89.84 | 1.00 | 89.84 | 1.71 | 0.73 | 0.73 |
| 8.86 | 69.75 | 97.38 | 1.00 | 97.38 | 1.66 | 0.74 | 0.74 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 8.91 | 73.77 | 102.14 | 1.00 | 102.14 | 1.64 | 0.75 | 0.75 |
| 8.94 | 74.34 | 102.81 | 1.00 | 102.81 | 1.64 | 0.75 | 0.75 |
| 9.02 | 73.80 | 101.95 | 1.00 | 101.95 | 1.66 | 0.75 | 0.75 |
| 9.10 | 72.52 | 100.12 | 1.00 | 100.12 | 1.68 | 0.75 | 0.75 |
| 9.17 | 71.17 | 98.18 | 1.00 | 98.18 | 1.69 | 0.74 | 0.74 |
| 9.22 | 69.95 | 96.47 | 1.00 | 96.47 | 1.70 | 0.74 | 0.74 |
| 9.31 | 69.01 | 94.84 | 1.00 | 94.84 | 1.71 | 0.74 | 0.74 |
| 9.37 | 68.50 | 93.92 | 1.00 | 93.92 | 1.72 | 0.74 | 0.74 |
| 9.42 | 68.60 | 93.81 | 1.00 | 93.81 | 1.72 | 0.74 | 0.74 |
| 9.52 | 69.18 | 94.01 | 1.00 | 94.01 | 1.72 | 0.74 | 0.74 |
| 9.60 | 70.19 | 94.84 | 1.00 | 94.84 | 1.71 | 0.74 | 0.74 |
| 9.66 | 71.54 | 96.20 | 1.00 | 96.20 | 1.70 | 0.74 | 0.74 |
| 9.74 | 73.13 | 97.75 | 1.00 | 97.75 | 1.69 | 0.74 | 0.74 |
| 9.81 | 74.58 | 99.20 | 1.00 | 99.20 | 1.69 | 0.75 | 0.75 |
| 9.89 | 75.79 | 100.34 | 1.00 | 100.34 | 1.68 | 0.75 | 0.75 |
| 9.98 | 77.04 | 101.50 | 1.00 | 101.50 | 1.68 | 0.75 | 0.75 |
| 10.03 | 78.79 | 103.47 | 1.00 | 103.47 | 1.68 | 0.75 | 0.75 |
| 10.13 | 81.26 | 106.04 | 1.00 | 106.04 | 1.67 | 0.76 | 0.76 |
| 10.23 | 84.06 | 108.97 | 1.00 | 108.97 | 1.66 | 0.76 | 0.76 |
| 10.32 | 86.45 | 111.33 | 1.00 | 111.33 | 1.65 | 0.77 | 0.77 |
| 10.38 | 88.11 | 112.97 | 1.00 | 112.97 | 1.65 | 0.77 | 0.77 |
| 10.47 | 88.68 | 113.17 | 1.00 | 113.17 | 1.65 | 0.77 | 0.77 |
| 10.57 | 88.44 | 112.36 | 1.00 | 112.36 | 1.65 | 0.77 | 0.77 |
| 10.66 | 87.94 | 111.05 | 1.00 | 111.05 | 1.61 | 0.77 | 0.77 |
| 10.76 | 87.67 | 110.18 | 1.00 | 110.18 | 1.57 | 0.77 | 0.77 |
| 10.85 | 88.00 | 110.11 | 1.00 | 110.11 | 1.53 | 0.77 | 0.77 |
| 10.92 | 88.54 | 110.44 | 1.00 | 110.44 | 1.55 | 0.77 | 0.77 |
| 11.00 | 85.17 | 105.80 | 1.00 | 105.80 | 1.58 | 0.76 | 0.76 |
| 11.07 | 82.17 | 101.74 | 1.00 | 101.74 | 1.61 | 0.75 | 0.75 |
| 11.10 | 80.21 | 99.18 | 1.00 | 99.18 | 1.63 | 0.75 | 0.75 |
| 11.15 | 82.81 | 102.16 | 1.00 | 102.16 | 1.62 | 0.75 | 0.75 |
| 11.19 | 85.41 | 105.18 | 1.00 | 105.18 | 1.61 | 0.76 | 0.76 |
| 11.24 | 87.43 | 107.45 | 1.00 | 107.45 | 1.61 | 0.76 | 0.76 |
| 11.29 | 89.66 | 109.95 | 1.00 | 109.95 | 1.61 | 0.77 | 0.77 |
| 11.34 | 92.29 | 112.96 | 1.00 | 112.96 | 1.60 | 0.77 | 0.77 |
| 11.40 | 94.89 | 115.81 | 1.00 | 115.81 | 1.60 | 0.78 | 0.78 |
| 11.47 | 96.81 | 117.83 | 1.00 | 117.83 | 1.60 | 0.78 | 0.78 |
| 11.53 | 97.72 | 118.60 | 1.00 | 118.60 | 1.60 | 0.78 | 0.78 |
| 11.58 | 98.23 | 118.97 | 1.00 | 118.97 | 1.60 | 0.78 | 0.78 |
| 11.65 | 98.70 | 119.16 | 1.00 | 119.16 | 1.61 | 0.78 | 0.78 |
| 11.72 | 99.17 | 119.34 | 1.00 | 119.34 | 1.61 | 0.78 | 0.78 |
| 11.77 | 99.00 | 118.88 | 1.00 | 118.88 | 1.61 | 0.78 | 0.78 |
| 11.82 | 98.36 | 117.83 | 1.00 | 117.83 | 1.62 | 0.78 | 0.78 |
| 11.88 | 97.25 | 116.19 | 1.00 | 116.19 | 1.64 | 0.78 | 0.78 |
| 11.97 | 96.10 | 114.49 | 1.00 | 114.49 | 1.65 | 0.77 | 0.77 |
| 12.02 | 94.75 | 112.75 | 1.00 | 112.75 | 1.65 | 0.77 | 0.77 |
| 12.06 | 93.54 | 110.95 | 1.00 | 110.95 | 1.65 | 0.77 | 0.77 |
| 12.11 | 93.03 | 110.11 | 1.00 | 110.11 | 1.65 | 0.77 | 0.77 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 12.21 | 92.63 | 109.15 | 1.00 | 109.15 | 1.65 | 0.76 | 0.76 |
| 12.25 | 92.93 | 109.21 | 1.00 | 109.21 | 1.64 | 0.76 | 0.76 |
| 12.30 | 93.00 | 109.05 | 1.00 | 109.05 | 1.64 | 0.76 | 0.76 |
| 12.31 | 93.44 | 109.51 | 1.00 | 109.51 | 1.63 | 0.77 | 0.77 |
| 12.32 | 93.64 | 109.72 | 1.00 | 109.72 | 1.63 | 0.77 | 0.77 |
| 12.35 | 94.21 | 110.25 | 1.00 | 110.25 | 1.62 | 0.77 | 0.77 |
| 12.40 | 95.26 | 111.26 | 1.00 | 111.26 | 1.61 | 0.77 | 0.77 |
| 12.45 | 96.78 | 112.82 | 1.00 | 112.82 | 1.60 | 0.77 | 0.77 |
| 12.52 | 98.43 | 114.40 | 1.00 | 114.40 | 1.60 | 0.77 | 0.77 |
| 12.56 | 100.32 | 116.43 | 1.00 | 116.43 | 1.59 | 0.78 | 0.78 |
| 12.62 | 102.04 | 118.16 | 1.00 | 118.16 | 1.59 | 0.78 | 0.78 |
| 12.65 | 103.69 | 119.90 | 1.00 | 119.90 | 1.56 | 0.78 | 0.78 |
| 12.71 | 105.14 | 121.32 | 1.00 | 121.32 | 1.53 | 0.78 | 0.78 |
| 12.76 | 107.34 | 123.61 | 1.00 | 123.61 | 1.48 | 0.79 | 0.79 |
| 12.83 | 110.34 | 126.74 | 1.00 | 126.74 | 1.48 | 0.79 | 0.79 |
| 12.88 | 114.29 | 131.03 | 1.00 | 131.03 | 1.50 | 0.80 | 0.80 |
| 12.93 | 118.94 | 136.14 | 1.00 | 136.14 | 1.50 | 0.81 | 0.81 |
| 12.98 | 121.44 | 138.73 | 1.00 | 138.73 | 1.52 | 0.81 | 0.81 |
| 13.03 | 123.77 | 141.10 | 1.00 | 141.10 | 1.52 | 0.81 | 0.81 |
| 13.04 | 120.16 | 136.93 | 1.00 | 136.93 | 1.54 | 0.81 | 0.81 |
| 13.07 | 122.72 | 139.66 | 1.00 | 139.66 | 1.54 | 0.81 | 0.81 |
| 13.13 | 125.66 | 142.70 | 1.00 | 142.70 | 1.55 | 0.82 | 0.82 |
| 13.17 | 134.36 | 152.37 | 1.00 | 152.37 | 1.53 | 0.83 | 0.83 |
| 13.22 | 137.87 | 156.08 | 1.00 | 156.08 | 1.53 | 0.84 | 0.84 |
| 13.27 | 140.13 | 158.31 | 1.00 | 158.31 | 1.54 | 0.84 | 0.84 |
| 13.32 | 141.11 | 159.12 | 1.00 | 159.12 | 1.54 | 0.84 | 0.84 |
| 13.37 | 141.28 | 159.00 | 1.00 | 159.00 | 1.55 | 0.84 | 0.84 |
| 13.41 | 140.67 | 158.02 | 1.00 | 158.02 | 1.55 | 0.84 | 0.84 |
| 13.46 | 139.05 | 155.85 | 1.00 | 155.85 | 1.56 | 0.83 | 0.83 |
| 13.51 | 137.63 | 153.98 | 1.00 | 153.98 | 1.57 | 0.83 | 0.83 |
| 13.56 | 135.98 | 151.81 | 1.00 | 151.81 | 1.58 | 0.83 | 0.83 |
| 13.60 | 134.29 | 149.65 | 1.00 | 149.65 | 1.59 | 0.83 | 0.83 |
| 13.66 | 132.81 | 147.65 | 1.00 | 147.65 | 1.60 | 0.82 | 0.82 |
| 13.75 | 131.80 | 145.98 | 1.00 | 145.98 | 1.60 | 0.82 | 0.82 |
| 13.80 | 131.19 | 145.02 | 1.00 | 145.02 | 1.60 | 0.82 | 0.82 |
| 13.89 | 130.75 | 144.01 | 1.00 | 144.01 | 1.61 | 0.82 | 0.82 |
| 13.94 | 129.81 | 142.69 | 1.00 | 142.69 | 1.61 | 0.82 | 0.82 |
| 13.99 | 128.19 | 140.62 | 1.00 | 140.62 | 1.63 | 0.81 | 0.81 |
| 14.09 | 125.39 | 137.21 | 1.00 | 137.21 | 1.65 | 0.81 | 0.81 |
| 14.14 | 122.28 | 133.79 | 1.00 | 133.79 | 1.68 | 0.80 | 0.80 |
| 14.23 | 119.38 | 130.35 | 1.00 | 130.35 | 1.70 | 0.80 | 0.80 |
| 14.28 | 117.19 | 127.54 | 1.00 | 127.54 | 1.68 | 0.79 | 0.79 |
| 14.38 | 116.43 | 125.95 | 1.00 | 125.95 | 1.66 | 0.79 | 0.79 |
| 14.42 | 115.35 | 124.40 | 1.00 | 124.40 | 1.63 | 0.79 | 0.79 |
| 14.52 | 115.79 | 124.40 | 1.00 | 124.40 | 1.63 | 0.79 | 0.79 |
| 14.57 | 116.75 | 125.23 | 1.00 | 125.23 | 1.64 | 0.79 | 0.79 |
| 14.67 | 117.53 | 125.60 | 1.00 | 125.60 | 1.64 | 0.79 | 0.79 |
| 14.68 | 117.83 | 125.93 | 1.00 | 125.93 | 1.64 | 0.79 | 0.79 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 14.70 | 116.41 | 124.39 | 1.00 | 124.39 | 1.65 | 0.79 | 0.79 |
| 14.75 | 116.58 | 124.38 | 1.00 | 124.38 | 1.66 | 0.79 | 0.79 |
| 14.80 | 116.18 | 123.80 | 1.00 | 123.80 | 1.66 | 0.79 | 0.79 |
| 14.89 | 116.21 | 123.45 | 1.00 | 123.45 | 1.67 | 0.79 | 0.79 |
| 14.94 | 114.76 | 121.75 | 1.00 | 121.75 | 1.68 | 0.79 | 0.79 |
| 15.04 | 111.83 | 118.29 | 1.00 | 118.29 | 1.69 | 0.78 | 0.78 |
| 15.13 | 107.24 | 113.18 | 1.01 | 114.51 | 1.71 | 0.77 | 0.77 |
| 15.21 | 101.74 | 107.19 | 1.06 | 113.68 | 1.74 | 0.77 | 0.77 |
| 15.28 | 95.87 | 100.87 | 1.10 | 111.36 | 1.76 | 0.77 | 0.77 |
| 15.38 | 90.00 | 94.46 | 1.14 | 107.63 | 1.79 | 0.76 | 0.76 |
| 15.47 | 83.86 | 87.79 | 1.17 | 102.77 | 1.82 | 0.75 | 0.75 |
| 15.57 | 77.55 | 80.97 | 1.20 | 97.12 | 1.85 | 0.74 | 0.74 |
| 15.67 | 70.76 | 73.71 | 1.23 | 90.52 | 1.89 | 0.73 | 0.73 |
| 15.77 | 63.91 | 66.40 | 1.26 | 83.47 | 1.93 | 0.71 | 0.71 |
| 15.86 | 57.27 | 59.33 | 1.29 | 76.63 | 1.98 | 0.44 | 0.70 |
| 15.96 | 51.73 | 53.45 | 1.34 | 71.45 | 2.03 | 0.29 | 0.69 |
| 16.05 | 47.31 | 48.75 | 1.40 | 68.25 | 2.09 | 0.22 | 0.68 |
| 16.15 | 43.60 | 44.83 | 1.51 | 67.79 | 2.15 | 0.21 | 0.68 |
| 16.25 | 41.11 | 42.13 | 1.63 | 68.47 | 2.20 | 0.22 | 0.68 |
| 16.31 | 39.86 | 40.76 | 1.71 | 69.57 | 2.23 | 0.25 | 0.68 |
| 16.39 | 39.72 | 40.48 | 1.70 | 68.78 | 2.23 | 0.23 | 0.68 |
| 16.48 | 40.50 | 41.08 | 1.65 | 67.59 | 2.21 | 0.21 | 0.68 |
| 16.59 | 43.06 | 43.47 | 1.53 | 66.70 | 2.17 | 0.19 | 0.67 |
| 16.68 | 47.95 | 48.20 | 1.40 | 67.68 | 2.09 | 0.21 | 0.68 |
| 16.76 | 53.89 | 53.96 | 1.31 | 70.90 | 2.01 | 0.27 | 0.69 |
| 16.86 | 58.72 | 58.53 | 1.27 | 74.31 | 1.95 | 0.36 | 0.69 |
| 16.92 | 61.25 | 60.90 | 1.25 | 76.25 | 1.92 | 0.43 | 0.70 |
| 17.02 | 61.65 | 61.10 | 1.25 | 76.36 | 1.92 | 0.43 | 0.70 |
| 17.11 | 61.14 | 60.41 | 1.26 | 76.12 | 1.94 | 0.42 | 0.70 |
| 17.22 | 60.40 | 59.48 | 1.28 | 75.94 | 1.96 | 0.42 | 0.70 |
| 17.35 | 58.51 | 57.44 | 1.34 | 77.19 | 2.04 | 0.46 | 0.70 |
| 17.45 | 53.15 | 52.07 | 1.57 | 81.76 | 2.18 | 0.68 | 0.71 |
| 17.55 | 43.40 | 42.36 | 2.26 | 95.58 | 2.38 | 0.74 | 0.74 |
| 17.61 | 33.92 | 32.93 | 3.48 | 114.42 | 2.57 | 0.77 | 0.77 |
| 17.64 | 27.41 | 26.45 | 4.70 | 124.38 | 2.70 | 0.79 | 0.79 |
| 17.70 | 24.84 | 23.84 | 5.27 | 125.58 | 2.75 | 0.79 | 0.79 |
| 17.75 | 23.12 | 22.09 | 5.71 | 126.01 | 2.79 | 0.79 | 0.79 |
| 17.80 | 22.04 | 20.96 | 6.07 | 127.17 | 2.82 | 0.79 | 0.79 |
| 17.85 | 21.57 | 20.45 | 6.49 | 132.79 | 2.85 | 0.80 | 0.80 |
| 17.94 | 24.37 | 23.10 | 5.83 | 134.72 | 2.80 | 0.81 | 0.81 |
| 17.99 | 29.74 | 28.29 | 4.75 | 134.51 | 2.70 | 0.81 | 0.81 |
| 18.09 | 36.42 | 34.65 | 3.76 | 130.35 | 2.60 | 0.80 | 0.80 |
| 18.15 | 38.34 | 36.42 | 3.61 | 131.44 | 2.58 | 0.80 | 0.80 |
| 18.23 | 36.08 | 34.09 | 3.99 | 135.89 | 2.63 | 0.81 | 0.81 |
| 18.33 | 27.03 | 25.22 | 5.88 | 148.20 | 2.80 | 0.82 | 0.82 |
| 18.43 | 18.43 | 16.85 | 8.99 | 151.54 | 3.01 | 1.12 | 1.20 |
| 18.52 | 11.28 | 9.87 | 14.46 | 142.66 | 3.27 | 0.79 | 0.70 |
| 18.59 | 9.25 | 7.88 | 15.23 | 120.07 | 3.30 | 0.54 | 0.56 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 18.72 | 8.44 | 7.05 | 14.48 | 102.14 | 3.27 | 0.33 | 0.50 |
| 18.81 | 7.87 | 6.47 | 14.17 | 91.69 | 3.26 | 0.29 | 0.46 |
| 18.87 | 7.73 | 6.32 | 14.34 | 90.62 | 3.27 | 0.28 | 0.45 |
| 18.95 | 7.94 | 6.48 | 14.76 | 95.67 | 3.28 | 0.31 | 0.46 |
| 19.05 | 8.95 | 7.39 | 13.77 | 101.75 | 3.24 | 0.40 | 0.53 |
| 19.14 | 11.32 | 9.56 | 10.96 | 104.74 | 3.12 | 0.45 | 0.68 |
| 19.22 | 15.43 | 13.37 | 7.56 | 101.14 | 2.92 | 0.75 | 0.75 |
| 19.29 | 23.29 | 20.64 | 4.44 | 91.70 | 2.67 | 0.73 | 0.73 |
| 19.38 | 36.79 | 33.12 | 2.43 | 80.52 | 2.41 | 0.61 | 0.71 |
| 19.44 | 54.77 | 49.78 | 1.63 | 81.04 | 2.21 | 0.64 | 0.71 |
| 19.53 | 73.63 | 67.13 | 1.37 | 92.11 | 2.06 | 0.73 | 0.73 |
| 19.62 | 89.35 | 81.50 | 1.30 | 105.61 | 1.99 | 0.76 | 0.76 |
| 19.69 | 100.62 | 91.73 | 1.27 | 116.28 | 1.95 | 0.78 | 0.78 |
| 19.79 | 106.79 | 97.11 | 1.26 | 122.62 | 1.94 | 0.79 | 0.79 |
| 19.86 | 108.17 | 98.11 | 1.28 | 125.15 | 1.96 | 0.79 | 0.79 |
| 19.97 | 105.91 | 95.65 | 1.30 | 124.06 | 1.99 | 0.79 | 0.79 |
| 20.07 | 101.09 | 90.89 | 1.33 | 120.48 | 2.02 | 0.78 | 0.78 |
| 20.16 | 94.14 | 84.23 | 1.37 | 115.28 | 2.06 | 0.78 | 0.78 |
| 20.26 | 84.49 | 75.23 | 1.38 | 103.79 | 2.07 | 0.76 | 0.76 |
| 20.34 | 72.68 | 64.34 | 1.43 | 91.71 | 2.10 | 0.73 | 0.73 |
| 20.43 | 59.83 | 52.55 | 1.52 | 80.02 | 2.16 | 0.58 | 0.71 |
| 20.50 | 47.95 | 41.63 | 2.03 | 84.51 | 2.33 | 0.72 | 0.72 |
| 20.60 | 37.70 | 32.23 | 3.01 | 96.91 | 2.50 | 0.74 | 0.74 |
| 20.62 | 30.48 | 25.73 | 4.28 | 110.02 | 2.66 | 0.77 | 0.77 |
| 20.63 | 28.08 | 23.58 | 4.89 | 115.31 | 2.72 | 0.78 | 0.78 |
| 20.68 | 27.74 | 23.22 | 5.10 | 118.43 | 2.74 | 0.78 | 0.78 |
| 20.73 | 27.64 | 23.06 | 5.32 | 122.67 | 2.76 | 0.79 | 0.79 |
| 20.82 | 25.48 | 21.06 | 6.08 | 128.12 | 2.82 | 0.80 | 0.80 |
| 20.87 | 23.45 | 19.23 | 6.78 | 130.45 | 2.87 | 0.80 | 0.80 |
| 20.91 | 21.57 | 17.54 | 7.32 | 128.42 | 2.91 | 0.80 | 0.80 |
| 20.96 | 19.58 | 15.59 | 7.98 | 124.40 | 2.95 | 0.79 | 0.79 |
| 21.05 | 17.59 | 13.84 | 8.82 | 122.12 | 3.00 | 0.63 | 0.99 |
| 21.11 | 16.98 | 13.29 | 9.07 | 120.49 | 3.02 | 0.63 | 0.95 |
| 21.17 | 17.11 | 13.36 | 9.02 | 120.44 | 3.01 | 0.63 | 0.95 |
| 21.25 | 21.23 | 17.01 | 6.86 | 116.62 | 2.88 | 0.78 | 0.78 |
| 21.30 | 31.25 | 25.68 | 4.13 | 106.03 | 2.64 | 0.76 | 0.76 |
| 21.37 | 48.56 | 40.77 | 2.31 | 94.37 | 2.39 | 0.74 | 0.74 |
| 21.45 | 68.84 | 58.49 | 1.62 | 94.86 | 2.20 | 0.74 | 0.74 |
| 21.49 | 87.80 | 75.10 | 1.41 | 105.59 | 2.09 | 0.76 | 0.76 |
| 21.58 | 103.45 | 88.68 | 1.33 | 117.80 | 2.02 | 0.78 | 0.78 |
| 21.64 | 115.70 | 99.28 | 1.29 | 128.46 | 1.98 | 0.80 | 0.80 |
| 21.69 | 124.50 | 106.86 | 1.28 | 136.49 | 1.96 | 0.81 | 0.81 |
| 21.78 | 130.41 | 111.69 | 1.27 | 142.03 | 1.95 | 0.82 | 0.82 |
| 21.83 | 133.78 | 114.42 | 1.27 | 145.79 | 1.96 | 0.82 | 0.82 |
| 21.89 | 135.43 | 115.57 | 1.28 | 148.03 | 1.97 | 0.82 | 0.82 |
| 21.98 | 136.01 | 115.67 | 1.29 | 149.32 | 1.98 | 0.83 | 0.83 |
| 22.03 | 135.90 | 115.31 | 1.30 | 150.06 | 1.99 | 0.83 | 0.83 |
| 22.12 | 134.89 | 114.06 | 1.31 | 149.60 | 2.01 | 0.83 | 0.83 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 22.22 | 133.20 | 112.20 | 1.32 | 148.31 | 2.02 | 0.82 | 0.82 |
| 22.26 | 130.88 | 110.01 | 1.33 | 146.45 | 2.03 | 0.82 | 0.82 |
| 22.36 | 128.38 | 107.52 | 1.34 | 144.21 | 2.04 | 0.82 | 0.82 |
| 22.41 | 125.79 | 105.07 | 1.36 | 142.38 | 2.05 | 0.82 | 0.82 |
| 22.51 | 123.53 | 102.88 | 1.35 | 138.65 | 2.04 | 0.81 | 0.81 |
| 22.60 | 121.33 | 100.82 | 1.34 | 134.71 | 2.03 | 0.81 | 0.81 |
| 22.70 | 119.34 | 98.95 | 1.32 | 130.43 | 2.01 | 0.80 | 0.80 |
| 22.75 | 116.88 | 96.72 | 1.32 | 127.90 | 2.02 | 0.80 | 0.80 |
| 22.84 | 109.32 | 89.92 | 1.36 | 122.31 | 2.05 | 0.79 | 0.79 |
| 22.89 | 107.14 | 87.93 | 1.37 | 120.57 | 2.06 | 0.78 | 0.78 |
| 22.90 | 104.88 | 85.98 | 1.38 | 118.82 | 2.07 | 0.78 | 0.78 |
| 22.94 | 110.11 | 90.42 | 1.34 | 121.26 | 2.04 | 0.78 | 0.78 |
| 23.00 | 112.36 | 92.21 | 1.32 | 122.07 | 2.02 | 0.79 | 0.79 |
| 23.08 | 118.94 | 97.70 | 1.29 | 126.15 | 1.98 | 0.79 | 0.79 |
| 23.13 | 127.04 | 104.57 | 1.26 | 131.91 | 1.94 | 0.80 | 0.80 |
| 23.20 | 134.05 | 110.43 | 1.24 | 136.83 | 1.90 | 0.81 | 0.81 |
| 23.27 | 137.05 | 112.81 | 1.23 | 138.66 | 1.89 | 0.81 | 0.81 |
| 23.33 | 135.57 | 111.40 | 1.23 | 136.90 | 1.89 | 0.81 | 0.81 |
| 23.42 | 131.55 | 107.76 | 1.23 | 132.83 | 1.89 | 0.80 | 0.80 |
| 23.48 | 126.94 | 103.73 | 1.24 | 128.30 | 1.90 | 0.80 | 0.80 |
| 23.57 | 123.16 | 100.30 | 1.24 | 124.68 | 1.91 | 0.79 | 0.79 |
| 23.61 | 121.20 | 98.52 | 1.25 | 122.97 | 1.92 | 0.79 | 0.79 |
| 23.66 | 121.50 | 98.62 | 1.25 | 123.25 | 1.92 | 0.79 | 0.79 |
| 23.73 | 124.04 | 100.52 | 1.25 | 125.44 | 1.92 | 0.79 | 0.79 |
| 23.80 | 127.95 | 103.59 | 1.24 | 128.73 | 1.91 | 0.80 | 0.80 |
| 23.85 | 131.96 | 106.79 | 1.24 | 132.25 | 1.90 | 0.80 | 0.80 |
| 23.94 | 134.80 | 108.87 | 1.24 | 134.50 | 1.90 | 0.81 | 0.81 |
| 24.00 | 135.88 | 109.59 | 1.24 | 135.41 | 1.90 | 0.81 | 0.81 |
| 24.09 | 135.37 | 108.86 | 1.24 | 134.81 | 1.90 | 0.81 | 0.81 |
| 24.16 | 133.34 | 106.93 | 1.24 | 133.09 | 1.91 | 0.80 | 0.80 |
| 24.24 | 130.04 | 104.25 | 1.23 | 128.02 | 1.89 | 0.80 | 0.80 |
| 24.33 | 125.79 | 100.75 | 1.21 | 122.05 | 1.86 | 0.79 | 0.79 |
| 24.43 | 121.10 | 96.90 | 1.19 | 115.53 | 1.84 | 0.78 | 0.78 |
| 24.52 | 114.28 | 90.85 | 1.23 | 111.31 | 1.88 | 0.77 | 0.77 |
| 24.58 | 108.90 | 86.13 | 1.25 | 107.54 | 1.92 | 0.76 | 0.76 |
| 24.59 | 104.52 | 82.40 | 1.27 | 104.41 | 1.95 | 0.76 | 0.76 |
| 24.63 | 104.21 | 82.05 | 1.27 | 104.24 | 1.95 | 0.76 | 0.76 |
| 24.68 | 103.45 | 81.24 | 1.28 | 103.96 | 1.96 | 0.76 | 0.76 |
| 24.77 | 102.47 | 80.14 | 1.29 | 103.52 | 1.98 | 0.75 | 0.75 |
| 24.82 | 100.31 | 78.15 | 1.31 | 102.59 | 2.01 | 0.75 | 0.75 |
| 24.92 | 97.85 | 75.83 | 1.34 | 101.32 | 2.03 | 0.75 | 0.75 |
| 25.01 | 95.22 | 73.42 | 1.36 | 100.09 | 2.06 | 0.75 | 0.75 |
| 25.06 | 92.38 | 70.94 | 1.39 | 98.75 | 2.08 | 0.75 | 0.75 |
| 25.16 | 89.48 | 68.36 | 1.42 | 97.29 | 2.10 | 0.74 | 0.74 |
| 25.25 | 86.51 | 65.75 | 1.46 | 95.92 | 2.13 | 0.74 | 0.74 |
| 25.30 | 83.55 | 63.24 | 1.50 | 94.77 | 2.15 | 0.74 | 0.74 |
| 25.41 | 80.44 | 60.52 | 1.55 | 93.81 | 2.17 | 0.74 | 0.74 |
| 25.49 | 77.27 | 57.80 | 1.61 | 93.24 | 2.20 | 0.74 | 0.74 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 25.55 | 73.97 | 55.02 | 1.70 | 93.42 | 2.23 | 0.74 | 0.74 |
| 25.64 | 70.59 | 52.13 | 1.81 | 94.24 | 2.27 | 0.74 | 0.74 |
| 25.70 | 67.02 | 49.15 | 1.95 | 95.94 | 2.31 | 0.74 | 0.74 |
| 25.79 | 63.24 | 46.00 | 2.13 | 97.75 | 2.35 | 0.74 | 0.74 |
| 25.89 | 58.92 | 42.45 | 2.35 | 99.94 | 2.40 | 0.75 | 0.75 |
| 25.94 | 54.26 | 38.75 | 2.63 | 101.97 | 2.45 | 0.75 | 0.75 |
| 26.02 | 49.37 | 34.89 | 2.95 | 102.81 | 2.50 | 0.75 | 0.75 |
| 26.12 | 45.05 | 31.51 | 3.23 | 101.92 | 2.54 | 0.75 | 0.75 |
| 26.17 | 40.83 | 28.31 | 3.52 | 99.58 | 2.57 | 0.75 | 0.75 |
| 26.28 | 37.02 | 25.37 | 3.84 | 97.30 | 2.61 | 0.74 | 0.74 |
| 26.36 | 33.31 | 22.57 | 4.17 | 94.10 | 2.65 | 0.74 | 0.74 |
| 26.45 | 29.43 | 19.65 | 4.69 | 92.22 | 2.70 | 0.73 | 0.73 |
| 26.50 | 24.94 | 16.31 | 5.63 | 91.86 | 2.78 | 0.73 | 0.73 |
| 26.61 | 20.15 | 12.75 | 7.37 | 93.95 | 2.91 | 0.74 | 0.74 |
| 26.70 | 15.97 | 9.43 | 10.10 | 95.23 | 3.07 | 0.35 | 0.67 |
| 26.77 | 12.97 | 7.45 | 12.95 | 96.46 | 3.21 | 0.35 | 0.53 |
| 26.85 | 11.85 | 6.70 | 14.12 | 94.58 | 3.26 | 0.34 | 0.48 |
| 26.94 | 11.45 | 6.41 | 14.29 | 91.60 | 3.27 | 0.29 | 0.46 |
| 27.04 | 11.95 | 6.71 | 13.15 | 88.25 | 3.22 | 0.28 | 0.48 |
| 27.14 | 12.22 | 6.86 | 12.68 | 86.95 | 3.20 | 0.27 | 0.49 |
| 27.23 | 12.90 | 7.27 | 11.66 | 84.75 | 3.15 | 0.26 | 0.52 |
| 27.28 | 13.22 | 7.46 | 11.13 | 83.02 | 3.13 | 0.24 | 0.53 |
| 27.29 | 13.29 | 7.50 | 10.38 | 77.81 | 3.09 | 0.24 | 0.54 |
| 27.38 | 13.29 | 7.47 | 9.96 | 74.44 | 3.07 | 0.16 | 0.53 |
| 27.48 | 13.27 | 7.43 | 9.89 | 73.48 | 3.06 | 0.18 | 0.53 |
| 27.57 | 13.27 | 7.41 | 10.67 | 79.00 | 3.10 | 0.22 | 0.53 |
| 27.64 | 13.30 | 7.41 | 11.31 | 83.76 | 3.13 | 0.26 | 0.53 |
| 27.65 | 13.44 | 7.49 | 12.08 | 90.43 | 3.17 | 0.27 | 0.53 |
| 27.74 | 14.52 | 8.14 | 11.82 | 96.17 | 3.16 | 0.36 | 0.58 |
| 27.80 | 16.91 | 9.63 | 10.69 | 102.90 | 3.10 | 0.41 | 0.69 |
| 27.90 | 19.17 | 11.00 | 9.59 | 105.58 | 3.05 | 0.48 | 0.79 |
| 27.99 | 19.34 | 11.07 | 9.67 | 106.99 | 3.05 | 0.48 | 0.79 |
| 28.07 | 17.12 | 9.65 | 10.91 | 105.31 | 3.11 | 0.45 | 0.69 |
| 28.16 | 14.45 | 7.96 | 12.63 | 100.58 | 3.20 | 0.39 | 0.57 |
| 28.25 | 12.53 | 6.75 | 13.86 | 93.48 | 3.25 | 0.31 | 0.48 |
| 28.34 | 11.52 | 6.10 | 14.13 | 86.20 | 3.26 | 0.25 | 0.44 |
| 28.44 | 11.01 | 5.76 | 14.19 | 81.77 | 3.26 | 0.21 | 0.41 |
| 28.53 | 10.84 | 5.64 | 14.27 | 80.51 | 3.26 | 0.21 | 0.40 |
| 28.62 | 11.75 | 6.17 | 14.04 | 86.70 | 3.26 | 0.23 | 0.44 |
| 28.76 | 14.21 | 7.64 | 12.54 | 95.81 | 3.19 | 0.35 | 0.55 |
| 28.86 | 17.65 | 9.69 | 11.11 | 107.72 | 3.12 | 0.45 | 0.69 |
| 28.96 | 20.32 | 11.26 | 10.51 | 118.36 | 3.09 | 0.58 | 0.80 |
| 29.08 | 21.30 | 11.80 | 11.10 | 130.98 | 3.12 | 0.70 | 0.84 |
| 29.19 | 22.07 | 12.21 | 11.60 | 141.58 | 3.15 | 0.86 | 0.87 |
| 29.29 | 27.50 | 15.40 | 8.64 | 133.06 | 2.99 | 0.80 | 0.80 |
| 29.39 | 40.70 | 25.08 | 5.15 | 129.21 | 2.74 | 0.80 | 0.80 |
| 29.50 | 57.67 | 36.81 | 3.37 | 124.06 | 2.55 | 0.79 | 0.79 |
| 29.63 | 66.88 | 42.86 | 3.19 | 136.79 | 2.53 | 0.81 | 0.81 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 29.65 | 70.22 | 45.09 | 3.13 | 141.18 | 2.52 | 0.81 | 0.81 |
| 29.66 | 71.00 | 45.61 | 3.10 | 141.50 | 2.52 | 0.82 | 0.82 |
| 29.72 | 73.53 | 47.34 | 2.95 | 139.57 | 2.50 | 0.81 | 0.81 |
| 29.80 | 77.81 | 50.31 | 2.70 | 135.94 | 2.46 | 0.81 | 0.81 |
| 29.85 | 89.49 | 58.79 | 2.17 | 127.49 | 2.36 | 0.79 | 0.79 |
| 29.94 | 111.58 | 75.08 | 1.62 | 121.89 | 2.20 | 0.79 | 0.79 |
| 30.00 | 135.50 | 93.20 | 1.37 | 127.60 | 2.06 | 0.79 | 0.79 |
| 30.05 | 152.98 | 106.83 | 1.28 | 136.43 | 1.96 | 0.81 | 0.81 |
| 30.14 | 162.60 | 114.57 | 1.23 | 140.95 | 1.89 | 0.81 | 0.81 |
| 30.19 | 167.56 | 118.78 | 1.20 | 142.08 | 1.84 | 0.82 | 0.82 |
| 30.24 | 169.61 | 120.45 | 1.18 | 142.19 | 1.83 | 0.82 | 0.82 |
| 30.29 | 169.68 | 120.31 | 1.18 | 142.38 | 1.83 | 0.82 | 0.82 |
| 30.38 | 167.72 | 118.51 | 1.19 | 141.39 | 1.84 | 0.82 | 0.82 |
| 30.43 | 164.79 | 116.05 | 1.20 | 139.76 | 1.85 | 0.81 | 0.81 |
| 30.48 | 161.62 | 113.47 | 1.21 | 137.67 | 1.87 | 0.81 | 0.81 |
| 30.54 | 159.16 | 111.46 | 1.22 | 135.86 | 1.87 | 0.81 | 0.81 |
| 30.62 | 158.35 | 110.69 | 1.22 | 134.98 | 1.87 | 0.81 | 0.81 |
| 30.67 | 157.77 | 110.16 | 1.22 | 134.34 | 1.87 | 0.80 | 0.80 |
| 30.72 | 158.55 | 110.67 | 1.22 | 134.61 | 1.87 | 0.81 | 0.81 |
| 30.76 | 159.46 | 111.32 | 1.21 | 134.89 | 1.86 | 0.81 | 0.81 |
| 30.86 | 162.06 | 113.16 | 1.20 | 135.92 | 1.85 | 0.81 | 0.81 |
| 30.91 | 165.09 | 115.46 | 1.19 | 137.26 | 1.84 | 0.81 | 0.81 |
| 30.95 | 168.94 | 118.37 | 1.17 | 138.94 | 1.82 | 0.81 | 0.81 |
| 31.03 | 173.83 | 122.03 | 1.15 | 140.71 | 1.80 | 0.81 | 0.81 |
| 31.10 | 179.36 | 126.19 | 1.13 | 142.33 | 1.78 | 0.82 | 0.82 |
| 31.15 | 185.03 | 130.44 | 1.10 | 144.07 | 1.76 | 0.82 | 0.82 |
| 31.20 | 189.66 | 133.76 | 1.09 | 146.05 | 1.75 | 0.82 | 0.82 |
| 31.26 | 192.52 | 135.69 | 1.09 | 147.81 | 1.75 | 0.82 | 0.82 |
| 31.34 | 186.22 | 130.42 | 1.13 | 147.23 | 1.78 | 0.82 | 0.82 |
| 31.37 | 184.63 | 129.08 | 1.14 | 146.99 | 1.79 | 0.82 | 0.82 |
| 31.38 | 181.39 | 126.56 | 1.15 | 145.70 | 1.80 | 0.82 | 0.82 |
| 31.43 | 184.63 | 129.02 | 1.13 | 146.17 | 1.78 | 0.82 | 0.82 |
| 31.47 | 179.33 | 124.92 | 1.15 | 143.44 | 1.80 | 0.82 | 0.82 |
| 31.55 | 171.64 | 118.91 | 1.17 | 139.35 | 1.82 | 0.81 | 0.81 |
| 31.59 | 160.34 | 110.19 | 1.21 | 132.93 | 1.86 | 0.80 | 0.80 |
| 31.66 | 147.76 | 100.47 | 1.24 | 124.83 | 1.91 | 0.79 | 0.79 |
| 31.73 | 135.75 | 91.20 | 1.28 | 116.80 | 1.97 | 0.78 | 0.78 |
| 31.78 | 125.08 | 83.04 | 1.33 | 110.36 | 2.02 | 0.77 | 0.77 |
| 31.84 | 115.64 | 75.76 | 1.40 | 106.34 | 2.09 | 0.76 | 0.76 |
| 31.93 | 107.23 | 69.27 | 1.51 | 104.84 | 2.16 | 0.76 | 0.76 |
| 31.98 | 100.42 | 64.06 | 1.66 | 106.04 | 2.22 | 0.76 | 0.76 |
| 32.02 | 98.18 | 62.19 | 1.75 | 108.88 | 2.25 | 0.76 | 0.76 |
| 32.09 | 97.00 | 61.07 | 1.83 | 111.87 | 2.27 | 0.77 | 0.77 |
| 32.16 | 98.89 | 62.18 | 1.83 | 113.86 | 2.27 | 0.77 | 0.77 |
| 32.22 | 100.29 | 63.04 | 1.82 | 114.52 | 2.27 | 0.77 | 0.77 |
| 32.27 | 103.49 | 65.22 | 1.76 | 114.53 | 2.25 | 0.77 | 0.77 |
| 32.34 | 106.02 | 66.91 | 1.71 | 114.38 | 2.24 | 0.77 | 0.77 |
| 32.42 | 108.89 | 68.85 | 1.66 | 114.11 | 2.22 | 0.77 | 0.77 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 32.46 | 113.04 | 71.82 | 1.58 | 113.62 | 2.19 | 0.77 | 0.77 |
| 32.54 | 117.73 | 75.15 | 1.51 | 113.25 | 2.15 | 0.77 | 0.77 |
| 32.60 | 121.74 | 78.23 | 1.43 | 112.00 | 2.11 | 0.77 | 0.77 |
| 32.67 | 124.81 | 80.60 | 1.38 | 111.53 | 2.07 | 0.77 | 0.77 |
| 32.75 | 127.51 | 82.59 | 1.35 | 111.85 | 2.05 | 0.77 | 0.77 |
| 32.81 | 130.38 | 84.43 | 1.35 | 113.95 | 2.05 | 0.77 | 0.77 |
| 32.89 | 133.38 | 86.29 | 1.35 | 116.21 | 2.04 | 0.78 | 0.78 |
| 32.94 | 129.47 | 83.21 | 1.38 | 114.84 | 2.07 | 0.77 | 0.77 |
| 32.95 | 131.02 | 84.23 | 1.38 | 116.07 | 2.07 | 0.78 | 0.78 |
| 33.00 | 132.88 | 85.36 | 1.38 | 117.56 | 2.07 | 0.78 | 0.78 |
| 33.06 | 141.08 | 91.06 | 1.34 | 122.40 | 2.04 | 0.79 | 0.79 |
| 33.11 | 142.26 | 91.66 | 1.35 | 123.66 | 2.04 | 0.79 | 0.79 |
| 33.20 | 141.21 | 90.60 | 1.36 | 123.53 | 2.06 | 0.79 | 0.79 |
| 33.25 | 139.02 | 88.78 | 1.39 | 123.06 | 2.08 | 0.79 | 0.79 |
| 33.34 | 137.03 | 87.07 | 1.41 | 122.48 | 2.09 | 0.79 | 0.79 |
| 33.38 | 136.69 | 86.68 | 1.42 | 122.68 | 2.10 | 0.79 | 0.79 |
| 33.48 | 138.41 | 87.63 | 1.41 | 123.78 | 2.10 | 0.79 | 0.79 |
| 33.58 | 141.92 | 89.83 | 1.40 | 125.79 | 2.09 | 0.79 | 0.79 |
| 33.63 | 146.74 | 93.05 | 1.38 | 128.81 | 2.07 | 0.80 | 0.80 |
| 33.73 | 152.41 | 96.75 | 1.37 | 132.15 | 2.06 | 0.80 | 0.80 |
| 33.82 | 158.96 | 101.09 | 1.35 | 136.16 | 2.04 | 0.81 | 0.81 |
| 33.87 | 165.74 | 105.66 | 1.33 | 140.58 | 2.03 | 0.81 | 0.81 |
| 33.96 | 172.72 | 110.29 | 1.32 | 145.13 | 2.01 | 0.82 | 0.82 |
| 34.02 | 180.58 | 115.54 | 1.30 | 150.66 | 2.00 | 0.83 | 0.83 |
| 34.11 | 190.03 | 121.77 | 1.29 | 157.32 | 1.98 | 0.84 | 0.84 |
| 34.18 | 200.49 | 128.68 | 1.28 | 164.99 | 1.97 | 0.85 | 0.85 |
| 34.26 | 210.44 | 135.11 | 1.28 | 172.52 | 1.96 | 0.86 | 0.86 |
| 34.35 | 219.45 | 140.77 | 1.28 | 179.50 | 1.96 | 0.86 | 0.86 |
| 34.44 | 227.51 | 145.83 | 1.27 | 185.53 | 1.95 | 0.87 | 0.87 |
| 34.49 | 233.96 | 150.02 | 1.27 | 190.23 | 1.95 | 0.88 | 0.88 |
| 34.59 | 237.94 | 152.42 | 1.27 | 192.83 | 1.94 | 0.88 | 0.88 |
| 34.69 | 240.00 | 153.47 | 1.26 | 194.12 | 1.94 | 0.88 | 0.88 |
| 34.76 | 240.94 | 153.92 | 1.26 | 194.53 | 1.94 | 0.88 | 0.88 |
| 34.83 | 240.60 | 153.43 | 1.26 | 194.02 | 1.94 | 0.88 | 0.88 |
| 34.93 | 237.97 | 151.43 | 1.26 | 191.54 | 1.94 | 0.88 | 0.88 |
| 35.02 | 233.82 | 148.39 | 1.27 | 188.08 | 1.95 | 0.87 | 0.87 |
| 35.12 | 229.78 | 145.60 | 1.27 | 184.23 | 1.94 | 0.87 | 0.87 |
| 35.22 | 226.47 | 143.26 | 1.26 | 181.13 | 1.94 | 0.87 | 0.87 |
| 35.30 | 222.22 | 140.29 | 1.26 | 177.46 | 1.94 | 0.86 | 0.86 |
| 35.38 | 208.55 | 130.48 | 1.29 | 168.21 | 1.98 | 0.85 | 0.85 |
| 35.43 | 198.10 | 123.09 | 1.31 | 161.35 | 2.00 | 0.84 | 0.84 |
| 35.46 | 189.40 | 116.99 | 1.33 | 155.80 | 2.03 | 0.83 | 0.83 |
| 35.51 | 187.20 | 115.53 | 1.33 | 153.78 | 2.03 | 0.83 | 0.83 |
| 35.56 | 176.78 | 108.45 | 1.35 | 146.76 | 2.05 | 0.82 | 0.82 |
| 35.66 | 163.52 | 99.31 | 1.39 | 138.53 | 2.08 | 0.81 | 0.81 |
| 35.70 | 148.20 | 89.01 | 1.46 | 130.03 | 2.13 | 0.80 | 0.80 |
| 35.80 | 131.87 | 77.90 | 1.59 | 123.66 | 2.19 | 0.79 | 0.79 |
| 35.89 | 111.32 | 64.17 | 1.87 | 119.95 | 2.28 | 0.78 | 0.78 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 35.96 | 89.09 | 49.72 | 2.43 | 120.81 | 2.41 | 0.78 | 0.78 |
| 36.04 | 68.24 | 36.73 | 3.28 | 120.37 | 2.54 | 0.78 | 0.78 |
| 36.14 | 52.15 | 27.04 | 4.33 | 117.01 | 2.66 | 0.78 | 0.78 |
| 36.19 | 43.48 | 22.01 | 5.03 | 110.69 | 2.73 | 0.77 | 0.77 |
| 36.28 | 40.51 | 20.23 | 5.44 | 110.05 | 2.77 | 0.77 | 0.77 |
| 36.33 | 40.51 | 20.24 | 5.35 | 108.32 | 2.76 | 0.76 | 0.76 |
| 36.42 | 42.30 | 21.24 | 5.09 | 108.08 | 2.74 | 0.76 | 0.76 |
| 36.48 | 45.97 | 23.38 | 4.59 | 107.27 | 2.69 | 0.76 | 0.76 |
| 36.52 | 51.03 | 26.20 | 4.31 | 112.95 | 2.66 | 0.77 | 0.77 |
| 36.62 | 54.10 | 27.78 | 4.31 | 119.67 | 2.66 | 0.78 | 0.78 |
| 36.68 | 54.07 | 27.55 | 4.59 | 126.59 | 2.69 | 0.79 | 0.79 |
| 36.77 | 52.82 | 26.73 | 4.79 | 128.11 | 2.71 | 0.80 | 0.80 |
| 36.86 | 54.64 | 27.76 | 4.56 | 126.60 | 2.69 | 0.79 | 0.79 |
| 36.90 | 67.67 | 35.75 | 3.22 | 115.19 | 2.53 | 0.77 | 0.77 |
| 37.00 | 98.14 | 55.13 | 1.87 | 103.13 | 2.29 | 0.75 | 0.75 |
| 37.10 | 140.34 | 83.45 | 1.35 | 112.56 | 2.04 | 0.77 | 0.77 |
| 37.20 | 182.54 | 113.15 | 1.21 | 136.84 | 1.86 | 0.81 | 0.81 |
| 37.29 | 213.04 | 135.23 | 1.09 | 147.30 | 1.75 | 0.82 | 0.82 |
| 37.39 | 232.34 | 149.01 | 1.00 | 149.01 | 1.70 | 0.83 | 0.83 |
| 37.49 | 241.91 | 155.00 | 1.00 | 155.00 | 1.70 | 0.83 | 0.83 |
| 37.53 | 245.57 | 156.74 | 1.02 | 160.20 | 1.72 | 0.84 | 0.84 |
| 37.58 | 246.07 | 156.33 | 1.06 | 165.44 | 1.73 | 0.85 | 0.85 |
| 37.62 | 247.84 | 156.88 | 1.08 | 169.66 | 1.75 | 0.85 | 0.85 |
| 37.69 | 250.56 | 157.82 | 1.11 | 175.10 | 1.77 | 0.86 | 0.86 |
| 37.77 | 253.53 | 158.95 | 1.13 | 179.78 | 1.78 | 0.86 | 0.86 |
| 37.82 | 254.98 | 159.10 | 1.15 | 183.39 | 1.80 | 0.87 | 0.87 |
| 37.87 | 254.84 | 158.42 | 1.17 | 184.85 | 1.81 | 0.87 | 0.87 |
| 37.91 | 252.72 | 156.44 | 1.18 | 184.82 | 1.83 | 0.87 | 0.87 |
| 37.97 | 248.23 | 152.87 | 1.20 | 183.06 | 1.85 | 0.87 | 0.87 |
| 38.06 | 241.92 | 148.07 | 1.21 | 179.59 | 1.87 | 0.86 | 0.86 |
| 38.10 | 235.58 | 143.53 | 1.22 | 175.74 | 1.88 | 0.86 | 0.86 |
| 38.17 | 230.89 | 140.30 | 1.23 | 172.34 | 1.89 | 0.86 | 0.86 |
| 38.25 | 228.09 | 138.57 | 1.22 | 169.66 | 1.88 | 0.85 | 0.85 |
| 38.35 | 225.79 | 137.24 | 1.22 | 167.11 | 1.87 | 0.85 | 0.85 |
| 38.40 | 223.43 | 135.86 | 1.21 | 164.83 | 1.87 | 0.85 | 0.85 |
| 38.46 | 221.65 | 134.68 | 1.21 | 163.21 | 1.86 | 0.84 | 0.84 |
| 38.54 | 220.87 | 134.09 | 1.21 | 162.26 | 1.86 | 0.84 | 0.84 |
| 38.60 | 220.87 | 134.14 | 1.21 | 161.69 | 1.86 | 0.84 | 0.84 |
| 38.69 | 222.22 | 135.09 | 1.20 | 161.77 | 1.85 | 0.84 | 0.84 |
| 38.74 | 224.92 | 137.05 | 1.19 | 162.53 | 1.83 | 0.84 | 0.84 |
| 38.83 | 227.85 | 138.91 | 1.18 | 163.73 | 1.82 | 0.84 | 0.84 |
| 38.88 | 229.20 | 139.97 | 1.17 | 163.54 | 1.81 | 0.84 | 0.84 |
| 38.97 | 228.76 | 139.65 | 1.16 | 162.47 | 1.81 | 0.84 | 0.84 |
| 39.02 | 227.25 | 138.83 | 1.16 | 160.45 | 1.80 | 0.84 | 0.84 |
| 39.11 | 224.44 | 136.82 | 1.16 | 158.54 | 1.81 | 0.84 | 0.84 |
| 39.16 | 218.51 | 132.80 | 1.17 | 154.99 | 1.81 | 0.83 | 0.83 |
| 39.23 | 205.48 | 123.73 | 1.20 | 148.10 | 1.85 | 0.82 | 0.82 |
| 39.24 | 200.81 | 120.69 | 1.20 | 145.08 | 1.85 | 0.82 | 0.82 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 39.28 | 198.62 | 119.29 | 1.20 | 143.39 | 1.85 | 0.82 | 0.82 |
| 39.32 | 201.93 | 121.86 | 1.18 | 144.08 | 1.83 | 0.82 | 0.82 |
| 39.39 | 194.55 | 116.84 | 1.20 | 139.67 | 1.84 | 0.81 | 0.81 |
| 39.47 | 183.96 | 109.44 | 1.22 | 133.48 | 1.88 | 0.80 | 0.80 |
| 39.54 | 171.48 | 100.68 | 1.25 | 125.99 | 1.92 | 0.79 | 0.79 |
| 39.62 | 158.42 | 91.63 | 1.29 | 117.99 | 1.98 | 0.78 | 0.78 |
| 39.71 | 145.73 | 82.95 | 1.33 | 110.70 | 2.03 | 0.77 | 0.77 |
| 39.76 | 134.50 | 75.46 | 1.39 | 105.08 | 2.08 | 0.76 | 0.76 |
| 39.85 | 125.32 | 69.36 | 1.46 | 101.34 | 2.13 | 0.75 | 0.75 |
| 39.90 | 117.87 | 64.48 | 1.53 | 98.95 | 2.17 | 0.75 | 0.75 |
| 40.00 | 111.05 | 60.00 | 1.63 | 97.53 | 2.20 | 0.74 | 0.74 |
| 40.06 | 104.71 | 55.91 | 1.73 | 96.96 | 2.24 | 0.74 | 0.74 |
| 40.15 | 98.67 | 52.00 | 1.87 | 97.18 | 2.28 | 0.74 | 0.74 |
| 40.21 | 92.83 | 48.24 | 2.05 | 98.86 | 2.33 | 0.75 | 0.75 |
| 40.29 | 86.59 | 44.24 | 2.31 | 102.19 | 2.39 | 0.75 | 0.75 |
| 40.35 | 79.68 | 39.85 | 2.72 | 108.27 | 2.46 | 0.76 | 0.76 |
| 40.43 | 72.22 | 35.37 | 3.16 | 111.81 | 2.53 | 0.77 | 0.77 |
| 40.52 | 63.85 | 30.51 | 3.76 | 114.58 | 2.60 | 0.77 | 0.77 |
| 40.58 | 55.21 | 25.70 | 4.47 | 115.00 | 2.68 | 0.77 | 0.77 |
| 40.67 | 46.88 | 21.09 | 5.54 | 116.83 | 2.77 | 0.78 | 0.78 |
| 40.77 | 41.63 | 18.24 | 6.45 | 117.65 | 2.85 | 0.78 | 0.78 |
| 40.84 | 39.14 | 16.87 | 6.99 | 117.99 | 2.89 | 0.78 | 0.78 |
| 40.89 | 42.28 | 18.55 | 6.27 | 116.25 | 2.83 | 0.78 | 0.78 |
| 40.94 | 49.75 | 22.62 | 4.92 | 111.31 | 2.72 | 0.77 | 0.77 |
| 41.03 | 61.46 | 29.20 | 3.53 | 103.18 | 2.57 | 0.75 | 0.75 |
| 41.08 | 73.03 | 35.94 | 2.68 | 96.47 | 2.45 | 0.74 | 0.74 |
| 41.14 | 82.03 | 41.30 | 2.24 | 92.51 | 2.37 | 0.73 | 0.73 |
| 41.22 | 87.70 | 44.68 | 2.04 | 90.97 | 2.33 | 0.73 | 0.73 |
| 41.28 | 90.43 | 46.24 | 1.97 | 91.29 | 2.31 | 0.73 | 0.73 |
| 41.33 | 91.99 | 46.96 | 1.99 | 93.52 | 2.32 | 0.74 | 0.74 |
| 41.42 | 93.64 | 47.61 | 2.04 | 97.02 | 2.33 | 0.74 | 0.74 |
| 41.47 | 97.01 | 49.31 | 2.04 | 100.81 | 2.33 | 0.75 | 0.75 |
| 41.52 | 104.03 | 53.17 | 1.96 | 104.48 | 2.31 | 0.76 | 0.76 |
| 41.62 | 115.47 | 59.72 | 1.81 | 107.92 | 2.27 | 0.76 | 0.76 |
| 41.67 | 130.01 | 68.21 | 1.66 | 112.91 | 2.22 | 0.77 | 0.77 |
| 41.76 | 144.45 | 76.74 | 1.54 | 118.23 | 2.17 | 0.78 | 0.78 |
| 41.82 | 156.39 | 83.80 | 1.48 | 123.75 | 2.14 | 0.79 | 0.79 |
| 41.90 | 165.43 | 89.14 | 1.44 | 128.02 | 2.11 | 0.80 | 0.80 |
| 41.99 | 171.57 | 92.73 | 1.41 | 131.05 | 2.10 | 0.80 | 0.80 |
| 42.05 | 174.81 | 94.61 | 1.40 | 132.58 | 2.09 | 0.80 | 0.80 |
| 42.15 | 175.22 | 94.64 | 1.40 | 132.77 | 2.09 | 0.80 | 0.80 |
| 42.23 | 173.33 | 93.24 | 1.42 | 132.06 | 2.10 | 0.80 | 0.80 |
| 42.30 | 169.55 | 90.73 | 1.44 | 130.51 | 2.11 | 0.80 | 0.80 |
| 42.38 | 163.64 | 86.97 | 1.47 | 127.88 | 2.13 | 0.80 | 0.80 |
| 42.48 | 153.79 | 80.87 | 1.53 | 123.60 | 2.16 | 0.79 | 0.79 |
| 42.57 | 141.98 | 73.69 | 1.62 | 119.15 | 2.20 | 0.78 | 0.78 |
| 42.64 | 129.97 | 66.53 | 1.73 | 115.28 | 2.24 | 0.78 | 0.78 |
| 42.72 | 121.20 | 61.42 | 1.82 | 111.72 | 2.27 | 0.77 | 0.77 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 42.82 | 114.72 | 57.72 | 1.88 | 108.24 | 2.29 | 0.76 | 0.76 |
| 42.90 | 110.03 | 55.08 | 1.91 | 105.42 | 2.30 | 0.76 | 0.76 |
| 42.97 | 106.05 | 52.74 | 1.98 | 104.32 | 2.31 | 0.76 | 0.76 |
| 43.06 | 102.31 | 50.43 | 2.08 | 104.69 | 2.34 | 0.76 | 0.76 |
| 43.15 | 98.76 | 48.44 | 2.11 | 102.43 | 2.35 | 0.75 | 0.75 |
| 43.20 | 97.75 | 48.00 | 2.07 | 99.54 | 2.34 | 0.75 | 0.75 |
| 43.30 | 104.19 | 51.99 | 1.84 | 95.67 | 2.28 | 0.74 | 0.74 |
| 43.40 | 119.88 | 61.38 | 1.58 | 97.12 | 2.19 | 0.74 | 0.74 |
| 43.48 | 132.43 | 68.91 | 1.47 | 100.97 | 2.13 | 0.75 | 0.75 |
| 43.51 | 139.11 | 72.90 | 1.43 | 103.89 | 2.10 | 0.76 | 0.76 |
| 43.52 | 146.23 | 77.22 | 1.39 | 107.23 | 2.08 | 0.76 | 0.76 |
| 43.56 | 160.13 | 85.83 | 1.33 | 114.20 | 2.03 | 0.77 | 0.77 |
| 43.61 | 178.86 | 97.60 | 1.28 | 124.81 | 1.96 | 0.79 | 0.79 |
| 43.67 | 193.23 | 106.74 | 1.25 | 133.29 | 1.92 | 0.80 | 0.80 |
| 43.72 | 206.01 | 115.04 | 1.22 | 140.56 | 1.88 | 0.81 | 0.81 |
| 43.80 | 216.51 | 121.88 | 1.20 | 145.95 | 1.85 | 0.82 | 0.82 |
| 43.85 | 224.74 | 127.26 | 1.18 | 149.84 | 1.82 | 0.83 | 0.83 |
| 43.90 | 231.25 | 131.51 | 1.16 | 152.56 | 1.81 | 0.83 | 0.83 |
| 43.94 | 236.38 | 134.87 | 1.14 | 154.37 | 1.79 | 0.83 | 0.83 |
| 43.99 | 239.82 | 137.13 | 1.13 | 155.28 | 1.78 | 0.83 | 0.83 |
| 44.08 | 241.54 | 138.11 | 1.13 | 155.65 | 1.78 | 0.83 | 0.83 |
| 44.14 | 241.51 | 137.71 | 1.14 | 156.49 | 1.79 | 0.84 | 0.84 |
| 44.22 | 240.40 | 136.41 | 1.15 | 157.19 | 1.80 | 0.84 | 0.84 |
| 44.28 | 238.31 | 134.50 | 1.17 | 157.37 | 1.82 | 0.84 | 0.84 |
| 44.33 | 235.67 | 132.35 | 1.18 | 156.78 | 1.83 | 0.84 | 0.84 |
| 44.40 | 232.27 | 129.52 | 1.20 | 155.80 | 1.85 | 0.83 | 0.83 |
| 44.48 | 231.30 | 128.25 | 1.22 | 155.90 | 1.87 | 0.83 | 0.83 |
| 44.52 | 228.57 | 125.64 | 1.24 | 155.24 | 1.90 | 0.83 | 0.83 |
| 44.61 | 230.02 | 126.41 | 1.23 | 155.88 | 1.89 | 0.83 | 0.83 |
| 44.72 | 231.52 | 127.03 | 1.23 | 156.70 | 1.90 | 0.84 | 0.84 |
| 44.77 | 236.14 | 130.05 | 1.22 | 159.04 | 1.88 | 0.84 | 0.84 |
| 44.91 | 237.86 | 130.46 | 1.23 | 160.27 | 1.89 | 0.84 | 0.84 |
| 44.95 | 231.69 | 126.16 | 1.24 | 156.88 | 1.91 | 0.84 | 0.84 |
| 45.02 | 227.41 | 123.19 | 1.25 | 154.33 | 1.92 | 0.83 | 0.83 |
| 45.04 | 198.97 | 104.88 | 1.32 | 138.44 | 2.01 | 0.81 | 0.81 |
| 45.06 | 203.49 | 107.81 | 1.30 | 140.63 | 2.00 | 0.81 | 0.81 |
| 45.11 | 208.45 | 111.04 | 1.29 | 143.03 | 1.98 | 0.82 | 0.82 |
| 45.15 | 239.96 | 131.64 | 1.22 | 160.49 | 1.87 | 0.84 | 0.84 |
| 45.21 | 246.91 | 136.23 | 1.20 | 163.81 | 1.85 | 0.84 | 0.84 |
| 45.25 | 252.44 | 139.80 | 1.19 | 166.43 | 1.84 | 0.85 | 0.85 |
| 45.30 | 256.29 | 142.11 | 1.18 | 168.34 | 1.83 | 0.85 | 0.85 |
| 45.35 | 258.04 | 143.02 | 1.18 | 169.35 | 1.83 | 0.85 | 0.85 |
| 45.41 | 258.42 | 143.02 | 1.19 | 169.64 | 1.83 | 0.85 | 0.85 |
| 45.49 | 257.00 | 141.89 | 1.19 | 168.87 | 1.84 | 0.85 | 0.85 |
| 45.55 | 254.13 | 139.97 | 1.19 | 167.24 | 1.84 | 0.85 | 0.85 |
| 45.63 | 249.51 | 136.90 | 1.20 | 164.52 | 1.85 | 0.85 | 0.85 |
| 45.69 | 243.67 | 133.19 | 1.21 | 161.09 | 1.86 | 0.84 | 0.84 |
| 45.78 | 236.62 | 128.61 | 1.22 | 156.88 | 1.88 | 0.84 | 0.84 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 45.84 | 228.05 | 123.25 | 1.23 | 151.68 | 1.89 | 0.83 | 0.83 |
| 45.93 | 217.69 | 116.85 | 1.24 | 145.18 | 1.91 | 0.82 | 0.82 |
| 46.02 | 205.11 | 109.16 | 1.26 | 137.24 | 1.93 | 0.81 | 0.81 |
| 46.08 | 190.40 | 100.37 | 1.28 | 128.00 | 1.96 | 0.80 | 0.80 |
| 46.16 | 174.41 | 90.73 | 1.30 | 118.20 | 1.99 | 0.78 | 0.78 |
| 46.24 | 157.13 | 80.39 | 1.35 | 108.31 | 2.04 | 0.76 | 0.76 |
| 46.31 | 138.07 | 68.91 | 1.44 | 99.54 | 2.12 | 0.75 | 0.75 |
| 46.41 | 117.36 | 56.54 | 1.67 | 94.32 | 2.22 | 0.74 | 0.74 |
| 46.48 | 95.77 | 44.06 | 2.17 | 95.41 | 2.36 | 0.74 | 0.74 |
| 46.56 | 75.72 | 32.98 | 3.08 | 101.49 | 2.51 | 0.75 | 0.75 |
| 46.65 | 58.08 | 23.81 | 4.47 | 106.39 | 2.68 | 0.76 | 0.76 |
| 46.75 | 45.43 | 17.64 | 5.95 | 104.92 | 2.81 | 0.76 | 0.76 |
| 46.84 | 36.62 | 12.08 | 8.01 | 96.75 | 2.95 | 0.74 | 0.74 |
| 46.94 | 30.75 | 9.96 | 9.25 | 92.20 | 3.03 | 0.42 | 0.71 |
| 47.02 | 25.79 | 8.18 | 10.96 | 89.65 | 3.12 | 0.36 | 0.58 |
| 47.08 | 21.37 | 6.60 | 13.29 | 87.68 | 3.22 | 0.33 | 0.47 |
| 47.12 | 18.76 | 5.66 | 15.23 | 86.24 | 3.30 | 0.32 | 0.40 |
| 47.16 | 17.85 | 5.33 | 15.88 | 84.67 | 3.33 | 0.30 | 0.38 |
| 47.21 | 17.81 | 5.32 | 15.49 | 82.35 | 3.31 | 0.28 | 0.38 |
| 47.27 | 17.46 | 5.18 | 15.33 | 79.44 | 3.31 | 0.26 | 0.37 |
| 47.35 | 16.42 | 4.80 | 15.97 | 76.72 | 3.33 | 0.23 | 0.34 |
| 47.40 | 15.74 | 4.56 | 15.95 | 72.71 | 3.33 | 0.22 | 0.33 |
| 47.50 | 15.37 | 4.42 | 15.62 | 68.97 | 3.32 | 0.17 | 0.32 |
| 47.55 | 15.16 | 4.34 | 15.04 | 65.28 | 3.29 | 0.16 | 0.31 |
| 47.61 | 15.00 | 4.27 | 14.89 | 63.67 | 3.29 | 0.14 | 0.31 |
| 47.69 | 14.73 | 4.17 | 15.00 | 62.57 | 3.29 | 0.14 | 0.30 |
| 47.76 | 14.39 | 4.05 | 15.25 | 61.71 | 3.30 | 0.13 | 0.29 |
| 47.83 | 14.02 | 3.91 | 15.40 | 60.22 | 3.31 | 0.13 | 0.28 |
| 47.93 | 13.85 | 3.84 | 15.20 | 58.40 | 3.30 | 0.11 | 0.27 |
| 48.02 | 13.82 | 3.82 | 15.00 | 57.34 | 3.29 | 0.10 | 0.27 |
| 48.09 | 13.88 | 3.84 | 14.67 | 56.35 | 3.28 | 0.11 | 0.27 |
| 48.18 | 13.85 | 3.82 | 14.94 | 57.05 | 3.29 | 0.10 | 0.27 |
| 48.27 | 13.88 | 3.82 | 15.29 | 58.44 | 3.30 | 0.12 | 0.27 |
| 48.37 | 13.98 | 3.85 | 15.87 | 61.09 | 3.33 | 0.13 | 0.27 |
| 48.46 | 14.12 | 3.89 | 16.20 | 62.98 | 3.34 | 0.14 | 0.28 |
| 48.52 | 14.18 | 3.90 | 16.46 | 64.25 | 3.35 | 0.15 | 0.28 |
| 48.60 | 14.25 | 3.92 | 16.64 | 65.23 | 3.35 | 0.16 | 0.28 |
| 48.70 | 14.38 | 3.96 | 16.68 | 65.99 | 3.35 | 0.16 | 0.28 |
| 48.79 | 14.65 | 4.04 | 16.50 | 66.70 | 3.35 | 0.16 | 0.29 |
| 48.85 | 15.06 | 4.18 | 16.39 | 68.42 | 3.34 | 0.17 | 0.30 |
| 48.94 | 15.74 | 4.40 | 16.24 | 71.44 | 3.34 | 0.20 | 0.31 |
| 49.04 | 16.68 | 4.71 | 15.57 | 73.34 | 3.31 | 0.23 | 0.34 |
| 49.13 | 18.30 | 5.25 | 15.62 | 82.09 | 3.32 | 0.22 | 0.38 |
| 49.23 | 21.13 | 6.21 | 14.82 | 92.00 | 3.29 | 0.41 | 0.44 |
| 49.33 | 24.04 | 7.18 | 14.31 | 102.80 | 3.27 | 0.51 | 0.51 |
| 49.38 | 24.88 | 7.46 | 14.69 | 109.60 | 3.28 | 0.57 | 0.53 |
| 49.42 | 25.93 | 7.81 | 14.70 | 114.80 | 3.28 | 0.64 | 0.56 |
| 49.48 | 26.70 | 8.06 | 14.75 | 118.93 | 3.28 | 0.70 | 0.58 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 49.53 | 28.79 | 8.76 | 13.86 | 121.43 | 3.25 | 0.73 | 0.63 |
| 49.58 | 29.43 | 8.97 | 13.78 | 123.62 | 3.24 | 0.76 | 0.64 |
| 49.63 | 30.10 | 9.19 | 13.66 | 125.52 | 3.24 | 0.79 | 0.66 |
| 49.72 | 30.91 | 9.44 | 13.37 | 126.23 | 3.23 | 0.81 | 0.67 |
| 49.77 | 31.42 | 9.60 | 13.13 | 125.98 | 3.22 | 0.80 | 0.69 |
| 49.83 | 31.42 | 9.59 | 13.08 | 125.40 | 3.22 | 0.79 | 0.68 |
| 49.92 | 30.71 | 9.33 | 13.37 | 124.67 | 3.23 | 0.79 | 0.67 |
| 49.97 | 30.39 | 9.21 | 13.41 | 123.55 | 3.23 | 0.76 | 0.66 |
| 50.04 | 29.48 | 8.89 | 13.80 | 122.65 | 3.25 | 0.74 | 0.64 |
| 50.11 | 29.82 | 8.99 | 13.61 | 122.33 | 3.24 | 0.74 | 0.64 |
| 50.20 | 30.21 | 9.10 | 13.25 | 120.55 | 3.22 | 0.76 | 0.65 |
| 50.27 | 30.78 | 9.28 | 12.51 | 116.01 | 3.19 | 0.68 | 0.66 |
| 50.34 | 29.50 | 8.83 | 12.20 | 107.79 | 3.18 | 0.58 | 0.63 |
| 50.45 | 26.76 | 7.90 | 12.55 | 99.22 | 3.19 | 0.45 | 0.56 |
| 50.54 | 23.73 | 6.88 | 13.43 | 92.39 | 3.23 | 0.38 | 0.49 |
| 50.59 | 21.13 | 6.01 | 14.59 | 87.71 | 3.28 | 0.35 | 0.43 |
| 50.68 | 19.24 | 5.37 | 15.59 | 83.78 | 3.32 | 0.30 | 0.38 |
| 50.79 | 18.13 | 4.99 | 16.06 | 80.17 | 3.33 | 0.26 | 0.36 |
| 50.88 | 17.81 | 4.88 | 16.03 | 78.18 | 3.33 | 0.25 | 0.35 |
| 50.98 | 17.64 | 4.81 | 16.19 | 77.89 | 3.34 | 0.25 | 0.34 |
| 51.07 | 17.81 | 4.86 | 15.67 | 76.09 | 3.32 | 0.25 | 0.35 |
| 51.17 | 18.43 | 5.05 | 14.19 | 71.67 | 3.26 | 0.21 | 0.36 |
| 51.24 | 19.51 | 5.40 | 12.74 | 68.77 | 3.20 | 0.16 | 0.39 |
| 51.33 | 20.19 | 5.61 | 12.56 | 70.43 | 3.19 | 0.20 | 0.40 |
| 51.46 | 20.09 | 5.56 | 13.45 | 74.75 | 3.23 | 0.25 | 0.40 |
| 51.46 | 19.80 | 5.46 | 14.31 | 78.20 | 3.27 | 0.25 | 0.39 |
| 51.51 | 19.77 | 5.45 | 14.62 | 79.60 | 3.28 | 0.28 | 0.39 |
| 51.56 | 19.87 | 5.47 | 14.98 | 82.02 | 3.29 | 0.28 | 0.39 |
| 51.65 | 19.95 | 5.49 | 15.35 | 84.26 | 3.31 | 0.31 | 0.39 |
| 51.71 | 20.09 | 5.53 | 15.72 | 86.89 | 3.32 | 0.33 | 0.39 |
| 51.79 | 20.49 | 5.65 | 15.73 | 88.80 | 3.32 | 0.35 | 0.40 |
| 51.85 | 21.23 | 5.88 | 15.68 | 92.19 | 3.32 | 0.37 | 0.42 |
| 51.94 | 22.11 | 6.15 | 15.66 | 96.33 | 3.32 | 0.43 | 0.44 |
| 51.99 | 23.22 | 6.51 | 15.77 | 102.62 | 3.32 | 0.48 | 0.46 |
| 52.09 | 24.17 | 6.80 | 16.12 | 109.52 | 3.33 | 0.57 | 0.49 |
| 52.19 | 27.74 | 7.93 | 14.73 | 116.81 | 3.28 | 0.67 | 0.57 |
| 52.28 | 33.34 | 9.72 | 12.62 | 122.63 | 3.20 | 0.78 | 0.69 |
| 52.35 | 36.42 | 10.69 | 12.02 | 128.41 | 3.17 | 0.87 | 0.76 |
| 52.43 | 37.06 | 10.87 | 12.22 | 132.82 | 3.18 | 0.95 | 0.78 |
| 52.52 | 35.17 | 10.25 | 13.30 | 136.28 | 3.22 | 0.97 | 0.73 |
| 52.62 | 35.61 | 10.37 | 13.11 | 135.93 | 3.22 | 0.98 | 0.74 |
| 52.72 | 35.98 | 10.46 | 12.80 | 133.92 | 3.20 | 0.94 | 0.75 |
| 52.81 | 34.26 | 9.89 | 13.70 | 135.53 | 3.24 | 0.89 | 0.71 |
| 52.91 | 31.32 | 8.94 | 16.37 | 146.31 | 3.34 | 1.03 | 0.64 |
| 53.00 | 37.23 | 10.79 | 14.34 | 154.70 | 3.27 | 1.38 | 0.77 |
| 53.10 | 62.36 | 18.71 | 7.92 | 148.13 | 2.95 | 0.82 | 0.82 |
| 53.20 | 108.21 | 33.14 | 3.92 | 129.79 | 2.62 | 0.80 | 0.80 |
| 53.29 | 163.78 | 50.57 | 2.27 | 114.61 | 2.38 | 0.77 | 0.77 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 53.38 | 213.88 | 66.21 | 1.72 | 114.09 | 2.24 | 0.77 | 0.77 |
| 53.46 | 260.07 | 80.59 | 1.49 | 119.81 | 2.14 | 0.78 | 0.78 |
| 53.53 | 292.05 | 90.48 | 1.45 | 130.93 | 2.12 | 0.80 | 0.80 |
| 53.63 | 323.19 | 100.02 | 1.40 | 139.93 | 2.09 | 0.81 | 0.81 |
| 53.73 | 361.79 | 111.85 | 1.31 | 146.92 | 2.01 | 0.82 | 0.82 |
| 53.82 | 388.35 | 119.89 | 1.25 | 150.03 | 1.92 | 0.83 | 0.83 |
| 53.92 | 387.71 | 119.45 | 1.23 | 146.54 | 1.89 | 0.82 | 0.82 |
| 53.94 | 360.18 | 110.85 | 1.25 | 138.23 | 1.92 | 0.81 | 0.81 |
| 53.96 | 336.26 | 103.38 | 1.27 | 131.20 | 1.95 | 0.80 | 0.80 |
| 53.97 | 349.08 | 107.34 | 1.25 | 134.16 | 1.92 | 0.80 | 0.80 |
| 54.05 | 377.59 | 116.04 | 1.22 | 141.00 | 1.87 | 0.81 | 0.81 |
| 54.08 | 426.28 | 131.09 | 1.15 | 150.15 | 1.79 | 0.83 | 0.83 |
| 54.13 | 473.21 | 145.55 | 1.06 | 154.41 | 1.74 | 0.83 | 0.83 |
| 54.19 | 518.79 | 159.56 | 1.00 | 159.56 | 1.70 | 0.84 | 0.84 |
| 54.25 | 524.22 | 161.12 | 1.01 | 162.94 | 1.71 | 0.84 | 0.84 |
| 54.28 | 510.87 | 156.95 | 1.06 | 166.66 | 1.74 | 0.85 | 0.85 |
| 54.29 | 486.82 | 149.48 | 1.10 | 164.40 | 1.76 | 0.85 | 0.85 |
| 54.34 | 486.89 | 149.42 | 1.10 | 164.35 | 1.76 | 0.85 | 0.85 |
| 54.35 | 492.20 | 151.05 | 1.09 | 164.72 | 1.75 | 0.85 | 0.85 |
| 54.40 | 504.89 | 154.89 | 1.07 | 165.62 | 1.74 | 0.85 | 0.85 |
| 54.44 | 522.30 | 160.18 | 1.04 | 166.45 | 1.72 | 0.85 | 0.85 |
| 54.49 | 535.62 | 164.19 | 1.01 | 165.88 | 1.71 | 0.85 | 0.85 |
| 54.53 | 546.25 | 167.39 | 1.00 | 167.39 | 1.70 | 0.85 | 0.85 |
| 54.57 | 558.27 | 171.02 | 1.00 | 171.02 | 1.69 | 0.85 | 0.85 |
| 54.58 | 567.78 | 173.92 | 1.00 | 173.92 | 1.70 | 0.86 | 0.86 |
| 54.63 | 560.90 | 171.71 | 1.01 | 173.90 | 1.71 | 0.86 | 0.86 |
| 54.68 | 536.31 | 164.04 | 1.08 | 176.93 | 1.75 | 0.86 | 0.86 |
| 54.73 | 510.50 | 156.00 | 1.12 | 175.12 | 1.78 | 0.86 | 0.86 |
| 54.78 | 499.67 | 152.59 | 1.14 | 173.29 | 1.79 | 0.86 | 0.86 |
| 54.83 | 493.63 | 150.64 | 1.15 | 172.82 | 1.80 | 0.86 | 0.86 |
| 54.88 | 497.14 | 151.64 | 1.15 | 175.08 | 1.80 | 0.86 | 0.86 |
| 54.92 | 500.68 | 152.65 | 1.17 | 178.37 | 1.81 | 0.86 | 0.86 |
| 54.97 | 510.81 | 155.66 | 1.16 | 180.73 | 1.81 | 0.87 | 0.87 |
| 55.02 | 513.44 | 156.38 | 1.16 | 181.62 | 1.81 | 0.87 | 0.87 |
| 55.12 | 487.90 | 148.39 | 1.20 | 178.01 | 1.85 | 0.86 | 0.86 |
| 55.17 | 449.17 | 136.44 | 1.25 | 170.63 | 1.92 | 0.85 | 0.85 |
| 55.25 | 410.54 | 124.51 | 1.29 | 160.49 | 1.98 | 0.84 | 0.84 |
| 55.31 | 394.21 | 119.43 | 1.29 | 154.46 | 1.98 | 0.83 | 0.83 |
| 55.36 | 388.18 | 117.52 | 1.27 | 148.87 | 1.95 | 0.83 | 0.83 |
| 55.45 | 381.09 | 115.23 | 1.25 | 143.68 | 1.91 | 0.82 | 0.82 |
| 55.50 | 365.91 | 110.54 | 1.25 | 137.89 | 1.92 | 0.81 | 0.81 |
| 55.60 | 351.24 | 105.95 | 1.26 | 133.93 | 1.94 | 0.80 | 0.80 |
| 55.65 | 332.24 | 100.11 | 1.28 | 128.15 | 1.96 | 0.80 | 0.80 |
| 55.71 | 324.14 | 97.58 | 1.27 | 124.39 | 1.96 | 0.79 | 0.79 |
| 55.75 | 320.40 | 96.40 | 1.26 | 121.19 | 1.93 | 0.78 | 0.78 |
| 55.79 | 325.12 | 97.79 | 1.25 | 121.90 | 1.91 | 0.79 | 0.79 |
| 55.84 | 332.47 | 99.97 | 1.24 | 123.76 | 1.90 | 0.79 | 0.79 |
| 55.89 | 338.01 | 101.60 | 1.23 | 125.39 | 1.90 | 0.79 | 0.79 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 55.90 | 341.15 | 102.54 | 1.23 | 126.17 | 1.89 | 0.79 | 0.79 |
| 55.94 | 336.26 | 101.02 | 1.24 | 124.98 | 1.90 | 0.79 | 0.79 |
| 55.99 | 327.63 | 98.34 | 1.25 | 122.89 | 1.92 | 0.79 | 0.79 |
| 56.03 | 317.88 | 95.34 | 1.26 | 120.41 | 1.94 | 0.78 | 0.78 |
| 56.08 | 311.67 | 93.40 | 1.27 | 118.54 | 1.95 | 0.78 | 0.78 |
| 56.14 | 306.37 | 91.74 | 1.27 | 116.74 | 1.95 | 0.78 | 0.78 |
| 56.22 | 299.89 | 89.70 | 1.28 | 114.65 | 1.96 | 0.77 | 0.77 |
| 56.28 | 294.29 | 87.95 | 1.28 | 112.90 | 1.97 | 0.77 | 0.77 |
| 56.33 | 292.57 | 87.39 | 1.29 | 112.38 | 1.97 | 0.77 | 0.77 |
| 56.38 | 294.06 | 87.79 | 1.28 | 112.46 | 1.97 | 0.77 | 0.77 |
| 56.45 | 301.34 | 89.92 | 1.27 | 114.23 | 1.95 | 0.77 | 0.77 |
| 56.52 | 312.58 | 93.24 | 1.25 | 117.01 | 1.93 | 0.78 | 0.78 |
| 56.62 | 325.19 | 96.94 | 1.24 | 120.21 | 1.90 | 0.78 | 0.78 |
| 56.66 | 338.42 | 100.88 | 1.22 | 123.02 | 1.87 | 0.79 | 0.79 |
| 56.73 | 350.06 | 104.30 | 1.21 | 126.65 | 1.87 | 0.79 | 0.79 |
| 56.81 | 357.11 | 106.33 | 1.22 | 129.59 | 1.87 | 0.80 | 0.80 |
| 56.95 | 363.42 | 108.06 | 1.23 | 132.64 | 1.89 | 0.80 | 0.80 |
| 57.00 | 372.46 | 110.72 | 1.23 | 135.80 | 1.88 | 0.81 | 0.81 |
| 57.09 | 373.11 | 110.80 | 1.23 | 136.52 | 1.89 | 0.81 | 0.81 |
| 57.19 | 368.58 | 109.32 | 1.24 | 135.85 | 1.91 | 0.81 | 0.81 |
| 57.27 | 354.04 | 104.88 | 1.25 | 131.44 | 1.92 | 0.80 | 0.80 |
| 57.35 | 357.65 | 105.87 | 1.23 | 130.16 | 1.89 | 0.80 | 0.80 |
| 57.44 | 356.17 | 105.33 | 1.21 | 127.36 | 1.86 | 0.79 | 0.79 |
| 57.50 | 364.37 | 107.70 | 1.18 | 127.07 | 1.83 | 0.79 | 0.79 |
| 57.52 | 378.10 | 111.77 | 1.18 | 131.85 | 1.83 | 0.80 | 0.80 |
| 57.58 | 409.37 | 121.03 | 1.17 | 141.73 | 1.82 | 0.82 | 0.82 |
| 57.63 | 432.08 | 127.73 | 1.17 | 149.17 | 1.81 | 0.83 | 0.83 |
| 57.72 | 439.00 | 129.66 | 1.17 | 151.31 | 1.81 | 0.83 | 0.83 |
| 57.77 | 433.73 | 128.03 | 1.16 | 148.26 | 1.80 | 0.82 | 0.82 |
| 57.82 | 429.55 | 126.71 | 1.13 | 143.29 | 1.78 | 0.82 | 0.82 |
| 57.91 | 436.73 | 128.72 | 1.06 | 137.09 | 1.74 | 0.81 | 0.81 |
| 57.96 | 442.84 | 130.46 | 1.00 | 130.46 | 1.69 | 0.80 | 0.80 |
| 58.02 | 458.90 | 135.16 | 1.00 | 135.16 | 1.66 | 0.81 | 0.81 |
| 58.09 | 469.26 | 138.12 | 1.00 | 138.12 | 1.65 | 0.81 | 0.81 |
| 58.16 | 484.88 | 142.65 | 1.00 | 142.65 | 1.63 | 0.82 | 0.82 |
| 58.25 | 491.12 | 144.36 | 1.00 | 144.36 | 1.64 | 0.82 | 0.82 |
| 58.30 | 487.65 | 143.26 | 1.00 | 143.26 | 1.66 | 0.82 | 0.82 |
| 58.40 | 479.62 | 140.74 | 1.00 | 140.74 | 1.69 | 0.81 | 0.81 |
| 58.50 | 468.52 | 137.31 | 1.02 | 139.77 | 1.71 | 0.81 | 0.81 |
| 58.56 | 467.50 | 136.92 | 1.01 | 138.70 | 1.71 | 0.81 | 0.81 |
| 58.64 | 464.81 | 136.01 | 1.03 | 140.28 | 1.72 | 0.81 | 0.81 |
| 58.73 | 474.79 | 138.81 | 1.05 | 145.16 | 1.73 | 0.82 | 0.82 |
| 58.78 | 488.15 | 142.67 | 1.02 | 145.87 | 1.72 | 0.82 | 0.82 |
| 58.88 | 506.71 | 147.98 | 1.00 | 147.98 | 1.69 | 0.82 | 0.82 |
| 58.97 | 511.03 | 149.10 | 1.00 | 149.10 | 1.66 | 0.83 | 0.83 |
| 59.07 | 506.24 | 147.53 | 1.00 | 147.53 | 1.66 | 0.82 | 0.82 |
| 59.13 | 493.59 | 143.73 | 1.00 | 143.73 | 1.65 | 0.82 | 0.82 |
| 59.23 | 484.71 | 140.99 | 1.00 | 140.99 | 1.65 | 0.81 | 0.81 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 59.31 | 464.47 | 134.94 | 1.00 | 134.94 | 1.65 | 0.81 | 0.81 |
| 59.38 | 450.35 | 130.71 | 1.00 | 130.71 | 1.65 | 0.80 | 0.80 |
| 59.41 | 439.19 | 127.40 | 1.00 | 127.40 | 1.66 | 0.79 | 0.79 |
| 59.46 | 443.57 | 128.62 | 1.00 | 128.62 | 1.65 | 0.80 | 0.80 |
| 59.51 | 443.56 | 128.55 | 1.00 | 128.55 | 1.65 | 0.80 | 0.80 |
| 59.57 | 451.89 | 130.91 | 1.00 | 130.91 | 1.67 | 0.80 | 0.80 |
| 59.66 | 471.05 | 136.37 | 1.00 | 136.37 | 1.67 | 0.81 | 0.81 |
| 59.75 | 492.31 | 142.44 | 1.00 | 142.44 | 1.70 | 0.82 | 0.82 |
| 59.80 | 506.48 | 146.48 | 1.01 | 147.84 | 1.71 | 0.82 | 0.82 |
| 59.85 | 508.64 | 147.04 | 1.07 | 156.99 | 1.74 | 0.84 | 0.84 |
| 59.91 | 504.22 | 145.65 | 1.08 | 158.02 | 1.75 | 0.84 | 0.84 |
| 59.99 | 498.85 | 143.96 | 1.11 | 159.53 | 1.77 | 0.84 | 0.84 |
| 60.05 | 480.97 | 138.68 | 1.17 | 161.59 | 1.81 | 0.84 | 0.84 |
| 60.09 | 464.78 | 133.92 | 1.20 | 160.52 | 1.85 | 0.84 | 0.84 |
| 60.14 | 444.43 | 127.94 | 1.22 | 156.08 | 1.88 | 0.84 | 0.84 |
| 60.19 | 437.86 | 125.96 | 1.22 | 153.23 | 1.87 | 0.83 | 0.83 |
| 60.22 | 434.25 | 124.88 | 1.21 | 151.55 | 1.87 | 0.83 | 0.83 |
| 60.28 | 412.99 | 118.63 | 1.23 | 145.94 | 1.89 | 0.82 | 0.82 |
| 60.33 | 381.24 | 109.36 | 1.26 | 137.48 | 1.93 | 0.81 | 0.81 |
| 60.38 | 338.97 | 97.07 | 1.31 | 126.83 | 2.00 | 0.79 | 0.79 |
| 60.42 | 309.75 | 88.57 | 1.35 | 119.65 | 2.05 | 0.78 | 0.78 |
| 60.48 | 282.02 | 80.50 | 1.38 | 111.02 | 2.07 | 0.77 | 0.77 |
| 60.57 | 262.48 | 74.78 | 1.36 | 101.50 | 2.05 | 0.75 | 0.75 |
| 60.66 | 243.89 | 69.35 | 1.32 | 91.67 | 2.02 | 0.73 | 0.73 |
| 60.68 | 232.16 | 65.95 | 1.30 | 85.85 | 1.99 | 0.72 | 0.72 |
| 60.69 | 225.51 | 64.02 | 1.29 | 82.84 | 1.98 | 0.71 | 0.71 |
| 60.74 | 217.75 | 61.75 | 1.30 | 80.07 | 1.99 | 0.59 | 0.71 |
| 60.79 | 206.27 | 58.41 | 1.30 | 76.18 | 2.00 | 0.42 | 0.70 |
| 60.84 | 192.16 | 54.32 | 1.32 | 71.82 | 2.02 | 0.30 | 0.69 |
| 60.89 | 182.35 | 51.47 | 1.33 | 68.64 | 2.03 | 0.23 | 0.68 |
| 60.98 | 174.35 | 49.12 | 1.36 | 66.57 | 2.05 | 0.19 | 0.67 |
| 61.03 | 168.07 | 47.30 | 1.46 | 69.19 | 2.13 | 0.24 | 0.68 |
| 61.08 | 164.86 | 46.35 | 1.72 | 79.69 | 2.24 | 0.57 | 0.71 |
| 61.18 | 164.63 | 46.24 | 1.95 | 90.12 | 2.31 | 0.73 | 0.73 |
| 61.23 | 168.20 | 47.23 | 2.12 | 100.04 | 2.35 | 0.75 | 0.75 |
| 61.31 | 194.08 | 54.62 | 1.72 | 94.03 | 2.24 | 0.74 | 0.74 |
| 61.42 | 236.42 | 66.70 | 1.41 | 94.11 | 2.09 | 0.74 | 0.74 |
| 61.47 | 287.17 | 81.21 | 1.24 | 100.64 | 1.90 | 0.75 | 0.75 |
| 61.51 | 331.30 | 93.81 | 1.14 | 107.25 | 1.79 | 0.76 | 0.76 |
| 61.54 | 366.14 | 103.76 | 1.05 | 108.54 | 1.73 | 0.76 | 0.76 |
| 61.57 | 395.83 | 112.23 | 1.00 | 112.23 | 1.70 | 0.77 | 0.77 |
| 61.58 | 418.64 | 118.74 | 1.00 | 118.74 | 1.67 | 0.78 | 0.78 |
| 61.61 | 393.43 | 111.49 | 1.00 | 111.49 | 1.70 | 0.77 | 0.77 |
| 61.63 | 367.65 | 104.10 | 1.03 | 107.07 | 1.72 | 0.76 | 0.76 |
| 61.63 | 257.89 | 72.70 | 1.26 | 91.77 | 1.94 | 0.73 | 0.73 |
| 61.66 | 191.36 | 53.66 | 1.48 | 79.27 | 2.14 | 0.55 | 0.71 |
| 61.67 | 129.55 | 35.97 | 2.37 | 85.35 | 2.40 | 0.72 | 0.72 |
| 61.70 | 152.96 | 42.66 | 1.96 | 83.80 | 2.31 | 0.72 | 0.72 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 61.71 | 180.90 | 50.64 | 1.67 | 84.55 | 2.22 | 0.72 | 0.72 |
| 61.76 | 206.41 | 57.90 | 1.51 | 87.45 | 2.15 | 0.72 | 0.72 |
| 61.80 | 228.84 | 64.28 | 1.42 | 91.10 | 2.10 | 0.73 | 0.73 |
| 61.84 | 250.40 | 70.41 | 1.34 | 94.04 | 2.03 | 0.74 | 0.74 |
| 61.86 | 279.75 | 78.77 | 1.26 | 98.87 | 1.93 | 0.75 | 0.75 |
| 61.93 | 312.34 | 88.02 | 1.18 | 103.69 | 1.82 | 0.75 | 0.75 |
| 61.98 | 357.76 | 100.92 | 1.00 | 100.92 | 1.73 | 0.75 | 0.75 |
| 62.04 | 405.56 | 114.48 | 1.00 | 114.48 | 1.68 | 0.77 | 0.77 |
| 62.09 | 451.78 | 127.59 | 1.00 | 127.59 | 1.64 | 0.79 | 0.79 |
| 62.14 | 481.91 | 136.10 | 1.00 | 136.10 | 1.62 | 0.81 | 0.81 |
| 62.19 | 499.12 | 140.93 | 1.00 | 140.93 | 1.60 | 0.81 | 0.81 |
| 62.24 | 508.93 | 143.65 | 1.00 | 143.65 | 1.59 | 0.82 | 0.82 |
| 62.26 | 519.32 | 146.58 | 1.00 | 146.58 | 1.58 | 0.82 | 0.82 |
| 62.29 | 519.05 | 146.46 | 1.00 | 146.46 | 1.58 | 0.82 | 0.82 |
| 62.38 | 515.71 | 145.37 | 1.00 | 145.37 | 1.60 | 0.82 | 0.82 |
| 62.44 | 490.28 | 138.07 | 1.00 | 138.07 | 1.65 | 0.81 | 0.81 |
| 62.46 | 469.07 | 132.02 | 1.00 | 132.02 | 1.69 | 0.80 | 0.80 |
| 62.47 | 448.15 | 126.07 | 1.00 | 126.07 | 1.70 | 0.79 | 0.79 |
| 62.51 | 453.68 | 127.59 | 1.00 | 127.59 | 1.69 | 0.79 | 0.79 |
| 62.56 | 463.98 | 130.45 | 1.00 | 130.45 | 1.69 | 0.80 | 0.80 |
| 62.60 | 477.62 | 134.26 | 1.00 | 134.26 | 1.68 | 0.80 | 0.80 |
| 62.65 | 481.73 | 135.35 | 1.00 | 135.35 | 1.68 | 0.81 | 0.81 |
| 62.70 | 482.34 | 135.46 | 1.00 | 135.46 | 1.66 | 0.81 | 0.81 |
| 62.75 | 483.05 | 135.59 | 1.00 | 135.59 | 1.65 | 0.81 | 0.81 |
| 62.80 | 494.83 | 138.85 | 1.00 | 138.85 | 1.64 | 0.81 | 0.81 |
| 62.85 | 525.29 | 147.40 | 1.00 | 147.40 | 1.60 | 0.82 | 0.82 |
| 62.89 | 569.18 | 159.73 | 1.00 | 159.73 | 1.56 | 0.84 | 0.84 |
| 62.97 | 619.66 | 173.86 | 1.00 | 173.86 | 1.54 | 0.86 | 0.86 |
| 63.04 | 667.84 | 187.32 | 1.00 | 187.32 | 1.52 | 0.87 | 0.87 |
| 63.09 | 703.12 | 197.18 | 1.00 | 197.18 | 1.50 | 0.88 | 0.88 |
| 63.13 | 715.51 | 200.57 | 1.00 | 200.57 | 1.51 | 0.89 | 0.89 |
| 63.19 | 716.52 | 200.74 | 1.00 | 200.74 | 1.54 | 0.89 | 0.89 |
| 63.23 | 720.23 | 201.69 | 1.00 | 201.69 | 1.57 | 0.89 | 0.89 |
| 63.28 | 726.78 | 203.42 | 1.00 | 203.42 | 1.59 | 0.89 | 0.89 |
| 63.32 | 729.18 | 204.02 | 1.00 | 204.02 | 1.57 | 0.89 | 0.89 |
| 63.38 | 725.67 | 202.89 | 1.00 | 202.89 | 1.49 | 0.89 | 0.89 |
| 63.44 | 726.68 | 203.06 | 1.00 | 203.06 | 1.43 | 0.89 | 0.89 |
| 63.52 | 715.48 | 199.75 | 1.00 | 199.75 | 1.43 | 0.89 | 0.89 |
| 63.57 | 697.37 | 194.57 | 1.00 | 194.57 | 1.49 | 0.88 | 0.88 |
| 63.66 | 659.58 | 183.79 | 1.00 | 183.79 | 1.52 | 0.87 | 0.87 |
| 63.73 | 534.95 | 148.76 | 1.00 | 148.76 | 1.63 | 0.83 | 0.83 |
| 63.76 | 455.61 | 126.50 | 1.03 | 130.54 | 1.72 | 0.80 | 0.80 |
| 63.76 | 411.85 | 114.24 | 1.12 | 127.66 | 1.77 | 0.79 | 0.79 |
| 63.78 | 471.87 | 131.02 | 1.00 | 131.02 | 1.70 | 0.80 | 0.80 |
| 63.81 | 512.86 | 142.46 | 1.00 | 142.46 | 1.67 | 0.82 | 0.82 |
| 63.85 | 526.43 | 146.19 | 1.00 | 146.19 | 1.68 | 0.82 | 0.82 |
| 63.86 | 522.58 | 145.10 | 1.00 | 145.10 | 1.70 | 0.82 | 0.82 |
| 63.91 | 497.92 | 138.14 | 1.07 | 148.35 | 1.74 | 0.82 | 0.82 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 63.94 | 483.78 | 134.14 | 1.12 | 150.35 | 1.77 | 0.83 | 0.83 |
| 63.95 | 480.34 | 133.15 | 1.14 | 151.38 | 1.79 | 0.83 | 0.83 |
| 64.00 | 476.26 | 131.94 | 1.14 | 150.67 | 1.79 | 0.83 | 0.83 |
| 64.02 | 473.22 | 131.08 | 1.14 | 149.37 | 1.79 | 0.83 | 0.83 |
| 64.05 | 475.78 | 131.75 | 1.12 | 148.02 | 1.78 | 0.82 | 0.82 |
| 64.09 | 478.18 | 132.36 | 1.11 | 146.64 | 1.77 | 0.82 | 0.82 |
| 64.11 | 480.07 | 132.86 | 1.09 | 144.77 | 1.75 | 0.82 | 0.82 |
| 64.15 | 482.26 | 133.43 | 1.07 | 142.44 | 1.74 | 0.82 | 0.82 |
| 64.20 | 494.31 | 136.71 | 1.03 | 141.24 | 1.72 | 0.81 | 0.81 |
| 64.25 | 512.59 | 141.74 | 1.00 | 141.74 | 1.70 | 0.82 | 0.82 |
| 64.29 | 535.70 | 148.11 | 1.00 | 148.11 | 1.68 | 0.82 | 0.82 |
| 64.34 | 570.38 | 157.68 | 1.00 | 157.68 | 1.64 | 0.84 | 0.84 |
| 64.43 | 605.81 | 167.40 | 1.00 | 167.40 | 1.60 | 0.85 | 0.85 |
| 64.48 | 630.95 | 174.30 | 1.00 | 174.30 | 1.56 | 0.86 | 0.86 |
| 64.53 | 642.69 | 177.47 | 1.00 | 177.47 | 1.53 | 0.86 | 0.86 |
| 64.58 | 655.07 | 180.82 | 1.00 | 180.82 | 1.52 | 0.87 | 0.87 |
| 64.63 | 680.65 | 187.83 | 1.00 | 187.83 | 1.51 | 0.87 | 0.87 |
| 64.68 | 709.63 | 195.77 | 1.00 | 195.77 | 1.52 | 0.88 | 0.88 |
| 64.73 | 718.74 | 198.20 | 1.00 | 198.20 | 1.53 | 0.88 | 0.88 |
| 64.77 | 735.60 | 202.79 | 1.00 | 202.79 | 1.51 | 0.89 | 0.89 |
| 64.82 | 751.19 | 207.01 | 1.00 | 207.01 | 1.48 | 0.89 | 0.89 |
| 64.87 | 732.64 | 201.76 | 1.00 | 201.76 | 1.49 | 0.89 | 0.89 |
| 64.89 | 713.98 | 196.56 | 1.00 | 196.56 | 1.50 | 0.88 | 0.88 |
| 64.93 | 689.59 | 189.73 | 1.00 | 189.73 | 1.53 | 0.88 | 0.88 |
| 64.94 | 715.81 | 196.96 | 1.00 | 196.96 | 1.51 | 0.88 | 0.88 |
| 64.98 | 725.69 | 199.62 | 1.00 | 199.62 | 1.50 | 0.89 | 0.89 |
| 64.99 | 734.03 | 201.90 | 1.00 | 201.90 | 1.50 | 0.89 | 0.89 |
| 65.03 | 732.37 | 201.35 | 1.00 | 201.35 | 1.50 | 0.89 | 0.89 |
| 65.08 | 727.04 | 199.79 | 1.00 | 199.79 | 1.49 | 0.89 | 0.89 |
| 65.13 | 715.51 | 196.50 | 1.00 | 196.50 | 1.48 | 0.88 | 0.88 |
| 65.17 | 703.60 | 193.13 | 1.00 | 193.13 | 1.46 | 0.88 | 0.88 |
| 65.22 | 689.29 | 189.08 | 1.00 | 189.08 | 1.45 | 0.87 | 0.87 |
| 65.23 | 681.55 | 186.93 | 1.00 | 186.93 | 1.45 | 0.87 | 0.87 |
| 65.28 | 679.28 | 186.22 | 1.00 | 186.22 | 1.46 | 0.87 | 0.87 |
| 65.32 | 679.65 | 186.24 | 1.00 | 186.24 | 1.47 | 0.87 | 0.87 |
| 65.37 | 680.17 | 186.30 | 1.00 | 186.30 | 1.49 | 0.87 | 0.87 |
| 65.42 | 684.61 | 187.42 | 1.00 | 187.42 | 1.50 | 0.87 | 0.87 |
| 65.47 | 671.65 | 183.76 | 1.00 | 183.76 | 1.50 | 0.87 | 0.87 |
| 65.48 | 657.21 | 179.77 | 1.00 | 179.77 | 1.52 | 0.86 | 0.86 |
| 65.49 | 638.86 | 174.70 | 1.00 | 174.70 | 1.52 | 0.86 | 0.86 |
| 65.52 | 636.56 | 174.01 | 1.00 | 174.01 | 1.52 | 0.86 | 0.86 |
| 65.57 | 645.67 | 176.43 | 1.00 | 176.43 | 1.41 | 0.86 | 0.86 |
| 65.62 | 661.16 | 180.61 | 1.00 | 180.61 | 1.28 | 0.87 | 0.87 |
| 65.67 | 682.44 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 65.69 | 697.23 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 65.72 | 719.02 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 65.77 | 752.26 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 65.82 | 790.78 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |

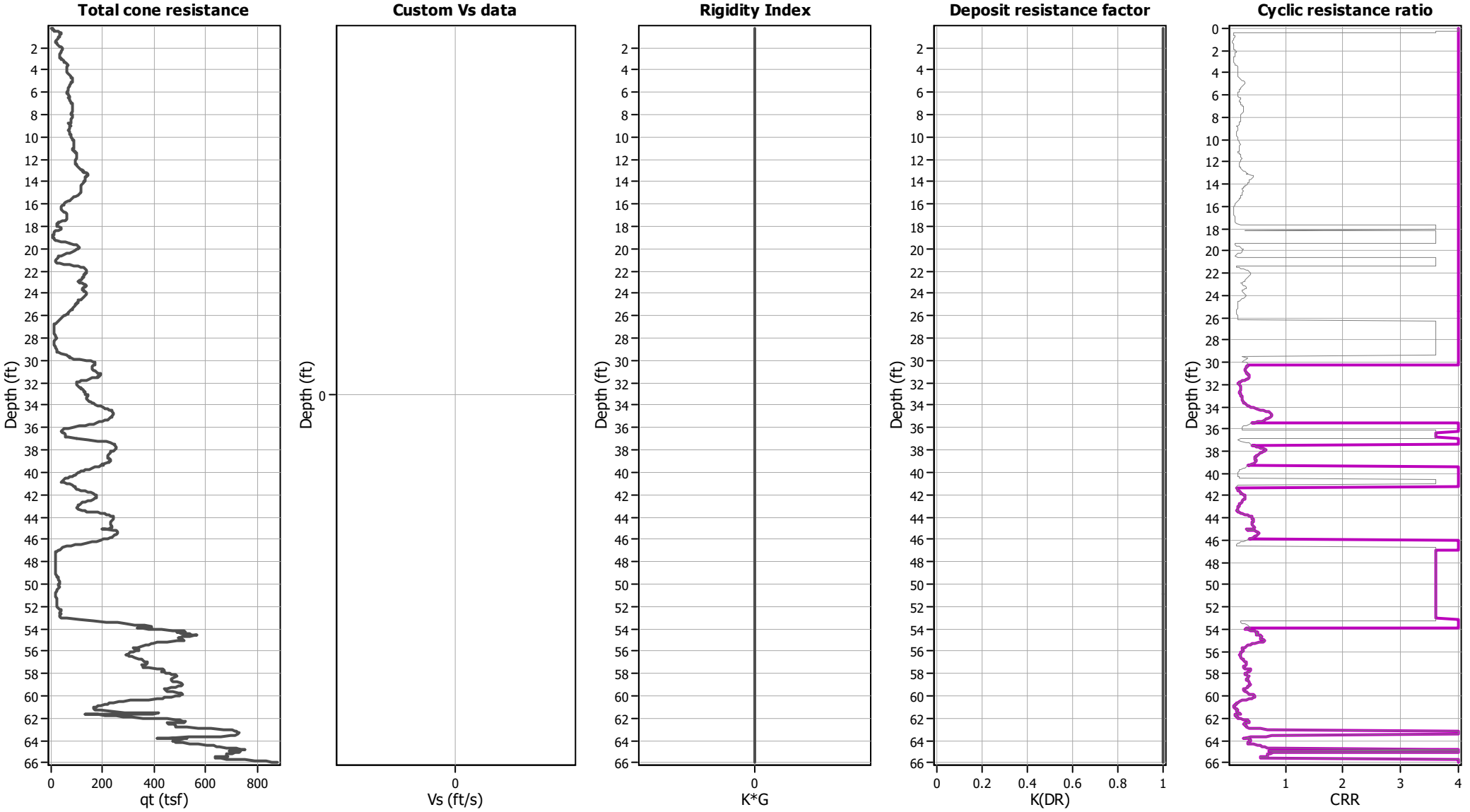
**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 65.86 | 811.97 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 65.86 | 833.63 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 65.91 | 854.04 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 65.96 | 878.41 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |

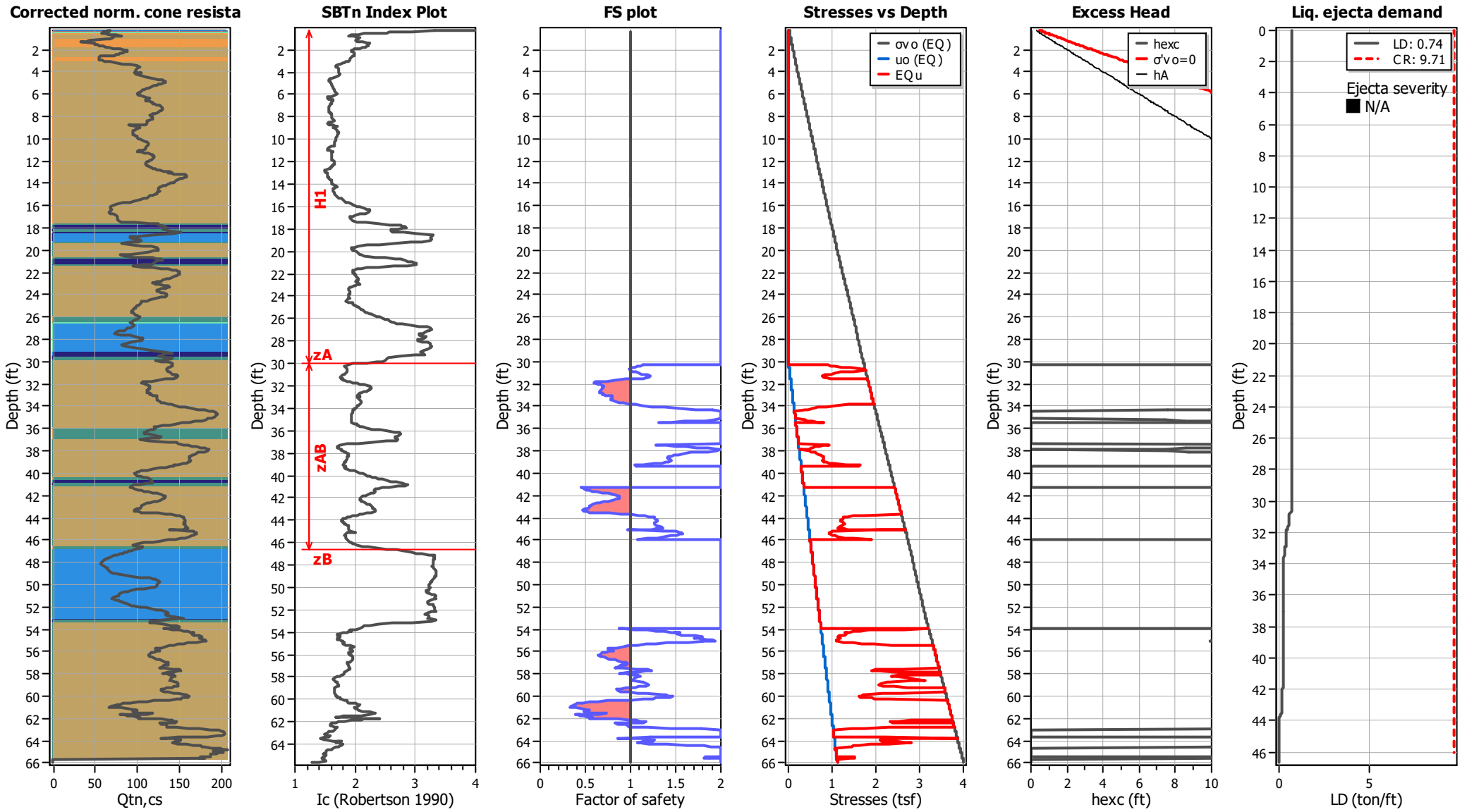
**Abbreviations**

$q_t$: Total cone resistance
$K_c$: Cone resistance correction factor due to fines
$Q_{tn,cs}$: Adjusted and corrected cone resistance due to fines
$I_c$: Soil behavior type index
$S_{u(liq)}/\sigma'_v$: Calculated liquefied undrained strength ratio
$S_{u(peak)}/\sigma'_v$: Calculated peak undrained strength ratio

## Aging Calculation Estimation



# Ejecta Severity Estimation



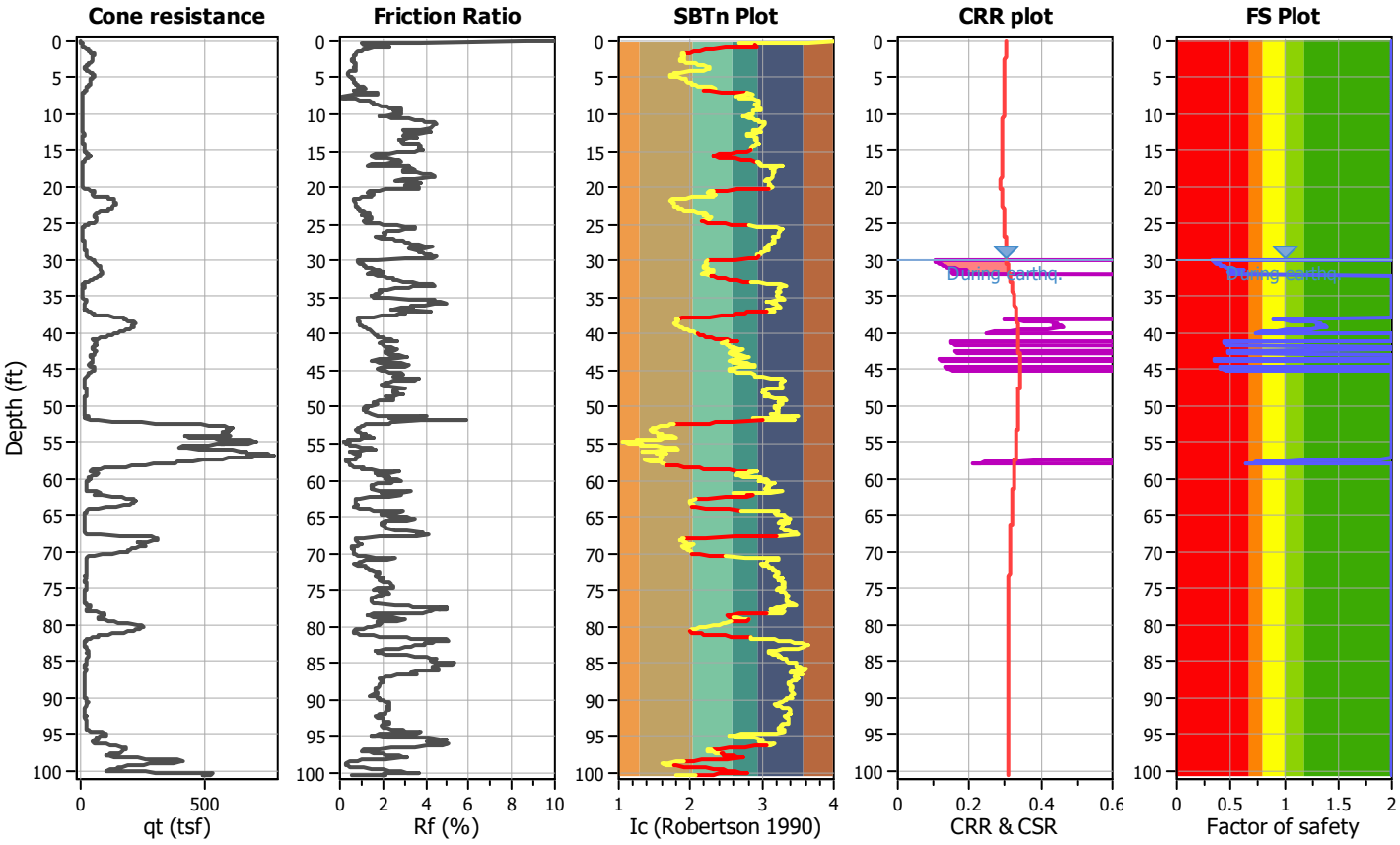
# LIQUEFACTION ANALYSIS REPORT

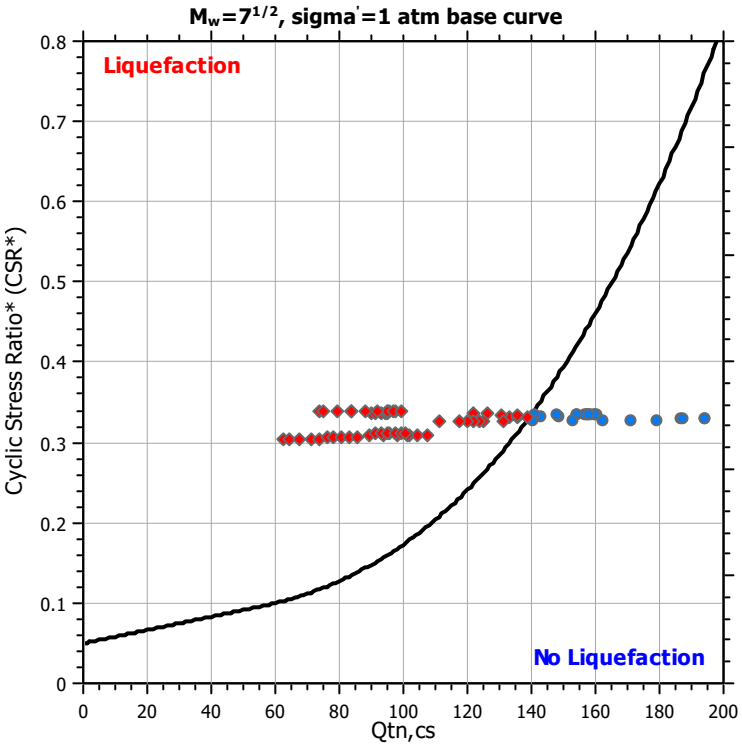
**Project title : W1857-88-01** **Location : 331 The City Drive S**

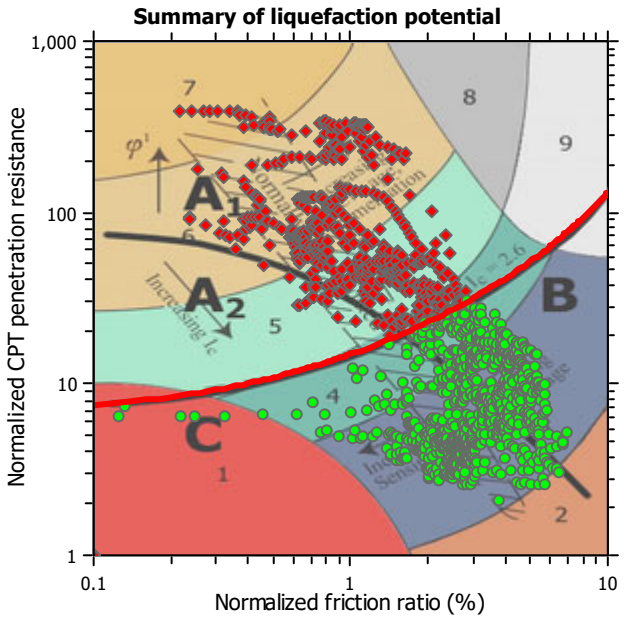
**CPT file : CPT-3**

**Input parameters and analysis data**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | G.W.T. (in-situ): | 54.00 ft | Use fill: | No | Clay like behavior applied: | Sands only |
| Fines correction method: | NCEER (1998) | G.W.T. (earthq.): | 30.00 ft | Fill height: | N/A | Limit depth applied: | Yes |
| Points to test: | Based on Ic value | Average results interval: | 3 | Fill weight: | N/A | Limit depth: | 62.00 ft |
| Earthquake magnitude $M_w$: | 6.65 | Ic cut-off value: | 2.60 | Trans. detect. applied: | Yes | MSF method: | Method based |
| Peak ground acceleration: | 0.63 | Unit weight calculation: | Based on SBT | $K_\sigma$ applied: | Yes | | |

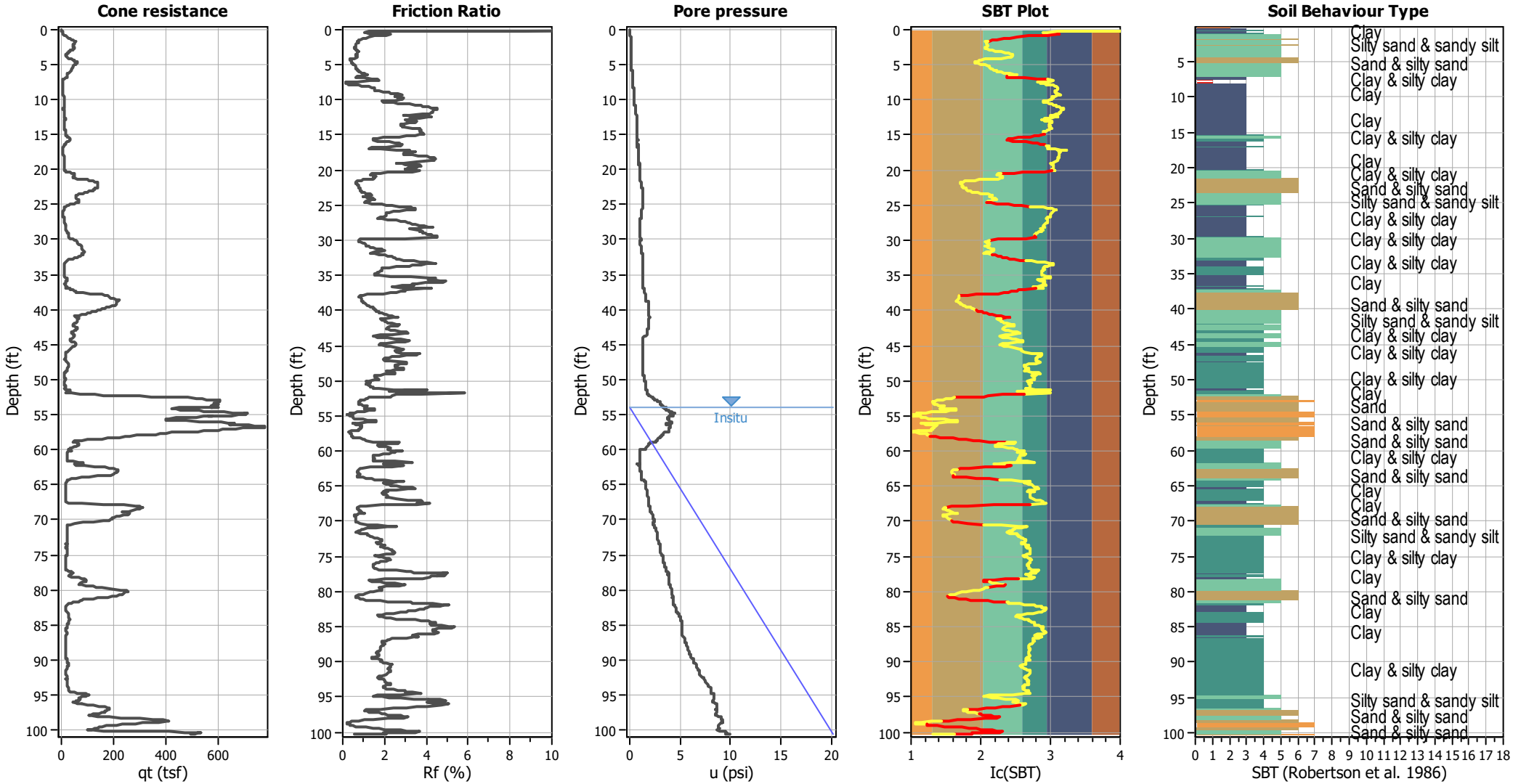



Zone $A_1$: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone $A_2$: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

# CPT basic interpretation plots



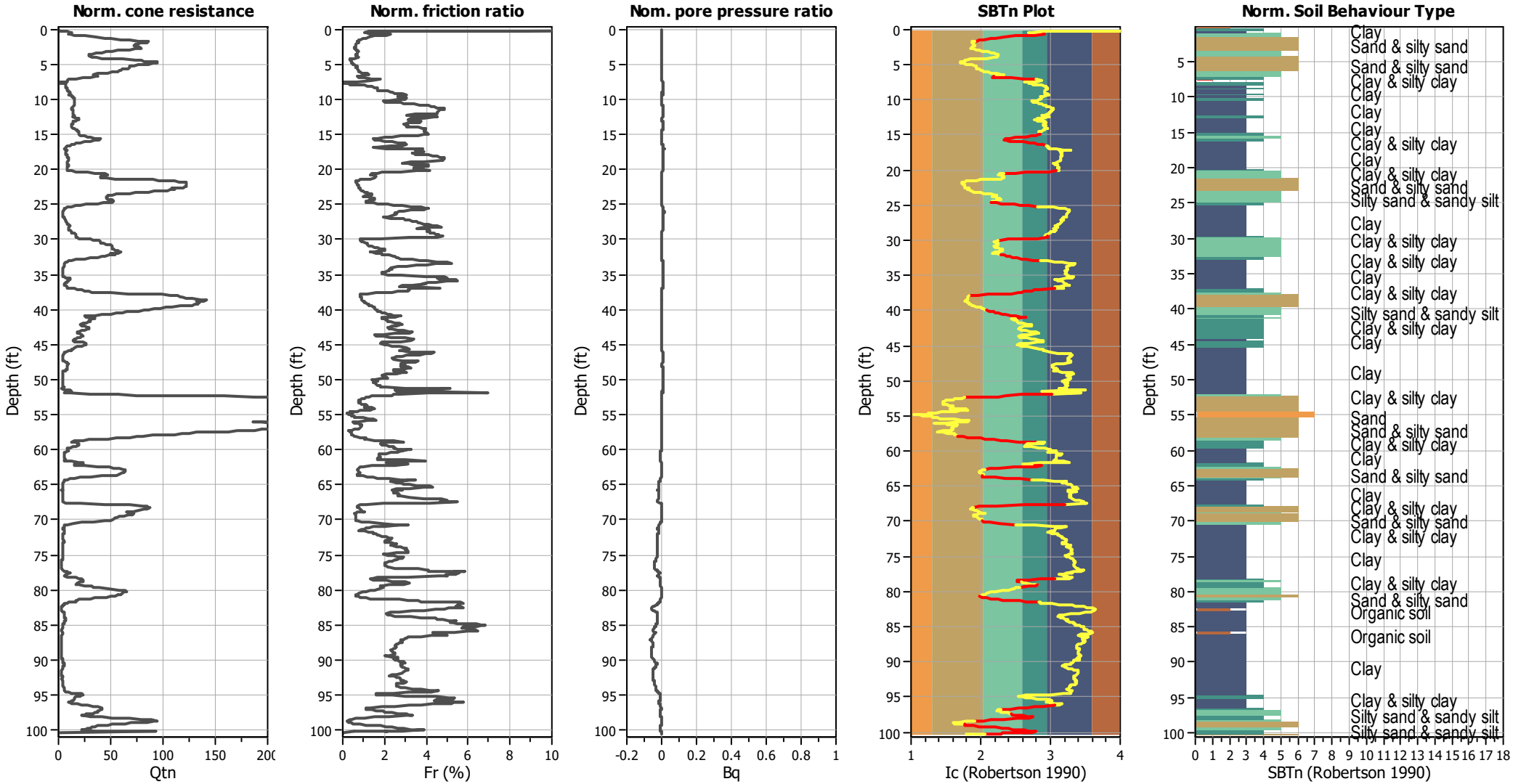

## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.65 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.63 | Use fill: | No | Limit depth applied: | Yes |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | 62.00 ft |

**SBT legend**

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

# CPT basic interpretation plots (normalized)



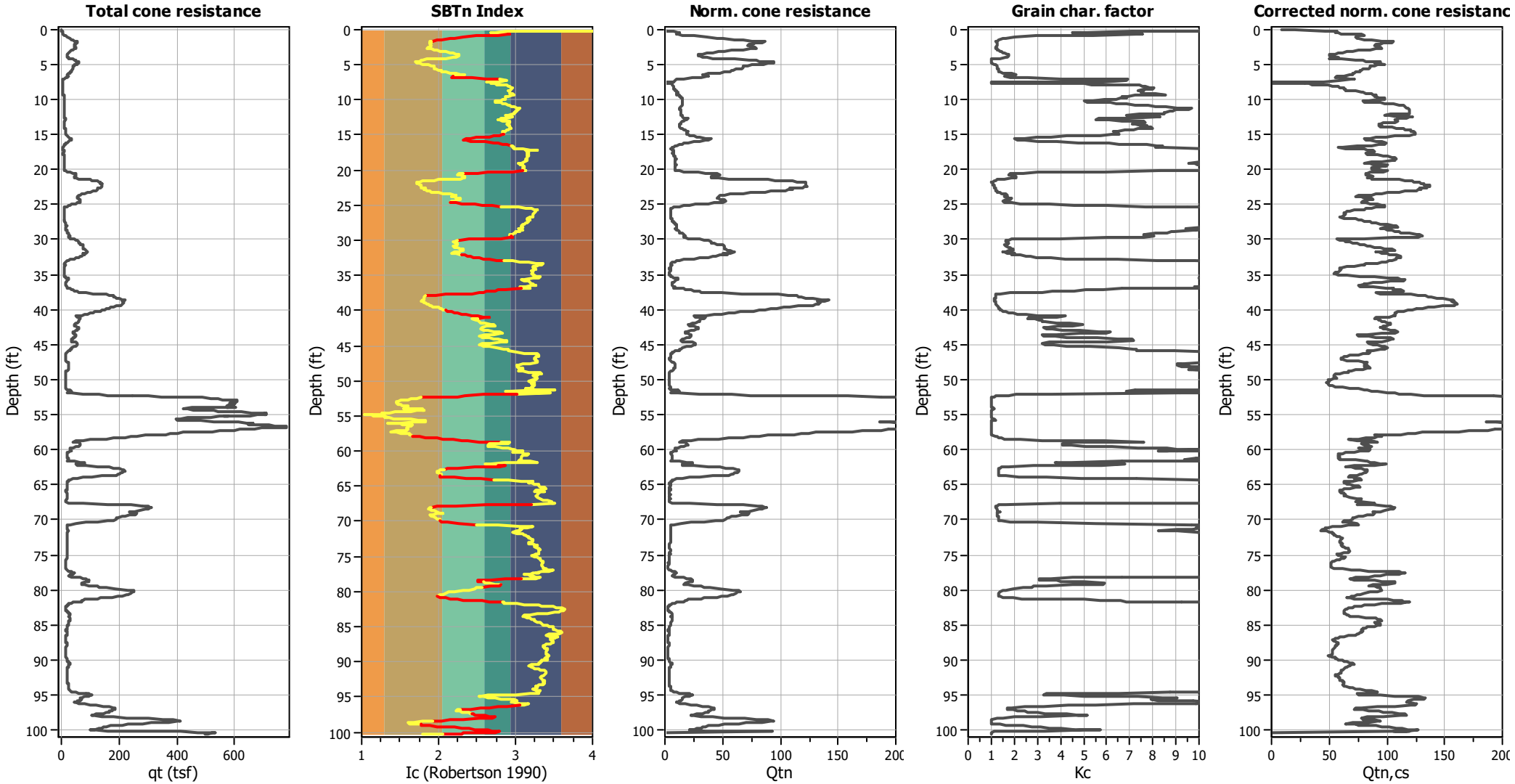

## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.65 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.63 | Use fill: | No | Limit depth applied: | Yes |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | 62.00 ft |

**SBTn legend**

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

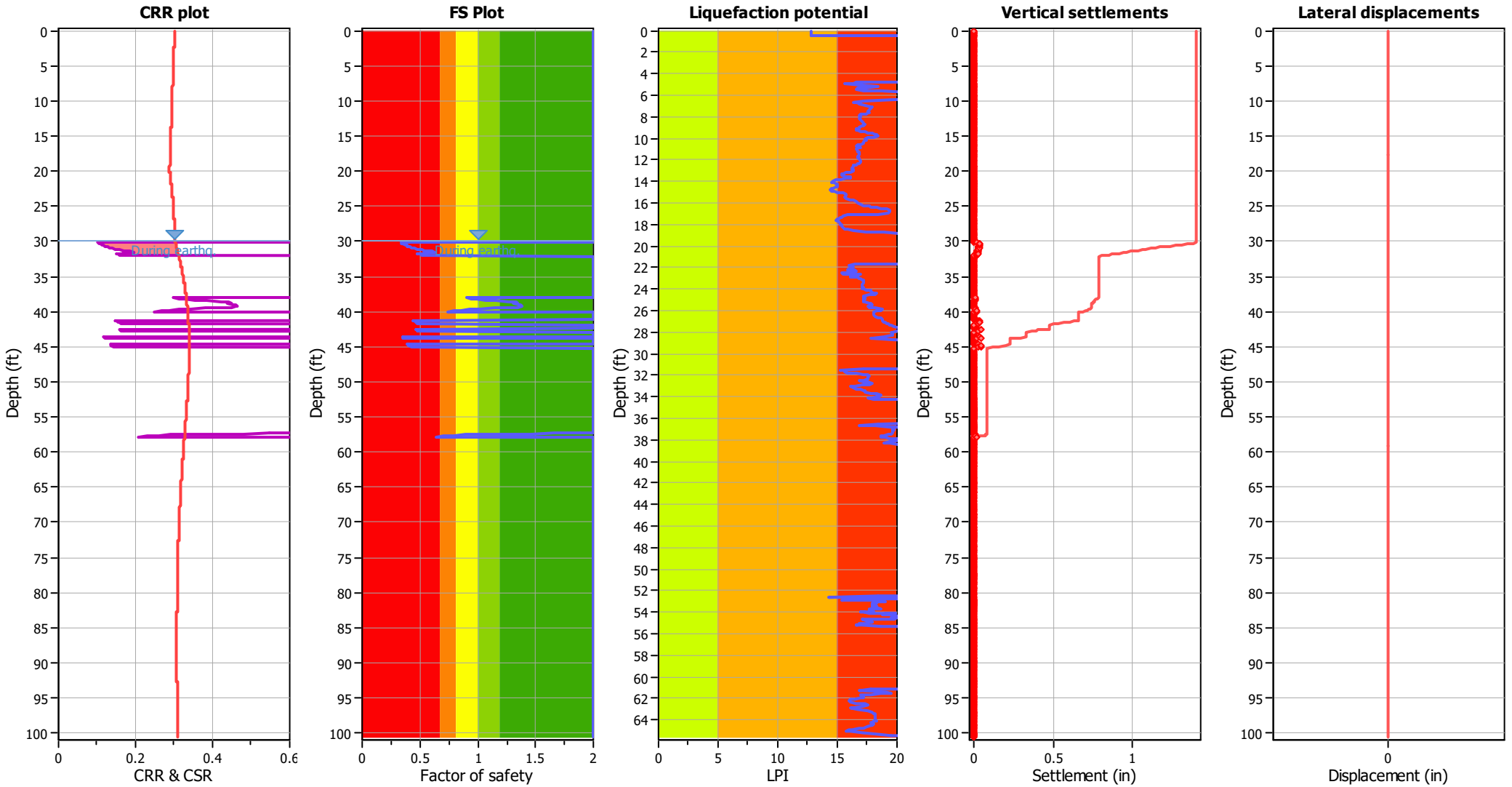
# Liquefaction analysis overall plots (intermediate results)




## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.65 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.63 | Use fill: | No | Limit depth applied: | Yes |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | 62.00 ft |

# Liquefaction analysis overall plots




## Input parameters and analysis data

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.65 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.63 | Use fill: | No | Limit depth applied: | Yes |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | 62.00 ft |

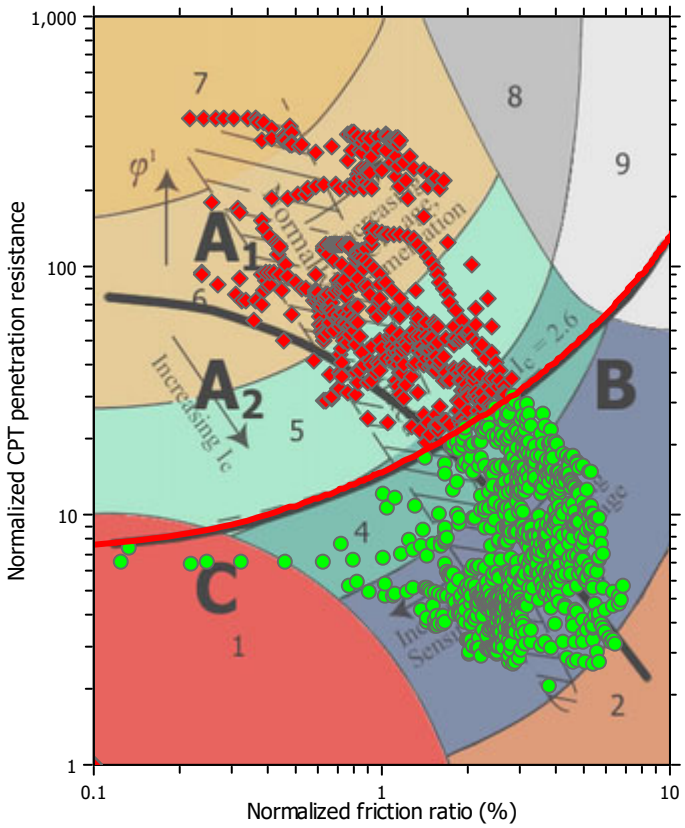
**F.S. color scheme**

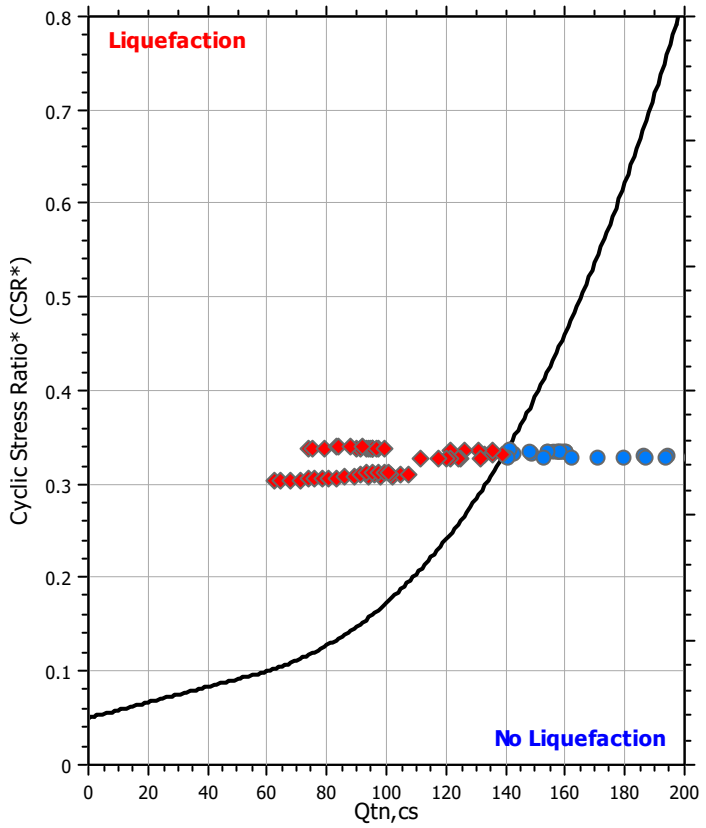
- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

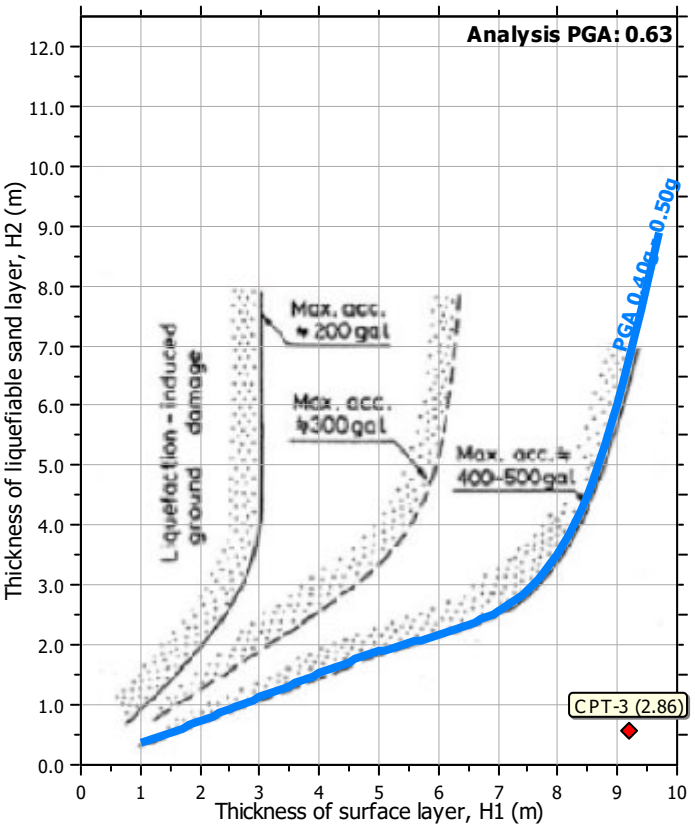
**LPI color scheme**

- Very high risk
- High risk
- Low risk

# Liquefaction analysis summary plots



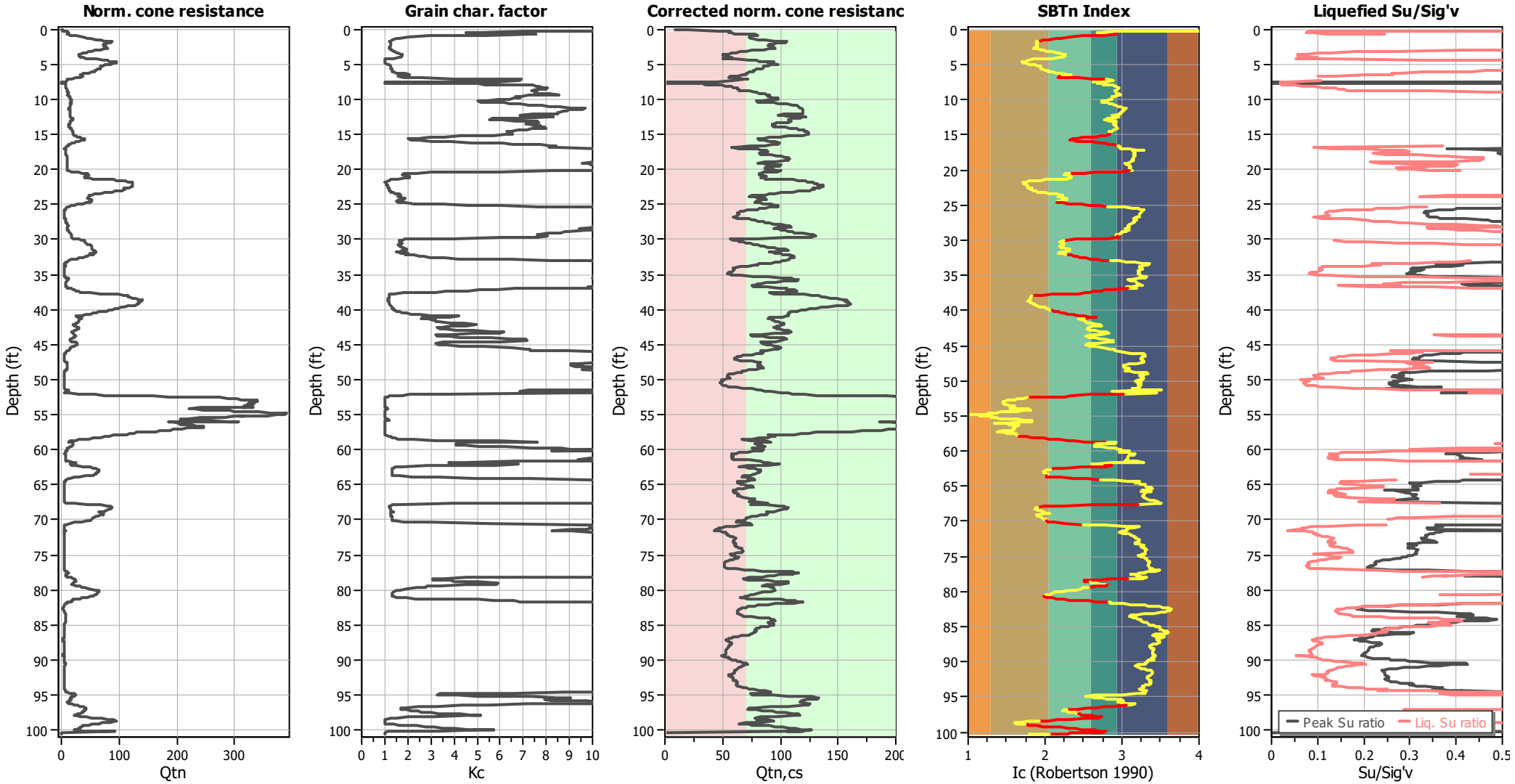




**Input parameters and analysis data**

| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.65 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.63 | Use fill: | No | Limit depth applied: | Yes |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | 62.00 ft |

## Check for strength loss plots (Robertson (2010))




### Input parameters and analysis data

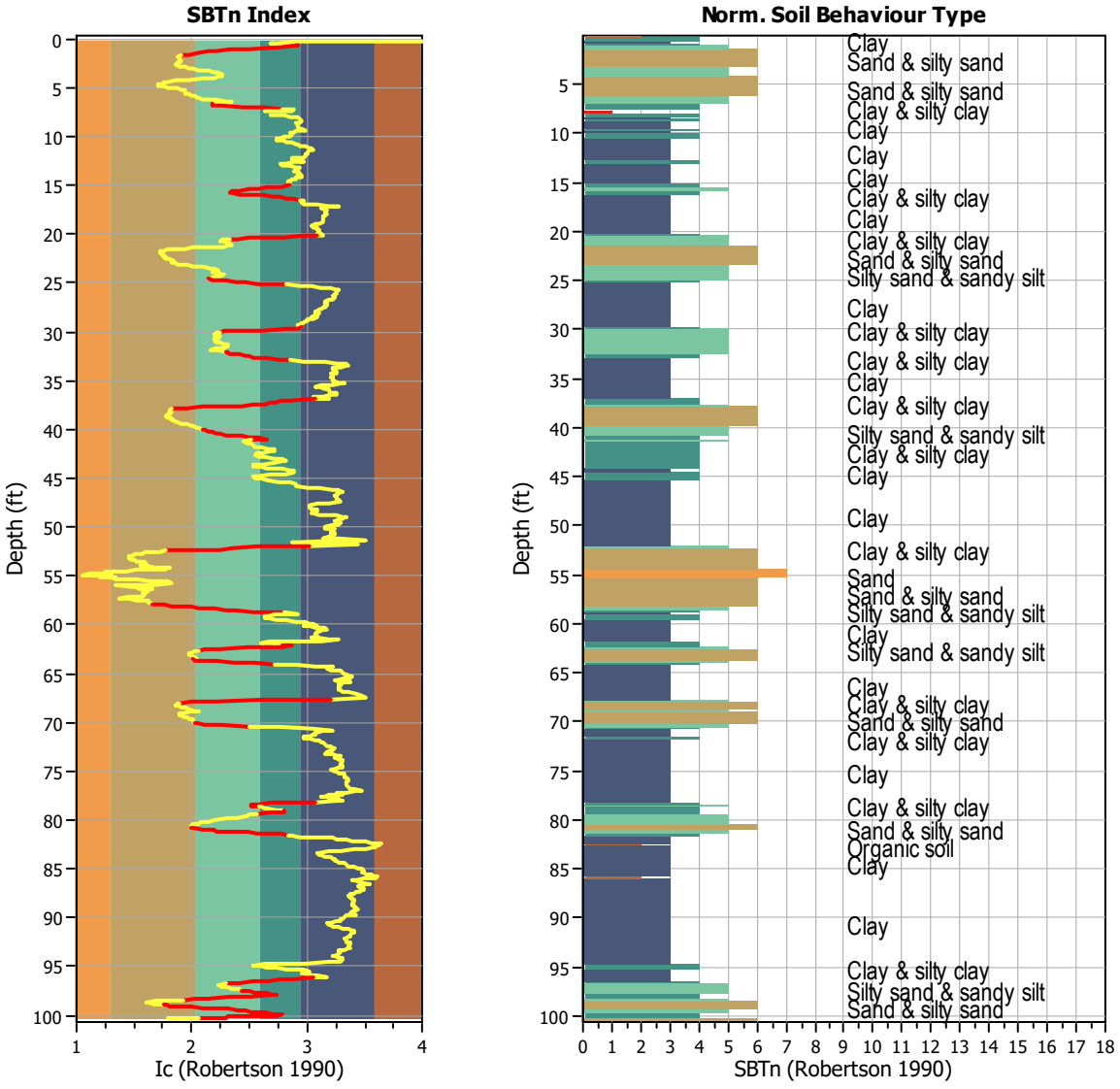
| | | | | | |
|---|---|---|---|---|---|
| Analysis method: | NCEER (1998) | Depth to water table (erthq.): | 30.00 ft | Fill weight: | N/A |
| Fines correction method: | NCEER (1998) | Average results interval: | 3 | Transition detect. applied: | Yes |
| Points to test: | Based on Ic value | Ic cut-off value: | 2.60 | $K_\sigma$ applied: | Yes |
| Earthquake magnitude $M_w$: | 6.65 | Unit weight calculation: | Based on SBT | Clay like behavior applied: | Sands only |
| Peak ground acceleration: | 0.63 | Use fill: | No | Limit depth applied: | Yes |
| Depth to water table (insitu): | 54.00 ft | Fill height: | N/A | Limit depth: | 62.00 ft |

# TRANSITION LAYER DETECTION ALGORITHM REPORT
## Summary Details & Plots

**Short description**

The software will delete data when the cone is in transition from either clay to sand or vise-versa. To do this the software requires a range of $I_c$ values over which the transition will be defined (typically somewhere between 1.80 < $I_c$ < 3.0) and a rate of change of $I_c$. Transitions typically occur when the rate of change of $I_c$ is fast (i.e. delta $I_c$ is small).

The $SBT_n$ plot below, displays in red the detected transition layers based on the parameters listed below the graphs.




**Transition layer algorithm properties**

| | |
|---|---|
| $I_c$ minimum check value: | 1.70 |
| $I_c$ maximum check value: | 3.00 |
| $I_c$ change ratio value: | 0.0250 |
| Minimum number of points in layer: | 4 |

**General statistics**

| | |
|---|---|
| Total points in CPT file: | 1376 |
| Total points excluded: | 224 |
| Exclusion percentage: | 16.28% |
| Number of layers detected: | 26 |

| Transition layer No | Number of points | Depth | $SBT_n$ number | $SBT_n$ description |
|---|---|---|---|---|
| Transition layer 1 | 12 | Start depth: 0.72 (ft) | 3 | Clay |
| | | End depth: 1.74 (ft) | 6 | Sand & silty sand |
| Transition layer 2 | 6 | Start depth: 6.76 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 7.19 (ft) | 4 | Clay & silty clay |
| Transition layer 3 | 9 | Start depth: 14.99 (ft) | 3 | Clay |
| | | End depth: 15.67 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 4 | 11 | Start depth: 15.76 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 16.58 (ft) | 3 | Clay |
| Transition layer 5 | 7 | Start depth: 20.21 (ft) | 3 | Clay |
| | | End depth: 20.60 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 6 | 9 | Start depth: 24.64 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 25.27 (ft) | 3 | Clay |
| Transition layer 7 | 8 | Start depth: 29.55 (ft) | 3 | Clay |
| | | End depth: 30.13 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 8 | 12 | Start depth: 32.12 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 32.98 (ft) | 3 | Clay |
| Transition layer 9 | 15 | Start depth: 36.97 (ft) | 3 | Clay |
| | | End depth: 37.97 (ft) | 6 | Sand & silty sand |
| Transition layer 10 | 12 | Start depth: 40.09 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 40.97 (ft) | 4 | Clay & silty clay |
| Transition layer 11 | 4 | Start depth: 40.97 (ft) | 4 | Clay & silty clay |
| | | End depth: 41.15 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 12 | 8 | Start depth: 52.01 (ft) | 4 | Clay & silty clay |
| | | End depth: 52.45 (ft) | 6 | Sand & silty sand |
| Transition layer 13 | 14 | Start depth: 57.92 (ft) | 6 | Sand & silty sand |
| | | End depth: 58.84 (ft) | 3 | Clay |
| Transition layer 14 | 7 | Start depth: 62.10 (ft) | 3 | Clay |
| | | End depth: 62.74 (ft) | 6 | Sand & silty sand |
| Transition layer 15 | 7 | Start depth: 63.61 (ft) | 6 | Sand & silty sand |
| | | End depth: 64.15 (ft) | 3 | Clay |
| Transition layer 16 | 5 | Start depth: 67.68 (ft) | 4 | Clay & silty clay |
| | | End depth: 68.07 (ft) | 6 | Sand & silty sand |
| Transition layer 17 | 5 | Start depth: 70.08 (ft) | 6 | Sand & silty sand |
| | | End depth: 70.54 (ft) | 4 | Clay & silty clay |
| Transition layer 18 | 4 | Start depth: 78.24 (ft) | 4 | Clay & silty clay |
| | | End depth: 78.47 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 19 | 4 | Start depth: 78.53 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 78.69 (ft) | 4 | Clay & silty clay |
| Transition layer 20 | 4 | Start depth: 79.16 (ft) | 4 | Clay & silty clay |
| | | End depth: 79.45 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 21 | 15 | Start depth: 80.83 (ft) | 6 | Sand & silty sand |
| | | End depth: 81.56 (ft) | 3 | Clay |
| Transition layer 22 | 7 | Start depth: 96.30 (ft) | 3 | Clay |
| | | End depth: 96.87 (ft) | 5 | Silty sand & sandy silt |
| Transition layer 23 | 8 | Start depth: 97.45 (ft) | 5 | Silty sand & sandy silt |
| | | End depth: 97.88 (ft) | 4 | Clay & silty clay |

| Transition layer No | Number of points | Depth | $SBT_n$ number | $SBT_n$ description |
|---|---|---|---|---|
| Transition layer 24 | 8 | Start depth: 97.88 (ft) | 4 | Clay & silty clay |
| | | End depth: 98.47 (ft) | 6 | Sand & silty sand |
| Transition layer 25 | 14 | Start depth: 98.98 (ft) | 6 | Sand & silty sand |
| | | End depth: 99.95 (ft) | 3 | Clay |
| Transition layer 26 | 9 | Start depth: 99.95 (ft) | 3 | Clay |
| | | End depth: 100.28 (ft) | 6 | Sand & silty sand |

Start depth: Depth where the transition layer begins
End depth: Depth where the transition layer ends

**:: Field input data ::**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1 | 0.04 | 0.10 | 0.03 | 0.00 | 100.00 | 87.36 |
| 2 | 0.10 | 0.10 | 0.04 | 0.00 | 100.00 | 87.36 |
| 3 | 0.11 | 0.20 | 0.05 | 0.00 | 100.00 | 87.36 |
| 4 | 0.16 | 0.40 | 0.05 | 0.00 | 100.00 | 87.36 |
| 5 | 0.19 | 1.01 | 0.05 | 0.00 | 100.00 | 88.74 |
| 6 | 0.24 | 2.43 | 0.05 | 0.00 | 71.90 | 91.34 |
| 7 | 0.31 | 5.06 | 0.06 | 0.00 | 51.48 | 93.80 |
| 8 | 0.38 | 7.29 | 0.07 | 0.00 | 42.56 | 95.48 |
| 9 | 0.43 | 7.69 | 0.08 | 0.00 | 39.63 | 96.43 |
| 10 | 0.49 | 7.69 | 0.08 | 0.00 | 41.35 | 96.84 |
| 11 | 0.58 | 6.58 | 0.09 | 0.00 | 44.64 | 97.26 |
| 12 | 0.63 | 6.17 | 0.10 | 0.00 | 49.07 | 97.85 |
| 13 | 0.67 | 5.97 | 0.11 | 0.00 | 51.93 | 98.72 |
| 14 | 0.72 | 6.02 | 0.13 | 0.00 | 53.54 | 99.42 |
| 15 | 0.72 | 6.07 | 0.13 | 0.00 | 52.47 | 101.17 |
| 16 | 0.84 | 8.00 | 0.20 | 0.00 | 44.02 | 103.62 |
| 17 | 0.96 | 13.76 | 0.25 | 0.00 | 30.61 | 106.61 |
| 18 | 1.06 | 25.71 | 0.28 | 0.10 | 23.44 | 108.76 |
| 19 | 1.24 | 28.44 | 0.33 | 0.10 | 19.50 | 109.81 |
| 20 | 1.30 | 29.76 | 0.31 | 0.10 | 17.10 | 110.05 |
| 21 | 1.48 | 36.23 | 0.28 | 0.10 | 14.00 | 110.41 |
| 22 | 1.59 | 45.85 | 0.33 | 0.10 | 12.36 | 111.13 |
| 23 | 1.69 | 44.33 | 0.37 | 0.10 | 11.12 | 112.10 |
| 24 | 1.69 | 52.02 | 0.37 | 0.10 | 10.74 | 112.65 |
| 25 | 1.74 | 53.04 | 0.39 | 0.10 | 9.92 | 112.99 |
| 26 | 1.79 | 54.66 | 0.40 | 0.10 | 9.87 | 113.14 |
| 27 | 1.84 | 53.64 | 0.39 | 0.10 | 10.04 | 113.01 |
| 28 | 1.88 | 50.40 | 0.38 | 0.10 | 10.26 | 112.64 |
| 29 | 1.93 | 49.70 | 0.35 | 0.10 | 10.40 | 112.09 |
| 30 | 1.99 | 48.28 | 0.32 | 0.10 | 10.27 | 111.60 |
| 31 | 2.03 | 48.08 | 0.31 | 0.10 | 10.19 | 111.23 |
| 32 | 2.08 | 47.87 | 0.31 | 0.10 | 10.14 | 110.98 |
| 33 | 2.13 | 47.06 | 0.29 | 0.10 | 10.28 | 110.80 |
| 34 | 2.22 | 45.65 | 0.30 | 0.10 | 10.49 | 110.61 |
| 35 | 2.27 | 44.84 | 0.29 | 0.10 | 10.68 | 110.44 |
| 36 | 2.33 | 44.43 | 0.28 | 0.10 | 10.61 | 110.26 |
| 37 | 2.42 | 45.04 | 0.28 | 0.10 | 10.34 | 110.23 |
| 38 | 2.48 | 46.86 | 0.28 | 0.10 | 9.95 | 110.30 |
| 39 | 2.56 | 48.28 | 0.28 | 0.10 | 9.56 | 110.53 |
| 40 | 2.65 | 50.10 | 0.29 | 0.10 | 9.36 | 110.70 |
| 41 | 2.72 | 49.90 | 0.29 | 0.10 | 9.62 | 110.74 |
| 42 | 2.80 | 46.15 | 0.29 | 0.10 | 10.31 | 110.44 |
| 43 | 2.89 | 42.00 | 0.28 | 0.10 | 11.29 | 109.97 |
| 44 | 2.94 | 39.17 | 0.26 | 0.10 | 12.40 | 109.53 |
| 45 | 3.04 | 35.93 | 0.26 | 0.10 | 13.48 | 109.00 |
| 46 | 3.14 | 32.59 | 0.24 | 0.10 | 14.78 | 108.19 |
| 47 | 3.23 | 28.44 | 0.21 | 0.10 | 15.91 | 107.05 |
| 48 | 3.31 | 26.01 | 0.18 | 0.10 | 17.31 | 105.88 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 49 | 3.37 | 22.77 | 0.17 | 0.10 | 18.64 | 104.75 |
| 50 | 3.48 | 20.34 | 0.15 | 0.10 | 20.16 | 103.47 |
| 51 | 3.57 | 18.02 | 0.12 | 0.10 | 20.83 | 102.23 |
| 52 | 3.65 | 18.02 | 0.11 | 0.10 | 20.99 | 101.38 |
| 53 | 3.71 | 18.02 | 0.11 | 0.10 | 20.91 | 101.29 |
| 54 | 3.82 | 18.02 | 0.11 | 0.10 | 20.93 | 102.11 |
| 55 | 3.91 | 19.84 | 0.15 | 0.10 | 20.16 | 103.21 |
| 56 | 4.00 | 22.67 | 0.16 | 0.10 | 18.85 | 104.71 |
| 57 | 4.10 | 25.91 | 0.19 | 0.10 | 15.53 | 104.42 |
| 58 | 4.19 | 30.57 | 0.11 | 0.10 | 5.00 | 104.40 |
| 59 | 4.26 | 37.15 | 0.13 | 0.10 | 5.00 | 104.51 |
| 60 | 4.35 | 46.05 | 0.17 | 0.10 | 5.00 | 106.46 |
| 61 | 4.44 | 53.64 | 0.20 | 0.19 | 5.00 | 107.75 |
| 62 | 4.52 | 49.70 | 0.21 | 0.19 | 5.00 | 108.36 |
| 63 | 4.53 | 50.81 | 0.21 | 0.19 | 5.00 | 108.59 |
| 64 | 4.58 | 56.27 | 0.21 | 0.19 | 5.00 | 108.81 |
| 65 | 4.63 | 58.00 | 0.22 | 0.19 | 5.00 | 109.16 |
| 66 | 4.68 | 59.01 | 0.23 | 0.19 | 5.00 | 109.49 |
| 67 | 4.72 | 59.51 | 0.24 | 0.19 | 5.00 | 109.83 |
| 68 | 4.77 | 59.31 | 0.25 | 0.19 | 5.00 | 110.07 |
| 69 | 4.82 | 58.40 | 0.26 | 0.19 | 5.00 | 110.22 |
| 70 | 4.88 | 56.48 | 0.26 | 0.19 | 5.00 | 110.30 |
| 71 | 4.96 | 53.74 | 0.27 | 0.19 | 7.94 | 110.33 |
| 72 | 5.01 | 50.61 | 0.27 | 0.19 | 8.80 | 110.33 |
| 73 | 5.08 | 47.27 | 0.28 | 0.19 | 9.75 | 110.30 |
| 74 | 5.16 | 44.43 | 0.28 | 0.19 | 10.61 | 110.22 |
| 75 | 5.21 | 42.71 | 0.28 | 0.19 | 11.15 | 110.15 |
| 76 | 5.30 | 42.66 | 0.28 | 0.19 | 11.35 | 110.11 |
| 77 | 5.37 | 42.66 | 0.28 | 0.19 | 11.37 | 110.11 |
| 78 | 5.45 | 42.61 | 0.28 | 0.19 | 11.35 | 110.10 |
| 79 | 5.52 | 42.81 | 0.28 | 0.19 | 11.43 | 110.08 |
| 80 | 5.59 | 41.90 | 0.28 | 0.19 | 11.67 | 109.99 |
| 81 | 5.65 | 40.38 | 0.27 | 0.19 | 12.17 | 109.79 |
| 82 | 5.74 | 38.16 | 0.27 | 0.19 | 12.78 | 109.59 |
| 83 | 5.83 | 36.84 | 0.27 | 0.19 | 13.36 | 109.47 |
| 84 | 5.89 | 36.23 | 0.27 | 0.29 | 13.78 | 109.49 |
| 85 | 5.97 | 35.83 | 0.27 | 0.29 | 14.10 | 109.46 |
| 86 | 6.07 | 34.92 | 0.27 | 0.29 | 14.65 | 109.36 |
| 87 | 6.12 | 32.79 | 0.27 | 0.29 | 15.67 | 109.20 |
| 88 | 6.22 | 29.96 | 0.27 | 0.29 | 17.39 | 109.00 |
| 89 | 6.28 | 26.52 | 0.27 | 0.29 | 19.71 | 108.75 |
| 90 | 6.36 | 23.18 | 0.27 | 0.29 | 22.24 | 108.30 |
| 91 | 6.46 | 20.65 | 0.26 | 0.29 | 24.09 | 107.75 |
| 92 | 6.52 | 20.04 | 0.24 | 0.29 | 23.83 | 106.97 |
| 93 | 6.60 | 21.46 | 0.20 | 0.29 | 21.15 | 106.06 |
| 94 | 6.70 | 24.70 | 0.16 | 0.29 | 18.41 | 104.86 |
| 95 | 6.76 | 24.49 | 0.14 | 0.29 | 18.15 | 104.05 |
| 96 | 6.84 | 19.84 | 0.15 | 0.29 | 21.31 | 103.55 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 97 | 6.94 | 14.57 | 0.15 | 0.29 | 28.13 | 103.13 |
| 98 | 7.03 | 10.32 | 0.15 | 0.29 | 36.85 | 102.17 |
| 99 | 7.13 | 7.69 | 0.14 | 0.29 | 45.33 | 101.02 |
| 100 | 7.19 | 6.68 | 0.13 | 0.29 | 50.80 | 99.02 |
| 101 | 7.32 | 5.47 | 0.08 | 0.29 | 50.53 | 95.58 |
| 102 | 7.42 | 5.16 | 0.02 | 0.29 | 46.05 | 89.63 |
| 103 | 7.49 | 4.86 | 0.01 | 0.29 | 36.85 | 87.36 |
| 104 | 7.57 | 4.76 | -0.01 | 0.29 | N/A | 87.36 |
| 105 | 7.66 | 4.55 | 0.00 | 0.29 | N/A | 87.36 |
| 106 | 7.76 | 4.35 | 0.01 | 0.29 | 39.30 | 87.36 |
| 107 | 7.77 | 4.40 | 0.01 | 0.29 | 41.66 | 87.36 |
| 108 | 7.78 | 4.40 | 0.01 | 0.29 | 42.16 | 87.36 |
| 109 | 7.82 | 4.45 | 0.01 | 0.29 | 43.69 | 87.36 |
| 110 | 7.87 | 4.45 | 0.02 | 0.29 | 46.05 | 87.36 |
| 111 | 7.92 | 4.45 | 0.03 | 0.29 | 48.69 | 87.36 |
| 112 | 7.97 | 4.45 | 0.03 | 0.29 | 50.96 | 88.91 |
| 113 | 8.01 | 4.55 | 0.04 | 0.29 | 52.87 | 90.83 |
| 114 | 8.06 | 4.76 | 0.05 | 0.29 | 53.56 | 92.24 |
| 115 | 8.11 | 4.96 | 0.06 | 0.29 | 53.89 | 93.35 |
| 116 | 8.20 | 5.06 | 0.06 | 0.29 | 54.02 | 94.10 |
| 117 | 8.26 | 5.16 | 0.07 | 0.29 | 54.67 | 94.95 |
| 118 | 8.35 | 5.26 | 0.08 | 0.29 | 55.25 | 95.57 |
| 119 | 8.40 | 5.26 | 0.08 | 0.38 | 55.42 | 95.96 |
| 120 | 8.49 | 5.36 | 0.08 | 0.38 | 55.15 | 96.13 |
| 121 | 8.54 | 5.47 | 0.08 | 0.38 | 54.56 | 96.42 |
| 122 | 8.64 | 5.67 | 0.09 | 0.38 | 53.58 | 96.77 |
| 123 | 8.69 | 5.97 | 0.09 | 0.38 | 52.70 | 97.12 |
| 124 | 8.79 | 6.07 | 0.09 | 0.38 | 53.07 | 98.37 |
| 125 | 8.84 | 6.48 | 0.14 | 0.38 | 53.64 | 99.77 |
| 126 | 8.93 | 6.88 | 0.15 | 0.38 | 53.23 | 100.93 |
| 127 | 9.03 | 7.29 | 0.15 | 0.38 | 53.10 | 101.61 |
| 128 | 9.08 | 7.19 | 0.17 | 0.38 | 53.34 | 101.99 |
| 129 | 9.11 | 7.14 | 0.18 | 0.38 | 54.44 | 102.35 |
| 130 | 9.12 | 7.14 | 0.18 | 0.38 | 54.87 | 102.44 |
| 131 | 9.17 | 7.08 | 0.18 | 0.38 | 55.46 | 102.54 |
| 132 | 9.22 | 6.98 | 0.19 | 0.38 | 55.68 | 102.79 |
| 133 | 9.31 | 7.29 | 0.19 | 0.38 | 57.60 | 103.02 |
| 134 | 9.36 | 6.48 | 0.20 | 0.38 | 56.84 | 103.40 |
| 135 | 9.40 | 7.69 | 0.21 | 0.38 | 55.49 | 103.68 |
| 136 | 9.46 | 8.20 | 0.21 | 0.38 | 52.20 | 104.01 |
| 137 | 9.51 | 8.50 | 0.21 | 0.38 | 50.78 | 104.20 |
| 138 | 9.55 | 8.70 | 0.22 | 0.48 | 49.80 | 104.47 |
| 139 | 9.61 | 9.11 | 0.23 | 0.48 | 49.60 | 104.86 |
| 140 | 9.69 | 9.11 | 0.24 | 0.48 | 49.93 | 105.32 |
| 141 | 9.74 | 9.11 | 0.26 | 0.38 | 50.53 | 105.75 |
| 142 | 9.81 | 9.31 | 0.27 | 0.48 | 50.47 | 106.17 |
| 143 | 9.89 | 9.72 | 0.28 | 0.38 | 49.47 | 106.49 |
| 144 | 9.94 | 10.22 | 0.29 | 0.48 | 48.57 | 106.69 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 145 | 10.03 | 10.22 | 0.28 | 0.48 | 47.95 | 106.73 |
| 146 | 10.08 | 10.22 | 0.28 | 0.48 | 46.27 | 105.91 |
| 147 | 10.18 | 10.22 | 0.19 | 0.48 | 43.86 | 104.66 |
| 148 | 10.23 | 10.22 | 0.16 | 0.48 | 42.16 | 103.72 |
| 149 | 10.33 | 10.22 | 0.21 | 0.48 | 42.78 | 104.06 |
| 150 | 10.40 | 10.22 | 0.22 | 0.48 | 44.53 | 104.99 |
| 151 | 10.47 | 10.22 | 0.24 | 0.48 | 46.24 | 105.54 |
| 152 | 10.51 | 9.77 | 0.26 | 0.48 | 47.48 | 106.12 |
| 153 | 10.56 | 10.17 | 0.28 | 0.48 | 48.53 | 106.55 |
| 154 | 10.61 | 10.12 | 0.29 | 0.48 | 48.96 | 107.12 |
| 155 | 10.67 | 10.32 | 0.32 | 0.48 | 50.59 | 107.76 |
| 156 | 10.75 | 10.02 | 0.37 | 0.48 | 52.01 | 108.32 |
| 157 | 10.80 | 10.02 | 0.37 | 0.48 | 53.26 | 108.59 |
| 158 | 10.85 | 9.92 | 0.37 | 0.48 | 53.79 | 108.61 |
| 159 | 10.90 | 9.72 | 0.37 | 0.57 | 54.58 | 108.60 |
| 160 | 11.00 | 9.51 | 0.38 | 0.57 | 55.86 | 108.56 |
| 161 | 11.05 | 9.11 | 0.37 | 0.57 | 57.54 | 108.36 |
| 162 | 11.14 | 8.50 | 0.36 | 0.57 | 59.49 | 108.14 |
| 163 | 11.21 | 8.20 | 0.36 | 0.57 | 61.41 | 108.08 |
| 164 | 11.29 | 8.10 | 0.38 | 0.57 | 61.90 | 108.18 |
| 165 | 11.38 | 8.40 | 0.37 | 0.57 | 61.40 | 108.38 |
| 166 | 11.46 | 8.70 | 0.39 | 0.57 | 60.04 | 108.48 |
| 167 | 11.52 | 8.91 | 0.38 | 0.57 | 59.20 | 108.60 |
| 168 | 11.60 | 9.01 | 0.38 | 0.57 | 58.74 | 108.64 |
| 169 | 11.67 | 9.01 | 0.39 | 0.57 | 58.51 | 108.69 |
| 170 | 11.72 | 9.11 | 0.39 | 0.57 | 58.33 | 108.76 |
| 171 | 11.81 | 9.21 | 0.39 | 0.57 | 57.50 | 108.86 |
| 172 | 11.86 | 9.62 | 0.39 | 0.57 | 57.42 | 108.90 |
| 173 | 11.96 | 9.21 | 0.39 | 0.57 | 57.28 | 108.93 |
| 174 | 12.01 | 9.41 | 0.40 | 0.57 | 57.36 | 108.99 |
| 175 | 12.10 | 9.72 | 0.40 | 0.57 | 56.33 | 108.48 |
| 176 | 12.16 | 9.92 | 0.30 | 0.57 | 52.86 | 107.67 |
| 177 | 12.24 | 10.53 | 0.27 | 0.67 | 50.46 | 107.26 |
| 178 | 12.32 | 10.93 | 0.34 | 0.67 | 50.49 | 108.00 |
| 179 | 12.39 | 11.13 | 0.39 | 0.67 | 51.82 | 109.13 |
| 180 | 12.48 | 11.44 | 0.42 | 0.67 | 55.21 | 109.56 |
| 181 | 12.50 | 9.31 | 0.43 | 0.67 | 56.54 | 109.82 |
| 182 | 12.54 | 9.92 | 0.45 | 0.67 | 56.14 | 110.10 |
| 183 | 12.64 | 12.95 | 0.45 | 0.67 | 51.14 | 110.63 |
| 184 | 12.68 | 14.17 | 0.46 | 0.67 | 46.74 | 111.06 |
| 185 | 12.77 | 14.98 | 0.47 | 0.67 | 45.02 | 111.08 |
| 186 | 12.82 | 14.98 | 0.44 | 0.67 | 44.58 | 110.87 |
| 187 | 12.89 | 14.27 | 0.42 | 0.67 | 45.32 | 110.45 |
| 188 | 12.97 | 13.36 | 0.41 | 0.67 | 47.27 | 110.13 |
| 189 | 13.03 | 12.45 | 0.41 | 0.67 | 49.63 | 109.86 |
| 190 | 13.12 | 11.64 | 0.40 | 0.67 | 52.08 | 109.64 |
| 191 | 13.16 | 11.03 | 0.40 | 0.67 | 53.60 | 109.40 |
| 192 | 13.26 | 10.93 | 0.39 | 0.67 | 54.00 | 108.95 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 193 | 13.34 | 10.73 | 0.34 | 0.67 | 53.03 | 108.33 |
| 194 | 13.41 | 10.83 | 0.31 | 0.67 | 51.87 | 107.54 |
| 195 | 13.50 | 10.63 | 0.28 | 0.67 | 51.53 | 107.03 |
| 196 | 13.60 | 10.32 | 0.28 | 0.67 | 52.24 | 106.75 |
| 197 | 13.65 | 10.02 | 0.28 | 0.67 | 53.22 | 106.76 |
| 198 | 13.75 | 10.02 | 0.29 | 0.67 | 54.12 | 106.90 |
| 199 | 13.80 | 10.02 | 0.30 | 0.67 | 53.54 | 106.72 |
| 200 | 13.89 | 10.22 | 0.26 | 0.67 | 53.46 | 106.90 |
| 201 | 13.94 | 10.42 | 0.31 | 0.76 | 53.08 | 107.50 |
| 202 | 14.03 | 11.23 | 0.37 | 0.76 | 54.97 | 108.63 |
| 203 | 14.11 | 10.73 | 0.41 | 0.76 | 55.24 | 109.48 |
| 204 | 14.13 | 11.69 | 0.42 | 0.76 | 55.28 | 110.03 |
| 205 | 14.18 | 12.15 | 0.45 | 0.76 | 53.47 | 110.47 |
| 206 | 14.22 | 12.95 | 0.46 | 0.76 | 52.62 | 110.95 |
| 207 | 14.28 | 13.36 | 0.49 | 0.76 | 51.87 | 111.50 |
| 208 | 14.37 | 13.97 | 0.53 | 0.76 | 51.36 | 112.04 |
| 209 | 14.44 | 14.68 | 0.56 | 0.76 | 50.25 | 112.56 |
| 210 | 14.51 | 15.69 | 0.58 | 0.76 | 48.93 | 112.99 |
| 211 | 14.60 | 16.50 | 0.60 | 0.76 | 48.02 | 113.34 |
| 212 | 14.65 | 16.70 | 0.62 | 0.76 | 47.94 | 113.59 |
| 213 | 14.75 | 16.50 | 0.63 | 0.76 | 48.44 | 113.74 |
| 214 | 14.85 | 16.45 | 0.64 | 0.76 | 48.93 | 113.80 |
| 215 | 14.91 | 16.45 | 0.63 | 0.76 | 49.08 | 113.80 |
| 216 | 14.99 | 16.40 | 0.63 | 0.76 | 47.80 | 113.81 |
| 217 | 15.09 | 18.12 | 0.62 | 0.76 | 45.25 | 113.98 |
| 218 | 15.18 | 20.34 | 0.63 | 0.76 | 41.64 | 114.15 |
| 219 | 15.25 | 22.37 | 0.61 | 0.76 | 38.13 | 114.10 |
| 220 | 15.33 | 24.09 | 0.55 | 0.76 | 34.47 | 113.87 |
| 221 | 15.43 | 27.02 | 0.52 | 0.76 | 30.57 | 113.72 |
| 222 | 15.51 | 31.38 | 0.52 | 0.76 | 26.98 | 113.86 |
| 223 | 15.59 | 35.53 | 0.52 | 0.76 | 24.54 | 114.07 |
| 224 | 15.67 | 36.94 | 0.52 | 0.76 | 23.56 | 114.17 |
| 225 | 15.76 | 36.03 | 0.51 | 0.86 | 24.48 | 114.23 |
| 226 | 15.86 | 32.39 | 0.54 | 0.76 | 26.98 | 114.13 |
| 227 | 15.95 | 27.63 | 0.54 | 0.76 | 31.02 | 113.82 |
| 228 | 16.05 | 22.87 | 0.53 | 0.76 | 35.88 | 113.11 |
| 229 | 16.14 | 18.72 | 0.48 | 0.76 | 40.89 | 112.24 |
| 230 | 16.20 | 16.30 | 0.45 | 0.76 | 44.59 | 111.36 |
| 231 | 16.28 | 15.49 | 0.42 | 0.76 | 47.26 | 110.71 |
| 232 | 16.34 | 14.17 | 0.41 | 0.76 | 49.02 | 109.97 |
| 233 | 16.44 | 12.95 | 0.36 | 0.76 | 51.62 | 109.16 |
| 234 | 16.50 | 11.64 | 0.33 | 0.86 | 54.21 | 108.05 |
| 235 | 16.58 | 10.22 | 0.29 | 0.76 | 56.10 | 106.16 |
| 236 | 16.73 | 8.60 | 0.17 | 0.86 | 57.07 | 103.07 |
| 237 | 16.82 | 7.39 | 0.09 | 0.76 | 55.90 | 98.94 |
| 238 | 16.92 | 6.78 | 0.07 | 0.86 | 56.73 | 97.37 |
| 239 | 17.01 | 6.98 | 0.12 | 0.86 | 64.41 | 99.23 |
| 240 | 17.11 | 5.87 | 0.17 | 0.86 | 72.33 | 101.23 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 241 | 17.12 | 5.72 | 0.19 | 0.86 | 79.64 | 102.14 |
| 242 | 17.14 | 5.57 | 0.19 | 0.86 | 75.40 | 102.95 |
| 243 | 17.19 | 7.69 | 0.22 | 0.86 | 70.99 | 103.97 |
| 244 | 17.28 | 8.10 | 0.25 | 0.86 | 67.48 | 104.99 |
| 245 | 17.33 | 8.00 | 0.26 | 0.86 | 68.61 | 105.59 |
| 246 | 17.43 | 7.89 | 0.28 | 0.86 | 70.20 | 105.75 |
| 247 | 17.47 | 7.69 | 0.27 | 0.86 | 70.55 | 105.46 |
| 248 | 17.57 | 7.59 | 0.24 | 0.86 | 70.29 | 104.78 |
| 249 | 17.65 | 7.39 | 0.21 | 0.86 | 69.39 | 104.05 |
| 250 | 17.72 | 7.39 | 0.21 | 0.86 | 69.90 | 104.00 |
| 251 | 17.81 | 7.39 | 0.23 | 0.86 | 69.98 | 104.48 |
| 252 | 17.86 | 7.89 | 0.25 | 0.86 | 70.40 | 105.52 |
| 253 | 17.95 | 8.30 | 0.30 | 0.86 | 70.27 | 106.61 |
| 254 | 18.05 | 8.70 | 0.35 | 0.86 | 69.77 | 107.59 |
| 255 | 18.10 | 9.31 | 0.36 | 0.86 | 69.28 | 108.43 |
| 256 | 18.20 | 9.62 | 0.41 | 0.86 | 68.75 | 109.17 |
| 257 | 18.30 | 10.02 | 0.44 | 0.86 | 69.06 | 109.74 |
| 258 | 18.39 | 10.02 | 0.45 | 0.86 | 68.69 | 110.03 |
| 259 | 18.48 | 10.32 | 0.45 | 0.86 | 68.26 | 110.09 |
| 260 | 18.58 | 10.42 | 0.45 | 0.86 | 68.26 | 110.10 |
| 261 | 18.66 | 10.12 | 0.45 | 0.86 | 68.67 | 110.00 |
| 262 | 18.74 | 10.02 | 0.43 | 0.86 | 68.65 | 109.66 |
| 263 | 18.87 | 10.02 | 0.39 | 0.86 | 65.89 | 108.15 |
| 264 | 18.97 | 9.62 | 0.22 | 0.86 | 63.51 | 106.58 |
| 265 | 19.06 | 9.31 | 0.24 | 0.96 | 61.57 | 105.45 |
| 266 | 19.16 | 9.72 | 0.27 | 0.86 | 62.59 | 106.45 |
| 267 | 19.25 | 10.42 | 0.32 | 0.96 | 62.93 | 107.21 |
| 268 | 19.27 | 10.22 | 0.32 | 0.86 | 63.88 | 107.82 |
| 269 | 19.30 | 10.02 | 0.35 | 0.96 | 64.63 | 108.39 |
| 270 | 19.34 | 10.83 | 0.39 | 0.96 | 65.30 | 109.05 |
| 271 | 19.39 | 10.83 | 0.41 | 0.96 | 65.04 | 109.46 |
| 272 | 19.49 | 10.83 | 0.41 | 0.96 | 65.33 | 109.38 |
| 273 | 19.55 | 10.63 | 0.38 | 0.96 | 65.79 | 108.98 |
| 274 | 19.63 | 10.02 | 0.36 | 0.96 | 66.38 | 108.45 |
| 275 | 19.68 | 9.82 | 0.34 | 0.96 | 66.57 | 107.82 |
| 276 | 19.74 | 9.72 | 0.30 | 0.96 | 65.75 | 107.23 |
| 277 | 19.83 | 9.72 | 0.28 | 0.96 | 65.45 | 106.97 |
| 278 | 19.87 | 9.72 | 0.31 | 0.96 | 65.22 | 106.85 |
| 279 | 19.94 | 9.72 | 0.29 | 0.96 | 66.15 | 107.18 |
| 280 | 20.02 | 9.72 | 0.33 | 0.96 | 67.03 | 107.64 |
| 281 | 20.07 | 9.92 | 0.36 | 0.96 | 67.92 | 108.78 |
| 282 | 20.17 | 10.83 | 0.44 | 0.96 | 64.62 | 109.94 |
| 283 | 20.21 | 13.46 | 0.47 | 0.96 | 56.54 | 111.19 |
| 284 | 20.28 | 18.22 | 0.50 | 0.96 | 46.28 | 112.30 |
| 285 | 20.36 | 24.49 | 0.52 | 1.05 | 37.36 | 113.43 |
| 286 | 20.41 | 31.88 | 0.56 | 1.05 | 30.98 | 114.57 |
| 287 | 20.48 | 38.76 | 0.62 | 1.05 | 26.57 | 115.62 |
| 288 | 20.55 | 45.24 | 0.66 | 1.05 | 23.46 | 116.43 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 289 | 20.60 | 50.91 | 0.67 | 1.05 | 21.46 | 116.95 |
| 290 | 20.70 | 53.44 | 0.69 | 1.05 | 20.55 | 117.24 |
| 291 | 20.74 | 53.24 | 0.71 | 1.05 | 20.71 | 117.40 |
| 292 | 20.79 | 51.32 | 0.72 | 1.05 | 21.66 | 117.54 |
| 293 | 20.89 | 48.89 | 0.76 | 1.05 | 23.50 | 117.89 |
| 294 | 20.96 | 45.85 | 0.85 | 0.96 | 23.80 | 117.32 |
| 295 | 21.04 | 45.80 | 0.57 | 0.96 | 24.10 | 117.07 |
| 296 | 21.13 | 45.80 | 0.70 | 0.96 | 23.70 | 116.74 |
| 297 | 21.22 | 45.75 | 0.76 | 0.96 | 23.00 | 117.62 |
| 298 | 21.29 | 56.07 | 0.78 | 1.05 | 21.86 | 118.10 |
| 299 | 21.35 | 56.27 | 0.79 | 1.05 | 18.50 | 118.64 |
| 300 | 21.37 | 73.99 | 0.80 | 1.05 | 15.90 | 119.09 |
| 301 | 21.42 | 83.80 | 0.82 | 1.05 | 13.13 | 119.55 |
| 302 | 21.47 | 93.32 | 0.82 | 1.05 | 11.52 | 119.85 |
| 303 | 21.48 | 101.01 | 0.82 | 1.05 | 10.27 | 120.06 |
| 304 | 21.52 | 107.59 | 0.82 | 1.05 | 9.34 | 120.20 |
| 305 | 21.57 | 113.46 | 0.81 | 1.05 | 8.57 | 120.29 |
| 306 | 21.62 | 118.62 | 0.80 | 1.05 | 7.91 | 120.35 |
| 307 | 21.66 | 124.29 | 0.80 | 1.05 | 7.35 | 120.43 |
| 308 | 21.71 | 129.05 | 0.81 | 1.15 | 6.92 | 120.56 |
| 309 | 21.76 | 132.99 | 0.82 | 1.15 | 6.65 | 120.75 |
| 310 | 21.81 | 135.83 | 0.84 | 1.15 | 6.55 | 120.99 |
| 311 | 21.85 | 137.14 | 0.87 | 1.15 | 6.57 | 121.25 |
| 312 | 21.91 | 137.95 | 0.90 | 1.15 | 6.66 | 121.49 |
| 313 | 21.95 | 138.26 | 0.92 | 1.15 | 6.78 | 121.69 |
| 314 | 22.00 | 138.06 | 0.94 | 1.15 | 6.89 | 121.84 |
| 315 | 22.05 | 138.36 | 0.96 | 1.15 | 6.99 | 121.96 |
| 316 | 22.10 | 138.06 | 0.97 | 1.15 | 7.07 | 122.06 |
| 317 | 22.15 | 138.26 | 0.98 | 1.15 | 7.14 | 122.15 |
| 318 | 22.19 | 138.56 | 0.99 | 1.15 | 7.18 | 122.24 |
| 319 | 22.24 | 139.17 | 1.00 | 1.15 | 7.38 | 122.59 |
| 320 | 22.29 | 139.98 | 1.12 | 1.15 | 7.48 | 122.79 |
| 321 | 22.34 | 140.38 | 1.07 | 1.15 | 7.53 | 122.89 |
| 322 | 22.39 | 140.18 | 1.04 | 1.15 | 7.42 | 122.71 |
| 323 | 22.43 | 139.57 | 1.04 | 1.15 | 7.44 | 122.63 |
| 324 | 22.48 | 138.46 | 1.05 | 1.15 | 7.57 | 122.64 |
| 325 | 22.55 | 136.94 | 1.06 | 1.15 | 7.77 | 122.66 |
| 326 | 22.62 | 134.92 | 1.06 | 1.15 | 8.48 | 122.57 |
| 327 | 22.63 | 118.32 | 1.06 | 1.24 | 8.67 | 122.48 |
| 328 | 22.72 | 130.57 | 1.04 | 1.24 | 8.87 | 122.34 |
| 329 | 22.77 | 127.73 | 1.02 | 1.24 | 8.53 | 122.30 |
| 330 | 22.83 | 125.91 | 1.02 | 1.24 | 8.81 | 122.33 |
| 331 | 22.91 | 124.70 | 1.06 | 1.24 | 9.13 | 122.40 |
| 332 | 22.96 | 121.96 | 1.07 | 1.24 | 9.51 | 122.45 |
| 333 | 23.02 | 118.52 | 1.06 | 1.24 | 9.95 | 122.36 |
| 334 | 23.10 | 114.07 | 1.06 | 1.24 | 10.51 | 122.24 |
| 335 | 23.16 | 108.91 | 1.05 | 1.24 | 11.23 | 122.08 |
| 336 | 23.20 | 102.23 | 1.04 | 1.24 | 12.12 | 121.86 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 337 | 23.26 | 95.44 | 1.03 | 1.24 | 13.14 | 121.54 |
| 338 | 23.35 | 88.66 | 0.99 | 1.24 | 14.37 | 121.28 |
| 339 | 23.39 | 81.88 | 1.01 | 1.24 | 15.74 | 120.92 |
| 340 | 23.48 | 74.39 | 0.96 | 1.24 | 17.51 | 120.69 |
| 341 | 23.54 | 67.71 | 0.98 | 1.24 | 19.01 | 120.18 |
| 342 | 23.63 | 62.85 | 0.89 | 1.24 | 19.95 | 119.45 |
| 343 | 23.69 | 59.72 | 0.76 | 1.24 | 19.23 | 117.77 |
| 344 | 23.78 | 57.59 | 0.48 | 1.24 | 18.61 | 116.63 |
| 345 | 23.87 | 57.74 | 0.60 | 1.24 | 18.21 | 116.01 |
| 346 | 23.88 | 57.74 | 0.61 | 1.24 | 19.03 | 116.77 |
| 347 | 23.93 | 57.89 | 0.67 | 1.34 | 19.95 | 117.38 |
| 348 | 24.02 | 56.58 | 0.77 | 1.34 | 20.80 | 117.95 |
| 349 | 24.04 | 57.13 | 0.78 | 1.34 | 21.46 | 118.37 |
| 350 | 24.05 | 57.13 | 0.80 | 1.34 | 21.78 | 118.73 |
| 351 | 24.15 | 57.69 | 0.89 | 1.34 | 21.95 | 119.14 |
| 352 | 24.20 | 59.92 | 0.91 | 1.34 | 21.72 | 119.56 |
| 353 | 24.30 | 62.65 | 0.93 | 1.34 | 20.63 | 119.52 |
| 354 | 24.40 | 65.28 | 0.83 | 1.34 | 19.19 | 119.11 |
| 355 | 24.46 | 67.21 | 0.74 | 1.34 | 17.84 | 118.42 |
| 356 | 24.54 | 67.21 | 0.69 | 1.34 | 17.34 | 117.92 |
| 357 | 24.64 | 64.78 | 0.69 | 1.34 | 18.05 | 117.78 |
| 358 | 24.73 | 60.22 | 0.72 | 1.34 | 19.84 | 117.90 |
| 359 | 24.78 | 54.76 | 0.77 | 1.34 | 22.46 | 118.05 |
| 360 | 24.88 | 48.89 | 0.80 | 1.34 | 25.68 | 117.95 |
| 361 | 24.94 | 42.00 | 0.78 | 1.24 | 29.51 | 117.49 |
| 362 | 25.02 | 34.82 | 0.73 | 1.24 | 34.04 | 116.54 |
| 363 | 25.12 | 28.14 | 0.65 | 1.24 | 39.88 | 115.47 |
| 364 | 25.17 | 22.27 | 0.62 | 1.24 | 46.77 | 114.38 |
| 365 | 25.27 | 18.12 | 0.59 | 1.24 | 54.06 | 113.10 |
| 366 | 25.36 | 14.78 | 0.46 | 1.24 | 61.30 | 111.68 |
| 367 | 25.43 | 12.45 | 0.42 | 1.24 | 67.46 | 110.12 |
| 368 | 25.50 | 10.53 | 0.38 | 1.24 | 73.11 | 108.95 |
| 369 | 25.60 | 9.62 | 0.33 | 1.24 | 77.33 | 107.97 |
| 370 | 25.64 | 9.11 | 0.32 | 1.24 | 78.94 | 107.28 |
| 371 | 25.67 | 9.01 | 0.30 | 1.15 | 79.14 | 106.81 |
| 372 | 25.71 | 9.01 | 0.28 | 1.15 | 78.50 | 105.99 |
| 373 | 25.79 | 8.50 | 0.23 | 1.15 | 78.06 | 104.81 |
| 374 | 25.93 | 8.00 | 0.19 | 1.15 | 77.81 | 103.60 |
| 375 | 26.03 | 8.00 | 0.18 | 1.15 | 77.15 | 102.74 |
| 376 | 26.13 | 8.00 | 0.16 | 1.15 | 76.38 | 102.36 |
| 377 | 26.24 | 8.00 | 0.16 | 1.15 | 75.73 | 102.24 |
| 378 | 26.37 | 8.20 | 0.17 | 1.15 | 75.53 | 102.41 |
| 379 | 26.47 | 8.30 | 0.17 | 1.15 | 75.71 | 102.64 |
| 380 | 26.60 | 8.20 | 0.18 | 1.15 | 74.72 | 102.14 |
| 381 | 26.71 | 8.20 | 0.14 | 1.15 | 72.50 | 101.53 |
| 382 | 26.85 | 8.70 | 0.13 | 1.15 | 69.69 | 101.34 |
| 383 | 26.95 | 9.31 | 0.16 | 1.15 | 71.29 | 102.63 |
| 384 | 27.04 | 8.81 | 0.22 | 1.15 | 71.21 | 104.34 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 385 | 27.09 | 10.63 | 0.25 | 1.05 | 71.61 | 105.86 |
| 386 | 27.19 | 10.93 | 0.29 | 1.05 | 69.63 | 106.85 |
| 387 | 27.23 | 11.23 | 0.30 | 1.05 | 70.05 | 107.52 |
| 388 | 27.33 | 11.34 | 0.32 | 1.05 | 70.38 | 108.10 |
| 389 | 27.40 | 11.64 | 0.36 | 1.05 | 70.26 | 108.70 |
| 390 | 27.47 | 12.25 | 0.38 | 1.05 | 69.48 | 109.39 |
| 391 | 27.57 | 12.95 | 0.41 | 1.05 | 68.12 | 110.02 |
| 392 | 27.66 | 13.66 | 0.44 | 1.05 | 66.86 | 110.95 |
| 393 | 27.77 | 14.88 | 0.52 | 1.05 | 65.56 | 112.10 |
| 394 | 27.86 | 16.30 | 0.60 | 1.05 | 64.27 | 113.38 |
| 395 | 27.96 | 17.61 | 0.69 | 1.05 | 63.40 | 114.40 |
| 396 | 28.06 | 18.22 | 0.74 | 1.05 | 64.03 | 115.00 |
| 397 | 28.15 | 17.31 | 0.77 | 1.05 | 65.56 | 115.03 |
| 398 | 28.25 | 16.30 | 0.72 | 1.05 | 64.37 | 114.22 |
| 399 | 28.34 | 17.46 | 0.52 | 1.05 | 63.64 | 113.20 |
| 400 | 28.44 | 15.69 | 0.53 | 1.05 | 61.14 | 112.70 |
| 401 | 28.54 | 17.61 | 0.59 | 1.05 | 64.86 | 113.09 |
| 402 | 28.62 | 14.98 | 0.63 | 1.05 | 62.81 | 113.97 |
| 403 | 28.71 | 19.74 | 0.70 | 1.05 | 62.14 | 114.69 |
| 404 | 28.77 | 20.24 | 0.75 | 1.05 | 59.04 | 115.50 |
| 405 | 28.86 | 20.75 | 0.80 | 1.05 | 59.06 | 115.95 |
| 406 | 28.91 | 21.15 | 0.82 | 1.05 | 58.48 | 116.29 |
| 407 | 28.97 | 22.06 | 0.84 | 1.05 | 57.87 | 116.68 |
| 408 | 29.04 | 22.87 | 0.91 | 1.05 | 57.17 | 117.16 |
| 409 | 29.10 | 23.78 | 0.96 | 1.05 | 56.38 | 117.71 |
| 410 | 29.15 | 25.20 | 1.01 | 1.05 | 55.66 | 118.36 |
| 411 | 29.25 | 26.42 | 1.13 | 1.05 | 54.03 | 119.02 |
| 412 | 29.34 | 27.53 | 1.19 | 1.05 | 53.66 | 119.56 |
| 413 | 29.38 | 28.14 | 1.22 | 1.05 | 53.77 | 119.85 |
| 414 | 29.48 | 27.53 | 1.26 | 1.05 | 55.21 | 119.97 |
| 415 | 29.55 | 27.43 | 1.26 | 1.05 | 55.61 | 119.94 |
| 416 | 29.63 | 27.43 | 1.21 | 1.05 | 53.71 | 119.51 |
| 417 | 29.72 | 27.33 | 1.04 | 1.05 | 46.70 | 117.24 |
| 418 | 29.82 | 30.47 | 0.29 | 1.15 | 36.62 | 114.29 |
| 419 | 29.88 | 36.84 | 0.31 | 1.15 | 26.07 | 110.63 |
| 420 | 29.96 | 43.12 | 0.35 | 1.15 | 21.97 | 111.98 |
| 421 | 30.06 | 55.67 | 0.40 | 1.15 | 20.66 | 113.06 |
| 422 | 30.13 | 50.91 | 0.44 | 1.05 | 19.28 | 113.85 |
| 423 | 30.18 | 57.39 | 0.44 | 1.05 | 19.21 | 114.32 |
| 424 | 30.28 | 59.72 | 0.48 | 1.05 | 18.92 | 115.08 |
| 425 | 30.37 | 59.01 | 0.56 | 1.05 | 19.74 | 116.07 |
| 426 | 30.47 | 59.82 | 0.65 | 1.05 | 20.55 | 117.07 |
| 427 | 30.57 | 62.65 | 0.72 | 1.05 | 20.45 | 117.89 |
| 428 | 30.66 | 67.31 | 0.76 | 1.05 | 19.78 | 118.59 |
| 429 | 30.74 | 71.76 | 0.82 | 1.05 | 19.08 | 119.20 |
| 430 | 30.82 | 74.90 | 0.87 | 1.05 | 18.72 | 119.77 |
| 431 | 30.90 | 76.82 | 0.92 | 1.15 | 18.90 | 120.37 |
| 432 | 31.01 | 77.12 | 1.02 | 1.15 | 19.54 | 121.00 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 433 | 31.10 | 76.72 | 1.12 | 1.15 | 20.53 | 121.75 |
| 434 | 31.19 | 77.18 | 1.25 | 1.15 | 21.62 | 122.52 |
| 435 | 31.28 | 77.23 | 1.39 | 1.15 | 22.44 | 123.19 |
| 436 | 31.35 | 78.24 | 1.47 | 1.15 | 22.96 | 123.75 |
| 437 | 31.43 | 80.06 | 1.56 | 1.15 | 23.03 | 124.24 |
| 438 | 31.53 | 83.20 | 1.66 | 1.15 | 22.94 | 124.75 |
| 439 | 31.60 | 86.03 | 1.75 | 1.15 | 21.03 | 124.07 |
| 440 | 31.67 | 88.46 | 1.07 | 1.15 | 19.28 | 123.27 |
| 441 | 31.77 | 89.68 | 1.16 | 1.15 | 17.72 | 122.34 |
| 442 | 31.84 | 90.18 | 1.26 | 1.15 | 18.27 | 122.84 |
| 443 | 31.91 | 89.68 | 1.32 | 1.15 | 19.80 | 123.18 |
| 444 | 31.98 | 78.64 | 1.39 | 1.15 | 22.19 | 123.23 |
| 445 | 31.98 | 68.93 | 1.40 | 1.15 | 23.12 | 123.39 |
| 446 | 32.04 | 84.01 | 1.44 | 1.24 | 23.03 | 123.69 |
| 447 | 32.12 | 83.20 | 1.54 | 1.24 | 22.36 | 124.14 |
| 448 | 32.16 | 80.77 | 1.60 | 1.24 | 23.73 | 124.42 |
| 449 | 32.27 | 76.11 | 1.67 | 1.24 | 25.51 | 124.47 |
| 450 | 32.33 | 70.04 | 1.66 | 1.24 | 27.40 | 124.34 |
| 451 | 32.41 | 66.09 | 1.63 | 1.24 | 28.95 | 124.00 |
| 452 | 32.50 | 62.75 | 1.55 | 1.24 | 30.35 | 123.44 |
| 453 | 32.58 | 56.48 | 1.41 | 1.24 | 31.97 | 122.68 |
| 454 | 32.66 | 50.71 | 1.29 | 1.24 | 34.45 | 121.67 |
| 455 | 32.74 | 43.42 | 1.16 | 1.24 | 37.91 | 120.54 |
| 456 | 32.84 | 35.73 | 1.02 | 1.24 | 42.91 | 119.34 |
| 457 | 32.90 | 29.15 | 0.95 | 1.24 | 48.72 | 118.12 |
| 458 | 32.98 | 24.70 | 0.85 | 1.24 | 56.09 | 116.92 |
| 459 | 33.08 | 20.85 | 0.75 | 1.24 | 62.41 | 115.68 |
| 460 | 33.14 | 16.70 | 0.69 | 1.24 | 70.22 | 114.44 |
| 461 | 33.22 | 13.56 | 0.63 | 1.24 | 78.27 | 113.16 |
| 462 | 33.32 | 12.04 | 0.53 | 1.24 | 84.25 | 111.85 |
| 463 | 33.37 | 10.93 | 0.46 | 1.24 | 85.46 | 110.42 |
| 464 | 33.47 | 10.83 | 0.38 | 1.24 | 84.74 | 109.62 |
| 465 | 33.56 | 11.34 | 0.39 | 1.24 | 80.65 | 109.42 |
| 466 | 33.63 | 12.75 | 0.41 | 1.24 | 77.37 | 109.72 |
| 467 | 33.71 | 13.16 | 0.40 | 1.24 | 75.48 | 109.42 |
| 468 | 33.81 | 12.04 | 0.34 | 1.24 | 74.83 | 107.78 |
| 469 | 33.90 | 10.73 | 0.19 | 1.24 | 75.10 | 105.75 |
| 470 | 33.95 | 10.32 | 0.19 | 1.24 | 75.13 | 103.88 |
| 471 | 34.04 | 9.82 | 0.19 | 1.24 | 76.22 | 103.67 |
| 472 | 34.14 | 10.02 | 0.18 | 1.34 | 77.27 | 103.52 |
| 473 | 34.17 | 9.72 | 0.19 | 1.24 | 77.76 | 103.53 |
| 474 | 34.20 | 9.62 | 0.19 | 1.24 | 76.51 | 103.73 |
| 475 | 34.26 | 10.83 | 0.19 | 1.24 | 75.12 | 103.91 |
| 476 | 34.35 | 10.63 | 0.19 | 1.24 | 73.88 | 103.93 |
| 477 | 34.43 | 10.32 | 0.19 | 1.24 | 74.71 | 103.73 |
| 478 | 34.49 | 10.22 | 0.18 | 1.24 | 74.86 | 103.40 |
| 479 | 34.59 | 10.22 | 0.17 | 1.24 | 74.51 | 102.92 |
| 480 | 34.69 | 10.02 | 0.15 | 1.24 | 74.15 | 102.43 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 481 | 34.73 | 9.92 | 0.15 | 1.24 | 74.31 | 102.00 |
| 482 | 34.83 | 9.72 | 0.15 | 1.24 | 74.57 | 101.78 |
| 483 | 34.90 | 9.72 | 0.14 | 1.24 | 75.16 | 101.82 |
| 484 | 34.98 | 9.72 | 0.15 | 1.24 | 75.52 | 102.24 |
| 485 | 35.07 | 10.02 | 0.17 | 1.24 | 76.19 | 103.35 |
| 486 | 35.16 | 10.63 | 0.21 | 1.24 | 78.83 | 105.56 |
| 487 | 35.26 | 11.03 | 0.33 | 1.24 | 83.16 | 108.85 |
| 488 | 35.33 | 12.15 | 0.55 | 1.24 | 81.79 | 112.16 |
| 489 | 35.40 | 16.50 | 0.76 | 1.34 | 74.84 | 114.98 |
| 490 | 35.50 | 21.56 | 0.92 | 1.34 | 67.00 | 116.75 |
| 491 | 35.57 | 24.39 | 0.97 | 1.34 | 63.27 | 117.70 |
| 492 | 35.65 | 24.09 | 1.01 | 1.34 | 63.57 | 118.14 |
| 493 | 35.71 | 22.77 | 1.08 | 1.34 | 66.27 | 118.34 |
| 494 | 35.79 | 21.66 | 1.09 | 1.34 | 69.18 | 118.25 |
| 495 | 35.85 | 20.45 | 1.03 | 1.34 | 71.21 | 117.70 |
| 496 | 35.94 | 18.93 | 0.91 | 1.34 | 72.32 | 116.92 |
| 497 | 35.99 | 18.42 | 0.83 | 1.34 | 72.47 | 115.84 |
| 498 | 36.08 | 17.51 | 0.69 | 1.34 | 72.38 | 114.36 |
| 499 | 36.17 | 15.49 | 0.51 | 1.34 | 73.86 | 112.64 |
| 500 | 36.24 | 13.56 | 0.46 | 1.34 | 75.60 | 111.22 |
| 501 | 36.33 | 13.56 | 0.44 | 1.34 | 77.26 | 110.71 |
| 502 | 36.42 | 13.56 | 0.44 | 1.34 | 77.95 | 110.94 |
| 503 | 36.52 | 13.56 | 0.50 | 1.34 | 73.49 | 110.01 |
| 504 | 36.61 | 14.98 | 0.26 | 1.34 | 67.87 | 109.88 |
| 505 | 36.70 | 17.61 | 0.38 | 1.34 | 62.71 | 110.97 |
| 506 | 36.78 | 20.55 | 0.63 | 1.34 | 62.56 | 113.90 |
| 507 | 36.85 | 22.47 | 0.80 | 1.34 | 71.90 | 115.26 |
| 508 | 36.87 | 11.64 | 0.83 | 1.34 | 69.07 | 116.41 |
| 509 | 36.91 | 26.42 | 0.92 | 1.34 | 63.50 | 117.24 |
| 510 | 36.97 | 31.58 | 0.97 | 1.43 | 49.63 | 118.44 |
| 511 | 37.06 | 36.13 | 1.01 | 1.43 | 46.01 | 119.19 |
| 512 | 37.12 | 37.96 | 1.11 | 1.43 | 43.96 | 120.10 |
| 513 | 37.20 | 41.70 | 1.28 | 1.43 | 42.39 | 121.21 |
| 514 | 37.27 | 47.47 | 1.45 | 1.43 | 39.71 | 122.19 |
| 515 | 37.35 | 53.44 | 1.50 | 1.43 | 36.91 | 122.63 |
| 516 | 37.44 | 55.67 | 1.40 | 1.43 | 34.70 | 122.58 |
| 517 | 37.49 | 56.48 | 1.34 | 1.43 | 32.26 | 122.38 |
| 518 | 37.59 | 63.06 | 1.30 | 1.43 | 27.80 | 122.53 |
| 519 | 37.64 | 81.98 | 1.30 | 1.43 | 21.40 | 123.10 |
| 520 | 37.70 | 111.84 | 1.32 | 1.53 | 15.68 | 123.77 |
| 521 | 37.78 | 139.98 | 1.32 | 1.53 | 11.92 | 124.31 |
| 522 | 37.83 | 157.89 | 1.32 | 1.53 | 9.84 | 124.68 |
| 523 | 37.92 | 169.13 | 1.35 | 1.53 | 8.83 | 124.96 |
| 524 | 37.97 | 175.50 | 1.38 | 1.53 | 8.44 | 125.29 |
| 525 | 38.07 | 179.05 | 1.45 | 1.53 | 8.35 | 125.63 |
| 526 | 38.14 | 181.78 | 1.51 | 1.53 | 8.44 | 126.04 |
| 527 | 38.22 | 184.61 | 1.60 | 1.53 | 8.51 | 126.51 |
| 528 | 38.31 | 190.69 | 1.72 | 1.53 | 8.57 | 127.15 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 529 | 38.41 | 199.80 | 1.90 | 1.62 | 8.22 | 127.66 |
| 530 | 38.52 | 213.56 | 1.89 | 1.62 | 7.81 | 128.17 |
| 531 | 38.64 | 224.49 | 2.02 | 1.62 | 7.45 | 128.44 |
| 532 | 38.74 | 225.00 | 2.04 | 1.62 | 7.89 | 128.67 |
| 533 | 38.80 | 204.05 | 2.10 | 1.62 | 8.30 | 128.80 |
| 534 | 38.89 | 213.46 | 2.16 | 1.82 | 8.75 | 128.95 |
| 535 | 38.94 | 213.66 | 2.21 | 1.82 | 8.74 | 129.21 |
| 536 | 39.03 | 213.76 | 2.31 | 1.82 | 9.04 | 129.51 |
| 537 | 39.13 | 213.26 | 2.44 | 1.82 | 9.44 | 129.87 |
| 538 | 39.23 | 212.65 | 2.56 | 1.91 | 9.96 | 130.20 |
| 539 | 39.35 | 208.10 | 2.67 | 1.91 | 10.48 | 130.39 |
| 540 | 39.42 | 202.73 | 2.68 | 1.91 | 11.13 | 130.39 |
| 541 | 39.51 | 192.20 | 2.66 | 1.91 | 11.86 | 130.23 |
| 542 | 39.60 | 181.27 | 2.62 | 1.91 | 12.73 | 129.97 |
| 543 | 39.70 | 170.95 | 2.55 | 1.91 | 13.46 | 129.70 |
| 544 | 39.78 | 166.19 | 2.50 | 1.91 | 14.13 | 129.38 |
| 545 | 39.90 | 156.68 | 2.40 | 1.91 | 14.77 | 129.07 |
| 546 | 39.99 | 149.09 | 2.35 | 1.91 | 15.57 | 128.71 |
| 547 | 40.09 | 141.29 | 2.28 | 1.91 | 16.39 | 128.37 |
| 548 | 40.18 | 133.80 | 2.21 | 1.91 | 17.30 | 128.04 |
| 549 | 40.23 | 126.21 | 2.16 | 1.91 | 18.29 | 127.67 |
| 550 | 40.33 | 118.02 | 2.08 | 1.91 | 19.50 | 127.30 |
| 551 | 40.43 | 109.72 | 2.03 | 1.91 | 20.84 | 126.92 |
| 552 | 40.52 | 102.53 | 1.98 | 1.91 | 22.74 | 126.70 |
| 553 | 40.61 | 93.22 | 2.06 | 1.91 | 24.63 | 126.07 |
| 554 | 40.69 | 81.48 | 1.71 | 1.91 | 27.65 | 125.27 |
| 555 | 40.80 | 67.00 | 1.63 | 1.91 | 31.04 | 124.10 |
| 556 | 40.87 | 57.39 | 1.51 | 1.91 | 34.44 | 123.25 |
| 557 | 40.95 | 55.26 | 1.38 | 1.91 | 37.39 | 122.50 |
| 558 | 40.97 | 47.67 | 1.35 | 1.91 | 38.04 | 122.03 |
| 559 | 41.01 | 51.11 | 1.30 | 2.01 | 35.69 | 121.95 |
| 560 | 41.07 | 64.07 | 1.26 | 2.01 | 31.09 | 122.03 |
| 561 | 41.15 | 70.14 | 1.23 | 2.01 | 28.20 | 122.06 |
| 562 | 41.26 | 67.91 | 1.21 | 1.91 | 28.17 | 121.94 |
| 563 | 41.35 | 63.26 | 1.21 | 1.91 | 29.96 | 121.73 |
| 564 | 41.47 | 57.89 | 1.20 | 1.91 | 31.46 | 121.66 |
| 565 | 41.59 | 59.61 | 1.23 | 1.91 | 31.96 | 121.71 |
| 566 | 41.69 | 61.44 | 1.24 | 1.91 | 31.98 | 121.95 |
| 567 | 41.78 | 60.12 | 1.30 | 1.91 | 33.05 | 122.10 |
| 568 | 41.88 | 55.87 | 1.33 | 1.82 | 35.75 | 121.95 |
| 569 | 41.98 | 48.18 | 1.27 | 1.82 | 39.01 | 121.52 |
| 570 | 42.08 | 44.23 | 1.21 | 1.82 | 41.72 | 120.96 |
| 571 | 42.16 | 42.91 | 1.16 | 1.82 | 41.89 | 120.65 |
| 572 | 42.24 | 45.75 | 1.14 | 1.82 | 39.57 | 120.77 |
| 573 | 42.31 | 52.63 | 1.19 | 1.91 | 36.25 | 121.19 |
| 574 | 42.45 | 58.30 | 1.23 | 1.82 | 33.81 | 121.60 |
| 575 | 42.55 | 59.82 | 1.24 | 1.82 | 32.69 | 121.82 |
| 576 | 42.60 | 59.92 | 1.25 | 1.82 | 32.61 | 121.90 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 577 | 42.70 | 59.51 | 1.27 | 1.82 | 33.18 | 122.03 |
| 578 | 42.81 | 58.50 | 1.32 | 1.72 | 34.70 | 122.15 |
| 579 | 42.89 | 54.05 | 1.36 | 1.72 | 37.37 | 122.12 |
| 580 | 42.98 | 48.08 | 1.34 | 1.72 | 41.13 | 121.83 |
| 581 | 43.08 | 42.61 | 1.30 | 1.72 | 45.23 | 121.41 |
| 582 | 43.17 | 38.66 | 1.28 | 1.72 | 47.51 | 121.07 |
| 583 | 43.27 | 39.98 | 1.25 | 1.72 | 46.42 | 120.88 |
| 584 | 43.37 | 44.43 | 1.19 | 1.72 | 41.14 | 119.79 |
| 585 | 43.50 | 46.96 | 0.69 | 1.72 | 35.96 | 118.51 |
| 586 | 43.61 | 48.99 | 0.69 | 1.72 | 32.32 | 117.19 |
| 587 | 43.74 | 49.59 | 0.74 | 1.62 | 32.41 | 117.56 |
| 588 | 43.79 | 49.29 | 0.79 | 1.62 | 33.54 | 118.20 |
| 589 | 43.86 | 48.99 | 0.89 | 1.43 | 35.58 | 118.96 |
| 590 | 43.94 | 47.06 | 1.02 | 1.34 | 38.25 | 119.71 |
| 591 | 44.00 | 45.04 | 1.11 | 1.34 | 41.55 | 120.34 |
| 592 | 44.08 | 42.51 | 1.22 | 1.34 | 44.91 | 120.67 |
| 593 | 44.17 | 39.37 | 1.23 | 1.34 | 48.70 | 120.54 |
| 594 | 44.27 | 34.61 | 1.15 | 1.34 | 51.70 | 119.87 |
| 595 | 44.42 | 32.29 | 1.00 | 1.34 | 51.75 | 119.10 |
| 596 | 44.52 | 35.53 | 0.93 | 1.34 | 46.94 | 118.74 |
| 597 | 44.61 | 43.42 | 0.93 | 1.34 | 39.36 | 118.80 |
| 598 | 44.71 | 53.44 | 0.86 | 1.34 | 33.96 | 119.33 |
| 599 | 44.85 | 58.80 | 0.98 | 1.34 | 32.04 | 120.04 |
| 600 | 44.95 | 57.69 | 1.13 | 1.34 | 32.93 | 120.75 |
| 601 | 45.09 | 55.36 | 1.15 | 1.34 | 35.03 | 121.01 |
| 602 | 45.19 | 51.82 | 1.14 | 1.34 | 38.27 | 120.75 |
| 603 | 45.33 | 43.02 | 1.11 | 1.34 | 43.45 | 120.27 |
| 604 | 45.42 | 35.42 | 1.09 | 1.34 | 49.18 | 119.55 |
| 605 | 45.57 | 33.00 | 0.99 | 1.34 | 51.89 | 118.90 |
| 606 | 45.68 | 34.11 | 0.92 | 1.34 | 52.37 | 118.05 |
| 607 | 45.81 | 30.57 | 0.81 | 1.34 | 52.39 | 116.56 |
| 608 | 45.92 | 26.62 | 0.54 | 1.34 | 59.16 | 115.42 |
| 609 | 46.05 | 22.37 | 0.69 | 1.34 | 66.42 | 114.50 |
| 610 | 46.16 | 17.81 | 0.67 | 1.24 | 75.25 | 114.63 |
| 611 | 46.17 | 17.71 | 0.67 | 1.24 | 79.56 | 114.21 |
| 612 | 46.23 | 17.61 | 0.63 | 1.24 | 79.66 | 113.87 |
| 613 | 46.29 | 17.00 | 0.59 | 1.24 | 80.53 | 113.32 |
| 614 | 46.34 | 15.89 | 0.55 | 1.24 | 81.48 | 112.46 |
| 615 | 46.42 | 15.18 | 0.46 | 1.24 | 81.87 | 111.41 |
| 616 | 46.48 | 14.78 | 0.40 | 1.24 | 80.78 | 110.31 |
| 617 | 46.52 | 14.68 | 0.36 | 1.24 | 79.61 | 109.48 |
| 618 | 46.60 | 14.57 | 0.33 | 1.24 | 78.79 | 108.88 |
| 619 | 46.67 | 14.37 | 0.32 | 1.24 | 78.01 | 108.41 |
| 620 | 46.74 | 14.47 | 0.30 | 1.24 | 77.35 | 108.06 |
| 621 | 46.82 | 14.47 | 0.29 | 1.24 | 76.73 | 107.71 |
| 622 | 46.88 | 14.27 | 0.28 | 1.34 | 77.13 | 107.41 |
| 623 | 46.96 | 13.76 | 0.27 | 1.34 | 77.21 | 107.25 |
| 624 | 47.06 | 14.22 | 0.27 | 1.34 | 77.78 | 107.20 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 625 | 47.15 | 13.87 | 0.27 | 1.34 | 77.74 | 107.41 |
| 626 | 47.24 | 14.17 | 0.29 | 1.34 | 79.57 | 108.74 |
| 627 | 47.35 | 15.18 | 0.43 | 1.34 | 80.06 | 111.84 |
| 628 | 47.49 | 19.13 | 0.74 | 1.34 | 72.80 | 113.76 |
| 629 | 47.58 | 24.70 | 0.62 | 1.34 | 64.43 | 115.05 |
| 630 | 47.73 | 28.44 | 0.64 | 1.34 | 60.58 | 115.11 |
| 631 | 47.83 | 24.90 | 0.71 | 1.34 | 59.52 | 115.49 |
| 632 | 47.87 | 27.78 | 0.69 | 1.34 | 61.47 | 115.59 |
| 633 | 47.89 | 25.81 | 0.69 | 1.34 | 59.88 | 115.52 |
| 634 | 47.94 | 27.13 | 0.67 | 1.34 | 60.12 | 115.37 |
| 635 | 48.02 | 26.92 | 0.66 | 1.34 | 59.63 | 115.28 |
| 636 | 48.07 | 26.32 | 0.66 | 1.34 | 60.36 | 115.24 |
| 637 | 48.12 | 25.91 | 0.67 | 1.34 | 61.69 | 115.43 |
| 638 | 48.18 | 25.61 | 0.72 | 1.34 | 63.36 | 115.65 |
| 639 | 48.26 | 24.70 | 0.74 | 1.34 | 64.74 | 115.83 |
| 640 | 48.31 | 24.65 | 0.73 | 1.34 | 65.22 | 115.64 |
| 641 | 48.38 | 24.39 | 0.68 | 1.34 | 64.33 | 115.21 |
| 642 | 48.46 | 24.59 | 0.62 | 1.34 | 62.61 | 114.59 |
| 643 | 48.52 | 25.10 | 0.57 | 1.34 | 61.59 | 113.83 |
| 644 | 48.60 | 23.48 | 0.50 | 1.34 | 62.06 | 112.77 |
| 645 | 48.68 | 20.85 | 0.41 | 1.34 | 65.40 | 111.58 |
| 646 | 48.74 | 17.91 | 0.39 | 1.34 | 70.58 | 110.53 |
| 647 | 48.82 | 15.79 | 0.38 | 1.34 | 77.29 | 109.90 |
| 648 | 48.89 | 14.07 | 0.36 | 1.34 | 82.02 | 109.37 |
| 649 | 48.99 | 13.76 | 0.34 | 1.34 | 84.26 | 108.81 |
| 650 | 49.05 | 13.56 | 0.31 | 1.34 | 83.16 | 108.02 |
| 651 | 49.12 | 13.56 | 0.26 | 1.34 | 81.66 | 107.12 |
| 652 | 49.18 | 13.36 | 0.24 | 1.34 | 79.51 | 106.27 |
| 653 | 49.27 | 13.66 | 0.22 | 1.34 | 77.50 | 105.79 |
| 654 | 49.32 | 14.17 | 0.21 | 1.34 | 75.79 | 105.36 |
| 655 | 49.42 | 13.87 | 0.20 | 1.43 | 76.97 | 105.08 |
| 656 | 49.48 | 12.55 | 0.20 | 1.43 | 78.75 | 104.88 |
| 657 | 49.56 | 12.85 | 0.21 | 1.43 | 79.72 | 105.05 |
| 658 | 49.66 | 13.56 | 0.21 | 1.43 | 79.61 | 105.56 |
| 659 | 49.76 | 13.36 | 0.25 | 1.43 | 78.83 | 106.06 |
| 660 | 49.85 | 14.07 | 0.25 | 1.43 | 75.45 | 105.30 |
| 661 | 49.99 | 14.68 | 0.14 | 1.43 | 70.32 | 104.44 |
| 662 | 50.09 | 15.79 | 0.17 | 1.43 | 70.12 | 103.40 |
| 663 | 50.21 | 12.75 | 0.18 | 1.43 | 73.69 | 103.83 |
| 664 | 50.24 | 12.85 | 0.18 | 1.53 | 76.33 | 103.72 |
| 665 | 50.29 | 13.97 | 0.17 | 1.53 | 74.08 | 103.47 |
| 666 | 50.38 | 13.87 | 0.15 | 1.53 | 73.00 | 103.13 |
| 667 | 50.47 | 13.16 | 0.15 | 1.53 | 73.91 | 102.86 |
| 668 | 50.52 | 13.06 | 0.15 | 1.62 | 75.96 | 102.88 |
| 669 | 50.62 | 12.65 | 0.16 | 1.62 | 76.35 | 103.11 |
| 670 | 50.66 | 13.26 | 0.17 | 1.62 | 76.26 | 103.37 |
| 671 | 50.76 | 13.46 | 0.17 | 1.62 | 76.25 | 103.65 |
| 672 | 50.83 | 13.06 | 0.18 | 1.62 | 73.88 | 104.35 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 673 | 50.91 | 15.79 | 0.21 | 1.62 | 75.06 | 105.23 |
| 674 | 51.00 | 13.97 | 0.24 | 1.62 | 71.94 | 106.28 |
| 675 | 51.06 | 17.00 | 0.25 | 1.62 | 67.88 | 107.32 |
| 676 | 51.15 | 21.05 | 0.29 | 1.62 | 69.95 | 108.74 |
| 677 | 51.24 | 14.88 | 0.40 | 1.62 | 78.64 | 110.36 |
| 678 | 51.31 | 13.06 | 0.52 | 1.62 | 100.00 | 111.65 |
| 679 | 51.39 | 10.63 | 0.63 | 1.62 | 79.74 | 113.89 |
| 680 | 51.48 | 31.88 | 0.71 | 1.72 | 52.10 | 116.37 |
| 681 | 51.58 | 53.85 | 0.83 | 1.72 | 50.39 | 117.73 |
| 682 | 51.68 | 20.34 | 1.00 | 1.72 | 65.78 | 117.82 |
| 683 | 51.77 | 9.21 | 0.95 | 1.72 | 93.85 | 117.60 |
| 684 | 51.90 | 23.89 | 1.17 | 1.72 | 59.97 | 121.42 |
| 685 | 52.01 | 77.23 | 2.02 | 1.72 | 34.57 | 125.62 |
| 686 | 52.11 | 122.06 | 2.62 | 1.82 | 24.20 | 130.24 |
| 687 | 52.26 | 186.13 | 4.47 | 1.91 | 20.87 | 132.32 |
| 688 | 52.30 | 177.33 | 4.12 | 1.91 | 16.50 | 133.89 |
| 689 | 52.33 | 263.97 | 4.17 | 2.01 | 12.89 | 134.16 |
| 690 | 52.35 | 303.94 | 4.21 | 2.01 | 9.58 | 134.71 |
| 691 | 52.40 | 340.79 | 4.23 | 2.10 | 7.60 | 135.11 |
| 692 | 52.45 | 397.77 | 4.28 | 2.10 | 6.58 | 135.59 |
| 693 | 52.50 | 405.87 | 4.66 | 2.10 | 5.88 | 136.22 |
| 694 | 52.55 | 443.01 | 5.01 | 2.20 | 5.51 | 137.00 |
| 695 | 52.60 | 493.01 | 5.46 | 2.29 | 4.93 | 137.28 |
| 696 | 52.65 | 523.48 | 5.64 | 2.29 | 4.29 | 137.28 |
| 697 | 52.71 | 531.47 | 4.88 | 2.29 | 3.82 | 137.28 |
| 698 | 52.77 | 538.36 | 4.91 | 2.39 | 3.33 | 137.17 |
| 699 | 52.82 | 555.56 | 4.74 | 2.48 | 2.92 | 137.04 |
| 700 | 52.88 | 581.47 | 4.49 | 2.48 | 2.56 | 137.02 |
| 701 | 52.93 | 597.26 | 4.71 | 2.48 | 2.35 | 137.05 |
| 702 | 52.98 | 597.36 | 4.69 | 2.68 | 2.26 | 137.26 |
| 703 | 53.03 | 622.36 | 4.79 | 2.77 | 2.29 | 137.28 |
| 704 | 53.08 | 606.07 | 4.93 | 2.77 | 2.33 | 137.28 |
| 705 | 53.12 | 596.25 | 4.80 | 2.87 | 2.35 | 137.28 |
| 706 | 53.17 | 600.60 | 4.53 | 2.96 | 2.30 | 137.12 |
| 707 | 53.23 | 597.67 | 4.62 | 2.96 | 2.17 | 136.97 |
| 708 | 53.28 | 603.74 | 4.51 | 2.96 | 2.36 | 137.15 |
| 709 | 53.37 | 587.14 | 4.91 | 2.96 | 2.61 | 137.28 |
| 710 | 53.42 | 574.49 | 5.08 | 2.96 | 2.84 | 137.28 |
| 711 | 53.46 | 590.58 | 5.02 | 3.06 | 3.06 | 137.28 |
| 712 | 53.53 | 595.24 | 5.73 | 3.06 | 3.30 | 137.28 |
| 713 | 53.61 | 611.13 | 6.49 | 3.15 | 3.78 | 137.28 |
| 714 | 53.62 | 585.52 | 6.56 | 3.15 | 4.29 | 137.28 |
| 715 | 53.65 | 550.00 | 6.65 | 3.15 | 4.43 | 137.28 |
| 716 | 53.67 | 586.48 | 6.45 | 3.15 | 4.49 | 137.28 |
| 717 | 53.70 | 577.42 | 6.61 | 3.15 | 4.24 | 137.28 |
| 718 | 53.74 | 587.44 | 6.53 | 3.25 | 4.32 | 137.28 |
| 719 | 53.76 | 583.50 | 6.67 | 3.25 | 4.30 | 137.28 |
| 720 | 53.80 | 580.36 | 6.60 | 3.35 | 4.27 | 137.28 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 721 | 53.84 | 579.25 | 6.26 | 3.35 | 4.16 | 137.28 |
| 722 | 53.90 | 573.68 | 6.10 | 3.54 | 4.02 | 137.28 |
| 723 | 53.91 | 581.62 | 6.13 | 3.54 | 4.14 | 137.28 |
| 724 | 53.95 | 555.16 | 6.20 | 3.35 | 4.11 | 137.28 |
| 725 | 53.96 | 584.00 | 6.20 | 3.54 | 4.03 | 137.28 |
| 726 | 53.98 | 600.50 | 6.20 | 3.35 | 3.69 | 137.28 |
| 727 | 53.99 | 618.52 | 6.20 | 3.54 | 3.66 | 137.28 |
| 728 | 54.01 | 589.67 | 6.20 | 3.54 | 3.83 | 137.28 |
| 729 | 54.02 | 568.11 | 6.20 | 3.54 | 4.04 | 137.28 |
| 730 | 54.03 | 580.06 | 6.20 | 3.44 | 4.51 | 137.28 |
| 731 | 54.04 | 511.13 | 6.23 | 3.44 | 5.55 | 137.28 |
| 732 | 54.05 | 423.17 | 6.26 | 3.44 | 7.02 | 137.28 |
| 733 | 54.09 | 422.06 | 6.38 | 3.44 | 8.01 | 137.28 |
| 734 | 54.10 | 422.52 | 6.39 | 3.44 | 8.11 | 137.28 |
| 735 | 54.13 | 420.04 | 6.40 | 3.44 | 8.10 | 137.28 |
| 736 | 54.14 | 422.97 | 6.38 | 3.54 | 8.17 | 137.28 |
| 737 | 54.19 | 419.73 | 6.47 | 3.54 | 8.19 | 137.28 |
| 738 | 54.19 | 425.60 | 6.59 | 3.54 | 8.13 | 137.28 |
| 739 | 54.24 | 440.89 | 6.74 | 3.54 | 7.58 | 137.28 |
| 740 | 54.29 | 451.01 | 5.95 | 3.63 | 6.38 | 137.28 |
| 741 | 54.33 | 478.84 | 4.90 | 3.63 | 4.97 | 137.18 |
| 742 | 54.38 | 492.30 | 4.37 | 3.73 | 3.90 | 136.44 |
| 743 | 54.39 | 513.56 | 4.28 | 3.73 | 3.34 | 136.18 |
| 744 | 54.43 | 532.08 | 4.28 | 3.82 | 3.17 | 136.44 |
| 745 | 54.48 | 541.59 | 4.69 | 3.92 | 2.05 | 135.02 |
| 746 | 54.52 | 555.46 | 1.86 | 4.01 | 1.07 | 133.52 |
| 747 | 54.58 | 572.77 | 2.20 | 4.01 | 0.00 | 131.47 |
| 748 | 54.62 | 593.21 | 2.48 | 4.01 | 0.17 | 132.34 |
| 749 | 54.65 | 595.24 | 2.63 | 4.11 | 0.34 | 133.29 |
| 750 | 54.67 | 624.69 | 3.14 | 4.21 | 0.41 | 134.02 |
| 751 | 54.71 | 649.89 | 3.25 | 4.30 | 0.23 | 134.52 |
| 752 | 54.77 | 699.69 | 3.10 | 4.30 | 0.00 | 132.94 |
| 753 | 54.81 | 688.25 | 1.22 | 4.40 | 0.00 | 131.29 |
| 754 | 54.85 | 720.84 | 1.65 | 4.49 | 0.00 | 129.34 |
| 755 | 54.86 | 702.93 | 1.70 | 4.49 | 0.00 | 130.17 |
| 756 | 54.87 | 703.44 | 1.76 | 4.01 | 0.00 | 130.82 |
| 757 | 54.91 | 703.44 | 2.13 | 4.01 | 0.00 | 131.80 |
| 758 | 54.96 | 703.94 | 2.50 | 4.11 | 0.00 | 132.67 |
| 759 | 55.00 | 713.86 | 2.56 | 4.21 | 0.00 | 133.08 |
| 760 | 55.01 | 691.59 | 2.56 | 4.30 | 0.00 | 133.14 |
| 761 | 55.05 | 681.88 | 2.60 | 4.30 | 0.00 | 133.23 |
| 762 | 55.10 | 663.66 | 2.72 | 4.30 | 0.00 | 133.31 |
| 763 | 55.12 | 607.48 | 2.75 | 4.30 | 0.35 | 133.29 |
| 764 | 55.13 | 539.98 | 2.77 | 3.82 | 0.72 | 133.17 |
| 765 | 55.14 | 565.28 | 2.75 | 3.82 | 0.76 | 133.02 |
| 766 | 55.19 | 583.90 | 2.62 | 3.92 | 0.54 | 132.92 |
| 767 | 55.20 | 581.37 | 2.60 | 3.92 | 0.51 | 132.84 |
| 768 | 55.25 | 563.36 | 2.67 | 3.92 | 0.76 | 132.97 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 769 | 55.29 | 541.49 | 2.82 | 3.92 | 1.13 | 133.28 |
| 770 | 55.33 | 533.19 | 3.02 | 3.82 | 1.75 | 133.67 |
| 771 | 55.38 | 484.21 | 3.29 | 3.82 | 3.14 | 134.78 |
| 772 | 55.48 | 425.91 | 4.60 | 3.73 | 4.92 | 135.85 |
| 773 | 55.57 | 407.69 | 5.12 | 3.82 | 6.63 | 136.68 |
| 774 | 55.63 | 400.40 | 5.18 | 3.73 | 8.12 | 137.28 |
| 775 | 55.72 | 386.03 | 6.83 | 3.82 | 8.85 | 137.28 |
| 776 | 55.80 | 419.53 | 7.09 | 3.92 | 8.57 | 137.28 |
| 777 | 55.86 | 487.55 | 7.03 | 3.92 | 5.58 | 137.28 |
| 778 | 55.97 | 534.41 | 2.93 | 4.01 | 2.94 | 135.99 |
| 779 | 56.01 | 561.43 | 2.52 | 4.11 | 0.84 | 133.07 |
| 780 | 56.06 | 585.62 | 2.75 | 4.11 | 2.80 | 133.29 |
| 781 | 56.11 | 616.29 | 3.05 | 4.21 | 2.89 | 134.29 |
| 782 | 56.15 | 637.24 | 3.61 | 4.21 | 2.94 | 135.21 |
| 783 | 56.20 | 668.42 | 3.85 | 4.21 | 3.11 | 136.08 |
| 784 | 56.27 | 676.92 | 4.26 | 4.21 | 3.34 | 136.55 |
| 785 | 56.27 | 643.97 | 4.36 | 3.54 | 3.72 | 137.19 |
| 786 | 56.30 | 671.45 | 5.00 | 3.63 | 4.59 | 137.28 |
| 787 | 56.33 | 611.03 | 5.86 | 3.63 | 4.98 | 137.28 |
| 788 | 56.35 | 665.99 | 5.93 | 3.73 | 5.33 | 137.28 |
| 789 | 56.40 | 665.78 | 6.04 | 3.73 | 5.05 | 137.28 |
| 790 | 56.41 | 671.65 | 6.02 | 3.73 | 5.04 | 137.28 |
| 791 | 56.44 | 670.44 | 5.96 | 3.73 | 4.83 | 137.28 |
| 792 | 56.49 | 702.32 | 5.96 | 4.01 | 4.63 | 137.28 |
| 793 | 56.54 | 712.65 | 6.04 | 4.01 | 4.51 | 137.28 |
| 794 | 56.58 | 737.34 | 6.69 | 4.01 | 4.47 | 137.28 |
| 795 | 56.59 | 761.53 | 6.82 | 4.01 | 4.50 | 137.28 |
| 796 | 56.64 | 751.51 | 6.82 | 4.11 | 4.44 | 137.28 |
| 797 | 56.69 | 758.80 | 6.82 | 4.11 | 4.36 | 137.28 |
| 798 | 56.73 | 783.90 | 6.89 | 4.11 | 4.18 | 137.28 |
| 799 | 56.78 | 791.59 | 6.79 | 4.01 | 4.03 | 137.28 |
| 800 | 56.83 | 760.01 | 6.22 | 3.92 | 4.01 | 137.28 |
| 801 | 56.88 | 726.82 | 5.89 | 3.92 | 4.11 | 137.28 |
| 802 | 56.89 | 708.40 | 5.80 | 3.92 | 4.29 | 137.28 |
| 803 | 56.95 | 691.29 | 5.71 | 3.92 | 4.27 | 137.28 |
| 804 | 57.01 | 677.73 | 5.02 | 3.92 | 4.25 | 137.28 |
| 805 | 57.07 | 634.81 | 4.55 | 3.92 | 4.06 | 137.16 |
| 806 | 57.11 | 625.10 | 4.12 | 3.92 | 3.10 | 134.76 |
| 807 | 57.17 | 598.27 | 1.33 | 3.92 | 2.28 | 132.45 |
| 808 | 57.26 | 572.36 | 1.93 | 3.92 | 1.15 | 128.54 |
| 809 | 57.31 | 551.41 | 1.12 | 3.82 | 1.89 | 129.56 |
| 810 | 57.37 | 517.20 | 2.07 | 3.92 | 2.19 | 129.21 |
| 811 | 57.45 | 491.70 | 1.77 | 3.82 | 3.04 | 129.89 |
| 812 | 57.51 | 461.74 | 1.72 | 3.92 | 3.56 | 129.21 |
| 813 | 57.53 | 400.30 | 1.71 | 3.44 | 4.16 | 128.95 |
| 814 | 57.59 | 402.43 | 1.70 | 3.35 | 4.63 | 128.80 |
| 815 | 57.63 | 401.31 | 1.70 | 3.35 | 4.68 | 128.76 |
| 816 | 57.68 | 393.01 | 1.70 | 3.35 | 4.88 | 128.72 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 817 | 57.73 | 380.06 | 1.70 | 3.35 | 5.00 | 128.66 |
| 818 | 57.78 | 386.23 | 1.69 | 3.25 | 5.00 | 128.45 |
| 819 | 57.86 | 370.64 | 1.59 | 3.25 | 5.00 | 127.83 |
| 820 | 57.92 | 322.87 | 1.37 | 3.25 | 5.00 | 127.38 |
| 821 | 57.98 | 285.32 | 1.55 | 3.15 | 5.00 | 126.34 |
| 822 | 58.06 | 264.17 | 1.14 | 3.15 | 8.62 | 126.17 |
| 823 | 58.12 | 240.38 | 1.42 | 3.06 | 10.36 | 126.82 |
| 824 | 58.21 | 224.09 | 2.06 | 3.06 | 12.69 | 127.74 |
| 825 | 58.26 | 202.63 | 1.92 | 2.96 | 14.68 | 128.10 |
| 826 | 58.35 | 186.44 | 1.85 | 2.87 | 16.91 | 127.69 |
| 827 | 58.41 | 151.92 | 1.98 | 2.77 | 18.65 | 126.15 |
| 828 | 58.50 | 126.31 | 1.07 | 2.77 | 22.32 | 124.42 |
| 829 | 58.56 | 90.18 | 1.13 | 2.68 | 25.70 | 122.30 |
| 830 | 58.64 | 77.93 | 1.17 | 2.68 | 32.24 | 121.95 |
| 831 | 58.73 | 65.49 | 1.17 | 2.58 | 38.56 | 121.50 |
| 832 | 58.80 | 47.47 | 1.15 | 2.58 | 46.17 | 120.90 |
| 833 | 58.84 | 40.28 | 1.14 | 2.58 | 53.64 | 120.39 |
| 834 | 58.85 | 38.87 | 1.15 | 2.10 | 52.29 | 120.54 |
| 835 | 58.93 | 52.12 | 1.18 | 2.10 | 46.67 | 120.88 |
| 836 | 58.98 | 60.42 | 1.13 | 2.10 | 41.28 | 121.05 |
| 837 | 59.02 | 61.74 | 1.07 | 2.01 | 38.75 | 120.92 |
| 838 | 59.12 | 63.06 | 1.05 | 2.01 | 37.78 | 120.90 |
| 839 | 59.17 | 65.28 | 1.10 | 1.91 | 37.23 | 121.24 |
| 840 | 59.27 | 67.81 | 1.19 | 1.91 | 37.05 | 121.75 |
| 841 | 59.31 | 68.83 | 1.26 | 1.82 | 37.57 | 122.15 |
| 842 | 59.41 | 66.19 | 1.29 | 1.82 | 39.18 | 122.16 |
| 843 | 59.46 | 59.41 | 1.25 | 1.72 | 42.47 | 121.59 |
| 844 | 59.55 | 48.28 | 1.11 | 1.72 | 47.58 | 120.51 |
| 845 | 59.65 | 38.56 | 0.98 | 1.62 | 52.69 | 118.45 |
| 846 | 59.70 | 32.08 | 0.61 | 1.62 | 56.48 | 116.90 |
| 847 | 59.80 | 32.03 | 0.70 | 1.62 | 57.81 | 115.98 |
| 848 | 59.89 | 32.03 | 0.75 | 1.62 | 59.47 | 116.71 |
| 849 | 59.94 | 31.98 | 0.83 | 1.53 | 62.29 | 117.23 |
| 850 | 60.01 | 29.05 | 0.89 | 1.53 | 64.42 | 117.61 |
| 851 | 60.02 | 29.96 | 0.90 | 1.05 | 61.57 | 118.05 |
| 852 | 60.08 | 38.87 | 0.92 | 1.05 | 57.81 | 118.31 |
| 853 | 60.12 | 37.75 | 0.91 | 1.05 | 56.24 | 118.23 |
| 854 | 60.17 | 33.00 | 0.85 | 1.05 | 59.45 | 117.26 |
| 855 | 60.27 | 27.83 | 0.68 | 0.96 | 63.29 | 115.67 |
| 856 | 60.31 | 24.80 | 0.53 | 0.96 | 66.90 | 113.84 |
| 857 | 60.37 | 21.76 | 0.47 | 0.96 | 69.47 | 112.16 |
| 858 | 60.46 | 20.04 | 0.38 | 0.96 | 70.56 | 111.08 |
| 859 | 60.51 | 20.95 | 0.36 | 0.96 | 68.92 | 110.12 |
| 860 | 60.61 | 21.25 | 0.32 | 0.96 | 66.37 | 109.76 |
| 861 | 60.65 | 22.06 | 0.32 | 0.96 | 64.85 | 109.53 |
| 862 | 60.75 | 22.17 | 0.33 | 0.96 | 64.20 | 109.61 |
| 863 | 60.81 | 22.27 | 0.33 | 0.96 | 64.08 | 109.63 |
| 864 | 60.89 | 22.27 | 0.33 | 0.96 | 63.94 | 109.50 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 865 | 60.94 | 22.06 | 0.31 | 0.96 | 63.62 | 109.62 |
| 866 | 61.03 | 22.98 | 0.34 | 0.96 | 63.91 | 109.95 |
| 867 | 61.09 | 22.77 | 0.37 | 0.96 | 64.04 | 110.05 |
| 868 | 61.19 | 22.17 | 0.32 | 0.96 | 64.33 | 109.85 |
| 869 | 61.24 | 22.17 | 0.32 | 0.96 | 62.81 | 109.78 |
| 870 | 61.33 | 24.49 | 0.35 | 0.96 | 60.69 | 110.44 |
| 871 | 61.38 | 26.82 | 0.39 | 0.96 | 65.07 | 112.24 |
| 872 | 61.47 | 21.25 | 0.62 | 0.96 | 71.67 | 113.99 |
| 873 | 61.53 | 21.36 | 0.74 | 0.96 | 79.17 | 115.51 |
| 874 | 61.62 | 22.98 | 0.84 | 0.96 | 67.75 | 116.60 |
| 875 | 61.70 | 38.46 | 0.78 | 0.96 | 49.71 | 119.32 |
| 876 | 61.77 | 71.96 | 1.30 | 0.96 | 39.07 | 122.50 |
| 877 | 61.86 | 89.98 | 1.86 | 1.05 | 35.53 | 124.72 |
| 878 | 61.95 | 83.91 | 1.82 | 0.96 | 37.04 | 125.34 |
| 879 | 61.97 | 69.13 | 1.75 | 0.96 | 40.15 | 124.80 |
| 880 | 62.01 | 64.78 | 1.66 | 0.76 | 44.89 | 124.10 |
| 881 | 62.10 | 53.14 | 1.59 | 0.96 | 50.12 | 122.90 |
| 882 | 62.24 | 38.56 | 1.26 | 0.86 | 45.56 | 121.95 |
| 883 | 62.34 | 74.49 | 1.03 | 0.96 | 29.67 | 122.37 |
| 884 | 62.49 | 150.00 | 1.24 | 1.05 | 20.54 | 123.30 |
| 885 | 62.54 | 158.20 | 1.26 | 1.05 | 16.26 | 124.73 |
| 886 | 62.66 | 185.32 | 1.44 | 1.05 | 14.83 | 125.34 |
| 887 | 62.74 | 200.61 | 1.45 | 1.05 | 13.53 | 125.96 |
| 888 | 62.87 | 213.05 | 1.49 | 1.05 | 12.71 | 126.26 |
| 889 | 62.92 | 221.25 | 1.54 | 1.05 | 12.47 | 126.53 |
| 890 | 63.03 | 217.20 | 1.57 | 1.05 | 12.52 | 126.76 |
| 891 | 63.15 | 219.03 | 1.63 | 1.15 | 12.78 | 126.94 |
| 892 | 63.26 | 217.91 | 1.66 | 1.15 | 13.29 | 127.02 |
| 893 | 63.37 | 202.33 | 1.66 | 1.15 | 13.86 | 126.99 |
| 894 | 63.45 | 199.80 | 1.66 | 1.15 | 13.98 | 126.43 |
| 895 | 63.54 | 198.28 | 1.34 | 1.15 | 13.43 | 125.53 |
| 896 | 63.61 | 194.63 | 1.14 | 1.15 | 13.55 | 124.83 |
| 897 | 63.69 | 177.93 | 1.33 | 1.15 | 15.16 | 124.41 |
| 898 | 63.79 | 143.52 | 1.25 | 1.15 | 19.52 | 124.50 |
| 899 | 63.89 | 103.64 | 1.44 | 1.15 | 24.98 | 122.85 |
| 900 | 63.98 | 71.25 | 0.85 | 1.15 | 33.14 | 121.18 |
| 901 | 64.07 | 50.71 | 0.88 | 1.15 | 41.48 | 118.58 |
| 902 | 64.15 | 37.45 | 0.76 | 1.15 | 52.38 | 117.41 |
| 903 | 64.23 | 29.15 | 0.71 | 1.15 | 63.17 | 116.21 |
| 904 | 64.26 | 23.28 | 0.70 | 1.15 | 71.64 | 115.56 |
| 905 | 64.29 | 22.98 | 0.70 | 1.43 | 74.94 | 115.28 |
| 906 | 64.33 | 24.39 | 0.67 | 1.43 | 73.52 | 114.50 |
| 907 | 64.43 | 22.67 | 0.50 | 1.43 | 71.96 | 113.44 |
| 908 | 64.47 | 21.86 | 0.45 | 1.53 | 70.64 | 112.07 |
| 909 | 64.53 | 22.27 | 0.41 | 1.53 | 70.50 | 111.44 |
| 910 | 64.62 | 21.25 | 0.40 | 1.53 | 73.02 | 110.99 |
| 911 | 64.72 | 18.22 | 0.40 | 1.53 | 77.07 | 110.67 |
| 912 | 64.78 | 17.81 | 0.39 | 1.53 | 81.00 | 110.63 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 913 | 64.86 | 17.91 | 0.41 | 1.53 | 81.31 | 111.04 |
| 914 | 64.96 | 18.83 | 0.47 | 1.62 | 81.88 | 112.08 |
| 915 | 65.06 | 19.53 | 0.57 | 1.62 | 82.82 | 113.03 |
| 916 | 65.11 | 19.23 | 0.60 | 1.62 | 84.86 | 113.77 |
| 917 | 65.21 | 18.83 | 0.64 | 1.62 | 87.03 | 114.04 |
| 918 | 65.31 | 18.42 | 0.64 | 1.62 | 88.72 | 114.06 |
| 919 | 65.40 | 18.02 | 0.62 | 1.62 | 86.96 | 113.18 |
| 920 | 65.50 | 18.32 | 0.43 | 1.62 | 82.58 | 111.98 |
| 921 | 65.58 | 19.33 | 0.38 | 1.62 | 77.73 | 110.66 |
| 922 | 65.68 | 19.33 | 0.38 | 1.72 | 76.23 | 110.07 |
| 923 | 65.78 | 18.42 | 0.34 | 1.72 | 80.14 | 109.58 |
| 924 | 65.84 | 15.18 | 0.33 | 1.72 | 84.20 | 109.11 |
| 925 | 65.86 | 15.54 | 0.33 | 1.72 | 87.64 | 108.93 |
| 926 | 65.87 | 15.89 | 0.33 | 1.72 | 83.53 | 109.02 |
| 927 | 65.98 | 18.02 | 0.33 | 1.72 | 80.56 | 109.07 |
| 928 | 66.10 | 17.81 | 0.33 | 1.72 | 79.47 | 109.53 |
| 929 | 66.21 | 17.61 | 0.38 | 1.72 | 79.99 | 110.29 |
| 930 | 66.34 | 19.13 | 0.43 | 1.72 | 79.70 | 110.56 |
| 931 | 66.48 | 18.62 | 0.36 | 1.72 | 78.52 | 110.82 |
| 932 | 66.62 | 19.18 | 0.42 | 1.72 | 79.48 | 110.40 |
| 933 | 66.68 | 17.51 | 0.38 | 1.72 | 80.06 | 110.93 |
| 934 | 66.87 | 19.23 | 0.44 | 1.82 | 82.16 | 112.09 |
| 935 | 66.96 | 19.94 | 0.62 | 1.82 | 85.60 | 113.68 |
| 936 | 67.11 | 18.22 | 0.72 | 1.82 | 91.78 | 114.55 |
| 937 | 67.21 | 16.50 | 0.70 | 1.82 | 96.41 | 113.97 |
| 938 | 67.35 | 15.69 | 0.52 | 1.82 | 96.63 | 113.04 |
| 939 | 67.45 | 16.40 | 0.51 | 1.82 | 100.00 | 114.17 |
| 940 | 67.59 | 16.30 | 0.99 | 1.82 | 74.11 | 118.15 |
| 941 | 67.68 | 49.49 | 1.42 | 1.82 | 36.45 | 123.51 |
| 942 | 67.83 | 166.29 | 1.89 | 1.91 | 19.64 | 126.78 |
| 943 | 67.92 | 263.46 | 1.98 | 1.91 | 12.65 | 128.48 |
| 944 | 68.02 | 293.92 | 1.94 | 1.91 | 10.42 | 129.17 |
| 945 | 68.07 | 292.10 | 2.13 | 2.01 | 9.92 | 129.67 |
| 946 | 68.16 | 310.93 | 2.28 | 2.01 | 9.66 | 129.78 |
| 947 | 68.26 | 313.97 | 1.99 | 2.01 | 9.50 | 129.92 |
| 948 | 68.35 | 307.79 | 2.22 | 2.01 | 9.90 | 130.20 |
| 949 | 68.45 | 301.41 | 2.56 | 2.01 | 10.63 | 130.56 |
| 950 | 68.55 | 290.58 | 2.39 | 2.01 | 11.31 | 130.75 |
| 951 | 68.65 | 282.39 | 2.48 | 2.01 | 12.31 | 130.45 |
| 952 | 68.78 | 242.10 | 2.43 | 2.01 | 13.49 | 130.30 |
| 953 | 68.78 | 236.18 | 2.41 | 2.01 | 14.48 | 130.04 |
| 954 | 68.79 | 236.18 | 2.38 | 2.01 | 14.61 | 129.83 |
| 955 | 68.83 | 230.26 | 2.26 | 2.10 | 13.84 | 129.35 |
| 956 | 68.93 | 246.56 | 1.93 | 2.20 | 12.61 | 128.54 |
| 957 | 68.98 | 254.15 | 1.63 | 2.20 | 11.06 | 127.54 |
| 958 | 69.04 | 259.82 | 1.45 | 2.20 | 10.24 | 126.83 |
| 959 | 69.12 | 259.31 | 1.45 | 2.20 | 10.05 | 126.69 |
| 960 | 69.22 | 258.60 | 1.54 | 2.29 | 10.33 | 126.73 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 961 | 69.28 | 248.07 | 1.50 | 2.29 | 10.73 | 126.58 |
| 962 | 69.36 | 236.43 | 1.40 | 2.29 | 11.11 | 126.14 |
| 963 | 69.45 | 227.63 | 1.34 | 2.29 | 11.72 | 125.57 |
| 964 | 69.60 | 206.58 | 1.26 | 2.29 | 12.39 | 125.02 |
| 965 | 69.70 | 196.05 | 1.19 | 2.29 | 13.09 | 124.55 |
| 966 | 69.80 | 191.80 | 1.17 | 2.29 | 13.36 | 124.31 |
| 967 | 69.89 | 192.31 | 1.17 | 2.29 | 13.46 | 124.27 |
| 968 | 69.98 | 192.00 | 1.18 | 2.39 | 13.63 | 124.23 |
| 969 | 70.08 | 186.03 | 1.17 | 2.39 | 14.12 | 123.79 |
| 970 | 70.18 | 167.51 | 1.02 | 2.39 | 16.36 | 123.38 |
| 971 | 70.32 | 125.81 | 1.13 | 2.39 | 21.31 | 122.57 |
| 972 | 70.42 | 79.55 | 1.08 | 2.29 | 30.56 | 121.25 |
| 973 | 70.54 | 47.47 | 0.86 | 2.29 | 44.49 | 118.96 |
| 974 | 70.66 | 28.34 | 0.70 | 2.29 | 62.02 | 116.28 |
| 975 | 70.75 | 19.64 | 0.59 | 2.29 | 75.05 | 114.30 |
| 976 | 70.80 | 22.47 | 0.52 | 2.48 | 75.37 | 112.45 |
| 977 | 70.89 | 23.18 | 0.33 | 2.48 | 68.76 | 110.56 |
| 978 | 70.99 | 22.17 | 0.25 | 2.48 | 64.60 | 108.11 |
| 979 | 71.08 | 21.56 | 0.21 | 2.48 | 63.51 | 106.54 |
| 980 | 71.17 | 21.05 | 0.19 | 2.58 | 62.68 | 105.76 |
| 981 | 71.23 | 21.56 | 0.19 | 2.58 | 63.23 | 105.32 |
| 982 | 71.33 | 20.04 | 0.18 | 2.58 | 62.20 | 104.96 |
| 983 | 71.42 | 21.56 | 0.16 | 2.58 | 59.64 | 104.34 |
| 984 | 71.52 | 23.48 | 0.14 | 2.58 | 56.37 | 103.78 |
| 985 | 71.58 | 23.28 | 0.14 | 2.58 | 56.41 | 104.37 |
| 986 | 71.67 | 22.77 | 0.19 | 2.58 | 59.63 | 105.94 |
| 987 | 71.81 | 22.47 | 0.26 | 2.68 | 62.96 | 107.28 |
| 988 | 71.82 | 22.06 | 0.26 | 2.68 | 64.77 | 107.94 |
| 989 | 71.86 | 22.06 | 0.26 | 2.68 | 65.57 | 107.99 |
| 990 | 71.91 | 21.66 | 0.26 | 2.68 | 65.98 | 108.01 |
| 991 | 71.97 | 21.66 | 0.26 | 2.68 | 66.78 | 108.09 |
| 992 | 72.05 | 21.36 | 0.27 | 2.68 | 67.69 | 108.22 |
| 993 | 72.10 | 20.95 | 0.28 | 2.68 | 68.75 | 108.41 |
| 994 | 72.20 | 20.95 | 0.29 | 2.68 | 69.45 | 108.55 |
| 995 | 72.25 | 20.95 | 0.29 | 2.77 | 70.00 | 108.81 |
| 996 | 72.34 | 20.95 | 0.31 | 2.77 | 70.88 | 109.34 |
| 997 | 72.44 | 21.25 | 0.35 | 2.77 | 72.30 | 109.98 |
| 998 | 72.53 | 20.95 | 0.38 | 2.77 | 74.03 | 110.47 |
| 999 | 72.63 | 20.34 | 0.39 | 2.77 | 74.87 | 110.69 |
| 1000 | 72.69 | 20.95 | 0.39 | 2.77 | 75.74 | 110.64 |
| 1001 | 72.82 | 20.04 | 0.38 | 2.77 | 75.05 | 110.60 |
| 1002 | 72.92 | 20.95 | 0.38 | 2.77 | 73.32 | 110.41 |
| 1003 | 73.06 | 22.27 | 0.35 | 2.87 | 70.40 | 110.34 |
| 1004 | 73.16 | 22.98 | 0.35 | 2.87 | 70.10 | 110.49 |
| 1005 | 73.30 | 21.66 | 0.39 | 2.87 | 74.63 | 110.57 |
| 1006 | 73.35 | 17.81 | 0.39 | 2.87 | 78.07 | 110.69 |
| 1007 | 73.38 | 20.04 | 0.39 | 2.87 | 79.92 | 110.48 |
| 1008 | 73.47 | 19.64 | 0.37 | 2.87 | 77.08 | 110.44 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1009 | 73.53 | 20.24 | 0.37 | 2.96 | 76.55 | 110.30 |
| 1010 | 73.62 | 20.24 | 0.36 | 2.96 | 76.12 | 110.24 |
| 1011 | 73.71 | 19.94 | 0.36 | 2.96 | 77.10 | 110.31 |
| 1012 | 73.77 | 19.53 | 0.38 | 2.96 | 79.03 | 110.64 |
| 1013 | 73.86 | 19.23 | 0.42 | 3.06 | 81.15 | 111.10 |
| 1014 | 73.96 | 19.13 | 0.45 | 3.06 | 82.23 | 111.57 |
| 1015 | 74.06 | 19.64 | 0.47 | 3.06 | 82.36 | 111.89 |
| 1016 | 74.13 | 19.84 | 0.48 | 3.06 | 81.49 | 112.15 |
| 1017 | 74.24 | 20.45 | 0.48 | 3.06 | 80.85 | 112.33 |
| 1018 | 74.34 | 20.65 | 0.50 | 3.06 | 80.73 | 112.54 |
| 1019 | 74.44 | 20.45 | 0.51 | 3.06 | 81.57 | 112.67 |
| 1020 | 74.58 | 20.04 | 0.51 | 3.06 | 81.41 | 112.52 |
| 1021 | 74.68 | 20.50 | 0.47 | 3.06 | 78.40 | 111.21 |
| 1022 | 74.80 | 20.24 | 0.27 | 3.15 | 74.93 | 109.94 |
| 1023 | 74.92 | 20.55 | 0.31 | 3.15 | 73.80 | 109.11 |
| 1024 | 75.07 | 19.84 | 0.36 | 3.15 | 75.92 | 109.75 |
| 1025 | 75.08 | 19.64 | 0.36 | 3.15 | 77.59 | 110.03 |
| 1026 | 75.11 | 19.64 | 0.36 | 3.25 | 78.16 | 110.07 |
| 1027 | 75.16 | 19.43 | 0.37 | 3.25 | 78.98 | 110.30 |
| 1028 | 75.25 | 19.43 | 0.39 | 3.25 | 80.91 | 110.74 |
| 1029 | 75.32 | 18.93 | 0.43 | 3.35 | 82.63 | 111.17 |
| 1030 | 75.40 | 18.93 | 0.44 | 3.35 | 83.61 | 111.30 |
| 1031 | 75.50 | 18.93 | 0.42 | 3.35 | 83.49 | 110.99 |
| 1032 | 75.59 | 18.42 | 0.38 | 3.35 | 83.68 | 110.27 |
| 1033 | 75.69 | 17.41 | 0.34 | 3.35 | 84.66 | 109.43 |
| 1034 | 75.78 | 16.70 | 0.31 | 3.35 | 85.61 | 108.57 |
| 1035 | 75.88 | 16.30 | 0.28 | 3.35 | 85.84 | 107.84 |
| 1036 | 75.96 | 16.09 | 0.26 | 3.35 | 85.52 | 107.10 |
| 1037 | 76.05 | 15.79 | 0.24 | 3.35 | 84.67 | 106.59 |
| 1038 | 76.14 | 16.09 | 0.23 | 3.44 | 84.37 | 106.31 |
| 1039 | 76.26 | 15.89 | 0.23 | 3.44 | 84.09 | 106.37 |
| 1040 | 76.36 | 16.09 | 0.24 | 3.44 | 84.42 | 106.50 |
| 1041 | 76.41 | 16.09 | 0.24 | 3.44 | 84.56 | 106.55 |
| 1042 | 76.51 | 15.89 | 0.23 | 3.44 | 85.32 | 106.38 |
| 1043 | 76.65 | 15.38 | 0.23 | 3.44 | 86.78 | 106.27 |
| 1044 | 76.72 | 15.08 | 0.24 | 3.44 | 88.00 | 106.27 |
| 1045 | 76.79 | 15.18 | 0.24 | 3.54 | 88.79 | 106.37 |
| 1046 | 76.89 | 15.08 | 0.24 | 3.54 | 90.66 | 107.25 |
| 1047 | 76.98 | 15.28 | 0.33 | 3.54 | 97.45 | 110.24 |
| 1048 | 77.08 | 15.89 | 0.64 | 3.54 | 92.62 | 112.89 |
| 1049 | 77.18 | 22.67 | 0.68 | 3.54 | 84.18 | 115.44 |
| 1050 | 77.28 | 27.83 | 0.85 | 3.54 | 77.43 | 117.59 |
| 1051 | 77.37 | 29.55 | 1.20 | 3.63 | 80.05 | 119.52 |
| 1052 | 77.42 | 26.11 | 1.45 | 3.63 | 81.77 | 120.82 |
| 1053 | 77.42 | 30.47 | 1.49 | 3.73 | 80.76 | 121.59 |
| 1054 | 77.44 | 33.91 | 1.59 | 3.73 | 75.56 | 122.42 |
| 1055 | 77.48 | 37.45 | 1.79 | 3.73 | 72.09 | 123.26 |
| 1056 | 77.52 | 40.69 | 1.91 | 3.82 | 69.21 | 123.98 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1057 | 77.54 | 43.52 | 1.97 | 3.82 | 67.19 | 124.41 |
| 1058 | 77.57 | 44.43 | 2.03 | 3.82 | 67.13 | 124.60 |
| 1059 | 77.62 | 42.00 | 2.05 | 3.82 | 68.46 | 124.53 |
| 1060 | 77.65 | 40.18 | 1.97 | 3.82 | 70.82 | 124.28 |
| 1061 | 77.67 | 37.96 | 1.92 | 3.82 | 71.65 | 123.83 |
| 1062 | 77.71 | 37.85 | 1.76 | 3.82 | 71.90 | 123.46 |
| 1063 | 77.71 | 37.75 | 1.73 | 3.73 | 71.69 | 122.88 |
| 1064 | 77.76 | 35.32 | 1.55 | 3.82 | 73.39 | 122.11 |
| 1065 | 77.81 | 31.07 | 1.35 | 3.73 | 75.70 | 120.92 |
| 1066 | 77.90 | 28.74 | 1.16 | 3.82 | 78.54 | 119.86 |
| 1067 | 77.95 | 27.13 | 1.11 | 3.82 | 80.91 | 119.27 |
| 1068 | 78.01 | 25.91 | 1.14 | 3.82 | 82.45 | 118.93 |
| 1069 | 78.10 | 25.81 | 1.05 | 3.82 | 78.83 | 118.74 |
| 1070 | 78.16 | 30.87 | 0.98 | 3.82 | 63.10 | 119.02 |
| 1071 | 78.24 | 52.02 | 0.97 | 3.92 | 49.66 | 119.64 |
| 1072 | 78.29 | 63.76 | 1.00 | 3.92 | 39.63 | 120.51 |
| 1073 | 78.39 | 78.54 | 1.05 | 3.92 | 34.27 | 121.15 |
| 1074 | 78.47 | 89.78 | 1.06 | 3.92 | 31.50 | 121.96 |
| 1075 | 78.53 | 93.42 | 1.23 | 3.92 | 31.16 | 123.05 |
| 1076 | 78.62 | 94.84 | 1.51 | 3.92 | 32.43 | 124.23 |
| 1077 | 78.68 | 94.33 | 1.70 | 3.92 | 34.74 | 124.97 |
| 1078 | 78.69 | 84.31 | 1.76 | 3.92 | 35.67 | 125.92 |
| 1079 | 78.78 | 100.10 | 2.16 | 3.92 | 36.75 | 126.73 |
| 1080 | 78.81 | 97.27 | 2.34 | 3.92 | 38.10 | 127.66 |
| 1081 | 78.92 | 87.04 | 2.58 | 3.92 | 41.97 | 127.53 |
| 1082 | 79.03 | 71.36 | 2.29 | 3.92 | 46.36 | 126.48 |
| 1083 | 79.16 | 59.92 | 1.72 | 3.92 | 46.07 | 125.04 |
| 1084 | 79.26 | 73.78 | 1.52 | 4.01 | 39.53 | 124.49 |
| 1085 | 79.35 | 101.31 | 1.66 | 4.01 | 33.43 | 125.47 |
| 1086 | 79.45 | 116.80 | 2.02 | 4.01 | 30.53 | 126.98 |
| 1087 | 79.54 | 125.00 | 2.38 | 4.01 | 29.73 | 128.12 |
| 1088 | 79.64 | 130.77 | 2.50 | 4.01 | 29.16 | 128.84 |
| 1089 | 79.74 | 137.75 | 2.60 | 4.11 | 26.56 | 130.21 |
| 1090 | 79.88 | 191.60 | 3.45 | 4.21 | 23.02 | 131.59 |
| 1091 | 79.98 | 231.27 | 3.61 | 4.21 | 19.11 | 132.52 |
| 1092 | 80.12 | 263.76 | 3.19 | 4.21 | 17.02 | 132.38 |
| 1093 | 80.22 | 251.11 | 2.99 | 4.21 | 15.38 | 131.25 |
| 1094 | 80.36 | 244.53 | 2.16 | 4.21 | 14.66 | 129.87 |
| 1095 | 80.46 | 238.56 | 1.83 | 4.21 | 13.44 | 128.07 |
| 1096 | 80.60 | 233.20 | 1.51 | 4.21 | 12.69 | 126.55 |
| 1097 | 80.70 | 223.58 | 1.18 | 4.21 | 12.64 | 125.70 |
| 1098 | 80.83 | 214.78 | 1.39 | 4.30 | 13.47 | 125.59 |
| 1099 | 80.94 | 200.81 | 1.51 | 4.30 | 15.55 | 125.88 |
| 1100 | 81.01 | 167.71 | 1.47 | 4.21 | 17.35 | 125.78 |
| 1101 | 81.04 | 165.18 | 1.46 | 4.40 | 18.79 | 125.42 |
| 1102 | 81.09 | 159.61 | 1.41 | 4.40 | 19.43 | 125.22 |
| 1103 | 81.13 | 150.30 | 1.41 | 4.40 | 20.68 | 125.10 |
| 1104 | 81.18 | 138.66 | 1.47 | 4.40 | 23.02 | 125.16 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1105 | 81.23 | 121.46 | 1.58 | 4.40 | 26.12 | 125.34 |
| 1106 | 81.28 | 109.61 | 1.68 | 4.40 | 29.84 | 125.42 |
| 1107 | 81.33 | 96.96 | 1.71 | 4.40 | 33.69 | 125.60 |
| 1108 | 81.37 | 87.75 | 1.89 | 4.40 | 38.07 | 125.99 |
| 1109 | 81.42 | 80.57 | 2.17 | 4.40 | 42.18 | 126.42 |
| 1110 | 81.47 | 75.20 | 2.23 | 4.40 | 45.53 | 126.65 |
| 1111 | 81.52 | 71.36 | 2.25 | 4.40 | 47.80 | 126.68 |
| 1112 | 81.56 | 69.23 | 2.31 | 4.40 | 48.75 | 126.82 |
| 1113 | 81.61 | 72.17 | 2.40 | 4.40 | 49.37 | 126.98 |
| 1114 | 81.64 | 70.14 | 2.41 | 4.40 | 50.62 | 127.02 |
| 1115 | 81.70 | 63.87 | 2.40 | 4.40 | 54.71 | 126.72 |
| 1116 | 81.75 | 52.33 | 2.36 | 4.40 | 60.30 | 126.26 |
| 1117 | 81.79 | 46.76 | 2.28 | 4.40 | 66.56 | 125.58 |
| 1118 | 81.82 | 41.40 | 2.11 | 4.40 | 70.87 | 124.78 |
| 1119 | 81.86 | 37.35 | 1.89 | 4.40 | 74.63 | 123.79 |
| 1120 | 81.91 | 33.91 | 1.69 | 4.40 | 77.94 | 122.73 |
| 1121 | 81.95 | 30.57 | 1.50 | 4.40 | 81.32 | 121.53 |
| 1122 | 82.00 | 27.23 | 1.28 | 4.40 | 84.85 | 120.08 |
| 1123 | 82.09 | 23.99 | 1.02 | 4.40 | 88.86 | 118.54 |
| 1124 | 82.15 | 21.36 | 0.91 | 4.40 | 93.55 | 117.24 |
| 1125 | 82.19 | 19.43 | 0.86 | 4.49 | 97.46 | 116.22 |
| 1126 | 82.26 | 18.52 | 0.73 | 4.49 | 100.00 | 115.23 |
| 1127 | 82.34 | 17.00 | 0.65 | 4.49 | 100.00 | 114.22 |
| 1128 | 82.39 | 15.28 | 0.62 | 4.49 | 100.00 | 113.42 |
| 1129 | 82.48 | 14.47 | 0.58 | 4.59 | 100.00 | 112.80 |
| 1130 | 82.58 | 14.37 | 0.53 | 4.59 | 100.00 | 112.31 |
| 1131 | 82.62 | 14.88 | 0.51 | 4.59 | 100.00 | 111.87 |
| 1132 | 82.70 | 14.78 | 0.48 | 4.59 | 100.00 | 111.60 |
| 1133 | 82.77 | 14.78 | 0.47 | 4.59 | 100.00 | 111.26 |
| 1134 | 82.87 | 14.68 | 0.45 | 4.59 | 100.00 | 111.18 |
| 1135 | 82.96 | 15.59 | 0.46 | 4.68 | 100.00 | 111.16 |
| 1136 | 83.06 | 18.22 | 0.44 | 4.68 | 90.71 | 111.46 |
| 1137 | 83.16 | 20.65 | 0.45 | 4.68 | 79.92 | 111.87 |
| 1138 | 83.25 | 25.10 | 0.46 | 4.78 | 72.16 | 112.31 |
| 1139 | 83.34 | 27.43 | 0.46 | 4.78 | 66.55 | 112.65 |
| 1140 | 83.44 | 28.85 | 0.46 | 4.87 | 65.23 | 113.13 |
| 1141 | 83.54 | 28.54 | 0.53 | 4.87 | 65.41 | 113.57 |
| 1142 | 83.64 | 28.64 | 0.54 | 4.87 | 66.63 | 114.00 |
| 1143 | 83.73 | 28.44 | 0.56 | 4.87 | 69.35 | 114.34 |
| 1144 | 83.83 | 25.81 | 0.63 | 4.87 | 71.50 | 114.84 |
| 1145 | 83.85 | 27.33 | 0.67 | 5.07 | 74.13 | 115.50 |
| 1146 | 83.89 | 27.13 | 0.74 | 5.07 | 74.39 | 116.20 |
| 1147 | 83.94 | 27.73 | 0.82 | 5.07 | 76.21 | 117.47 |
| 1148 | 84.04 | 29.25 | 1.08 | 5.07 | 76.59 | 118.57 |
| 1149 | 84.09 | 30.57 | 1.13 | 5.07 | 76.69 | 119.51 |
| 1150 | 84.13 | 31.17 | 1.19 | 5.07 | 76.09 | 119.96 |
| 1151 | 84.18 | 31.88 | 1.26 | 5.07 | 76.24 | 120.30 |
| 1152 | 84.25 | 31.78 | 1.29 | 5.07 | 77.16 | 120.50 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1153 | 84.33 | 30.67 | 1.30 | 5.07 | 79.11 | 120.53 |
| 1154 | 84.37 | 29.25 | 1.31 | 5.07 | 81.52 | 120.45 |
| 1155 | 84.46 | 28.24 | 1.30 | 5.16 | 83.35 | 120.16 |
| 1156 | 84.52 | 27.33 | 1.20 | 5.16 | 84.37 | 119.78 |
| 1157 | 84.57 | 26.72 | 1.15 | 5.16 | 84.59 | 119.32 |
| 1158 | 84.67 | 26.42 | 1.10 | 5.16 | 84.79 | 119.04 |
| 1159 | 84.71 | 26.21 | 1.08 | 5.16 | 85.52 | 118.94 |
| 1160 | 84.81 | 25.61 | 1.12 | 5.16 | 87.61 | 119.09 |
| 1161 | 84.86 | 24.70 | 1.19 | 5.16 | 90.53 | 119.33 |
| 1162 | 84.91 | 23.99 | 1.23 | 5.16 | 93.50 | 119.49 |
| 1163 | 85.00 | 23.28 | 1.24 | 5.16 | 95.77 | 119.52 |
| 1164 | 85.05 | 22.77 | 1.24 | 5.16 | 97.25 | 119.32 |
| 1165 | 85.15 | 22.17 | 1.16 | 5.16 | 97.82 | 118.97 |
| 1166 | 85.19 | 21.86 | 1.09 | 5.16 | 97.66 | 118.30 |
| 1167 | 85.29 | 21.15 | 0.96 | 5.16 | 97.29 | 117.62 |
| 1168 | 85.35 | 20.75 | 0.90 | 5.16 | 97.56 | 116.95 |
| 1169 | 85.42 | 20.04 | 0.86 | 5.16 | 98.84 | 116.52 |
| 1170 | 85.48 | 19.23 | 0.83 | 5.16 | 100.00 | 116.19 |
| 1171 | 85.55 | 18.72 | 0.81 | 5.26 | 100.00 | 115.89 |
| 1172 | 85.63 | 18.12 | 0.79 | 5.26 | 100.00 | 115.64 |
| 1173 | 85.68 | 17.51 | 0.78 | 5.26 | 100.00 | 115.45 |
| 1174 | 85.77 | 17.00 | 0.77 | 5.26 | 100.00 | 115.34 |
| 1175 | 85.82 | 16.80 | 0.77 | 5.26 | 100.00 | 115.39 |
| 1176 | 85.89 | 17.10 | 0.80 | 5.26 | 100.00 | 115.55 |
| 1177 | 85.96 | 18.12 | 0.81 | 5.26 | 100.00 | 115.74 |
| 1178 | 86.03 | 19.53 | 0.79 | 5.26 | 98.42 | 115.81 |
| 1179 | 86.11 | 21.25 | 0.76 | 5.26 | 92.88 | 115.75 |
| 1180 | 86.16 | 22.17 | 0.74 | 5.26 | 88.74 | 115.62 |
| 1181 | 86.25 | 22.67 | 0.72 | 5.26 | 89.87 | 115.47 |
| 1182 | 86.36 | 19.94 | 0.73 | 5.26 | 94.60 | 114.88 |
| 1183 | 86.50 | 17.10 | 0.62 | 5.26 | 100.00 | 114.26 |
| 1184 | 86.51 | 17.21 | 0.61 | 5.26 | 100.00 | 113.63 |
| 1185 | 86.52 | 17.21 | 0.60 | 5.26 | 100.00 | 113.28 |
| 1186 | 86.57 | 17.31 | 0.54 | 5.26 | 100.00 | 112.52 |
| 1187 | 86.65 | 17.31 | 0.44 | 5.35 | 96.58 | 111.56 |
| 1188 | 86.71 | 17.31 | 0.41 | 5.35 | 94.30 | 110.68 |
| 1189 | 86.80 | 17.21 | 0.38 | 5.35 | 94.07 | 110.11 |
| 1190 | 86.90 | 16.50 | 0.35 | 5.45 | 95.37 | 109.44 |
| 1191 | 86.99 | 15.49 | 0.32 | 5.45 | 97.33 | 108.73 |
| 1192 | 87.04 | 15.08 | 0.30 | 5.45 | 98.63 | 108.13 |
| 1193 | 87.14 | 14.98 | 0.28 | 5.45 | 98.41 | 107.81 |
| 1194 | 87.19 | 15.18 | 0.28 | 5.45 | 97.17 | 107.78 |
| 1195 | 87.28 | 15.69 | 0.29 | 5.54 | 95.63 | 108.26 |
| 1196 | 87.38 | 16.50 | 0.33 | 5.54 | 93.79 | 108.83 |
| 1197 | 87.43 | 17.10 | 0.34 | 5.54 | 91.88 | 109.36 |
| 1198 | 87.52 | 17.71 | 0.35 | 5.54 | 89.95 | 109.63 |
| 1199 | 87.61 | 18.22 | 0.36 | 5.64 | 88.28 | 109.78 |
| 1200 | 87.66 | 18.52 | 0.36 | 5.64 | 87.04 | 109.79 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1201 | 87.76 | 18.62 | 0.35 | 5.64 | 86.65 | 109.67 |
| 1202 | 87.84 | 18.32 | 0.34 | 5.64 | 86.71 | 109.46 |
| 1203 | 87.91 | 18.12 | 0.33 | 5.64 | 87.47 | 109.24 |
| 1204 | 88.00 | 17.71 | 0.32 | 5.64 | 88.37 | 109.00 |
| 1205 | 88.11 | 17.31 | 0.31 | 5.73 | 89.54 | 108.84 |
| 1206 | 88.19 | 17.10 | 0.31 | 5.73 | 90.39 | 108.72 |
| 1207 | 88.25 | 17.00 | 0.31 | 5.73 | 90.81 | 108.62 |
| 1208 | 88.34 | 16.90 | 0.30 | 5.73 | 90.64 | 108.42 |
| 1209 | 88.44 | 16.90 | 0.29 | 5.83 | 90.17 | 108.15 |
| 1210 | 88.54 | 16.90 | 0.28 | 5.83 | 89.58 | 107.90 |
| 1211 | 88.64 | 16.90 | 0.27 | 5.83 | 89.37 | 107.73 |
| 1212 | 88.72 | 16.80 | 0.27 | 5.93 | 89.61 | 107.69 |
| 1213 | 88.82 | 16.70 | 0.28 | 5.93 | 90.07 | 107.73 |
| 1214 | 88.91 | 16.70 | 0.28 | 5.93 | 90.83 | 107.82 |
| 1215 | 89.01 | 16.50 | 0.28 | 5.93 | 91.58 | 107.90 |
| 1216 | 89.10 | 16.40 | 0.29 | 5.93 | 92.45 | 107.97 |
| 1217 | 89.19 | 16.30 | 0.29 | 6.02 | 93.00 | 107.82 |
| 1218 | 89.30 | 15.99 | 0.27 | 6.02 | 91.00 | 106.79 |
| 1219 | 89.39 | 16.09 | 0.18 | 6.12 | 89.02 | 106.17 |
| 1220 | 89.49 | 16.60 | 0.23 | 6.12 | 88.22 | 106.44 |
| 1221 | 89.59 | 16.90 | 0.29 | 6.12 | 90.32 | 107.86 |
| 1222 | 89.69 | 16.95 | 0.32 | 6.12 | 91.89 | 108.72 |
| 1223 | 89.73 | 17.00 | 0.33 | 6.21 | 90.02 | 109.17 |
| 1224 | 89.78 | 18.83 | 0.34 | 6.31 | 87.19 | 109.42 |
| 1225 | 89.83 | 19.33 | 0.34 | 6.31 | 84.28 | 109.67 |
| 1226 | 89.88 | 19.64 | 0.35 | 6.31 | 83.80 | 109.89 |
| 1227 | 89.93 | 19.64 | 0.36 | 6.31 | 83.63 | 110.18 |
| 1228 | 90.00 | 20.04 | 0.38 | 6.40 | 83.30 | 110.59 |
| 1229 | 90.07 | 20.75 | 0.41 | 6.40 | 82.14 | 111.03 |
| 1230 | 90.12 | 21.56 | 0.42 | 6.40 | 81.06 | 111.60 |
| 1231 | 90.22 | 22.27 | 0.46 | 6.40 | 80.51 | 112.20 |
| 1232 | 90.27 | 22.67 | 0.50 | 6.40 | 80.53 | 113.17 |
| 1233 | 90.36 | 23.89 | 0.60 | 6.40 | 77.53 | 114.19 |
| 1234 | 90.46 | 28.14 | 0.65 | 6.50 | 73.54 | 115.05 |
| 1235 | 90.50 | 30.06 | 0.66 | 6.50 | 70.62 | 115.50 |
| 1236 | 90.61 | 29.35 | 0.68 | 6.59 | 70.53 | 115.62 |
| 1237 | 90.66 | 28.74 | 0.68 | 6.59 | 71.78 | 115.45 |
| 1238 | 90.75 | 27.73 | 0.63 | 6.59 | 73.00 | 114.95 |
| 1239 | 90.84 | 26.11 | 0.57 | 6.59 | 74.84 | 114.27 |
| 1240 | 90.89 | 24.39 | 0.54 | 6.59 | 76.93 | 113.58 |
| 1241 | 90.99 | 23.38 | 0.50 | 6.59 | 79.28 | 113.09 |
| 1242 | 91.04 | 22.37 | 0.49 | 6.69 | 81.25 | 112.68 |
| 1243 | 91.14 | 21.46 | 0.48 | 6.69 | 83.54 | 112.40 |
| 1244 | 91.22 | 20.65 | 0.47 | 6.79 | 85.84 | 112.13 |
| 1245 | 91.28 | 19.84 | 0.46 | 6.79 | 88.45 | 111.80 |
| 1246 | 91.37 | 18.72 | 0.44 | 6.79 | 89.92 | 111.48 |
| 1247 | 91.47 | 18.93 | 0.42 | 6.88 | 90.14 | 111.12 |
| 1248 | 91.61 | 19.03 | 0.40 | 6.88 | 88.70 | 110.98 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1249 | 91.71 | 19.53 | 0.41 | 6.88 | 88.08 | 110.93 |
| 1250 | 91.81 | 19.33 | 0.41 | 6.88 | 87.81 | 110.97 |
| 1251 | 91.87 | 19.33 | 0.41 | 6.98 | 88.02 | 110.84 |
| 1252 | 92.00 | 19.13 | 0.39 | 6.98 | 86.12 | 110.10 |
| 1253 | 92.10 | 19.38 | 0.29 | 6.98 | 84.52 | 109.49 |
| 1254 | 92.20 | 19.43 | 0.32 | 7.07 | 83.14 | 109.22 |
| 1255 | 92.33 | 19.74 | 0.35 | 7.07 | 83.97 | 109.76 |
| 1256 | 92.38 | 19.79 | 0.37 | 7.07 | 84.45 | 110.16 |
| 1257 | 92.43 | 19.84 | 0.37 | 7.26 | 84.47 | 110.37 |
| 1258 | 92.48 | 20.14 | 0.38 | 7.26 | 85.19 | 110.58 |
| 1259 | 92.56 | 19.64 | 0.40 | 7.36 | 86.02 | 110.74 |
| 1260 | 92.63 | 19.53 | 0.40 | 7.36 | 87.16 | 110.82 |
| 1261 | 92.67 | 19.43 | 0.40 | 7.36 | 87.45 | 110.81 |
| 1262 | 92.72 | 19.43 | 0.40 | 7.36 | 87.55 | 110.79 |
| 1263 | 92.77 | 19.43 | 0.40 | 7.36 | 87.20 | 110.81 |
| 1264 | 92.86 | 19.74 | 0.40 | 7.46 | 86.63 | 110.88 |
| 1265 | 92.92 | 20.04 | 0.41 | 7.46 | 86.16 | 111.05 |
| 1266 | 92.97 | 20.14 | 0.42 | 7.55 | 86.69 | 111.44 |
| 1267 | 93.05 | 20.14 | 0.46 | 7.55 | 87.17 | 111.82 |
| 1268 | 93.10 | 20.45 | 0.47 | 7.55 | 87.05 | 112.15 |
| 1269 | 93.16 | 20.95 | 0.48 | 7.55 | 85.70 | 112.28 |
| 1270 | 93.25 | 21.56 | 0.48 | 7.65 | 83.79 | 112.35 |
| 1271 | 93.35 | 22.27 | 0.47 | 7.65 | 80.44 | 112.40 |
| 1272 | 93.40 | 24.19 | 0.47 | 7.65 | 78.94 | 112.28 |
| 1273 | 93.49 | 22.77 | 0.45 | 7.74 | 78.47 | 112.15 |
| 1274 | 93.56 | 22.47 | 0.45 | 7.74 | 79.73 | 111.99 |
| 1275 | 93.64 | 22.57 | 0.45 | 7.74 | 79.38 | 112.05 |
| 1276 | 93.73 | 23.28 | 0.46 | 7.74 | 78.34 | 112.52 |
| 1277 | 93.83 | 24.70 | 0.52 | 7.84 | 76.63 | 113.28 |
| 1278 | 93.88 | 26.42 | 0.57 | 8.03 | 75.40 | 114.39 |
| 1279 | 93.97 | 27.83 | 0.67 | 8.03 | 75.84 | 115.13 |
| 1280 | 94.07 | 26.42 | 0.70 | 8.03 | 78.80 | 115.71 |
| 1281 | 94.17 | 24.70 | 0.75 | 8.03 | 82.08 | 116.26 |
| 1282 | 94.26 | 25.81 | 0.86 | 8.03 | 80.59 | 116.63 |
| 1283 | 94.36 | 29.25 | 0.79 | 8.03 | 81.16 | 117.93 |
| 1284 | 94.45 | 28.24 | 1.17 | 8.03 | 80.92 | 119.20 |
| 1285 | 94.55 | 30.57 | 1.33 | 8.12 | 72.58 | 120.82 |
| 1286 | 94.64 | 48.48 | 1.34 | 8.12 | 58.20 | 121.86 |
| 1287 | 94.72 | 65.99 | 1.33 | 8.03 | 49.16 | 122.39 |
| 1288 | 94.74 | 64.98 | 1.34 | 8.03 | 41.37 | 122.92 |
| 1289 | 94.77 | 90.28 | 1.36 | 8.31 | 37.18 | 123.45 |
| 1290 | 94.85 | 97.87 | 1.44 | 8.31 | 33.27 | 124.10 |
| 1291 | 94.90 | 103.54 | 1.52 | 8.31 | 32.34 | 124.67 |
| 1292 | 94.95 | 106.48 | 1.62 | 8.31 | 32.54 | 125.32 |
| 1293 | 95.01 | 105.57 | 1.83 | 8.31 | 34.52 | 126.41 |
| 1294 | 95.09 | 101.62 | 2.33 | 8.31 | 37.59 | 127.40 |
| 1295 | 95.14 | 94.94 | 2.54 | 8.31 | 42.18 | 128.49 |
| 1296 | 95.23 | 86.54 | 3.07 | 8.31 | 47.11 | 129.05 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1297 | 95.29 | 77.43 | 3.22 | 8.31 | 52.64 | 129.44 |
| 1298 | 95.38 | 69.84 | 3.34 | 8.31 | 57.15 | 129.42 |
| 1299 | 95.43 | 65.69 | 3.35 | 8.31 | 59.57 | 129.33 |
| 1300 | 95.52 | 66.70 | 3.28 | 8.31 | 59.18 | 129.26 |
| 1301 | 95.57 | 70.75 | 3.23 | 8.31 | 56.95 | 129.08 |
| 1302 | 95.67 | 72.87 | 2.99 | 8.31 | 55.03 | 128.58 |
| 1303 | 95.77 | 69.74 | 2.61 | 8.22 | 56.22 | 127.67 |
| 1304 | 95.86 | 56.58 | 2.39 | 8.22 | 62.27 | 126.89 |
| 1305 | 95.95 | 44.23 | 2.56 | 8.22 | 64.67 | 126.27 |
| 1306 | 96.03 | 57.64 | 2.16 | 8.22 | 71.02 | 125.95 |
| 1307 | 96.11 | 37.96 | 2.38 | 8.31 | 66.58 | 126.41 |
| 1308 | 96.20 | 58.70 | 2.78 | 8.51 | 62.59 | 127.77 |
| 1309 | 96.30 | 80.57 | 3.26 | 8.60 | 51.74 | 129.50 |
| 1310 | 96.39 | 100.81 | 3.60 | 8.60 | 44.40 | 130.84 |
| 1311 | 96.50 | 122.37 | 3.84 | 8.70 | 38.62 | 131.75 |
| 1312 | 96.59 | 145.34 | 3.92 | 8.60 | 32.42 | 131.58 |
| 1313 | 96.69 | 166.80 | 2.74 | 8.60 | 26.91 | 130.69 |
| 1314 | 96.78 | 182.08 | 2.25 | 8.60 | 22.17 | 129.05 |
| 1315 | 96.87 | 191.29 | 1.93 | 8.60 | 20.37 | 128.23 |
| 1316 | 96.98 | 184.11 | 1.94 | 8.60 | 20.02 | 127.84 |
| 1317 | 97.02 | 180.06 | 1.94 | 8.51 | 21.02 | 127.82 |
| 1318 | 97.06 | 168.82 | 2.00 | 8.70 | 21.61 | 128.14 |
| 1319 | 97.12 | 179.96 | 2.21 | 8.70 | 22.39 | 128.67 |
| 1320 | 97.16 | 177.63 | 2.41 | 8.70 | 23.05 | 129.34 |
| 1321 | 97.21 | 172.97 | 2.61 | 8.70 | 24.45 | 129.98 |
| 1322 | 97.27 | 170.04 | 2.93 | 8.60 | 25.91 | 130.63 |
| 1323 | 97.33 | 168.12 | 3.21 | 8.60 | 27.09 | 131.15 |
| 1324 | 97.40 | 166.09 | 3.29 | 8.60 | 27.88 | 131.39 |
| 1325 | 97.45 | 163.36 | 3.29 | 8.60 | 28.36 | 131.45 |
| 1326 | 97.50 | 161.94 | 3.32 | 8.60 | 29.21 | 131.67 |
| 1327 | 97.58 | 158.50 | 3.65 | 8.60 | 30.75 | 131.92 |
| 1328 | 97.65 | 146.66 | 3.76 | 8.51 | 32.97 | 132.07 |
| 1329 | 97.69 | 135.32 | 3.76 | 8.51 | 35.59 | 131.79 |
| 1330 | 97.74 | 120.95 | 3.57 | 8.51 | 38.21 | 131.25 |
| 1331 | 97.81 | 108.60 | 3.32 | 8.51 | 40.74 | 130.65 |
| 1332 | 97.88 | 101.62 | 3.24 | 8.51 | 42.61 | 130.19 |
| 1333 | 97.93 | 98.68 | 3.18 | 8.60 | 40.27 | 130.07 |
| 1334 | 98.03 | 125.30 | 2.99 | 8.79 | 31.75 | 130.21 |
| 1335 | 98.15 | 191.80 | 2.67 | 9.08 | 23.53 | 130.24 |
| 1336 | 98.21 | 230.36 | 2.44 | 9.08 | 17.43 | 129.79 |
| 1337 | 98.32 | 262.75 | 1.96 | 9.08 | 13.84 | 129.24 |
| 1338 | 98.42 | 299.09 | 1.85 | 9.08 | 10.93 | 128.66 |
| 1339 | 98.47 | 343.32 | 1.71 | 9.08 | 5.00 | 127.75 |
| 1340 | 98.57 | 405.97 | 1.08 | 9.18 | 5.00 | 126.30 |
| 1341 | 98.70 | 416.60 | 0.89 | 9.18 | 4.53 | 124.66 |
| 1342 | 98.78 | 412.55 | 0.91 | 9.27 | 4.67 | 124.49 |
| 1343 | 98.85 | 382.49 | 1.03 | 9.27 | 5.00 | 124.66 |
| 1344 | 98.86 | 321.86 | 1.03 | 9.08 | 5.00 | 124.72 |

**:: Field input data :: (continued)**

| Point ID | Depth (ft) | $q_c$ (tsf) | $f_s$ (tsf) | u (tsf) | Fines content (%) | Unit weight (pcf) |
|---|---|---|---|---|---|---|
| 1345 | 98.92 | 308.60 | 1.04 | 9.08 | 5.00 | 124.62 |
| 1346 | 98.98 | 337.35 | 1.04 | 9.18 | 5.00 | 124.75 |
| 1347 | 99.03 | 309.11 | 1.10 | 9.08 | 5.00 | 125.36 |
| 1348 | 99.11 | 281.37 | 1.35 | 8.98 | 5.00 | 126.14 |
| 1349 | 99.18 | 254.05 | 1.55 | 8.98 | 12.62 | 127.01 |
| 1350 | 99.23 | 230.16 | 1.76 | 8.89 | 15.59 | 128.18 |
| 1351 | 99.32 | 209.41 | 2.34 | 8.79 | 19.03 | 129.37 |
| 1352 | 99.37 | 189.57 | 2.77 | 8.79 | 22.90 | 130.41 |
| 1353 | 99.45 | 168.82 | 3.08 | 8.79 | 26.41 | 130.81 |
| 1354 | 99.56 | 152.93 | 3.11 | 8.79 | 29.20 | 131.00 |
| 1355 | 99.64 | 149.59 | 3.27 | 8.79 | 31.66 | 131.22 |
| 1356 | 99.71 | 139.27 | 3.58 | 8.79 | 34.06 | 131.59 |
| 1357 | 99.75 | 130.87 | 3.81 | 8.89 | 36.97 | 131.47 |
| 1358 | 99.90 | 114.27 | 3.39 | 8.79 | 40.25 | 131.23 |
| 1359 | 99.95 | 103.44 | 3.58 | 8.70 | 45.52 | 131.15 |
| 1360 | 100.04 | 87.25 | 4.17 | 8.70 | 42.09 | 132.11 |
| 1361 | 100.14 | 157.89 | 4.41 | 8.98 | 32.87 | 133.35 |
| 1362 | 100.14 | 232.39 | 4.40 | 8.98 | 26.10 | 134.08 |
| 1363 | 100.15 | 224.29 | 4.36 | 9.08 | 23.29 | 134.83 |
| 1364 | 100.19 | 250.30 | 5.18 | 9.18 | 22.57 | 136.06 |
| 1365 | 100.21 | 301.41 | 6.43 | 9.27 | 21.06 | 137.28 |
| 1366 | 100.24 | 342.10 | 7.12 | 9.27 | 14.70 | 135.60 |
| 1367 | 100.28 | 411.74 | 0.00 | 9.46 | 8.11 | 131.27 |
| 1368 | 100.31 | 477.42 | 0.00 | 9.56 | N/A | 87.36 |
| 1369 | 100.33 | 523.38 | 0.00 | 9.56 | N/A | 87.36 |
| 1370 | 100.38 | 524.49 | 0.00 | 9.56 | N/A | 87.36 |
| 1371 | 100.39 | 525.60 | 0.00 | 9.56 | N/A | 87.36 |
| 1372 | 100.43 | 529.15 | 0.00 | 9.65 | N/A | 87.36 |
| 1373 | 100.48 | 540.18 | 0.00 | 9.65 | N/A | 87.36 |
| 1374 | 100.53 | 496.96 | 0.00 | 9.56 | N/A | 87.36 |
| 1375 | 100.57 | 490.58 | 0.00 | 9.65 | N/A | 87.36 |
| 1376 | 100.60 | 500.40 | 0.00 | 9.94 | N/A | 87.36 |

**Abbreviations**

| | |
|---|---|
| Depth: | Depth from free surface, at which CPT was performed (ft) |
| $q_c$: | Measured cone resistance (tsf) |
| $f_s$: | Sleeve friction resistance (tsf) |
| u: | Pore pressure (tsf) |
| Fines content: | Percentage of fines in soil (%) |
| Unit weight: | Bulk soil unit weight (pcf) |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data ::**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.04 | 0.00 | 0.00 | 0.00 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 2 | 0.10 | 0.00 | 0.00 | 0.00 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 3 | 0.11 | 0.00 | 0.00 | 0.00 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 4 | 0.16 | 0.01 | 0.00 | 0.01 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 5 | 0.19 | 0.01 | 0.00 | 0.01 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 6 | 0.24 | 0.01 | 0.00 | 0.01 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 7 | 0.31 | 0.01 | 0.00 | 0.01 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 8 | 0.38 | 0.02 | 0.00 | 0.02 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 9 | 0.43 | 0.02 | 0.00 | 0.02 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 10 | 0.49 | 0.02 | 0.00 | 0.02 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 11 | 0.58 | 0.03 | 0.00 | 0.03 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 12 | 0.63 | 0.03 | 0.00 | 0.03 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 13 | 0.67 | 0.03 | 0.00 | 0.03 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | No |
| 14 | 0.72 | 0.03 | 0.00 | 0.03 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | Yes |
| 15 | 0.72 | 0.03 | 0.00 | 0.03 | 1.00 | 0.410 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | Yes |
| 16 | 0.84 | 0.04 | 0.00 | 0.04 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | Yes |
| 17 | 0.96 | 0.05 | 0.00 | 0.05 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | Yes |
| 18 | 1.06 | 0.05 | 0.00 | 0.05 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | Yes |
| 19 | 1.24 | 0.06 | 0.00 | 0.06 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | Yes |
| 20 | 1.30 | 0.07 | 0.00 | 0.07 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | Yes |
| 21 | 1.48 | 0.08 | 0.00 | 0.08 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | Yes |
| 22 | 1.59 | 0.08 | 0.00 | 0.08 | 1.00 | 0.409 | 1.36 | 0.301 | 1.00 | 1.00 | 2.000 | Yes |
| 23 | 1.69 | 0.09 | 0.00 | 0.09 | 1.00 | 0.409 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | Yes |
| 24 | 1.69 | 0.09 | 0.00 | 0.09 | 1.00 | 0.409 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | Yes |
| 25 | 1.74 | 0.09 | 0.00 | 0.09 | 1.00 | 0.409 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | Yes |
| 26 | 1.79 | 0.09 | 0.00 | 0.09 | 1.00 | 0.409 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 27 | 1.84 | 0.09 | 0.00 | 0.09 | 1.00 | 0.409 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 28 | 1.88 | 0.10 | 0.00 | 0.10 | 1.00 | 0.409 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 29 | 1.93 | 0.10 | 0.00 | 0.10 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 30 | 1.99 | 0.10 | 0.00 | 0.10 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 31 | 2.03 | 0.11 | 0.00 | 0.11 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 32 | 2.08 | 0.11 | 0.00 | 0.11 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 33 | 2.13 | 0.11 | 0.00 | 0.11 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 34 | 2.22 | 0.12 | 0.00 | 0.12 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 35 | 2.27 | 0.12 | 0.00 | 0.12 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 36 | 2.33 | 0.12 | 0.00 | 0.12 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 37 | 2.42 | 0.13 | 0.00 | 0.13 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 38 | 2.48 | 0.13 | 0.00 | 0.13 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 39 | 2.56 | 0.13 | 0.00 | 0.13 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 40 | 2.65 | 0.14 | 0.00 | 0.14 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 41 | 2.72 | 0.14 | 0.00 | 0.14 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 42 | 2.80 | 0.15 | 0.00 | 0.15 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 43 | 2.89 | 0.15 | 0.00 | 0.15 | 1.00 | 0.408 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 44 | 2.94 | 0.16 | 0.00 | 0.16 | 1.00 | 0.407 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 45 | 3.04 | 0.16 | 0.00 | 0.16 | 0.99 | 0.407 | 1.36 | 0.300 | 1.00 | 1.00 | 2.000 | No |
| 46 | 3.14 | 0.17 | 0.00 | 0.17 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 47 | 3.23 | 0.17 | 0.00 | 0.17 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 48 | 3.31 | 0.18 | 0.00 | 0.18 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 49 | 3.37 | 0.18 | 0.00 | 0.18 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 50 | 3.48 | 0.18 | 0.00 | 0.18 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 51 | 3.57 | 0.19 | 0.00 | 0.19 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 52 | 3.65 | 0.19 | 0.00 | 0.19 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 53 | 3.71 | 0.20 | 0.00 | 0.20 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 54 | 3.82 | 0.20 | 0.00 | 0.20 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 55 | 3.91 | 0.21 | 0.00 | 0.21 | 0.99 | 0.407 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 56 | 4.00 | 0.21 | 0.00 | 0.21 | 0.99 | 0.406 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 57 | 4.10 | 0.22 | 0.00 | 0.22 | 0.99 | 0.406 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 58 | 4.19 | 0.22 | 0.00 | 0.22 | 0.99 | 0.406 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 59 | 4.26 | 0.23 | 0.00 | 0.23 | 0.99 | 0.406 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 60 | 4.35 | 0.23 | 0.00 | 0.23 | 0.99 | 0.406 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 61 | 4.44 | 0.23 | 0.00 | 0.23 | 0.99 | 0.406 | 1.36 | 0.299 | 1.00 | 1.00 | 2.000 | No |
| 62 | 4.52 | 0.24 | 0.00 | 0.24 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 63 | 4.53 | 0.24 | 0.00 | 0.24 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 64 | 4.58 | 0.24 | 0.00 | 0.24 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 65 | 4.63 | 0.24 | 0.00 | 0.24 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 66 | 4.68 | 0.25 | 0.00 | 0.25 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 67 | 4.72 | 0.25 | 0.00 | 0.25 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 68 | 4.77 | 0.25 | 0.00 | 0.25 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 69 | 4.82 | 0.26 | 0.00 | 0.26 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 70 | 4.88 | 0.26 | 0.00 | 0.26 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 71 | 4.96 | 0.26 | 0.00 | 0.26 | 0.99 | 0.406 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 72 | 5.01 | 0.27 | 0.00 | 0.27 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 73 | 5.08 | 0.27 | 0.00 | 0.27 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 74 | 5.16 | 0.27 | 0.00 | 0.27 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 75 | 5.21 | 0.28 | 0.00 | 0.28 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 76 | 5.30 | 0.28 | 0.00 | 0.28 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 77 | 5.37 | 0.29 | 0.00 | 0.29 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 78 | 5.45 | 0.29 | 0.00 | 0.29 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 79 | 5.52 | 0.29 | 0.00 | 0.29 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 80 | 5.59 | 0.30 | 0.00 | 0.30 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 81 | 5.65 | 0.30 | 0.00 | 0.30 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 82 | 5.74 | 0.31 | 0.00 | 0.31 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 83 | 5.83 | 0.31 | 0.00 | 0.31 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 84 | 5.89 | 0.31 | 0.00 | 0.31 | 0.99 | 0.405 | 1.36 | 0.298 | 1.00 | 1.00 | 2.000 | No |
| 85 | 5.97 | 0.32 | 0.00 | 0.32 | 0.99 | 0.405 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 86 | 6.07 | 0.32 | 0.00 | 0.32 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 87 | 6.12 | 0.33 | 0.00 | 0.33 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 88 | 6.22 | 0.33 | 0.00 | 0.33 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 89 | 6.28 | 0.34 | 0.00 | 0.34 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 90 | 6.36 | 0.34 | 0.00 | 0.34 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 91 | 6.46 | 0.35 | 0.00 | 0.35 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 92 | 6.52 | 0.35 | 0.00 | 0.35 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 93 | 6.60 | 0.35 | 0.00 | 0.35 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 94 | 6.70 | 0.36 | 0.00 | 0.36 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 95 | 6.76 | 0.36 | 0.00 | 0.36 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | Yes |
| 96 | 6.84 | 0.37 | 0.00 | 0.37 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97 | 6.94 | 0.37 | 0.00 | 0.37 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | Yes |
| 98 | 7.03 | 0.38 | 0.00 | 0.38 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | Yes |
| 99 | 7.13 | 0.38 | 0.00 | 0.38 | 0.99 | 0.404 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | Yes |
| 100 | 7.19 | 0.38 | 0.00 | 0.38 | 0.99 | 0.403 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | Yes |
| 101 | 7.32 | 0.39 | 0.00 | 0.39 | 0.98 | 0.403 | 1.36 | 0.297 | 1.00 | 1.00 | 2.000 | No |
| 102 | 7.42 | 0.39 | 0.00 | 0.39 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 103 | 7.49 | 0.40 | 0.00 | 0.40 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 104 | 7.57 | 0.40 | 0.00 | 0.40 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 105 | 7.66 | 0.40 | 0.00 | 0.40 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 106 | 7.76 | 0.41 | 0.00 | 0.41 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 107 | 7.77 | 0.41 | 0.00 | 0.41 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 108 | 7.78 | 0.41 | 0.00 | 0.41 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 109 | 7.82 | 0.41 | 0.00 | 0.41 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 110 | 7.87 | 0.41 | 0.00 | 0.41 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 111 | 7.92 | 0.42 | 0.00 | 0.42 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 112 | 7.97 | 0.42 | 0.00 | 0.42 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 113 | 8.01 | 0.42 | 0.00 | 0.42 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 114 | 8.06 | 0.42 | 0.00 | 0.42 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 115 | 8.11 | 0.42 | 0.00 | 0.42 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 116 | 8.20 | 0.43 | 0.00 | 0.43 | 0.98 | 0.403 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 117 | 8.26 | 0.43 | 0.00 | 0.43 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 118 | 8.35 | 0.44 | 0.00 | 0.44 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 119 | 8.40 | 0.44 | 0.00 | 0.44 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 120 | 8.49 | 0.44 | 0.00 | 0.44 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 121 | 8.54 | 0.44 | 0.00 | 0.44 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 122 | 8.64 | 0.45 | 0.00 | 0.45 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 123 | 8.69 | 0.45 | 0.00 | 0.45 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 124 | 8.79 | 0.46 | 0.00 | 0.46 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 125 | 8.84 | 0.46 | 0.00 | 0.46 | 0.98 | 0.402 | 1.36 | 0.296 | 1.00 | 1.00 | 2.000 | No |
| 126 | 8.93 | 0.46 | 0.00 | 0.46 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 127 | 9.03 | 0.47 | 0.00 | 0.47 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 128 | 9.08 | 0.47 | 0.00 | 0.47 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 129 | 9.11 | 0.47 | 0.00 | 0.47 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 130 | 9.12 | 0.47 | 0.00 | 0.47 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 131 | 9.17 | 0.48 | 0.00 | 0.48 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 132 | 9.22 | 0.48 | 0.00 | 0.48 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 133 | 9.31 | 0.48 | 0.00 | 0.48 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 134 | 9.36 | 0.49 | 0.00 | 0.49 | 0.98 | 0.402 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 135 | 9.40 | 0.49 | 0.00 | 0.49 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 136 | 9.46 | 0.49 | 0.00 | 0.49 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 137 | 9.51 | 0.49 | 0.00 | 0.49 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 138 | 9.55 | 0.50 | 0.00 | 0.50 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 139 | 9.61 | 0.50 | 0.00 | 0.50 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 140 | 9.69 | 0.50 | 0.00 | 0.50 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 141 | 9.74 | 0.51 | 0.00 | 0.51 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 142 | 9.81 | 0.51 | 0.00 | 0.51 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 143 | 9.89 | 0.51 | 0.00 | 0.51 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 144 | 9.94 | 0.52 | 0.00 | 0.52 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 145 | 10.03 | 0.52 | 0.00 | 0.52 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 146 | 10.08 | 0.52 | 0.00 | 0.52 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 147 | 10.18 | 0.53 | 0.00 | 0.53 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 148 | 10.23 | 0.53 | 0.00 | 0.53 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 149 | 10.33 | 0.54 | 0.00 | 0.54 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 150 | 10.40 | 0.54 | 0.00 | 0.54 | 0.98 | 0.401 | 1.36 | 0.295 | 1.00 | 1.00 | 2.000 | No |
| 151 | 10.47 | 0.54 | 0.00 | 0.54 | 0.98 | 0.401 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 152 | 10.51 | 0.55 | 0.00 | 0.55 | 0.98 | 0.401 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 153 | 10.56 | 0.55 | 0.00 | 0.55 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 154 | 10.61 | 0.55 | 0.00 | 0.55 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 155 | 10.67 | 0.55 | 0.00 | 0.55 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 156 | 10.75 | 0.56 | 0.00 | 0.56 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 157 | 10.80 | 0.56 | 0.00 | 0.56 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 158 | 10.85 | 0.56 | 0.00 | 0.56 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 159 | 10.90 | 0.57 | 0.00 | 0.57 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 160 | 11.00 | 0.57 | 0.00 | 0.57 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 161 | 11.05 | 0.58 | 0.00 | 0.58 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 162 | 11.14 | 0.58 | 0.00 | 0.58 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 163 | 11.21 | 0.58 | 0.00 | 0.58 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 164 | 11.29 | 0.59 | 0.00 | 0.59 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 165 | 11.38 | 0.59 | 0.00 | 0.59 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 166 | 11.46 | 0.60 | 0.00 | 0.60 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 167 | 11.52 | 0.60 | 0.00 | 0.60 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 168 | 11.60 | 0.61 | 0.00 | 0.61 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 169 | 11.67 | 0.61 | 0.00 | 0.61 | 0.98 | 0.400 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 170 | 11.72 | 0.61 | 0.00 | 0.61 | 0.98 | 0.399 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 171 | 11.81 | 0.62 | 0.00 | 0.62 | 0.98 | 0.399 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 172 | 11.86 | 0.62 | 0.00 | 0.62 | 0.98 | 0.399 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 173 | 11.96 | 0.63 | 0.00 | 0.63 | 0.98 | 0.399 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 174 | 12.01 | 0.63 | 0.00 | 0.63 | 0.97 | 0.399 | 1.36 | 0.294 | 1.00 | 1.00 | 2.000 | No |
| 175 | 12.10 | 0.63 | 0.00 | 0.63 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 176 | 12.16 | 0.64 | 0.00 | 0.64 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 177 | 12.24 | 0.64 | 0.00 | 0.64 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 178 | 12.32 | 0.64 | 0.00 | 0.64 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 179 | 12.39 | 0.65 | 0.00 | 0.65 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 180 | 12.48 | 0.65 | 0.00 | 0.65 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 181 | 12.50 | 0.65 | 0.00 | 0.65 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 182 | 12.54 | 0.66 | 0.00 | 0.66 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 183 | 12.64 | 0.66 | 0.00 | 0.66 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 184 | 12.68 | 0.66 | 0.00 | 0.66 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 185 | 12.77 | 0.67 | 0.00 | 0.67 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 186 | 12.82 | 0.67 | 0.00 | 0.67 | 0.97 | 0.399 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 187 | 12.89 | 0.68 | 0.00 | 0.68 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 188 | 12.97 | 0.68 | 0.00 | 0.68 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 189 | 13.03 | 0.68 | 0.00 | 0.68 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 190 | 13.12 | 0.69 | 0.00 | 0.69 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 191 | 13.16 | 0.69 | 0.00 | 0.69 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 192 | 13.26 | 0.70 | 0.00 | 0.70 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 193 | 13.34 | 0.70 | 0.00 | 0.70 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 194 | 13.41 | 0.70 | 0.00 | 0.70 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 195 | 13.50 | 0.71 | 0.00 | 0.71 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 196 | 13.60 | 0.71 | 0.00 | 0.71 | 0.97 | 0.398 | 1.36 | 0.293 | 1.00 | 1.00 | 2.000 | No |
| 197 | 13.65 | 0.72 | 0.00 | 0.72 | 0.97 | 0.398 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 198 | 13.75 | 0.72 | 0.00 | 0.72 | 0.97 | 0.398 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 199 | 13.80 | 0.73 | 0.00 | 0.73 | 0.97 | 0.398 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 200 | 13.89 | 0.73 | 0.00 | 0.73 | 0.97 | 0.398 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 201 | 13.94 | 0.73 | 0.00 | 0.73 | 0.97 | 0.398 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 202 | 14.03 | 0.74 | 0.00 | 0.74 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 203 | 14.11 | 0.74 | 0.00 | 0.74 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 204 | 14.13 | 0.74 | 0.00 | 0.74 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 205 | 14.18 | 0.75 | 0.00 | 0.75 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 206 | 14.22 | 0.75 | 0.00 | 0.75 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 207 | 14.28 | 0.75 | 0.00 | 0.75 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 208 | 14.37 | 0.76 | 0.00 | 0.76 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 209 | 14.44 | 0.76 | 0.00 | 0.76 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 210 | 14.51 | 0.76 | 0.00 | 0.76 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 211 | 14.60 | 0.77 | 0.00 | 0.77 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 212 | 14.65 | 0.77 | 0.00 | 0.77 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 213 | 14.75 | 0.78 | 0.00 | 0.78 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 214 | 14.85 | 0.78 | 0.00 | 0.78 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 215 | 14.91 | 0.79 | 0.00 | 0.79 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | No |
| 216 | 14.99 | 0.79 | 0.00 | 0.79 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | Yes |
| 217 | 15.09 | 0.80 | 0.00 | 0.80 | 0.97 | 0.397 | 1.36 | 0.292 | 1.00 | 1.00 | 2.000 | Yes |
| 218 | 15.18 | 0.80 | 0.00 | 0.80 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 219 | 15.25 | 0.81 | 0.00 | 0.81 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 220 | 15.33 | 0.81 | 0.00 | 0.81 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 221 | 15.43 | 0.82 | 0.00 | 0.82 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 222 | 15.51 | 0.82 | 0.00 | 0.82 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 223 | 15.59 | 0.83 | 0.00 | 0.83 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 224 | 15.67 | 0.83 | 0.00 | 0.83 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 225 | 15.76 | 0.84 | 0.00 | 0.84 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 226 | 15.86 | 0.84 | 0.00 | 0.84 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 227 | 15.95 | 0.85 | 0.00 | 0.85 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 228 | 16.05 | 0.85 | 0.00 | 0.85 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 229 | 16.14 | 0.86 | 0.00 | 0.86 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 230 | 16.20 | 0.86 | 0.00 | 0.86 | 0.97 | 0.396 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 231 | 16.28 | 0.87 | 0.00 | 0.87 | 0.97 | 0.395 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 232 | 16.34 | 0.87 | 0.00 | 0.87 | 0.97 | 0.395 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 233 | 16.44 | 0.87 | 0.00 | 0.87 | 0.97 | 0.395 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 234 | 16.50 | 0.88 | 0.00 | 0.88 | 0.97 | 0.395 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 235 | 16.58 | 0.88 | 0.00 | 0.88 | 0.97 | 0.395 | 1.36 | 0.291 | 1.00 | 1.00 | 2.000 | Yes |
| 236 | 16.73 | 0.89 | 0.00 | 0.89 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 237 | 16.82 | 0.89 | 0.00 | 0.89 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 238 | 16.92 | 0.90 | 0.00 | 0.90 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 239 | 17.01 | 0.90 | 0.00 | 0.90 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 240 | 17.11 | 0.91 | 0.00 | 0.91 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 241 | 17.12 | 0.91 | 0.00 | 0.91 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 242 | 17.14 | 0.91 | 0.00 | 0.91 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 243 | 17.19 | 0.91 | 0.00 | 0.91 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 244 | 17.28 | 0.92 | 0.00 | 0.92 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 245 | 17.33 | 0.92 | 0.00 | 0.92 | 0.96 | 0.395 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 246 | 17.43 | 0.92 | 0.00 | 0.92 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 247 | 17.47 | 0.93 | 0.00 | 0.93 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 248 | 17.57 | 0.93 | 0.00 | 0.93 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 249 | 17.65 | 0.94 | 0.00 | 0.94 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 250 | 17.72 | 0.94 | 0.00 | 0.94 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 251 | 17.81 | 0.94 | 0.00 | 0.94 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 252 | 17.86 | 0.95 | 0.00 | 0.95 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 253 | 17.95 | 0.95 | 0.00 | 0.95 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 254 | 18.05 | 0.96 | 0.00 | 0.96 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 255 | 18.10 | 0.96 | 0.00 | 0.96 | 0.96 | 0.394 | 1.36 | 0.290 | 1.00 | 1.00 | 2.000 | No |
| 256 | 18.20 | 0.97 | 0.00 | 0.97 | 0.96 | 0.394 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 257 | 18.30 | 0.97 | 0.00 | 0.97 | 0.96 | 0.394 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 258 | 18.39 | 0.98 | 0.00 | 0.98 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 259 | 18.48 | 0.98 | 0.00 | 0.98 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 260 | 18.58 | 0.99 | 0.00 | 0.99 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 261 | 18.66 | 0.99 | 0.00 | 0.99 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 262 | 18.74 | 1.00 | 0.00 | 1.00 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 263 | 18.87 | 1.00 | 0.00 | 1.00 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 264 | 18.97 | 1.01 | 0.00 | 1.01 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 265 | 19.06 | 1.01 | 0.00 | 1.01 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 266 | 19.16 | 1.02 | 0.00 | 1.02 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 267 | 19.25 | 1.02 | 0.00 | 1.02 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 268 | 19.27 | 1.02 | 0.00 | 1.02 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 269 | 19.30 | 1.02 | 0.00 | 1.02 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 270 | 19.34 | 1.03 | 0.00 | 1.03 | 0.96 | 0.393 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 271 | 19.39 | 1.03 | 0.00 | 1.03 | 0.96 | 0.392 | 1.36 | 0.289 | 1.00 | 1.00 | 2.000 | No |
| 272 | 19.49 | 1.04 | 0.00 | 1.04 | 0.96 | 0.392 | 1.36 | 0.288 | 1.00 | 1.00 | 2.000 | No |
| 273 | 19.55 | 1.04 | 0.00 | 1.04 | 0.96 | 0.392 | 1.36 | 0.288 | 1.00 | 1.00 | 2.000 | No |
| 274 | 19.63 | 1.04 | 0.00 | 1.04 | 0.96 | 0.392 | 1.36 | 0.288 | 1.00 | 1.00 | 2.000 | No |
| 275 | 19.68 | 1.05 | 0.00 | 1.05 | 0.96 | 0.392 | 1.36 | 0.288 | 1.00 | 1.00 | 2.000 | No |
| 276 | 19.74 | 1.05 | 0.00 | 1.05 | 0.96 | 0.392 | 1.36 | 0.288 | 1.00 | 1.00 | 2.000 | No |
| 277 | 19.83 | 1.05 | 0.00 | 1.05 | 0.96 | 0.392 | 1.36 | 0.288 | 1.00 | 1.00 | 2.000 | No |
| 278 | 19.87 | 1.06 | 0.00 | 1.06 | 0.96 | 0.392 | 1.36 | 0.288 | 1.00 | 1.00 | 2.000 | No |
| 279 | 19.94 | 1.06 | 0.00 | 1.06 | 0.96 | 0.392 | 1.36 | 0.288 | 1.00 | 1.00 | 2.000 | No |
| 280 | 20.02 | 1.06 | 0.00 | 1.06 | 0.96 | 0.392 | 1.36 | 0.288 | 1.00 | 1.00 | 2.000 | No |
| 281 | 20.07 | 1.07 | 0.00 | 1.07 | 0.96 | 0.392 | 1.36 | 0.288 | 1.00 | 1.00 | 2.000 | No |
| 282 | 20.17 | 1.07 | 0.00 | 1.07 | 0.96 | 0.392 | 1.36 | 0.288 | 1.00 | 1.00 | 2.000 | No |
| 283 | 20.21 | 1.07 | 0.00 | 1.07 | 0.96 | 0.392 | 1.36 | 0.288 | 1.00 | 1.00 | 2.000 | Yes |
| 284 | 20.28 | 1.08 | 0.00 | 1.08 | 0.96 | 0.392 | 1.36 | 0.288 | 1.00 | 1.00 | 2.000 | Yes |
| 285 | 20.36 | 1.08 | 0.00 | 1.08 | 0.96 | 0.391 | 1.36 | 0.288 | 1.00 | 1.00 | 2.000 | Yes |
| 286 | 20.41 | 1.09 | 0.00 | 1.09 | 0.96 | 0.391 | 1.36 | 0.288 | 0.99 | 1.00 | 2.000 | Yes |
| 287 | 20.48 | 1.09 | 0.00 | 1.09 | 0.96 | 0.391 | 1.36 | 0.288 | 0.99 | 1.00 | 2.000 | Yes |
| 288 | 20.55 | 1.09 | 0.00 | 1.09 | 0.96 | 0.391 | 1.36 | 0.288 | 0.99 | 1.00 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 289 | 20.60 | 1.10 | 0.00 | 1.10 | 0.96 | 0.391 | 1.36 | 0.288 | 0.99 | 1.00 | 2.000 | Yes |
| 290 | 20.70 | 1.10 | 0.00 | 1.10 | 0.96 | 0.391 | 1.36 | 0.288 | 0.99 | 1.00 | 2.000 | No |
| 291 | 20.74 | 1.11 | 0.00 | 1.11 | 0.95 | 0.391 | 1.36 | 0.288 | 0.99 | 1.00 | 2.000 | No |
| 292 | 20.79 | 1.11 | 0.00 | 1.11 | 0.95 | 0.391 | 1.36 | 0.287 | 0.99 | 1.00 | 2.000 | No |
| 293 | 20.89 | 1.11 | 0.00 | 1.11 | 0.95 | 0.391 | 1.36 | 0.287 | 0.99 | 1.00 | 2.000 | No |
| 294 | 20.96 | 1.12 | 0.00 | 1.12 | 0.95 | 0.391 | 1.36 | 0.287 | 0.99 | 1.00 | 2.000 | No |
| 295 | 21.04 | 1.12 | 0.00 | 1.12 | 0.95 | 0.391 | 1.36 | 0.287 | 0.99 | 1.00 | 2.000 | No |
| 296 | 21.13 | 1.13 | 0.00 | 1.13 | 0.95 | 0.391 | 1.36 | 0.287 | 0.99 | 1.00 | 2.000 | No |
| 297 | 21.22 | 1.13 | 0.00 | 1.13 | 0.95 | 0.391 | 1.36 | 0.287 | 0.99 | 1.00 | 2.000 | No |
| 298 | 21.29 | 1.14 | 0.00 | 1.14 | 0.95 | 0.390 | 1.36 | 0.287 | 0.99 | 1.00 | 2.000 | No |
| 299 | 21.35 | 1.14 | 0.00 | 1.14 | 0.95 | 0.390 | 1.36 | 0.287 | 0.99 | 1.00 | 2.000 | No |
| 300 | 21.37 | 1.14 | 0.00 | 1.14 | 0.95 | 0.390 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | No |
| 301 | 21.42 | 1.14 | 0.00 | 1.14 | 0.95 | 0.390 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | No |
| 302 | 21.47 | 1.15 | 0.00 | 1.15 | 0.95 | 0.390 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | No |
| 303 | 21.48 | 1.15 | 0.00 | 1.15 | 0.95 | 0.390 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | No |
| 304 | 21.52 | 1.15 | 0.00 | 1.15 | 0.95 | 0.390 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | No |
| 305 | 21.57 | 1.15 | 0.00 | 1.15 | 0.95 | 0.390 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | No |
| 306 | 21.62 | 1.16 | 0.00 | 1.16 | 0.95 | 0.390 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | No |
| 307 | 21.66 | 1.16 | 0.00 | 1.16 | 0.95 | 0.390 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | No |
| 308 | 21.71 | 1.16 | 0.00 | 1.16 | 0.95 | 0.390 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | No |
| 309 | 21.76 | 1.17 | 0.00 | 1.17 | 0.95 | 0.390 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | No |
| 310 | 21.81 | 1.17 | 0.00 | 1.17 | 0.95 | 0.390 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | No |
| 311 | 21.85 | 1.17 | 0.00 | 1.17 | 0.95 | 0.390 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | No |
| 312 | 21.91 | 1.17 | 0.00 | 1.17 | 0.95 | 0.390 | 1.36 | 0.287 | 0.98 | 1.00 | 2.000 | No |
| 313 | 21.95 | 1.18 | 0.00 | 1.18 | 0.95 | 0.390 | 1.36 | 0.286 | 0.98 | 1.00 | 2.000 | No |
| 314 | 22.00 | 1.18 | 0.00 | 1.18 | 0.95 | 0.390 | 1.36 | 0.286 | 0.98 | 1.00 | 2.000 | No |
| 315 | 22.05 | 1.18 | 0.00 | 1.18 | 0.95 | 0.390 | 1.36 | 0.286 | 0.98 | 1.00 | 2.000 | No |
| 316 | 22.10 | 1.19 | 0.00 | 1.19 | 0.95 | 0.389 | 1.36 | 0.286 | 0.98 | 1.00 | 2.000 | No |
| 317 | 22.15 | 1.19 | 0.00 | 1.19 | 0.95 | 0.389 | 1.36 | 0.286 | 0.98 | 1.00 | 2.000 | No |
| 318 | 22.19 | 1.19 | 0.00 | 1.19 | 0.95 | 0.389 | 1.36 | 0.286 | 0.98 | 1.00 | 2.000 | No |
| 319 | 22.24 | 1.19 | 0.00 | 1.19 | 0.95 | 0.389 | 1.36 | 0.286 | 0.98 | 1.00 | 2.000 | No |
| 320 | 22.29 | 1.20 | 0.00 | 1.20 | 0.95 | 0.389 | 1.36 | 0.286 | 0.98 | 1.00 | 2.000 | No |
| 321 | 22.34 | 1.20 | 0.00 | 1.20 | 0.95 | 0.389 | 1.36 | 0.286 | 0.98 | 1.00 | 2.000 | No |
| 322 | 22.39 | 1.20 | 0.00 | 1.20 | 0.95 | 0.389 | 1.36 | 0.286 | 0.97 | 1.00 | 2.000 | No |
| 323 | 22.43 | 1.21 | 0.00 | 1.21 | 0.95 | 0.389 | 1.36 | 0.286 | 0.97 | 1.00 | 2.000 | No |
| 324 | 22.48 | 1.21 | 0.00 | 1.21 | 0.95 | 0.389 | 1.36 | 0.286 | 0.97 | 1.00 | 2.000 | No |
| 325 | 22.55 | 1.21 | 0.00 | 1.21 | 0.95 | 0.389 | 1.36 | 0.286 | 0.97 | 1.00 | 2.000 | No |
| 326 | 22.62 | 1.22 | 0.00 | 1.22 | 0.95 | 0.389 | 1.36 | 0.286 | 0.97 | 1.00 | 2.000 | No |
| 327 | 22.63 | 1.22 | 0.00 | 1.22 | 0.95 | 0.389 | 1.36 | 0.286 | 0.97 | 1.00 | 2.000 | No |
| 328 | 22.72 | 1.22 | 0.00 | 1.22 | 0.95 | 0.389 | 1.36 | 0.286 | 0.97 | 1.00 | 2.000 | No |
| 329 | 22.77 | 1.23 | 0.00 | 1.23 | 0.95 | 0.389 | 1.36 | 0.286 | 0.97 | 1.00 | 2.000 | No |
| 330 | 22.83 | 1.23 | 0.00 | 1.23 | 0.95 | 0.389 | 1.36 | 0.286 | 0.97 | 1.00 | 2.000 | No |
| 331 | 22.91 | 1.24 | 0.00 | 1.24 | 0.95 | 0.388 | 1.36 | 0.286 | 0.97 | 1.00 | 2.000 | No |
| 332 | 22.96 | 1.24 | 0.00 | 1.24 | 0.95 | 0.388 | 1.36 | 0.286 | 0.97 | 1.00 | 2.000 | No |
| 333 | 23.02 | 1.24 | 0.00 | 1.24 | 0.95 | 0.388 | 1.36 | 0.286 | 0.97 | 1.00 | 2.000 | No |
| 334 | 23.10 | 1.25 | 0.00 | 1.25 | 0.95 | 0.388 | 1.36 | 0.285 | 0.97 | 1.00 | 2.000 | No |
| 335 | 23.16 | 1.25 | 0.00 | 1.25 | 0.95 | 0.388 | 1.36 | 0.285 | 0.97 | 1.00 | 2.000 | No |
| 336 | 23.20 | 1.25 | 0.00 | 1.25 | 0.95 | 0.388 | 1.36 | 0.285 | 0.97 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 337 | 23.26 | 1.26 | 0.00 | 1.26 | 0.95 | 0.388 | 1.36 | 0.285 | 0.97 | 1.00 | 2.000 | No |
| 338 | 23.35 | 1.26 | 0.00 | 1.26 | 0.95 | 0.388 | 1.36 | 0.285 | 0.97 | 1.00 | 2.000 | No |
| 339 | 23.39 | 1.27 | 0.00 | 1.27 | 0.95 | 0.388 | 1.36 | 0.285 | 0.96 | 1.00 | 2.000 | No |
| 340 | 23.48 | 1.27 | 0.00 | 1.27 | 0.95 | 0.388 | 1.36 | 0.285 | 0.96 | 1.00 | 2.000 | No |
| 341 | 23.54 | 1.27 | 0.00 | 1.27 | 0.95 | 0.388 | 1.36 | 0.285 | 0.96 | 1.00 | 2.000 | No |
| 342 | 23.63 | 1.28 | 0.00 | 1.28 | 0.95 | 0.388 | 1.36 | 0.285 | 0.96 | 1.00 | 2.000 | No |
| 343 | 23.69 | 1.28 | 0.00 | 1.28 | 0.95 | 0.387 | 1.36 | 0.285 | 0.96 | 1.00 | 2.000 | No |
| 344 | 23.78 | 1.29 | 0.00 | 1.29 | 0.95 | 0.387 | 1.36 | 0.285 | 0.96 | 1.00 | 2.000 | No |
| 345 | 23.87 | 1.29 | 0.00 | 1.29 | 0.95 | 0.387 | 1.36 | 0.285 | 0.96 | 1.00 | 2.000 | No |
| 346 | 23.88 | 1.29 | 0.00 | 1.29 | 0.95 | 0.387 | 1.36 | 0.285 | 0.96 | 1.00 | 2.000 | No |
| 347 | 23.93 | 1.30 | 0.00 | 1.30 | 0.95 | 0.387 | 1.36 | 0.285 | 0.96 | 1.00 | 2.000 | No |
| 348 | 24.02 | 1.30 | 0.00 | 1.30 | 0.95 | 0.387 | 1.36 | 0.285 | 0.96 | 1.00 | 2.000 | No |
| 349 | 24.04 | 1.30 | 0.00 | 1.30 | 0.95 | 0.387 | 1.36 | 0.285 | 0.96 | 1.00 | 2.000 | No |
| 350 | 24.05 | 1.30 | 0.00 | 1.30 | 0.95 | 0.387 | 1.36 | 0.285 | 0.96 | 1.00 | 2.000 | No |
| 351 | 24.15 | 1.31 | 0.00 | 1.31 | 0.94 | 0.387 | 1.36 | 0.284 | 0.96 | 1.00 | 2.000 | No |
| 352 | 24.20 | 1.31 | 0.00 | 1.31 | 0.94 | 0.387 | 1.36 | 0.284 | 0.96 | 1.00 | 2.000 | No |
| 353 | 24.30 | 1.32 | 0.00 | 1.32 | 0.94 | 0.387 | 1.36 | 0.284 | 0.96 | 1.00 | 2.000 | No |
| 354 | 24.40 | 1.32 | 0.00 | 1.32 | 0.94 | 0.387 | 1.36 | 0.284 | 0.96 | 1.00 | 2.000 | No |
| 355 | 24.46 | 1.33 | 0.00 | 1.33 | 0.94 | 0.386 | 1.36 | 0.284 | 0.96 | 1.00 | 2.000 | No |
| 356 | 24.54 | 1.33 | 0.00 | 1.33 | 0.94 | 0.386 | 1.36 | 0.284 | 0.95 | 1.00 | 2.000 | No |
| 357 | 24.64 | 1.34 | 0.00 | 1.34 | 0.94 | 0.386 | 1.36 | 0.284 | 0.95 | 1.00 | 2.000 | Yes |
| 358 | 24.73 | 1.34 | 0.00 | 1.34 | 0.94 | 0.386 | 1.36 | 0.284 | 0.95 | 1.00 | 2.000 | Yes |
| 359 | 24.78 | 1.35 | 0.00 | 1.35 | 0.94 | 0.386 | 1.36 | 0.284 | 0.95 | 1.00 | 2.000 | Yes |
| 360 | 24.88 | 1.35 | 0.00 | 1.35 | 0.94 | 0.386 | 1.36 | 0.284 | 0.95 | 1.00 | 2.000 | Yes |
| 361 | 24.94 | 1.36 | 0.00 | 1.36 | 0.94 | 0.386 | 1.36 | 0.284 | 0.95 | 1.00 | 2.000 | Yes |
| 362 | 25.02 | 1.36 | 0.00 | 1.36 | 0.94 | 0.386 | 1.36 | 0.284 | 0.95 | 1.00 | 2.000 | Yes |
| 363 | 25.12 | 1.37 | 0.00 | 1.37 | 0.94 | 0.386 | 1.36 | 0.283 | 0.95 | 1.00 | 2.000 | Yes |
| 364 | 25.17 | 1.37 | 0.00 | 1.37 | 0.94 | 0.385 | 1.36 | 0.283 | 0.95 | 1.00 | 2.000 | Yes |
| 365 | 25.27 | 1.38 | 0.00 | 1.38 | 0.94 | 0.385 | 1.36 | 0.283 | 0.95 | 1.00 | 2.000 | Yes |
| 366 | 25.36 | 1.38 | 0.00 | 1.38 | 0.94 | 0.385 | 1.36 | 0.283 | 0.95 | 1.00 | 2.000 | No |
| 367 | 25.43 | 1.38 | 0.00 | 1.38 | 0.94 | 0.385 | 1.36 | 0.283 | 0.95 | 1.00 | 2.000 | No |
| 368 | 25.50 | 1.39 | 0.00 | 1.39 | 0.94 | 0.385 | 1.36 | 0.283 | 0.95 | 1.00 | 2.000 | No |
| 369 | 25.60 | 1.39 | 0.00 | 1.39 | 0.94 | 0.385 | 1.36 | 0.283 | 0.95 | 1.00 | 2.000 | No |
| 370 | 25.64 | 1.40 | 0.00 | 1.40 | 0.94 | 0.385 | 1.36 | 0.283 | 0.95 | 1.00 | 2.000 | No |
| 371 | 25.67 | 1.40 | 0.00 | 1.40 | 0.94 | 0.385 | 1.36 | 0.283 | 0.95 | 1.00 | 2.000 | No |
| 372 | 25.71 | 1.40 | 0.00 | 1.40 | 0.94 | 0.385 | 1.36 | 0.283 | 0.95 | 1.00 | 2.000 | No |
| 373 | 25.79 | 1.40 | 0.00 | 1.40 | 0.94 | 0.384 | 1.36 | 0.283 | 0.95 | 1.00 | 2.000 | No |
| 374 | 25.93 | 1.41 | 0.00 | 1.41 | 0.94 | 0.384 | 1.36 | 0.283 | 0.94 | 1.00 | 2.000 | No |
| 375 | 26.03 | 1.42 | 0.00 | 1.42 | 0.94 | 0.384 | 1.36 | 0.282 | 0.94 | 1.00 | 2.000 | No |
| 376 | 26.13 | 1.42 | 0.00 | 1.42 | 0.94 | 0.384 | 1.36 | 0.282 | 0.94 | 1.00 | 2.000 | No |
| 377 | 26.24 | 1.43 | 0.00 | 1.43 | 0.94 | 0.384 | 1.36 | 0.282 | 0.94 | 1.00 | 2.000 | No |
| 378 | 26.37 | 1.43 | 0.00 | 1.43 | 0.94 | 0.384 | 1.36 | 0.282 | 0.94 | 1.00 | 2.000 | No |
| 379 | 26.47 | 1.44 | 0.00 | 1.44 | 0.94 | 0.383 | 1.36 | 0.282 | 0.94 | 1.00 | 2.000 | No |
| 380 | 26.60 | 1.45 | 0.00 | 1.45 | 0.94 | 0.383 | 1.36 | 0.282 | 0.94 | 1.00 | 2.000 | No |
| 381 | 26.71 | 1.45 | 0.00 | 1.45 | 0.94 | 0.383 | 1.36 | 0.282 | 0.94 | 1.00 | 2.000 | No |
| 382 | 26.85 | 1.46 | 0.00 | 1.46 | 0.93 | 0.383 | 1.36 | 0.281 | 0.94 | 1.00 | 2.000 | No |
| 383 | 26.95 | 1.46 | 0.00 | 1.46 | 0.93 | 0.383 | 1.36 | 0.281 | 0.94 | 1.00 | 2.000 | No |
| 384 | 27.04 | 1.47 | 0.00 | 1.47 | 0.93 | 0.382 | 1.36 | 0.281 | 0.94 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 385 | 27.09 | 1.47 | 0.00 | 1.47 | 0.93 | 0.382 | 1.36 | 0.281 | 0.94 | 1.00 | 2.000 | No |
| 386 | 27.19 | 1.48 | 0.00 | 1.48 | 0.93 | 0.382 | 1.36 | 0.281 | 0.94 | 1.00 | 2.000 | No |
| 387 | 27.23 | 1.48 | 0.00 | 1.48 | 0.93 | 0.382 | 1.36 | 0.281 | 0.94 | 1.00 | 2.000 | No |
| 388 | 27.33 | 1.48 | 0.00 | 1.48 | 0.93 | 0.382 | 1.36 | 0.281 | 0.93 | 1.00 | 2.000 | No |
| 389 | 27.40 | 1.49 | 0.00 | 1.49 | 0.93 | 0.382 | 1.36 | 0.281 | 0.93 | 1.00 | 2.000 | No |
| 390 | 27.47 | 1.49 | 0.00 | 1.49 | 0.93 | 0.382 | 1.36 | 0.281 | 0.93 | 1.00 | 2.000 | No |
| 391 | 27.57 | 1.50 | 0.00 | 1.50 | 0.93 | 0.382 | 1.36 | 0.281 | 0.93 | 1.00 | 2.000 | No |
| 392 | 27.66 | 1.50 | 0.00 | 1.50 | 0.93 | 0.381 | 1.36 | 0.280 | 0.93 | 1.00 | 2.000 | No |
| 393 | 27.77 | 1.51 | 0.00 | 1.51 | 0.93 | 0.381 | 1.36 | 0.280 | 0.93 | 1.00 | 2.000 | No |
| 394 | 27.86 | 1.51 | 0.00 | 1.51 | 0.93 | 0.381 | 1.36 | 0.280 | 0.93 | 1.00 | 2.000 | No |
| 395 | 27.96 | 1.52 | 0.00 | 1.52 | 0.93 | 0.381 | 1.36 | 0.280 | 0.93 | 1.00 | 2.000 | No |
| 396 | 28.06 | 1.52 | 0.00 | 1.52 | 0.93 | 0.381 | 1.36 | 0.280 | 0.93 | 1.00 | 2.000 | No |
| 397 | 28.15 | 1.53 | 0.00 | 1.53 | 0.93 | 0.381 | 1.36 | 0.280 | 0.93 | 1.00 | 2.000 | No |
| 398 | 28.25 | 1.54 | 0.00 | 1.54 | 0.93 | 0.380 | 1.36 | 0.280 | 0.93 | 1.00 | 2.000 | No |
| 399 | 28.34 | 1.54 | 0.00 | 1.54 | 0.93 | 0.380 | 1.36 | 0.280 | 0.93 | 1.00 | 2.000 | No |
| 400 | 28.44 | 1.55 | 0.00 | 1.55 | 0.93 | 0.380 | 1.36 | 0.279 | 0.93 | 1.00 | 2.000 | No |
| 401 | 28.54 | 1.55 | 0.00 | 1.55 | 0.93 | 0.380 | 1.36 | 0.279 | 0.93 | 1.00 | 2.000 | No |
| 402 | 28.62 | 1.56 | 0.00 | 1.56 | 0.93 | 0.380 | 1.36 | 0.279 | 0.93 | 1.00 | 2.000 | No |
| 403 | 28.71 | 1.56 | 0.00 | 1.56 | 0.93 | 0.380 | 1.36 | 0.279 | 0.93 | 1.00 | 2.000 | No |
| 404 | 28.77 | 1.56 | 0.00 | 1.56 | 0.93 | 0.379 | 1.36 | 0.279 | 0.92 | 1.00 | 2.000 | No |
| 405 | 28.86 | 1.57 | 0.00 | 1.57 | 0.93 | 0.379 | 1.36 | 0.279 | 0.92 | 1.00 | 2.000 | No |
| 406 | 28.91 | 1.57 | 0.00 | 1.57 | 0.93 | 0.379 | 1.36 | 0.279 | 0.92 | 1.00 | 2.000 | No |
| 407 | 28.97 | 1.58 | 0.00 | 1.58 | 0.93 | 0.379 | 1.36 | 0.279 | 0.92 | 1.00 | 2.000 | No |
| 408 | 29.04 | 1.58 | 0.00 | 1.58 | 0.93 | 0.379 | 1.36 | 0.279 | 0.92 | 1.00 | 2.000 | No |
| 409 | 29.10 | 1.58 | 0.00 | 1.58 | 0.92 | 0.379 | 1.36 | 0.278 | 0.92 | 1.00 | 2.000 | No |
| 410 | 29.15 | 1.59 | 0.00 | 1.59 | 0.92 | 0.379 | 1.36 | 0.278 | 0.92 | 1.00 | 2.000 | No |
| 411 | 29.25 | 1.59 | 0.00 | 1.59 | 0.92 | 0.378 | 1.36 | 0.278 | 0.92 | 1.00 | 2.000 | No |
| 412 | 29.34 | 1.60 | 0.00 | 1.60 | 0.92 | 0.378 | 1.36 | 0.278 | 0.92 | 1.00 | 2.000 | No |
| 413 | 29.38 | 1.60 | 0.00 | 1.60 | 0.92 | 0.378 | 1.36 | 0.278 | 0.92 | 1.00 | 2.000 | No |
| 414 | 29.48 | 1.61 | 0.00 | 1.61 | 0.92 | 0.378 | 1.36 | 0.278 | 0.92 | 1.00 | 2.000 | No |
| 415 | 29.55 | 1.61 | 0.00 | 1.61 | 0.92 | 0.378 | 1.36 | 0.278 | 0.92 | 1.00 | 2.000 | Yes |
| 416 | 29.63 | 1.62 | 0.00 | 1.62 | 0.92 | 0.378 | 1.36 | 0.278 | 0.92 | 1.00 | 2.000 | Yes |
| 417 | 29.72 | 1.62 | 0.00 | 1.62 | 0.92 | 0.378 | 1.36 | 0.278 | 0.92 | 1.00 | 2.000 | Yes |
| 418 | 29.82 | 1.63 | 0.00 | 1.63 | 0.92 | 0.377 | 1.36 | 0.277 | 0.92 | 1.00 | 2.000 | Yes |
| 419 | 29.88 | 1.63 | 0.00 | 1.63 | 0.92 | 0.377 | 1.36 | 0.277 | 0.92 | 1.00 | 2.000 | Yes |
| 420 | 29.96 | 1.63 | 0.00 | 1.63 | 0.92 | 0.377 | 1.36 | 0.277 | 0.92 | 1.00 | 2.000 | Yes |
| 421 | 30.06 | 1.64 | 0.00 | 1.64 | 0.92 | 0.377 | 1.36 | 0.277 | 0.92 | 1.00 | 2.000 | Yes |
| 422 | 30.13 | 1.64 | 0.00 | 1.64 | 0.92 | 0.378 | 1.36 | 0.278 | 0.92 | 1.00 | 2.000 | Yes |
| 423 | 30.18 | 1.65 | 0.01 | 1.64 | 0.92 | 0.378 | 1.36 | 0.278 | 0.92 | 1.00 | 0.303 | No |
| 424 | 30.28 | 1.65 | 0.01 | 1.64 | 0.92 | 0.378 | 1.36 | 0.278 | 0.92 | 1.00 | 0.304 | No |
| 425 | 30.37 | 1.66 | 0.01 | 1.65 | 0.92 | 0.379 | 1.36 | 0.279 | 0.92 | 1.00 | 0.304 | No |
| 426 | 30.47 | 1.66 | 0.01 | 1.65 | 0.92 | 0.379 | 1.36 | 0.279 | 0.92 | 1.00 | 0.305 | No |
| 427 | 30.57 | 1.67 | 0.02 | 1.65 | 0.92 | 0.380 | 1.36 | 0.279 | 0.91 | 1.00 | 0.305 | No |
| 428 | 30.66 | 1.68 | 0.02 | 1.65 | 0.92 | 0.380 | 1.36 | 0.280 | 0.91 | 1.00 | 0.306 | No |
| 429 | 30.74 | 1.68 | 0.02 | 1.66 | 0.92 | 0.381 | 1.36 | 0.280 | 0.91 | 1.00 | 0.306 | No |
| 430 | 30.82 | 1.68 | 0.03 | 1.66 | 0.92 | 0.381 | 1.36 | 0.280 | 0.91 | 1.00 | 0.306 | No |
| 431 | 30.90 | 1.69 | 0.03 | 1.66 | 0.92 | 0.381 | 1.36 | 0.280 | 0.91 | 1.00 | 0.307 | No |
| 432 | 31.01 | 1.70 | 0.03 | 1.66 | 0.92 | 0.382 | 1.36 | 0.281 | 0.91 | 1.00 | 0.307 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 433 | 31.10 | 1.70 | 0.03 | 1.67 | 0.91 | 0.382 | 1.36 | 0.281 | 0.91 | 1.00 | 0.308 | No |
| 434 | 31.19 | 1.71 | 0.04 | 1.67 | 0.91 | 0.383 | 1.36 | 0.281 | 0.91 | 1.00 | 0.308 | No |
| 435 | 31.28 | 1.71 | 0.04 | 1.67 | 0.91 | 0.383 | 1.36 | 0.282 | 0.91 | 1.00 | 0.309 | No |
| 436 | 31.35 | 1.72 | 0.04 | 1.67 | 0.91 | 0.383 | 1.36 | 0.282 | 0.91 | 1.00 | 0.309 | No |
| 437 | 31.43 | 1.72 | 0.04 | 1.68 | 0.91 | 0.384 | 1.36 | 0.282 | 0.91 | 1.00 | 0.309 | No |
| 438 | 31.53 | 1.73 | 0.05 | 1.68 | 0.91 | 0.384 | 1.36 | 0.283 | 0.91 | 1.00 | 0.310 | No |
| 439 | 31.60 | 1.73 | 0.05 | 1.68 | 0.91 | 0.385 | 1.36 | 0.283 | 0.91 | 1.00 | 0.310 | No |
| 440 | 31.67 | 1.74 | 0.05 | 1.68 | 0.91 | 0.385 | 1.36 | 0.283 | 0.91 | 1.00 | 0.311 | No |
| 441 | 31.77 | 1.74 | 0.06 | 1.69 | 0.91 | 0.385 | 1.36 | 0.283 | 0.91 | 1.00 | 0.311 | No |
| 442 | 31.84 | 1.75 | 0.06 | 1.69 | 0.91 | 0.386 | 1.36 | 0.283 | 0.91 | 1.00 | 0.311 | No |
| 443 | 31.91 | 1.75 | 0.06 | 1.69 | 0.91 | 0.386 | 1.36 | 0.284 | 0.91 | 1.00 | 0.312 | No |
| 444 | 31.98 | 1.76 | 0.06 | 1.69 | 0.91 | 0.386 | 1.36 | 0.284 | 0.91 | 1.00 | 0.312 | No |
| 445 | 31.98 | 1.76 | 0.06 | 1.69 | 0.91 | 0.386 | 1.36 | 0.284 | 0.91 | 1.00 | 0.312 | No |
| 446 | 32.04 | 1.76 | 0.06 | 1.70 | 0.91 | 0.386 | 1.36 | 0.284 | 0.91 | 1.00 | 0.312 | No |
| 447 | 32.12 | 1.76 | 0.07 | 1.70 | 0.91 | 0.387 | 1.36 | 0.284 | 0.91 | 1.00 | 2.000 | Yes |
| 448 | 32.16 | 1.77 | 0.07 | 1.70 | 0.91 | 0.387 | 1.36 | 0.284 | 0.91 | 1.00 | 2.000 | Yes |
| 449 | 32.27 | 1.77 | 0.07 | 1.70 | 0.91 | 0.387 | 1.36 | 0.285 | 0.91 | 1.00 | 2.000 | Yes |
| 450 | 32.33 | 1.78 | 0.07 | 1.70 | 0.91 | 0.388 | 1.36 | 0.285 | 0.91 | 1.00 | 2.000 | Yes |
| 451 | 32.41 | 1.78 | 0.08 | 1.71 | 0.91 | 0.388 | 1.36 | 0.285 | 0.91 | 1.00 | 2.000 | Yes |
| 452 | 32.50 | 1.79 | 0.08 | 1.71 | 0.91 | 0.388 | 1.36 | 0.285 | 0.91 | 1.00 | 2.000 | Yes |
| 453 | 32.58 | 1.79 | 0.08 | 1.71 | 0.91 | 0.389 | 1.36 | 0.286 | 0.91 | 1.00 | 2.000 | Yes |
| 454 | 32.66 | 1.80 | 0.08 | 1.71 | 0.91 | 0.389 | 1.36 | 0.286 | 0.91 | 1.00 | 2.000 | Yes |
| 455 | 32.74 | 1.80 | 0.09 | 1.72 | 0.91 | 0.389 | 1.36 | 0.286 | 0.91 | 1.00 | 2.000 | Yes |
| 456 | 32.84 | 1.81 | 0.09 | 1.72 | 0.90 | 0.390 | 1.36 | 0.286 | 0.91 | 1.00 | 2.000 | Yes |
| 457 | 32.90 | 1.81 | 0.09 | 1.72 | 0.90 | 0.390 | 1.36 | 0.287 | 0.91 | 1.00 | 2.000 | Yes |
| 458 | 32.98 | 1.82 | 0.09 | 1.72 | 0.90 | 0.390 | 1.36 | 0.287 | 0.91 | 1.00 | 2.000 | Yes |
| 459 | 33.08 | 1.82 | 0.10 | 1.73 | 0.90 | 0.390 | 1.36 | 0.287 | 0.91 | 1.00 | 0.317 | No |
| 460 | 33.14 | 1.83 | 0.10 | 1.73 | 0.90 | 0.391 | 1.36 | 0.287 | 0.91 | 1.00 | 0.317 | No |
| 461 | 33.22 | 1.83 | 0.10 | 1.73 | 0.90 | 0.391 | 1.36 | 0.287 | 0.91 | 1.00 | 0.317 | No |
| 462 | 33.32 | 1.84 | 0.10 | 1.73 | 0.90 | 0.391 | 1.36 | 0.288 | 0.91 | 1.00 | 0.318 | No |
| 463 | 33.37 | 1.84 | 0.11 | 1.73 | 0.90 | 0.392 | 1.36 | 0.288 | 0.91 | 1.00 | 0.318 | No |
| 464 | 33.47 | 1.84 | 0.11 | 1.74 | 0.90 | 0.392 | 1.36 | 0.288 | 0.91 | 1.00 | 0.318 | No |
| 465 | 33.56 | 1.85 | 0.11 | 1.74 | 0.90 | 0.392 | 1.36 | 0.288 | 0.91 | 1.00 | 0.318 | No |
| 466 | 33.63 | 1.85 | 0.11 | 1.74 | 0.90 | 0.392 | 1.36 | 0.289 | 0.91 | 1.00 | 0.319 | No |
| 467 | 33.71 | 1.86 | 0.12 | 1.74 | 0.90 | 0.393 | 1.36 | 0.289 | 0.91 | 1.00 | 0.319 | No |
| 468 | 33.81 | 1.86 | 0.12 | 1.74 | 0.90 | 0.393 | 1.36 | 0.289 | 0.90 | 1.00 | 0.319 | No |
| 469 | 33.90 | 1.87 | 0.12 | 1.75 | 0.90 | 0.393 | 1.36 | 0.289 | 0.90 | 1.00 | 0.320 | No |
| 470 | 33.95 | 1.87 | 0.12 | 1.75 | 0.90 | 0.394 | 1.36 | 0.289 | 0.90 | 1.00 | 0.320 | No |
| 471 | 34.04 | 1.88 | 0.13 | 1.75 | 0.90 | 0.394 | 1.36 | 0.290 | 0.90 | 1.00 | 0.320 | No |
| 472 | 34.14 | 1.88 | 0.13 | 1.75 | 0.90 | 0.394 | 1.36 | 0.290 | 0.90 | 1.00 | 0.321 | No |
| 473 | 34.17 | 1.88 | 0.13 | 1.75 | 0.90 | 0.394 | 1.36 | 0.290 | 0.90 | 1.00 | 0.321 | No |
| 474 | 34.20 | 1.88 | 0.13 | 1.75 | 0.90 | 0.394 | 1.36 | 0.290 | 0.90 | 1.00 | 0.321 | No |
| 475 | 34.26 | 1.89 | 0.13 | 1.75 | 0.90 | 0.395 | 1.36 | 0.290 | 0.90 | 1.00 | 0.321 | No |
| 476 | 34.35 | 1.89 | 0.14 | 1.76 | 0.90 | 0.395 | 1.36 | 0.290 | 0.90 | 1.00 | 0.321 | No |
| 477 | 34.43 | 1.90 | 0.14 | 1.76 | 0.89 | 0.395 | 1.36 | 0.291 | 0.90 | 1.00 | 0.322 | No |
| 478 | 34.49 | 1.90 | 0.14 | 1.76 | 0.89 | 0.395 | 1.36 | 0.291 | 0.90 | 1.00 | 0.322 | No |
| 479 | 34.59 | 1.90 | 0.14 | 1.76 | 0.89 | 0.396 | 1.36 | 0.291 | 0.90 | 1.00 | 0.322 | No |
| 480 | 34.69 | 1.91 | 0.15 | 1.76 | 0.89 | 0.396 | 1.36 | 0.291 | 0.90 | 1.00 | 0.322 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 481 | 34.73 | 1.91 | 0.15 | 1.76 | 0.89 | 0.396 | 1.36 | 0.291 | 0.90 | 1.00 | 0.323 | No |
| 482 | 34.83 | 1.92 | 0.15 | 1.76 | 0.89 | 0.396 | 1.36 | 0.291 | 0.90 | 1.00 | 0.323 | No |
| 483 | 34.90 | 1.92 | 0.15 | 1.77 | 0.89 | 0.397 | 1.36 | 0.292 | 0.90 | 1.00 | 0.323 | No |
| 484 | 34.98 | 1.92 | 0.16 | 1.77 | 0.89 | 0.397 | 1.36 | 0.292 | 0.90 | 1.00 | 0.323 | No |
| 485 | 35.07 | 1.93 | 0.16 | 1.77 | 0.89 | 0.397 | 1.36 | 0.292 | 0.90 | 1.00 | 0.324 | No |
| 486 | 35.16 | 1.93 | 0.16 | 1.77 | 0.89 | 0.397 | 1.36 | 0.292 | 0.90 | 1.00 | 0.324 | No |
| 487 | 35.26 | 1.94 | 0.16 | 1.77 | 0.89 | 0.398 | 1.36 | 0.292 | 0.90 | 1.00 | 0.324 | No |
| 488 | 35.33 | 1.94 | 0.17 | 1.78 | 0.89 | 0.398 | 1.36 | 0.292 | 0.90 | 1.00 | 0.324 | No |
| 489 | 35.40 | 1.95 | 0.17 | 1.78 | 0.89 | 0.398 | 1.36 | 0.293 | 0.90 | 1.00 | 0.325 | No |
| 490 | 35.50 | 1.95 | 0.17 | 1.78 | 0.89 | 0.398 | 1.36 | 0.293 | 0.90 | 1.00 | 0.325 | No |
| 491 | 35.57 | 1.96 | 0.17 | 1.78 | 0.89 | 0.398 | 1.36 | 0.293 | 0.90 | 1.00 | 0.325 | No |
| 492 | 35.65 | 1.96 | 0.18 | 1.78 | 0.89 | 0.399 | 1.36 | 0.293 | 0.90 | 1.00 | 0.325 | No |
| 493 | 35.71 | 1.96 | 0.18 | 1.79 | 0.89 | 0.399 | 1.36 | 0.293 | 0.90 | 1.00 | 0.326 | No |
| 494 | 35.79 | 1.97 | 0.18 | 1.79 | 0.88 | 0.399 | 1.36 | 0.293 | 0.90 | 1.00 | 0.326 | No |
| 495 | 35.85 | 1.97 | 0.18 | 1.79 | 0.88 | 0.399 | 1.36 | 0.293 | 0.90 | 1.00 | 0.326 | No |
| 496 | 35.94 | 1.98 | 0.19 | 1.79 | 0.88 | 0.399 | 1.36 | 0.294 | 0.90 | 1.00 | 0.326 | No |
| 497 | 35.99 | 1.98 | 0.19 | 1.79 | 0.88 | 0.400 | 1.36 | 0.294 | 0.90 | 1.00 | 0.326 | No |
| 498 | 36.08 | 1.99 | 0.19 | 1.80 | 0.88 | 0.400 | 1.36 | 0.294 | 0.90 | 1.00 | 0.327 | No |
| 499 | 36.17 | 1.99 | 0.19 | 1.80 | 0.88 | 0.400 | 1.36 | 0.294 | 0.90 | 1.00 | 0.327 | No |
| 500 | 36.24 | 1.99 | 0.19 | 1.80 | 0.88 | 0.400 | 1.36 | 0.294 | 0.90 | 1.00 | 0.327 | No |
| 501 | 36.33 | 2.00 | 0.20 | 1.80 | 0.88 | 0.400 | 1.36 | 0.294 | 0.90 | 1.00 | 0.327 | No |
| 502 | 36.42 | 2.00 | 0.20 | 1.80 | 0.88 | 0.401 | 1.36 | 0.294 | 0.90 | 1.00 | 0.328 | No |
| 503 | 36.52 | 2.01 | 0.20 | 1.81 | 0.88 | 0.401 | 1.36 | 0.295 | 0.90 | 1.00 | 0.328 | No |
| 504 | 36.61 | 2.02 | 0.21 | 1.81 | 0.88 | 0.401 | 1.36 | 0.295 | 0.90 | 1.00 | 0.328 | No |
| 505 | 36.70 | 2.02 | 0.21 | 1.81 | 0.88 | 0.401 | 1.36 | 0.295 | 0.90 | 1.00 | 0.328 | No |
| 506 | 36.78 | 2.02 | 0.21 | 1.81 | 0.88 | 0.401 | 1.36 | 0.295 | 0.90 | 1.00 | 0.329 | No |
| 507 | 36.85 | 2.03 | 0.21 | 1.82 | 0.88 | 0.401 | 1.36 | 0.295 | 0.90 | 1.00 | 0.329 | No |
| 508 | 36.87 | 2.03 | 0.21 | 1.82 | 0.88 | 0.401 | 1.36 | 0.295 | 0.90 | 1.00 | 0.329 | No |
| 509 | 36.91 | 2.03 | 0.22 | 1.82 | 0.88 | 0.402 | 1.36 | 0.295 | 0.90 | 1.00 | 0.329 | No |
| 510 | 36.97 | 2.04 | 0.22 | 1.82 | 0.88 | 0.402 | 1.36 | 0.295 | 0.90 | 1.00 | 2.000 | Yes |
| 511 | 37.06 | 2.04 | 0.22 | 1.82 | 0.88 | 0.402 | 1.36 | 0.295 | 0.90 | 1.00 | 2.000 | Yes |
| 512 | 37.12 | 2.04 | 0.22 | 1.82 | 0.87 | 0.402 | 1.36 | 0.296 | 0.90 | 1.00 | 2.000 | Yes |
| 513 | 37.20 | 2.05 | 0.22 | 1.82 | 0.87 | 0.402 | 1.36 | 0.296 | 0.90 | 1.00 | 2.000 | Yes |
| 514 | 37.27 | 2.05 | 0.23 | 1.83 | 0.87 | 0.402 | 1.36 | 0.296 | 0.90 | 1.00 | 2.000 | Yes |
| 515 | 37.35 | 2.06 | 0.23 | 1.83 | 0.87 | 0.402 | 1.36 | 0.296 | 0.90 | 1.00 | 2.000 | Yes |
| 516 | 37.44 | 2.06 | 0.23 | 1.83 | 0.87 | 0.403 | 1.36 | 0.296 | 0.90 | 1.00 | 2.000 | Yes |
| 517 | 37.49 | 2.07 | 0.23 | 1.83 | 0.87 | 0.403 | 1.36 | 0.296 | 0.90 | 1.00 | 2.000 | Yes |
| 518 | 37.59 | 2.07 | 0.24 | 1.84 | 0.87 | 0.403 | 1.36 | 0.296 | 0.90 | 1.00 | 2.000 | Yes |
| 519 | 37.64 | 2.08 | 0.24 | 1.84 | 0.87 | 0.403 | 1.36 | 0.296 | 0.90 | 1.00 | 2.000 | Yes |
| 520 | 37.70 | 2.08 | 0.24 | 1.84 | 0.87 | 0.403 | 1.36 | 0.296 | 0.90 | 1.00 | 2.000 | Yes |
| 521 | 37.78 | 2.09 | 0.24 | 1.84 | 0.87 | 0.403 | 1.36 | 0.296 | 0.89 | 1.00 | 2.000 | Yes |
| 522 | 37.83 | 2.09 | 0.24 | 1.84 | 0.87 | 0.403 | 1.36 | 0.296 | 0.89 | 1.00 | 2.000 | Yes |
| 523 | 37.92 | 2.09 | 0.25 | 1.85 | 0.87 | 0.403 | 1.36 | 0.297 | 0.89 | 1.00 | 2.000 | Yes |
| 524 | 37.97 | 2.10 | 0.25 | 1.85 | 0.87 | 0.403 | 1.36 | 0.297 | 0.89 | 1.00 | 2.000 | Yes |
| 525 | 38.07 | 2.10 | 0.25 | 1.85 | 0.87 | 0.403 | 1.36 | 0.297 | 0.89 | 1.00 | 0.332 | No |
| 526 | 38.14 | 2.11 | 0.25 | 1.85 | 0.87 | 0.404 | 1.36 | 0.297 | 0.89 | 1.00 | 0.332 | No |
| 527 | 38.22 | 2.11 | 0.26 | 1.86 | 0.87 | 0.404 | 1.36 | 0.297 | 0.89 | 1.00 | 0.332 | No |
| 528 | 38.31 | 2.12 | 0.26 | 1.86 | 0.87 | 0.404 | 1.36 | 0.297 | 0.89 | 1.00 | 0.332 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 529 | 38.41 | 2.12 | 0.26 | 1.86 | 0.86 | 0.404 | 1.36 | 0.297 | 0.89 | 1.00 | 0.333 | No |
| 530 | 38.52 | 2.13 | 0.27 | 1.87 | 0.86 | 0.404 | 1.36 | 0.297 | 0.89 | 1.00 | 0.333 | No |
| 531 | 38.64 | 2.14 | 0.27 | 1.87 | 0.86 | 0.404 | 1.36 | 0.297 | 0.89 | 1.00 | 0.333 | No |
| 532 | 38.74 | 2.15 | 0.27 | 1.87 | 0.86 | 0.404 | 1.36 | 0.297 | 0.89 | 1.00 | 0.333 | No |
| 533 | 38.80 | 2.15 | 0.27 | 1.88 | 0.86 | 0.404 | 1.36 | 0.297 | 0.89 | 1.00 | 0.333 | No |
| 534 | 38.89 | 2.16 | 0.28 | 1.88 | 0.86 | 0.404 | 1.36 | 0.297 | 0.89 | 1.00 | 0.334 | No |
| 535 | 38.94 | 2.16 | 0.28 | 1.88 | 0.86 | 0.405 | 1.36 | 0.297 | 0.89 | 1.00 | 0.334 | No |
| 536 | 39.03 | 2.17 | 0.28 | 1.88 | 0.86 | 0.405 | 1.36 | 0.297 | 0.89 | 1.00 | 0.334 | No |
| 537 | 39.13 | 2.17 | 0.28 | 1.89 | 0.86 | 0.405 | 1.36 | 0.298 | 0.89 | 1.00 | 0.334 | No |
| 538 | 39.23 | 2.18 | 0.29 | 1.89 | 0.86 | 0.405 | 1.36 | 0.298 | 0.89 | 1.00 | 0.334 | No |
| 539 | 39.35 | 2.19 | 0.29 | 1.89 | 0.86 | 0.405 | 1.36 | 0.298 | 0.89 | 1.00 | 0.334 | No |
| 540 | 39.42 | 2.19 | 0.29 | 1.90 | 0.86 | 0.405 | 1.36 | 0.298 | 0.89 | 1.00 | 0.335 | No |
| 541 | 39.51 | 2.20 | 0.30 | 1.90 | 0.86 | 0.405 | 1.36 | 0.298 | 0.89 | 1.00 | 0.335 | No |
| 542 | 39.60 | 2.20 | 0.30 | 1.90 | 0.85 | 0.405 | 1.36 | 0.298 | 0.89 | 1.00 | 0.335 | No |
| 543 | 39.70 | 2.21 | 0.30 | 1.91 | 0.85 | 0.405 | 1.36 | 0.298 | 0.89 | 1.00 | 0.335 | No |
| 544 | 39.78 | 2.21 | 0.31 | 1.91 | 0.85 | 0.405 | 1.36 | 0.298 | 0.89 | 1.00 | 0.335 | No |
| 545 | 39.90 | 2.22 | 0.31 | 1.91 | 0.85 | 0.405 | 1.36 | 0.298 | 0.89 | 1.00 | 0.335 | No |
| 546 | 39.99 | 2.23 | 0.31 | 1.92 | 0.85 | 0.405 | 1.36 | 0.298 | 0.89 | 1.00 | 0.336 | No |
| 547 | 40.09 | 2.23 | 0.31 | 1.92 | 0.85 | 0.405 | 1.36 | 0.298 | 0.89 | 1.00 | 2.000 | Yes |
| 548 | 40.18 | 2.24 | 0.32 | 1.92 | 0.85 | 0.405 | 1.36 | 0.298 | 0.89 | 1.00 | 2.000 | Yes |
| 549 | 40.23 | 2.24 | 0.32 | 1.92 | 0.85 | 0.405 | 1.36 | 0.298 | 0.89 | 1.00 | 2.000 | Yes |
| 550 | 40.33 | 2.25 | 0.32 | 1.93 | 0.85 | 0.405 | 1.36 | 0.298 | 0.89 | 1.00 | 2.000 | Yes |
| 551 | 40.43 | 2.26 | 0.33 | 1.93 | 0.85 | 0.405 | 1.36 | 0.298 | 0.89 | 1.00 | 2.000 | Yes |
| 552 | 40.52 | 2.26 | 0.33 | 1.93 | 0.85 | 0.405 | 1.36 | 0.298 | 0.89 | 1.00 | 2.000 | Yes |
| 553 | 40.61 | 2.27 | 0.33 | 1.94 | 0.85 | 0.405 | 1.36 | 0.298 | 0.89 | 1.00 | 2.000 | Yes |
| 554 | 40.69 | 2.27 | 0.33 | 1.94 | 0.84 | 0.406 | 1.36 | 0.298 | 0.89 | 1.00 | 2.000 | Yes |
| 555 | 40.80 | 2.28 | 0.34 | 1.94 | 0.84 | 0.406 | 1.36 | 0.298 | 0.89 | 1.00 | 2.000 | Yes |
| 556 | 40.87 | 2.28 | 0.34 | 1.94 | 0.84 | 0.406 | 1.36 | 0.298 | 0.89 | 1.00 | 2.000 | Yes |
| 557 | 40.95 | 2.29 | 0.34 | 1.95 | 0.84 | 0.406 | 1.36 | 0.298 | 0.89 | 1.00 | 2.000 | Yes |
| 558 | 40.97 | 2.29 | 0.34 | 1.95 | 0.84 | 0.406 | 1.36 | 0.298 | 0.89 | 1.00 | 2.000 | Yes |
| 559 | 41.01 | 2.29 | 0.34 | 1.95 | 0.84 | 0.406 | 1.36 | 0.298 | 0.89 | 1.00 | 2.000 | Yes |
| 560 | 41.07 | 2.30 | 0.35 | 1.95 | 0.84 | 0.406 | 1.36 | 0.298 | 0.88 | 1.00 | 2.000 | Yes |
| 561 | 41.15 | 2.30 | 0.35 | 1.95 | 0.84 | 0.406 | 1.36 | 0.298 | 0.88 | 1.00 | 2.000 | Yes |
| 562 | 41.26 | 2.31 | 0.35 | 1.96 | 0.84 | 0.406 | 1.36 | 0.298 | 0.88 | 1.00 | 0.337 | No |
| 563 | 41.35 | 2.31 | 0.35 | 1.96 | 0.84 | 0.406 | 1.36 | 0.298 | 0.88 | 1.00 | 0.337 | No |
| 564 | 41.47 | 2.32 | 0.36 | 1.96 | 0.84 | 0.406 | 1.36 | 0.298 | 0.88 | 1.00 | 0.337 | No |
| 565 | 41.59 | 2.33 | 0.36 | 1.97 | 0.84 | 0.406 | 1.36 | 0.298 | 0.88 | 1.00 | 0.338 | No |
| 566 | 41.69 | 2.33 | 0.36 | 1.97 | 0.84 | 0.406 | 1.36 | 0.298 | 0.88 | 1.00 | 0.338 | No |
| 567 | 41.78 | 2.34 | 0.37 | 1.97 | 0.83 | 0.406 | 1.36 | 0.298 | 0.88 | 1.00 | 0.338 | No |
| 568 | 41.88 | 2.34 | 0.37 | 1.97 | 0.83 | 0.406 | 1.36 | 0.298 | 0.88 | 1.00 | 0.338 | No |
| 569 | 41.98 | 2.35 | 0.37 | 1.98 | 0.83 | 0.406 | 1.36 | 0.298 | 0.88 | 1.00 | 0.338 | No |
| 570 | 42.08 | 2.36 | 0.38 | 1.98 | 0.83 | 0.406 | 1.36 | 0.298 | 0.88 | 1.00 | 0.338 | No |
| 571 | 42.16 | 2.36 | 0.38 | 1.98 | 0.83 | 0.406 | 1.36 | 0.298 | 0.88 | 1.00 | 0.338 | No |
| 572 | 42.24 | 2.37 | 0.38 | 1.98 | 0.83 | 0.406 | 1.36 | 0.298 | 0.88 | 1.00 | 0.338 | No |
| 573 | 42.31 | 2.37 | 0.38 | 1.99 | 0.83 | 0.406 | 1.36 | 0.298 | 0.88 | 1.00 | 0.338 | No |
| 574 | 42.45 | 2.38 | 0.39 | 1.99 | 0.83 | 0.406 | 1.36 | 0.298 | 0.88 | 1.00 | 0.338 | No |
| 575 | 42.55 | 2.38 | 0.39 | 1.99 | 0.83 | 0.405 | 1.36 | 0.298 | 0.88 | 1.00 | 0.338 | No |
| 576 | 42.60 | 2.39 | 0.39 | 1.99 | 0.83 | 0.405 | 1.36 | 0.298 | 0.88 | 1.00 | 0.338 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 577 | 42.70 | 2.39 | 0.40 | 2.00 | 0.83 | 0.405 | 1.36 | 0.298 | 0.88 | 1.00 | 0.338 | No |
| 578 | 42.81 | 2.40 | 0.40 | 2.00 | 0.83 | 0.405 | 1.36 | 0.298 | 0.88 | 1.00 | 0.339 | No |
| 579 | 42.89 | 2.41 | 0.40 | 2.00 | 0.82 | 0.405 | 1.36 | 0.298 | 0.88 | 1.00 | 0.339 | No |
| 580 | 42.98 | 2.41 | 0.41 | 2.01 | 0.82 | 0.405 | 1.36 | 0.298 | 0.88 | 1.00 | 0.339 | No |
| 581 | 43.08 | 2.42 | 0.41 | 2.01 | 0.82 | 0.405 | 1.36 | 0.298 | 0.88 | 1.00 | 0.339 | No |
| 582 | 43.17 | 2.42 | 0.41 | 2.01 | 0.82 | 0.405 | 1.36 | 0.298 | 0.88 | 1.00 | 0.339 | No |
| 583 | 43.27 | 2.43 | 0.41 | 2.01 | 0.82 | 0.405 | 1.36 | 0.298 | 0.88 | 1.00 | 0.339 | No |
| 584 | 43.37 | 2.43 | 0.42 | 2.02 | 0.82 | 0.405 | 1.36 | 0.298 | 0.88 | 1.00 | 0.339 | No |
| 585 | 43.50 | 2.44 | 0.42 | 2.02 | 0.82 | 0.405 | 1.36 | 0.298 | 0.88 | 1.00 | 0.339 | No |
| 586 | 43.61 | 2.45 | 0.42 | 2.02 | 0.82 | 0.405 | 1.36 | 0.298 | 0.88 | 1.00 | 0.339 | No |
| 587 | 43.74 | 2.46 | 0.43 | 2.03 | 0.82 | 0.405 | 1.36 | 0.298 | 0.88 | 1.00 | 0.339 | No |
| 588 | 43.79 | 2.46 | 0.43 | 2.03 | 0.82 | 0.405 | 1.36 | 0.298 | 0.88 | 1.00 | 0.339 | No |
| 589 | 43.86 | 2.46 | 0.43 | 2.03 | 0.81 | 0.405 | 1.36 | 0.298 | 0.88 | 1.00 | 0.339 | No |
| 590 | 43.94 | 2.47 | 0.43 | 2.03 | 0.81 | 0.405 | 1.36 | 0.298 | 0.88 | 1.00 | 0.339 | No |
| 591 | 44.00 | 2.47 | 0.44 | 2.04 | 0.81 | 0.405 | 1.36 | 0.298 | 0.88 | 1.00 | 0.339 | No |
| 592 | 44.08 | 2.48 | 0.44 | 2.04 | 0.81 | 0.405 | 1.36 | 0.297 | 0.88 | 1.00 | 0.339 | No |
| 593 | 44.17 | 2.48 | 0.44 | 2.04 | 0.81 | 0.404 | 1.36 | 0.297 | 0.88 | 1.00 | 0.339 | No |
| 594 | 44.27 | 2.49 | 0.45 | 2.04 | 0.81 | 0.404 | 1.36 | 0.297 | 0.88 | 1.00 | 0.339 | No |
| 595 | 44.42 | 2.50 | 0.45 | 2.05 | 0.81 | 0.404 | 1.36 | 0.297 | 0.88 | 1.00 | 0.339 | No |
| 596 | 44.52 | 2.50 | 0.45 | 2.05 | 0.81 | 0.404 | 1.36 | 0.297 | 0.88 | 1.00 | 0.339 | No |
| 597 | 44.61 | 2.51 | 0.46 | 2.05 | 0.81 | 0.404 | 1.36 | 0.297 | 0.88 | 1.00 | 0.339 | No |
| 598 | 44.71 | 2.51 | 0.46 | 2.06 | 0.81 | 0.404 | 1.36 | 0.297 | 0.88 | 1.00 | 0.339 | No |
| 599 | 44.85 | 2.52 | 0.46 | 2.06 | 0.81 | 0.404 | 1.36 | 0.297 | 0.88 | 1.00 | 0.339 | No |
| 600 | 44.95 | 2.53 | 0.47 | 2.06 | 0.80 | 0.404 | 1.36 | 0.297 | 0.88 | 1.00 | 0.339 | No |
| 601 | 45.09 | 2.54 | 0.47 | 2.07 | 0.80 | 0.404 | 1.36 | 0.297 | 0.87 | 1.00 | 0.339 | No |
| 602 | 45.19 | 2.54 | 0.47 | 2.07 | 0.80 | 0.403 | 1.36 | 0.297 | 0.87 | 1.00 | 0.339 | No |
| 603 | 45.33 | 2.55 | 0.48 | 2.07 | 0.80 | 0.403 | 1.36 | 0.297 | 0.87 | 1.00 | 0.339 | No |
| 604 | 45.42 | 2.56 | 0.48 | 2.08 | 0.80 | 0.403 | 1.36 | 0.296 | 0.87 | 1.00 | 0.339 | No |
| 605 | 45.57 | 2.57 | 0.49 | 2.08 | 0.80 | 0.403 | 1.36 | 0.296 | 0.87 | 1.00 | 0.339 | No |
| 606 | 45.68 | 2.57 | 0.49 | 2.08 | 0.80 | 0.403 | 1.36 | 0.296 | 0.87 | 1.00 | 0.339 | No |
| 607 | 45.81 | 2.58 | 0.49 | 2.09 | 0.80 | 0.403 | 1.36 | 0.296 | 0.87 | 1.00 | 0.339 | No |
| 608 | 45.92 | 2.59 | 0.50 | 2.09 | 0.79 | 0.403 | 1.36 | 0.296 | 0.87 | 1.00 | 0.339 | No |
| 609 | 46.05 | 2.59 | 0.50 | 2.09 | 0.79 | 0.402 | 1.36 | 0.296 | 0.87 | 1.00 | 0.339 | No |
| 610 | 46.16 | 2.60 | 0.50 | 2.10 | 0.79 | 0.402 | 1.36 | 0.296 | 0.87 | 1.00 | 0.339 | No |
| 611 | 46.17 | 2.60 | 0.50 | 2.10 | 0.79 | 0.402 | 1.36 | 0.296 | 0.87 | 1.00 | 0.339 | No |
| 612 | 46.23 | 2.60 | 0.51 | 2.10 | 0.79 | 0.402 | 1.36 | 0.296 | 0.87 | 1.00 | 0.339 | No |
| 613 | 46.29 | 2.61 | 0.51 | 2.10 | 0.79 | 0.402 | 1.36 | 0.296 | 0.87 | 1.00 | 0.339 | No |
| 614 | 46.34 | 2.61 | 0.51 | 2.10 | 0.79 | 0.402 | 1.36 | 0.296 | 0.87 | 1.00 | 0.339 | No |
| 615 | 46.42 | 2.62 | 0.51 | 2.10 | 0.79 | 0.402 | 1.36 | 0.296 | 0.87 | 1.00 | 0.339 | No |
| 616 | 46.48 | 2.62 | 0.51 | 2.10 | 0.79 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 617 | 46.52 | 2.62 | 0.52 | 2.11 | 0.79 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 618 | 46.60 | 2.63 | 0.52 | 2.11 | 0.79 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 619 | 46.67 | 2.63 | 0.52 | 2.11 | 0.79 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 620 | 46.74 | 2.63 | 0.52 | 2.11 | 0.79 | 0.402 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 621 | 46.82 | 2.64 | 0.52 | 2.11 | 0.79 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 622 | 46.88 | 2.64 | 0.53 | 2.11 | 0.78 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 623 | 46.96 | 2.64 | 0.53 | 2.12 | 0.78 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 624 | 47.06 | 2.65 | 0.53 | 2.12 | 0.78 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 625 | 47.15 | 2.65 | 0.54 | 2.12 | 0.78 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 626 | 47.24 | 2.66 | 0.54 | 2.12 | 0.78 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 627 | 47.35 | 2.67 | 0.54 | 2.12 | 0.78 | 0.401 | 1.36 | 0.295 | 0.87 | 1.00 | 0.339 | No |
| 628 | 47.49 | 2.67 | 0.55 | 2.13 | 0.78 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.339 | No |
| 629 | 47.58 | 2.68 | 0.55 | 2.13 | 0.78 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.339 | No |
| 630 | 47.73 | 2.69 | 0.55 | 2.13 | 0.78 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.338 | No |
| 631 | 47.83 | 2.69 | 0.56 | 2.14 | 0.77 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.338 | No |
| 632 | 47.87 | 2.70 | 0.56 | 2.14 | 0.77 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.338 | No |
| 633 | 47.89 | 2.70 | 0.56 | 2.14 | 0.77 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.338 | No |
| 634 | 47.94 | 2.70 | 0.56 | 2.14 | 0.77 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.338 | No |
| 635 | 48.02 | 2.70 | 0.56 | 2.14 | 0.77 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.338 | No |
| 636 | 48.07 | 2.71 | 0.56 | 2.14 | 0.77 | 0.400 | 1.36 | 0.294 | 0.87 | 1.00 | 0.338 | No |
| 637 | 48.12 | 2.71 | 0.57 | 2.14 | 0.77 | 0.399 | 1.36 | 0.294 | 0.87 | 1.00 | 0.338 | No |
| 638 | 48.18 | 2.71 | 0.57 | 2.15 | 0.77 | 0.399 | 1.36 | 0.294 | 0.87 | 1.00 | 0.338 | No |
| 639 | 48.26 | 2.72 | 0.57 | 2.15 | 0.77 | 0.399 | 1.36 | 0.294 | 0.87 | 1.00 | 0.338 | No |
| 640 | 48.31 | 2.72 | 0.57 | 2.15 | 0.77 | 0.399 | 1.36 | 0.293 | 0.87 | 1.00 | 0.338 | No |
| 641 | 48.38 | 2.72 | 0.57 | 2.15 | 0.77 | 0.399 | 1.36 | 0.293 | 0.87 | 1.00 | 0.338 | No |
| 642 | 48.46 | 2.73 | 0.58 | 2.15 | 0.77 | 0.399 | 1.36 | 0.293 | 0.87 | 1.00 | 0.338 | No |
| 643 | 48.52 | 2.73 | 0.58 | 2.16 | 0.77 | 0.399 | 1.36 | 0.293 | 0.87 | 1.00 | 0.338 | No |
| 644 | 48.60 | 2.74 | 0.58 | 2.16 | 0.77 | 0.399 | 1.36 | 0.293 | 0.87 | 1.00 | 0.338 | No |
| 645 | 48.68 | 2.74 | 0.58 | 2.16 | 0.77 | 0.398 | 1.36 | 0.293 | 0.87 | 1.00 | 0.338 | No |
| 646 | 48.74 | 2.75 | 0.58 | 2.16 | 0.77 | 0.398 | 1.36 | 0.293 | 0.87 | 1.00 | 0.338 | No |
| 647 | 48.82 | 2.75 | 0.59 | 2.16 | 0.76 | 0.398 | 1.36 | 0.293 | 0.87 | 1.00 | 0.338 | No |
| 648 | 48.89 | 2.75 | 0.59 | 2.16 | 0.76 | 0.398 | 1.36 | 0.293 | 0.87 | 1.00 | 0.338 | No |
| 649 | 48.99 | 2.76 | 0.59 | 2.17 | 0.76 | 0.398 | 1.36 | 0.293 | 0.87 | 1.00 | 0.338 | No |
| 650 | 49.05 | 2.76 | 0.59 | 2.17 | 0.76 | 0.398 | 1.36 | 0.292 | 0.87 | 1.00 | 0.338 | No |
| 651 | 49.12 | 2.77 | 0.60 | 2.17 | 0.76 | 0.398 | 1.36 | 0.292 | 0.87 | 1.00 | 0.338 | No |
| 652 | 49.18 | 2.77 | 0.60 | 2.17 | 0.76 | 0.398 | 1.36 | 0.292 | 0.87 | 1.00 | 0.337 | No |
| 653 | 49.27 | 2.77 | 0.60 | 2.17 | 0.76 | 0.397 | 1.36 | 0.292 | 0.87 | 1.00 | 0.337 | No |
| 654 | 49.32 | 2.78 | 0.60 | 2.17 | 0.76 | 0.397 | 1.36 | 0.292 | 0.87 | 1.00 | 0.337 | No |
| 655 | 49.42 | 2.78 | 0.61 | 2.18 | 0.76 | 0.397 | 1.36 | 0.292 | 0.87 | 1.00 | 0.337 | No |
| 656 | 49.48 | 2.78 | 0.61 | 2.18 | 0.76 | 0.397 | 1.36 | 0.292 | 0.87 | 1.00 | 0.337 | No |
| 657 | 49.56 | 2.79 | 0.61 | 2.18 | 0.76 | 0.397 | 1.36 | 0.292 | 0.87 | 1.00 | 0.337 | No |
| 658 | 49.66 | 2.79 | 0.61 | 2.18 | 0.76 | 0.397 | 1.36 | 0.292 | 0.87 | 1.00 | 0.337 | No |
| 659 | 49.76 | 2.80 | 0.62 | 2.18 | 0.76 | 0.397 | 1.36 | 0.292 | 0.87 | 1.00 | 0.337 | No |
| 660 | 49.85 | 2.80 | 0.62 | 2.19 | 0.75 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 0.337 | No |
| 661 | 49.99 | 2.81 | 0.62 | 2.19 | 0.75 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 0.337 | No |
| 662 | 50.09 | 2.82 | 0.63 | 2.19 | 0.75 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 0.337 | No |
| 663 | 50.21 | 2.82 | 0.63 | 2.19 | 0.75 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 0.337 | No |
| 664 | 50.24 | 2.82 | 0.63 | 2.19 | 0.75 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 0.337 | No |
| 665 | 50.29 | 2.83 | 0.63 | 2.19 | 0.75 | 0.396 | 1.36 | 0.291 | 0.86 | 1.00 | 0.337 | No |
| 666 | 50.38 | 2.83 | 0.64 | 2.20 | 0.75 | 0.395 | 1.36 | 0.291 | 0.86 | 1.00 | 0.336 | No |
| 667 | 50.47 | 2.84 | 0.64 | 2.20 | 0.75 | 0.395 | 1.36 | 0.291 | 0.86 | 1.00 | 0.336 | No |
| 668 | 50.52 | 2.84 | 0.64 | 2.20 | 0.75 | 0.395 | 1.36 | 0.291 | 0.86 | 1.00 | 0.336 | No |
| 669 | 50.62 | 2.84 | 0.64 | 2.20 | 0.75 | 0.395 | 1.36 | 0.290 | 0.86 | 1.00 | 0.336 | No |
| 670 | 50.66 | 2.85 | 0.64 | 2.20 | 0.75 | 0.395 | 1.36 | 0.290 | 0.86 | 1.00 | 0.336 | No |
| 671 | 50.76 | 2.85 | 0.65 | 2.20 | 0.74 | 0.395 | 1.36 | 0.290 | 0.86 | 1.00 | 0.336 | No |
| 672 | 50.83 | 2.85 | 0.65 | 2.21 | 0.74 | 0.395 | 1.36 | 0.290 | 0.86 | 1.00 | 0.336 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 673 | 50.91 | 2.86 | 0.65 | 2.21 | 0.74 | 0.394 | 1.36 | 0.290 | 0.86 | 1.00 | 0.336 | No |
| 674 | 51.00 | 2.86 | 0.66 | 2.21 | 0.74 | 0.394 | 1.36 | 0.290 | 0.86 | 1.00 | 0.336 | No |
| 675 | 51.06 | 2.87 | 0.66 | 2.21 | 0.74 | 0.394 | 1.36 | 0.290 | 0.86 | 1.00 | 0.336 | No |
| 676 | 51.15 | 2.87 | 0.66 | 2.21 | 0.74 | 0.394 | 1.36 | 0.290 | 0.86 | 1.00 | 0.336 | No |
| 677 | 51.24 | 2.88 | 0.66 | 2.21 | 0.74 | 0.394 | 1.36 | 0.290 | 0.86 | 1.00 | 0.336 | No |
| 678 | 51.31 | 2.88 | 0.67 | 2.22 | 0.74 | 0.394 | 1.36 | 0.289 | 0.86 | 1.00 | 0.336 | No |
| 679 | 51.39 | 2.89 | 0.67 | 2.22 | 0.74 | 0.393 | 1.36 | 0.289 | 0.86 | 1.00 | 0.335 | No |
| 680 | 51.48 | 2.89 | 0.67 | 2.22 | 0.74 | 0.393 | 1.36 | 0.289 | 0.86 | 1.00 | 0.335 | No |
| 681 | 51.58 | 2.90 | 0.67 | 2.22 | 0.74 | 0.393 | 1.36 | 0.289 | 0.86 | 1.00 | 0.335 | No |
| 682 | 51.68 | 2.90 | 0.68 | 2.23 | 0.74 | 0.393 | 1.36 | 0.289 | 0.86 | 1.00 | 0.335 | No |
| 683 | 51.77 | 2.91 | 0.68 | 2.23 | 0.73 | 0.393 | 1.36 | 0.289 | 0.86 | 1.00 | 0.335 | No |
| 684 | 51.90 | 2.92 | 0.68 | 2.23 | 0.73 | 0.392 | 1.36 | 0.288 | 0.86 | 1.00 | 0.335 | No |
| 685 | 52.01 | 2.92 | 0.69 | 2.24 | 0.73 | 0.392 | 1.36 | 0.288 | 0.86 | 1.00 | 2.000 | Yes |
| 686 | 52.11 | 2.93 | 0.69 | 2.24 | 0.73 | 0.392 | 1.36 | 0.288 | 0.86 | 1.00 | 2.000 | Yes |
| 687 | 52.26 | 2.94 | 0.69 | 2.24 | 0.73 | 0.391 | 1.36 | 0.288 | 0.86 | 1.00 | 2.000 | Yes |
| 688 | 52.30 | 2.94 | 0.70 | 2.25 | 0.73 | 0.391 | 1.36 | 0.288 | 0.86 | 1.00 | 2.000 | Yes |
| 689 | 52.33 | 2.94 | 0.70 | 2.25 | 0.73 | 0.391 | 1.36 | 0.288 | 0.86 | 1.00 | 2.000 | Yes |
| 690 | 52.35 | 2.95 | 0.70 | 2.25 | 0.73 | 0.391 | 1.36 | 0.288 | 0.86 | 1.00 | 2.000 | Yes |
| 691 | 52.40 | 2.95 | 0.70 | 2.25 | 0.73 | 0.391 | 1.36 | 0.287 | 0.86 | 1.00 | 2.000 | Yes |
| 692 | 52.45 | 2.95 | 0.70 | 2.25 | 0.73 | 0.391 | 1.36 | 0.287 | 0.86 | 1.00 | 2.000 | Yes |
| 693 | 52.50 | 2.96 | 0.70 | 2.25 | 0.73 | 0.391 | 1.36 | 0.287 | 0.86 | 1.00 | 0.334 | No |
| 694 | 52.55 | 2.96 | 0.70 | 2.26 | 0.73 | 0.391 | 1.36 | 0.287 | 0.86 | 1.00 | 0.334 | No |
| 695 | 52.60 | 2.96 | 0.71 | 2.26 | 0.73 | 0.390 | 1.36 | 0.287 | 0.86 | 1.00 | 0.334 | No |
| 696 | 52.65 | 2.97 | 0.71 | 2.26 | 0.73 | 0.390 | 1.36 | 0.287 | 0.86 | 1.00 | 0.334 | No |
| 697 | 52.71 | 2.97 | 0.71 | 2.26 | 0.73 | 0.390 | 1.36 | 0.287 | 0.86 | 1.00 | 0.334 | No |
| 698 | 52.77 | 2.97 | 0.71 | 2.26 | 0.72 | 0.390 | 1.36 | 0.287 | 0.86 | 1.00 | 0.334 | No |
| 699 | 52.82 | 2.98 | 0.71 | 2.27 | 0.72 | 0.390 | 1.36 | 0.287 | 0.86 | 1.00 | 0.334 | No |
| 700 | 52.88 | 2.98 | 0.71 | 2.27 | 0.72 | 0.390 | 1.36 | 0.287 | 0.86 | 1.00 | 0.334 | No |
| 701 | 52.93 | 2.99 | 0.72 | 2.27 | 0.72 | 0.390 | 1.36 | 0.286 | 0.86 | 1.00 | 0.334 | No |
| 702 | 52.98 | 2.99 | 0.72 | 2.27 | 0.72 | 0.389 | 1.36 | 0.286 | 0.86 | 1.00 | 0.334 | No |
| 703 | 53.03 | 2.99 | 0.72 | 2.27 | 0.72 | 0.389 | 1.36 | 0.286 | 0.86 | 1.00 | 0.334 | No |
| 704 | 53.08 | 2.99 | 0.72 | 2.27 | 0.72 | 0.389 | 1.36 | 0.286 | 0.86 | 1.00 | 0.333 | No |
| 705 | 53.12 | 3.00 | 0.72 | 2.28 | 0.72 | 0.389 | 1.36 | 0.286 | 0.86 | 1.00 | 0.333 | No |
| 706 | 53.17 | 3.00 | 0.72 | 2.28 | 0.72 | 0.389 | 1.36 | 0.286 | 0.86 | 1.00 | 0.333 | No |
| 707 | 53.23 | 3.01 | 0.72 | 2.28 | 0.72 | 0.389 | 1.36 | 0.286 | 0.86 | 1.00 | 0.333 | No |
| 708 | 53.28 | 3.01 | 0.73 | 2.28 | 0.72 | 0.389 | 1.36 | 0.286 | 0.86 | 1.00 | 0.333 | No |
| 709 | 53.37 | 3.01 | 0.73 | 2.29 | 0.72 | 0.388 | 1.36 | 0.286 | 0.86 | 1.00 | 0.333 | No |
| 710 | 53.42 | 3.02 | 0.73 | 2.29 | 0.72 | 0.388 | 1.36 | 0.285 | 0.86 | 1.00 | 0.333 | No |
| 711 | 53.46 | 3.02 | 0.73 | 2.29 | 0.72 | 0.388 | 1.36 | 0.285 | 0.86 | 1.00 | 0.333 | No |
| 712 | 53.53 | 3.03 | 0.73 | 2.29 | 0.72 | 0.388 | 1.36 | 0.285 | 0.86 | 1.00 | 0.333 | No |
| 713 | 53.61 | 3.03 | 0.74 | 2.29 | 0.72 | 0.388 | 1.36 | 0.285 | 0.86 | 1.00 | 0.333 | No |
| 714 | 53.62 | 3.03 | 0.74 | 2.30 | 0.72 | 0.388 | 1.36 | 0.285 | 0.86 | 1.00 | 0.333 | No |
| 715 | 53.65 | 3.03 | 0.74 | 2.30 | 0.72 | 0.388 | 1.36 | 0.285 | 0.86 | 1.00 | 0.333 | No |
| 716 | 53.67 | 3.04 | 0.74 | 2.30 | 0.72 | 0.388 | 1.36 | 0.285 | 0.86 | 1.00 | 0.333 | No |
| 717 | 53.70 | 3.04 | 0.74 | 2.30 | 0.72 | 0.387 | 1.36 | 0.285 | 0.86 | 1.00 | 0.333 | No |
| 718 | 53.74 | 3.04 | 0.74 | 2.30 | 0.72 | 0.387 | 1.36 | 0.285 | 0.86 | 1.00 | 0.333 | No |
| 719 | 53.76 | 3.04 | 0.74 | 2.30 | 0.72 | 0.387 | 1.36 | 0.285 | 0.86 | 1.00 | 0.333 | No |
| 720 | 53.80 | 3.04 | 0.74 | 2.30 | 0.71 | 0.387 | 1.36 | 0.285 | 0.86 | 1.00 | 0.333 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 721 | 53.84 | 3.05 | 0.74 | 2.30 | 0.71 | 0.387 | 1.36 | 0.285 | 0.86 | 1.00 | 0.332 | No |
| 722 | 53.90 | 3.05 | 0.75 | 2.31 | 0.71 | 0.387 | 1.36 | 0.284 | 0.86 | 1.00 | 0.332 | No |
| 723 | 53.91 | 3.05 | 0.75 | 2.31 | 0.71 | 0.387 | 1.36 | 0.284 | 0.86 | 1.00 | 0.332 | No |
| 724 | 53.95 | 3.05 | 0.75 | 2.31 | 0.71 | 0.387 | 1.36 | 0.284 | 0.86 | 1.00 | 0.332 | No |
| 725 | 53.96 | 3.06 | 0.75 | 2.31 | 0.71 | 0.387 | 1.36 | 0.284 | 0.86 | 1.00 | 0.332 | No |
| 726 | 53.98 | 3.06 | 0.75 | 2.31 | 0.71 | 0.387 | 1.36 | 0.284 | 0.86 | 1.00 | 0.332 | No |
| 727 | 53.99 | 3.06 | 0.75 | 2.31 | 0.71 | 0.387 | 1.36 | 0.284 | 0.86 | 1.00 | 0.332 | No |
| 728 | 54.01 | 3.06 | 0.75 | 2.31 | 0.71 | 0.387 | 1.36 | 0.284 | 0.86 | 1.00 | 0.332 | No |
| 729 | 54.02 | 3.06 | 0.75 | 2.31 | 0.71 | 0.387 | 1.36 | 0.284 | 0.86 | 1.00 | 0.332 | No |
| 730 | 54.03 | 3.06 | 0.75 | 2.31 | 0.71 | 0.386 | 1.36 | 0.284 | 0.86 | 1.00 | 0.332 | No |
| 731 | 54.04 | 3.06 | 0.75 | 2.31 | 0.71 | 0.386 | 1.36 | 0.284 | 0.86 | 1.00 | 0.332 | No |
| 732 | 54.05 | 3.06 | 0.75 | 2.31 | 0.71 | 0.386 | 1.36 | 0.284 | 0.86 | 1.00 | 0.332 | No |
| 733 | 54.09 | 3.06 | 0.75 | 2.31 | 0.71 | 0.386 | 1.36 | 0.284 | 0.86 | 1.00 | 0.332 | No |
| 734 | 54.10 | 3.06 | 0.75 | 2.31 | 0.71 | 0.386 | 1.36 | 0.284 | 0.86 | 1.00 | 0.332 | No |
| 735 | 54.13 | 3.07 | 0.75 | 2.31 | 0.71 | 0.386 | 1.36 | 0.284 | 0.86 | 1.00 | 0.332 | No |
| 736 | 54.14 | 3.07 | 0.75 | 2.31 | 0.71 | 0.386 | 1.36 | 0.284 | 0.86 | 1.00 | 0.332 | No |
| 737 | 54.19 | 3.07 | 0.75 | 2.32 | 0.71 | 0.386 | 1.36 | 0.284 | 0.85 | 1.00 | 0.332 | No |
| 738 | 54.19 | 3.07 | 0.75 | 2.32 | 0.71 | 0.386 | 1.36 | 0.284 | 0.85 | 1.00 | 0.332 | No |
| 739 | 54.24 | 3.07 | 0.76 | 2.32 | 0.71 | 0.386 | 1.36 | 0.284 | 0.85 | 1.00 | 0.332 | No |
| 740 | 54.29 | 3.08 | 0.76 | 2.32 | 0.71 | 0.386 | 1.36 | 0.284 | 0.85 | 1.00 | 0.332 | No |
| 741 | 54.33 | 3.08 | 0.76 | 2.32 | 0.71 | 0.386 | 1.36 | 0.284 | 0.85 | 1.00 | 0.332 | No |
| 742 | 54.38 | 3.08 | 0.76 | 2.32 | 0.71 | 0.385 | 1.36 | 0.283 | 0.85 | 1.00 | 0.332 | No |
| 743 | 54.39 | 3.09 | 0.76 | 2.32 | 0.71 | 0.385 | 1.36 | 0.283 | 0.85 | 1.00 | 0.332 | No |
| 744 | 54.43 | 3.09 | 0.76 | 2.33 | 0.71 | 0.385 | 1.36 | 0.283 | 0.85 | 1.00 | 0.332 | No |
| 745 | 54.48 | 3.09 | 0.76 | 2.33 | 0.71 | 0.385 | 1.36 | 0.283 | 0.85 | 1.00 | 0.332 | No |
| 746 | 54.52 | 3.09 | 0.77 | 2.33 | 0.71 | 0.385 | 1.36 | 0.283 | 0.85 | 1.00 | 0.332 | No |
| 747 | 54.58 | 3.10 | 0.77 | 2.33 | 0.71 | 0.385 | 1.36 | 0.283 | 0.85 | 1.00 | 0.331 | No |
| 748 | 54.62 | 3.10 | 0.77 | 2.33 | 0.71 | 0.385 | 1.36 | 0.283 | 0.85 | 1.00 | 0.331 | No |
| 749 | 54.65 | 3.10 | 0.77 | 2.33 | 0.71 | 0.385 | 1.36 | 0.283 | 0.85 | 1.00 | 0.331 | No |
| 750 | 54.67 | 3.10 | 0.77 | 2.33 | 0.71 | 0.385 | 1.36 | 0.283 | 0.85 | 1.00 | 0.331 | No |
| 751 | 54.71 | 3.11 | 0.77 | 2.34 | 0.71 | 0.385 | 1.36 | 0.283 | 0.85 | 1.00 | 0.331 | No |
| 752 | 54.77 | 3.11 | 0.77 | 2.34 | 0.71 | 0.384 | 1.36 | 0.283 | 0.85 | 1.00 | 0.331 | No |
| 753 | 54.81 | 3.11 | 0.77 | 2.34 | 0.71 | 0.384 | 1.36 | 0.283 | 0.85 | 1.00 | 0.331 | No |
| 754 | 54.85 | 3.12 | 0.78 | 2.34 | 0.70 | 0.384 | 1.36 | 0.282 | 0.85 | 1.00 | 0.331 | No |
| 755 | 54.86 | 3.12 | 0.78 | 2.34 | 0.70 | 0.384 | 1.36 | 0.282 | 0.85 | 1.00 | 0.331 | No |
| 756 | 54.87 | 3.12 | 0.78 | 2.34 | 0.70 | 0.384 | 1.36 | 0.282 | 0.85 | 1.00 | 0.331 | No |
| 757 | 54.91 | 3.12 | 0.78 | 2.34 | 0.70 | 0.384 | 1.36 | 0.282 | 0.85 | 1.00 | 0.331 | No |
| 758 | 54.96 | 3.12 | 0.78 | 2.34 | 0.70 | 0.384 | 1.36 | 0.282 | 0.85 | 1.00 | 0.331 | No |
| 759 | 55.00 | 3.13 | 0.78 | 2.35 | 0.70 | 0.384 | 1.36 | 0.282 | 0.85 | 1.00 | 0.331 | No |
| 760 | 55.01 | 3.13 | 0.78 | 2.35 | 0.70 | 0.384 | 1.36 | 0.282 | 0.85 | 1.00 | 0.331 | No |
| 761 | 55.05 | 3.13 | 0.78 | 2.35 | 0.70 | 0.384 | 1.36 | 0.282 | 0.85 | 1.00 | 0.331 | No |
| 762 | 55.10 | 3.13 | 0.78 | 2.35 | 0.70 | 0.384 | 1.36 | 0.282 | 0.85 | 1.00 | 0.331 | No |
| 763 | 55.12 | 3.13 | 0.78 | 2.35 | 0.70 | 0.383 | 1.36 | 0.282 | 0.85 | 1.00 | 0.331 | No |
| 764 | 55.13 | 3.13 | 0.78 | 2.35 | 0.70 | 0.383 | 1.36 | 0.282 | 0.85 | 1.00 | 0.331 | No |
| 765 | 55.14 | 3.14 | 0.78 | 2.35 | 0.70 | 0.383 | 1.36 | 0.282 | 0.85 | 1.00 | 0.331 | No |
| 766 | 55.19 | 3.14 | 0.79 | 2.35 | 0.70 | 0.383 | 1.36 | 0.282 | 0.85 | 1.00 | 0.331 | No |
| 767 | 55.20 | 3.14 | 0.79 | 2.35 | 0.70 | 0.383 | 1.36 | 0.282 | 0.85 | 1.00 | 0.331 | No |
| 768 | 55.25 | 3.14 | 0.79 | 2.35 | 0.70 | 0.383 | 1.36 | 0.282 | 0.85 | 1.00 | 0.331 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 769 | 55.29 | 3.14 | 0.79 | 2.36 | 0.70 | 0.383 | 1.36 | 0.282 | 0.85 | 1.00 | 0.330 | No |
| 770 | 55.33 | 3.15 | 0.79 | 2.36 | 0.70 | 0.383 | 1.36 | 0.281 | 0.85 | 1.00 | 0.330 | No |
| 771 | 55.38 | 3.15 | 0.79 | 2.36 | 0.70 | 0.383 | 1.36 | 0.281 | 0.85 | 1.00 | 0.330 | No |
| 772 | 55.48 | 3.16 | 0.80 | 2.36 | 0.70 | 0.382 | 1.36 | 0.281 | 0.85 | 1.00 | 0.330 | No |
| 773 | 55.57 | 3.16 | 0.80 | 2.37 | 0.70 | 0.382 | 1.36 | 0.281 | 0.85 | 1.00 | 0.330 | No |
| 774 | 55.63 | 3.17 | 0.80 | 2.37 | 0.70 | 0.382 | 1.36 | 0.281 | 0.85 | 1.00 | 0.330 | No |
| 775 | 55.72 | 3.17 | 0.80 | 2.37 | 0.70 | 0.382 | 1.36 | 0.281 | 0.85 | 1.00 | 0.330 | No |
| 776 | 55.80 | 3.18 | 0.80 | 2.37 | 0.70 | 0.382 | 1.36 | 0.281 | 0.85 | 1.00 | 0.330 | No |
| 777 | 55.86 | 3.18 | 0.81 | 2.38 | 0.70 | 0.381 | 1.36 | 0.280 | 0.85 | 1.00 | 0.330 | No |
| 778 | 55.97 | 3.19 | 0.81 | 2.38 | 0.69 | 0.381 | 1.36 | 0.280 | 0.85 | 1.00 | 0.330 | No |
| 779 | 56.01 | 3.19 | 0.81 | 2.38 | 0.69 | 0.381 | 1.36 | 0.280 | 0.85 | 1.00 | 0.329 | No |
| 780 | 56.06 | 3.20 | 0.81 | 2.38 | 0.69 | 0.381 | 1.36 | 0.280 | 0.85 | 1.00 | 0.329 | No |
| 781 | 56.11 | 3.20 | 0.81 | 2.39 | 0.69 | 0.381 | 1.36 | 0.280 | 0.85 | 1.00 | 0.329 | No |
| 782 | 56.15 | 3.20 | 0.82 | 2.39 | 0.69 | 0.381 | 1.36 | 0.280 | 0.85 | 1.00 | 0.329 | No |
| 783 | 56.20 | 3.21 | 0.82 | 2.39 | 0.69 | 0.380 | 1.36 | 0.280 | 0.85 | 1.00 | 0.329 | No |
| 784 | 56.27 | 3.21 | 0.82 | 2.39 | 0.69 | 0.380 | 1.36 | 0.280 | 0.85 | 1.00 | 0.329 | No |
| 785 | 56.27 | 3.21 | 0.82 | 2.39 | 0.69 | 0.380 | 1.36 | 0.280 | 0.85 | 1.00 | 0.329 | No |
| 786 | 56.30 | 3.21 | 0.82 | 2.39 | 0.69 | 0.380 | 1.36 | 0.279 | 0.85 | 1.00 | 0.329 | No |
| 787 | 56.33 | 3.22 | 0.82 | 2.39 | 0.69 | 0.380 | 1.36 | 0.279 | 0.85 | 1.00 | 0.329 | No |
| 788 | 56.35 | 3.22 | 0.82 | 2.39 | 0.69 | 0.380 | 1.36 | 0.279 | 0.85 | 1.00 | 0.329 | No |
| 789 | 56.40 | 3.22 | 0.82 | 2.40 | 0.69 | 0.380 | 1.36 | 0.279 | 0.85 | 1.00 | 0.329 | No |
| 790 | 56.41 | 3.22 | 0.82 | 2.40 | 0.69 | 0.380 | 1.36 | 0.279 | 0.85 | 1.00 | 0.329 | No |
| 791 | 56.44 | 3.22 | 0.83 | 2.40 | 0.69 | 0.380 | 1.36 | 0.279 | 0.85 | 1.00 | 0.329 | No |
| 792 | 56.49 | 3.23 | 0.83 | 2.40 | 0.69 | 0.380 | 1.36 | 0.279 | 0.85 | 1.00 | 0.329 | No |
| 793 | 56.54 | 3.23 | 0.83 | 2.40 | 0.69 | 0.379 | 1.36 | 0.279 | 0.85 | 1.00 | 0.329 | No |
| 794 | 56.58 | 3.23 | 0.83 | 2.40 | 0.69 | 0.379 | 1.36 | 0.279 | 0.85 | 1.00 | 0.329 | No |
| 795 | 56.59 | 3.23 | 0.83 | 2.40 | 0.69 | 0.379 | 1.36 | 0.279 | 0.85 | 1.00 | 0.329 | No |
| 796 | 56.64 | 3.24 | 0.83 | 2.41 | 0.69 | 0.379 | 1.36 | 0.279 | 0.85 | 1.00 | 0.329 | No |
| 797 | 56.69 | 3.24 | 0.83 | 2.41 | 0.69 | 0.379 | 1.36 | 0.279 | 0.85 | 1.00 | 0.328 | No |
| 798 | 56.73 | 3.24 | 0.83 | 2.41 | 0.69 | 0.379 | 1.36 | 0.279 | 0.85 | 1.00 | 0.328 | No |
| 799 | 56.78 | 3.25 | 0.84 | 2.41 | 0.69 | 0.379 | 1.36 | 0.278 | 0.85 | 1.00 | 0.328 | No |
| 800 | 56.83 | 3.25 | 0.84 | 2.41 | 0.69 | 0.379 | 1.36 | 0.278 | 0.85 | 1.00 | 0.328 | No |
| 801 | 56.88 | 3.25 | 0.84 | 2.41 | 0.69 | 0.378 | 1.36 | 0.278 | 0.85 | 1.00 | 0.328 | No |
| 802 | 56.89 | 3.25 | 0.84 | 2.42 | 0.69 | 0.378 | 1.36 | 0.278 | 0.85 | 1.00 | 0.328 | No |
| 803 | 56.95 | 3.26 | 0.84 | 2.42 | 0.69 | 0.378 | 1.36 | 0.278 | 0.85 | 1.00 | 0.328 | No |
| 804 | 57.01 | 3.26 | 0.84 | 2.42 | 0.68 | 0.378 | 1.36 | 0.278 | 0.85 | 1.00 | 0.328 | No |
| 805 | 57.07 | 3.27 | 0.84 | 2.42 | 0.68 | 0.378 | 1.36 | 0.278 | 0.85 | 1.00 | 0.328 | No |
| 806 | 57.11 | 3.27 | 0.85 | 2.42 | 0.68 | 0.378 | 1.36 | 0.278 | 0.85 | 1.00 | 0.328 | No |
| 807 | 57.17 | 3.27 | 0.85 | 2.43 | 0.68 | 0.378 | 1.36 | 0.278 | 0.85 | 1.00 | 0.328 | No |
| 808 | 57.26 | 3.28 | 0.85 | 2.43 | 0.68 | 0.377 | 1.36 | 0.277 | 0.85 | 1.00 | 0.328 | No |
| 809 | 57.31 | 3.28 | 0.85 | 2.43 | 0.68 | 0.377 | 1.36 | 0.277 | 0.85 | 1.00 | 0.328 | No |
| 810 | 57.37 | 3.29 | 0.85 | 2.43 | 0.68 | 0.377 | 1.36 | 0.277 | 0.85 | 1.00 | 0.327 | No |
| 811 | 57.45 | 3.29 | 0.86 | 2.43 | 0.68 | 0.377 | 1.36 | 0.277 | 0.85 | 1.00 | 0.327 | No |
| 812 | 57.51 | 3.30 | 0.86 | 2.44 | 0.68 | 0.377 | 1.36 | 0.277 | 0.85 | 1.00 | 0.327 | No |
| 813 | 57.53 | 3.30 | 0.86 | 2.44 | 0.68 | 0.377 | 1.36 | 0.277 | 0.85 | 1.00 | 0.327 | No |
| 814 | 57.59 | 3.30 | 0.86 | 2.44 | 0.68 | 0.377 | 1.36 | 0.277 | 0.85 | 1.00 | 0.327 | No |
| 815 | 57.63 | 3.30 | 0.86 | 2.44 | 0.68 | 0.376 | 1.36 | 0.277 | 0.85 | 1.00 | 0.327 | No |
| 816 | 57.68 | 3.31 | 0.86 | 2.44 | 0.68 | 0.376 | 1.36 | 0.277 | 0.85 | 1.00 | 0.327 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 817 | 57.73 | 3.31 | 0.87 | 2.44 | 0.68 | 0.376 | 1.36 | 0.277 | 0.85 | 1.00 | 0.327 | No |
| 818 | 57.78 | 3.31 | 0.87 | 2.45 | 0.68 | 0.376 | 1.36 | 0.276 | 0.85 | 1.00 | 0.327 | No |
| 819 | 57.86 | 3.32 | 0.87 | 2.45 | 0.68 | 0.376 | 1.36 | 0.276 | 0.85 | 1.00 | 0.327 | No |
| 820 | 57.92 | 3.32 | 0.87 | 2.45 | 0.68 | 0.376 | 1.36 | 0.276 | 0.85 | 1.00 | 2.000 | Yes |
| 821 | 57.98 | 3.33 | 0.87 | 2.45 | 0.68 | 0.376 | 1.36 | 0.276 | 0.85 | 1.00 | 2.000 | Yes |
| 822 | 58.06 | 3.33 | 0.88 | 2.45 | 0.68 | 0.375 | 1.36 | 0.276 | 0.85 | 1.00 | 2.000 | Yes |
| 823 | 58.12 | 3.33 | 0.88 | 2.46 | 0.68 | 0.375 | 1.36 | 0.276 | 0.84 | 1.00 | 2.000 | Yes |
| 824 | 58.21 | 3.34 | 0.88 | 2.46 | 0.67 | 0.375 | 1.36 | 0.276 | 0.84 | 1.00 | 2.000 | Yes |
| 825 | 58.26 | 3.34 | 0.88 | 2.46 | 0.67 | 0.375 | 1.36 | 0.276 | 0.84 | 1.00 | 2.000 | Yes |
| 826 | 58.35 | 3.35 | 0.88 | 2.46 | 0.67 | 0.375 | 1.36 | 0.275 | 0.84 | 1.00 | 2.000 | Yes |
| 827 | 58.41 | 3.35 | 0.89 | 2.47 | 0.67 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 2.000 | Yes |
| 828 | 58.50 | 3.36 | 0.89 | 2.47 | 0.67 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 2.000 | Yes |
| 829 | 58.56 | 3.36 | 0.89 | 2.47 | 0.67 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 2.000 | Yes |
| 830 | 58.64 | 3.37 | 0.89 | 2.47 | 0.67 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 2.000 | Yes |
| 831 | 58.73 | 3.37 | 0.90 | 2.48 | 0.67 | 0.374 | 1.36 | 0.275 | 0.84 | 1.00 | 2.000 | Yes |
| 832 | 58.80 | 3.38 | 0.90 | 2.48 | 0.67 | 0.373 | 1.36 | 0.275 | 0.84 | 1.00 | 2.000 | Yes |
| 833 | 58.84 | 3.38 | 0.90 | 2.48 | 0.67 | 0.373 | 1.36 | 0.274 | 0.84 | 1.00 | 2.000 | Yes |
| 834 | 58.85 | 3.38 | 0.90 | 2.48 | 0.67 | 0.373 | 1.36 | 0.274 | 0.84 | 1.00 | 0.325 | No |
| 835 | 58.93 | 3.38 | 0.90 | 2.48 | 0.67 | 0.373 | 1.36 | 0.274 | 0.84 | 1.00 | 0.325 | No |
| 836 | 58.98 | 3.39 | 0.90 | 2.48 | 0.67 | 0.373 | 1.36 | 0.274 | 0.84 | 1.00 | 0.325 | No |
| 837 | 59.02 | 3.39 | 0.91 | 2.48 | 0.67 | 0.373 | 1.36 | 0.274 | 0.84 | 1.00 | 0.325 | No |
| 838 | 59.12 | 3.40 | 0.91 | 2.49 | 0.67 | 0.373 | 1.36 | 0.274 | 0.84 | 1.00 | 0.325 | No |
| 839 | 59.17 | 3.40 | 0.91 | 2.49 | 0.67 | 0.373 | 1.36 | 0.274 | 0.84 | 1.00 | 0.325 | No |
| 840 | 59.27 | 3.40 | 0.91 | 2.49 | 0.67 | 0.372 | 1.36 | 0.274 | 0.84 | 1.00 | 0.325 | No |
| 841 | 59.31 | 3.41 | 0.91 | 2.49 | 0.66 | 0.372 | 1.36 | 0.274 | 0.84 | 1.00 | 0.325 | No |
| 842 | 59.41 | 3.41 | 0.92 | 2.50 | 0.66 | 0.372 | 1.36 | 0.273 | 0.84 | 1.00 | 0.325 | No |
| 843 | 59.46 | 3.42 | 0.92 | 2.50 | 0.66 | 0.372 | 1.36 | 0.273 | 0.84 | 1.00 | 0.325 | No |
| 844 | 59.55 | 3.42 | 0.92 | 2.50 | 0.66 | 0.372 | 1.36 | 0.273 | 0.84 | 1.00 | 0.324 | No |
| 845 | 59.65 | 3.43 | 0.93 | 2.50 | 0.66 | 0.371 | 1.36 | 0.273 | 0.84 | 1.00 | 0.324 | No |
| 846 | 59.70 | 3.43 | 0.93 | 2.50 | 0.66 | 0.371 | 1.36 | 0.273 | 0.84 | 1.00 | 0.324 | No |
| 847 | 59.80 | 3.44 | 0.93 | 2.51 | 0.66 | 0.371 | 1.36 | 0.273 | 0.84 | 1.00 | 0.324 | No |
| 848 | 59.89 | 3.44 | 0.93 | 2.51 | 0.66 | 0.371 | 1.36 | 0.273 | 0.84 | 1.00 | 0.324 | No |
| 849 | 59.94 | 3.44 | 0.93 | 2.51 | 0.66 | 0.371 | 1.36 | 0.273 | 0.84 | 1.00 | 0.324 | No |
| 850 | 60.01 | 3.45 | 0.94 | 2.51 | 0.66 | 0.371 | 1.36 | 0.272 | 0.84 | 1.00 | 0.324 | No |
| 851 | 60.02 | 3.45 | 0.94 | 2.51 | 0.66 | 0.370 | 1.36 | 0.272 | 0.84 | 1.00 | 0.324 | No |
| 852 | 60.08 | 3.45 | 0.94 | 2.51 | 0.66 | 0.370 | 1.36 | 0.272 | 0.84 | 1.00 | 0.324 | No |
| 853 | 60.12 | 3.46 | 0.94 | 2.52 | 0.66 | 0.370 | 1.36 | 0.272 | 0.84 | 1.00 | 0.324 | No |
| 854 | 60.17 | 3.46 | 0.94 | 2.52 | 0.66 | 0.370 | 1.36 | 0.272 | 0.84 | 1.00 | 0.324 | No |
| 855 | 60.27 | 3.46 | 0.94 | 2.52 | 0.66 | 0.370 | 1.36 | 0.272 | 0.84 | 1.00 | 0.324 | No |
| 856 | 60.31 | 3.47 | 0.95 | 2.52 | 0.66 | 0.370 | 1.36 | 0.272 | 0.84 | 1.00 | 0.323 | No |
| 857 | 60.37 | 3.47 | 0.95 | 2.52 | 0.66 | 0.370 | 1.36 | 0.272 | 0.84 | 1.00 | 0.323 | No |
| 858 | 60.46 | 3.47 | 0.95 | 2.52 | 0.66 | 0.369 | 1.36 | 0.272 | 0.84 | 1.00 | 0.323 | No |
| 859 | 60.51 | 3.48 | 0.95 | 2.53 | 0.66 | 0.369 | 1.36 | 0.272 | 0.84 | 1.00 | 0.323 | No |
| 860 | 60.61 | 3.48 | 0.95 | 2.53 | 0.65 | 0.369 | 1.36 | 0.271 | 0.84 | 1.00 | 0.323 | No |
| 861 | 60.65 | 3.49 | 0.96 | 2.53 | 0.65 | 0.369 | 1.36 | 0.271 | 0.84 | 1.00 | 0.323 | No |
| 862 | 60.75 | 3.49 | 0.96 | 2.53 | 0.65 | 0.369 | 1.36 | 0.271 | 0.84 | 1.00 | 0.323 | No |
| 863 | 60.81 | 3.49 | 0.96 | 2.53 | 0.65 | 0.369 | 1.36 | 0.271 | 0.84 | 1.00 | 0.323 | No |
| 864 | 60.89 | 3.50 | 0.96 | 2.53 | 0.65 | 0.369 | 1.36 | 0.271 | 0.84 | 1.00 | 0.323 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 865 | 60.94 | 3.50 | 0.97 | 2.54 | 0.65 | 0.368 | 1.36 | 0.271 | 0.84 | 1.00 | 0.323 | No |
| 866 | 61.03 | 3.51 | 0.97 | 2.54 | 0.65 | 0.368 | 1.36 | 0.271 | 0.84 | 1.00 | 0.323 | No |
| 867 | 61.09 | 3.51 | 0.97 | 2.54 | 0.65 | 0.368 | 1.36 | 0.271 | 0.84 | 1.00 | 0.322 | No |
| 868 | 61.19 | 3.51 | 0.97 | 2.54 | 0.65 | 0.368 | 1.36 | 0.271 | 0.84 | 1.00 | 0.322 | No |
| 869 | 61.24 | 3.52 | 0.97 | 2.54 | 0.65 | 0.368 | 1.36 | 0.270 | 0.84 | 1.00 | 0.322 | No |
| 870 | 61.33 | 3.52 | 0.98 | 2.54 | 0.65 | 0.368 | 1.36 | 0.270 | 0.84 | 1.00 | 0.322 | No |
| 871 | 61.38 | 3.52 | 0.98 | 2.55 | 0.65 | 0.368 | 1.36 | 0.270 | 0.84 | 1.00 | 0.322 | No |
| 872 | 61.47 | 3.53 | 0.98 | 2.55 | 0.65 | 0.367 | 1.36 | 0.270 | 0.84 | 1.00 | 0.322 | No |
| 873 | 61.53 | 3.53 | 0.98 | 2.55 | 0.65 | 0.367 | 1.36 | 0.270 | 0.84 | 1.00 | 0.322 | No |
| 874 | 61.62 | 3.54 | 0.99 | 2.55 | 0.65 | 0.367 | 1.36 | 0.270 | 0.84 | 1.00 | 0.322 | No |
| 875 | 61.70 | 3.54 | 0.99 | 2.55 | 0.65 | 0.367 | 1.36 | 0.270 | 0.84 | 1.00 | 0.322 | No |
| 876 | 61.77 | 3.55 | 0.99 | 2.56 | 0.65 | 0.367 | 1.36 | 0.270 | 0.84 | 1.00 | 0.322 | No |
| 877 | 61.86 | 3.55 | 0.99 | 2.56 | 0.64 | 0.366 | 1.36 | 0.269 | 0.84 | 1.00 | 0.322 | No |
| 878 | 61.95 | 3.56 | 1.00 | 2.56 | 0.64 | 0.366 | 1.36 | 0.269 | 0.84 | 1.00 | 0.321 | No |
| 879 | 61.97 | 3.56 | 1.00 | 2.56 | 0.64 | 0.366 | 1.36 | 0.269 | 0.84 | 1.00 | 0.321 | No |
| 880 | 62.01 | 3.56 | 1.00 | 2.56 | 0.64 | 0.366 | 1.36 | 0.269 | 0.84 | 1.00 | 2.000 | No |
| 881 | 62.10 | 3.57 | 1.00 | 2.57 | 0.64 | 0.366 | 1.36 | 0.269 | 0.84 | 1.00 | 2.000 | Yes |
| 882 | 62.24 | 3.58 | 1.01 | 2.57 | 0.64 | 0.366 | 1.36 | 0.269 | 0.84 | 1.00 | 2.000 | Yes |
| 883 | 62.34 | 3.58 | 1.01 | 2.57 | 0.64 | 0.365 | 1.36 | 0.269 | 0.84 | 1.00 | 2.000 | Yes |
| 884 | 62.49 | 3.59 | 1.01 | 2.58 | 0.64 | 0.365 | 1.36 | 0.268 | 0.84 | 1.00 | 2.000 | Yes |
| 885 | 62.54 | 3.60 | 1.02 | 2.58 | 0.64 | 0.365 | 1.36 | 0.268 | 0.84 | 1.00 | 2.000 | Yes |
| 886 | 62.66 | 3.60 | 1.02 | 2.58 | 0.64 | 0.365 | 1.36 | 0.268 | 0.84 | 1.00 | 2.000 | Yes |
| 887 | 62.74 | 3.61 | 1.02 | 2.59 | 0.64 | 0.364 | 1.36 | 0.268 | 0.84 | 1.00 | 2.000 | Yes |
| 888 | 62.87 | 3.62 | 1.03 | 2.59 | 0.64 | 0.364 | 1.36 | 0.268 | 0.84 | 1.00 | 2.000 | No |
| 889 | 62.92 | 3.62 | 1.03 | 2.59 | 0.64 | 0.364 | 1.36 | 0.268 | 0.84 | 1.00 | 2.000 | No |
| 890 | 63.03 | 3.63 | 1.03 | 2.60 | 0.64 | 0.364 | 1.36 | 0.267 | 0.84 | 1.00 | 2.000 | No |
| 891 | 63.15 | 3.63 | 1.03 | 2.60 | 0.63 | 0.363 | 1.36 | 0.267 | 0.84 | 1.00 | 2.000 | No |
| 892 | 63.26 | 3.64 | 1.04 | 2.60 | 0.63 | 0.363 | 1.36 | 0.267 | 0.84 | 1.00 | 2.000 | No |
| 893 | 63.37 | 3.65 | 1.04 | 2.61 | 0.63 | 0.363 | 1.36 | 0.267 | 0.83 | 1.00 | 2.000 | No |
| 894 | 63.45 | 3.65 | 1.04 | 2.61 | 0.63 | 0.363 | 1.36 | 0.267 | 0.83 | 1.00 | 2.000 | No |
| 895 | 63.54 | 3.66 | 1.05 | 2.61 | 0.63 | 0.363 | 1.36 | 0.267 | 0.83 | 1.00 | 2.000 | No |
| 896 | 63.61 | 3.66 | 1.05 | 2.61 | 0.63 | 0.362 | 1.36 | 0.266 | 0.83 | 1.00 | 2.000 | Yes |
| 897 | 63.69 | 3.67 | 1.05 | 2.62 | 0.63 | 0.362 | 1.36 | 0.266 | 0.83 | 1.00 | 2.000 | Yes |
| 898 | 63.79 | 3.67 | 1.05 | 2.62 | 0.63 | 0.362 | 1.36 | 0.266 | 0.83 | 1.00 | 2.000 | Yes |
| 899 | 63.89 | 3.68 | 1.06 | 2.62 | 0.63 | 0.362 | 1.36 | 0.266 | 0.83 | 1.00 | 2.000 | Yes |
| 900 | 63.98 | 3.69 | 1.06 | 2.63 | 0.63 | 0.362 | 1.36 | 0.266 | 0.83 | 1.00 | 2.000 | Yes |
| 901 | 64.07 | 3.69 | 1.06 | 2.63 | 0.63 | 0.361 | 1.36 | 0.266 | 0.83 | 1.00 | 2.000 | Yes |
| 902 | 64.15 | 3.70 | 1.07 | 2.63 | 0.63 | 0.361 | 1.36 | 0.266 | 0.83 | 1.00 | 2.000 | Yes |
| 903 | 64.23 | 3.70 | 1.07 | 2.63 | 0.63 | 0.361 | 1.36 | 0.266 | 0.83 | 1.00 | 2.000 | No |
| 904 | 64.26 | 3.70 | 1.07 | 2.63 | 0.63 | 0.361 | 1.36 | 0.265 | 0.83 | 1.00 | 2.000 | No |
| 905 | 64.29 | 3.70 | 1.07 | 2.63 | 0.63 | 0.361 | 1.36 | 0.265 | 0.83 | 1.00 | 2.000 | No |
| 906 | 64.33 | 3.71 | 1.07 | 2.64 | 0.63 | 0.361 | 1.36 | 0.265 | 0.83 | 1.00 | 2.000 | No |
| 907 | 64.43 | 3.71 | 1.07 | 2.64 | 0.63 | 0.361 | 1.36 | 0.265 | 0.83 | 1.00 | 2.000 | No |
| 908 | 64.47 | 3.71 | 1.08 | 2.64 | 0.63 | 0.361 | 1.36 | 0.265 | 0.83 | 1.00 | 2.000 | No |
| 909 | 64.53 | 3.72 | 1.08 | 2.64 | 0.63 | 0.361 | 1.36 | 0.265 | 0.83 | 1.00 | 2.000 | No |
| 910 | 64.62 | 3.72 | 1.08 | 2.64 | 0.62 | 0.360 | 1.36 | 0.265 | 0.83 | 1.00 | 2.000 | No |
| 911 | 64.72 | 3.73 | 1.08 | 2.64 | 0.62 | 0.360 | 1.36 | 0.265 | 0.83 | 1.00 | 2.000 | No |
| 912 | 64.78 | 3.73 | 1.09 | 2.65 | 0.62 | 0.360 | 1.36 | 0.265 | 0.83 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 913 | 64.86 | 3.74 | 1.09 | 2.65 | 0.62 | 0.360 | 1.36 | 0.265 | 0.83 | 1.00 | 2.000 | No |
| 914 | 64.96 | 3.74 | 1.09 | 2.65 | 0.62 | 0.360 | 1.36 | 0.264 | 0.83 | 1.00 | 2.000 | No |
| 915 | 65.06 | 3.75 | 1.09 | 2.65 | 0.62 | 0.360 | 1.36 | 0.264 | 0.83 | 1.00 | 2.000 | No |
| 916 | 65.11 | 3.75 | 1.10 | 2.65 | 0.62 | 0.359 | 1.36 | 0.264 | 0.83 | 1.00 | 2.000 | No |
| 917 | 65.21 | 3.76 | 1.10 | 2.66 | 0.62 | 0.359 | 1.36 | 0.264 | 0.83 | 1.00 | 2.000 | No |
| 918 | 65.31 | 3.76 | 1.10 | 2.66 | 0.62 | 0.359 | 1.36 | 0.264 | 0.83 | 1.00 | 2.000 | No |
| 919 | 65.40 | 3.77 | 1.10 | 2.66 | 0.62 | 0.359 | 1.36 | 0.264 | 0.83 | 1.00 | 2.000 | No |
| 920 | 65.50 | 3.77 | 1.11 | 2.66 | 0.62 | 0.359 | 1.36 | 0.264 | 0.83 | 1.00 | 2.000 | No |
| 921 | 65.58 | 3.78 | 1.11 | 2.67 | 0.62 | 0.359 | 1.36 | 0.264 | 0.83 | 1.00 | 2.000 | No |
| 922 | 65.68 | 3.78 | 1.11 | 2.67 | 0.62 | 0.358 | 1.36 | 0.264 | 0.83 | 1.00 | 2.000 | No |
| 923 | 65.78 | 3.79 | 1.12 | 2.67 | 0.62 | 0.358 | 1.36 | 0.263 | 0.83 | 1.00 | 2.000 | No |
| 924 | 65.84 | 3.79 | 1.12 | 2.67 | 0.62 | 0.358 | 1.36 | 0.263 | 0.83 | 1.00 | 2.000 | No |
| 925 | 65.86 | 3.79 | 1.12 | 2.67 | 0.62 | 0.358 | 1.36 | 0.263 | 0.83 | 1.00 | 2.000 | No |
| 926 | 65.87 | 3.79 | 1.12 | 2.67 | 0.62 | 0.358 | 1.36 | 0.263 | 0.83 | 1.00 | 2.000 | No |
| 927 | 65.98 | 3.80 | 1.12 | 2.68 | 0.62 | 0.358 | 1.36 | 0.263 | 0.83 | 1.00 | 2.000 | No |
| 928 | 66.10 | 3.80 | 1.13 | 2.68 | 0.61 | 0.358 | 1.36 | 0.263 | 0.83 | 1.00 | 2.000 | No |
| 929 | 66.21 | 3.81 | 1.13 | 2.68 | 0.61 | 0.357 | 1.36 | 0.263 | 0.83 | 1.00 | 2.000 | No |
| 930 | 66.34 | 3.82 | 1.13 | 2.68 | 0.61 | 0.357 | 1.36 | 0.263 | 0.83 | 1.00 | 2.000 | No |
| 931 | 66.48 | 3.83 | 1.14 | 2.69 | 0.61 | 0.357 | 1.36 | 0.262 | 0.83 | 1.00 | 2.000 | No |
| 932 | 66.62 | 3.83 | 1.14 | 2.69 | 0.61 | 0.357 | 1.36 | 0.262 | 0.83 | 1.00 | 2.000 | No |
| 933 | 66.68 | 3.84 | 1.14 | 2.69 | 0.61 | 0.357 | 1.36 | 0.262 | 0.83 | 1.00 | 2.000 | No |
| 934 | 66.87 | 3.85 | 1.15 | 2.70 | 0.61 | 0.356 | 1.36 | 0.262 | 0.83 | 1.00 | 2.000 | No |
| 935 | 66.96 | 3.85 | 1.15 | 2.70 | 0.61 | 0.356 | 1.36 | 0.262 | 0.83 | 1.00 | 2.000 | No |
| 936 | 67.11 | 3.86 | 1.16 | 2.70 | 0.61 | 0.356 | 1.36 | 0.262 | 0.83 | 1.00 | 2.000 | No |
| 937 | 67.21 | 3.87 | 1.16 | 2.71 | 0.61 | 0.356 | 1.36 | 0.262 | 0.83 | 1.00 | 2.000 | No |
| 938 | 67.35 | 3.87 | 1.17 | 2.71 | 0.61 | 0.356 | 1.36 | 0.261 | 0.83 | 1.00 | 2.000 | No |
| 939 | 67.45 | 3.88 | 1.17 | 2.71 | 0.61 | 0.355 | 1.36 | 0.261 | 0.83 | 1.00 | 2.000 | No |
| 940 | 67.59 | 3.89 | 1.17 | 2.72 | 0.61 | 0.355 | 1.36 | 0.261 | 0.83 | 1.00 | 2.000 | No |
| 941 | 67.68 | 3.89 | 1.18 | 2.72 | 0.61 | 0.355 | 1.36 | 0.261 | 0.83 | 1.00 | 2.000 | Yes |
| 942 | 67.83 | 3.90 | 1.18 | 2.72 | 0.60 | 0.355 | 1.36 | 0.261 | 0.83 | 1.00 | 2.000 | Yes |
| 943 | 67.92 | 3.91 | 1.18 | 2.73 | 0.60 | 0.354 | 1.36 | 0.261 | 0.83 | 1.00 | 2.000 | Yes |
| 944 | 68.02 | 3.92 | 1.19 | 2.73 | 0.60 | 0.354 | 1.36 | 0.260 | 0.83 | 1.00 | 2.000 | Yes |
| 945 | 68.07 | 3.92 | 1.19 | 2.73 | 0.60 | 0.354 | 1.36 | 0.260 | 0.83 | 1.00 | 2.000 | Yes |
| 946 | 68.16 | 3.93 | 1.19 | 2.73 | 0.60 | 0.354 | 1.36 | 0.260 | 0.83 | 1.00 | 2.000 | No |
| 947 | 68.26 | 3.93 | 1.19 | 2.74 | 0.60 | 0.354 | 1.36 | 0.260 | 0.83 | 1.00 | 2.000 | No |
| 948 | 68.35 | 3.94 | 1.20 | 2.74 | 0.60 | 0.354 | 1.36 | 0.260 | 0.83 | 1.00 | 2.000 | No |
| 949 | 68.45 | 3.94 | 1.20 | 2.74 | 0.60 | 0.353 | 1.36 | 0.260 | 0.83 | 1.00 | 2.000 | No |
| 950 | 68.55 | 3.95 | 1.20 | 2.75 | 0.60 | 0.353 | 1.36 | 0.260 | 0.83 | 1.00 | 2.000 | No |
| 951 | 68.65 | 3.96 | 1.21 | 2.75 | 0.60 | 0.353 | 1.36 | 0.260 | 0.83 | 1.00 | 2.000 | No |
| 952 | 68.78 | 3.97 | 1.21 | 2.76 | 0.60 | 0.353 | 1.36 | 0.259 | 0.83 | 1.00 | 2.000 | No |
| 953 | 68.78 | 3.97 | 1.21 | 2.76 | 0.60 | 0.353 | 1.36 | 0.259 | 0.83 | 1.00 | 2.000 | No |
| 954 | 68.79 | 3.97 | 1.21 | 2.76 | 0.60 | 0.353 | 1.36 | 0.259 | 0.83 | 1.00 | 2.000 | No |
| 955 | 68.83 | 3.97 | 1.21 | 2.76 | 0.60 | 0.353 | 1.36 | 0.259 | 0.83 | 1.00 | 2.000 | No |
| 956 | 68.93 | 3.98 | 1.21 | 2.76 | 0.60 | 0.353 | 1.36 | 0.259 | 0.83 | 1.00 | 2.000 | No |
| 957 | 68.98 | 3.98 | 1.22 | 2.76 | 0.60 | 0.352 | 1.36 | 0.259 | 0.83 | 1.00 | 2.000 | No |
| 958 | 69.04 | 3.98 | 1.22 | 2.76 | 0.60 | 0.352 | 1.36 | 0.259 | 0.83 | 1.00 | 2.000 | No |
| 959 | 69.12 | 3.99 | 1.22 | 2.77 | 0.60 | 0.352 | 1.36 | 0.259 | 0.83 | 1.00 | 2.000 | No |
| 960 | 69.22 | 3.99 | 1.22 | 2.77 | 0.60 | 0.352 | 1.36 | 0.259 | 0.82 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 961 | 69.28 | 4.00 | 1.23 | 2.77 | 0.60 | 0.352 | 1.36 | 0.259 | 0.82 | 1.00 | 2.000 | No |
| 962 | 69.36 | 4.00 | 1.23 | 2.77 | 0.60 | 0.352 | 1.36 | 0.259 | 0.82 | 1.00 | 2.000 | No |
| 963 | 69.45 | 4.01 | 1.23 | 2.78 | 0.59 | 0.352 | 1.36 | 0.258 | 0.82 | 1.00 | 2.000 | No |
| 964 | 69.60 | 4.02 | 1.24 | 2.78 | 0.59 | 0.351 | 1.36 | 0.258 | 0.82 | 1.00 | 2.000 | No |
| 965 | 69.70 | 4.02 | 1.24 | 2.79 | 0.59 | 0.351 | 1.36 | 0.258 | 0.82 | 1.00 | 2.000 | No |
| 966 | 69.80 | 4.03 | 1.24 | 2.79 | 0.59 | 0.351 | 1.36 | 0.258 | 0.82 | 1.00 | 2.000 | No |
| 967 | 69.89 | 4.04 | 1.24 | 2.79 | 0.59 | 0.351 | 1.36 | 0.258 | 0.82 | 1.00 | 2.000 | No |
| 968 | 69.98 | 4.04 | 1.25 | 2.79 | 0.59 | 0.351 | 1.36 | 0.258 | 0.82 | 1.00 | 2.000 | No |
| 969 | 70.08 | 4.05 | 1.25 | 2.80 | 0.59 | 0.350 | 1.36 | 0.258 | 0.82 | 1.00 | 2.000 | Yes |
| 970 | 70.18 | 4.05 | 1.25 | 2.80 | 0.59 | 0.350 | 1.36 | 0.258 | 0.82 | 1.00 | 2.000 | Yes |
| 971 | 70.32 | 4.06 | 1.26 | 2.80 | 0.59 | 0.350 | 1.36 | 0.257 | 0.82 | 1.00 | 2.000 | Yes |
| 972 | 70.42 | 4.07 | 1.26 | 2.81 | 0.59 | 0.350 | 1.36 | 0.257 | 0.82 | 1.00 | 2.000 | Yes |
| 973 | 70.54 | 4.08 | 1.26 | 2.81 | 0.59 | 0.350 | 1.36 | 0.257 | 0.82 | 1.00 | 2.000 | Yes |
| 974 | 70.66 | 4.08 | 1.27 | 2.81 | 0.59 | 0.350 | 1.36 | 0.257 | 0.82 | 1.00 | 2.000 | No |
| 975 | 70.75 | 4.09 | 1.27 | 2.82 | 0.59 | 0.349 | 1.36 | 0.257 | 0.82 | 1.00 | 2.000 | No |
| 976 | 70.80 | 4.09 | 1.27 | 2.82 | 0.59 | 0.349 | 1.36 | 0.257 | 0.82 | 1.00 | 2.000 | No |
| 977 | 70.89 | 4.10 | 1.28 | 2.82 | 0.59 | 0.349 | 1.36 | 0.257 | 0.82 | 1.00 | 2.000 | No |
| 978 | 70.99 | 4.10 | 1.28 | 2.82 | 0.59 | 0.349 | 1.36 | 0.257 | 0.82 | 1.00 | 2.000 | No |
| 979 | 71.08 | 4.11 | 1.28 | 2.82 | 0.59 | 0.349 | 1.36 | 0.257 | 0.82 | 1.00 | 2.000 | No |
| 980 | 71.17 | 4.11 | 1.28 | 2.83 | 0.59 | 0.349 | 1.36 | 0.257 | 0.82 | 1.00 | 2.000 | No |
| 981 | 71.23 | 4.11 | 1.29 | 2.83 | 0.59 | 0.349 | 1.36 | 0.256 | 0.82 | 1.00 | 2.000 | No |
| 982 | 71.33 | 4.12 | 1.29 | 2.83 | 0.58 | 0.349 | 1.36 | 0.256 | 0.82 | 1.00 | 2.000 | No |
| 983 | 71.42 | 4.12 | 1.29 | 2.83 | 0.58 | 0.349 | 1.36 | 0.256 | 0.82 | 1.00 | 2.000 | No |
| 984 | 71.52 | 4.13 | 1.30 | 2.83 | 0.58 | 0.348 | 1.36 | 0.256 | 0.82 | 1.00 | 2.000 | No |
| 985 | 71.58 | 4.13 | 1.30 | 2.83 | 0.58 | 0.348 | 1.36 | 0.256 | 0.82 | 1.00 | 2.000 | No |
| 986 | 71.67 | 4.14 | 1.30 | 2.84 | 0.58 | 0.348 | 1.36 | 0.256 | 0.82 | 1.00 | 2.000 | No |
| 987 | 71.81 | 4.14 | 1.30 | 2.84 | 0.58 | 0.348 | 1.36 | 0.256 | 0.82 | 1.00 | 2.000 | No |
| 988 | 71.82 | 4.14 | 1.30 | 2.84 | 0.58 | 0.348 | 1.36 | 0.256 | 0.82 | 1.00 | 2.000 | No |
| 989 | 71.86 | 4.15 | 1.31 | 2.84 | 0.58 | 0.348 | 1.36 | 0.256 | 0.82 | 1.00 | 2.000 | No |
| 990 | 71.91 | 4.15 | 1.31 | 2.84 | 0.58 | 0.348 | 1.36 | 0.256 | 0.82 | 1.00 | 2.000 | No |
| 991 | 71.97 | 4.15 | 1.31 | 2.84 | 0.58 | 0.348 | 1.36 | 0.256 | 0.82 | 1.00 | 2.000 | No |
| 992 | 72.05 | 4.16 | 1.31 | 2.85 | 0.58 | 0.348 | 1.36 | 0.256 | 0.82 | 1.00 | 2.000 | No |
| 993 | 72.10 | 4.16 | 1.31 | 2.85 | 0.58 | 0.348 | 1.36 | 0.256 | 0.82 | 1.00 | 2.000 | No |
| 994 | 72.20 | 4.17 | 1.32 | 2.85 | 0.58 | 0.348 | 1.36 | 0.256 | 0.82 | 1.00 | 2.000 | No |
| 995 | 72.25 | 4.17 | 1.32 | 2.85 | 0.58 | 0.348 | 1.36 | 0.256 | 0.82 | 1.00 | 2.000 | No |
| 996 | 72.34 | 4.17 | 1.32 | 2.85 | 0.58 | 0.347 | 1.36 | 0.255 | 0.82 | 1.00 | 2.000 | No |
| 997 | 72.44 | 4.18 | 1.32 | 2.85 | 0.58 | 0.347 | 1.36 | 0.255 | 0.82 | 1.00 | 2.000 | No |
| 998 | 72.53 | 4.18 | 1.33 | 2.86 | 0.58 | 0.347 | 1.36 | 0.255 | 0.82 | 1.00 | 2.000 | No |
| 999 | 72.63 | 4.19 | 1.33 | 2.86 | 0.58 | 0.347 | 1.36 | 0.255 | 0.82 | 1.00 | 2.000 | No |
| 1000 | 72.69 | 4.19 | 1.33 | 2.86 | 0.58 | 0.347 | 1.36 | 0.255 | 0.82 | 1.00 | 2.000 | No |
| 1001 | 72.82 | 4.20 | 1.34 | 2.86 | 0.58 | 0.347 | 1.36 | 0.255 | 0.82 | 1.00 | 2.000 | No |
| 1002 | 72.92 | 4.20 | 1.34 | 2.87 | 0.58 | 0.347 | 1.36 | 0.255 | 0.82 | 1.00 | 2.000 | No |
| 1003 | 73.06 | 4.21 | 1.34 | 2.87 | 0.58 | 0.347 | 1.36 | 0.255 | 0.82 | 1.00 | 2.000 | No |
| 1004 | 73.16 | 4.22 | 1.35 | 2.87 | 0.58 | 0.346 | 1.36 | 0.255 | 0.82 | 1.00 | 2.000 | No |
| 1005 | 73.30 | 4.23 | 1.35 | 2.87 | 0.58 | 0.346 | 1.36 | 0.255 | 0.82 | 1.00 | 2.000 | No |
| 1006 | 73.35 | 4.23 | 1.35 | 2.88 | 0.58 | 0.346 | 1.36 | 0.255 | 0.82 | 1.00 | 2.000 | No |
| 1007 | 73.38 | 4.23 | 1.35 | 2.88 | 0.57 | 0.346 | 1.36 | 0.255 | 0.82 | 1.00 | 2.000 | No |
| 1008 | 73.47 | 4.24 | 1.36 | 2.88 | 0.57 | 0.346 | 1.36 | 0.254 | 0.82 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1009 | 73.53 | 4.24 | 1.36 | 2.88 | 0.57 | 0.346 | 1.36 | 0.254 | 0.82 | 1.00 | 2.000 | No |
| 1010 | 73.62 | 4.24 | 1.36 | 2.88 | 0.57 | 0.346 | 1.36 | 0.254 | 0.82 | 1.00 | 2.000 | No |
| 1011 | 73.71 | 4.25 | 1.36 | 2.88 | 0.57 | 0.346 | 1.36 | 0.254 | 0.82 | 1.00 | 2.000 | No |
| 1012 | 73.77 | 4.25 | 1.37 | 2.89 | 0.57 | 0.346 | 1.36 | 0.254 | 0.82 | 1.00 | 2.000 | No |
| 1013 | 73.86 | 4.26 | 1.37 | 2.89 | 0.57 | 0.346 | 1.36 | 0.254 | 0.82 | 1.00 | 2.000 | No |
| 1014 | 73.96 | 4.26 | 1.37 | 2.89 | 0.57 | 0.346 | 1.36 | 0.254 | 0.82 | 1.00 | 2.000 | No |
| 1015 | 74.06 | 4.27 | 1.37 | 2.89 | 0.57 | 0.345 | 1.36 | 0.254 | 0.82 | 1.00 | 2.000 | No |
| 1016 | 74.13 | 4.27 | 1.38 | 2.90 | 0.57 | 0.345 | 1.36 | 0.254 | 0.82 | 1.00 | 2.000 | No |
| 1017 | 74.24 | 4.28 | 1.38 | 2.90 | 0.57 | 0.345 | 1.36 | 0.254 | 0.82 | 1.00 | 2.000 | No |
| 1018 | 74.34 | 4.28 | 1.38 | 2.90 | 0.57 | 0.345 | 1.36 | 0.254 | 0.82 | 1.00 | 2.000 | No |
| 1019 | 74.44 | 4.29 | 1.39 | 2.90 | 0.57 | 0.345 | 1.36 | 0.254 | 0.82 | 1.00 | 2.000 | No |
| 1020 | 74.58 | 4.30 | 1.39 | 2.91 | 0.57 | 0.345 | 1.36 | 0.254 | 0.82 | 1.00 | 2.000 | No |
| 1021 | 74.68 | 4.30 | 1.39 | 2.91 | 0.57 | 0.345 | 1.36 | 0.253 | 0.82 | 1.00 | 2.000 | No |
| 1022 | 74.80 | 4.31 | 1.40 | 2.91 | 0.57 | 0.345 | 1.36 | 0.253 | 0.82 | 1.00 | 2.000 | No |
| 1023 | 74.92 | 4.32 | 1.40 | 2.91 | 0.57 | 0.344 | 1.36 | 0.253 | 0.82 | 1.00 | 2.000 | No |
| 1024 | 75.07 | 4.32 | 1.41 | 2.92 | 0.57 | 0.344 | 1.36 | 0.253 | 0.82 | 1.00 | 2.000 | No |
| 1025 | 75.08 | 4.32 | 1.41 | 2.92 | 0.57 | 0.344 | 1.36 | 0.253 | 0.82 | 1.00 | 2.000 | No |
| 1026 | 75.11 | 4.33 | 1.41 | 2.92 | 0.57 | 0.344 | 1.36 | 0.253 | 0.82 | 1.00 | 2.000 | No |
| 1027 | 75.16 | 4.33 | 1.41 | 2.92 | 0.57 | 0.344 | 1.36 | 0.253 | 0.82 | 1.00 | 2.000 | No |
| 1028 | 75.25 | 4.33 | 1.41 | 2.92 | 0.57 | 0.344 | 1.36 | 0.253 | 0.82 | 1.00 | 2.000 | No |
| 1029 | 75.32 | 4.34 | 1.41 | 2.92 | 0.57 | 0.344 | 1.36 | 0.253 | 0.82 | 1.00 | 2.000 | No |
| 1030 | 75.40 | 4.34 | 1.42 | 2.93 | 0.57 | 0.344 | 1.36 | 0.253 | 0.82 | 1.00 | 2.000 | No |
| 1031 | 75.50 | 4.35 | 1.42 | 2.93 | 0.57 | 0.344 | 1.36 | 0.253 | 0.82 | 1.00 | 2.000 | No |
| 1032 | 75.59 | 4.35 | 1.42 | 2.93 | 0.57 | 0.344 | 1.36 | 0.253 | 0.82 | 1.00 | 2.000 | No |
| 1033 | 75.69 | 4.36 | 1.43 | 2.93 | 0.56 | 0.344 | 1.36 | 0.253 | 0.82 | 1.00 | 2.000 | No |
| 1034 | 75.78 | 4.36 | 1.43 | 2.93 | 0.56 | 0.344 | 1.36 | 0.253 | 0.82 | 1.00 | 2.000 | No |
| 1035 | 75.88 | 4.37 | 1.43 | 2.94 | 0.56 | 0.343 | 1.36 | 0.253 | 0.82 | 1.00 | 2.000 | No |
| 1036 | 75.96 | 4.37 | 1.43 | 2.94 | 0.56 | 0.343 | 1.36 | 0.252 | 0.82 | 1.00 | 2.000 | No |
| 1037 | 76.05 | 4.38 | 1.44 | 2.94 | 0.56 | 0.343 | 1.36 | 0.252 | 0.82 | 1.00 | 2.000 | No |
| 1038 | 76.14 | 4.38 | 1.44 | 2.94 | 0.56 | 0.343 | 1.36 | 0.252 | 0.81 | 1.00 | 2.000 | No |
| 1039 | 76.26 | 4.39 | 1.44 | 2.95 | 0.56 | 0.343 | 1.36 | 0.252 | 0.81 | 1.00 | 2.000 | No |
| 1040 | 76.36 | 4.39 | 1.45 | 2.95 | 0.56 | 0.343 | 1.36 | 0.252 | 0.81 | 1.00 | 2.000 | No |
| 1041 | 76.41 | 4.40 | 1.45 | 2.95 | 0.56 | 0.343 | 1.36 | 0.252 | 0.81 | 1.00 | 2.000 | No |
| 1042 | 76.51 | 4.40 | 1.45 | 2.95 | 0.56 | 0.343 | 1.36 | 0.252 | 0.81 | 1.00 | 2.000 | No |
| 1043 | 76.65 | 4.41 | 1.46 | 2.95 | 0.56 | 0.343 | 1.36 | 0.252 | 0.81 | 1.00 | 2.000 | No |
| 1044 | 76.72 | 4.41 | 1.46 | 2.96 | 0.56 | 0.343 | 1.36 | 0.252 | 0.81 | 1.00 | 2.000 | No |
| 1045 | 76.79 | 4.42 | 1.46 | 2.96 | 0.56 | 0.343 | 1.36 | 0.252 | 0.81 | 1.00 | 2.000 | No |
| 1046 | 76.89 | 4.42 | 1.46 | 2.96 | 0.56 | 0.343 | 1.36 | 0.252 | 0.81 | 1.00 | 2.000 | No |
| 1047 | 76.98 | 4.43 | 1.47 | 2.96 | 0.56 | 0.342 | 1.36 | 0.252 | 0.81 | 1.00 | 2.000 | No |
| 1048 | 77.08 | 4.43 | 1.47 | 2.96 | 0.56 | 0.342 | 1.36 | 0.252 | 0.81 | 1.00 | 2.000 | No |
| 1049 | 77.18 | 4.44 | 1.47 | 2.97 | 0.56 | 0.342 | 1.36 | 0.252 | 0.81 | 1.00 | 2.000 | No |
| 1050 | 77.28 | 4.44 | 1.48 | 2.97 | 0.56 | 0.342 | 1.36 | 0.252 | 0.81 | 1.00 | 2.000 | No |
| 1051 | 77.37 | 4.45 | 1.48 | 2.97 | 0.56 | 0.342 | 1.36 | 0.252 | 0.81 | 1.00 | 2.000 | No |
| 1052 | 77.42 | 4.45 | 1.48 | 2.97 | 0.56 | 0.342 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | No |
| 1053 | 77.42 | 4.45 | 1.48 | 2.97 | 0.56 | 0.342 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | No |
| 1054 | 77.44 | 4.45 | 1.48 | 2.97 | 0.56 | 0.342 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | No |
| 1055 | 77.48 | 4.46 | 1.48 | 2.98 | 0.56 | 0.342 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | No |
| 1056 | 77.52 | 4.46 | 1.48 | 2.98 | 0.56 | 0.342 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1057 | 77.54 | 4.46 | 1.48 | 2.98 | 0.56 | 0.342 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | No |
| 1058 | 77.57 | 4.46 | 1.48 | 2.98 | 0.56 | 0.342 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | No |
| 1059 | 77.62 | 4.47 | 1.49 | 2.98 | 0.56 | 0.342 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | No |
| 1060 | 77.65 | 4.47 | 1.49 | 2.98 | 0.56 | 0.342 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | No |
| 1061 | 77.67 | 4.47 | 1.49 | 2.98 | 0.56 | 0.342 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | No |
| 1062 | 77.71 | 4.47 | 1.49 | 2.98 | 0.56 | 0.342 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | No |
| 1063 | 77.71 | 4.47 | 1.49 | 2.98 | 0.56 | 0.342 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | No |
| 1064 | 77.76 | 4.47 | 1.49 | 2.98 | 0.56 | 0.342 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | No |
| 1065 | 77.81 | 4.48 | 1.49 | 2.99 | 0.56 | 0.342 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | No |
| 1066 | 77.90 | 4.48 | 1.49 | 2.99 | 0.56 | 0.341 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | No |
| 1067 | 77.95 | 4.49 | 1.50 | 2.99 | 0.56 | 0.341 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | No |
| 1068 | 78.01 | 4.49 | 1.50 | 2.99 | 0.56 | 0.341 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | No |
| 1069 | 78.10 | 4.49 | 1.50 | 2.99 | 0.56 | 0.341 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | No |
| 1070 | 78.16 | 4.50 | 1.50 | 3.00 | 0.55 | 0.341 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | No |
| 1071 | 78.24 | 4.50 | 1.51 | 3.00 | 0.55 | 0.341 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | Yes |
| 1072 | 78.29 | 4.51 | 1.51 | 3.00 | 0.55 | 0.341 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | Yes |
| 1073 | 78.39 | 4.51 | 1.51 | 3.00 | 0.55 | 0.341 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | Yes |
| 1074 | 78.47 | 4.52 | 1.51 | 3.00 | 0.55 | 0.341 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | Yes |
| 1075 | 78.53 | 4.52 | 1.51 | 3.01 | 0.55 | 0.341 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | Yes |
| 1076 | 78.62 | 4.53 | 1.52 | 3.01 | 0.55 | 0.341 | 1.36 | 0.251 | 0.81 | 1.00 | 2.000 | Yes |
| 1077 | 78.68 | 4.53 | 1.52 | 3.01 | 0.55 | 0.341 | 1.36 | 0.250 | 0.81 | 1.00 | 2.000 | Yes |
| 1078 | 78.69 | 4.53 | 1.52 | 3.01 | 0.55 | 0.341 | 1.36 | 0.250 | 0.81 | 1.00 | 2.000 | Yes |
| 1079 | 78.78 | 4.54 | 1.52 | 3.01 | 0.55 | 0.341 | 1.36 | 0.250 | 0.81 | 1.00 | 2.000 | No |
| 1080 | 78.81 | 4.54 | 1.52 | 3.02 | 0.55 | 0.340 | 1.36 | 0.250 | 0.81 | 1.00 | 2.000 | No |
| 1081 | 78.92 | 4.55 | 1.53 | 3.02 | 0.55 | 0.340 | 1.36 | 0.250 | 0.81 | 1.00 | 2.000 | No |
| 1082 | 79.03 | 4.55 | 1.53 | 3.02 | 0.55 | 0.340 | 1.36 | 0.250 | 0.81 | 1.00 | 2.000 | No |
| 1083 | 79.16 | 4.56 | 1.53 | 3.03 | 0.55 | 0.340 | 1.36 | 0.250 | 0.81 | 1.00 | 2.000 | Yes |
| 1084 | 79.26 | 4.57 | 1.54 | 3.03 | 0.55 | 0.340 | 1.36 | 0.250 | 0.81 | 1.00 | 2.000 | Yes |
| 1085 | 79.35 | 4.57 | 1.54 | 3.03 | 0.55 | 0.340 | 1.36 | 0.250 | 0.81 | 1.00 | 2.000 | Yes |
| 1086 | 79.45 | 4.58 | 1.54 | 3.04 | 0.55 | 0.340 | 1.36 | 0.250 | 0.81 | 1.00 | 2.000 | Yes |
| 1087 | 79.54 | 4.58 | 1.55 | 3.04 | 0.55 | 0.340 | 1.36 | 0.250 | 0.81 | 1.00 | 2.000 | No |
| 1088 | 79.64 | 4.59 | 1.55 | 3.04 | 0.55 | 0.340 | 1.36 | 0.250 | 0.81 | 1.00 | 2.000 | No |
| 1089 | 79.74 | 4.60 | 1.55 | 3.05 | 0.55 | 0.339 | 1.36 | 0.250 | 0.81 | 1.00 | 2.000 | No |
| 1090 | 79.88 | 4.61 | 1.56 | 3.05 | 0.55 | 0.339 | 1.36 | 0.249 | 0.81 | 1.00 | 2.000 | No |
| 1091 | 79.98 | 4.61 | 1.56 | 3.05 | 0.55 | 0.339 | 1.36 | 0.249 | 0.81 | 1.00 | 2.000 | No |
| 1092 | 80.12 | 4.62 | 1.56 | 3.06 | 0.55 | 0.339 | 1.36 | 0.249 | 0.81 | 1.00 | 2.000 | No |
| 1093 | 80.22 | 4.63 | 1.57 | 3.06 | 0.55 | 0.339 | 1.36 | 0.249 | 0.81 | 1.00 | 2.000 | No |
| 1094 | 80.36 | 4.64 | 1.57 | 3.07 | 0.55 | 0.339 | 1.36 | 0.249 | 0.81 | 1.00 | 2.000 | No |
| 1095 | 80.46 | 4.64 | 1.57 | 3.07 | 0.55 | 0.339 | 1.36 | 0.249 | 0.81 | 1.00 | 2.000 | No |
| 1096 | 80.60 | 4.65 | 1.58 | 3.07 | 0.55 | 0.338 | 1.36 | 0.249 | 0.81 | 1.00 | 2.000 | No |
| 1097 | 80.70 | 4.66 | 1.58 | 3.08 | 0.55 | 0.338 | 1.36 | 0.249 | 0.81 | 1.00 | 2.000 | No |
| 1098 | 80.83 | 4.67 | 1.59 | 3.08 | 0.55 | 0.338 | 1.36 | 0.249 | 0.81 | 1.00 | 2.000 | Yes |
| 1099 | 80.94 | 4.67 | 1.59 | 3.09 | 0.54 | 0.338 | 1.36 | 0.249 | 0.81 | 1.00 | 2.000 | Yes |
| 1100 | 81.01 | 4.68 | 1.59 | 3.09 | 0.54 | 0.338 | 1.36 | 0.249 | 0.81 | 1.00 | 2.000 | Yes |
| 1101 | 81.04 | 4.68 | 1.59 | 3.09 | 0.54 | 0.338 | 1.36 | 0.249 | 0.81 | 1.00 | 2.000 | Yes |
| 1102 | 81.09 | 4.68 | 1.59 | 3.09 | 0.54 | 0.338 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | Yes |
| 1103 | 81.13 | 4.69 | 1.60 | 3.09 | 0.54 | 0.338 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | Yes |
| 1104 | 81.18 | 4.69 | 1.60 | 3.09 | 0.54 | 0.338 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | Yes |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1105 | 81.23 | 4.69 | 1.60 | 3.09 | 0.54 | 0.338 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | Yes |
| 1106 | 81.28 | 4.70 | 1.60 | 3.10 | 0.54 | 0.338 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | Yes |
| 1107 | 81.33 | 4.70 | 1.60 | 3.10 | 0.54 | 0.338 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | Yes |
| 1108 | 81.37 | 4.70 | 1.60 | 3.10 | 0.54 | 0.338 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | Yes |
| 1109 | 81.42 | 4.70 | 1.60 | 3.10 | 0.54 | 0.338 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | Yes |
| 1110 | 81.47 | 4.71 | 1.61 | 3.10 | 0.54 | 0.338 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | Yes |
| 1111 | 81.52 | 4.71 | 1.61 | 3.10 | 0.54 | 0.338 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | Yes |
| 1112 | 81.56 | 4.71 | 1.61 | 3.10 | 0.54 | 0.338 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | Yes |
| 1113 | 81.61 | 4.72 | 1.61 | 3.11 | 0.54 | 0.337 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | No |
| 1114 | 81.64 | 4.72 | 1.61 | 3.11 | 0.54 | 0.337 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | No |
| 1115 | 81.70 | 4.72 | 1.61 | 3.11 | 0.54 | 0.337 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | No |
| 1116 | 81.75 | 4.73 | 1.61 | 3.11 | 0.54 | 0.337 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | No |
| 1117 | 81.79 | 4.73 | 1.62 | 3.11 | 0.54 | 0.337 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | No |
| 1118 | 81.82 | 4.73 | 1.62 | 3.11 | 0.54 | 0.337 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | No |
| 1119 | 81.86 | 4.73 | 1.62 | 3.11 | 0.54 | 0.337 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | No |
| 1120 | 81.91 | 4.74 | 1.62 | 3.12 | 0.54 | 0.337 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | No |
| 1121 | 81.95 | 4.74 | 1.62 | 3.12 | 0.54 | 0.337 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | No |
| 1122 | 82.00 | 4.74 | 1.62 | 3.12 | 0.54 | 0.337 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | No |
| 1123 | 82.09 | 4.75 | 1.63 | 3.12 | 0.54 | 0.337 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | No |
| 1124 | 82.15 | 4.75 | 1.63 | 3.12 | 0.54 | 0.337 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | No |
| 1125 | 82.19 | 4.75 | 1.63 | 3.12 | 0.54 | 0.337 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | No |
| 1126 | 82.26 | 4.76 | 1.63 | 3.13 | 0.54 | 0.337 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | No |
| 1127 | 82.34 | 4.76 | 1.63 | 3.13 | 0.54 | 0.337 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | No |
| 1128 | 82.39 | 4.76 | 1.63 | 3.13 | 0.54 | 0.337 | 1.36 | 0.248 | 0.81 | 1.00 | 2.000 | No |
| 1129 | 82.48 | 4.77 | 1.64 | 3.13 | 0.54 | 0.337 | 1.36 | 0.248 | 0.80 | 1.00 | 2.000 | No |
| 1130 | 82.58 | 4.77 | 1.64 | 3.13 | 0.54 | 0.337 | 1.36 | 0.248 | 0.80 | 1.00 | 2.000 | No |
| 1131 | 82.62 | 4.78 | 1.64 | 3.13 | 0.54 | 0.337 | 1.36 | 0.248 | 0.80 | 1.00 | 2.000 | No |
| 1132 | 82.70 | 4.78 | 1.64 | 3.14 | 0.54 | 0.337 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1133 | 82.77 | 4.78 | 1.65 | 3.14 | 0.54 | 0.337 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1134 | 82.87 | 4.79 | 1.65 | 3.14 | 0.54 | 0.336 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1135 | 82.96 | 4.80 | 1.65 | 3.14 | 0.54 | 0.336 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1136 | 83.06 | 4.80 | 1.66 | 3.15 | 0.54 | 0.336 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1137 | 83.16 | 4.81 | 1.66 | 3.15 | 0.54 | 0.336 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1138 | 83.25 | 4.81 | 1.66 | 3.15 | 0.54 | 0.336 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1139 | 83.34 | 4.82 | 1.66 | 3.15 | 0.54 | 0.336 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1140 | 83.44 | 4.82 | 1.67 | 3.15 | 0.54 | 0.336 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1141 | 83.54 | 4.83 | 1.67 | 3.16 | 0.54 | 0.336 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1142 | 83.64 | 4.83 | 1.67 | 3.16 | 0.54 | 0.336 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1143 | 83.73 | 4.84 | 1.68 | 3.16 | 0.54 | 0.336 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1144 | 83.83 | 4.84 | 1.68 | 3.16 | 0.54 | 0.336 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1145 | 83.85 | 4.85 | 1.68 | 3.17 | 0.54 | 0.336 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1146 | 83.89 | 4.85 | 1.68 | 3.17 | 0.54 | 0.336 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1147 | 83.94 | 4.85 | 1.68 | 3.17 | 0.54 | 0.336 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1148 | 84.04 | 4.86 | 1.69 | 3.17 | 0.54 | 0.336 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1149 | 84.09 | 4.86 | 1.69 | 3.17 | 0.54 | 0.336 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1150 | 84.13 | 4.86 | 1.69 | 3.17 | 0.53 | 0.336 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1151 | 84.18 | 4.87 | 1.69 | 3.17 | 0.53 | 0.336 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1152 | 84.25 | 4.87 | 1.69 | 3.18 | 0.53 | 0.336 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1153 | 84.33 | 4.87 | 1.69 | 3.18 | 0.53 | 0.335 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1154 | 84.37 | 4.88 | 1.70 | 3.18 | 0.53 | 0.335 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1155 | 84.46 | 4.88 | 1.70 | 3.18 | 0.53 | 0.335 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1156 | 84.52 | 4.89 | 1.70 | 3.18 | 0.53 | 0.335 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1157 | 84.57 | 4.89 | 1.70 | 3.19 | 0.53 | 0.335 | 1.36 | 0.247 | 0.80 | 1.00 | 2.000 | No |
| 1158 | 84.67 | 4.89 | 1.71 | 3.19 | 0.53 | 0.335 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1159 | 84.71 | 4.90 | 1.71 | 3.19 | 0.53 | 0.335 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1160 | 84.81 | 4.90 | 1.71 | 3.19 | 0.53 | 0.335 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1161 | 84.86 | 4.91 | 1.71 | 3.19 | 0.53 | 0.335 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1162 | 84.91 | 4.91 | 1.71 | 3.20 | 0.53 | 0.335 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1163 | 85.00 | 4.91 | 1.72 | 3.20 | 0.53 | 0.335 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1164 | 85.05 | 4.92 | 1.72 | 3.20 | 0.53 | 0.335 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1165 | 85.15 | 4.92 | 1.72 | 3.20 | 0.53 | 0.335 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1166 | 85.19 | 4.93 | 1.72 | 3.20 | 0.53 | 0.335 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1167 | 85.29 | 4.93 | 1.73 | 3.21 | 0.53 | 0.335 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1168 | 85.35 | 4.94 | 1.73 | 3.21 | 0.53 | 0.335 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1169 | 85.42 | 4.94 | 1.73 | 3.21 | 0.53 | 0.335 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1170 | 85.48 | 4.94 | 1.73 | 3.21 | 0.53 | 0.335 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1171 | 85.55 | 4.95 | 1.73 | 3.21 | 0.53 | 0.335 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1172 | 85.63 | 4.95 | 1.74 | 3.22 | 0.53 | 0.335 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1173 | 85.68 | 4.95 | 1.74 | 3.22 | 0.53 | 0.335 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1174 | 85.77 | 4.96 | 1.74 | 3.22 | 0.53 | 0.334 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1175 | 85.82 | 4.96 | 1.74 | 3.22 | 0.53 | 0.334 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1176 | 85.89 | 4.97 | 1.74 | 3.22 | 0.53 | 0.334 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1177 | 85.96 | 4.97 | 1.75 | 3.22 | 0.53 | 0.334 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1178 | 86.03 | 4.97 | 1.75 | 3.23 | 0.53 | 0.334 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1179 | 86.11 | 4.98 | 1.75 | 3.23 | 0.53 | 0.334 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1180 | 86.16 | 4.98 | 1.75 | 3.23 | 0.53 | 0.334 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1181 | 86.25 | 4.99 | 1.76 | 3.23 | 0.53 | 0.334 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1182 | 86.36 | 4.99 | 1.76 | 3.23 | 0.53 | 0.334 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1183 | 86.50 | 5.00 | 1.76 | 3.24 | 0.53 | 0.334 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1184 | 86.51 | 5.00 | 1.76 | 3.24 | 0.53 | 0.334 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1185 | 86.52 | 5.00 | 1.76 | 3.24 | 0.53 | 0.334 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1186 | 86.57 | 5.01 | 1.76 | 3.24 | 0.53 | 0.334 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1187 | 86.65 | 5.01 | 1.77 | 3.24 | 0.53 | 0.334 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1188 | 86.71 | 5.01 | 1.77 | 3.24 | 0.53 | 0.334 | 1.36 | 0.246 | 0.80 | 1.00 | 2.000 | No |
| 1189 | 86.80 | 5.02 | 1.77 | 3.25 | 0.53 | 0.334 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1190 | 86.90 | 5.02 | 1.78 | 3.25 | 0.53 | 0.334 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1191 | 86.99 | 5.03 | 1.78 | 3.25 | 0.53 | 0.334 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1192 | 87.04 | 5.03 | 1.78 | 3.25 | 0.53 | 0.334 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1193 | 87.14 | 5.04 | 1.78 | 3.25 | 0.53 | 0.334 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1194 | 87.19 | 5.04 | 1.78 | 3.26 | 0.53 | 0.334 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1195 | 87.28 | 5.04 | 1.79 | 3.26 | 0.53 | 0.334 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1196 | 87.38 | 5.05 | 1.79 | 3.26 | 0.53 | 0.334 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1197 | 87.43 | 5.05 | 1.79 | 3.26 | 0.53 | 0.334 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1198 | 87.52 | 5.06 | 1.79 | 3.26 | 0.53 | 0.334 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1199 | 87.61 | 5.06 | 1.80 | 3.26 | 0.53 | 0.334 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1200 | 87.66 | 5.07 | 1.80 | 3.27 | 0.53 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1201 | 87.76 | 5.07 | 1.80 | 3.27 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1202 | 87.84 | 5.07 | 1.80 | 3.27 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1203 | 87.91 | 5.08 | 1.81 | 3.27 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1204 | 88.00 | 5.08 | 1.81 | 3.27 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1205 | 88.11 | 5.09 | 1.81 | 3.28 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1206 | 88.19 | 5.09 | 1.82 | 3.28 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1207 | 88.25 | 5.10 | 1.82 | 3.28 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1208 | 88.34 | 5.10 | 1.82 | 3.28 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1209 | 88.44 | 5.11 | 1.82 | 3.28 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1210 | 88.54 | 5.11 | 1.83 | 3.29 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1211 | 88.64 | 5.12 | 1.83 | 3.29 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1212 | 88.72 | 5.12 | 1.83 | 3.29 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1213 | 88.82 | 5.13 | 1.84 | 3.29 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1214 | 88.91 | 5.13 | 1.84 | 3.29 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1215 | 89.01 | 5.14 | 1.84 | 3.30 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1216 | 89.10 | 5.14 | 1.84 | 3.30 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1217 | 89.19 | 5.15 | 1.85 | 3.30 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1218 | 89.30 | 5.15 | 1.85 | 3.30 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1219 | 89.39 | 5.16 | 1.85 | 3.31 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1220 | 89.49 | 5.16 | 1.86 | 3.31 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1221 | 89.59 | 5.17 | 1.86 | 3.31 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1222 | 89.69 | 5.17 | 1.86 | 3.31 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1223 | 89.73 | 5.18 | 1.86 | 3.31 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1224 | 89.78 | 5.18 | 1.87 | 3.31 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1225 | 89.83 | 5.18 | 1.87 | 3.32 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1226 | 89.88 | 5.19 | 1.87 | 3.32 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1227 | 89.93 | 5.19 | 1.87 | 3.32 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1228 | 90.00 | 5.19 | 1.87 | 3.32 | 0.52 | 0.333 | 1.36 | 0.245 | 0.80 | 1.00 | 2.000 | No |
| 1229 | 90.07 | 5.20 | 1.87 | 3.32 | 0.52 | 0.333 | 1.36 | 0.244 | 0.80 | 1.00 | 2.000 | No |
| 1230 | 90.12 | 5.20 | 1.88 | 3.32 | 0.52 | 0.332 | 1.36 | 0.244 | 0.80 | 1.00 | 2.000 | No |
| 1231 | 90.22 | 5.20 | 1.88 | 3.33 | 0.52 | 0.332 | 1.36 | 0.244 | 0.80 | 1.00 | 2.000 | No |
| 1232 | 90.27 | 5.21 | 1.88 | 3.33 | 0.52 | 0.332 | 1.36 | 0.244 | 0.80 | 1.00 | 2.000 | No |
| 1233 | 90.36 | 5.21 | 1.88 | 3.33 | 0.52 | 0.332 | 1.36 | 0.244 | 0.80 | 1.00 | 2.000 | No |
| 1234 | 90.46 | 5.22 | 1.89 | 3.33 | 0.52 | 0.332 | 1.36 | 0.244 | 0.80 | 1.00 | 2.000 | No |
| 1235 | 90.50 | 5.22 | 1.89 | 3.33 | 0.52 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1236 | 90.61 | 5.23 | 1.89 | 3.34 | 0.52 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1237 | 90.66 | 5.23 | 1.89 | 3.34 | 0.52 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1238 | 90.75 | 5.23 | 1.90 | 3.34 | 0.52 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1239 | 90.84 | 5.24 | 1.90 | 3.34 | 0.52 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1240 | 90.89 | 5.24 | 1.90 | 3.34 | 0.52 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1241 | 90.99 | 5.25 | 1.90 | 3.35 | 0.52 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1242 | 91.04 | 5.25 | 1.90 | 3.35 | 0.52 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1243 | 91.14 | 5.26 | 1.91 | 3.35 | 0.52 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1244 | 91.22 | 5.26 | 1.91 | 3.35 | 0.52 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1245 | 91.28 | 5.26 | 1.91 | 3.35 | 0.52 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1246 | 91.37 | 5.27 | 1.91 | 3.35 | 0.52 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1247 | 91.47 | 5.28 | 1.92 | 3.36 | 0.52 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1248 | 91.61 | 5.28 | 1.92 | 3.36 | 0.52 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1249 | 91.71 | 5.29 | 1.93 | 3.36 | 0.52 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1250 | 91.81 | 5.29 | 1.93 | 3.37 | 0.52 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1251 | 91.87 | 5.30 | 1.93 | 3.37 | 0.51 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1252 | 92.00 | 5.30 | 1.93 | 3.37 | 0.51 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1253 | 92.10 | 5.31 | 1.94 | 3.37 | 0.51 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1254 | 92.20 | 5.32 | 1.94 | 3.37 | 0.51 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1255 | 92.33 | 5.32 | 1.94 | 3.38 | 0.51 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1256 | 92.38 | 5.33 | 1.95 | 3.38 | 0.51 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1257 | 92.43 | 5.33 | 1.95 | 3.38 | 0.51 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1258 | 92.48 | 5.33 | 1.95 | 3.38 | 0.51 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1259 | 92.56 | 5.33 | 1.95 | 3.38 | 0.51 | 0.332 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1260 | 92.63 | 5.34 | 1.95 | 3.38 | 0.51 | 0.331 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1261 | 92.67 | 5.34 | 1.96 | 3.39 | 0.51 | 0.331 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1262 | 92.72 | 5.34 | 1.96 | 3.39 | 0.51 | 0.331 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1263 | 92.77 | 5.35 | 1.96 | 3.39 | 0.51 | 0.331 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1264 | 92.86 | 5.35 | 1.96 | 3.39 | 0.51 | 0.331 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1265 | 92.92 | 5.35 | 1.96 | 3.39 | 0.51 | 0.331 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1266 | 92.97 | 5.36 | 1.96 | 3.39 | 0.51 | 0.331 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1267 | 93.05 | 5.36 | 1.97 | 3.39 | 0.51 | 0.331 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1268 | 93.10 | 5.37 | 1.97 | 3.40 | 0.51 | 0.331 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1269 | 93.16 | 5.37 | 1.97 | 3.40 | 0.51 | 0.331 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1270 | 93.25 | 5.37 | 1.97 | 3.40 | 0.51 | 0.331 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1271 | 93.35 | 5.38 | 1.98 | 3.40 | 0.51 | 0.331 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1272 | 93.40 | 5.38 | 1.98 | 3.40 | 0.51 | 0.331 | 1.36 | 0.244 | 0.79 | 1.00 | 2.000 | No |
| 1273 | 93.49 | 5.39 | 1.98 | 3.41 | 0.51 | 0.331 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1274 | 93.56 | 5.39 | 1.98 | 3.41 | 0.51 | 0.331 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1275 | 93.64 | 5.40 | 1.99 | 3.41 | 0.51 | 0.331 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1276 | 93.73 | 5.40 | 1.99 | 3.41 | 0.51 | 0.331 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1277 | 93.83 | 5.41 | 1.99 | 3.41 | 0.51 | 0.331 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1278 | 93.88 | 5.41 | 1.99 | 3.42 | 0.51 | 0.331 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1279 | 93.97 | 5.41 | 2.00 | 3.42 | 0.51 | 0.331 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1280 | 94.07 | 5.42 | 2.00 | 3.42 | 0.51 | 0.331 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1281 | 94.17 | 5.43 | 2.00 | 3.42 | 0.51 | 0.331 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1282 | 94.26 | 5.43 | 2.01 | 3.43 | 0.51 | 0.331 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1283 | 94.36 | 5.44 | 2.01 | 3.43 | 0.51 | 0.331 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1284 | 94.45 | 5.44 | 2.01 | 3.43 | 0.51 | 0.331 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1285 | 94.55 | 5.45 | 2.01 | 3.43 | 0.51 | 0.331 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1286 | 94.64 | 5.45 | 2.02 | 3.44 | 0.51 | 0.331 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1287 | 94.72 | 5.46 | 2.02 | 3.44 | 0.51 | 0.331 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1288 | 94.74 | 5.46 | 2.02 | 3.44 | 0.51 | 0.331 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1289 | 94.77 | 5.46 | 2.02 | 3.44 | 0.51 | 0.331 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1290 | 94.85 | 5.47 | 2.02 | 3.44 | 0.51 | 0.331 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1291 | 94.90 | 5.47 | 2.02 | 3.44 | 0.51 | 0.331 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1292 | 94.95 | 5.47 | 2.03 | 3.45 | 0.51 | 0.331 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1293 | 95.01 | 5.48 | 2.03 | 3.45 | 0.51 | 0.330 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1294 | 95.09 | 5.48 | 2.03 | 3.45 | 0.51 | 0.330 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1295 | 95.14 | 5.48 | 2.03 | 3.45 | 0.51 | 0.330 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1296 | 95.23 | 5.49 | 2.04 | 3.46 | 0.51 | 0.330 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1297 | 95.29 | 5.49 | 2.04 | 3.46 | 0.51 | 0.330 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1298 | 95.38 | 5.50 | 2.04 | 3.46 | 0.51 | 0.330 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1299 | 95.43 | 5.50 | 2.04 | 3.46 | 0.51 | 0.330 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1300 | 95.52 | 5.51 | 2.04 | 3.47 | 0.51 | 0.330 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1301 | 95.57 | 5.51 | 2.05 | 3.47 | 0.51 | 0.330 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1302 | 95.67 | 5.52 | 2.05 | 3.47 | 0.51 | 0.330 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1303 | 95.77 | 5.53 | 2.05 | 3.47 | 0.51 | 0.330 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1304 | 95.86 | 5.53 | 2.05 | 3.48 | 0.51 | 0.330 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1305 | 95.95 | 5.54 | 2.06 | 3.48 | 0.51 | 0.330 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1306 | 96.03 | 5.54 | 2.06 | 3.48 | 0.51 | 0.330 | 1.36 | 0.243 | 0.79 | 1.00 | 2.000 | No |
| 1307 | 96.11 | 5.55 | 2.06 | 3.48 | 0.51 | 0.330 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | No |
| 1308 | 96.20 | 5.55 | 2.07 | 3.49 | 0.51 | 0.330 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | No |
| 1309 | 96.30 | 5.56 | 2.07 | 3.49 | 0.51 | 0.330 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | Yes |
| 1310 | 96.39 | 5.57 | 2.07 | 3.49 | 0.51 | 0.330 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | Yes |
| 1311 | 96.50 | 5.57 | 2.07 | 3.50 | 0.51 | 0.330 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | Yes |
| 1312 | 96.59 | 5.58 | 2.08 | 3.50 | 0.50 | 0.330 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | Yes |
| 1313 | 96.69 | 5.58 | 2.08 | 3.50 | 0.50 | 0.329 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | Yes |
| 1314 | 96.78 | 5.59 | 2.08 | 3.51 | 0.50 | 0.329 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | Yes |
| 1315 | 96.87 | 5.60 | 2.09 | 3.51 | 0.50 | 0.329 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | Yes |
| 1316 | 96.98 | 5.60 | 2.09 | 3.51 | 0.50 | 0.329 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | No |
| 1317 | 97.02 | 5.61 | 2.09 | 3.51 | 0.50 | 0.329 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | No |
| 1318 | 97.06 | 5.61 | 2.09 | 3.52 | 0.50 | 0.329 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | No |
| 1319 | 97.12 | 5.61 | 2.09 | 3.52 | 0.50 | 0.329 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | No |
| 1320 | 97.16 | 5.62 | 2.10 | 3.52 | 0.50 | 0.329 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | No |
| 1321 | 97.21 | 5.62 | 2.10 | 3.52 | 0.50 | 0.329 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | No |
| 1322 | 97.27 | 5.62 | 2.10 | 3.52 | 0.50 | 0.329 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | No |
| 1323 | 97.33 | 5.63 | 2.10 | 3.53 | 0.50 | 0.329 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | No |
| 1324 | 97.40 | 5.63 | 2.10 | 3.53 | 0.50 | 0.329 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | No |
| 1325 | 97.45 | 5.63 | 2.10 | 3.53 | 0.50 | 0.329 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | Yes |
| 1326 | 97.50 | 5.64 | 2.11 | 3.53 | 0.50 | 0.329 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | Yes |
| 1327 | 97.58 | 5.64 | 2.11 | 3.53 | 0.50 | 0.329 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | Yes |
| 1328 | 97.65 | 5.65 | 2.11 | 3.54 | 0.50 | 0.329 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | Yes |
| 1329 | 97.69 | 5.65 | 2.11 | 3.54 | 0.50 | 0.329 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | Yes |
| 1330 | 97.74 | 5.65 | 2.11 | 3.54 | 0.50 | 0.329 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | Yes |
| 1331 | 97.81 | 5.66 | 2.12 | 3.54 | 0.50 | 0.329 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | Yes |
| 1332 | 97.88 | 5.66 | 2.12 | 3.54 | 0.50 | 0.329 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | Yes |
| 1333 | 97.93 | 5.67 | 2.12 | 3.55 | 0.50 | 0.329 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | Yes |
| 1334 | 98.03 | 5.67 | 2.12 | 3.55 | 0.50 | 0.329 | 1.36 | 0.242 | 0.79 | 1.00 | 2.000 | Yes |
| 1335 | 98.15 | 5.68 | 2.13 | 3.55 | 0.50 | 0.329 | 1.36 | 0.242 | 0.78 | 1.00 | 2.000 | Yes |
| 1336 | 98.21 | 5.68 | 2.13 | 3.56 | 0.50 | 0.329 | 1.36 | 0.242 | 0.78 | 1.00 | 2.000 | Yes |
| 1337 | 98.32 | 5.69 | 2.13 | 3.56 | 0.50 | 0.328 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1338 | 98.42 | 5.70 | 2.13 | 3.56 | 0.50 | 0.328 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1339 | 98.47 | 5.70 | 2.14 | 3.56 | 0.50 | 0.328 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1340 | 98.57 | 5.71 | 2.14 | 3.57 | 0.50 | 0.328 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | No |
| 1341 | 98.70 | 5.71 | 2.14 | 3.57 | 0.50 | 0.328 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | No |
| 1342 | 98.78 | 5.72 | 2.15 | 3.57 | 0.50 | 0.328 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | No |
| 1343 | 98.85 | 5.72 | 2.15 | 3.58 | 0.50 | 0.328 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | No |
| 1344 | 98.86 | 5.72 | 2.15 | 3.58 | 0.50 | 0.328 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | No |

**:: Cyclic Stress Ratio fully adjusted (CSR*) calculation data :: (continued)**

| Point ID | Depth (ft) | $\sigma_v$ (tsf) | $u_0$ (tsf) | $\sigma_v'$ (tsf) | $r_d$ | CSR | MSF | $CSR_{eq}$ | $K_\sigma$ | User FS | $CSR^*$ | Belongs to transition |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1345 | 98.92 | 5.73 | 2.15 | 3.58 | 0.50 | 0.328 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | No |
| 1346 | 98.98 | 5.73 | 2.15 | 3.58 | 0.50 | 0.328 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1347 | 99.03 | 5.74 | 2.15 | 3.58 | 0.50 | 0.328 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1348 | 99.11 | 5.74 | 2.16 | 3.58 | 0.50 | 0.328 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1349 | 99.18 | 5.74 | 2.16 | 3.59 | 0.50 | 0.328 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1350 | 99.23 | 5.75 | 2.16 | 3.59 | 0.50 | 0.328 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1351 | 99.32 | 5.75 | 2.16 | 3.59 | 0.50 | 0.328 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1352 | 99.37 | 5.76 | 2.16 | 3.59 | 0.50 | 0.328 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1353 | 99.45 | 5.76 | 2.17 | 3.60 | 0.50 | 0.328 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1354 | 99.56 | 5.77 | 2.17 | 3.60 | 0.50 | 0.328 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1355 | 99.64 | 5.77 | 2.17 | 3.60 | 0.50 | 0.328 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1356 | 99.71 | 5.78 | 2.17 | 3.60 | 0.50 | 0.328 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1357 | 99.75 | 5.78 | 2.18 | 3.61 | 0.50 | 0.328 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1358 | 99.90 | 5.79 | 2.18 | 3.61 | 0.50 | 0.328 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1359 | 99.95 | 5.80 | 2.18 | 3.61 | 0.50 | 0.328 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1360 | 100.04 | 5.80 | 2.19 | 3.62 | 0.50 | 0.327 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1361 | 100.14 | 5.81 | 2.19 | 3.62 | 0.50 | 0.327 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1362 | 100.14 | 5.81 | 2.19 | 3.62 | 0.50 | 0.327 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1363 | 100.15 | 5.81 | 2.19 | 3.62 | 0.50 | 0.327 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1364 | 100.19 | 5.81 | 2.19 | 3.62 | 0.50 | 0.327 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1365 | 100.21 | 5.81 | 2.19 | 3.62 | 0.50 | 0.327 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1366 | 100.24 | 5.81 | 2.19 | 3.62 | 0.50 | 0.327 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1367 | 100.28 | 5.82 | 2.19 | 3.62 | 0.50 | 0.327 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | Yes |
| 1368 | 100.31 | 5.82 | 2.19 | 3.63 | 0.50 | 0.327 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | No |
| 1369 | 100.33 | 5.82 | 2.19 | 3.63 | 0.50 | 0.327 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | No |
| 1370 | 100.38 | 5.82 | 2.20 | 3.63 | 0.50 | 0.327 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | No |
| 1371 | 100.39 | 5.82 | 2.20 | 3.63 | 0.50 | 0.327 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | No |
| 1372 | 100.43 | 5.82 | 2.20 | 3.63 | 0.50 | 0.327 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | No |
| 1373 | 100.48 | 5.83 | 2.20 | 3.63 | 0.50 | 0.327 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | No |
| 1374 | 100.53 | 5.83 | 2.20 | 3.63 | 0.50 | 0.327 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | No |
| 1375 | 100.57 | 5.83 | 2.20 | 3.63 | 0.50 | 0.327 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | No |
| 1376 | 100.60 | 5.83 | 2.20 | 3.63 | 0.50 | 0.327 | 1.36 | 0.241 | 0.78 | 1.00 | 2.000 | No |

**Abbreviations**

Depth: Depth from free surface, at which CPT was performed (ft)
$\sigma_v$: Total overburden pressure at test point (tsf)
$u_0$: Water pressure at test point (tsf)
$\sigma_v'$: Effective overburden pressure based on GWT during earthquake (tsf)
$r_d$: Nonlinear shear mass factor
CSR: Cyclic Stress Ratio
MSF: Magnitude Scaling Factor
$CSR_{eq}$: CSR adjusted for M=7.5
$K_\sigma$: Effective overburden stress factor
$CSR^*$: CSR fully adjusted

**:: Cyclic Resistance Ratio (CRR) calculation data ::**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.04 | 0.10 | 4.06 | 37.76 | 1.00 | 0.16 | 54.25 | 8.56 | 4.000 | No | Yes | 2.00 |
| 2 | 0.10 | 0.13 | 4.06 | 31.79 | 1.00 | 0.21 | 54.25 | 11.25 | 4.000 | No | Yes | 2.00 |
| 3 | 0.11 | 0.23 | 4.06 | 19.95 | 1.00 | 0.37 | 54.25 | 19.92 | 4.000 | No | Yes | 2.00 |
| 4 | 0.16 | 0.54 | 4.06 | 8.78 | 1.00 | 0.85 | 54.25 | 46.18 | 4.000 | No | Yes | 2.00 |
| 5 | 0.19 | 1.28 | 3.64 | 3.82 | 1.00 | 2.04 | 26.86 | 54.86 | 4.000 | No | Yes | 2.00 |
| 6 | 0.24 | 2.83 | 3.19 | 1.88 | 1.00 | 4.54 | 12.41 | 56.29 | 4.000 | No | Yes | 2.00 |
| 7 | 0.31 | 4.93 | 2.89 | 1.26 | 0.88 | 7.89 | 7.08 | 55.92 | 4.000 | No | Yes | 2.00 |
| 8 | 0.38 | 6.68 | 2.74 | 1.06 | 0.83 | 10.70 | 5.13 | 54.91 | 4.000 | No | Yes | 2.00 |
| 9 | 0.43 | 7.56 | 2.68 | 1.02 | 0.81 | 12.11 | 4.55 | 55.04 | 4.000 | No | Yes | 2.00 |
| 10 | 0.49 | 7.32 | 2.72 | 1.13 | 0.82 | 11.72 | 4.88 | 57.26 | 4.000 | No | Yes | 2.00 |
| 11 | 0.58 | 6.81 | 2.78 | 1.31 | 0.84 | 10.90 | 5.56 | 60.65 | 4.000 | No | Yes | 2.00 |
| 12 | 0.63 | 6.24 | 2.85 | 1.60 | 0.86 | 9.98 | 6.53 | 65.19 | 4.000 | No | Yes | 2.00 |
| 13 | 0.67 | 6.05 | 2.90 | 1.88 | 0.88 | 9.68 | 7.19 | 69.56 | 4.000 | No | Yes | 2.00 |
| 14 | 0.72 | 6.02 | 2.92 | 2.08 | 0.89 | 9.62 | 7.57 | 72.80 | 4.000 | Yes | Yes | 2.00 |
| 15 | 0.72 | 6.70 | 2.91 | 2.29 | 0.88 | 10.70 | 7.32 | 78.32 | 4.000 | Yes | Yes | 2.00 |
| 16 | 0.84 | 9.28 | 2.77 | 2.08 | 0.84 | 14.84 | 5.43 | 80.63 | 4.000 | Yes | Yes | 2.00 |
| 17 | 0.96 | 15.82 | 2.50 | 1.53 | 0.76 | 25.35 | 2.97 | 75.23 | 4.000 | Yes | No | 2.00 |
| 18 | 1.06 | 22.64 | 2.32 | 1.27 | 0.71 | 36.29 | 2.02 | 73.35 | 4.000 | Yes | No | 2.00 |
| 19 | 1.24 | 27.97 | 2.21 | 1.11 | 0.67 | 44.84 | 1.65 | 74.08 | 4.000 | Yes | No | 2.00 |
| 20 | 1.30 | 31.48 | 2.14 | 0.98 | 0.65 | 50.47 | 1.49 | 75.12 | 4.000 | Yes | No | 2.00 |
| 21 | 1.48 | 37.28 | 2.04 | 0.82 | 0.62 | 59.78 | 1.34 | 80.22 | 4.000 | Yes | No | 2.00 |
| 22 | 1.59 | 42.14 | 1.98 | 0.77 | 0.60 | 67.57 | 1.29 | 87.16 | 4.000 | Yes | No | 2.00 |
| 23 | 1.69 | 47.40 | 1.93 | 0.75 | 0.59 | 76.02 | 1.26 | 95.52 | 4.000 | Yes | No | 2.00 |
| 24 | 1.69 | 49.80 | 1.91 | 0.76 | 0.58 | 79.87 | 1.25 | 99.55 | 4.000 | Yes | No | 2.00 |
| 25 | 1.74 | 53.24 | 1.88 | 0.73 | 0.57 | 85.40 | 1.22 | 104.46 | 4.000 | Yes | No | 2.00 |
| 26 | 1.79 | 53.78 | 1.88 | 0.73 | 0.57 | 86.26 | 1.22 | 105.40 | 4.000 | No | No | 2.00 |
| 27 | 1.84 | 52.90 | 1.89 | 0.73 | 0.57 | 84.84 | 1.23 | 104.08 | 4.000 | No | No | 2.00 |
| 28 | 1.88 | 51.25 | 1.89 | 0.73 | 0.58 | 82.18 | 1.23 | 101.34 | 4.000 | No | No | 2.00 |
| 29 | 1.93 | 49.46 | 1.90 | 0.71 | 0.58 | 79.31 | 1.24 | 98.11 | 4.000 | No | No | 2.00 |
| 30 | 1.99 | 48.69 | 1.90 | 0.68 | 0.58 | 78.06 | 1.23 | 96.29 | 4.000 | No | No | 2.00 |
| 31 | 2.03 | 48.08 | 1.89 | 0.65 | 0.58 | 77.07 | 1.23 | 94.90 | 4.000 | No | No | 2.00 |
| 32 | 2.08 | 47.67 | 1.89 | 0.64 | 0.57 | 76.42 | 1.23 | 93.98 | 4.000 | No | No | 2.00 |
| 33 | 2.13 | 46.86 | 1.90 | 0.64 | 0.58 | 75.11 | 1.23 | 92.67 | 4.000 | No | No | 2.00 |
| 34 | 2.22 | 45.85 | 1.90 | 0.64 | 0.58 | 73.48 | 1.24 | 91.09 | 4.000 | No | No | 2.00 |
| 35 | 2.27 | 44.97 | 1.91 | 0.64 | 0.58 | 72.07 | 1.24 | 89.70 | 4.000 | No | No | 2.00 |
| 36 | 2.33 | 44.77 | 1.91 | 0.63 | 0.58 | 71.74 | 1.24 | 89.16 | 4.000 | No | No | 2.00 |
| 37 | 2.42 | 45.44 | 1.90 | 0.61 | 0.58 | 72.81 | 1.24 | 89.96 | 4.000 | No | No | 2.00 |
| 38 | 2.48 | 46.73 | 1.88 | 0.60 | 0.57 | 74.86 | 1.22 | 91.66 | 4.000 | No | No | 2.00 |
| 39 | 2.56 | 48.41 | 1.86 | 0.59 | 0.57 | 77.57 | 1.21 | 94.03 | 4.000 | No | No | 2.00 |
| 40 | 2.65 | 49.43 | 1.86 | 0.59 | 0.56 | 79.19 | 1.21 | 95.47 | 4.000 | No | No | 2.00 |
| 41 | 2.72 | 48.72 | 1.87 | 0.60 | 0.57 | 78.04 | 1.21 | 94.74 | 4.000 | No | No | 2.00 |
| 42 | 2.80 | 46.02 | 1.90 | 0.62 | 0.58 | 73.70 | 1.23 | 90.99 | 4.000 | No | No | 2.00 |
| 43 | 2.89 | 42.44 | 1.94 | 0.65 | 0.59 | 67.94 | 1.26 | 85.67 | 4.000 | No | No | 2.00 |
| 44 | 2.94 | 39.03 | 1.98 | 0.69 | 0.60 | 62.46 | 1.29 | 80.64 | 4.000 | No | No | 2.00 |
| 45 | 3.04 | 35.90 | 2.02 | 0.71 | 0.61 | 57.42 | 1.32 | 76.04 | 4.000 | No | No | 2.00 |
| 46 | 3.14 | 32.32 | 2.07 | 0.73 | 0.63 | 51.66 | 1.37 | 70.91 | 4.000 | No | No | 2.00 |
| 47 | 3.23 | 29.01 | 2.10 | 0.73 | 0.64 | 46.34 | 1.42 | 65.97 | 4.000 | No | No | 2.00 |
| 48 | 3.31 | 25.74 | 2.15 | 0.73 | 0.65 | 41.07 | 1.50 | 61.64 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 49 | 3.37 | 23.04 | 2.19 | 0.72 | 0.66 | 36.73 | 1.59 | 58.33 | 4.000 | No | No | 2.00 |
| 50 | 3.48 | 20.38 | 2.23 | 0.72 | 0.68 | 32.44 | 1.71 | 55.35 | 4.000 | No | No | 2.00 |
| 51 | 3.57 | 18.79 | 2.25 | 0.67 | 0.68 | 29.89 | 1.76 | 52.71 | 4.000 | No | No | 2.00 |
| 52 | 3.65 | 18.02 | 2.26 | 0.63 | 0.69 | 28.64 | 1.78 | 50.93 | 4.000 | No | No | 2.00 |
| 53 | 3.71 | 18.02 | 2.26 | 0.63 | 0.68 | 28.64 | 1.77 | 50.70 | 4.000 | No | No | 2.00 |
| 54 | 3.82 | 18.63 | 2.26 | 0.67 | 0.68 | 29.60 | 1.77 | 52.47 | 4.000 | No | No | 2.00 |
| 55 | 3.91 | 20.18 | 2.23 | 0.70 | 0.68 | 32.09 | 1.71 | 54.73 | 4.000 | No | No | 2.00 |
| 56 | 4.00 | 22.81 | 2.20 | 0.73 | 0.67 | 36.30 | 1.60 | 58.22 | 4.000 | No | No | 2.00 |
| 57 | 4.10 | 26.38 | 2.09 | 0.58 | 0.64 | 42.04 | 1.41 | 59.10 | 4.000 | No | No | 2.00 |
| 58 | 4.19 | 31.21 | 1.98 | 0.46 | 0.60 | 49.79 | 1.00 | 49.79 | 4.000 | No | No | 2.00 |
| 59 | 4.26 | 37.92 | 1.86 | 0.36 | 0.57 | 60.57 | 1.00 | 60.57 | 4.000 | No | No | 2.00 |
| 60 | 4.35 | 45.62 | 1.79 | 0.37 | 0.54 | 72.92 | 1.00 | 72.92 | 4.000 | No | No | 2.00 |
| 61 | 4.44 | 49.80 | 1.77 | 0.39 | 0.54 | 79.63 | 1.00 | 79.63 | 4.000 | No | No | 2.00 |
| 62 | 4.52 | 51.39 | 1.76 | 0.41 | 0.54 | 82.17 | 1.00 | 82.17 | 4.000 | No | No | 2.00 |
| 63 | 4.53 | 52.26 | 1.76 | 0.41 | 0.54 | 83.58 | 1.00 | 83.58 | 4.000 | No | No | 2.00 |
| 64 | 4.58 | 55.03 | 1.73 | 0.39 | 0.53 | 88.02 | 1.00 | 88.02 | 4.000 | No | No | 2.00 |
| 65 | 4.63 | 57.76 | 1.71 | 0.39 | 0.52 | 92.41 | 1.00 | 92.41 | 4.000 | No | No | 2.00 |
| 66 | 4.68 | 58.84 | 1.70 | 0.39 | 0.52 | 94.14 | 1.00 | 94.14 | 4.000 | No | No | 2.00 |
| 67 | 4.72 | 59.28 | 1.71 | 0.41 | 0.52 | 94.84 | 1.00 | 94.84 | 4.000 | No | No | 2.00 |
| 68 | 4.77 | 59.08 | 1.72 | 0.42 | 0.52 | 94.51 | 1.00 | 94.51 | 4.000 | No | No | 2.00 |
| 69 | 4.82 | 58.07 | 1.73 | 0.44 | 0.53 | 92.88 | 1.00 | 92.88 | 4.000 | No | No | 2.00 |
| 70 | 4.88 | 56.21 | 1.76 | 0.47 | 0.54 | 89.89 | 1.00 | 89.89 | 4.000 | No | No | 2.00 |
| 71 | 4.96 | 53.61 | 1.79 | 0.50 | 0.55 | 85.71 | 1.14 | 97.96 | 4.000 | No | No | 2.00 |
| 72 | 5.01 | 50.54 | 1.83 | 0.54 | 0.56 | 80.78 | 1.18 | 95.67 | 4.000 | No | No | 2.00 |
| 73 | 5.08 | 47.44 | 1.87 | 0.59 | 0.57 | 75.78 | 1.22 | 92.32 | 4.000 | No | No | 2.00 |
| 74 | 5.16 | 44.81 | 1.91 | 0.63 | 0.58 | 71.55 | 1.24 | 88.93 | 4.000 | No | No | 2.00 |
| 75 | 5.21 | 43.27 | 1.93 | 0.65 | 0.59 | 69.07 | 1.26 | 86.85 | 4.000 | No | No | 2.00 |
| 76 | 5.30 | 42.68 | 1.94 | 0.66 | 0.59 | 68.12 | 1.26 | 86.01 | 4.000 | No | No | 2.00 |
| 77 | 5.37 | 42.65 | 1.94 | 0.66 | 0.59 | 68.06 | 1.26 | 85.96 | 4.000 | No | No | 2.00 |
| 78 | 5.45 | 42.70 | 1.94 | 0.66 | 0.59 | 68.13 | 1.26 | 86.01 | 4.000 | No | No | 2.00 |
| 79 | 5.52 | 42.44 | 1.94 | 0.66 | 0.59 | 67.72 | 1.26 | 85.64 | 4.000 | No | No | 2.00 |
| 80 | 5.59 | 41.70 | 1.95 | 0.67 | 0.59 | 66.52 | 1.27 | 84.54 | 4.000 | No | No | 2.00 |
| 81 | 5.65 | 40.15 | 1.97 | 0.69 | 0.60 | 64.02 | 1.28 | 82.25 | 4.000 | No | No | 2.00 |
| 82 | 5.74 | 38.46 | 1.99 | 0.71 | 0.61 | 61.30 | 1.30 | 79.83 | 4.000 | No | No | 2.00 |
| 83 | 5.83 | 37.08 | 2.02 | 0.73 | 0.61 | 59.07 | 1.32 | 77.99 | 4.000 | No | No | 2.00 |
| 84 | 5.89 | 36.30 | 2.03 | 0.75 | 0.62 | 57.82 | 1.33 | 77.16 | 4.000 | No | No | 2.00 |
| 85 | 5.97 | 35.66 | 2.04 | 0.77 | 0.62 | 56.79 | 1.35 | 76.43 | 4.000 | No | No | 2.00 |
| 86 | 6.07 | 34.52 | 2.06 | 0.79 | 0.63 | 54.94 | 1.37 | 75.11 | 4.000 | No | No | 2.00 |
| 87 | 6.12 | 32.56 | 2.10 | 0.84 | 0.64 | 51.79 | 1.41 | 73.14 | 4.000 | No | No | 2.00 |
| 88 | 6.22 | 29.76 | 2.15 | 0.92 | 0.65 | 47.28 | 1.51 | 71.19 | 4.000 | No | No | 2.00 |
| 89 | 6.28 | 26.56 | 2.22 | 1.04 | 0.67 | 42.13 | 1.67 | 70.33 | 4.000 | No | No | 2.00 |
| 90 | 6.36 | 23.45 | 2.29 | 1.15 | 0.70 | 37.14 | 1.90 | 70.41 | 4.000 | No | No | 2.00 |
| 91 | 6.46 | 21.29 | 2.34 | 1.22 | 0.71 | 33.66 | 2.09 | 70.43 | 4.000 | No | No | 2.00 |
| 92 | 6.52 | 20.72 | 2.33 | 1.14 | 0.71 | 32.73 | 2.06 | 67.56 | 4.000 | No | No | 2.00 |
| 93 | 6.60 | 22.07 | 2.26 | 0.92 | 0.69 | 34.89 | 1.79 | 62.55 | 4.000 | No | No | 2.00 |
| 94 | 6.70 | 23.55 | 2.18 | 0.72 | 0.66 | 37.27 | 1.57 | 58.59 | 4.000 | No | No | 2.00 |
| 95 | 6.76 | 23.01 | 2.17 | 0.66 | 0.66 | 36.39 | 1.55 | 56.58 | 4.000 | Yes | No | 2.00 |
| 96 | 6.84 | 19.64 | 2.27 | 0.77 | 0.69 | 30.96 | 1.81 | 55.94 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 97 | 6.94 | 14.91 | 2.44 | 1.05 | 0.74 | 23.37 | 2.60 | 60.83 | 4.000 | Yes | No | 2.00 |
| 98 | 7.03 | 10.86 | 2.63 | 1.42 | 0.80 | 16.85 | 4.02 | 67.75 | 4.000 | Yes | Yes | 2.00 |
| 99 | 7.13 | 8.23 | 2.79 | 1.78 | 0.84 | 12.62 | 5.71 | 72.04 | 4.000 | Yes | Yes | 2.00 |
| 100 | 7.19 | 6.62 | 2.88 | 1.83 | 0.87 | 10.02 | 6.93 | 69.39 | 4.000 | Yes | Yes | 2.00 |
| 101 | 7.32 | 5.77 | 2.88 | 1.39 | 0.87 | 8.65 | 6.87 | 59.40 | 4.000 | No | Yes | 2.00 |
| 102 | 7.42 | 5.17 | 2.80 | 0.72 | 0.85 | 7.67 | 5.87 | 44.99 | 4.000 | No | Yes | 2.00 |
| 103 | 7.49 | 4.93 | 2.63 | 0.13 | 0.80 | 7.28 | 4.02 | 29.29 | 4.000 | No | Yes | 2.00 |
| 104 | 7.57 | 4.73 | N/A | -0.03 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 105 | 7.66 | 4.56 | N/A | -0.01 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 106 | 7.76 | 4.44 | 2.68 | 0.13 | 0.81 | 6.47 | 4.48 | 29.00 | 4.000 | No | Yes | 2.00 |
| 107 | 7.77 | 4.39 | 2.72 | 0.22 | 0.82 | 6.39 | 4.95 | 31.63 | 4.000 | No | Yes | 2.00 |
| 108 | 7.78 | 4.42 | 2.73 | 0.25 | 0.83 | 6.44 | 5.05 | 32.53 | 4.000 | No | Yes | 2.00 |
| 109 | 7.82 | 4.44 | 2.76 | 0.33 | 0.84 | 6.47 | 5.36 | 34.69 | 4.000 | No | Yes | 2.00 |
| 110 | 7.87 | 4.45 | 2.80 | 0.46 | 0.85 | 6.49 | 5.86 | 38.07 | 4.000 | No | Yes | 2.00 |
| 111 | 7.92 | 4.45 | 2.85 | 0.63 | 0.86 | 6.49 | 6.45 | 41.83 | 4.000 | No | Yes | 2.00 |
| 112 | 7.97 | 4.49 | 2.88 | 0.80 | 0.87 | 6.54 | 6.96 | 45.53 | 4.000 | No | Yes | 2.00 |
| 113 | 8.01 | 4.59 | 2.91 | 1.01 | 0.88 | 6.70 | 7.41 | 49.66 | 4.000 | No | Yes | 2.00 |
| 114 | 8.06 | 4.76 | 2.92 | 1.17 | 0.89 | 6.97 | 7.58 | 52.81 | 4.000 | No | Yes | 2.00 |
| 115 | 8.11 | 4.93 | 2.93 | 1.29 | 0.89 | 7.24 | 7.65 | 55.42 | 4.000 | No | Yes | 2.00 |
| 116 | 8.20 | 5.06 | 2.93 | 1.38 | 0.89 | 7.45 | 7.68 | 57.24 | 4.000 | No | Yes | 2.00 |
| 117 | 8.26 | 5.16 | 2.94 | 1.51 | 0.89 | 7.60 | 7.84 | 59.63 | 4.000 | No | Yes | 2.00 |
| 118 | 8.35 | 5.23 | 2.95 | 1.61 | 1.00 | 7.70 | 7.98 | 61.50 | 4.000 | No | Yes | 2.00 |
| 119 | 8.40 | 5.30 | 2.95 | 1.67 | 1.00 | 7.81 | 8.02 | 62.65 | 4.000 | No | Yes | 2.00 |
| 120 | 8.49 | 5.37 | 2.95 | 1.68 | 0.89 | 7.91 | 7.96 | 62.99 | 4.000 | No | Yes | 2.00 |
| 121 | 8.54 | 5.51 | 2.94 | 1.69 | 0.89 | 8.13 | 7.81 | 63.54 | 4.000 | No | Yes | 2.00 |
| 122 | 8.64 | 5.71 | 2.93 | 1.68 | 0.89 | 8.45 | 7.58 | 64.06 | 4.000 | No | Yes | 2.00 |
| 123 | 8.69 | 5.91 | 2.91 | 1.68 | 0.88 | 8.77 | 7.37 | 64.63 | 4.000 | No | Yes | 2.00 |
| 124 | 8.79 | 6.18 | 2.92 | 1.87 | 0.88 | 9.19 | 7.46 | 68.57 | 4.000 | No | Yes | 2.00 |
| 125 | 8.84 | 6.48 | 2.93 | 2.12 | 0.89 | 9.68 | 7.59 | 73.49 | 4.000 | No | Yes | 2.00 |
| 126 | 8.93 | 6.89 | 2.92 | 2.28 | 0.88 | 10.32 | 7.50 | 77.37 | 4.000 | No | Yes | 2.00 |
| 127 | 9.03 | 7.13 | 2.92 | 2.39 | 0.88 | 10.69 | 7.46 | 79.83 | 4.000 | No | Yes | 2.00 |
| 128 | 9.08 | 7.21 | 2.92 | 2.47 | 0.88 | 10.83 | 7.52 | 81.47 | 4.000 | No | Yes | 2.00 |
| 129 | 9.11 | 7.16 | 2.94 | 2.63 | 0.89 | 10.75 | 7.78 | 83.66 | 4.000 | No | Yes | 2.00 |
| 130 | 9.12 | 7.13 | 2.95 | 2.68 | 0.89 | 10.69 | 7.89 | 84.32 | 4.000 | No | Yes | 2.00 |
| 131 | 9.17 | 7.07 | 2.95 | 2.75 | 1.00 | 10.60 | 8.03 | 85.13 | 4.000 | No | Yes | 2.00 |
| 132 | 9.22 | 7.12 | 2.96 | 2.81 | 1.00 | 10.67 | 8.09 | 86.32 | 4.000 | No | Yes | 2.00 |
| 133 | 9.31 | 6.92 | 2.99 | 3.02 | 1.00 | 10.34 | 8.56 | 88.56 | 4.000 | No | Yes | 2.00 |
| 134 | 9.36 | 7.16 | 2.98 | 3.04 | 1.00 | 10.72 | 8.37 | 89.76 | 4.000 | No | Yes | 2.00 |
| 135 | 9.40 | 7.46 | 2.95 | 2.98 | 1.00 | 11.20 | 8.04 | 90.10 | 4.000 | No | Yes | 2.00 |
| 136 | 9.46 | 8.14 | 2.90 | 2.76 | 0.88 | 12.28 | 7.25 | 89.07 | 4.000 | No | Yes | 2.00 |
| 137 | 9.51 | 8.47 | 2.88 | 2.68 | 0.87 | 12.82 | 6.92 | 88.75 | 4.000 | No | Yes | 2.00 |
| 138 | 9.55 | 8.78 | 2.86 | 2.65 | 0.87 | 13.30 | 6.70 | 89.10 | 4.000 | No | Yes | 2.00 |
| 139 | 9.61 | 8.98 | 2.86 | 2.71 | 0.87 | 13.63 | 6.65 | 90.65 | 4.000 | No | Yes | 2.00 |
| 140 | 9.69 | 9.12 | 2.87 | 2.83 | 0.87 | 13.84 | 6.73 | 93.09 | 4.000 | No | Yes | 2.00 |
| 141 | 9.74 | 9.18 | 2.88 | 2.97 | 0.87 | 13.94 | 6.87 | 95.71 | 4.000 | No | Yes | 2.00 |
| 142 | 9.81 | 9.39 | 2.88 | 3.05 | 0.87 | 14.26 | 6.85 | 97.70 | 4.000 | No | Yes | 2.00 |
| 143 | 9.89 | 9.76 | 2.86 | 3.02 | 0.87 | 14.85 | 6.62 | 98.33 | 4.000 | No | Yes | 2.00 |
| 144 | 9.94 | 10.06 | 2.84 | 2.98 | 0.86 | 15.33 | 6.42 | 98.43 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 145 | 10.03 | 10.23 | 2.83 | 2.93 | 0.86 | 15.59 | 6.28 | 97.94 | 4.000 | No | Yes | 2.00 |
| 146 | 10.08 | 10.23 | 2.80 | 2.62 | 0.85 | 15.59 | 5.91 | 92.18 | 4.000 | No | Yes | 2.00 |
| 147 | 10.18 | 10.23 | 2.76 | 2.21 | 0.84 | 15.58 | 5.40 | 84.12 | 4.000 | No | Yes | 2.00 |
| 148 | 10.23 | 10.23 | 2.73 | 1.94 | 0.83 | 15.58 | 5.05 | 78.62 | 4.000 | No | Yes | 2.00 |
| 149 | 10.33 | 10.23 | 2.74 | 2.03 | 0.83 | 15.57 | 5.17 | 80.55 | 4.000 | No | Yes | 2.00 |
| 150 | 10.40 | 10.23 | 2.77 | 2.31 | 0.84 | 15.56 | 5.54 | 86.20 | 4.000 | No | Yes | 2.00 |
| 151 | 10.47 | 10.08 | 2.80 | 2.55 | 0.85 | 15.32 | 5.91 | 90.44 | 4.000 | No | Yes | 2.00 |
| 152 | 10.51 | 10.06 | 2.83 | 2.76 | 0.86 | 15.28 | 6.18 | 94.42 | 4.000 | No | Yes | 2.00 |
| 153 | 10.56 | 10.03 | 2.84 | 2.94 | 0.86 | 15.23 | 6.41 | 97.63 | 4.000 | No | Yes | 2.00 |
| 154 | 10.61 | 10.21 | 2.85 | 3.10 | 0.86 | 15.52 | 6.51 | 100.97 | 4.000 | No | Yes | 2.00 |
| 155 | 10.67 | 10.16 | 2.88 | 3.41 | 0.87 | 15.43 | 6.88 | 106.14 | 4.000 | No | Yes | 2.00 |
| 156 | 10.75 | 10.13 | 2.90 | 3.70 | 0.88 | 15.37 | 7.21 | 110.80 | 4.000 | No | Yes | 2.00 |
| 157 | 10.80 | 9.99 | 2.92 | 3.91 | 0.88 | 15.15 | 7.50 | 113.70 | 4.000 | No | Yes | 2.00 |
| 158 | 10.85 | 9.89 | 2.93 | 3.98 | 0.89 | 14.99 | 7.63 | 114.35 | 4.000 | No | Yes | 2.00 |
| 159 | 10.90 | 9.72 | 2.94 | 4.07 | 0.89 | 14.71 | 7.82 | 115.05 | 4.000 | No | Yes | 2.00 |
| 160 | 11.00 | 9.45 | 2.96 | 4.21 | 1.00 | 14.27 | 8.13 | 116.05 | 4.000 | No | Yes | 2.00 |
| 161 | 11.05 | 9.05 | 2.99 | 4.36 | 1.00 | 13.61 | 8.55 | 116.32 | 4.000 | No | Yes | 2.00 |
| 162 | 11.14 | 8.61 | 3.01 | 4.54 | 1.00 | 12.90 | 9.04 | 116.64 | 4.000 | No | Yes | 2.00 |
| 163 | 11.21 | 8.27 | 3.04 | 4.77 | 1.00 | 12.36 | 9.53 | 117.80 | 4.000 | No | Yes | 2.00 |
| 164 | 11.29 | 8.24 | 3.05 | 4.86 | 1.00 | 12.30 | 9.66 | 118.79 | 4.000 | No | Yes | 2.00 |
| 165 | 11.38 | 8.41 | 3.04 | 4.86 | 1.00 | 12.56 | 9.53 | 119.67 | 4.000 | No | Yes | 2.00 |
| 166 | 11.46 | 8.68 | 3.02 | 4.71 | 1.00 | 12.98 | 9.18 | 119.19 | 4.000 | No | Yes | 2.00 |
| 167 | 11.52 | 8.88 | 3.01 | 4.64 | 1.00 | 13.30 | 8.96 | 119.26 | 4.000 | No | Yes | 2.00 |
| 168 | 11.60 | 8.98 | 3.00 | 4.60 | 1.00 | 13.46 | 8.85 | 119.12 | 4.000 | No | Yes | 2.00 |
| 169 | 11.67 | 9.05 | 3.00 | 4.58 | 1.00 | 13.56 | 8.79 | 119.24 | 4.000 | No | Yes | 2.00 |
| 170 | 11.72 | 9.12 | 3.00 | 4.58 | 1.00 | 13.67 | 8.75 | 119.52 | 4.000 | No | Yes | 2.00 |
| 171 | 11.81 | 9.32 | 2.99 | 4.50 | 1.00 | 13.98 | 8.54 | 119.37 | 4.000 | No | Yes | 2.00 |
| 172 | 11.86 | 9.35 | 2.98 | 4.50 | 1.00 | 14.03 | 8.52 | 119.54 | 4.000 | No | Yes | 2.00 |
| 173 | 11.96 | 9.42 | 2.98 | 4.48 | 1.00 | 14.07 | 8.48 | 119.37 | 4.000 | No | Yes | 2.00 |
| 174 | 12.01 | 9.45 | 2.98 | 4.50 | 1.00 | 14.06 | 8.50 | 119.58 | 4.000 | No | Yes | 2.00 |
| 175 | 12.10 | 9.69 | 2.97 | 4.05 | 0.89 | 13.55 | 8.25 | 111.75 | 4.000 | No | Yes | 2.00 |
| 176 | 12.16 | 10.07 | 2.91 | 3.44 | 0.88 | 13.97 | 7.41 | 103.51 | 4.000 | No | Yes | 2.00 |
| 177 | 12.24 | 10.47 | 2.88 | 3.08 | 0.87 | 14.38 | 6.85 | 98.49 | 4.000 | No | Yes | 2.00 |
| 178 | 12.32 | 10.87 | 2.88 | 3.24 | 0.87 | 14.89 | 6.86 | 102.09 | 4.000 | No | Yes | 2.00 |
| 179 | 12.39 | 11.18 | 2.90 | 3.63 | 0.88 | 15.29 | 7.16 | 109.53 | 4.000 | No | Yes | 2.00 |
| 180 | 12.48 | 10.64 | 2.95 | 4.13 | 0.89 | 14.47 | 7.97 | 115.36 | 4.000 | No | Yes | 2.00 |
| 181 | 12.50 | 10.23 | 2.97 | 4.52 | 1.00 | 14.64 | 8.30 | 121.50 | 4.000 | No | Yes | 2.00 |
| 182 | 12.54 | 10.74 | 2.96 | 4.40 | 0.89 | 14.58 | 8.20 | 119.55 | 4.000 | No | Yes | 2.00 |
| 183 | 12.64 | 12.36 | 2.89 | 3.89 | 0.87 | 16.65 | 7.01 | 116.68 | 4.000 | No | Yes | 2.00 |
| 184 | 12.68 | 14.04 | 2.81 | 3.45 | 0.85 | 18.79 | 6.01 | 113.05 | 4.000 | No | Yes | 2.00 |
| 185 | 12.77 | 14.72 | 2.78 | 3.24 | 0.84 | 19.54 | 5.64 | 110.30 | 4.000 | No | Yes | 2.00 |
| 186 | 12.82 | 14.75 | 2.78 | 3.14 | 0.84 | 19.48 | 5.55 | 108.15 | 4.000 | No | Yes | 2.00 |
| 187 | 12.89 | 14.21 | 2.79 | 3.12 | 0.84 | 18.67 | 5.71 | 106.60 | 4.000 | No | Yes | 2.00 |
| 188 | 12.97 | 13.37 | 2.82 | 3.26 | 0.85 | 17.49 | 6.13 | 107.25 | 4.000 | No | Yes | 2.00 |
| 189 | 13.03 | 12.49 | 2.86 | 3.45 | 0.87 | 16.30 | 6.66 | 108.51 | 4.000 | No | Yes | 2.00 |
| 190 | 13.12 | 11.72 | 2.90 | 3.66 | 0.88 | 15.20 | 7.22 | 109.85 | 4.000 | No | Yes | 2.00 |
| 191 | 13.16 | 11.21 | 2.93 | 3.77 | 0.89 | 14.50 | 7.58 | 109.96 | 4.000 | No | Yes | 2.00 |
| 192 | 13.26 | 10.91 | 2.93 | 3.69 | 0.89 | 13.99 | 7.68 | 107.43 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 193 | 13.34 | 10.84 | 2.92 | 3.42 | 0.88 | 13.79 | 7.45 | 102.72 | 4.000 | No | Yes | 2.00 |
| 194 | 13.41 | 10.74 | 2.90 | 3.11 | 0.88 | 13.56 | 7.18 | 97.27 | 4.000 | No | Yes | 2.00 |
| 195 | 13.50 | 10.60 | 2.89 | 2.96 | 0.88 | 13.27 | 7.10 | 94.19 | 4.000 | No | Yes | 2.00 |
| 196 | 13.60 | 10.33 | 2.90 | 2.95 | 0.88 | 12.84 | 7.26 | 93.25 | 4.000 | No | Yes | 2.00 |
| 197 | 13.65 | 10.13 | 2.92 | 3.04 | 0.88 | 12.55 | 7.49 | 94.05 | 4.000 | No | Yes | 2.00 |
| 198 | 13.75 | 10.03 | 2.93 | 3.14 | 0.89 | 12.35 | 7.71 | 95.17 | 4.000 | No | Yes | 2.00 |
| 199 | 13.80 | 10.10 | 2.92 | 3.04 | 0.89 | 12.37 | 7.57 | 93.67 | 4.000 | No | Yes | 2.00 |
| 200 | 13.89 | 10.23 | 2.92 | 3.06 | 0.89 | 12.47 | 7.55 | 94.18 | 4.000 | No | Yes | 2.00 |
| 201 | 13.94 | 10.63 | 2.92 | 3.15 | 0.88 | 12.95 | 7.46 | 96.59 | 4.000 | No | Yes | 2.00 |
| 202 | 14.03 | 10.80 | 2.95 | 3.59 | 0.89 | 13.13 | 7.91 | 103.87 | 4.000 | No | Yes | 2.00 |
| 203 | 14.11 | 11.23 | 2.95 | 3.82 | 0.89 | 13.59 | 7.98 | 108.45 | 4.000 | No | Yes | 2.00 |
| 204 | 14.13 | 11.53 | 2.95 | 3.97 | 0.89 | 13.97 | 7.99 | 111.61 | 4.000 | No | Yes | 2.00 |
| 205 | 14.18 | 12.27 | 2.92 | 3.86 | 0.89 | 14.85 | 7.55 | 112.19 | 4.000 | No | Yes | 2.00 |
| 206 | 14.22 | 12.83 | 2.91 | 3.88 | 0.88 | 15.50 | 7.35 | 113.98 | 4.000 | No | Yes | 2.00 |
| 207 | 14.28 | 13.44 | 2.90 | 3.92 | 0.88 | 16.19 | 7.18 | 116.20 | 4.000 | No | Yes | 2.00 |
| 208 | 14.37 | 14.01 | 2.89 | 3.98 | 0.88 | 16.81 | 7.06 | 118.62 | 4.000 | No | Yes | 2.00 |
| 209 | 14.44 | 14.79 | 2.87 | 3.97 | 0.87 | 17.68 | 6.80 | 120.24 | 4.000 | No | Yes | 2.00 |
| 210 | 14.51 | 15.63 | 2.85 | 3.90 | 0.86 | 18.60 | 6.50 | 120.95 | 4.000 | No | Yes | 2.00 |
| 211 | 14.60 | 16.31 | 2.83 | 3.86 | 0.86 | 19.30 | 6.30 | 121.55 | 4.000 | No | Yes | 2.00 |
| 212 | 14.65 | 16.58 | 2.83 | 3.91 | 0.86 | 19.57 | 6.28 | 122.89 | 4.000 | No | Yes | 2.00 |
| 213 | 14.75 | 16.56 | 2.84 | 3.99 | 0.86 | 19.44 | 6.39 | 124.23 | 4.000 | No | Yes | 2.00 |
| 214 | 14.85 | 16.48 | 2.85 | 4.06 | 0.86 | 19.22 | 6.50 | 124.95 | 4.000 | No | Yes | 2.00 |
| 215 | 14.91 | 16.44 | 2.85 | 4.07 | 0.86 | 19.11 | 6.54 | 124.89 | 4.000 | No | Yes | 2.00 |
| 216 | 14.99 | 17.00 | 2.83 | 3.89 | 0.86 | 19.64 | 6.25 | 122.73 | 4.000 | Yes | Yes | 2.00 |
| 217 | 15.09 | 18.30 | 2.79 | 3.60 | 0.84 | 21.01 | 5.69 | 119.59 | 4.000 | Yes | Yes | 2.00 |
| 218 | 15.18 | 20.29 | 2.72 | 3.20 | 0.82 | 23.13 | 4.94 | 114.33 | 4.000 | Yes | Yes | 2.00 |
| 219 | 15.25 | 22.28 | 2.66 | 2.79 | 0.80 | 25.25 | 4.26 | 107.53 | 4.000 | Yes | Yes | 2.00 |
| 220 | 15.33 | 24.50 | 2.58 | 2.38 | 0.78 | 27.58 | 3.60 | 99.22 | 4.000 | Yes | No | 2.00 |
| 221 | 15.43 | 27.51 | 2.50 | 1.99 | 0.76 | 30.70 | 2.96 | 90.92 | 4.000 | Yes | No | 2.00 |
| 222 | 15.51 | 31.32 | 2.41 | 1.70 | 0.73 | 34.70 | 2.45 | 84.95 | 4.000 | Yes | No | 2.00 |
| 223 | 15.59 | 34.63 | 2.35 | 1.53 | 0.71 | 38.13 | 2.14 | 81.77 | 4.000 | Yes | No | 2.00 |
| 224 | 15.67 | 36.18 | 2.33 | 1.46 | 0.71 | 39.65 | 2.03 | 80.65 | 4.000 | Yes | No | 2.00 |
| 225 | 15.76 | 35.13 | 2.35 | 1.53 | 0.71 | 38.36 | 2.14 | 81.98 | 4.000 | Yes | No | 2.00 |
| 226 | 15.86 | 32.03 | 2.41 | 1.71 | 0.73 | 34.86 | 2.45 | 85.36 | 4.000 | Yes | No | 2.00 |
| 227 | 15.95 | 27.64 | 2.51 | 2.00 | 0.76 | 30.01 | 3.03 | 90.95 | 4.000 | Yes | No | 2.00 |
| 228 | 16.05 | 23.08 | 2.61 | 2.33 | 0.79 | 24.94 | 3.85 | 95.91 | 4.000 | Yes | Yes | 2.00 |
| 229 | 16.14 | 19.31 | 2.71 | 2.64 | 0.82 | 20.73 | 4.79 | 99.32 | 4.000 | Yes | Yes | 2.00 |
| 230 | 16.20 | 16.85 | 2.78 | 2.83 | 0.84 | 17.98 | 5.55 | 99.84 | 4.000 | Yes | Yes | 2.00 |
| 231 | 16.28 | 15.33 | 2.82 | 2.95 | 0.85 | 16.24 | 6.13 | 99.52 | 4.000 | Yes | Yes | 2.00 |
| 232 | 16.34 | 14.21 | 2.85 | 2.97 | 0.86 | 14.97 | 6.52 | 97.62 | 4.000 | Yes | Yes | 2.00 |
| 233 | 16.44 | 12.93 | 2.89 | 3.04 | 0.88 | 13.48 | 7.12 | 95.96 | 4.000 | Yes | Yes | 2.00 |
| 234 | 16.50 | 11.61 | 2.93 | 3.03 | 0.89 | 12.00 | 7.73 | 92.73 | 4.000 | Yes | Yes | 2.00 |
| 235 | 16.58 | 10.17 | 2.96 | 2.83 | 1.00 | 10.54 | 8.19 | 86.31 | 4.000 | Yes | Yes | 2.00 |
| 236 | 16.73 | 8.75 | 2.98 | 2.31 | 1.00 | 8.85 | 8.43 | 74.57 | 4.000 | No | Yes | 2.00 |
| 237 | 16.82 | 7.60 | 2.96 | 1.61 | 1.00 | 7.51 | 8.14 | 61.14 | 4.000 | No | Yes | 2.00 |
| 238 | 16.92 | 7.06 | 2.97 | 1.45 | 1.00 | 6.86 | 8.35 | 57.29 | 4.000 | No | Yes | 2.00 |
| 239 | 17.01 | 6.56 | 3.09 | 2.09 | 1.00 | 6.26 | 10.33 | 64.67 | 4.000 | No | Yes | 2.00 |
| 240 | 17.11 | 6.20 | 3.19 | 2.99 | 1.00 | 5.84 | 12.54 | 73.17 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 241 | 17.12 | 5.73 | 3.28 | 3.81 | 1.00 | 5.31 | 14.74 | 78.30 | 4.000 | No | Yes | 2.00 |
| 242 | 17.14 | 6.34 | 3.23 | 3.66 | 1.00 | 5.97 | 13.44 | 80.31 | 4.000 | No | Yes | 2.00 |
| 243 | 17.19 | 7.13 | 3.17 | 3.53 | 1.00 | 6.82 | 12.15 | 82.92 | 4.000 | No | Yes | 2.00 |
| 244 | 17.28 | 7.94 | 3.13 | 3.46 | 1.00 | 7.67 | 11.16 | 85.58 | 4.000 | No | Yes | 2.00 |
| 245 | 17.33 | 8.01 | 3.14 | 3.72 | 1.00 | 7.71 | 11.48 | 88.52 | 4.000 | No | Yes | 2.00 |
| 246 | 17.43 | 7.87 | 3.16 | 3.90 | 1.00 | 7.52 | 11.93 | 89.67 | 4.000 | No | Yes | 2.00 |
| 247 | 17.47 | 7.74 | 3.17 | 3.85 | 1.00 | 7.35 | 12.03 | 88.37 | 4.000 | No | Yes | 2.00 |
| 248 | 17.57 | 7.57 | 3.16 | 3.62 | 1.00 | 7.12 | 11.95 | 85.14 | 4.000 | No | Yes | 2.00 |
| 249 | 17.65 | 7.47 | 3.15 | 3.35 | 1.00 | 6.98 | 11.70 | 81.63 | 4.000 | No | Yes | 2.00 |
| 250 | 17.72 | 7.40 | 3.16 | 3.37 | 1.00 | 6.88 | 11.84 | 81.46 | 4.000 | No | Yes | 2.00 |
| 251 | 17.81 | 7.57 | 3.16 | 3.48 | 1.00 | 7.02 | 11.86 | 83.22 | 4.000 | No | Yes | 2.00 |
| 252 | 17.86 | 7.87 | 3.17 | 3.79 | 1.00 | 7.32 | 11.98 | 87.65 | 4.000 | No | Yes | 2.00 |
| 253 | 17.95 | 8.31 | 3.16 | 4.07 | 1.00 | 7.73 | 11.95 | 92.32 | 4.000 | No | Yes | 2.00 |
| 254 | 18.05 | 8.78 | 3.16 | 4.29 | 1.00 | 8.18 | 11.81 | 96.52 | 4.000 | No | Yes | 2.00 |
| 255 | 18.10 | 9.22 | 3.15 | 4.49 | 1.00 | 8.61 | 11.67 | 100.43 | 4.000 | No | Yes | 2.00 |
| 256 | 18.20 | 9.66 | 3.14 | 4.65 | 1.00 | 9.01 | 11.52 | 103.80 | 4.000 | No | Yes | 2.00 |
| 257 | 18.30 | 9.90 | 3.15 | 4.85 | 1.00 | 9.20 | 11.60 | 106.76 | 4.000 | No | Yes | 2.00 |
| 258 | 18.39 | 10.13 | 3.14 | 4.89 | 1.00 | 9.38 | 11.50 | 107.91 | 4.000 | No | Yes | 2.00 |
| 259 | 18.48 | 10.27 | 3.14 | 4.83 | 1.00 | 9.47 | 11.38 | 107.71 | 4.000 | No | Yes | 2.00 |
| 260 | 18.58 | 10.30 | 3.14 | 4.82 | 1.00 | 9.44 | 11.38 | 107.46 | 4.000 | No | Yes | 2.00 |
| 261 | 18.66 | 10.20 | 3.14 | 4.82 | 1.00 | 9.30 | 11.49 | 106.87 | 4.000 | No | Yes | 2.00 |
| 262 | 18.74 | 10.07 | 3.14 | 4.69 | 1.00 | 9.12 | 11.49 | 104.74 | 4.000 | No | Yes | 2.00 |
| 263 | 18.87 | 9.90 | 3.11 | 3.92 | 1.00 | 8.88 | 10.73 | 95.26 | 4.000 | No | Yes | 2.00 |
| 264 | 18.97 | 9.66 | 3.07 | 3.27 | 1.00 | 8.59 | 10.09 | 86.69 | 4.000 | No | Yes | 2.00 |
| 265 | 19.06 | 9.56 | 3.05 | 2.85 | 1.00 | 8.45 | 9.58 | 80.90 | 4.000 | No | Yes | 2.00 |
| 266 | 19.16 | 9.83 | 3.06 | 3.14 | 1.00 | 8.66 | 9.84 | 85.25 | 4.000 | No | Yes | 2.00 |
| 267 | 19.25 | 10.13 | 3.06 | 3.34 | 1.00 | 8.91 | 9.93 | 88.50 | 4.000 | No | Yes | 2.00 |
| 268 | 19.27 | 10.23 | 3.08 | 3.58 | 1.00 | 9.00 | 10.18 | 91.69 | 4.000 | No | Yes | 2.00 |
| 269 | 19.30 | 10.37 | 3.09 | 3.79 | 1.00 | 9.12 | 10.39 | 94.70 | 4.000 | No | Yes | 2.00 |
| 270 | 19.34 | 10.57 | 3.10 | 4.04 | 1.00 | 9.29 | 10.57 | 98.19 | 4.000 | No | Yes | 2.00 |
| 271 | 19.39 | 10.84 | 3.09 | 4.12 | 1.00 | 9.53 | 10.50 | 100.00 | 4.000 | No | Yes | 2.00 |
| 272 | 19.49 | 10.78 | 3.10 | 4.12 | 1.00 | 9.41 | 10.57 | 99.51 | 4.000 | No | Yes | 2.00 |
| 273 | 19.55 | 10.51 | 3.10 | 4.04 | 1.00 | 9.12 | 10.70 | 97.54 | 4.000 | No | Yes | 2.00 |
| 274 | 19.63 | 10.17 | 3.11 | 3.94 | 1.00 | 8.75 | 10.86 | 95.04 | 4.000 | No | Yes | 2.00 |
| 275 | 19.68 | 9.87 | 3.11 | 3.78 | 1.00 | 8.43 | 10.91 | 92.04 | 4.000 | No | Yes | 2.00 |
| 276 | 19.74 | 9.77 | 3.10 | 3.54 | 1.00 | 8.31 | 10.69 | 88.83 | 4.000 | No | Yes | 2.00 |
| 277 | 19.83 | 9.73 | 3.10 | 3.44 | 1.00 | 8.24 | 10.61 | 87.40 | 4.000 | No | Yes | 2.00 |
| 278 | 19.87 | 9.73 | 3.10 | 3.38 | 1.00 | 8.22 | 10.55 | 86.67 | 4.000 | No | Yes | 2.00 |
| 279 | 19.94 | 9.73 | 3.11 | 3.54 | 1.00 | 8.19 | 10.80 | 88.39 | 4.000 | No | Yes | 2.00 |
| 280 | 20.02 | 9.80 | 3.12 | 3.73 | 1.00 | 8.21 | 11.04 | 90.64 | 4.000 | No | Yes | 2.00 |
| 281 | 20.07 | 10.17 | 3.13 | 4.13 | 1.00 | 8.54 | 11.28 | 96.33 | 4.000 | No | Yes | 2.00 |
| 282 | 20.17 | 11.42 | 3.09 | 4.10 | 1.00 | 9.65 | 10.38 | 100.21 | 4.000 | No | Yes | 2.00 |
| 283 | 20.21 | 14.18 | 2.97 | 3.57 | 1.00 | 12.20 | 8.30 | 101.25 | 4.000 | Yes | Yes | 2.00 |
| 284 | 20.28 | 18.74 | 2.80 | 2.81 | 0.85 | 16.43 | 5.92 | 97.16 | 4.000 | Yes | Yes | 2.00 |
| 285 | 20.36 | 24.88 | 2.64 | 2.22 | 0.80 | 22.08 | 4.11 | 90.84 | 4.000 | Yes | Yes | 2.00 |
| 286 | 20.41 | 31.73 | 2.51 | 1.86 | 0.76 | 28.40 | 3.02 | 85.89 | 4.000 | Yes | No | 2.00 |
| 287 | 20.48 | 38.64 | 2.40 | 1.64 | 0.73 | 34.74 | 2.39 | 83.15 | 4.000 | Yes | No | 2.00 |
| 288 | 20.55 | 44.99 | 2.33 | 1.49 | 0.71 | 40.52 | 2.02 | 82.00 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 289 | 20.60 | 49.88 | 2.27 | 1.39 | 0.69 | 44.99 | 1.82 | 81.90 | 4.000 | Yes | No | 2.00 |
| 290 | 20.70 | 52.55 | 2.25 | 1.34 | 0.68 | 47.28 | 1.74 | 82.23 | 4.000 | No | No | 2.00 |
| 291 | 20.74 | 52.68 | 2.25 | 1.37 | 0.68 | 47.32 | 1.75 | 82.97 | 4.000 | No | No | 2.00 |
| 292 | 20.79 | 51.17 | 2.28 | 1.45 | 0.69 | 45.83 | 1.84 | 84.31 | 4.000 | No | No | 2.00 |
| 293 | 20.89 | 48.70 | 2.33 | 1.63 | 0.71 | 43.39 | 2.03 | 87.95 | 4.000 | No | No | 2.00 |
| 294 | 20.96 | 46.86 | 2.33 | 1.59 | 0.71 | 41.58 | 2.06 | 85.66 | 4.000 | No | No | 2.00 |
| 295 | 21.04 | 45.83 | 2.34 | 1.58 | 0.71 | 40.52 | 2.09 | 84.84 | 4.000 | No | No | 2.00 |
| 296 | 21.13 | 45.80 | 2.33 | 1.51 | 0.71 | 40.36 | 2.05 | 82.71 | 4.000 | No | No | 2.00 |
| 297 | 21.22 | 49.22 | 2.31 | 1.55 | 0.70 | 43.31 | 1.97 | 85.52 | 4.000 | No | No | 2.00 |
| 298 | 21.29 | 52.71 | 2.28 | 1.51 | 0.69 | 46.38 | 1.86 | 86.23 | 4.000 | No | No | 2.00 |
| 299 | 21.35 | 62.13 | 2.19 | 1.30 | 0.66 | 54.84 | 1.58 | 86.56 | 4.000 | No | No | 2.00 |
| 300 | 21.37 | 71.37 | 2.10 | 1.15 | 0.64 | 63.21 | 1.42 | 89.97 | 4.000 | No | No | 2.00 |
| 301 | 21.42 | 83.72 | 2.01 | 0.98 | 0.61 | 74.37 | 1.31 | 97.64 | 4.000 | No | No | 2.00 |
| 302 | 21.47 | 92.73 | 1.95 | 0.89 | 0.59 | 82.47 | 1.27 | 104.48 | 4.000 | No | No | 2.00 |
| 303 | 21.48 | 100.66 | 1.90 | 0.82 | 0.58 | 89.69 | 1.23 | 110.65 | 4.000 | No | No | 2.00 |
| 304 | 21.52 | 107.37 | 1.85 | 0.77 | 0.56 | 95.73 | 1.20 | 115.32 | 4.000 | No | No | 2.00 |
| 305 | 21.57 | 113.24 | 1.82 | 0.73 | 0.55 | 100.98 | 1.17 | 118.63 | 4.000 | No | No | 2.00 |
| 306 | 21.62 | 118.81 | 1.79 | 0.69 | 0.54 | 105.91 | 1.14 | 120.85 | 4.000 | No | No | 2.00 |
| 307 | 21.66 | 124.00 | 1.76 | 0.65 | 0.54 | 110.52 | 1.10 | 122.11 | 4.000 | No | No | 2.00 |
| 308 | 21.71 | 128.79 | 1.74 | 0.63 | 0.53 | 114.75 | 1.07 | 122.79 | 4.000 | No | No | 2.00 |
| 309 | 21.76 | 132.64 | 1.73 | 0.62 | 0.53 | 118.10 | 1.04 | 123.42 | 4.000 | No | No | 2.00 |
| 310 | 21.81 | 135.34 | 1.72 | 0.63 | 0.52 | 120.38 | 1.03 | 124.51 | 4.000 | No | No | 2.00 |
| 311 | 21.85 | 136.99 | 1.72 | 0.64 | 0.53 | 121.70 | 1.04 | 126.15 | 4.000 | No | No | 2.00 |
| 312 | 21.91 | 137.80 | 1.73 | 0.66 | 0.53 | 122.24 | 1.05 | 127.87 | 4.000 | No | No | 2.00 |
| 313 | 21.95 | 138.11 | 1.73 | 0.67 | 0.53 | 122.32 | 1.06 | 129.40 | 4.000 | No | No | 2.00 |
| 314 | 22.00 | 138.24 | 1.74 | 0.69 | 0.53 | 122.26 | 1.07 | 130.49 | 4.000 | No | No | 2.00 |
| 315 | 22.05 | 138.18 | 1.75 | 0.70 | 0.53 | 122.02 | 1.08 | 131.33 | 4.000 | No | No | 2.00 |
| 316 | 22.10 | 138.24 | 1.75 | 0.71 | 0.53 | 121.90 | 1.08 | 132.00 | 4.000 | No | No | 2.00 |
| 317 | 22.15 | 138.31 | 1.75 | 0.72 | 0.53 | 121.77 | 1.09 | 132.56 | 4.000 | No | No | 2.00 |
| 318 | 22.19 | 138.68 | 1.75 | 0.72 | 0.53 | 121.94 | 1.09 | 133.12 | 4.000 | No | No | 2.00 |
| 319 | 22.24 | 139.25 | 1.76 | 0.75 | 0.54 | 122.24 | 1.11 | 135.35 | 4.000 | No | No | 2.00 |
| 320 | 22.29 | 139.86 | 1.77 | 0.77 | 0.54 | 122.58 | 1.11 | 136.60 | 4.000 | No | No | 2.00 |
| 321 | 22.34 | 140.20 | 1.77 | 0.78 | 0.54 | 122.70 | 1.12 | 137.16 | 4.000 | No | No | 2.00 |
| 322 | 22.39 | 140.06 | 1.77 | 0.76 | 0.54 | 122.45 | 1.11 | 135.89 | 4.000 | No | No | 2.00 |
| 323 | 22.43 | 139.42 | 1.77 | 0.76 | 0.54 | 121.72 | 1.11 | 135.26 | 4.000 | No | No | 2.00 |
| 324 | 22.48 | 138.34 | 1.77 | 0.76 | 0.54 | 120.56 | 1.12 | 135.08 | 4.000 | No | No | 2.00 |
| 325 | 22.55 | 136.79 | 1.78 | 0.78 | 0.54 | 118.95 | 1.13 | 134.76 | 4.000 | No | No | 2.00 |
| 326 | 22.62 | 130.08 | 1.82 | 0.82 | 0.55 | 112.68 | 1.17 | 131.90 | 4.000 | No | No | 2.00 |
| 327 | 22.63 | 127.95 | 1.83 | 0.83 | 0.56 | 110.75 | 1.18 | 130.57 | 4.000 | No | No | 2.00 |
| 328 | 22.72 | 125.56 | 1.83 | 0.84 | 0.56 | 108.31 | 1.19 | 128.61 | 4.000 | No | No | 2.00 |
| 329 | 22.77 | 128.09 | 1.82 | 0.81 | 0.55 | 110.46 | 1.17 | 129.57 | 4.000 | No | No | 2.00 |
| 330 | 22.83 | 126.13 | 1.83 | 0.83 | 0.56 | 108.51 | 1.19 | 128.59 | 4.000 | No | No | 2.00 |
| 331 | 22.91 | 124.21 | 1.85 | 0.86 | 0.56 | 106.52 | 1.20 | 127.55 | 4.000 | No | No | 2.00 |
| 332 | 22.96 | 121.74 | 1.86 | 0.88 | 0.57 | 104.15 | 1.21 | 126.09 | 4.000 | No | No | 2.00 |
| 333 | 23.02 | 118.20 | 1.88 | 0.91 | 0.57 | 100.84 | 1.22 | 123.45 | 4.000 | No | No | 2.00 |
| 334 | 23.10 | 113.85 | 1.90 | 0.94 | 0.58 | 96.74 | 1.24 | 119.96 | 4.000 | No | No | 2.00 |
| 335 | 23.16 | 108.42 | 1.93 | 0.98 | 0.59 | 91.79 | 1.26 | 115.60 | 4.000 | No | No | 2.00 |
| 336 | 23.20 | 102.21 | 1.97 | 1.03 | 0.60 | 86.20 | 1.28 | 110.62 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 337 | 23.26 | 95.46 | 2.01 | 1.08 | 0.61 | 80.15 | 1.31 | 105.23 | 4.000 | No | No | 2.00 |
| 338 | 23.35 | 88.68 | 2.05 | 1.15 | 0.62 | 74.00 | 1.36 | 100.36 | 4.000 | No | No | 2.00 |
| 339 | 23.39 | 81.66 | 2.10 | 1.23 | 0.64 | 67.80 | 1.42 | 95.97 | 4.000 | No | No | 2.00 |
| 340 | 23.48 | 74.68 | 2.15 | 1.34 | 0.65 | 61.55 | 1.51 | 93.11 | 4.000 | No | No | 2.00 |
| 341 | 23.54 | 68.33 | 2.20 | 1.41 | 0.67 | 55.99 | 1.61 | 90.41 | 4.000 | No | No | 2.00 |
| 342 | 23.63 | 63.44 | 2.23 | 1.41 | 0.68 | 51.67 | 1.69 | 87.24 | 4.000 | No | No | 2.00 |
| 343 | 23.69 | 60.07 | 2.21 | 1.21 | 0.67 | 48.84 | 1.63 | 79.68 | 4.000 | No | No | 2.00 |
| 344 | 23.78 | 58.37 | 2.19 | 1.08 | 0.66 | 47.34 | 1.59 | 75.09 | 4.000 | No | No | 2.00 |
| 345 | 23.87 | 57.71 | 2.18 | 1.00 | 0.66 | 46.70 | 1.56 | 72.76 | 4.000 | No | No | 2.00 |
| 346 | 23.88 | 57.81 | 2.20 | 1.11 | 0.67 | 46.69 | 1.62 | 75.51 | 4.000 | No | No | 2.00 |
| 347 | 23.93 | 57.42 | 2.23 | 1.22 | 0.68 | 46.23 | 1.69 | 78.05 | 4.000 | No | No | 2.00 |
| 348 | 24.02 | 57.22 | 2.25 | 1.33 | 0.68 | 45.85 | 1.76 | 80.73 | 4.000 | No | No | 2.00 |
| 349 | 24.04 | 56.97 | 2.27 | 1.41 | 0.69 | 45.57 | 1.82 | 82.98 | 4.000 | No | No | 2.00 |
| 350 | 24.05 | 57.34 | 2.28 | 1.47 | 0.69 | 45.82 | 1.85 | 84.83 | 4.000 | No | No | 2.00 |
| 351 | 24.15 | 58.27 | 2.28 | 1.52 | 0.69 | 46.42 | 1.87 | 86.71 | 4.000 | No | No | 2.00 |
| 352 | 24.20 | 60.11 | 2.28 | 1.55 | 0.69 | 47.86 | 1.85 | 88.32 | 4.000 | No | No | 2.00 |
| 353 | 24.30 | 62.64 | 2.25 | 1.45 | 0.68 | 49.86 | 1.75 | 87.06 | 4.000 | No | No | 2.00 |
| 354 | 24.40 | 65.07 | 2.21 | 1.31 | 0.67 | 51.83 | 1.63 | 84.41 | 4.000 | No | No | 2.00 |
| 355 | 24.46 | 66.59 | 2.16 | 1.15 | 0.66 | 53.10 | 1.53 | 81.44 | 4.000 | No | No | 2.00 |
| 356 | 24.54 | 66.42 | 2.15 | 1.08 | 0.65 | 52.90 | 1.50 | 79.49 | 4.000 | No | No | 2.00 |
| 357 | 24.64 | 64.09 | 2.17 | 1.11 | 0.66 | 50.78 | 1.55 | 78.59 | 4.000 | Yes | No | 2.00 |
| 358 | 24.73 | 59.94 | 2.22 | 1.24 | 0.68 | 47.12 | 1.68 | 79.13 | 4.000 | Yes | No | 2.00 |
| 359 | 24.78 | 54.64 | 2.30 | 1.43 | 0.70 | 42.55 | 1.92 | 81.62 | 4.000 | Yes | No | 2.00 |
| 360 | 24.88 | 48.57 | 2.38 | 1.66 | 0.72 | 37.36 | 2.28 | 85.25 | 4.000 | Yes | No | 2.00 |
| 361 | 24.94 | 41.92 | 2.47 | 1.90 | 0.75 | 31.81 | 2.80 | 89.16 | 4.000 | Yes | No | 2.00 |
| 362 | 25.02 | 35.00 | 2.57 | 2.14 | 0.78 | 26.12 | 3.52 | 92.04 | 4.000 | Yes | No | 2.00 |
| 363 | 25.12 | 28.43 | 2.69 | 2.46 | 0.81 | 20.76 | 4.59 | 95.35 | 4.000 | Yes | Yes | 2.00 |
| 364 | 25.17 | 22.86 | 2.81 | 2.88 | 0.85 | 16.30 | 6.02 | 98.17 | 4.000 | Yes | Yes | 2.00 |
| 365 | 25.27 | 18.41 | 2.93 | 3.27 | 0.89 | 12.75 | 7.69 | 98.13 | 4.000 | Yes | Yes | 2.00 |
| 366 | 25.36 | 15.13 | 3.04 | 3.56 | 1.00 | 9.96 | 9.50 | 94.69 | 4.000 | No | Yes | 2.00 |
| 367 | 25.43 | 12.60 | 3.13 | 3.75 | 1.00 | 8.11 | 11.16 | 90.44 | 4.000 | No | Yes | 2.00 |
| 368 | 25.50 | 10.88 | 3.20 | 3.97 | 1.00 | 6.84 | 12.76 | 87.31 | 4.000 | No | Yes | 2.00 |
| 369 | 25.60 | 9.77 | 3.25 | 4.08 | 1.00 | 6.01 | 14.03 | 84.31 | 4.000 | No | Yes | 2.00 |
| 370 | 25.64 | 9.26 | 3.27 | 4.02 | 1.00 | 5.64 | 14.52 | 81.86 | 4.000 | No | Yes | 2.00 |
| 371 | 25.67 | 9.06 | 3.28 | 3.90 | 1.00 | 5.48 | 14.58 | 79.98 | 4.000 | No | Yes | 2.00 |
| 372 | 25.71 | 8.86 | 3.27 | 3.61 | 1.00 | 5.33 | 14.38 | 76.65 | 4.000 | No | Yes | 2.00 |
| 373 | 25.79 | 8.52 | 3.26 | 3.26 | 1.00 | 5.07 | 14.25 | 72.22 | 4.000 | No | Yes | 2.00 |
| 374 | 25.93 | 8.18 | 3.26 | 2.95 | 1.00 | 4.80 | 14.17 | 68.01 | 4.000 | No | Yes | 2.00 |
| 375 | 26.03 | 8.02 | 3.25 | 2.70 | 1.00 | 4.66 | 13.97 | 65.11 | 4.000 | No | Yes | 2.00 |
| 376 | 26.13 | 8.02 | 3.24 | 2.57 | 1.00 | 4.64 | 13.74 | 63.74 | 4.000 | No | Yes | 2.00 |
| 377 | 26.24 | 8.08 | 3.23 | 2.50 | 1.00 | 4.67 | 13.54 | 63.18 | 4.000 | No | Yes | 2.00 |
| 378 | 26.37 | 8.18 | 3.23 | 2.51 | 1.00 | 4.71 | 13.48 | 63.49 | 4.000 | No | Yes | 2.00 |
| 379 | 26.47 | 8.25 | 3.23 | 2.56 | 1.00 | 4.73 | 13.53 | 64.09 | 4.000 | No | Yes | 2.00 |
| 380 | 26.60 | 8.25 | 3.22 | 2.39 | 1.00 | 4.71 | 13.24 | 62.33 | 4.000 | No | Yes | 2.00 |
| 381 | 26.71 | 8.38 | 3.19 | 2.15 | 1.00 | 4.78 | 12.59 | 60.15 | 4.000 | No | Yes | 2.00 |
| 382 | 26.85 | 8.75 | 3.16 | 1.96 | 1.00 | 5.00 | 11.78 | 58.94 | 4.000 | No | Yes | 2.00 |
| 383 | 26.95 | 8.96 | 3.18 | 2.26 | 1.00 | 5.12 | 12.24 | 62.69 | 4.000 | No | Yes | 2.00 |
| 384 | 27.04 | 9.60 | 3.18 | 2.57 | 1.00 | 5.54 | 12.21 | 67.66 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 385 | 27.09 | 10.14 | 3.18 | 2.92 | 1.00 | 5.90 | 12.33 | 72.68 | 4.000 | No | Yes | 2.00 |
| 386 | 27.19 | 10.95 | 3.16 | 2.98 | 1.00 | 6.42 | 11.76 | 75.49 | 4.000 | No | Yes | 2.00 |
| 387 | 27.23 | 11.18 | 3.16 | 3.16 | 1.00 | 6.56 | 11.88 | 78.01 | 4.000 | No | Yes | 2.00 |
| 388 | 27.33 | 11.42 | 3.17 | 3.32 | 1.00 | 6.70 | 11.98 | 80.22 | 4.000 | No | Yes | 2.00 |
| 389 | 27.40 | 11.76 | 3.16 | 3.46 | 1.00 | 6.91 | 11.94 | 82.48 | 4.000 | No | Yes | 2.00 |
| 390 | 27.47 | 12.30 | 3.15 | 3.56 | 1.00 | 7.25 | 11.72 | 84.94 | 4.000 | No | Yes | 2.00 |
| 391 | 27.57 | 12.97 | 3.14 | 3.59 | 1.00 | 7.66 | 11.34 | 86.93 | 4.000 | No | Yes | 2.00 |
| 392 | 27.66 | 13.85 | 3.12 | 3.70 | 1.00 | 8.22 | 10.99 | 90.36 | 4.000 | No | Yes | 2.00 |
| 393 | 27.77 | 14.96 | 3.10 | 3.87 | 1.00 | 8.93 | 10.64 | 94.93 | 4.000 | No | Yes | 2.00 |
| 394 | 27.86 | 16.28 | 3.08 | 4.09 | 1.00 | 9.76 | 10.29 | 100.42 | 4.000 | No | Yes | 2.00 |
| 395 | 27.96 | 17.39 | 3.07 | 4.27 | 1.00 | 10.45 | 10.06 | 105.14 | 4.000 | No | Yes | 2.00 |
| 396 | 28.06 | 17.73 | 3.08 | 4.52 | 1.00 | 10.63 | 10.22 | 108.70 | 4.000 | No | Yes | 2.00 |
| 397 | 28.15 | 17.29 | 3.10 | 4.70 | 1.00 | 10.31 | 10.64 | 109.63 | 4.000 | No | Yes | 2.00 |
| 398 | 28.25 | 17.04 | 3.08 | 4.30 | 1.00 | 10.10 | 10.32 | 104.18 | 4.000 | No | Yes | 2.00 |
| 399 | 28.34 | 16.50 | 3.07 | 3.92 | 1.00 | 9.71 | 10.12 | 98.29 | 4.000 | No | Yes | 2.00 |
| 400 | 28.44 | 16.94 | 3.04 | 3.53 | 1.00 | 9.96 | 9.46 | 94.21 | 4.000 | No | Yes | 2.00 |
| 401 | 28.54 | 16.11 | 3.09 | 4.00 | 1.00 | 9.38 | 10.45 | 98.03 | 4.000 | No | Yes | 2.00 |
| 402 | 28.62 | 17.46 | 3.06 | 4.02 | 1.00 | 10.22 | 9.90 | 101.19 | 4.000 | No | Yes | 2.00 |
| 403 | 28.71 | 18.34 | 3.05 | 4.14 | 1.00 | 10.74 | 9.72 | 104.45 | 4.000 | No | Yes | 2.00 |
| 404 | 28.77 | 20.26 | 3.01 | 4.01 | 1.00 | 11.95 | 8.92 | 106.63 | 4.000 | No | Yes | 2.00 |
| 405 | 28.86 | 20.73 | 3.01 | 4.13 | 1.00 | 12.21 | 8.93 | 109.00 | 4.000 | No | Yes | 2.00 |
| 406 | 28.91 | 21.34 | 3.00 | 4.15 | 1.00 | 12.56 | 8.78 | 110.37 | 4.000 | No | Yes | 2.00 |
| 407 | 28.97 | 22.04 | 2.99 | 4.19 | 1.00 | 12.99 | 8.63 | 112.06 | 4.000 | No | Yes | 2.00 |
| 408 | 29.04 | 22.92 | 2.98 | 4.23 | 1.00 | 13.50 | 8.45 | 114.13 | 4.000 | No | Yes | 2.00 |
| 409 | 29.10 | 23.97 | 2.97 | 4.28 | 1.00 | 14.13 | 8.26 | 116.69 | 4.000 | No | Yes | 2.00 |
| 410 | 29.15 | 25.15 | 2.96 | 4.38 | 1.00 | 14.85 | 8.08 | 120.01 | 4.000 | No | Yes | 2.00 |
| 411 | 29.25 | 26.40 | 2.93 | 4.48 | 0.89 | 16.30 | 7.69 | 125.36 | 4.000 | No | Yes | 2.00 |
| 412 | 29.34 | 27.38 | 2.93 | 4.58 | 0.89 | 16.91 | 7.60 | 128.48 | 4.000 | No | Yes | 2.00 |
| 413 | 29.38 | 27.75 | 2.93 | 4.68 | 0.89 | 17.12 | 7.63 | 130.55 | 4.000 | No | Yes | 2.00 |
| 414 | 29.48 | 27.72 | 2.95 | 4.76 | 1.00 | 16.25 | 7.97 | 129.55 | 4.000 | No | Yes | 2.00 |
| 415 | 29.55 | 27.48 | 2.96 | 4.80 | 1.00 | 16.06 | 8.07 | 129.61 | 4.000 | Yes | Yes | 2.00 |
| 416 | 29.63 | 27.41 | 2.93 | 4.54 | 0.89 | 16.75 | 7.61 | 127.50 | 4.000 | Yes | Yes | 2.00 |
| 417 | 29.72 | 28.43 | 2.81 | 3.17 | 0.85 | 17.61 | 6.01 | 105.80 | 4.000 | Yes | Yes | 2.00 |
| 418 | 29.82 | 31.56 | 2.63 | 1.83 | 0.80 | 20.09 | 3.98 | 79.94 | 4.000 | Yes | Yes | 2.00 |
| 419 | 29.88 | 36.83 | 2.39 | 0.90 | 0.73 | 24.31 | 2.33 | 56.65 | 4.000 | Yes | No | 2.00 |
| 420 | 29.96 | 45.23 | 2.29 | 0.81 | 0.69 | 30.47 | 1.87 | 56.98 | 4.000 | Yes | No | 2.00 |
| 421 | 30.06 | 49.92 | 2.25 | 0.82 | 0.68 | 33.83 | 1.75 | 59.16 | 4.000 | Yes | No | 2.00 |
| 422 | 30.13 | 54.67 | 2.21 | 0.81 | 0.67 | 37.29 | 1.64 | 60.99 | 4.000 | Yes | No | 2.00 |
| 423 | 30.18 | 56.02 | 2.21 | 0.84 | 0.67 | 38.21 | 1.63 | 62.30 | 0.102 | No | No | 0.34 |
| 424 | 30.28 | 58.72 | 2.20 | 0.87 | 0.67 | 40.06 | 1.61 | 64.44 | 0.105 | No | No | 0.35 |
| 425 | 30.37 | 59.53 | 2.22 | 0.98 | 0.67 | 40.40 | 1.67 | 67.53 | 0.109 | No | No | 0.36 |
| 426 | 30.47 | 60.51 | 2.25 | 1.10 | 0.68 | 40.85 | 1.74 | 71.05 | 0.113 | No | No | 0.37 |
| 427 | 30.57 | 63.28 | 2.24 | 1.15 | 0.68 | 42.69 | 1.73 | 73.87 | 0.117 | No | No | 0.38 |
| 428 | 30.66 | 67.26 | 2.22 | 1.17 | 0.67 | 45.46 | 1.67 | 76.12 | 0.121 | No | No | 0.40 |
| 429 | 30.74 | 71.34 | 2.20 | 1.17 | 0.67 | 48.33 | 1.62 | 78.31 | 0.125 | No | No | 0.41 |
| 430 | 30.82 | 74.51 | 2.19 | 1.19 | 0.67 | 50.51 | 1.59 | 80.52 | 0.129 | No | No | 0.42 |
| 431 | 30.90 | 76.30 | 2.20 | 1.26 | 0.67 | 51.60 | 1.61 | 82.93 | 0.133 | No | No | 0.43 |
| 432 | 31.01 | 76.90 | 2.22 | 1.35 | 0.67 | 51.74 | 1.66 | 85.67 | 0.138 | No | No | 0.45 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 433 | 31.10 | 77.02 | 2.24 | 1.50 | 0.68 | 51.51 | 1.74 | 89.47 | 0.147 | No | No | 0.48 |
| 434 | 31.19 | 77.06 | 2.28 | 1.66 | 0.69 | 51.19 | 1.84 | 93.96 | 0.157 | No | No | 0.51 |
| 435 | 31.28 | 77.57 | 2.30 | 1.81 | 0.70 | 51.24 | 1.92 | 98.21 | 0.168 | No | No | 0.54 |
| 436 | 31.35 | 78.53 | 2.31 | 1.92 | 0.70 | 51.70 | 1.97 | 101.82 | 0.178 | No | No | 0.58 |
| 437 | 31.43 | 80.52 | 2.31 | 1.98 | 0.70 | 52.90 | 1.98 | 104.59 | 0.186 | No | No | 0.60 |
| 438 | 31.53 | 83.11 | 2.31 | 2.04 | 0.70 | 54.53 | 1.97 | 107.28 | 0.195 | No | No | 0.63 |
| 439 | 31.60 | 85.91 | 2.26 | 1.77 | 0.69 | 56.74 | 1.78 | 101.10 | 0.176 | No | No | 0.57 |
| 440 | 31.67 | 88.07 | 2.21 | 1.54 | 0.67 | 58.52 | 1.64 | 95.74 | 0.162 | No | No | 0.52 |
| 441 | 31.77 | 89.46 | 2.16 | 1.33 | 0.66 | 59.74 | 1.53 | 91.18 | 0.150 | No | No | 0.48 |
| 442 | 31.84 | 89.86 | 2.18 | 1.41 | 0.66 | 59.77 | 1.56 | 93.40 | 0.156 | No | No | 0.50 |
| 443 | 31.91 | 86.18 | 2.22 | 1.57 | 0.68 | 56.78 | 1.68 | 95.19 | 0.160 | No | No | 0.51 |
| 444 | 31.98 | 79.10 | 2.29 | 1.77 | 0.70 | 51.41 | 1.89 | 97.23 | 0.165 | No | No | 0.53 |
| 445 | 31.98 | 77.21 | 2.32 | 1.87 | 0.70 | 49.95 | 1.99 | 99.23 | 0.171 | No | No | 0.55 |
| 446 | 32.04 | 78.73 | 2.31 | 1.90 | 0.70 | 50.91 | 1.98 | 100.65 | 0.175 | No | No | 0.56 |
| 447 | 32.12 | 82.68 | 2.30 | 1.89 | 0.70 | 53.56 | 1.91 | 102.19 | 4.000 | Yes | No | 2.00 |
| 448 | 32.16 | 80.04 | 2.33 | 2.05 | 0.71 | 51.46 | 2.05 | 105.63 | 4.000 | Yes | No | 2.00 |
| 449 | 32.27 | 75.66 | 2.38 | 2.23 | 0.72 | 48.11 | 2.26 | 108.77 | 4.000 | Yes | No | 2.00 |
| 450 | 32.33 | 70.76 | 2.42 | 2.40 | 0.74 | 44.53 | 2.50 | 111.51 | 4.000 | Yes | No | 2.00 |
| 451 | 32.41 | 66.31 | 2.46 | 2.50 | 0.75 | 41.33 | 2.72 | 112.40 | 4.000 | Yes | No | 2.00 |
| 452 | 32.50 | 61.79 | 2.49 | 2.55 | 0.76 | 38.14 | 2.93 | 111.66 | 4.000 | Yes | No | 2.00 |
| 453 | 32.58 | 56.66 | 2.53 | 2.59 | 0.77 | 34.61 | 3.18 | 110.12 | 4.000 | Yes | No | 2.00 |
| 454 | 32.66 | 50.22 | 2.58 | 2.66 | 0.78 | 30.23 | 3.59 | 108.68 | 4.000 | Yes | No | 2.00 |
| 455 | 32.74 | 43.30 | 2.65 | 2.79 | 0.80 | 25.56 | 4.22 | 107.79 | 4.000 | Yes | Yes | 2.00 |
| 456 | 32.84 | 36.12 | 2.75 | 3.04 | 0.83 | 20.76 | 5.20 | 107.96 | 4.000 | Yes | Yes | 2.00 |
| 457 | 32.90 | 29.88 | 2.85 | 3.36 | 0.86 | 16.68 | 6.45 | 107.62 | 4.000 | Yes | Yes | 2.00 |
| 458 | 32.98 | 24.92 | 2.96 | 3.68 | 1.00 | 12.71 | 8.19 | 104.08 | 4.000 | Yes | Yes | 2.00 |
| 459 | 33.08 | 20.77 | 3.06 | 4.02 | 1.00 | 10.40 | 9.80 | 101.84 | 3.600 | No | Yes | 2.00 |
| 460 | 33.14 | 17.05 | 3.16 | 4.51 | 1.00 | 8.34 | 11.93 | 99.50 | 3.600 | No | Yes | 2.00 |
| 461 | 33.22 | 14.12 | 3.27 | 5.00 | 1.00 | 6.71 | 14.31 | 96.06 | 3.600 | No | Yes | 2.00 |
| 462 | 33.32 | 12.19 | 3.34 | 5.20 | 1.00 | 5.64 | 16.21 | 91.43 | 3.600 | No | Yes | 2.00 |
| 463 | 33.37 | 11.28 | 3.35 | 4.81 | 1.00 | 5.14 | 16.60 | 85.28 | 3.600 | No | Yes | 2.00 |
| 464 | 33.47 | 11.05 | 3.34 | 4.46 | 1.00 | 4.99 | 16.37 | 81.70 | 3.600 | No | Yes | 2.00 |
| 465 | 33.56 | 11.66 | 3.30 | 4.00 | 1.00 | 5.30 | 15.06 | 79.85 | 3.600 | No | Yes | 2.00 |
| 466 | 33.63 | 12.43 | 3.26 | 3.78 | 1.00 | 5.71 | 14.04 | 80.15 | 3.600 | No | Yes | 2.00 |
| 467 | 33.71 | 12.67 | 3.23 | 3.53 | 1.00 | 5.82 | 13.47 | 78.37 | 3.600 | No | Yes | 2.00 |
| 468 | 33.81 | 11.99 | 3.22 | 3.07 | 1.00 | 5.44 | 13.27 | 72.19 | 3.600 | No | Yes | 2.00 |
| 469 | 33.90 | 11.05 | 3.23 | 2.64 | 1.00 | 4.92 | 13.35 | 65.65 | 3.600 | No | Yes | 2.00 |
| 470 | 33.95 | 10.31 | 3.23 | 2.27 | 1.00 | 4.51 | 13.36 | 60.28 | 3.600 | No | Yes | 2.00 |
| 471 | 34.04 | 10.07 | 3.24 | 2.29 | 1.00 | 4.37 | 13.69 | 59.84 | 3.600 | No | Yes | 2.00 |
| 472 | 34.14 | 9.87 | 3.25 | 2.32 | 1.00 | 4.25 | 14.01 | 59.54 | 3.600 | No | Yes | 2.00 |
| 473 | 34.17 | 9.81 | 3.26 | 2.35 | 1.00 | 4.21 | 14.16 | 59.63 | 3.600 | No | Yes | 2.00 |
| 474 | 34.20 | 10.07 | 3.24 | 2.31 | 1.00 | 4.35 | 13.78 | 59.92 | 3.600 | No | Yes | 2.00 |
| 475 | 34.26 | 10.38 | 3.23 | 2.26 | 1.00 | 4.50 | 13.36 | 60.14 | 3.600 | No | Yes | 2.00 |
| 476 | 34.35 | 10.61 | 3.21 | 2.19 | 1.00 | 4.61 | 12.99 | 59.91 | 3.600 | No | Yes | 2.00 |
| 477 | 34.43 | 10.41 | 3.22 | 2.20 | 1.00 | 4.49 | 13.24 | 59.45 | 3.600 | No | Yes | 2.00 |
| 478 | 34.49 | 10.27 | 3.22 | 2.15 | 1.00 | 4.41 | 13.28 | 58.59 | 3.600 | No | Yes | 2.00 |
| 479 | 34.59 | 10.17 | 3.22 | 2.05 | 1.00 | 4.34 | 13.18 | 57.25 | 3.600 | No | Yes | 2.00 |
| 480 | 34.69 | 10.07 | 3.21 | 1.94 | 1.00 | 4.28 | 13.07 | 55.91 | 3.600 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 481 | 34.73 | 9.90 | 3.22 | 1.88 | 1.00 | 4.18 | 13.12 | 54.88 | 3.600 | No | Yes | 2.00 |
| 482 | 34.83 | 9.80 | 3.22 | 1.86 | 1.00 | 4.12 | 13.19 | 54.34 | 3.600 | No | Yes | 2.00 |
| 483 | 34.90 | 9.74 | 3.23 | 1.89 | 1.00 | 4.07 | 13.37 | 54.48 | 3.600 | No | Yes | 2.00 |
| 484 | 34.98 | 9.84 | 3.23 | 1.97 | 1.00 | 4.12 | 13.48 | 55.47 | 3.600 | No | Yes | 2.00 |
| 485 | 35.07 | 10.14 | 3.24 | 2.18 | 1.00 | 4.26 | 13.68 | 58.28 | 3.600 | No | Yes | 2.00 |
| 486 | 35.16 | 10.58 | 3.27 | 2.77 | 1.00 | 4.47 | 14.49 | 64.79 | 3.600 | No | Yes | 2.00 |
| 487 | 35.26 | 11.29 | 3.32 | 3.92 | 1.00 | 4.82 | 15.85 | 76.48 | 3.600 | No | Yes | 2.00 |
| 488 | 35.33 | 13.25 | 3.31 | 4.84 | 1.00 | 5.82 | 15.42 | 89.71 | 3.600 | No | Yes | 2.00 |
| 489 | 35.40 | 16.76 | 3.22 | 5.02 | 1.00 | 7.61 | 13.28 | 101.03 | 3.600 | No | Yes | 2.00 |
| 490 | 35.50 | 20.84 | 3.12 | 4.66 | 1.00 | 9.67 | 11.03 | 106.70 | 3.600 | No | Yes | 2.00 |
| 491 | 35.57 | 23.37 | 3.07 | 4.51 | 1.00 | 10.95 | 10.02 | 109.72 | 3.600 | No | Yes | 2.00 |
| 492 | 35.65 | 23.77 | 3.07 | 4.67 | 1.00 | 11.12 | 10.10 | 112.36 | 3.600 | No | Yes | 2.00 |
| 493 | 35.71 | 22.86 | 3.11 | 5.08 | 1.00 | 10.64 | 10.83 | 115.22 | 3.600 | No | Yes | 2.00 |
| 494 | 35.79 | 21.65 | 3.15 | 5.43 | 1.00 | 9.99 | 11.64 | 116.27 | 3.600 | No | Yes | 2.00 |
| 495 | 35.85 | 20.37 | 3.18 | 5.49 | 1.00 | 9.32 | 12.22 | 113.90 | 3.600 | No | Yes | 2.00 |
| 496 | 35.94 | 19.29 | 3.19 | 5.34 | 1.00 | 8.75 | 12.53 | 109.71 | 3.600 | No | Yes | 2.00 |
| 497 | 35.99 | 18.31 | 3.19 | 4.97 | 1.00 | 8.24 | 12.58 | 103.66 | 3.600 | No | Yes | 2.00 |
| 498 | 36.08 | 17.16 | 3.19 | 4.47 | 1.00 | 7.64 | 12.55 | 95.94 | 3.600 | No | Yes | 2.00 |
| 499 | 36.17 | 15.54 | 3.21 | 4.09 | 1.00 | 6.80 | 12.98 | 88.35 | 3.600 | No | Yes | 2.00 |
| 500 | 36.24 | 14.22 | 3.23 | 3.84 | 1.00 | 6.13 | 13.50 | 82.76 | 3.600 | No | Yes | 2.00 |
| 501 | 36.33 | 13.58 | 3.25 | 3.84 | 1.00 | 5.79 | 14.00 | 81.11 | 3.600 | No | Yes | 2.00 |
| 502 | 36.42 | 13.58 | 3.26 | 3.97 | 1.00 | 5.77 | 14.22 | 82.08 | 3.600 | No | Yes | 2.00 |
| 503 | 36.52 | 14.05 | 3.21 | 3.32 | 1.00 | 5.99 | 12.88 | 77.16 | 3.600 | No | Yes | 2.00 |
| 504 | 36.61 | 15.40 | 3.13 | 2.85 | 1.00 | 6.64 | 11.27 | 74.88 | 3.600 | No | Yes | 2.00 |
| 505 | 36.70 | 17.73 | 3.06 | 2.69 | 1.00 | 7.78 | 9.87 | 76.79 | 3.600 | No | Yes | 2.00 |
| 506 | 36.78 | 20.23 | 3.06 | 3.31 | 1.00 | 8.99 | 9.83 | 88.43 | 3.600 | No | Yes | 2.00 |
| 507 | 36.85 | 18.24 | 3.19 | 4.64 | 1.00 | 7.99 | 12.41 | 99.18 | 3.600 | No | Yes | 2.00 |
| 508 | 36.87 | 20.20 | 3.15 | 4.68 | 1.00 | 8.95 | 11.61 | 103.88 | 3.600 | No | Yes | 2.00 |
| 509 | 36.91 | 23.23 | 3.07 | 4.28 | 1.00 | 10.43 | 10.08 | 105.17 | 3.600 | No | Yes | 2.00 |
| 510 | 36.97 | 31.40 | 2.86 | 3.30 | 0.87 | 15.73 | 6.66 | 104.77 | 4.000 | Yes | Yes | 2.00 |
| 511 | 37.06 | 35.24 | 2.80 | 3.11 | 0.85 | 17.97 | 5.86 | 105.20 | 4.000 | Yes | Yes | 2.00 |
| 512 | 37.12 | 38.62 | 2.76 | 3.10 | 0.84 | 19.91 | 5.42 | 107.91 | 4.000 | Yes | Yes | 2.00 |
| 513 | 37.20 | 42.40 | 2.74 | 3.17 | 0.83 | 22.04 | 5.10 | 112.33 | 4.000 | Yes | Yes | 2.00 |
| 514 | 37.27 | 47.56 | 2.69 | 3.09 | 0.81 | 25.06 | 4.56 | 114.30 | 4.000 | Yes | Yes | 2.00 |
| 515 | 37.35 | 52.21 | 2.63 | 2.89 | 0.80 | 27.88 | 4.03 | 112.42 | 4.000 | Yes | Yes | 2.00 |
| 516 | 37.44 | 55.22 | 2.59 | 2.66 | 0.78 | 29.75 | 3.64 | 108.21 | 4.000 | Yes | No | 2.00 |
| 517 | 37.49 | 58.42 | 2.53 | 2.39 | 0.77 | 31.83 | 3.23 | 102.76 | 4.000 | Yes | No | 2.00 |
| 518 | 37.59 | 67.19 | 2.43 | 2.02 | 0.74 | 37.46 | 2.56 | 95.81 | 4.000 | Yes | No | 2.00 |
| 519 | 37.64 | 85.65 | 2.27 | 1.57 | 0.69 | 49.64 | 1.82 | 90.11 | 4.000 | Yes | No | 2.00 |
| 520 | 37.70 | 111.29 | 2.10 | 1.20 | 0.64 | 67.10 | 1.41 | 94.79 | 4.000 | Yes | No | 2.00 |
| 521 | 37.78 | 136.59 | 1.96 | 0.98 | 0.60 | 84.81 | 1.28 | 108.37 | 4.000 | Yes | No | 2.00 |
| 522 | 37.83 | 155.69 | 1.88 | 0.87 | 0.57 | 98.45 | 1.22 | 120.19 | 4.000 | Yes | No | 2.00 |
| 523 | 37.92 | 167.53 | 1.83 | 0.82 | 0.56 | 106.83 | 1.19 | 126.68 | 4.000 | Yes | No | 2.00 |
| 524 | 37.97 | 174.58 | 1.81 | 0.81 | 0.55 | 111.69 | 1.17 | 130.53 | 4.000 | Yes | No | 2.00 |
| 525 | 38.07 | 178.80 | 1.81 | 0.82 | 0.55 | 114.34 | 1.16 | 133.13 | 0.299 | No | No | 0.90 |
| 526 | 38.14 | 181.84 | 1.81 | 0.85 | 0.55 | 116.07 | 1.17 | 135.64 | 0.312 | No | No | 0.94 |
| 527 | 38.22 | 185.72 | 1.82 | 0.88 | 0.55 | 118.33 | 1.17 | 138.68 | 0.328 | No | No | 0.99 |
| 528 | 38.31 | 191.72 | 1.82 | 0.92 | 0.55 | 121.94 | 1.17 | 143.23 | 0.353 | No | No | 1.06 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 529 | 38.41 | 201.37 | 1.80 | 0.92 | 0.55 | 128.37 | 1.16 | 148.66 | 0.386 | No | No | 1.16 |
| 530 | 38.52 | 212.64 | 1.79 | 0.92 | 0.54 | 135.94 | 1.14 | 154.32 | 0.422 | No | No | 1.27 |
| 531 | 38.64 | 221.04 | 1.77 | 0.91 | 0.54 | 141.59 | 1.11 | 157.41 | 0.443 | No | No | 1.33 |
| 532 | 38.74 | 217.87 | 1.79 | 0.95 | 0.54 | 138.67 | 1.14 | 158.10 | 0.448 | No | No | 1.34 |
| 533 | 38.80 | 214.19 | 1.81 | 0.99 | 0.55 | 135.62 | 1.16 | 157.57 | 0.444 | No | No | 1.33 |
| 534 | 38.89 | 210.42 | 1.83 | 1.04 | 0.56 | 132.43 | 1.18 | 156.57 | 0.437 | No | No | 1.31 |
| 535 | 38.94 | 213.65 | 1.83 | 1.05 | 0.56 | 134.37 | 1.18 | 158.84 | 0.453 | No | No | 1.36 |
| 536 | 39.03 | 213.59 | 1.84 | 1.10 | 0.56 | 133.74 | 1.19 | 159.69 | 0.459 | No | No | 1.37 |
| 537 | 39.13 | 213.25 | 1.86 | 1.15 | 0.57 | 132.81 | 1.21 | 160.46 | 0.464 | No | No | 1.39 |
| 538 | 39.23 | 211.36 | 1.88 | 1.22 | 0.57 | 130.76 | 1.22 | 160.12 | 0.462 | No | No | 1.38 |
| 539 | 39.35 | 207.85 | 1.90 | 1.28 | 0.58 | 127.69 | 1.24 | 158.27 | 0.449 | No | No | 1.34 |
| 540 | 39.42 | 201.04 | 1.93 | 1.34 | 0.59 | 122.59 | 1.26 | 154.08 | 0.420 | No | No | 1.26 |
| 541 | 39.51 | 192.09 | 1.96 | 1.40 | 0.60 | 116.15 | 1.28 | 148.22 | 0.383 | No | No | 1.14 |
| 542 | 39.60 | 181.50 | 1.99 | 1.45 | 0.61 | 108.71 | 1.30 | 141.37 | 0.343 | No | No | 1.02 |
| 543 | 39.70 | 172.83 | 2.02 | 1.50 | 0.61 | 102.65 | 1.32 | 135.85 | 0.313 | No | No | 0.93 |
| 544 | 39.78 | 164.63 | 2.04 | 1.53 | 0.62 | 97.07 | 1.35 | 130.75 | 0.288 | No | No | 0.86 |
| 545 | 39.90 | 157.35 | 2.06 | 1.56 | 0.63 | 92.05 | 1.37 | 126.28 | 0.267 | No | No | 0.80 |
| 546 | 39.99 | 149.05 | 2.09 | 1.60 | 0.64 | 86.44 | 1.41 | 121.65 | 0.247 | No | No | 0.74 |
| 547 | 40.09 | 141.42 | 2.12 | 1.64 | 0.64 | 81.31 | 1.45 | 117.75 | 4.000 | Yes | No | 2.00 |
| 548 | 40.18 | 133.79 | 2.15 | 1.68 | 0.65 | 76.23 | 1.50 | 114.33 | 4.000 | Yes | No | 2.00 |
| 549 | 40.23 | 126.04 | 2.18 | 1.74 | 0.66 | 71.16 | 1.56 | 111.30 | 4.000 | Yes | No | 2.00 |
| 550 | 40.33 | 118.01 | 2.22 | 1.81 | 0.67 | 65.88 | 1.65 | 108.90 | 4.000 | Yes | No | 2.00 |
| 551 | 40.43 | 110.12 | 2.25 | 1.88 | 0.68 | 60.74 | 1.76 | 107.17 | 4.000 | Yes | No | 2.00 |
| 552 | 40.52 | 101.85 | 2.31 | 2.03 | 0.70 | 55.31 | 1.95 | 107.68 | 4.000 | Yes | No | 2.00 |
| 553 | 40.61 | 92.44 | 2.36 | 2.12 | 0.71 | 49.44 | 2.15 | 106.53 | 4.000 | Yes | No | 2.00 |
| 554 | 40.69 | 80.59 | 2.43 | 2.30 | 0.74 | 42.14 | 2.54 | 106.96 | 4.000 | Yes | No | 2.00 |
| 555 | 40.80 | 68.65 | 2.51 | 2.44 | 0.76 | 35.01 | 3.03 | 106.21 | 4.000 | Yes | No | 2.00 |
| 556 | 40.87 | 59.91 | 2.58 | 2.61 | 0.78 | 29.84 | 3.59 | 107.20 | 4.000 | Yes | No | 2.00 |
| 557 | 40.95 | 53.47 | 2.64 | 2.76 | 0.80 | 26.09 | 4.12 | 107.50 | 4.000 | Yes | Yes | 2.00 |
| 558 | 40.97 | 51.37 | 2.65 | 2.73 | 0.80 | 24.94 | 4.24 | 105.79 | 4.000 | Yes | Yes | 2.00 |
| 559 | 41.01 | 54.31 | 2.61 | 2.50 | 0.79 | 26.70 | 3.81 | 101.77 | 4.000 | Yes | Yes | 2.00 |
| 560 | 41.07 | 61.80 | 2.51 | 2.12 | 0.76 | 31.20 | 3.04 | 94.92 | 4.000 | Yes | No | 2.00 |
| 561 | 41.15 | 67.40 | 2.44 | 1.89 | 0.74 | 34.61 | 2.61 | 90.47 | 4.000 | Yes | No | 2.00 |
| 562 | 41.26 | 67.13 | 2.44 | 1.87 | 0.74 | 34.39 | 2.61 | 89.74 | 0.147 | No | No | 0.44 |
| 563 | 41.35 | 63.05 | 2.48 | 1.98 | 0.75 | 31.86 | 2.87 | 91.40 | 0.151 | No | No | 0.45 |
| 564 | 41.47 | 60.28 | 2.52 | 2.09 | 0.76 | 30.09 | 3.10 | 93.27 | 0.155 | No | No | 0.46 |
| 565 | 41.59 | 59.67 | 2.53 | 2.13 | 0.77 | 29.62 | 3.18 | 94.19 | 0.158 | No | No | 0.47 |
| 566 | 41.69 | 60.42 | 2.53 | 2.16 | 0.77 | 29.94 | 3.18 | 95.29 | 0.160 | No | No | 0.48 |
| 567 | 41.78 | 59.17 | 2.55 | 2.27 | 0.77 | 29.08 | 3.36 | 97.63 | 0.167 | No | No | 0.49 |
| 568 | 41.88 | 54.75 | 2.61 | 2.48 | 0.79 | 26.41 | 3.82 | 100.94 | 3.600 | No | Yes | 2.00 |
| 569 | 41.98 | 49.45 | 2.67 | 2.69 | 0.81 | 23.32 | 4.43 | 103.21 | 3.600 | No | Yes | 2.00 |
| 570 | 42.08 | 45.13 | 2.72 | 2.83 | 0.83 | 20.88 | 4.96 | 103.54 | 3.600 | No | Yes | 2.00 |
| 571 | 42.16 | 44.32 | 2.73 | 2.78 | 0.83 | 20.43 | 4.99 | 102.01 | 3.600 | No | Yes | 2.00 |
| 572 | 42.24 | 47.12 | 2.68 | 2.60 | 0.81 | 21.98 | 4.53 | 99.69 | 3.600 | No | Yes | 2.00 |
| 573 | 42.31 | 52.25 | 2.62 | 2.38 | 0.79 | 24.86 | 3.91 | 97.23 | 3.600 | No | Yes | 2.00 |
| 574 | 42.45 | 56.94 | 2.57 | 2.24 | 0.78 | 27.44 | 3.48 | 95.61 | 0.161 | No | No | 0.48 |
| 575 | 42.55 | 59.37 | 2.54 | 2.18 | 0.77 | 28.78 | 3.30 | 94.91 | 0.160 | No | No | 0.47 |
| 576 | 42.60 | 59.78 | 2.54 | 2.18 | 0.77 | 28.96 | 3.29 | 95.14 | 0.160 | No | No | 0.47 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 577 | 42.70 | 59.34 | 2.55 | 2.25 | 0.77 | 28.59 | 3.38 | 96.60 | 0.164 | No | No | 0.48 |
| 578 | 42.81 | 57.38 | 2.59 | 2.39 | 0.78 | 27.33 | 3.64 | 99.43 | 0.171 | No | No | 0.51 |
| 579 | 42.89 | 53.57 | 2.64 | 2.62 | 0.80 | 25.06 | 4.12 | 103.15 | 3.600 | No | Yes | 2.00 |
| 580 | 42.98 | 48.27 | 2.71 | 2.91 | 0.82 | 22.02 | 4.84 | 106.61 | 3.600 | No | Yes | 2.00 |
| 581 | 43.08 | 43.14 | 2.79 | 3.21 | 0.84 | 19.16 | 5.69 | 108.99 | 3.600 | No | Yes | 2.00 |
| 582 | 43.17 | 40.44 | 2.83 | 3.35 | 0.86 | 17.68 | 6.18 | 109.35 | 3.600 | No | Yes | 2.00 |
| 583 | 43.27 | 41.05 | 2.81 | 3.20 | 0.85 | 18.01 | 5.94 | 107.03 | 3.600 | No | Yes | 2.00 |
| 584 | 43.37 | 43.81 | 2.71 | 2.52 | 0.82 | 19.71 | 4.84 | 95.48 | 3.600 | No | Yes | 2.00 |
| 585 | 43.50 | 46.82 | 2.61 | 1.93 | 0.79 | 21.62 | 3.86 | 83.44 | 3.600 | No | Yes | 2.00 |
| 586 | 43.61 | 48.54 | 2.54 | 1.53 | 0.77 | 22.85 | 3.24 | 73.95 | 0.118 | No | No | 0.35 |
| 587 | 43.74 | 49.31 | 2.54 | 1.57 | 0.77 | 23.16 | 3.25 | 75.29 | 0.120 | No | No | 0.35 |
| 588 | 43.79 | 49.31 | 2.56 | 1.72 | 0.78 | 22.99 | 3.44 | 79.06 | 0.126 | No | No | 0.37 |
| 589 | 43.86 | 48.47 | 2.60 | 1.95 | 0.79 | 22.31 | 3.79 | 84.59 | 3.600 | No | Yes | 2.00 |
| 590 | 43.94 | 47.05 | 2.66 | 2.26 | 0.81 | 21.30 | 4.28 | 91.16 | 3.600 | No | Yes | 2.00 |
| 591 | 44.00 | 44.89 | 2.72 | 2.63 | 0.82 | 19.92 | 4.92 | 98.08 | 3.600 | No | Yes | 2.00 |
| 592 | 44.08 | 42.33 | 2.78 | 2.98 | 0.84 | 18.39 | 5.62 | 103.37 | 3.600 | No | Yes | 2.00 |
| 593 | 44.17 | 38.85 | 2.85 | 3.30 | 0.86 | 16.48 | 6.45 | 106.26 | 3.600 | No | Yes | 2.00 |
| 594 | 44.27 | 35.44 | 2.90 | 3.43 | 0.88 | 14.71 | 7.14 | 105.00 | 3.600 | No | Yes | 2.00 |
| 595 | 44.42 | 34.16 | 2.90 | 3.25 | 0.88 | 14.09 | 7.15 | 100.72 | 3.600 | No | Yes | 2.00 |
| 596 | 44.52 | 37.10 | 2.82 | 2.76 | 0.85 | 15.69 | 6.06 | 95.03 | 3.600 | No | Yes | 2.00 |
| 597 | 44.61 | 44.15 | 2.68 | 2.18 | 0.81 | 19.52 | 4.49 | 87.72 | 3.600 | No | Yes | 2.00 |
| 598 | 44.71 | 51.91 | 2.57 | 1.87 | 0.78 | 23.77 | 3.51 | 83.46 | 0.134 | No | No | 0.40 |
| 599 | 44.85 | 56.66 | 2.53 | 1.83 | 0.77 | 26.27 | 3.19 | 83.87 | 0.135 | No | No | 0.40 |
| 600 | 44.95 | 57.30 | 2.55 | 1.98 | 0.77 | 26.40 | 3.34 | 88.11 | 0.144 | No | No | 0.42 |
| 601 | 45.09 | 54.98 | 2.59 | 2.17 | 0.79 | 24.92 | 3.69 | 92.06 | 0.153 | No | No | 0.45 |
| 602 | 45.19 | 50.09 | 2.66 | 2.39 | 0.81 | 22.17 | 4.29 | 95.00 | 3.600 | No | Yes | 2.00 |
| 603 | 45.33 | 43.44 | 2.76 | 2.73 | 0.83 | 18.53 | 5.31 | 98.48 | 3.600 | No | Yes | 2.00 |
| 604 | 45.42 | 37.17 | 2.85 | 3.08 | 0.86 | 15.25 | 6.56 | 100.02 | 3.600 | No | Yes | 2.00 |
| 605 | 45.57 | 34.20 | 2.90 | 3.17 | 0.88 | 13.74 | 7.18 | 98.64 | 3.600 | No | Yes | 2.00 |
| 606 | 45.68 | 32.58 | 2.91 | 3.02 | 0.88 | 12.98 | 7.29 | 94.66 | 3.600 | No | Yes | 2.00 |
| 607 | 45.81 | 30.45 | 2.91 | 2.71 | 0.88 | 12.02 | 7.30 | 87.72 | 3.600 | No | Yes | 2.00 |
| 608 | 45.92 | 26.54 | 3.01 | 2.83 | 1.00 | 9.26 | 8.96 | 82.93 | 3.600 | No | Yes | 2.00 |
| 609 | 46.05 | 22.29 | 3.11 | 3.22 | 1.00 | 7.59 | 10.87 | 82.51 | 3.600 | No | Yes | 2.00 |
| 610 | 46.16 | 19.32 | 3.23 | 4.05 | 1.00 | 6.43 | 13.40 | 86.12 | 3.600 | No | Yes | 2.00 |
| 611 | 46.17 | 17.73 | 3.28 | 4.34 | 1.00 | 5.82 | 14.71 | 85.57 | 3.600 | No | Yes | 2.00 |
| 612 | 46.23 | 17.46 | 3.28 | 4.24 | 1.00 | 5.70 | 14.75 | 84.09 | 3.600 | No | Yes | 2.00 |
| 613 | 46.29 | 16.85 | 3.29 | 4.16 | 1.00 | 5.46 | 15.02 | 82.02 | 3.600 | No | Yes | 2.00 |
| 614 | 46.34 | 16.04 | 3.31 | 3.98 | 1.00 | 5.15 | 15.32 | 78.81 | 3.600 | No | Yes | 2.00 |
| 615 | 46.42 | 15.30 | 3.31 | 3.71 | 1.00 | 4.85 | 15.44 | 74.90 | 3.600 | No | Yes | 2.00 |
| 616 | 46.48 | 14.90 | 3.30 | 3.33 | 1.00 | 4.69 | 15.10 | 70.80 | 3.600 | No | Yes | 2.00 |
| 617 | 46.52 | 14.69 | 3.28 | 3.04 | 1.00 | 4.61 | 14.73 | 67.86 | 3.600 | No | Yes | 2.00 |
| 618 | 46.60 | 14.56 | 3.27 | 2.84 | 1.00 | 4.55 | 14.47 | 65.79 | 3.600 | No | Yes | 2.00 |
| 619 | 46.67 | 14.49 | 3.26 | 2.68 | 1.00 | 4.51 | 14.23 | 64.21 | 3.600 | No | Yes | 2.00 |
| 620 | 46.74 | 14.45 | 3.25 | 2.57 | 1.00 | 4.49 | 14.03 | 63.02 | 3.600 | No | Yes | 2.00 |
| 621 | 46.82 | 14.42 | 3.25 | 2.46 | 1.00 | 4.47 | 13.84 | 61.88 | 3.600 | No | Yes | 2.00 |
| 622 | 46.88 | 14.19 | 3.25 | 2.42 | 1.00 | 4.37 | 13.96 | 61.07 | 3.600 | No | Yes | 2.00 |
| 623 | 46.96 | 14.10 | 3.25 | 2.39 | 1.00 | 4.33 | 13.99 | 60.61 | 3.600 | No | Yes | 2.00 |
| 624 | 47.06 | 13.97 | 3.26 | 2.41 | 1.00 | 4.27 | 14.16 | 60.52 | 3.600 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 625 | 47.15 | 14.11 | 3.26 | 2.45 | 1.00 | 4.31 | 14.15 | 61.03 | 3.600 | No | Yes | 2.00 |
| 626 | 47.24 | 14.43 | 3.28 | 2.83 | 1.00 | 4.42 | 14.72 | 65.10 | 3.600 | No | Yes | 2.00 |
| 627 | 47.35 | 16.18 | 3.29 | 3.62 | 1.00 | 5.07 | 14.87 | 75.39 | 3.600 | No | Yes | 2.00 |
| 628 | 47.49 | 19.69 | 3.20 | 3.51 | 1.00 | 6.36 | 12.67 | 80.67 | 3.600 | No | Yes | 2.00 |
| 629 | 47.58 | 24.11 | 3.09 | 3.10 | 1.00 | 8.00 | 10.33 | 82.65 | 3.600 | No | Yes | 2.00 |
| 630 | 47.73 | 26.03 | 3.03 | 2.80 | 1.00 | 8.69 | 9.32 | 80.95 | 3.600 | No | Yes | 2.00 |
| 631 | 47.83 | 27.06 | 3.02 | 2.79 | 1.00 | 9.05 | 9.05 | 81.84 | 3.600 | No | Yes | 2.00 |
| 632 | 47.87 | 26.18 | 3.04 | 2.97 | 1.00 | 8.71 | 9.55 | 83.19 | 3.600 | No | Yes | 2.00 |
| 633 | 47.89 | 26.93 | 3.02 | 2.82 | 1.00 | 8.98 | 9.14 | 82.12 | 3.600 | No | Yes | 2.00 |
| 634 | 47.94 | 26.64 | 3.02 | 2.81 | 1.00 | 8.87 | 9.20 | 81.59 | 3.600 | No | Yes | 2.00 |
| 635 | 48.02 | 26.81 | 3.02 | 2.75 | 1.00 | 8.91 | 9.08 | 80.90 | 3.600 | No | Yes | 2.00 |
| 636 | 48.07 | 26.40 | 3.03 | 2.79 | 1.00 | 8.75 | 9.26 | 81.07 | 3.600 | No | Yes | 2.00 |
| 637 | 48.12 | 25.97 | 3.05 | 2.94 | 1.00 | 8.58 | 9.61 | 82.45 | 3.600 | No | Yes | 2.00 |
| 638 | 48.18 | 25.43 | 3.07 | 3.12 | 1.00 | 8.37 | 10.05 | 84.09 | 3.600 | No | Yes | 2.00 |
| 639 | 48.26 | 25.01 | 3.09 | 3.28 | 1.00 | 8.20 | 10.42 | 85.42 | 3.600 | No | Yes | 2.00 |
| 640 | 48.31 | 24.60 | 3.10 | 3.27 | 1.00 | 8.04 | 10.54 | 84.77 | 3.600 | No | Yes | 2.00 |
| 641 | 48.38 | 24.56 | 3.08 | 3.09 | 1.00 | 8.01 | 10.30 | 82.58 | 3.600 | No | Yes | 2.00 |
| 642 | 48.46 | 24.71 | 3.06 | 2.82 | 1.00 | 8.05 | 9.85 | 79.31 | 3.600 | No | Yes | 2.00 |
| 643 | 48.52 | 24.41 | 3.05 | 2.59 | 1.00 | 7.93 | 9.58 | 75.99 | 3.600 | No | Yes | 2.00 |
| 644 | 48.60 | 23.16 | 3.05 | 2.42 | 1.00 | 7.46 | 9.70 | 72.40 | 3.600 | No | Yes | 2.00 |
| 645 | 48.68 | 20.77 | 3.10 | 2.41 | 1.00 | 6.57 | 10.59 | 69.64 | 3.600 | No | Yes | 2.00 |
| 646 | 48.74 | 18.20 | 3.17 | 2.55 | 1.00 | 5.63 | 12.04 | 67.76 | 3.600 | No | Yes | 2.00 |
| 647 | 48.82 | 15.94 | 3.25 | 2.86 | 1.00 | 4.80 | 14.01 | 67.24 | 3.600 | No | Yes | 2.00 |
| 648 | 48.89 | 14.56 | 3.31 | 3.07 | 1.00 | 4.29 | 15.49 | 66.41 | 3.600 | No | Yes | 2.00 |
| 649 | 48.99 | 13.82 | 3.34 | 3.08 | 1.00 | 4.01 | 16.21 | 64.98 | 3.600 | No | Yes | 2.00 |
| 650 | 49.05 | 13.65 | 3.32 | 2.83 | 1.00 | 3.94 | 15.85 | 62.48 | 3.600 | No | Yes | 2.00 |
| 651 | 49.12 | 13.51 | 3.31 | 2.54 | 1.00 | 3.89 | 15.38 | 59.74 | 3.600 | No | Yes | 2.00 |
| 652 | 49.18 | 13.55 | 3.28 | 2.25 | 1.00 | 3.89 | 14.70 | 57.20 | 3.600 | No | Yes | 2.00 |
| 653 | 49.27 | 13.75 | 3.26 | 2.06 | 1.00 | 3.96 | 14.08 | 55.71 | 3.600 | No | Yes | 2.00 |
| 654 | 49.32 | 13.92 | 3.24 | 1.91 | 1.00 | 4.01 | 13.56 | 54.42 | 3.600 | No | Yes | 2.00 |
| 655 | 49.42 | 13.55 | 3.25 | 1.92 | 1.00 | 3.87 | 13.92 | 53.88 | 3.600 | No | Yes | 2.00 |
| 656 | 49.48 | 13.11 | 3.27 | 1.97 | 1.00 | 3.71 | 14.46 | 53.63 | 3.600 | No | Yes | 2.00 |
| 657 | 49.56 | 13.01 | 3.28 | 2.04 | 1.00 | 3.66 | 14.76 | 54.09 | 3.600 | No | Yes | 2.00 |
| 658 | 49.66 | 13.28 | 3.28 | 2.12 | 1.00 | 3.75 | 14.73 | 55.25 | 3.600 | No | Yes | 2.00 |
| 659 | 49.76 | 13.68 | 3.27 | 2.16 | 1.00 | 3.89 | 14.49 | 56.33 | 3.600 | No | Yes | 2.00 |
| 660 | 49.85 | 14.06 | 3.23 | 1.87 | 1.00 | 4.01 | 13.46 | 54.00 | 3.600 | No | Yes | 2.00 |
| 661 | 49.99 | 14.87 | 3.17 | 1.52 | 1.00 | 4.29 | 11.96 | 51.28 | 3.600 | No | Yes | 2.00 |
| 662 | 50.09 | 14.43 | 3.16 | 1.38 | 1.00 | 4.12 | 11.90 | 49.07 | 3.600 | No | Yes | 2.00 |
| 663 | 50.21 | 13.82 | 3.21 | 1.57 | 1.00 | 3.89 | 12.94 | 50.39 | 3.600 | No | Yes | 2.00 |
| 664 | 50.24 | 13.21 | 3.24 | 1.66 | 1.00 | 3.68 | 13.72 | 50.47 | 3.600 | No | Yes | 2.00 |
| 665 | 50.29 | 13.59 | 3.21 | 1.54 | 1.00 | 3.81 | 13.05 | 49.66 | 3.600 | No | Yes | 2.00 |
| 666 | 50.38 | 13.69 | 3.20 | 1.45 | 1.00 | 3.83 | 12.73 | 48.82 | 3.600 | No | Yes | 2.00 |
| 667 | 50.47 | 13.39 | 3.21 | 1.45 | 1.00 | 3.72 | 13.00 | 48.36 | 3.600 | No | Yes | 2.00 |
| 668 | 50.52 | 12.98 | 3.24 | 1.53 | 1.00 | 3.57 | 13.61 | 48.61 | 3.600 | No | Yes | 2.00 |
| 669 | 50.62 | 13.01 | 3.24 | 1.57 | 1.00 | 3.58 | 13.73 | 49.09 | 3.600 | No | Yes | 2.00 |
| 670 | 50.66 | 13.15 | 3.24 | 1.60 | 1.00 | 3.62 | 13.70 | 49.58 | 3.600 | No | Yes | 2.00 |
| 671 | 50.76 | 13.28 | 3.24 | 1.64 | 1.00 | 3.66 | 13.70 | 50.11 | 3.600 | No | Yes | 2.00 |
| 672 | 50.83 | 14.13 | 3.21 | 1.63 | 1.00 | 3.95 | 12.99 | 51.29 | 3.600 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 673 | 50.91 | 14.30 | 3.23 | 1.81 | 1.00 | 4.00 | 13.34 | 53.36 | 3.600 | No | Yes | 2.00 |
| 674 | 51.00 | 15.61 | 3.19 | 1.82 | 1.00 | 4.45 | 12.42 | 55.29 | 3.600 | No | Yes | 2.00 |
| 675 | 51.06 | 17.36 | 3.13 | 1.78 | 1.00 | 5.06 | 11.27 | 56.99 | 3.600 | No | Yes | 2.00 |
| 676 | 51.15 | 17.67 | 3.16 | 2.10 | 1.00 | 5.15 | 11.86 | 61.08 | 3.600 | No | Yes | 2.00 |
| 677 | 51.24 | 16.35 | 3.27 | 2.96 | 1.00 | 4.68 | 14.43 | 67.57 | 3.600 | No | Yes | 2.00 |
| 678 | 51.31 | 12.88 | 3.51 | 5.15 | 1.00 | 3.47 | 21.69 | 75.27 | 3.600 | No | Yes | 2.00 |
| 679 | 51.39 | 18.55 | 3.28 | 3.96 | 1.00 | 5.43 | 14.77 | 80.15 | 3.600 | No | Yes | 2.00 |
| 680 | 51.48 | 32.14 | 2.90 | 2.47 | 0.88 | 11.43 | 7.23 | 82.64 | 3.600 | No | Yes | 2.00 |
| 681 | 51.58 | 35.38 | 2.87 | 2.60 | 0.87 | 12.78 | 6.83 | 87.30 | 3.600 | No | Yes | 2.00 |
| 682 | 51.68 | 27.82 | 3.10 | 3.71 | 1.00 | 8.59 | 10.70 | 91.85 | 3.600 | No | Yes | 2.00 |
| 683 | 51.77 | 17.84 | 3.45 | 6.98 | 1.00 | 5.13 | 19.49 | 100.06 | 3.600 | No | Yes | 2.00 |
| 684 | 51.90 | 36.80 | 3.02 | 4.07 | 1.00 | 11.62 | 9.16 | 106.47 | 3.600 | No | Yes | 2.00 |
| 685 | 52.01 | 74.42 | 2.58 | 2.71 | 0.78 | 30.49 | 3.61 | 110.20 | 4.000 | Yes | No | 2.00 |
| 686 | 52.11 | 128.50 | 2.34 | 2.42 | 0.71 | 57.50 | 2.11 | 121.05 | 4.000 | Yes | No | 2.00 |
| 687 | 52.26 | 161.87 | 2.25 | 2.35 | 0.68 | 74.64 | 1.77 | 131.90 | 4.000 | Yes | No | 2.00 |
| 688 | 52.30 | 209.17 | 2.12 | 2.06 | 0.65 | 100.78 | 1.45 | 146.55 | 4.000 | Yes | No | 2.00 |
| 689 | 52.33 | 248.44 | 2.00 | 1.70 | 0.61 | 124.60 | 1.31 | 162.63 | 4.000 | Yes | No | 2.00 |
| 690 | 52.35 | 302.93 | 1.87 | 1.40 | 0.57 | 158.50 | 1.21 | 192.22 | 4.000 | Yes | No | 2.00 |
| 691 | 52.40 | 347.53 | 1.78 | 1.23 | 0.54 | 187.07 | 1.12 | 209.95 | 4.000 | Yes | No | 2.00 |
| 692 | 52.45 | 381.51 | 1.72 | 1.16 | 0.53 | 208.63 | 1.04 | 216.58 | 4.000 | Yes | No | 2.00 |
| 693 | 52.50 | 415.58 | 1.69 | 1.13 | 0.51 | 229.89 | 1.00 | 229.89 | 4.000 | No | No | 2.00 |
| 694 | 52.55 | 447.33 | 1.67 | 1.14 | 0.51 | 248.98 | 1.00 | 248.98 | 4.000 | No | No | 2.00 |
| 695 | 52.60 | 486.53 | 1.63 | 1.11 | 0.50 | 273.15 | 1.00 | 273.15 | 4.000 | No | No | 2.00 |
| 696 | 52.65 | 516.02 | 1.60 | 1.04 | 0.50 | 289.64 | 1.00 | 289.64 | 4.000 | No | No | 2.00 |
| 697 | 52.71 | 531.14 | 1.57 | 0.97 | 0.50 | 297.95 | 1.00 | 297.95 | 4.000 | No | No | 2.00 |
| 698 | 52.77 | 541.83 | 1.53 | 0.90 | 0.50 | 303.79 | 1.00 | 303.79 | 4.000 | No | No | 2.00 |
| 699 | 52.82 | 558.50 | 1.51 | 0.85 | 0.50 | 312.99 | 1.00 | 312.99 | 4.000 | No | No | 2.00 |
| 700 | 52.88 | 578.13 | 1.48 | 0.81 | 0.50 | 323.84 | 1.00 | 323.84 | 4.000 | No | No | 2.00 |
| 701 | 52.93 | 592.07 | 1.46 | 0.79 | 0.50 | 331.46 | 1.00 | 331.46 | 4.000 | No | No | 2.00 |
| 702 | 52.98 | 605.70 | 1.46 | 0.78 | 0.50 | 338.95 | 1.00 | 338.95 | 4.000 | No | No | 2.00 |
| 703 | 53.03 | 608.64 | 1.46 | 0.79 | 0.50 | 340.39 | 1.00 | 340.39 | 4.000 | No | No | 2.00 |
| 704 | 53.08 | 608.27 | 1.46 | 0.80 | 0.50 | 340.01 | 1.00 | 340.01 | 4.000 | No | No | 2.00 |
| 705 | 53.12 | 601.01 | 1.47 | 0.80 | 0.50 | 335.78 | 1.00 | 335.78 | 4.000 | No | No | 2.00 |
| 706 | 53.17 | 598.22 | 1.46 | 0.78 | 0.50 | 333.99 | 1.00 | 333.99 | 4.000 | No | No | 2.00 |
| 707 | 53.23 | 600.71 | 1.45 | 0.76 | 0.50 | 335.19 | 1.00 | 335.19 | 4.000 | No | No | 2.00 |
| 708 | 53.28 | 596.23 | 1.47 | 0.79 | 0.50 | 332.45 | 1.00 | 332.45 | 4.000 | No | No | 2.00 |
| 709 | 53.37 | 588.50 | 1.48 | 0.83 | 0.50 | 327.80 | 1.00 | 327.80 | 4.000 | No | No | 2.00 |
| 710 | 53.42 | 584.11 | 1.50 | 0.86 | 0.50 | 325.17 | 1.00 | 325.17 | 4.000 | No | No | 2.00 |
| 711 | 53.46 | 586.81 | 1.52 | 0.90 | 0.50 | 326.50 | 1.00 | 326.50 | 4.000 | No | No | 2.00 |
| 712 | 53.53 | 599.03 | 1.53 | 0.96 | 0.50 | 333.09 | 1.00 | 333.09 | 4.000 | No | No | 2.00 |
| 713 | 53.61 | 597.34 | 1.56 | 1.05 | 0.50 | 331.84 | 1.00 | 331.84 | 4.000 | No | No | 2.00 |
| 714 | 53.62 | 582.26 | 1.60 | 1.13 | 0.50 | 323.39 | 1.00 | 323.39 | 4.000 | No | No | 2.00 |
| 715 | 53.65 | 574.05 | 1.60 | 1.15 | 0.50 | 318.67 | 1.00 | 318.67 | 4.000 | No | No | 2.00 |
| 716 | 53.67 | 571.35 | 1.61 | 1.16 | 0.50 | 317.12 | 1.00 | 317.12 | 4.000 | No | No | 2.00 |
| 717 | 53.70 | 583.83 | 1.59 | 1.12 | 0.50 | 323.95 | 1.00 | 323.95 | 4.000 | No | No | 2.00 |
| 718 | 53.74 | 582.83 | 1.60 | 1.14 | 0.50 | 323.26 | 1.00 | 323.26 | 4.000 | No | No | 2.00 |
| 719 | 53.76 | 583.81 | 1.60 | 1.14 | 0.50 | 323.74 | 1.00 | 323.74 | 4.000 | No | No | 2.00 |
| 720 | 53.80 | 581.08 | 1.59 | 1.13 | 0.50 | 322.06 | 1.00 | 322.06 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 721 | 53.84 | 577.81 | 1.59 | 1.10 | 0.50 | 320.07 | 1.00 | 320.07 | 4.000 | No | No | 2.00 |
| 722 | 53.90 | 578.23 | 1.58 | 1.07 | 0.50 | 320.12 | 1.00 | 320.12 | 4.000 | No | No | 2.00 |
| 723 | 53.91 | 570.20 | 1.59 | 1.08 | 0.50 | 315.61 | 1.00 | 315.61 | 4.000 | No | No | 2.00 |
| 724 | 53.95 | 573.64 | 1.58 | 1.08 | 0.50 | 317.38 | 1.00 | 317.38 | 4.000 | No | No | 2.00 |
| 725 | 53.96 | 579.94 | 1.58 | 1.07 | 0.50 | 320.83 | 1.00 | 320.83 | 4.000 | No | No | 2.00 |
| 726 | 53.98 | 601.06 | 1.56 | 1.04 | 0.50 | 332.48 | 1.00 | 332.48 | 4.000 | No | No | 2.00 |
| 727 | 53.99 | 602.95 | 1.56 | 1.03 | 0.50 | 333.50 | 1.00 | 333.50 | 4.000 | No | No | 2.00 |
| 728 | 54.01 | 592.15 | 1.57 | 1.05 | 0.50 | 327.46 | 1.00 | 327.46 | 4.000 | No | No | 2.00 |
| 729 | 54.02 | 579.33 | 1.58 | 1.08 | 0.50 | 320.31 | 1.00 | 320.31 | 4.000 | No | No | 2.00 |
| 730 | 54.03 | 553.15 | 1.61 | 1.13 | 0.50 | 305.74 | 1.00 | 305.74 | 4.000 | No | No | 2.00 |
| 731 | 54.04 | 504.84 | 1.67 | 1.24 | 0.51 | 276.21 | 1.00 | 276.21 | 4.000 | No | No | 2.00 |
| 732 | 54.05 | 452.17 | 1.75 | 1.40 | 0.53 | 241.19 | 1.08 | 260.14 | 4.000 | No | No | 2.00 |
| 733 | 54.09 | 422.63 | 1.79 | 1.51 | 0.55 | 221.81 | 1.15 | 254.46 | 4.000 | No | No | 2.00 |
| 734 | 54.10 | 421.59 | 1.80 | 1.53 | 0.55 | 220.94 | 1.15 | 254.57 | 4.000 | No | No | 2.00 |
| 735 | 54.13 | 421.89 | 1.80 | 1.53 | 0.55 | 221.06 | 1.15 | 254.64 | 4.000 | No | No | 2.00 |
| 736 | 54.14 | 420.96 | 1.80 | 1.54 | 0.55 | 220.34 | 1.16 | 254.59 | 4.000 | No | No | 2.00 |
| 737 | 54.19 | 422.82 | 1.80 | 1.54 | 0.55 | 221.19 | 1.16 | 255.77 | 4.000 | No | No | 2.00 |
| 738 | 54.19 | 428.79 | 1.80 | 1.55 | 0.55 | 224.52 | 1.15 | 258.95 | 4.000 | No | No | 2.00 |
| 739 | 54.24 | 439.22 | 1.77 | 1.47 | 0.54 | 231.86 | 1.12 | 259.93 | 4.000 | No | No | 2.00 |
| 740 | 54.29 | 456.97 | 1.71 | 1.29 | 0.52 | 245.94 | 1.02 | 249.88 | 4.000 | No | No | 2.00 |
| 741 | 54.33 | 474.10 | 1.64 | 1.08 | 0.50 | 261.31 | 1.00 | 261.31 | 4.000 | No | No | 2.00 |
| 742 | 54.38 | 494.95 | 1.57 | 0.92 | 0.50 | 272.80 | 1.00 | 272.80 | 4.000 | No | No | 2.00 |
| 743 | 54.39 | 512.70 | 1.53 | 0.85 | 0.50 | 282.62 | 1.00 | 282.62 | 4.000 | No | No | 2.00 |
| 744 | 54.43 | 529.13 | 1.52 | 0.84 | 0.50 | 291.66 | 1.00 | 291.66 | 4.000 | No | No | 2.00 |
| 745 | 54.48 | 543.10 | 1.44 | 0.67 | 0.50 | 299.32 | 1.00 | 299.32 | 4.000 | No | No | 2.00 |
| 746 | 54.52 | 556.66 | 1.36 | 0.53 | 0.50 | 306.76 | 1.00 | 306.76 | 4.000 | No | No | 2.00 |
| 747 | 54.58 | 573.87 | 1.26 | 0.38 | 0.50 | 316.20 | 1.00 | 316.20 | 4.000 | No | No | 2.00 |
| 748 | 54.62 | 587.13 | 1.28 | 0.42 | 0.50 | 323.46 | 1.00 | 323.46 | 4.000 | No | No | 2.00 |
| 749 | 54.65 | 604.44 | 1.29 | 0.46 | 0.50 | 333.00 | 1.00 | 333.00 | 4.000 | No | No | 2.00 |
| 750 | 54.67 | 623.33 | 1.30 | 0.48 | 0.50 | 343.41 | 1.00 | 343.41 | 4.000 | No | No | 2.00 |
| 751 | 54.71 | 658.15 | 1.28 | 0.48 | 0.50 | 362.60 | 1.00 | 362.60 | 4.000 | No | No | 2.00 |
| 752 | 54.77 | 679.34 | 1.20 | 0.37 | 0.50 | 374.21 | 1.00 | 374.21 | 4.000 | No | No | 2.00 |
| 753 | 54.81 | 702.99 | 1.11 | 0.28 | 0.50 | 387.19 | 1.00 | 387.19 | 4.000 | No | No | 2.00 |
| 754 | 54.85 | 704.07 | 1.04 | 0.22 | 0.50 | 387.70 | 1.00 | 387.70 | 4.000 | No | No | 2.00 |
| 755 | 54.86 | 709.13 | 1.06 | 0.24 | 0.50 | 390.48 | 1.00 | 390.48 | 4.000 | No | No | 2.00 |
| 756 | 54.87 | 703.33 | 1.09 | 0.27 | 0.50 | 387.26 | 1.00 | 387.26 | 4.000 | No | No | 2.00 |
| 757 | 54.91 | 703.66 | 1.13 | 0.30 | 0.50 | 387.35 | 1.00 | 387.35 | 4.000 | No | No | 2.00 |
| 758 | 54.96 | 707.14 | 1.16 | 0.34 | 0.50 | 389.17 | 1.00 | 389.17 | 4.000 | No | No | 2.00 |
| 759 | 55.00 | 703.19 | 1.18 | 0.36 | 0.50 | 386.89 | 1.00 | 386.89 | 4.000 | No | No | 2.00 |
| 760 | 55.01 | 695.84 | 1.19 | 0.37 | 0.50 | 382.82 | 1.00 | 382.82 | 4.000 | No | No | 2.00 |
| 761 | 55.05 | 679.11 | 1.21 | 0.39 | 0.50 | 373.47 | 1.00 | 373.47 | 4.000 | No | No | 2.00 |
| 762 | 55.10 | 651.07 | 1.24 | 0.42 | 0.50 | 357.87 | 1.00 | 357.87 | 4.000 | No | No | 2.00 |
| 763 | 55.12 | 603.77 | 1.29 | 0.46 | 0.50 | 331.72 | 1.00 | 331.72 | 4.000 | No | No | 2.00 |
| 764 | 55.13 | 570.97 | 1.33 | 0.49 | 0.50 | 313.58 | 1.00 | 313.58 | 4.000 | No | No | 2.00 |
| 765 | 55.14 | 563.11 | 1.33 | 0.48 | 0.50 | 309.22 | 1.00 | 309.22 | 4.000 | No | No | 2.00 |
| 766 | 55.19 | 576.91 | 1.31 | 0.46 | 0.50 | 316.75 | 1.00 | 316.75 | 4.000 | No | No | 2.00 |
| 767 | 55.20 | 576.27 | 1.31 | 0.46 | 0.50 | 316.38 | 1.00 | 316.38 | 4.000 | No | No | 2.00 |
| 768 | 55.25 | 562.13 | 1.33 | 0.48 | 0.50 | 308.48 | 1.00 | 308.48 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 769 | 55.29 | 546.07 | 1.37 | 0.52 | 0.50 | 299.55 | 1.00 | 299.55 | 4.000 | No | No | 2.00 |
| 770 | 55.33 | 519.69 | 1.42 | 0.59 | 0.50 | 284.92 | 1.00 | 284.92 | 4.000 | No | No | 2.00 |
| 771 | 55.38 | 481.16 | 1.52 | 0.76 | 0.50 | 263.59 | 1.00 | 263.59 | 4.000 | No | No | 2.00 |
| 772 | 55.48 | 439.32 | 1.63 | 0.99 | 0.50 | 240.38 | 1.00 | 240.38 | 4.000 | No | No | 2.00 |
| 773 | 55.57 | 411.39 | 1.73 | 1.22 | 0.53 | 218.55 | 1.04 | 227.87 | 4.000 | No | No | 2.00 |
| 774 | 55.63 | 398.09 | 1.80 | 1.45 | 0.55 | 206.42 | 1.15 | 237.94 | 4.000 | No | No | 2.00 |
| 775 | 55.72 | 402.04 | 1.83 | 1.60 | 0.56 | 206.08 | 1.19 | 244.53 | 4.000 | No | No | 2.00 |
| 776 | 55.80 | 431.09 | 1.82 | 1.63 | 0.55 | 221.88 | 1.17 | 260.68 | 4.000 | No | No | 2.00 |
| 777 | 55.86 | 480.55 | 1.67 | 1.19 | 0.51 | 259.76 | 1.00 | 259.76 | 4.000 | No | No | 2.00 |
| 778 | 55.97 | 527.85 | 1.51 | 0.79 | 0.50 | 288.32 | 1.00 | 288.32 | 4.000 | No | No | 2.00 |
| 779 | 56.01 | 560.55 | 1.34 | 0.49 | 0.50 | 306.20 | 1.00 | 306.20 | 4.000 | No | No | 2.00 |
| 780 | 56.06 | 587.84 | 1.50 | 0.47 | 1.00 | 186.61 | 1.00 | 186.61 | 0.684 | No | No | 2.00 |
| 781 | 56.11 | 613.11 | 1.50 | 0.51 | 1.00 | 194.57 | 1.00 | 194.57 | 0.765 | No | No | 2.00 |
| 782 | 56.15 | 640.71 | 1.51 | 0.55 | 1.00 | 203.27 | 1.00 | 203.27 | 4.000 | No | No | 2.00 |
| 783 | 56.20 | 660.92 | 1.52 | 0.59 | 1.00 | 209.60 | 1.00 | 209.60 | 4.000 | No | No | 2.00 |
| 784 | 56.27 | 663.16 | 1.53 | 0.63 | 1.00 | 210.15 | 1.00 | 210.15 | 4.000 | No | No | 2.00 |
| 785 | 56.27 | 664.17 | 1.56 | 0.69 | 1.00 | 210.45 | 1.00 | 210.45 | 4.000 | No | No | 2.00 |
| 786 | 56.30 | 642.20 | 1.61 | 0.79 | 1.00 | 203.39 | 1.00 | 203.39 | 4.000 | No | No | 2.00 |
| 787 | 56.33 | 649.54 | 1.64 | 0.87 | 1.00 | 205.64 | 1.00 | 205.64 | 4.000 | No | No | 2.00 |
| 788 | 56.35 | 647.65 | 1.66 | 0.92 | 1.00 | 205.00 | 1.00 | 205.00 | 4.000 | No | No | 2.00 |
| 789 | 56.40 | 667.86 | 1.64 | 0.90 | 1.00 | 211.31 | 1.00 | 211.31 | 4.000 | No | No | 2.00 |
| 790 | 56.41 | 669.34 | 1.64 | 0.90 | 1.00 | 211.76 | 1.00 | 211.76 | 4.000 | No | No | 2.00 |
| 791 | 56.44 | 681.53 | 1.63 | 0.88 | 1.00 | 215.53 | 1.00 | 215.53 | 4.000 | No | No | 2.00 |
| 792 | 56.49 | 695.19 | 1.62 | 0.87 | 1.00 | 219.75 | 1.00 | 219.75 | 4.000 | No | No | 2.00 |
| 793 | 56.54 | 717.49 | 1.61 | 0.87 | 1.00 | 226.71 | 1.00 | 226.71 | 4.000 | No | No | 2.00 |
| 794 | 56.58 | 737.23 | 1.61 | 0.89 | 1.00 | 232.85 | 1.00 | 232.85 | 4.000 | No | No | 2.00 |
| 795 | 56.59 | 750.18 | 1.61 | 0.91 | 1.00 | 236.93 | 1.00 | 236.93 | 4.000 | No | No | 2.00 |
| 796 | 56.64 | 757.34 | 1.60 | 0.90 | 1.00 | 239.07 | 1.00 | 239.07 | 4.000 | No | No | 2.00 |
| 797 | 56.69 | 764.80 | 1.60 | 0.90 | 1.00 | 241.29 | 1.00 | 241.29 | 4.000 | No | No | 2.00 |
| 798 | 56.73 | 778.16 | 1.59 | 0.88 | 1.00 | 245.40 | 1.00 | 245.40 | 4.000 | No | No | 2.00 |
| 799 | 56.78 | 778.56 | 1.58 | 0.86 | 1.00 | 245.38 | 1.00 | 245.38 | 4.000 | No | No | 2.00 |
| 800 | 56.83 | 759.53 | 1.58 | 0.83 | 1.00 | 239.22 | 1.00 | 239.22 | 4.000 | No | No | 2.00 |
| 801 | 56.88 | 731.80 | 1.58 | 0.82 | 1.00 | 230.32 | 1.00 | 230.32 | 4.000 | No | No | 2.00 |
| 802 | 56.89 | 708.89 | 1.60 | 0.82 | 1.00 | 223.03 | 1.00 | 223.03 | 4.000 | No | No | 2.00 |
| 803 | 56.95 | 692.53 | 1.59 | 0.80 | 1.00 | 217.71 | 1.00 | 217.71 | 4.000 | No | No | 2.00 |
| 804 | 57.01 | 668.00 | 1.59 | 0.77 | 1.00 | 209.81 | 1.00 | 209.81 | 4.000 | No | No | 2.00 |
| 805 | 57.07 | 645.94 | 1.58 | 0.71 | 1.00 | 202.70 | 1.00 | 202.70 | 4.000 | No | No | 2.00 |
| 806 | 57.11 | 619.45 | 1.52 | 0.54 | 1.00 | 194.25 | 1.00 | 194.25 | 0.762 | No | No | 2.00 |
| 807 | 57.17 | 598.63 | 1.46 | 0.41 | 1.00 | 187.56 | 1.00 | 187.56 | 0.694 | No | No | 2.00 |
| 808 | 57.26 | 574.07 | 1.37 | 0.26 | 1.00 | 179.66 | 1.00 | 179.66 | 0.619 | No | No | 1.89 |
| 809 | 57.31 | 547.05 | 1.43 | 0.31 | 1.00 | 171.06 | 1.00 | 171.06 | 0.546 | No | No | 1.67 |
| 810 | 57.37 | 520.16 | 1.45 | 0.32 | 1.00 | 162.50 | 1.00 | 162.50 | 0.479 | No | No | 1.46 |
| 811 | 57.45 | 490.27 | 1.51 | 0.38 | 1.00 | 152.96 | 1.00 | 152.96 | 0.413 | No | No | 1.26 |
| 812 | 57.51 | 451.30 | 1.55 | 0.39 | 1.00 | 140.63 | 1.00 | 140.63 | 0.339 | No | No | 1.03 |
| 813 | 57.53 | 421.54 | 1.59 | 0.41 | 1.00 | 131.27 | 1.00 | 131.27 | 0.290 | No | No | 0.89 |
| 814 | 57.59 | 401.40 | 1.62 | 0.43 | 1.00 | 124.87 | 1.00 | 124.87 | 0.261 | No | No | 0.80 |
| 815 | 57.63 | 398.96 | 1.62 | 0.43 | 1.00 | 124.05 | 1.00 | 124.05 | 0.258 | No | No | 0.79 |
| 816 | 57.68 | 391.51 | 1.63 | 0.44 | 1.00 | 121.66 | 1.00 | 121.66 | 0.247 | No | No | 0.76 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 817 | 57.73 | 386.48 | 1.64 | 0.44 | 1.00 | 120.01 | 1.00 | 120.01 | 0.241 | No | No | 0.74 |
| 818 | 57.78 | 379.02 | 1.65 | 0.44 | 1.00 | 117.62 | 1.00 | 117.62 | 0.231 | No | No | 0.71 |
| 819 | 57.86 | 359.96 | 1.66 | 0.43 | 1.00 | 111.55 | 1.00 | 111.55 | 0.209 | No | No | 0.64 |
| 820 | 57.92 | 326.32 | 1.71 | 0.47 | 1.00 | 100.97 | 1.00 | 100.97 | 4.000 | Yes | No | 2.00 |
| 821 | 57.98 | 290.83 | 1.76 | 0.47 | 1.00 | 89.82 | 1.00 | 89.82 | 4.000 | Yes | No | 2.00 |
| 822 | 58.06 | 263.33 | 1.82 | 0.53 | 1.00 | 81.16 | 1.18 | 95.51 | 4.000 | Yes | No | 2.00 |
| 823 | 58.12 | 242.92 | 1.90 | 0.64 | 1.00 | 74.75 | 1.24 | 92.39 | 4.000 | Yes | No | 2.00 |
| 824 | 58.21 | 222.41 | 1.99 | 0.82 | 1.00 | 68.28 | 1.30 | 88.73 | 4.000 | Yes | No | 2.00 |
| 825 | 58.26 | 204.43 | 2.06 | 0.97 | 1.00 | 62.64 | 1.37 | 85.71 | 4.000 | Yes | No | 2.00 |
| 826 | 58.35 | 180.37 | 2.14 | 1.08 | 1.00 | 55.10 | 1.48 | 81.38 | 4.000 | Yes | No | 2.00 |
| 827 | 58.41 | 154.93 | 2.19 | 1.08 | 1.00 | 47.15 | 1.59 | 74.91 | 4.000 | Yes | No | 2.00 |
| 828 | 58.50 | 122.84 | 2.29 | 1.16 | 1.00 | 37.13 | 1.90 | 70.73 | 4.000 | Yes | No | 2.00 |
| 829 | 58.56 | 98.18 | 2.38 | 1.18 | 1.00 | 29.45 | 2.28 | 67.27 | 4.000 | Yes | No | 2.00 |
| 830 | 58.64 | 77.90 | 2.53 | 1.55 | 1.00 | 23.14 | 3.23 | 74.61 | 4.000 | Yes | No | 2.00 |
| 831 | 58.73 | 63.67 | 2.66 | 1.93 | 1.00 | 18.70 | 4.34 | 81.15 | 4.000 | Yes | Yes | 2.00 |
| 832 | 58.80 | 51.12 | 2.80 | 2.41 | 1.00 | 14.80 | 5.89 | 87.16 | 4.000 | Yes | Yes | 2.00 |
| 833 | 58.84 | 42.24 | 2.93 | 2.94 | 1.00 | 12.04 | 7.59 | 91.44 | 4.000 | Yes | Yes | 2.00 |
| 834 | 58.85 | 43.79 | 2.90 | 2.86 | 1.00 | 12.52 | 7.27 | 91.06 | 3.600 | No | Yes | 2.00 |
| 835 | 58.93 | 50.50 | 2.81 | 2.45 | 1.00 | 14.59 | 6.00 | 87.49 | 3.600 | No | Yes | 2.00 |
| 836 | 58.98 | 58.12 | 2.72 | 2.06 | 1.00 | 16.94 | 4.87 | 82.49 | 3.600 | No | Yes | 2.00 |
| 837 | 59.02 | 61.77 | 2.67 | 1.86 | 1.00 | 18.06 | 4.38 | 79.02 | 3.600 | No | Yes | 2.00 |
| 838 | 59.12 | 63.39 | 2.65 | 1.79 | 1.00 | 18.54 | 4.19 | 77.74 | 3.600 | No | Yes | 2.00 |
| 839 | 59.17 | 65.41 | 2.64 | 1.79 | 1.00 | 19.15 | 4.09 | 78.34 | 3.600 | No | Yes | 2.00 |
| 840 | 59.27 | 67.33 | 2.63 | 1.85 | 1.00 | 19.73 | 4.06 | 80.06 | 3.600 | No | Yes | 2.00 |
| 841 | 59.31 | 67.64 | 2.64 | 1.94 | 1.00 | 19.81 | 4.15 | 82.31 | 3.600 | No | Yes | 2.00 |
| 842 | 59.41 | 64.84 | 2.68 | 2.06 | 1.00 | 18.93 | 4.46 | 84.40 | 3.600 | No | Yes | 2.00 |
| 843 | 59.46 | 57.99 | 2.74 | 2.22 | 1.00 | 16.81 | 5.11 | 85.91 | 3.600 | No | Yes | 2.00 |
| 844 | 59.55 | 48.77 | 2.83 | 2.45 | 1.00 | 13.96 | 6.20 | 86.53 | 3.600 | No | Yes | 2.00 |
| 845 | 59.65 | 39.66 | 2.91 | 2.48 | 1.00 | 11.14 | 7.37 | 82.12 | 3.600 | No | Yes | 2.00 |
| 846 | 59.70 | 34.25 | 2.97 | 2.47 | 1.00 | 9.47 | 8.28 | 78.48 | 3.600 | No | Yes | 2.00 |
| 847 | 59.80 | 32.07 | 2.99 | 2.40 | 1.00 | 8.80 | 8.61 | 75.77 | 3.600 | No | Yes | 2.00 |
| 848 | 59.89 | 32.04 | 3.01 | 2.66 | 1.00 | 8.78 | 9.03 | 79.29 | 3.600 | No | Yes | 2.00 |
| 849 | 59.94 | 31.04 | 3.06 | 2.98 | 1.00 | 8.47 | 9.76 | 82.68 | 3.600 | No | Yes | 2.00 |
| 850 | 60.01 | 30.35 | 3.09 | 3.25 | 1.00 | 8.25 | 10.33 | 85.21 | 3.600 | No | Yes | 2.00 |
| 851 | 60.02 | 32.64 | 3.04 | 3.10 | 1.00 | 8.95 | 9.57 | 85.70 | 3.600 | No | Yes | 2.00 |
| 852 | 60.08 | 35.54 | 2.99 | 2.84 | 1.00 | 9.83 | 8.61 | 84.70 | 3.600 | No | Yes | 2.00 |
| 853 | 60.12 | 36.56 | 2.97 | 2.70 | 1.00 | 10.14 | 8.23 | 83.40 | 3.600 | No | Yes | 2.00 |
| 854 | 60.17 | 32.87 | 3.01 | 2.76 | 1.00 | 9.01 | 9.03 | 81.32 | 3.600 | No | Yes | 2.00 |
| 855 | 60.27 | 28.56 | 3.07 | 2.73 | 1.00 | 7.68 | 10.03 | 76.99 | 3.600 | No | Yes | 2.00 |
| 856 | 60.31 | 24.81 | 3.12 | 2.61 | 1.00 | 6.53 | 11.00 | 71.83 | 3.600 | No | Yes | 2.00 |
| 857 | 60.37 | 22.21 | 3.15 | 2.46 | 1.00 | 5.73 | 11.72 | 67.16 | 3.600 | No | Yes | 2.00 |
| 858 | 60.46 | 20.93 | 3.17 | 2.32 | 1.00 | 5.33 | 12.03 | 64.16 | 3.600 | No | Yes | 2.00 |
| 859 | 60.51 | 20.76 | 3.15 | 2.06 | 1.00 | 5.28 | 11.57 | 61.05 | 3.600 | No | Yes | 2.00 |
| 860 | 60.61 | 21.43 | 3.11 | 1.87 | 1.00 | 5.48 | 10.86 | 59.48 | 3.600 | No | Yes | 2.00 |
| 861 | 60.65 | 21.84 | 3.09 | 1.76 | 1.00 | 5.60 | 10.44 | 58.49 | 3.600 | No | Yes | 2.00 |
| 862 | 60.75 | 22.18 | 3.08 | 1.74 | 1.00 | 5.70 | 10.27 | 58.52 | 3.600 | No | Yes | 2.00 |
| 863 | 60.81 | 22.25 | 3.08 | 1.74 | 1.00 | 5.72 | 10.24 | 58.52 | 3.600 | No | Yes | 2.00 |
| 864 | 60.89 | 22.21 | 3.08 | 1.71 | 1.00 | 5.70 | 10.20 | 58.14 | 3.600 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 865 | 60.94 | 22.45 | 3.07 | 1.71 | 1.00 | 5.77 | 10.12 | 58.37 | 3.600 | No | Yes | 2.00 |
| 866 | 61.03 | 22.62 | 3.08 | 1.77 | 1.00 | 5.81 | 10.19 | 59.27 | 3.600 | No | Yes | 2.00 |
| 867 | 61.09 | 22.65 | 3.08 | 1.79 | 1.00 | 5.82 | 10.23 | 59.56 | 3.600 | No | Yes | 2.00 |
| 868 | 61.19 | 22.38 | 3.08 | 1.78 | 1.00 | 5.74 | 10.30 | 59.09 | 3.600 | No | Yes | 2.00 |
| 869 | 61.24 | 22.96 | 3.06 | 1.69 | 1.00 | 5.91 | 9.90 | 58.48 | 3.600 | No | Yes | 2.00 |
| 870 | 61.33 | 24.51 | 3.03 | 1.68 | 1.00 | 6.37 | 9.35 | 59.55 | 3.600 | No | Yes | 2.00 |
| 871 | 61.38 | 24.20 | 3.09 | 2.19 | 1.00 | 6.28 | 10.50 | 65.92 | 3.600 | No | Yes | 2.00 |
| 872 | 61.47 | 23.16 | 3.18 | 2.97 | 1.00 | 5.95 | 12.35 | 73.50 | 3.600 | No | Yes | 2.00 |
| 873 | 61.53 | 21.88 | 3.28 | 3.99 | 1.00 | 5.56 | 14.59 | 81.14 | 3.600 | No | Yes | 2.00 |
| 874 | 61.62 | 27.61 | 3.13 | 3.27 | 1.00 | 7.29 | 11.24 | 81.97 | 3.600 | No | Yes | 2.00 |
| 875 | 61.70 | 44.48 | 2.86 | 2.37 | 1.00 | 12.39 | 6.68 | 82.73 | 3.600 | No | Yes | 2.00 |
| 876 | 61.77 | 66.81 | 2.67 | 2.07 | 1.00 | 19.14 | 4.44 | 84.93 | 3.600 | No | Yes | 2.00 |
| 877 | 61.86 | 81.96 | 2.60 | 2.12 | 1.00 | 23.70 | 3.78 | 89.66 | 3.600 | No | Yes | 2.00 |
| 878 | 61.95 | 81.02 | 2.63 | 2.34 | 1.00 | 23.39 | 4.06 | 94.89 | 3.600 | No | Yes | 2.00 |
| 879 | 61.97 | 72.62 | 2.69 | 2.53 | 1.00 | 20.85 | 4.65 | 96.91 | 3.600 | No | Yes | 2.00 |
| 880 | 62.01 | 62.36 | 2.78 | 2.84 | 1.00 | 17.75 | 5.62 | 99.66 | 4.000 | No | Yes | 2.00 |
| 881 | 62.10 | 52.17 | 2.87 | 3.09 | 1.00 | 14.66 | 6.77 | 99.23 | 4.000 | Yes | Yes | 2.00 |
| 882 | 62.24 | 55.41 | 2.79 | 2.50 | 1.00 | 15.61 | 5.76 | 89.92 | 4.000 | Yes | Yes | 2.00 |
| 883 | 62.34 | 87.70 | 2.48 | 1.40 | 1.00 | 25.31 | 2.83 | 71.54 | 4.000 | Yes | No | 2.00 |
| 884 | 62.49 | 127.58 | 2.25 | 0.95 | 1.00 | 37.26 | 1.74 | 64.77 | 4.000 | Yes | No | 2.00 |
| 885 | 62.54 | 164.52 | 2.11 | 0.82 | 1.00 | 48.34 | 1.44 | 69.68 | 4.000 | Yes | No | 2.00 |
| 886 | 62.66 | 181.39 | 2.07 | 0.78 | 1.00 | 53.35 | 1.37 | 73.33 | 4.000 | Yes | No | 2.00 |
| 887 | 62.74 | 199.68 | 2.02 | 0.75 | 1.00 | 58.78 | 1.33 | 77.94 | 4.000 | Yes | No | 2.00 |
| 888 | 62.87 | 211.65 | 1.99 | 0.72 | 1.00 | 62.29 | 1.30 | 80.99 | 4.000 | No | No | 2.00 |
| 889 | 62.92 | 217.18 | 1.98 | 0.72 | 1.00 | 63.92 | 1.29 | 82.65 | 4.000 | No | No | 2.00 |
| 890 | 63.03 | 219.18 | 1.98 | 0.73 | 1.00 | 64.44 | 1.29 | 83.41 | 4.000 | No | No | 2.00 |
| 891 | 63.15 | 218.06 | 1.99 | 0.76 | 1.00 | 64.03 | 1.30 | 83.38 | 4.000 | No | No | 2.00 |
| 892 | 63.26 | 213.11 | 2.01 | 0.79 | 1.00 | 62.49 | 1.32 | 82.35 | 4.000 | No | No | 2.00 |
| 893 | 63.37 | 206.70 | 2.03 | 0.82 | 1.00 | 60.51 | 1.34 | 80.92 | 4.000 | No | No | 2.00 |
| 894 | 63.45 | 200.15 | 2.04 | 0.79 | 1.00 | 58.51 | 1.34 | 78.49 | 4.000 | No | No | 2.00 |
| 895 | 63.54 | 197.59 | 2.02 | 0.71 | 1.00 | 57.70 | 1.32 | 76.31 | 4.000 | No | No | 2.00 |
| 896 | 63.61 | 190.30 | 2.02 | 0.68 | 1.00 | 55.49 | 1.33 | 73.61 | 4.000 | Yes | No | 2.00 |
| 897 | 63.69 | 172.04 | 2.08 | 0.74 | 1.00 | 50.02 | 1.39 | 69.47 | 4.000 | Yes | No | 2.00 |
| 898 | 63.79 | 141.71 | 2.22 | 0.97 | 1.00 | 40.98 | 1.65 | 67.77 | 4.000 | Yes | No | 2.00 |
| 899 | 63.89 | 106.15 | 2.36 | 1.15 | 1.00 | 30.39 | 2.20 | 66.74 | 4.000 | Yes | No | 2.00 |
| 900 | 63.98 | 75.22 | 2.55 | 1.47 | 1.00 | 21.20 | 3.37 | 71.48 | 4.000 | Yes | No | 2.00 |
| 901 | 64.07 | 53.15 | 2.72 | 1.67 | 1.00 | 14.65 | 4.91 | 71.91 | 4.000 | Yes | Yes | 2.00 |
| 902 | 64.15 | 39.12 | 2.91 | 2.21 | 1.00 | 10.48 | 7.30 | 76.48 | 4.000 | Yes | Yes | 2.00 |
| 903 | 64.23 | 29.98 | 3.07 | 2.76 | 1.00 | 7.77 | 10.00 | 77.68 | 4.000 | No | Yes | 2.00 |
| 904 | 64.26 | 25.15 | 3.18 | 3.28 | 1.00 | 6.34 | 12.34 | 78.26 | 4.000 | No | Yes | 2.00 |
| 905 | 64.29 | 23.57 | 3.22 | 3.48 | 1.00 | 5.87 | 13.31 | 78.14 | 4.000 | No | Yes | 2.00 |
| 906 | 64.33 | 23.37 | 3.21 | 3.17 | 1.00 | 5.81 | 12.89 | 74.86 | 4.000 | No | Yes | 2.00 |
| 907 | 64.43 | 22.99 | 3.19 | 2.81 | 1.00 | 5.69 | 12.43 | 70.78 | 4.000 | No | Yes | 2.00 |
| 908 | 64.47 | 22.29 | 3.17 | 2.45 | 1.00 | 5.48 | 12.05 | 66.07 | 4.000 | No | Yes | 2.00 |
| 909 | 64.53 | 21.82 | 3.17 | 2.32 | 1.00 | 5.34 | 12.01 | 64.15 | 4.000 | No | Yes | 2.00 |
| 910 | 64.62 | 20.60 | 3.20 | 2.39 | 1.00 | 4.98 | 12.74 | 63.40 | 4.000 | No | Yes | 2.00 |
| 911 | 64.72 | 19.12 | 3.25 | 2.57 | 1.00 | 4.53 | 13.95 | 63.23 | 4.000 | No | Yes | 2.00 |
| 912 | 64.78 | 18.00 | 3.30 | 2.81 | 1.00 | 4.20 | 15.17 | 63.74 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 913 | 64.86 | 18.21 | 3.30 | 2.92 | 1.00 | 4.26 | 15.26 | 65.01 | 4.000 | No | Yes | 2.00 |
| 914 | 64.96 | 18.78 | 3.31 | 3.20 | 1.00 | 4.42 | 15.44 | 68.31 | 4.000 | No | Yes | 2.00 |
| 915 | 65.06 | 19.22 | 3.32 | 3.52 | 1.00 | 4.55 | 15.74 | 71.61 | 4.000 | No | Yes | 2.00 |
| 916 | 65.11 | 19.22 | 3.34 | 3.90 | 1.00 | 4.55 | 16.41 | 74.58 | 4.000 | No | Yes | 2.00 |
| 917 | 65.21 | 18.85 | 3.37 | 4.16 | 1.00 | 4.43 | 17.13 | 75.90 | 4.000 | No | Yes | 2.00 |
| 918 | 65.31 | 18.45 | 3.39 | 4.32 | 1.00 | 4.31 | 17.70 | 76.26 | 4.000 | No | Yes | 2.00 |
| 919 | 65.40 | 18.28 | 3.37 | 3.90 | 1.00 | 4.25 | 17.10 | 72.77 | 4.000 | No | Yes | 2.00 |
| 920 | 65.50 | 18.58 | 3.32 | 3.22 | 1.00 | 4.34 | 15.67 | 67.97 | 4.000 | No | Yes | 2.00 |
| 921 | 65.58 | 19.02 | 3.26 | 2.59 | 1.00 | 4.46 | 14.15 | 63.13 | 4.000 | No | Yes | 2.00 |
| 922 | 65.68 | 19.05 | 3.24 | 2.38 | 1.00 | 4.47 | 13.69 | 61.17 | 4.000 | No | Yes | 2.00 |
| 923 | 65.78 | 17.67 | 3.29 | 2.52 | 1.00 | 4.06 | 14.89 | 60.45 | 4.000 | No | Yes | 2.00 |
| 924 | 65.84 | 16.40 | 3.34 | 2.66 | 1.00 | 3.69 | 16.19 | 59.69 | 4.000 | No | Yes | 2.00 |
| 925 | 65.86 | 15.56 | 3.38 | 2.83 | 1.00 | 3.44 | 17.33 | 59.62 | 4.000 | No | Yes | 2.00 |
| 926 | 65.87 | 16.51 | 3.33 | 2.60 | 1.00 | 3.72 | 15.97 | 59.36 | 4.000 | No | Yes | 2.00 |
| 927 | 65.98 | 17.26 | 3.29 | 2.44 | 1.00 | 3.93 | 15.03 | 59.09 | 4.000 | No | Yes | 2.00 |
| 928 | 66.10 | 17.84 | 3.28 | 2.46 | 1.00 | 4.09 | 14.69 | 60.13 | 4.000 | No | Yes | 2.00 |
| 929 | 66.21 | 18.21 | 3.29 | 2.65 | 1.00 | 4.20 | 14.85 | 62.32 | 4.000 | No | Yes | 2.00 |
| 930 | 66.34 | 18.48 | 3.28 | 2.68 | 1.00 | 4.27 | 14.76 | 63.01 | 4.000 | No | Yes | 2.00 |
| 931 | 66.48 | 19.00 | 3.27 | 2.66 | 1.00 | 4.42 | 14.39 | 63.55 | 4.000 | No | Yes | 2.00 |
| 932 | 66.62 | 18.46 | 3.28 | 2.63 | 1.00 | 4.25 | 14.69 | 62.45 | 4.000 | No | Yes | 2.00 |
| 933 | 66.68 | 18.67 | 3.29 | 2.78 | 1.00 | 4.31 | 14.87 | 64.07 | 4.000 | No | Yes | 2.00 |
| 934 | 66.87 | 18.92 | 3.31 | 3.19 | 1.00 | 4.37 | 15.53 | 67.94 | 4.000 | No | Yes | 2.00 |
| 935 | 66.96 | 19.16 | 3.35 | 3.89 | 1.00 | 4.44 | 16.65 | 73.89 | 4.000 | No | Yes | 2.00 |
| 936 | 67.11 | 18.25 | 3.42 | 4.74 | 1.00 | 4.17 | 18.76 | 78.15 | 4.000 | No | Yes | 2.00 |
| 937 | 67.21 | 16.83 | 3.47 | 4.99 | 1.00 | 3.75 | 20.42 | 76.60 | 4.000 | No | Yes | 2.00 |
| 938 | 67.35 | 16.22 | 3.48 | 4.67 | 1.00 | 3.57 | 20.50 | 73.18 | 4.000 | No | Yes | 2.00 |
| 939 | 67.45 | 16.16 | 3.52 | 5.49 | 1.00 | 3.55 | 21.95 | 77.86 | 4.000 | No | Yes | 2.00 |
| 940 | 67.59 | 27.42 | 3.21 | 4.13 | 1.00 | 6.79 | 13.06 | 88.71 | 4.000 | No | Yes | 2.00 |
| 941 | 67.68 | 77.39 | 2.62 | 1.95 | 1.00 | 21.19 | 3.95 | 83.67 | 4.000 | Yes | Yes | 2.00 |
| 942 | 67.83 | 159.77 | 2.22 | 1.13 | 1.00 | 44.89 | 1.66 | 74.68 | 4.000 | Yes | No | 2.00 |
| 943 | 67.92 | 241.25 | 1.99 | 0.82 | 1.00 | 68.29 | 1.30 | 88.64 | 4.000 | Yes | No | 2.00 |
| 944 | 68.02 | 283.19 | 1.90 | 0.72 | 1.00 | 80.28 | 1.24 | 99.35 | 4.000 | Yes | No | 2.00 |
| 945 | 68.07 | 299.01 | 1.88 | 0.72 | 1.00 | 84.78 | 1.22 | 103.71 | 4.000 | Yes | No | 2.00 |
| 946 | 68.16 | 305.70 | 1.87 | 0.71 | 1.00 | 86.62 | 1.22 | 105.26 | 4.000 | No | No | 2.00 |
| 947 | 68.26 | 310.93 | 1.86 | 0.70 | 1.00 | 88.04 | 1.21 | 106.54 | 4.000 | No | No | 2.00 |
| 948 | 68.35 | 307.75 | 1.88 | 0.74 | 1.00 | 87.05 | 1.22 | 106.44 | 4.000 | No | No | 2.00 |
| 949 | 68.45 | 299.96 | 1.91 | 0.81 | 1.00 | 84.74 | 1.24 | 105.37 | 4.000 | No | No | 2.00 |
| 950 | 68.55 | 291.49 | 1.94 | 0.86 | 1.00 | 82.23 | 1.26 | 103.72 | 4.000 | No | No | 2.00 |
| 951 | 68.65 | 271.72 | 1.98 | 0.91 | 1.00 | 76.50 | 1.29 | 98.57 | 4.000 | No | No | 2.00 |
| 952 | 68.78 | 253.59 | 2.02 | 0.98 | 1.00 | 71.23 | 1.32 | 94.35 | 4.000 | No | No | 2.00 |
| 953 | 68.78 | 238.18 | 2.05 | 1.03 | 1.00 | 66.83 | 1.36 | 90.91 | 4.000 | No | No | 2.00 |
| 954 | 68.79 | 234.24 | 2.06 | 1.02 | 1.00 | 65.70 | 1.37 | 89.70 | 4.000 | No | No | 2.00 |
| 955 | 68.83 | 237.70 | 2.03 | 0.94 | 1.00 | 66.66 | 1.34 | 89.08 | 4.000 | No | No | 2.00 |
| 956 | 68.93 | 243.69 | 1.99 | 0.81 | 1.00 | 68.30 | 1.30 | 88.59 | 4.000 | No | No | 2.00 |
| 957 | 68.98 | 253.54 | 1.93 | 0.67 | 1.00 | 71.08 | 1.25 | 89.18 | 4.000 | No | No | 2.00 |
| 958 | 69.04 | 257.79 | 1.89 | 0.60 | 1.00 | 72.25 | 1.23 | 89.05 | 4.000 | No | No | 2.00 |
| 959 | 69.12 | 259.28 | 1.89 | 0.58 | 1.00 | 72.61 | 1.23 | 89.10 | 4.000 | No | No | 2.00 |
| 960 | 69.22 | 255.36 | 1.90 | 0.59 | 1.00 | 71.43 | 1.24 | 88.23 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 961 | 69.28 | 247.73 | 1.91 | 0.61 | 1.00 | 69.22 | 1.25 | 86.25 | 4.000 | No | No | 2.00 |
| 962 | 69.36 | 237.41 | 1.93 | 0.61 | 1.00 | 66.24 | 1.26 | 83.22 | 4.000 | No | No | 2.00 |
| 963 | 69.45 | 223.58 | 1.95 | 0.61 | 1.00 | 62.26 | 1.27 | 79.21 | 4.000 | No | No | 2.00 |
| 964 | 69.60 | 210.12 | 1.98 | 0.61 | 1.00 | 58.37 | 1.29 | 75.34 | 4.000 | No | No | 2.00 |
| 965 | 69.70 | 198.18 | 2.01 | 0.62 | 1.00 | 54.94 | 1.31 | 72.05 | 4.000 | No | No | 2.00 |
| 966 | 69.80 | 193.42 | 2.01 | 0.62 | 1.00 | 53.54 | 1.32 | 70.68 | 4.000 | No | No | 2.00 |
| 967 | 69.89 | 192.07 | 2.02 | 0.62 | 1.00 | 53.12 | 1.32 | 70.30 | 4.000 | No | No | 2.00 |
| 968 | 69.98 | 190.15 | 2.02 | 0.63 | 1.00 | 52.53 | 1.33 | 69.82 | 4.000 | No | No | 2.00 |
| 969 | 70.08 | 181.88 | 2.04 | 0.63 | 1.00 | 50.15 | 1.35 | 67.53 | 4.000 | Yes | No | 2.00 |
| 970 | 70.18 | 159.82 | 2.12 | 0.71 | 1.00 | 43.89 | 1.45 | 63.51 | 4.000 | Yes | No | 2.00 |
| 971 | 70.32 | 124.32 | 2.27 | 0.89 | 1.00 | 33.85 | 1.81 | 61.16 | 4.000 | Yes | No | 2.00 |
| 972 | 70.42 | 84.31 | 2.50 | 1.27 | 1.00 | 22.56 | 2.96 | 66.77 | 4.000 | Yes | No | 2.00 |
| 973 | 70.54 | 51.82 | 2.77 | 1.84 | 1.00 | 13.41 | 5.53 | 74.19 | 4.000 | Yes | Yes | 2.00 |
| 974 | 70.66 | 31.85 | 3.05 | 2.58 | 1.00 | 7.79 | 9.69 | 75.54 | 4.000 | No | Yes | 2.00 |
| 975 | 70.75 | 23.52 | 3.23 | 3.11 | 1.00 | 5.45 | 13.34 | 72.70 | 4.000 | No | Yes | 2.00 |
| 976 | 70.80 | 21.80 | 3.23 | 2.72 | 1.00 | 4.97 | 13.43 | 66.71 | 4.000 | No | Yes | 2.00 |
| 977 | 70.89 | 22.64 | 3.14 | 1.98 | 1.00 | 5.20 | 11.52 | 59.87 | 4.000 | No | Yes | 2.00 |
| 978 | 70.99 | 22.34 | 3.09 | 1.45 | 1.00 | 5.11 | 10.38 | 53.00 | 4.000 | No | Yes | 2.00 |
| 979 | 71.08 | 21.63 | 3.07 | 1.23 | 1.00 | 4.90 | 10.09 | 49.46 | 4.000 | No | Yes | 2.00 |
| 980 | 71.17 | 21.43 | 3.06 | 1.12 | 1.00 | 4.84 | 9.87 | 47.79 | 4.000 | No | Yes | 2.00 |
| 981 | 71.23 | 20.92 | 3.07 | 1.10 | 1.00 | 4.70 | 10.01 | 47.05 | 4.000 | No | Yes | 2.00 |
| 982 | 71.33 | 21.09 | 3.05 | 1.03 | 1.00 | 4.74 | 9.74 | 46.20 | 4.000 | No | Yes | 2.00 |
| 983 | 71.42 | 21.73 | 3.02 | 0.90 | 1.00 | 4.92 | 9.08 | 44.64 | 4.000 | No | Yes | 2.00 |
| 984 | 71.52 | 22.81 | 2.97 | 0.78 | 1.00 | 5.22 | 8.26 | 43.06 | 4.000 | No | Yes | 2.00 |
| 985 | 71.58 | 23.21 | 2.97 | 0.82 | 1.00 | 5.33 | 8.27 | 44.01 | 4.000 | No | Yes | 2.00 |
| 986 | 71.67 | 22.88 | 3.02 | 1.04 | 1.00 | 5.23 | 9.07 | 47.43 | 4.000 | No | Yes | 2.00 |
| 987 | 71.81 | 22.47 | 3.06 | 1.28 | 1.00 | 5.11 | 9.94 | 50.76 | 4.000 | No | Yes | 2.00 |
| 988 | 71.82 | 22.24 | 3.09 | 1.43 | 1.00 | 5.04 | 10.42 | 52.55 | 4.000 | No | Yes | 2.00 |
| 989 | 71.86 | 21.97 | 3.10 | 1.47 | 1.00 | 4.96 | 10.64 | 52.82 | 4.000 | No | Yes | 2.00 |
| 990 | 71.91 | 21.83 | 3.11 | 1.49 | 1.00 | 4.92 | 10.75 | 52.95 | 4.000 | No | Yes | 2.00 |
| 991 | 71.97 | 21.60 | 3.12 | 1.53 | 1.00 | 4.86 | 10.97 | 53.27 | 4.000 | No | Yes | 2.00 |
| 992 | 72.05 | 21.36 | 3.13 | 1.58 | 1.00 | 4.79 | 11.22 | 53.72 | 4.000 | No | Yes | 2.00 |
| 993 | 72.10 | 21.13 | 3.14 | 1.65 | 1.00 | 4.72 | 11.52 | 54.35 | 4.000 | No | Yes | 2.00 |
| 994 | 72.20 | 20.99 | 3.15 | 1.70 | 1.00 | 4.68 | 11.71 | 54.79 | 4.000 | No | Yes | 2.00 |
| 995 | 72.25 | 20.99 | 3.16 | 1.76 | 1.00 | 4.67 | 11.87 | 55.49 | 4.000 | No | Yes | 2.00 |
| 996 | 72.34 | 21.09 | 3.17 | 1.88 | 1.00 | 4.70 | 12.12 | 56.94 | 4.000 | No | Yes | 2.00 |
| 997 | 72.44 | 21.09 | 3.19 | 2.06 | 1.00 | 4.69 | 12.53 | 58.80 | 4.000 | No | Yes | 2.00 |
| 998 | 72.53 | 20.89 | 3.21 | 2.23 | 1.00 | 4.63 | 13.04 | 60.40 | 4.000 | No | Yes | 2.00 |
| 999 | 72.63 | 20.79 | 3.22 | 2.32 | 1.00 | 4.60 | 13.29 | 61.13 | 4.000 | No | Yes | 2.00 |
| 1000 | 72.69 | 20.48 | 3.23 | 2.36 | 1.00 | 4.51 | 13.55 | 61.14 | 4.000 | No | Yes | 2.00 |
| 1001 | 72.82 | 20.69 | 3.23 | 2.31 | 1.00 | 4.56 | 13.34 | 60.87 | 4.000 | No | Yes | 2.00 |
| 1002 | 72.92 | 21.13 | 3.20 | 2.18 | 1.00 | 4.68 | 12.83 | 60.05 | 4.000 | No | Yes | 2.00 |
| 1003 | 73.06 | 22.11 | 3.17 | 2.01 | 1.00 | 4.95 | 11.98 | 59.27 | 4.000 | No | Yes | 2.00 |
| 1004 | 73.16 | 22.34 | 3.16 | 2.02 | 1.00 | 5.01 | 11.90 | 59.57 | 4.000 | No | Yes | 2.00 |
| 1005 | 73.30 | 20.86 | 3.22 | 2.28 | 1.00 | 4.59 | 13.21 | 60.65 | 4.000 | No | Yes | 2.00 |
| 1006 | 73.35 | 19.88 | 3.26 | 2.50 | 1.00 | 4.32 | 14.25 | 61.53 | 4.000 | No | Yes | 2.00 |
| 1007 | 73.38 | 19.20 | 3.29 | 2.56 | 1.00 | 4.13 | 14.83 | 61.23 | 4.000 | No | Yes | 2.00 |
| 1008 | 73.47 | 20.02 | 3.25 | 2.39 | 1.00 | 4.35 | 13.95 | 60.67 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1009 | 73.53 | 20.08 | 3.24 | 2.33 | 1.00 | 4.37 | 13.79 | 60.20 | 4.000 | No | Yes | 2.00 |
| 1010 | 73.62 | 20.18 | 3.24 | 2.30 | 1.00 | 4.39 | 13.66 | 59.95 | 4.000 | No | Yes | 2.00 |
| 1011 | 73.71 | 19.95 | 3.25 | 2.36 | 1.00 | 4.32 | 13.95 | 60.28 | 4.000 | No | Yes | 2.00 |
| 1012 | 73.77 | 19.61 | 3.28 | 2.54 | 1.00 | 4.23 | 14.55 | 61.46 | 4.000 | No | Yes | 2.00 |
| 1013 | 73.86 | 19.34 | 3.30 | 2.76 | 1.00 | 4.15 | 15.21 | 63.08 | 4.000 | No | Yes | 2.00 |
| 1014 | 73.96 | 19.38 | 3.31 | 2.94 | 1.00 | 4.15 | 15.56 | 64.61 | 4.000 | No | Yes | 2.00 |
| 1015 | 74.06 | 19.58 | 3.32 | 3.02 | 1.00 | 4.20 | 15.60 | 65.59 | 4.000 | No | Yes | 2.00 |
| 1016 | 74.13 | 20.02 | 3.31 | 3.02 | 1.00 | 4.32 | 15.32 | 66.22 | 4.000 | No | Yes | 2.00 |
| 1017 | 74.24 | 20.36 | 3.30 | 3.02 | 1.00 | 4.41 | 15.12 | 66.66 | 4.000 | No | Yes | 2.00 |
| 1018 | 74.34 | 20.56 | 3.30 | 3.06 | 1.00 | 4.46 | 15.08 | 67.26 | 4.000 | No | Yes | 2.00 |
| 1019 | 74.44 | 20.42 | 3.31 | 3.15 | 1.00 | 4.42 | 15.35 | 67.81 | 4.000 | No | Yes | 2.00 |
| 1020 | 74.58 | 20.37 | 3.30 | 3.10 | 1.00 | 4.40 | 15.30 | 67.28 | 4.000 | No | Yes | 2.00 |
| 1021 | 74.68 | 20.30 | 3.27 | 2.60 | 1.00 | 4.38 | 14.35 | 62.80 | 4.000 | No | Yes | 2.00 |
| 1022 | 74.80 | 20.47 | 3.22 | 2.16 | 1.00 | 4.42 | 13.30 | 58.74 | 4.000 | No | Yes | 2.00 |
| 1023 | 74.92 | 20.26 | 3.21 | 1.96 | 1.00 | 4.35 | 12.97 | 56.43 | 4.000 | No | Yes | 2.00 |
| 1024 | 75.07 | 20.06 | 3.24 | 2.18 | 1.00 | 4.29 | 13.60 | 58.35 | 4.000 | No | Yes | 2.00 |
| 1025 | 75.08 | 19.75 | 3.26 | 2.32 | 1.00 | 4.21 | 14.10 | 59.34 | 4.000 | No | Yes | 2.00 |
| 1026 | 75.11 | 19.62 | 3.26 | 2.36 | 1.00 | 4.17 | 14.28 | 59.53 | 4.000 | No | Yes | 2.00 |
| 1027 | 75.16 | 19.55 | 3.27 | 2.45 | 1.00 | 4.15 | 14.53 | 60.28 | 4.000 | No | Yes | 2.00 |
| 1028 | 75.25 | 19.31 | 3.30 | 2.65 | 1.00 | 4.08 | 15.14 | 61.74 | 4.000 | No | Yes | 2.00 |
| 1029 | 75.32 | 19.14 | 3.32 | 2.86 | 1.00 | 4.03 | 15.69 | 63.23 | 4.000 | No | Yes | 2.00 |
| 1030 | 75.40 | 18.98 | 3.33 | 2.95 | 1.00 | 3.98 | 16.00 | 63.73 | 4.000 | No | Yes | 2.00 |
| 1031 | 75.50 | 18.81 | 3.33 | 2.87 | 1.00 | 3.93 | 15.96 | 62.77 | 4.000 | No | Yes | 2.00 |
| 1032 | 75.59 | 18.30 | 3.33 | 2.72 | 1.00 | 3.79 | 16.02 | 60.75 | 4.000 | No | Yes | 2.00 |
| 1033 | 75.69 | 17.56 | 3.34 | 2.60 | 1.00 | 3.59 | 16.34 | 58.60 | 4.000 | No | Yes | 2.00 |
| 1034 | 75.78 | 16.85 | 3.35 | 2.48 | 1.00 | 3.39 | 16.66 | 56.46 | 4.000 | No | Yes | 2.00 |
| 1035 | 75.88 | 16.41 | 3.36 | 2.34 | 1.00 | 3.27 | 16.73 | 54.66 | 4.000 | No | Yes | 2.00 |
| 1036 | 75.96 | 16.11 | 3.35 | 2.19 | 1.00 | 3.18 | 16.62 | 52.90 | 4.000 | No | Yes | 2.00 |
| 1037 | 76.05 | 16.04 | 3.34 | 2.06 | 1.00 | 3.16 | 16.34 | 51.65 | 4.000 | No | Yes | 2.00 |
| 1038 | 76.14 | 15.97 | 3.34 | 1.99 | 1.00 | 3.14 | 16.25 | 51.00 | 4.000 | No | Yes | 2.00 |
| 1039 | 76.26 | 16.07 | 3.34 | 1.99 | 1.00 | 3.16 | 16.16 | 51.09 | 4.000 | No | Yes | 2.00 |
| 1040 | 76.36 | 16.07 | 3.34 | 2.03 | 1.00 | 3.16 | 16.26 | 51.38 | 4.000 | No | Yes | 2.00 |
| 1041 | 76.41 | 16.07 | 3.34 | 2.04 | 1.00 | 3.16 | 16.31 | 51.50 | 4.000 | No | Yes | 2.00 |
| 1042 | 76.51 | 15.84 | 3.35 | 2.05 | 1.00 | 3.09 | 16.56 | 51.17 | 4.000 | No | Yes | 2.00 |
| 1043 | 76.65 | 15.50 | 3.37 | 2.09 | 1.00 | 2.99 | 17.04 | 51.04 | 4.000 | No | Yes | 2.00 |
| 1044 | 76.72 | 15.26 | 3.38 | 2.15 | 1.00 | 2.93 | 17.45 | 51.12 | 4.000 | No | Yes | 2.00 |
| 1045 | 76.79 | 15.16 | 3.39 | 2.21 | 1.00 | 2.90 | 17.72 | 51.39 | 4.000 | No | Yes | 2.00 |
| 1046 | 76.89 | 15.23 | 3.41 | 2.47 | 1.00 | 2.91 | 18.36 | 53.53 | 4.000 | No | Yes | 2.00 |
| 1047 | 76.98 | 15.47 | 3.48 | 3.62 | 1.00 | 2.98 | 20.80 | 61.89 | 4.000 | No | Yes | 2.00 |
| 1048 | 77.08 | 18.00 | 3.43 | 4.02 | 1.00 | 3.65 | 19.05 | 69.60 | 4.000 | No | Yes | 2.00 |
| 1049 | 77.18 | 22.18 | 3.34 | 4.06 | 1.00 | 4.77 | 16.19 | 77.29 | 4.000 | No | Yes | 2.00 |
| 1050 | 77.28 | 26.73 | 3.26 | 4.08 | 1.00 | 5.99 | 14.06 | 84.26 | 4.000 | No | Yes | 2.00 |
| 1051 | 77.37 | 27.88 | 3.29 | 4.98 | 1.00 | 6.30 | 14.87 | 93.62 | 4.000 | No | Yes | 2.00 |
| 1052 | 77.42 | 28.76 | 3.31 | 5.68 | 1.00 | 6.53 | 15.41 | 100.64 | 4.000 | No | Yes | 2.00 |
| 1053 | 77.42 | 30.22 | 3.30 | 5.86 | 1.00 | 6.92 | 15.09 | 104.44 | 4.000 | No | Yes | 2.00 |
| 1054 | 77.44 | 34.00 | 3.23 | 5.50 | 1.00 | 7.94 | 13.49 | 107.05 | 4.000 | No | Yes | 2.00 |
| 1055 | 77.48 | 37.40 | 3.19 | 5.36 | 1.00 | 8.85 | 12.47 | 110.31 | 4.000 | No | Yes | 2.00 |
| 1056 | 77.52 | 40.61 | 3.15 | 5.24 | 1.00 | 9.70 | 11.65 | 113.00 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1057 | 77.54 | 42.94 | 3.12 | 5.12 | 1.00 | 10.33 | 11.08 | 114.44 | 4.000 | No | Yes | 2.00 |
| 1058 | 77.57 | 43.37 | 3.12 | 5.18 | 1.00 | 10.44 | 11.07 | 115.54 | 4.000 | No | Yes | 2.00 |
| 1059 | 77.62 | 42.26 | 3.14 | 5.33 | 1.00 | 10.14 | 11.44 | 115.93 | 4.000 | No | Yes | 2.00 |
| 1060 | 77.65 | 40.10 | 3.17 | 5.56 | 1.00 | 9.55 | 12.10 | 115.64 | 4.000 | No | Yes | 2.00 |
| 1061 | 77.67 | 38.72 | 3.18 | 5.50 | 1.00 | 9.18 | 12.34 | 113.32 | 4.000 | No | Yes | 2.00 |
| 1062 | 77.71 | 37.91 | 3.19 | 5.40 | 1.00 | 8.96 | 12.41 | 111.24 | 4.000 | No | Yes | 2.00 |
| 1063 | 77.71 | 37.03 | 3.18 | 5.16 | 1.00 | 8.73 | 12.35 | 107.78 | 4.000 | No | Yes | 2.00 |
| 1064 | 77.76 | 34.77 | 3.20 | 5.10 | 1.00 | 8.12 | 12.85 | 104.25 | 4.000 | No | Yes | 2.00 |
| 1065 | 77.81 | 31.76 | 3.23 | 4.96 | 1.00 | 7.31 | 13.53 | 98.88 | 4.000 | No | Yes | 2.00 |
| 1066 | 77.90 | 29.03 | 3.27 | 4.92 | 1.00 | 6.57 | 14.40 | 94.60 | 4.000 | No | Yes | 2.00 |
| 1067 | 77.95 | 27.32 | 3.30 | 4.97 | 1.00 | 6.11 | 15.14 | 92.44 | 4.000 | No | Yes | 2.00 |
| 1068 | 78.01 | 26.34 | 3.32 | 5.03 | 1.00 | 5.84 | 15.63 | 91.29 | 4.000 | No | Yes | 2.00 |
| 1069 | 78.10 | 27.59 | 3.27 | 4.56 | 1.00 | 6.17 | 14.49 | 89.37 | 4.000 | No | Yes | 2.00 |
| 1070 | 78.16 | 36.29 | 3.07 | 3.14 | 1.00 | 8.49 | 9.98 | 84.71 | 4.000 | No | Yes | 2.00 |
| 1071 | 78.24 | 48.94 | 2.86 | 2.21 | 1.00 | 11.86 | 6.66 | 79.05 | 4.000 | Yes | Yes | 2.00 |
| 1072 | 78.29 | 64.83 | 2.68 | 1.67 | 1.00 | 16.10 | 4.54 | 73.14 | 4.000 | Yes | Yes | 2.00 |
| 1073 | 78.39 | 77.42 | 2.58 | 1.42 | 1.00 | 19.44 | 3.56 | 69.27 | 4.000 | Yes | No | 2.00 |
| 1074 | 78.47 | 87.30 | 2.52 | 1.35 | 1.00 | 22.06 | 3.11 | 68.51 | 4.000 | Yes | No | 2.00 |
| 1075 | 78.53 | 92.74 | 2.51 | 1.44 | 1.00 | 23.49 | 3.05 | 71.72 | 4.000 | Yes | No | 2.00 |
| 1076 | 78.62 | 94.25 | 2.54 | 1.65 | 1.00 | 23.88 | 3.25 | 77.71 | 4.000 | Yes | No | 2.00 |
| 1077 | 78.68 | 91.22 | 2.59 | 1.91 | 1.00 | 23.06 | 3.64 | 84.02 | 4.000 | Yes | No | 2.00 |
| 1078 | 78.69 | 92.97 | 2.61 | 2.12 | 1.00 | 23.52 | 3.81 | 89.57 | 4.000 | Yes | Yes | 2.00 |
| 1079 | 78.78 | 93.95 | 2.63 | 2.33 | 1.00 | 23.76 | 4.00 | 95.10 | 4.000 | No | Yes | 2.00 |
| 1080 | 78.81 | 94.86 | 2.65 | 2.61 | 1.00 | 24.00 | 4.25 | 102.04 | 4.000 | No | Yes | 2.00 |
| 1081 | 78.92 | 85.28 | 2.73 | 2.97 | 1.00 | 21.43 | 5.01 | 107.35 | 4.000 | No | Yes | 2.00 |
| 1082 | 79.03 | 72.83 | 2.81 | 3.21 | 1.00 | 18.11 | 5.93 | 107.43 | 4.000 | No | Yes | 2.00 |
| 1083 | 79.16 | 68.41 | 2.80 | 2.88 | 1.00 | 16.91 | 5.87 | 99.26 | 4.000 | Yes | Yes | 2.00 |
| 1084 | 79.26 | 78.39 | 2.68 | 2.21 | 1.00 | 19.54 | 4.53 | 88.45 | 4.000 | Yes | Yes | 2.00 |
| 1085 | 79.35 | 97.35 | 2.56 | 1.87 | 1.00 | 24.54 | 3.42 | 83.92 | 4.000 | Yes | No | 2.00 |
| 1086 | 79.45 | 114.43 | 2.50 | 1.84 | 1.00 | 29.03 | 2.95 | 85.78 | 4.000 | Yes | No | 2.00 |
| 1087 | 79.54 | 124.25 | 2.48 | 1.92 | 1.00 | 31.60 | 2.84 | 89.58 | 4.000 | No | No | 2.00 |
| 1088 | 79.64 | 131.23 | 2.47 | 1.97 | 1.00 | 33.41 | 2.75 | 91.91 | 4.000 | No | No | 2.00 |
| 1089 | 79.74 | 153.43 | 2.40 | 1.91 | 1.00 | 39.23 | 2.39 | 93.85 | 4.000 | No | No | 2.00 |
| 1090 | 79.88 | 186.93 | 2.31 | 1.77 | 1.00 | 48.00 | 1.98 | 94.86 | 4.000 | No | No | 2.00 |
| 1091 | 79.98 | 228.94 | 2.20 | 1.52 | 1.00 | 59.00 | 1.62 | 95.73 | 4.000 | No | No | 2.00 |
| 1092 | 80.12 | 248.77 | 2.14 | 1.34 | 1.00 | 64.13 | 1.48 | 95.14 | 4.000 | No | No | 2.00 |
| 1093 | 80.22 | 253.19 | 2.09 | 1.12 | 1.00 | 65.23 | 1.40 | 91.22 | 4.000 | No | No | 2.00 |
| 1094 | 80.36 | 244.79 | 2.06 | 0.97 | 1.00 | 62.94 | 1.37 | 86.07 | 4.000 | No | No | 2.00 |
| 1095 | 80.46 | 238.82 | 2.02 | 0.78 | 1.00 | 61.33 | 1.32 | 81.11 | 4.000 | No | No | 2.00 |
| 1096 | 80.60 | 231.84 | 1.99 | 0.66 | 1.00 | 59.42 | 1.30 | 77.21 | 4.000 | No | No | 2.00 |
| 1097 | 80.70 | 223.91 | 1.99 | 0.62 | 1.00 | 57.30 | 1.30 | 74.37 | 4.000 | No | No | 2.00 |
| 1098 | 80.83 | 213.12 | 2.02 | 0.65 | 1.00 | 54.42 | 1.32 | 72.04 | 4.000 | Yes | No | 2.00 |
| 1099 | 80.94 | 194.49 | 2.09 | 0.77 | 1.00 | 49.51 | 1.41 | 69.62 | 4.000 | Yes | No | 2.00 |
| 1100 | 81.01 | 177.96 | 2.15 | 0.85 | 1.00 | 45.17 | 1.50 | 67.91 | 4.000 | Yes | No | 2.00 |
| 1101 | 81.04 | 164.23 | 2.19 | 0.91 | 1.00 | 41.58 | 1.60 | 66.50 | 4.000 | Yes | No | 2.00 |
| 1102 | 81.09 | 158.43 | 2.21 | 0.93 | 1.00 | 40.05 | 1.65 | 65.97 | 4.000 | Yes | No | 2.00 |
| 1103 | 81.13 | 149.59 | 2.25 | 0.99 | 1.00 | 37.74 | 1.75 | 66.04 | 4.000 | Yes | No | 2.00 |
| 1104 | 81.18 | 136.87 | 2.31 | 1.12 | 1.00 | 34.41 | 1.98 | 67.98 | 4.000 | Yes | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1105 | 81.23 | 123.31 | 2.39 | 1.33 | 1.00 | 30.87 | 2.34 | 72.13 | 4.000 | Yes | No | 2.00 |
| 1106 | 81.28 | 109.41 | 2.48 | 1.58 | 1.00 | 27.24 | 2.85 | 77.64 | 4.000 | Yes | No | 2.00 |
| 1107 | 81.33 | 98.17 | 2.57 | 1.89 | 1.00 | 24.30 | 3.46 | 84.19 | 4.000 | Yes | No | 2.00 |
| 1108 | 81.37 | 88.49 | 2.65 | 2.30 | 1.00 | 21.78 | 4.25 | 92.48 | 4.000 | Yes | Yes | 2.00 |
| 1109 | 81.42 | 81.24 | 2.73 | 2.74 | 1.00 | 19.88 | 5.05 | 100.46 | 4.000 | Yes | Yes | 2.00 |
| 1110 | 81.47 | 75.77 | 2.79 | 3.12 | 1.00 | 18.46 | 5.75 | 106.15 | 4.000 | Yes | Yes | 2.00 |
| 1111 | 81.52 | 71.99 | 2.83 | 3.36 | 1.00 | 17.47 | 6.25 | 109.13 | 4.000 | Yes | Yes | 2.00 |
| 1112 | 81.56 | 70.98 | 2.85 | 3.50 | 1.00 | 17.20 | 6.46 | 111.09 | 4.000 | Yes | Yes | 2.00 |
| 1113 | 81.61 | 70.58 | 2.86 | 3.61 | 1.00 | 17.08 | 6.60 | 112.75 | 4.000 | No | Yes | 2.00 |
| 1114 | 81.64 | 68.79 | 2.88 | 3.76 | 1.00 | 16.62 | 6.89 | 114.41 | 4.000 | No | Yes | 2.00 |
| 1115 | 81.70 | 62.18 | 2.94 | 4.16 | 1.00 | 14.89 | 7.85 | 116.91 | 4.000 | No | Yes | 2.00 |
| 1116 | 81.75 | 54.38 | 3.03 | 4.72 | 1.00 | 12.87 | 9.25 | 118.94 | 4.000 | No | Yes | 2.00 |
| 1117 | 81.79 | 46.89 | 3.11 | 5.33 | 1.00 | 10.92 | 10.91 | 119.14 | 4.000 | No | Yes | 2.00 |
| 1118 | 81.82 | 41.90 | 3.17 | 5.62 | 1.00 | 9.62 | 12.12 | 116.62 | 4.000 | No | Yes | 2.00 |
| 1119 | 81.86 | 37.62 | 3.22 | 5.76 | 1.00 | 8.51 | 13.21 | 112.49 | 4.000 | No | Yes | 2.00 |
| 1120 | 81.91 | 34.01 | 3.26 | 5.79 | 1.00 | 7.57 | 14.21 | 107.66 | 4.000 | No | Yes | 2.00 |
| 1121 | 81.95 | 30.63 | 3.30 | 5.75 | 1.00 | 6.70 | 15.27 | 102.27 | 4.000 | No | Yes | 2.00 |
| 1122 | 82.00 | 27.33 | 3.34 | 5.61 | 1.00 | 5.84 | 16.41 | 95.81 | 4.000 | No | Yes | 2.00 |
| 1123 | 82.09 | 24.26 | 3.39 | 5.48 | 1.00 | 5.04 | 17.74 | 89.46 | 4.000 | No | Yes | 2.00 |
| 1124 | 82.15 | 21.66 | 3.44 | 5.50 | 1.00 | 4.37 | 19.38 | 84.64 | 4.000 | No | Yes | 2.00 |
| 1125 | 82.19 | 19.83 | 3.48 | 5.52 | 1.00 | 3.89 | 20.80 | 81.03 | 4.000 | No | Yes | 2.00 |
| 1126 | 82.26 | 18.38 | 3.52 | 5.48 | 1.00 | 3.52 | 22.06 | 77.56 | 4.000 | No | Yes | 2.00 |
| 1127 | 82.34 | 17.00 | 3.56 | 5.45 | 1.00 | 3.16 | 23.49 | 74.17 | 4.000 | No | Yes | 2.00 |
| 1128 | 82.39 | 15.65 | 3.61 | 5.65 | 1.00 | 2.81 | 25.58 | 71.81 | 4.000 | No | Yes | 2.00 |
| 1129 | 82.48 | 14.77 | 3.64 | 5.76 | 1.00 | 2.58 | 27.14 | 69.97 | 4.000 | No | Yes | 2.00 |
| 1130 | 82.58 | 14.64 | 3.64 | 5.47 | 1.00 | 2.54 | 26.84 | 68.21 | 4.000 | No | Yes | 2.00 |
| 1131 | 82.62 | 14.74 | 3.62 | 5.09 | 1.00 | 2.57 | 25.95 | 66.60 | 4.000 | No | Yes | 2.00 |
| 1132 | 82.70 | 14.88 | 3.60 | 4.83 | 1.00 | 2.60 | 25.23 | 65.56 | 4.000 | No | Yes | 2.00 |
| 1133 | 82.77 | 14.81 | 3.59 | 4.65 | 1.00 | 2.58 | 24.98 | 64.46 | 4.000 | No | Yes | 2.00 |
| 1134 | 82.87 | 15.08 | 3.57 | 4.45 | 1.00 | 2.65 | 24.19 | 64.01 | 4.000 | No | Yes | 2.00 |
| 1135 | 82.96 | 16.23 | 3.51 | 3.90 | 1.00 | 2.94 | 21.57 | 63.38 | 4.000 | No | Yes | 2.00 |
| 1136 | 83.06 | 18.22 | 3.41 | 3.33 | 1.00 | 3.45 | 18.38 | 63.34 | 4.000 | No | Yes | 2.00 |
| 1137 | 83.16 | 21.39 | 3.29 | 2.70 | 1.00 | 4.26 | 14.82 | 63.10 | 4.000 | No | Yes | 2.00 |
| 1138 | 83.25 | 24.46 | 3.19 | 2.32 | 1.00 | 5.04 | 12.49 | 62.94 | 4.000 | No | Yes | 2.00 |
| 1139 | 83.34 | 27.20 | 3.11 | 2.06 | 1.00 | 5.74 | 10.91 | 62.57 | 4.000 | No | Yes | 2.00 |
| 1140 | 83.44 | 28.34 | 3.10 | 2.06 | 1.00 | 6.03 | 10.55 | 63.55 | 4.000 | No | Yes | 2.00 |
| 1141 | 83.54 | 28.75 | 3.10 | 2.14 | 1.00 | 6.12 | 10.60 | 64.89 | 4.000 | No | Yes | 2.00 |
| 1142 | 83.64 | 28.61 | 3.12 | 2.29 | 1.00 | 6.08 | 10.93 | 66.49 | 4.000 | No | Yes | 2.00 |
| 1143 | 83.73 | 27.70 | 3.15 | 2.52 | 1.00 | 5.84 | 11.68 | 68.29 | 4.000 | No | Yes | 2.00 |
| 1144 | 83.83 | 27.26 | 3.18 | 2.77 | 1.00 | 5.73 | 12.30 | 70.46 | 4.000 | No | Yes | 2.00 |
| 1145 | 83.85 | 26.83 | 3.21 | 3.11 | 1.00 | 5.62 | 13.07 | 73.38 | 4.000 | No | Yes | 2.00 |
| 1146 | 83.89 | 27.47 | 3.22 | 3.29 | 1.00 | 5.78 | 13.14 | 75.93 | 4.000 | No | Yes | 2.00 |
| 1147 | 83.94 | 28.11 | 3.24 | 3.78 | 1.00 | 5.94 | 13.69 | 81.26 | 4.000 | No | Yes | 2.00 |
| 1148 | 84.04 | 29.26 | 3.25 | 4.14 | 1.00 | 6.23 | 13.80 | 85.92 | 4.000 | No | Yes | 2.00 |
| 1149 | 84.09 | 30.40 | 3.25 | 4.44 | 1.00 | 6.51 | 13.83 | 90.10 | 4.000 | No | Yes | 2.00 |
| 1150 | 84.13 | 31.28 | 3.24 | 4.51 | 1.00 | 6.74 | 13.65 | 91.94 | 4.000 | No | Yes | 2.00 |
| 1151 | 84.18 | 31.68 | 3.24 | 4.64 | 1.00 | 6.83 | 13.70 | 93.61 | 4.000 | No | Yes | 2.00 |
| 1152 | 84.25 | 31.52 | 3.25 | 4.81 | 1.00 | 6.79 | 13.97 | 94.85 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1153 | 84.33 | 30.64 | 3.28 | 5.04 | 1.00 | 6.56 | 14.57 | 95.60 | 4.000 | No | Yes | 2.00 |
| 1154 | 84.37 | 29.46 | 3.31 | 5.29 | 1.00 | 6.26 | 15.33 | 95.90 | 4.000 | No | Yes | 2.00 |
| 1155 | 84.46 | 28.35 | 3.33 | 5.40 | 1.00 | 5.97 | 15.91 | 94.98 | 4.000 | No | Yes | 2.00 |
| 1156 | 84.52 | 27.50 | 3.34 | 5.37 | 1.00 | 5.75 | 16.25 | 93.43 | 4.000 | No | Yes | 2.00 |
| 1157 | 84.57 | 26.90 | 3.34 | 5.22 | 1.00 | 5.59 | 16.32 | 91.27 | 4.000 | No | Yes | 2.00 |
| 1158 | 84.67 | 26.52 | 3.34 | 5.14 | 1.00 | 5.49 | 16.38 | 90.00 | 4.000 | No | Yes | 2.00 |
| 1159 | 84.71 | 26.15 | 3.35 | 5.18 | 1.00 | 5.40 | 16.62 | 89.72 | 4.000 | No | Yes | 2.00 |
| 1160 | 84.81 | 25.58 | 3.38 | 5.48 | 1.00 | 5.25 | 17.32 | 90.86 | 4.000 | No | Yes | 2.00 |
| 1161 | 84.86 | 24.84 | 3.41 | 5.93 | 1.00 | 5.06 | 18.32 | 92.62 | 4.000 | No | Yes | 2.00 |
| 1162 | 84.91 | 24.06 | 3.44 | 6.37 | 1.00 | 4.86 | 19.36 | 94.03 | 4.000 | No | Yes | 2.00 |
| 1163 | 85.00 | 23.42 | 3.47 | 6.69 | 1.00 | 4.69 | 20.18 | 94.63 | 4.000 | No | Yes | 2.00 |
| 1164 | 85.05 | 22.81 | 3.48 | 6.79 | 1.00 | 4.53 | 20.72 | 93.94 | 4.000 | No | Yes | 2.00 |
| 1165 | 85.15 | 22.34 | 3.49 | 6.69 | 1.00 | 4.41 | 20.94 | 92.30 | 4.000 | No | Yes | 2.00 |
| 1166 | 85.19 | 21.80 | 3.49 | 6.36 | 1.00 | 4.27 | 20.88 | 89.13 | 4.000 | No | Yes | 2.00 |
| 1167 | 85.29 | 21.33 | 3.48 | 6.00 | 1.00 | 4.15 | 20.74 | 85.98 | 4.000 | No | Yes | 2.00 |
| 1168 | 85.35 | 20.72 | 3.49 | 5.75 | 1.00 | 3.99 | 20.84 | 83.14 | 4.000 | No | Yes | 2.00 |
| 1169 | 85.42 | 20.08 | 3.50 | 5.71 | 1.00 | 3.82 | 21.32 | 81.54 | 4.000 | No | Yes | 2.00 |
| 1170 | 85.48 | 19.40 | 3.52 | 5.78 | 1.00 | 3.65 | 22.03 | 80.45 | 4.000 | No | Yes | 2.00 |
| 1171 | 85.55 | 18.77 | 3.54 | 5.87 | 1.00 | 3.49 | 22.80 | 79.50 | 4.000 | No | Yes | 2.00 |
| 1172 | 85.63 | 18.19 | 3.56 | 5.98 | 1.00 | 3.34 | 23.58 | 78.76 | 4.000 | No | Yes | 2.00 |
| 1173 | 85.68 | 17.62 | 3.58 | 6.16 | 1.00 | 3.19 | 24.50 | 78.25 | 4.000 | No | Yes | 2.00 |
| 1174 | 85.77 | 17.18 | 3.60 | 6.34 | 1.00 | 3.08 | 25.34 | 78.03 | 4.000 | No | Yes | 2.00 |
| 1175 | 85.82 | 17.04 | 3.61 | 6.47 | 1.00 | 3.04 | 25.74 | 78.34 | 4.000 | No | Yes | 2.00 |
| 1176 | 85.89 | 17.42 | 3.60 | 6.38 | 1.00 | 3.13 | 25.13 | 78.79 | 4.000 | No | Yes | 2.00 |
| 1177 | 85.96 | 18.33 | 3.56 | 5.99 | 1.00 | 3.36 | 23.51 | 79.01 | 4.000 | No | Yes | 2.00 |
| 1178 | 86.03 | 19.71 | 3.49 | 5.35 | 1.00 | 3.71 | 21.16 | 78.44 | 4.000 | No | Yes | 2.00 |
| 1179 | 86.11 | 21.06 | 3.44 | 4.76 | 1.00 | 4.04 | 19.14 | 77.40 | 4.000 | No | Yes | 2.00 |
| 1180 | 86.16 | 22.11 | 3.39 | 4.32 | 1.00 | 4.30 | 17.71 | 76.21 | 4.000 | No | Yes | 2.00 |
| 1181 | 86.25 | 21.67 | 3.40 | 4.38 | 1.00 | 4.19 | 18.09 | 75.81 | 4.000 | No | Yes | 2.00 |
| 1182 | 86.36 | 19.98 | 3.45 | 4.62 | 1.00 | 3.76 | 19.76 | 74.32 | 4.000 | No | Yes | 2.00 |
| 1183 | 86.50 | 18.16 | 3.52 | 4.99 | 1.00 | 3.30 | 22.08 | 72.85 | 4.000 | No | Yes | 2.00 |
| 1184 | 86.51 | 17.25 | 3.55 | 5.00 | 1.00 | 3.07 | 23.09 | 70.91 | 4.000 | No | Yes | 2.00 |
| 1185 | 86.52 | 17.32 | 3.53 | 4.74 | 1.00 | 3.09 | 22.53 | 69.58 | 4.000 | No | Yes | 2.00 |
| 1186 | 86.57 | 17.35 | 3.51 | 4.25 | 1.00 | 3.10 | 21.58 | 66.80 | 4.000 | No | Yes | 2.00 |
| 1187 | 86.65 | 17.39 | 3.48 | 3.72 | 1.00 | 3.10 | 20.48 | 63.50 | 4.000 | No | Yes | 2.00 |
| 1188 | 86.71 | 17.35 | 3.45 | 3.31 | 1.00 | 3.09 | 19.65 | 60.73 | 4.000 | No | Yes | 2.00 |
| 1189 | 86.80 | 17.08 | 3.45 | 3.15 | 1.00 | 3.02 | 19.57 | 59.11 | 4.000 | No | Yes | 2.00 |
| 1190 | 86.90 | 16.48 | 3.46 | 3.06 | 1.00 | 2.87 | 20.04 | 57.42 | 4.000 | No | Yes | 2.00 |
| 1191 | 86.99 | 15.77 | 3.48 | 3.01 | 1.00 | 2.69 | 20.75 | 55.74 | 4.000 | No | Yes | 2.00 |
| 1192 | 87.04 | 15.26 | 3.50 | 2.94 | 1.00 | 2.56 | 21.24 | 54.32 | 4.000 | No | Yes | 2.00 |
| 1193 | 87.14 | 15.16 | 3.49 | 2.85 | 1.00 | 2.53 | 21.16 | 53.51 | 4.000 | No | Yes | 2.00 |
| 1194 | 87.19 | 15.36 | 3.48 | 2.77 | 1.00 | 2.58 | 20.70 | 53.36 | 4.000 | No | Yes | 2.00 |
| 1195 | 87.28 | 15.87 | 3.46 | 2.79 | 1.00 | 2.70 | 20.13 | 54.40 | 4.000 | No | Yes | 2.00 |
| 1196 | 87.38 | 16.51 | 3.45 | 2.81 | 1.00 | 2.86 | 19.47 | 55.67 | 4.000 | No | Yes | 2.00 |
| 1197 | 87.43 | 17.18 | 3.42 | 2.82 | 1.00 | 3.03 | 18.79 | 56.85 | 4.000 | No | Yes | 2.00 |
| 1198 | 87.52 | 17.76 | 3.40 | 2.76 | 1.00 | 3.17 | 18.12 | 57.36 | 4.000 | No | Yes | 2.00 |
| 1199 | 87.61 | 18.23 | 3.38 | 2.70 | 1.00 | 3.28 | 17.55 | 57.58 | 4.000 | No | Yes | 2.00 |
| 1200 | 87.66 | 18.53 | 3.37 | 2.63 | 1.00 | 3.35 | 17.13 | 57.47 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1201 | 87.76 | 18.57 | 3.37 | 2.58 | 1.00 | 3.36 | 17.00 | 57.12 | 4.000 | No | Yes | 2.00 |
| 1202 | 87.84 | 18.43 | 3.37 | 2.54 | 1.00 | 3.32 | 17.02 | 56.58 | 4.000 | No | Yes | 2.00 |
| 1203 | 87.91 | 18.13 | 3.37 | 2.53 | 1.00 | 3.25 | 17.27 | 56.08 | 4.000 | No | Yes | 2.00 |
| 1204 | 88.00 | 17.79 | 3.39 | 2.53 | 1.00 | 3.16 | 17.58 | 55.54 | 4.000 | No | Yes | 2.00 |
| 1205 | 88.11 | 17.46 | 3.40 | 2.56 | 1.00 | 3.07 | 17.98 | 55.23 | 4.000 | No | Yes | 2.00 |
| 1206 | 88.19 | 17.22 | 3.41 | 2.58 | 1.00 | 3.01 | 18.27 | 55.01 | 4.000 | No | Yes | 2.00 |
| 1207 | 88.25 | 17.08 | 3.41 | 2.59 | 1.00 | 2.98 | 18.42 | 54.79 | 4.000 | No | Yes | 2.00 |
| 1208 | 88.34 | 17.02 | 3.41 | 2.53 | 1.00 | 2.96 | 18.36 | 54.27 | 4.000 | No | Yes | 2.00 |
| 1209 | 88.44 | 16.98 | 3.41 | 2.45 | 1.00 | 2.94 | 18.20 | 53.59 | 4.000 | No | Yes | 2.00 |
| 1210 | 88.54 | 16.98 | 3.40 | 2.37 | 1.00 | 2.94 | 17.99 | 52.93 | 4.000 | No | Yes | 2.00 |
| 1211 | 88.64 | 16.95 | 3.40 | 2.33 | 1.00 | 2.93 | 17.92 | 52.52 | 4.000 | No | Yes | 2.00 |
| 1212 | 88.72 | 16.88 | 3.40 | 2.33 | 1.00 | 2.91 | 18.00 | 52.42 | 4.000 | No | Yes | 2.00 |
| 1213 | 88.82 | 16.82 | 3.40 | 2.36 | 1.00 | 2.89 | 18.16 | 52.53 | 4.000 | No | Yes | 2.00 |
| 1214 | 88.91 | 16.72 | 3.41 | 2.41 | 1.00 | 2.87 | 18.42 | 52.79 | 4.000 | No | Yes | 2.00 |
| 1215 | 89.01 | 16.62 | 3.42 | 2.47 | 1.00 | 2.84 | 18.68 | 53.02 | 4.000 | No | Yes | 2.00 |
| 1216 | 89.10 | 16.49 | 3.43 | 2.53 | 1.00 | 2.80 | 18.99 | 53.22 | 4.000 | No | Yes | 2.00 |
| 1217 | 89.19 | 16.32 | 3.44 | 2.53 | 1.00 | 2.76 | 19.19 | 52.91 | 4.000 | No | Yes | 2.00 |
| 1218 | 89.30 | 16.21 | 3.41 | 2.22 | 1.00 | 2.73 | 18.48 | 50.44 | 4.000 | No | Yes | 2.00 |
| 1219 | 89.39 | 16.31 | 3.39 | 2.02 | 1.00 | 2.75 | 17.80 | 48.98 | 4.000 | No | Yes | 2.00 |
| 1220 | 89.49 | 16.62 | 3.38 | 2.03 | 1.00 | 2.82 | 17.53 | 49.49 | 4.000 | No | Yes | 2.00 |
| 1221 | 89.59 | 16.90 | 3.41 | 2.39 | 1.00 | 2.89 | 18.25 | 52.76 | 4.000 | No | Yes | 2.00 |
| 1222 | 89.69 | 17.04 | 3.42 | 2.65 | 1.00 | 2.92 | 18.79 | 54.90 | 4.000 | No | Yes | 2.00 |
| 1223 | 89.73 | 17.68 | 3.40 | 2.64 | 1.00 | 3.08 | 18.14 | 55.86 | 4.000 | No | Yes | 2.00 |
| 1224 | 89.78 | 18.48 | 3.37 | 2.53 | 1.00 | 3.27 | 17.18 | 56.23 | 4.000 | No | Yes | 2.00 |
| 1225 | 89.83 | 19.36 | 3.34 | 2.42 | 1.00 | 3.49 | 16.22 | 56.56 | 4.000 | No | Yes | 2.00 |
| 1226 | 89.88 | 19.63 | 3.33 | 2.44 | 1.00 | 3.55 | 16.06 | 57.05 | 4.000 | No | Yes | 2.00 |
| 1227 | 89.93 | 19.86 | 3.33 | 2.48 | 1.00 | 3.61 | 16.01 | 57.77 | 4.000 | No | Yes | 2.00 |
| 1228 | 90.00 | 20.24 | 3.33 | 2.55 | 1.00 | 3.70 | 15.90 | 58.79 | 4.000 | No | Yes | 2.00 |
| 1229 | 90.07 | 20.88 | 3.31 | 2.57 | 1.00 | 3.85 | 15.53 | 59.82 | 4.000 | No | Yes | 2.00 |
| 1230 | 90.12 | 21.62 | 3.30 | 2.62 | 1.00 | 4.03 | 15.19 | 61.24 | 4.000 | No | Yes | 2.00 |
| 1231 | 90.22 | 22.26 | 3.29 | 2.71 | 1.00 | 4.19 | 15.01 | 62.84 | 4.000 | No | Yes | 2.00 |
| 1232 | 90.27 | 23.04 | 3.29 | 2.93 | 1.00 | 4.37 | 15.02 | 65.70 | 4.000 | No | Yes | 2.00 |
| 1233 | 90.36 | 24.99 | 3.26 | 2.95 | 1.00 | 4.85 | 14.09 | 68.34 | 4.000 | No | Yes | 2.00 |
| 1234 | 90.46 | 27.46 | 3.21 | 2.86 | 1.00 | 5.45 | 12.89 | 70.27 | 4.000 | No | Yes | 2.00 |
| 1235 | 90.50 | 29.28 | 3.17 | 2.76 | 1.00 | 5.89 | 12.05 | 71.01 | 4.000 | No | Yes | 2.00 |
| 1236 | 90.61 | 29.48 | 3.17 | 2.77 | 1.00 | 5.94 | 12.02 | 71.39 | 4.000 | No | Yes | 2.00 |
| 1237 | 90.66 | 28.70 | 3.18 | 2.82 | 1.00 | 5.75 | 12.38 | 71.12 | 4.000 | No | Yes | 2.00 |
| 1238 | 90.75 | 27.62 | 3.20 | 2.80 | 1.00 | 5.48 | 12.73 | 69.74 | 4.000 | No | Yes | 2.00 |
| 1239 | 90.84 | 26.17 | 3.22 | 2.78 | 1.00 | 5.12 | 13.28 | 67.94 | 4.000 | No | Yes | 2.00 |
| 1240 | 90.89 | 24.72 | 3.25 | 2.77 | 1.00 | 4.76 | 13.90 | 66.20 | 4.000 | No | Yes | 2.00 |
| 1241 | 90.99 | 23.48 | 3.28 | 2.82 | 1.00 | 4.45 | 14.63 | 65.12 | 4.000 | No | Yes | 2.00 |
| 1242 | 91.04 | 22.50 | 3.30 | 2.86 | 1.00 | 4.21 | 15.24 | 64.21 | 4.000 | No | Yes | 2.00 |
| 1243 | 91.14 | 21.59 | 3.33 | 2.94 | 1.00 | 3.99 | 15.98 | 63.69 | 4.000 | No | Yes | 2.00 |
| 1244 | 91.22 | 20.75 | 3.36 | 3.03 | 1.00 | 3.78 | 16.73 | 63.19 | 4.000 | No | Yes | 2.00 |
| 1245 | 91.28 | 19.83 | 3.39 | 3.13 | 1.00 | 3.55 | 17.61 | 62.55 | 4.000 | No | Yes | 2.00 |
| 1246 | 91.37 | 19.26 | 3.40 | 3.14 | 1.00 | 3.41 | 18.11 | 61.75 | 4.000 | No | Yes | 2.00 |
| 1247 | 91.47 | 18.99 | 3.40 | 3.07 | 1.00 | 3.34 | 18.18 | 60.75 | 4.000 | No | Yes | 2.00 |
| 1248 | 91.61 | 19.26 | 3.39 | 2.94 | 1.00 | 3.40 | 17.69 | 60.19 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1249 | 91.71 | 19.40 | 3.38 | 2.89 | 1.00 | 3.43 | 17.48 | 59.97 | 4.000 | No | Yes | 2.00 |
| 1250 | 91.81 | 19.50 | 3.38 | 2.88 | 1.00 | 3.45 | 17.39 | 60.03 | 4.000 | No | Yes | 2.00 |
| 1251 | 91.87 | 19.36 | 3.38 | 2.86 | 1.00 | 3.42 | 17.46 | 59.68 | 4.000 | No | Yes | 2.00 |
| 1252 | 92.00 | 19.38 | 3.36 | 2.58 | 1.00 | 3.42 | 16.82 | 57.50 | 4.000 | No | Yes | 2.00 |
| 1253 | 92.10 | 19.41 | 3.34 | 2.37 | 1.00 | 3.42 | 16.30 | 55.77 | 4.000 | No | Yes | 2.00 |
| 1254 | 92.20 | 19.62 | 3.32 | 2.25 | 1.00 | 3.47 | 15.85 | 54.98 | 4.000 | No | Yes | 2.00 |
| 1255 | 92.33 | 19.76 | 3.33 | 2.39 | 1.00 | 3.50 | 16.12 | 56.37 | 4.000 | No | Yes | 2.00 |
| 1256 | 92.38 | 19.89 | 3.34 | 2.50 | 1.00 | 3.53 | 16.27 | 57.43 | 4.000 | No | Yes | 2.00 |
| 1257 | 92.43 | 20.03 | 3.34 | 2.54 | 1.00 | 3.56 | 16.28 | 57.96 | 4.000 | No | Yes | 2.00 |
| 1258 | 92.48 | 19.98 | 3.35 | 2.62 | 1.00 | 3.55 | 16.52 | 58.57 | 4.000 | No | Yes | 2.00 |
| 1259 | 92.56 | 19.88 | 3.36 | 2.71 | 1.00 | 3.52 | 16.79 | 59.09 | 4.000 | No | Yes | 2.00 |
| 1260 | 92.63 | 19.64 | 3.37 | 2.79 | 1.00 | 3.46 | 17.17 | 59.41 | 4.000 | No | Yes | 2.00 |
| 1261 | 92.67 | 19.57 | 3.37 | 2.81 | 1.00 | 3.44 | 17.27 | 59.42 | 4.000 | No | Yes | 2.00 |
| 1262 | 92.72 | 19.54 | 3.38 | 2.81 | 1.00 | 3.43 | 17.30 | 59.38 | 4.000 | No | Yes | 2.00 |
| 1263 | 92.77 | 19.64 | 3.37 | 2.79 | 1.00 | 3.46 | 17.18 | 59.37 | 4.000 | No | Yes | 2.00 |
| 1264 | 92.86 | 19.84 | 3.37 | 2.77 | 1.00 | 3.50 | 16.99 | 59.49 | 4.000 | No | Yes | 2.00 |
| 1265 | 92.92 | 20.08 | 3.36 | 2.78 | 1.00 | 3.56 | 16.84 | 59.88 | 4.000 | No | Yes | 2.00 |
| 1266 | 92.97 | 20.21 | 3.37 | 2.90 | 1.00 | 3.59 | 17.01 | 61.03 | 4.000 | No | Yes | 2.00 |
| 1267 | 93.05 | 20.35 | 3.37 | 3.02 | 1.00 | 3.62 | 17.17 | 62.12 | 4.000 | No | Yes | 2.00 |
| 1268 | 93.10 | 20.62 | 3.37 | 3.09 | 1.00 | 3.68 | 17.13 | 63.07 | 4.000 | No | Yes | 2.00 |
| 1269 | 93.16 | 21.10 | 3.35 | 3.03 | 1.00 | 3.79 | 16.68 | 63.28 | 4.000 | No | Yes | 2.00 |
| 1270 | 93.25 | 21.70 | 3.33 | 2.92 | 1.00 | 3.94 | 16.06 | 63.20 | 4.000 | No | Yes | 2.00 |
| 1271 | 93.35 | 22.78 | 3.29 | 2.71 | 1.00 | 4.19 | 14.99 | 62.84 | 4.000 | No | Yes | 2.00 |
| 1272 | 93.40 | 23.19 | 3.27 | 2.59 | 1.00 | 4.29 | 14.52 | 62.27 | 4.000 | No | Yes | 2.00 |
| 1273 | 93.49 | 23.25 | 3.27 | 2.54 | 1.00 | 4.30 | 14.38 | 61.82 | 4.000 | No | Yes | 2.00 |
| 1274 | 93.56 | 22.71 | 3.28 | 2.58 | 1.00 | 4.17 | 14.77 | 61.55 | 4.000 | No | Yes | 2.00 |
| 1275 | 93.64 | 22.88 | 3.28 | 2.57 | 1.00 | 4.21 | 14.66 | 61.65 | 4.000 | No | Yes | 2.00 |
| 1276 | 93.73 | 23.63 | 3.27 | 2.60 | 1.00 | 4.38 | 14.34 | 62.81 | 4.000 | No | Yes | 2.00 |
| 1277 | 93.83 | 24.91 | 3.25 | 2.65 | 1.00 | 4.69 | 13.81 | 64.72 | 4.000 | No | Yes | 2.00 |
| 1278 | 93.88 | 26.43 | 3.23 | 2.80 | 1.00 | 5.05 | 13.44 | 67.85 | 4.000 | No | Yes | 2.00 |
| 1279 | 93.97 | 27.01 | 3.24 | 3.00 | 1.00 | 5.18 | 13.58 | 70.35 | 4.000 | No | Yes | 2.00 |
| 1280 | 94.07 | 26.43 | 3.27 | 3.36 | 1.00 | 5.04 | 14.48 | 72.95 | 4.000 | No | Yes | 2.00 |
| 1281 | 94.17 | 25.76 | 3.31 | 3.78 | 1.00 | 4.87 | 15.51 | 75.57 | 4.000 | No | Yes | 2.00 |
| 1282 | 94.26 | 26.70 | 3.29 | 3.75 | 1.00 | 5.09 | 15.04 | 76.60 | 4.000 | No | Yes | 2.00 |
| 1283 | 94.36 | 27.88 | 3.30 | 4.18 | 1.00 | 5.37 | 15.22 | 81.75 | 4.000 | No | Yes | 2.00 |
| 1284 | 94.45 | 29.47 | 3.30 | 4.56 | 1.00 | 5.75 | 15.14 | 87.02 | 4.000 | No | Yes | 2.00 |
| 1285 | 94.55 | 35.88 | 3.19 | 4.21 | 1.00 | 7.27 | 12.61 | 91.74 | 4.000 | No | Yes | 2.00 |
| 1286 | 94.64 | 48.46 | 3.00 | 3.11 | 1.00 | 10.27 | 8.71 | 89.52 | 4.000 | No | Yes | 2.00 |
| 1287 | 94.72 | 59.93 | 2.85 | 2.46 | 1.00 | 13.01 | 6.55 | 85.22 | 4.000 | No | Yes | 2.00 |
| 1288 | 94.74 | 73.87 | 2.72 | 1.96 | 1.00 | 16.33 | 4.89 | 79.85 | 4.000 | No | Yes | 2.00 |
| 1289 | 94.77 | 84.50 | 2.64 | 1.75 | 1.00 | 18.86 | 4.08 | 76.98 | 4.000 | No | Yes | 2.00 |
| 1290 | 94.85 | 97.35 | 2.56 | 1.57 | 1.00 | 21.92 | 3.39 | 74.39 | 4.000 | No | No | 2.00 |
| 1291 | 94.90 | 102.75 | 2.54 | 1.57 | 1.00 | 23.20 | 3.24 | 75.17 | 4.000 | No | No | 2.00 |
| 1292 | 94.95 | 105.32 | 2.54 | 1.66 | 1.00 | 23.80 | 3.27 | 77.89 | 4.000 | No | No | 2.00 |
| 1293 | 95.01 | 104.68 | 2.58 | 1.94 | 1.00 | 23.63 | 3.61 | 85.22 | 4.000 | No | No | 2.00 |
| 1294 | 95.09 | 100.83 | 2.64 | 2.34 | 1.00 | 22.70 | 4.16 | 94.37 | 4.000 | No | Yes | 2.00 |
| 1295 | 95.14 | 94.49 | 2.73 | 2.97 | 1.00 | 21.18 | 5.05 | 107.02 | 4.000 | No | Yes | 2.00 |
| 1296 | 95.23 | 86.42 | 2.82 | 3.64 | 1.00 | 19.25 | 6.10 | 117.34 | 4.000 | No | Yes | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1297 | 95.29 | 78.06 | 2.91 | 4.43 | 1.00 | 17.25 | 7.36 | 126.89 | 4.000 | No | Yes | 2.00 |
| 1298 | 95.38 | 71.11 | 2.98 | 5.04 | 1.00 | 15.59 | 8.45 | 131.69 | 4.000 | No | Yes | 2.00 |
| 1299 | 95.43 | 67.53 | 3.02 | 5.36 | 1.00 | 14.73 | 9.06 | 133.43 | 4.000 | No | Yes | 2.00 |
| 1300 | 95.52 | 67.83 | 3.01 | 5.27 | 1.00 | 14.79 | 8.96 | 132.50 | 4.000 | No | Yes | 2.00 |
| 1301 | 95.57 | 70.23 | 2.98 | 4.89 | 1.00 | 15.35 | 8.40 | 128.95 | 4.000 | No | Yes | 2.00 |
| 1302 | 95.67 | 71.24 | 2.95 | 4.48 | 1.00 | 15.58 | 7.93 | 123.49 | 4.000 | No | Yes | 2.00 |
| 1303 | 95.77 | 66.52 | 2.97 | 4.36 | 1.00 | 14.45 | 8.22 | 118.72 | 4.000 | No | Yes | 2.00 |
| 1304 | 95.86 | 56.97 | 3.06 | 4.90 | 1.00 | 12.17 | 9.76 | 118.80 | 4.000 | No | Yes | 2.00 |
| 1305 | 95.95 | 52.94 | 3.09 | 5.00 | 1.00 | 11.21 | 10.40 | 116.56 | 4.000 | No | Yes | 2.00 |
| 1306 | 96.03 | 46.73 | 3.17 | 5.75 | 1.00 | 9.74 | 12.16 | 118.40 | 4.000 | No | Yes | 2.00 |
| 1307 | 96.11 | 51.55 | 3.12 | 5.30 | 1.00 | 10.87 | 10.92 | 118.64 | 4.000 | No | Yes | 2.00 |
| 1308 | 96.20 | 59.20 | 3.06 | 5.23 | 1.00 | 12.66 | 9.84 | 124.65 | 4.000 | No | Yes | 2.00 |
| 1309 | 96.30 | 80.15 | 2.90 | 4.31 | 1.00 | 17.59 | 7.15 | 125.73 | 4.000 | Yes | Yes | 2.00 |
| 1310 | 96.39 | 101.37 | 2.77 | 3.72 | 1.00 | 22.58 | 5.51 | 124.50 | 4.000 | Yes | Yes | 2.00 |
| 1311 | 96.50 | 122.96 | 2.67 | 3.23 | 1.00 | 27.64 | 4.35 | 120.31 | 4.000 | Yes | Yes | 2.00 |
| 1312 | 96.59 | 144.96 | 2.54 | 2.51 | 1.00 | 32.80 | 3.25 | 106.72 | 4.000 | Yes | No | 2.00 |
| 1313 | 96.69 | 164.86 | 2.41 | 1.87 | 1.00 | 37.45 | 2.44 | 91.36 | 4.000 | Yes | No | 2.00 |
| 1314 | 96.78 | 180.18 | 2.29 | 1.32 | 1.00 | 41.02 | 1.89 | 77.51 | 4.000 | Yes | No | 2.00 |
| 1315 | 96.87 | 185.95 | 2.24 | 1.13 | 1.00 | 42.35 | 1.72 | 72.98 | 4.000 | Yes | No | 2.00 |
| 1316 | 96.98 | 185.28 | 2.23 | 1.08 | 1.00 | 42.15 | 1.69 | 71.40 | 4.000 | No | No | 2.00 |
| 1317 | 97.02 | 177.79 | 2.26 | 1.14 | 1.00 | 40.38 | 1.78 | 71.90 | 4.000 | No | No | 2.00 |
| 1318 | 97.06 | 176.40 | 2.27 | 1.20 | 1.00 | 40.04 | 1.83 | 73.47 | 4.000 | No | No | 2.00 |
| 1319 | 97.12 | 175.60 | 2.30 | 1.30 | 1.00 | 39.84 | 1.91 | 76.16 | 4.000 | No | No | 2.00 |
| 1320 | 97.16 | 176.98 | 2.31 | 1.41 | 1.00 | 40.15 | 1.98 | 79.48 | 4.000 | No | No | 2.00 |
| 1321 | 97.21 | 173.67 | 2.35 | 1.58 | 1.00 | 39.35 | 2.13 | 83.99 | 4.000 | No | No | 2.00 |
| 1322 | 97.27 | 170.50 | 2.39 | 1.77 | 1.00 | 38.59 | 2.31 | 89.17 | 4.000 | No | No | 2.00 |
| 1323 | 97.33 | 168.21 | 2.42 | 1.93 | 1.00 | 38.04 | 2.46 | 93.67 | 4.000 | No | No | 2.00 |
| 1324 | 97.40 | 165.98 | 2.44 | 2.03 | 1.00 | 37.49 | 2.57 | 96.33 | 4.000 | No | No | 2.00 |
| 1325 | 97.45 | 163.92 | 2.45 | 2.09 | 1.00 | 37.00 | 2.64 | 97.51 | 4.000 | Yes | No | 2.00 |
| 1326 | 97.50 | 161.39 | 2.47 | 2.20 | 1.00 | 36.39 | 2.76 | 100.38 | 4.000 | Yes | No | 2.00 |
| 1327 | 97.58 | 155.82 | 2.50 | 2.38 | 1.00 | 35.06 | 2.99 | 104.78 | 4.000 | Yes | No | 2.00 |
| 1328 | 97.65 | 146.95 | 2.55 | 2.64 | 1.00 | 32.97 | 3.34 | 110.26 | 4.000 | Yes | No | 2.00 |
| 1329 | 97.69 | 134.43 | 2.60 | 2.87 | 1.00 | 30.04 | 3.79 | 113.95 | 4.000 | Yes | Yes | 2.00 |
| 1330 | 97.74 | 121.75 | 2.66 | 3.06 | 1.00 | 27.07 | 4.27 | 115.68 | 4.000 | Yes | Yes | 2.00 |
| 1331 | 97.81 | 110.51 | 2.71 | 3.22 | 1.00 | 24.44 | 4.76 | 116.42 | 4.000 | Yes | Yes | 2.00 |
| 1332 | 97.88 | 103.09 | 2.74 | 3.33 | 1.00 | 22.69 | 5.14 | 116.63 | 4.000 | Yes | Yes | 2.00 |
| 1333 | 97.93 | 108.66 | 2.70 | 3.05 | 1.00 | 23.98 | 4.67 | 111.98 | 4.000 | Yes | Yes | 2.00 |
| 1334 | 98.03 | 138.72 | 2.52 | 2.22 | 1.00 | 30.95 | 3.15 | 97.35 | 4.000 | Yes | No | 2.00 |
| 1335 | 98.15 | 182.62 | 2.33 | 1.53 | 1.00 | 41.12 | 2.03 | 83.50 | 4.000 | Yes | No | 2.00 |
| 1336 | 98.21 | 228.43 | 2.15 | 1.06 | 1.00 | 51.75 | 1.51 | 78.05 | 4.000 | Yes | No | 2.00 |
| 1337 | 98.32 | 264.20 | 2.03 | 0.81 | 1.00 | 60.00 | 1.34 | 80.19 | 4.000 | Yes | No | 2.00 |
| 1338 | 98.42 | 301.85 | 1.92 | 0.62 | 1.00 | 68.69 | 1.25 | 85.96 | 4.000 | Yes | No | 2.00 |
| 1339 | 98.47 | 349.59 | 1.79 | 0.45 | 1.00 | 79.73 | 1.00 | 79.73 | 4.000 | Yes | No | 2.00 |
| 1340 | 98.57 | 388.76 | 1.69 | 0.32 | 1.00 | 88.75 | 1.00 | 88.75 | 4.000 | No | No | 2.00 |
| 1341 | 98.70 | 411.84 | 1.61 | 0.24 | 1.00 | 94.00 | 1.00 | 94.00 | 4.000 | No | No | 2.00 |
| 1342 | 98.78 | 404.01 | 1.62 | 0.24 | 1.00 | 92.13 | 1.00 | 92.13 | 4.000 | No | No | 2.00 |
| 1343 | 98.85 | 372.43 | 1.67 | 0.27 | 1.00 | 84.79 | 1.00 | 84.79 | 4.000 | No | No | 2.00 |
| 1344 | 98.86 | 337.78 | 1.74 | 0.31 | 1.00 | 76.77 | 1.00 | 76.77 | 4.000 | No | No | 2.00 |

**:: Cyclic Resistance Ratio (CRR) calculation data :: (continued)**

| Point ID | Depth (ft) | $q_t$ (tsf) | $I_c$ | Fr (%) | n | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $CRR_{7.5}$ | Belongs to trans. layer | Clay-like behaviour | FS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1345 | 98.92 | 322.73 | 1.77 | 0.33 | 1.00 | 73.26 | 1.00 | 73.26 | 4.000 | No | No | 2.00 |
| 1346 | 98.98 | 318.48 | 1.78 | 0.34 | 1.00 | 72.24 | 1.00 | 72.24 | 4.000 | Yes | No | 2.00 |
| 1347 | 99.03 | 309.41 | 1.81 | 0.38 | 1.00 | 70.12 | 1.00 | 70.12 | 4.000 | Yes | No | 2.00 |
| 1348 | 99.11 | 281.64 | 1.90 | 0.48 | 1.00 | 63.67 | 1.00 | 63.67 | 4.000 | Yes | No | 2.00 |
| 1349 | 99.18 | 255.32 | 1.99 | 0.62 | 1.00 | 57.57 | 1.30 | 74.69 | 4.000 | Yes | No | 2.00 |
| 1350 | 99.23 | 231.33 | 2.09 | 0.83 | 1.00 | 52.01 | 1.41 | 73.25 | 4.000 | Yes | No | 2.00 |
| 1351 | 99.32 | 209.84 | 2.20 | 1.12 | 1.00 | 47.02 | 1.62 | 76.01 | 4.000 | Yes | No | 2.00 |
| 1352 | 99.37 | 189.39 | 2.31 | 1.49 | 1.00 | 42.29 | 1.96 | 83.05 | 4.000 | Yes | No | 2.00 |
| 1353 | 99.45 | 170.57 | 2.40 | 1.81 | 1.00 | 37.93 | 2.37 | 90.04 | 4.000 | Yes | No | 2.00 |
| 1354 | 99.56 | 157.24 | 2.47 | 2.08 | 1.00 | 34.83 | 2.76 | 96.01 | 4.000 | Yes | No | 2.00 |
| 1355 | 99.64 | 147.39 | 2.52 | 2.34 | 1.00 | 32.55 | 3.13 | 101.90 | 4.000 | Yes | No | 2.00 |
| 1356 | 99.71 | 140.04 | 2.57 | 2.64 | 1.00 | 30.84 | 3.53 | 108.77 | 4.000 | Yes | No | 2.00 |
| 1357 | 99.75 | 128.26 | 2.63 | 2.93 | 1.00 | 28.12 | 4.04 | 113.72 | 4.000 | Yes | Yes | 2.00 |
| 1358 | 99.90 | 116.32 | 2.70 | 3.25 | 1.00 | 25.35 | 4.67 | 118.27 | 4.000 | Yes | Yes | 2.00 |
| 1359 | 99.95 | 101.78 | 2.79 | 3.87 | 1.00 | 22.01 | 5.75 | 126.55 | 4.000 | Yes | Yes | 2.00 |
| 1360 | 100.04 | 116.32 | 2.73 | 3.67 | 1.00 | 25.32 | 5.03 | 127.45 | 4.000 | Yes | Yes | 2.00 |
| 1361 | 100.14 | 159.30 | 2.55 | 2.82 | 1.00 | 35.14 | 3.33 | 116.89 | 4.000 | Yes | No | 2.00 |
| 1362 | 100.14 | 204.99 | 2.39 | 2.20 | 1.00 | 45.59 | 2.33 | 106.43 | 4.000 | Yes | No | 2.00 |
| 1363 | 100.15 | 235.79 | 2.32 | 2.02 | 1.00 | 52.64 | 2.00 | 105.52 | 4.000 | Yes | No | 2.00 |
| 1364 | 100.19 | 258.80 | 2.30 | 2.10 | 1.00 | 57.89 | 1.93 | 111.71 | 4.000 | Yes | No | 2.00 |
| 1365 | 100.21 | 298.07 | 2.26 | 2.14 | 1.00 | 66.86 | 1.78 | 119.29 | 4.000 | Yes | No | 2.00 |
| 1366 | 100.24 | 351.88 | 2.06 | 1.31 | 1.00 | 79.16 | 1.37 | 108.37 | 4.000 | Yes | No | 2.00 |
| 1367 | 100.28 | 410.56 | 1.80 | 0.59 | 1.00 | 92.54 | 1.15 | 106.62 | 4.000 | Yes | No | 2.00 |
| 1368 | 100.31 | 470.98 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1369 | 100.33 | 508.57 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1370 | 100.38 | 524.63 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1371 | 100.39 | 526.55 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1372 | 100.43 | 531.78 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1373 | 100.48 | 522.24 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1374 | 100.53 | 509.38 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1375 | 100.57 | 496.12 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |
| 1376 | 100.60 | 497.27 | N/A | 0.00 | 1.00 | -1.00 | 1.00 | N/A | 4.000 | No | No | 2.00 |

**Abbreviations**

Depth: Depth from free surface, at which CPT was performed (ft)
$q_t$: Total cone resistance
$I_c$: Soil behavior type index
Fr: Normalized friction ratio (%)
n: Stress exponent
$Q_{tn}$: Normalized cone resistance
$K_c$: Cone resistance correction factor due to fines
$Q_{tn,cs}$: Normalized and adjusted cone resistance
$CRR_{7.5}$: Cyclic resistance ratio for $M_w$=7.5
FS: Factor of safety against soil liquefaction

**:: Liquefaction Potential Index calculation data ::**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.04 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 0.10 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 0.11 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.16 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 0.19 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.24 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 0.31 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 0.38 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 0.43 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 0.49 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 0.58 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 0.63 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 0.67 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 0.72 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 0.72 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.84 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 |
| 0.96 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 | 1.06 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 1.24 | 2.00 | 0.00 | 0.00 | 0.19 | 0.00 | 1.30 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 1.48 | 2.00 | 0.00 | 0.00 | 0.18 | 0.00 | 1.59 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 1.69 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 1.69 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 1.74 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 1.79 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 1.84 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 1.88 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 1.93 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 1.99 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 2.03 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 2.08 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 2.13 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 2.22 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 2.27 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 2.33 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 2.42 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 2.48 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 2.56 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 2.65 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 2.72 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 2.80 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 2.89 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 2.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 3.04 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 3.14 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 3.23 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 3.31 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 3.37 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 3.48 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 3.57 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 3.65 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 3.71 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 3.82 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 3.91 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 4.00 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 4.10 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 4.19 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 4.26 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 4.35 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 4.44 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 4.52 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 4.53 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 4.58 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 4.63 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 4.68 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 4.72 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 4.77 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 4.82 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 4.88 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 4.96 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 5.01 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 5.08 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 5.16 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 5.21 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 5.30 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 5.37 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 5.45 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 5.52 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 5.59 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 5.65 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 5.74 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 5.83 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 5.89 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 5.97 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 6.07 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 6.12 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 6.22 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 6.28 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 6.36 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 6.46 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 6.52 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 6.60 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 6.70 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 6.76 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 6.84 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6.94 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 7.03 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 7.13 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 7.19 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 7.32 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 7.42 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 7.49 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 7.57 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 7.66 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 7.76 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 7.77 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 7.78 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 7.82 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 7.87 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 7.92 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 7.97 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 8.01 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 8.06 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 8.11 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 8.20 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 8.26 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 8.35 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 8.40 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 8.49 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 8.54 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 8.64 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 8.69 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 8.79 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 8.84 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 8.93 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 9.03 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 9.08 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 9.11 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 9.12 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 9.17 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 9.22 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 9.31 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 9.36 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 9.40 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 9.46 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 9.51 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 9.55 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 9.61 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 9.69 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 9.74 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 9.81 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 9.89 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 9.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 10.03 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 10.08 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 10.18 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 10.23 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 10.33 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 10.40 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 10.47 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 10.51 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 10.56 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 10.61 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 10.67 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 10.75 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 10.80 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 10.85 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 10.90 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 11.00 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 11.05 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 11.14 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 11.21 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 11.29 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 11.38 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 11.46 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 11.52 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 11.60 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 11.67 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 11.72 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 11.81 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 11.86 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 11.96 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 12.01 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 12.10 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 12.16 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 12.24 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 12.32 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 12.39 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 12.48 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 12.50 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 12.54 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 12.64 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 12.68 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 12.77 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 12.82 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 12.89 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 12.97 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 13.03 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 13.12 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 13.16 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 13.26 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 13.34 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 13.41 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 13.50 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 13.60 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 13.65 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 13.75 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 13.80 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 13.89 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 13.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 14.03 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 14.11 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 14.13 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 14.18 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 14.22 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 14.28 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 14.37 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 14.44 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 14.51 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 14.60 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 14.65 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 14.75 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 14.85 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 14.91 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 14.99 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 15.09 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 15.18 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 15.25 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 15.33 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 15.43 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 15.51 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 15.59 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 15.67 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 15.76 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 15.86 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 15.95 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 16.05 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 16.14 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 16.20 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 16.28 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 16.34 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 16.44 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 16.50 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 16.58 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 16.73 | 2.00 | 0.00 | 0.00 | 0.15 | 0.00 |
| 16.82 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 16.92 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 17.01 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 17.11 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 17.12 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 17.14 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 17.19 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 17.28 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 17.33 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 17.43 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 17.47 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 17.57 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 17.65 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 17.72 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 17.81 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 17.86 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 17.95 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 18.05 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 18.10 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 18.20 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 18.30 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 18.39 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 18.48 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 18.58 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 18.66 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 18.74 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 18.87 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 18.97 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 19.06 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 19.16 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 19.25 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 19.27 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 19.30 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 19.34 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 19.39 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 19.49 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 19.55 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 19.63 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 19.68 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 19.74 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 19.83 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 19.87 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 19.94 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 20.02 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 20.07 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 20.17 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 20.21 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 20.28 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 20.36 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 20.41 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 20.48 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 20.55 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20.60 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 20.70 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 20.74 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 20.79 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 20.89 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 20.96 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 21.04 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 21.13 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 21.22 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 21.29 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 21.35 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 21.37 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 21.42 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 21.47 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 21.48 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 21.52 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 21.57 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 21.62 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 21.66 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 21.71 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 21.76 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 21.81 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 21.85 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 21.91 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 21.95 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 22.00 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.05 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 22.10 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.15 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 22.19 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.24 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 22.29 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.34 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 22.39 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.43 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 22.48 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 22.55 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 22.62 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 22.63 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 22.72 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 22.77 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 22.83 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 22.91 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 22.96 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 23.02 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 23.10 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 23.16 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 23.20 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 23.26 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 23.35 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 23.39 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 23.48 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 23.54 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 23.63 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 23.69 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 23.78 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 23.87 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 23.88 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 23.93 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 24.02 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 24.04 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 24.05 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 24.15 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 24.20 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 24.30 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 24.40 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 24.46 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 24.54 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 24.64 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 24.73 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 24.78 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 24.88 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 24.94 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 25.02 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 25.12 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 25.17 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 25.27 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 25.36 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 25.43 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 25.50 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 25.60 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 25.64 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 25.67 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 25.71 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 25.79 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 25.93 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 26.03 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 26.13 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 26.24 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 26.37 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 |
| 26.47 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 26.60 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 |
| 26.71 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 26.85 | 2.00 | 0.00 | 0.00 | 0.15 | 0.00 |
| 26.95 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 27.04 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 27.09 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 27.19 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 27.23 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 27.33 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 27.40 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 27.47 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 27.57 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 27.66 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 27.77 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 27.86 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 27.96 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 28.06 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 28.15 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 28.25 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 28.34 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 28.44 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 28.54 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 28.62 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 28.71 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 28.77 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 28.86 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 28.91 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 28.97 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 29.04 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 29.10 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 29.15 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 29.25 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 29.34 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 29.38 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 29.48 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 29.55 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 29.63 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 29.72 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 29.82 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 29.88 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 29.96 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 30.06 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 30.13 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 30.18 | 0.34 | 0.00 | 0.00 | 0.04 | 0.05 | 30.28 | 0.35 | 0.00 | 0.00 | 0.10 | 0.11 |
| 30.37 | 0.36 | 0.00 | 0.00 | 0.09 | 0.10 | 30.47 | 0.37 | 0.00 | 0.00 | 0.10 | 0.10 |
| 30.57 | 0.38 | 0.00 | 0.00 | 0.10 | 0.10 | 30.66 | 0.40 | 0.00 | 0.00 | 0.10 | 0.10 |
| 30.74 | 0.41 | 0.00 | 0.00 | 0.08 | 0.07 | 30.82 | 0.42 | 0.00 | 0.00 | 0.08 | 0.07 |
| 30.90 | 0.43 | 0.00 | 0.00 | 0.08 | 0.07 | 31.01 | 0.45 | 0.00 | 0.00 | 0.11 | 0.10 |
| 31.10 | 0.48 | 0.00 | 0.00 | 0.08 | 0.07 | 31.19 | 0.51 | 0.00 | 0.00 | 0.09 | 0.07 |
| 31.28 | 0.54 | 0.00 | 0.00 | 0.09 | 0.07 | 31.35 | 0.58 | 0.00 | 0.00 | 0.06 | 0.04 |
| 31.43 | 0.60 | 0.00 | 0.00 | 0.09 | 0.06 | 31.53 | 0.63 | 0.00 | 0.00 | 0.09 | 0.05 |
| 31.60 | 0.57 | 0.00 | 0.00 | 0.07 | 0.05 | 31.67 | 0.52 | 0.00 | 0.00 | 0.08 | 0.06 |
| 31.77 | 0.48 | 0.00 | 0.00 | 0.10 | 0.08 | 31.84 | 0.50 | 0.00 | 0.00 | 0.07 | 0.05 |
| 31.91 | 0.51 | 0.00 | 0.00 | 0.07 | 0.05 | 31.98 | 0.53 | 0.00 | 0.00 | 0.07 | 0.05 |
| 31.98 | 0.55 | 0.00 | 0.00 | 0.01 | 0.01 | 32.04 | 0.56 | 0.00 | 0.00 | 0.05 | 0.04 |
| 32.12 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 32.16 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 32.27 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 32.33 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 32.41 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 32.50 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 32.58 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 32.66 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 32.74 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 32.84 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 32.90 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 32.98 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 33.08 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 33.14 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 33.22 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 33.32 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 33.37 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 33.47 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 33.56 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 33.63 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 33.71 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 33.81 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 33.90 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 33.95 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 34.04 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 34.14 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 34.17 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 34.20 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 34.26 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 34.35 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 34.43 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 34.49 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 34.59 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 34.69 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 34.73 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 34.83 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 34.90 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 34.98 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 35.07 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 35.16 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 35.26 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 35.33 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 35.40 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 35.50 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 35.57 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 35.65 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 35.71 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 35.79 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 35.85 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 35.94 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 35.99 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 36.08 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 36.17 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 36.24 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 36.33 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 36.42 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 36.52 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 36.61 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 36.70 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 36.78 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 36.85 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 36.87 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 36.91 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 36.97 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 37.06 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 37.12 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 37.20 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 37.27 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 37.35 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 37.44 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 37.49 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 37.59 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 37.64 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 37.70 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 37.78 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 37.83 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 37.92 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 37.97 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 38.07 | 0.90 | 0.00 | 0.00 | 0.09 | 0.01 | 38.14 | 0.94 | 0.00 | 0.00 | 0.07 | 0.01 |
| 38.22 | 0.99 | 0.00 | 0.00 | 0.08 | 0.00 | 38.31 | 1.06 | 0.00 | 0.00 | 0.09 | 0.00 |
| 38.41 | 1.16 | 0.00 | 0.00 | 0.09 | 0.00 | 38.52 | 1.27 | 0.00 | 0.00 | 0.11 | 0.00 |
| 38.64 | 1.33 | 0.00 | 0.00 | 0.13 | 0.00 | 38.74 | 1.34 | 0.00 | 0.00 | 0.10 | 0.00 |
| 38.80 | 1.33 | 0.00 | 0.00 | 0.06 | 0.00 | 38.89 | 1.31 | 0.00 | 0.00 | 0.08 | 0.00 |
| 38.94 | 1.36 | 0.00 | 0.00 | 0.05 | 0.00 | 39.03 | 1.37 | 0.00 | 0.00 | 0.09 | 0.00 |
| 39.13 | 1.39 | 0.00 | 0.00 | 0.10 | 0.00 | 39.23 | 1.38 | 0.00 | 0.00 | 0.10 | 0.00 |
| 39.35 | 1.34 | 0.00 | 0.00 | 0.12 | 0.00 | 39.42 | 1.26 | 0.00 | 0.00 | 0.07 | 0.00 |
| 39.51 | 1.14 | 0.00 | 0.00 | 0.09 | 0.00 | 39.60 | 1.02 | 0.00 | 0.00 | 0.09 | 0.00 |
| 39.70 | 0.93 | 0.00 | 0.00 | 0.10 | 0.01 | 39.78 | 0.86 | 0.00 | 0.00 | 0.07 | 0.01 |
| 39.90 | 0.80 | 0.00 | 0.00 | 0.12 | 0.03 | 39.99 | 0.74 | 0.00 | 0.00 | 0.09 | 0.03 |
| 40.09 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 40.18 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 40.23 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 40.33 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 40.43 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 40.52 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 40.61 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 40.69 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 40.80 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 40.87 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 40.95 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 40.97 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 41.01 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 41.07 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 41.15 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 41.26 | 0.44 | 0.00 | 0.00 | 0.11 | 0.07 |
| 41.35 | 0.45 | 0.00 | 0.00 | 0.09 | 0.06 | 41.47 | 0.46 | 0.00 | 0.00 | 0.12 | 0.08 |
| 41.59 | 0.47 | 0.00 | 0.00 | 0.12 | 0.07 | 41.69 | 0.48 | 0.00 | 0.00 | 0.10 | 0.06 |
| 41.78 | 0.49 | 0.00 | 0.00 | 0.09 | 0.05 | 41.88 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 41.98 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 42.08 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 42.16 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 42.24 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 42.31 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 42.45 | 0.48 | 0.00 | 0.00 | 0.14 | 0.08 |
| 42.55 | 0.47 | 0.00 | 0.00 | 0.09 | 0.05 | 42.60 | 0.47 | 0.00 | 0.00 | 0.05 | 0.03 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 42.70 | 0.48 | 0.00 | 0.00 | 0.10 | 0.06 | 42.81 | 0.51 | 0.00 | 0.00 | 0.11 | 0.06 |
| 42.89 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 42.98 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 43.08 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 43.17 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 43.27 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 43.37 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 43.50 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 43.61 | 0.35 | 0.00 | 0.00 | 0.10 | 0.07 |
| 43.74 | 0.35 | 0.00 | 0.00 | 0.13 | 0.09 | 43.79 | 0.37 | 0.00 | 0.00 | 0.05 | 0.03 |
| 43.86 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 43.94 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 44.00 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 44.08 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 44.17 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 44.27 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 44.42 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 44.52 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 44.61 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 44.71 | 0.40 | 0.00 | 0.00 | 0.09 | 0.06 |
| 44.85 | 0.40 | 0.00 | 0.00 | 0.14 | 0.08 | 44.95 | 0.42 | 0.00 | 0.00 | 0.10 | 0.06 |
| 45.09 | 0.45 | 0.00 | 0.00 | 0.14 | 0.07 | 45.19 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 45.33 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 45.42 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 45.57 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 45.68 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 45.81 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 45.92 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 46.05 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 46.16 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 46.17 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 46.23 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 46.29 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 46.34 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 46.42 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 46.48 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 46.52 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 46.60 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 46.67 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 46.74 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 46.82 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 46.88 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 46.96 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 47.06 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 47.15 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 47.24 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 47.35 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 47.49 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 47.58 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 47.73 | 2.00 | 0.00 | 0.00 | 0.15 | 0.00 |
| 47.83 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 47.87 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 47.89 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 47.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 48.02 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 48.07 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 48.12 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 48.18 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 48.26 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 48.31 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 48.38 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 48.46 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 48.52 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 48.60 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 48.68 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 48.74 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 48.82 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 48.89 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 48.99 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 49.05 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 49.12 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 49.18 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 49.27 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 49.32 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 49.42 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 49.48 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 49.56 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 49.66 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 49.76 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 49.85 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 49.99 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 50.09 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 50.21 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 | 50.24 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 50.29 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 50.38 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 50.47 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 50.52 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 50.62 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 50.66 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 50.76 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 50.83 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 50.91 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 51.00 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 51.06 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 51.15 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 51.24 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 51.31 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 51.39 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 51.48 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 51.58 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 51.68 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 51.77 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 51.90 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 |
| 52.01 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 52.11 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 52.26 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 52.30 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 52.33 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 52.35 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 52.40 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 52.45 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 52.50 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 52.55 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 52.60 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 52.65 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 52.71 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 52.77 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 52.82 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 52.88 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 52.93 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 52.98 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 53.03 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 53.08 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 53.12 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 53.17 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 53.23 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 53.28 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 53.37 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 53.42 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 53.46 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 53.53 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 53.61 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 53.62 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 53.65 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 53.67 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 53.70 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 53.74 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 53.76 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 53.80 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 53.84 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 53.90 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 53.91 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 53.95 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 53.96 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 53.98 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 53.99 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 54.01 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 54.02 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 54.03 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 54.04 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 54.05 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 54.09 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 54.10 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 54.13 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 54.14 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 54.19 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 54.19 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 54.24 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 54.29 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 54.33 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 54.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 54.39 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 54.43 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 54.48 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 54.52 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 54.58 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 54.62 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 54.65 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 54.67 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 54.71 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 54.77 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 54.81 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 54.85 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 54.86 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 54.87 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 54.91 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 54.96 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 55.00 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 55.01 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 55.05 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 55.10 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 55.12 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 55.13 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 55.14 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 55.19 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 55.20 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 55.25 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 55.29 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 55.33 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 55.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 55.48 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 55.57 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 55.63 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 55.72 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 55.80 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 55.86 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 55.97 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 56.01 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 56.06 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.11 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 56.15 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 56.20 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 56.27 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 56.27 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 56.30 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 56.33 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 56.35 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 56.40 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 56.41 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 56.44 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 56.49 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.54 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 56.58 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.59 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 56.64 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.69 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 56.73 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 56.78 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 56.83 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 56.88 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 56.89 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 56.95 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 57.01 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 57.07 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 57.11 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 57.17 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 57.26 | 1.89 | 0.00 | 0.00 | 0.09 | 0.00 |
| 57.31 | 1.67 | 0.00 | 0.00 | 0.05 | 0.00 | 57.37 | 1.46 | 0.00 | 0.00 | 0.06 | 0.00 |
| 57.45 | 1.26 | 0.00 | 0.00 | 0.08 | 0.00 | 57.51 | 1.03 | 0.00 | 0.00 | 0.06 | 0.00 |
| 57.53 | 0.89 | 0.00 | 0.00 | 0.02 | 0.00 | 57.59 | 0.80 | 0.00 | 0.00 | 0.05 | 0.00 |
| 57.63 | 0.79 | 0.00 | 0.00 | 0.05 | 0.00 | 57.68 | 0.76 | 0.00 | 0.00 | 0.05 | 0.00 |
| 57.73 | 0.74 | 0.00 | 0.00 | 0.05 | 0.01 | 57.78 | 0.71 | 0.00 | 0.00 | 0.05 | 0.01 |
| 57.86 | 0.64 | 0.00 | 0.00 | 0.08 | 0.01 | 57.92 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 57.98 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 58.06 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 58.12 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 58.21 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 58.26 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 58.35 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 58.41 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 58.50 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 58.56 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 58.64 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 58.73 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 58.80 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 58.84 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 58.85 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 58.93 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 58.98 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 59.02 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 59.12 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 59.17 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 59.27 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 59.31 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 59.41 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 59.46 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 59.55 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 59.65 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 59.70 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 59.80 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 59.89 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 59.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 60.01 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 60.02 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 60.08 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 60.12 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 60.17 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 60.27 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 60.31 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 60.37 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 60.46 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 60.51 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 60.61 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 60.65 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 60.75 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 60.81 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 60.89 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 60.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 61.03 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 61.09 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 61.19 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 61.24 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 61.33 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 61.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 61.47 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 61.53 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 61.62 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 61.70 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 61.77 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 61.86 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 61.95 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 61.97 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 62.01 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 62.10 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 62.24 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 62.34 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 62.49 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 62.54 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 62.66 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 |
| 62.74 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 62.87 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 |
| 62.92 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 63.03 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 63.15 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 | 63.26 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 63.37 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 63.45 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 63.54 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 63.61 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 63.69 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 63.79 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 63.89 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 63.98 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 64.07 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 64.15 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 64.23 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 64.26 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 64.29 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 64.33 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 64.43 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 64.47 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 64.53 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 64.62 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 64.72 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 64.78 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 64.86 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 64.96 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 65.06 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 65.11 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 65.21 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 65.31 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 65.40 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 65.50 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 65.58 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 65.68 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 65.78 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 65.84 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 65.86 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 65.87 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 65.98 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 66.10 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 |
| 66.21 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 66.34 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 |
| 66.48 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 66.62 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 66.68 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 66.87 | 2.00 | 0.00 | 0.00 | 0.19 | 0.00 |
| 66.96 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 67.11 | 2.00 | 0.00 | 0.00 | 0.15 | 0.00 |
| 67.21 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 67.35 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 67.45 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 67.59 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 67.68 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 67.83 | 2.00 | 0.00 | 0.00 | 0.15 | 0.00 |
| 67.92 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 68.02 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 68.07 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 68.16 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 68.26 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 68.35 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 68.45 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 68.55 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 68.65 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 68.78 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 |
| 68.78 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 68.79 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 68.83 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 68.93 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 68.98 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 69.04 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 69.12 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 69.22 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 69.28 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 69.36 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 69.45 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 69.60 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 69.70 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 69.80 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 69.89 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 69.98 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 70.08 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 70.18 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 70.32 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 70.42 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 70.54 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 | 70.66 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 |
| 70.75 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 70.80 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 70.89 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 70.99 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 71.08 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 71.17 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 71.23 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 71.33 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 71.42 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 71.52 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 71.58 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 71.67 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 71.81 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 71.82 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 71.86 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 71.91 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 71.97 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 72.05 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 72.10 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 72.20 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 72.25 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 72.34 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 72.44 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 72.53 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 72.63 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 72.69 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 72.82 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 72.92 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 73.06 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 73.16 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 73.30 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 73.35 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 73.38 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 73.47 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 73.53 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 73.62 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 73.71 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 73.77 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 73.86 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 73.96 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 74.06 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 74.13 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 74.24 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 74.34 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 74.44 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 74.58 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 74.68 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 74.80 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 |
| 74.92 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 | 75.07 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 75.08 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 75.11 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 75.16 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 75.25 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 75.32 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 75.40 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 75.50 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 75.59 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 75.69 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 75.78 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 75.88 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 75.96 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 76.05 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 76.14 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 76.26 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 | 76.36 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 76.41 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 76.51 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 76.65 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 76.72 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 76.79 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 76.89 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 76.98 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 77.08 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 77.18 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 77.28 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 77.37 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 77.42 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 77.42 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 77.44 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 77.48 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 77.52 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 77.54 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 77.57 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 77.62 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 77.65 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 77.67 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 77.71 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 77.71 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 77.76 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 77.81 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 77.90 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 77.95 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 78.01 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 78.10 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 78.16 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 78.24 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 78.29 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 78.39 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 78.47 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 78.53 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 78.62 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 78.68 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 78.69 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 78.78 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 78.81 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 78.92 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 79.03 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 79.16 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 79.26 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 79.35 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 79.45 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 79.54 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 79.64 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 79.74 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 79.88 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 79.98 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 80.12 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 80.22 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 80.36 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 80.46 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 80.60 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |
| 80.70 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 80.83 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 |
| 80.94 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 81.01 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 81.04 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 | 81.09 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 81.13 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 81.18 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 81.23 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 81.28 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 81.33 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 81.37 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 81.42 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 81.47 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 81.52 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 81.56 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 81.61 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 81.64 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 81.70 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 81.75 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 81.79 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 81.82 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 81.86 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 81.91 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 81.95 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 82.00 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 82.09 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 82.15 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 82.19 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 82.26 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 82.34 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 82.39 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 82.48 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 82.58 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 82.62 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 82.70 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 82.77 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 82.87 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 82.96 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 83.06 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 83.16 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 83.25 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 83.34 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 83.44 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 83.54 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 83.64 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 83.73 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 83.83 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 83.85 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 83.89 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 83.94 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 84.04 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 84.09 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 84.13 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 84.18 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 84.25 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 84.33 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 84.37 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 84.46 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 84.52 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 84.57 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 84.67 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 84.71 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 84.81 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 84.86 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 84.91 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 85.00 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 85.05 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 85.15 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 85.19 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 85.29 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 85.35 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 85.42 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 85.48 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 85.55 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 85.63 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 85.68 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 85.77 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 85.82 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 85.89 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 85.96 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 86.03 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 86.11 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 86.16 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 86.25 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 86.36 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 86.50 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 | 86.51 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |
| 86.52 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 86.57 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 86.65 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 86.71 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 86.80 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 86.90 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 86.99 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 87.04 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 87.14 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 87.19 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 87.28 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 87.38 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 87.43 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 87.52 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 87.61 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 87.66 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 87.76 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 87.84 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 87.91 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 88.00 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 88.11 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 88.19 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 88.25 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 88.34 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 88.44 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 88.54 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 88.64 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 88.72 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 88.82 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 88.91 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 89.01 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 89.10 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 89.19 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 89.30 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 89.39 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 89.49 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 89.59 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 89.69 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 89.73 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 89.78 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 89.83 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 89.88 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 89.93 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 90.00 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 90.07 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 90.12 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 90.22 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 90.27 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 90.36 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 90.46 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 90.50 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 90.61 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 90.66 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 90.75 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 90.84 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 90.89 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 90.99 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 91.04 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 91.14 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 91.22 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 91.28 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 91.37 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 91.47 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 91.61 | 2.00 | 0.00 | 0.00 | 0.14 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 91.71 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 91.81 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 91.87 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 92.00 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 |
| 92.10 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 92.20 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 92.33 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 92.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 92.43 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 92.48 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 92.56 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 92.63 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 92.67 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 92.72 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 92.77 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 92.86 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 92.92 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 92.97 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 93.05 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 93.10 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 93.16 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 93.25 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 93.35 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 93.40 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 93.49 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 93.56 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 93.64 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 93.73 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 93.83 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 93.88 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 93.97 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 94.07 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 94.17 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 94.26 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 94.36 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 94.45 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 94.55 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 94.64 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 94.72 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 94.74 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 94.77 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 94.85 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 94.90 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 94.95 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 95.01 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 95.09 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 95.14 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 95.23 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 95.29 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 95.38 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 95.43 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 95.52 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 95.57 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 95.67 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 95.77 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 95.86 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 95.95 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 96.03 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 96.11 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 96.20 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 96.30 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 96.39 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 96.50 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 96.59 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 96.69 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 | 96.78 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 96.87 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 96.98 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 97.02 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 97.06 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 97.12 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 97.16 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 |
| 97.21 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 97.27 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 97.33 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 97.40 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 97.45 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 97.50 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 97.58 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 97.65 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 97.69 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 97.74 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 97.81 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 97.88 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 97.93 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 98.03 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 98.15 | 2.00 | 0.00 | 0.00 | 0.12 | 0.00 | 98.21 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 98.32 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 | 98.42 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 98.47 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 98.57 | 2.00 | 0.00 | 0.00 | 0.10 | 0.00 |
| 98.70 | 2.00 | 0.00 | 0.00 | 0.13 | 0.00 | 98.78 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 |
| 98.85 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 98.86 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 |

**:: Liquefaction Potential Index calculation data :: (continued)**

| Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI | Depth (ft) | FS | $F_L$ | $w_z$ | $d_z$ | LPI |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 98.92 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 | 98.98 | 2.00 | 0.00 | 0.00 | 0.06 | 0.00 |
| 99.03 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 99.11 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 99.18 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 99.23 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 99.32 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 99.37 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 99.45 | 2.00 | 0.00 | 0.00 | 0.08 | 0.00 | 99.56 | 2.00 | 0.00 | 0.00 | 0.11 | 0.00 |
| 99.64 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 | 99.71 | 2.00 | 0.00 | 0.00 | 0.07 | 0.00 |
| 99.75 | 2.00 | 0.00 | 0.00 | 0.04 | 0.00 | 99.90 | 2.00 | 0.00 | 0.00 | 0.15 | 0.00 |
| 99.95 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 100.04 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 |
| 100.14 | 2.00 | 0.00 | 0.00 | 0.09 | 0.00 | 100.14 | 2.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.15 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 100.19 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 100.21 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 100.24 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 100.28 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 100.31 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |
| 100.33 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 | 100.38 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 100.39 | 2.00 | 0.00 | 0.00 | 0.01 | 0.00 | 100.43 | 2.00 | 0.00 | 0.00 | 0.03 | 0.00 |
| 100.48 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 100.53 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 |
| 100.57 | 2.00 | 0.00 | 0.00 | 0.05 | 0.00 | 100.60 | 2.00 | 0.00 | 0.00 | 0.02 | 0.00 |

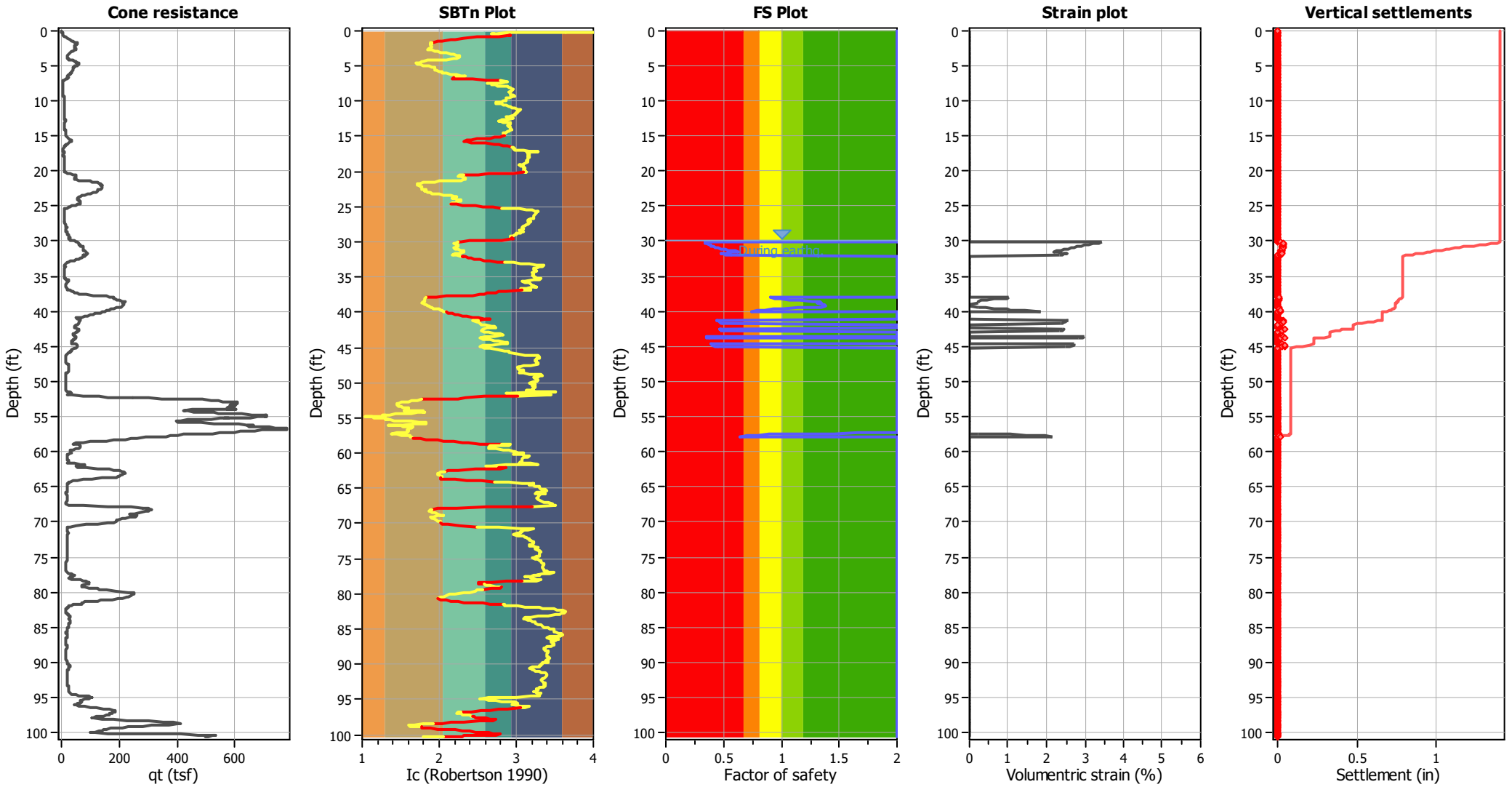
**Overall liquefaction potential: 2.86**

LPI = 0.00 - Liquefaction risk very low
LPI between 0.00 and 5.00 - Liquefaction risk low
LPI between 5.00 and 15.00 - Liquefaction risk high
LPI > 15.00 - Liquefaction risk very high

**Abbreviations**

FS: Calculated factor of safety for test point
$F_L$: 1 - FS
$w_z$: Function value of the extend of soil liquefaction according to depth
$d_z$: Layer thickness (ft)
LPI: Liquefaction potential index value for test point

## Estimation of post-earthquake settlements




**Abbreviations**

| | |
|---|---|
| $q_t$: | Total cone resistance (cone resistance $q_c$ corrected for pore water effects) |
| $I_c$: | Soil Behaviour Type Index |
| FS: | Calculated Factor of Safety against liquefaction |
| Volumentric strain: | Post-liquefaction volumentric strain |

**:: Post-earthquake settlement due to soil liquefaction ::**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 30.06 | 59.16 | 2.00 | 0.00 | 1.00 | 0.00 | 30.13 | 60.99 | 2.00 | 0.00 | 1.00 | 0.00 |
| 30.18 | 62.30 | 0.34 | 3.44 | 1.00 | 0.02 | 30.28 | 64.44 | 0.35 | 3.35 | 1.00 | 0.04 |
| 30.37 | 67.53 | 0.36 | 3.22 | 1.00 | 0.04 | 30.47 | 71.05 | 0.37 | 3.09 | 1.00 | 0.04 |
| 30.57 | 73.87 | 0.38 | 3.00 | 1.00 | 0.04 | 30.66 | 76.12 | 0.40 | 2.92 | 1.00 | 0.03 |
| 30.74 | 78.31 | 0.41 | 2.86 | 1.00 | 0.03 | 30.82 | 80.52 | 0.42 | 2.79 | 1.00 | 0.03 |
| 30.90 | 82.93 | 0.43 | 2.72 | 1.00 | 0.03 | 31.01 | 85.67 | 0.45 | 2.65 | 1.00 | 0.04 |
| 31.10 | 89.47 | 0.48 | 2.56 | 1.00 | 0.03 | 31.19 | 93.96 | 0.51 | 2.46 | 1.00 | 0.03 |
| 31.28 | 98.21 | 0.54 | 2.37 | 1.00 | 0.03 | 31.35 | 101.82 | 0.58 | 2.30 | 1.00 | 0.02 |
| 31.43 | 104.59 | 0.60 | 2.25 | 1.00 | 0.02 | 31.53 | 107.28 | 0.63 | 2.21 | 1.00 | 0.02 |
| 31.60 | 101.10 | 0.57 | 2.32 | 1.00 | 0.02 | 31.67 | 95.74 | 0.52 | 2.42 | 1.00 | 0.02 |
| 31.77 | 91.18 | 0.48 | 2.52 | 1.00 | 0.03 | 31.84 | 93.40 | 0.50 | 2.47 | 1.00 | 0.02 |
| 31.91 | 95.19 | 0.51 | 2.43 | 1.00 | 0.02 | 31.98 | 97.23 | 0.53 | 2.39 | 1.00 | 0.02 |
| 31.98 | 99.23 | 0.55 | 2.35 | 1.00 | 0.00 | 32.04 | 100.65 | 0.56 | 2.32 | 1.00 | 0.02 |
| 32.12 | 102.19 | 2.00 | 0.00 | 1.00 | 0.00 | 32.16 | 105.63 | 2.00 | 0.00 | 1.00 | 0.00 |
| 32.27 | 108.77 | 2.00 | 0.00 | 1.00 | 0.00 | 32.33 | 111.51 | 2.00 | 0.00 | 1.00 | 0.00 |
| 32.41 | 112.40 | 2.00 | 0.00 | 1.00 | 0.00 | 32.50 | 111.66 | 2.00 | 0.00 | 1.00 | 0.00 |
| 32.58 | 110.12 | 2.00 | 0.00 | 1.00 | 0.00 | 32.66 | 108.68 | 2.00 | 0.00 | 1.00 | 0.00 |
| 32.74 | 107.79 | 2.00 | 0.00 | 1.00 | 0.00 | 32.84 | 107.96 | 2.00 | 0.00 | 1.00 | 0.00 |
| 32.90 | 107.62 | 2.00 | 0.00 | 1.00 | 0.00 | 32.98 | 104.08 | 2.00 | 0.00 | 1.00 | 0.00 |
| 33.08 | 101.84 | 2.00 | 0.00 | 1.00 | 0.00 | 33.14 | 99.50 | 2.00 | 0.00 | 1.00 | 0.00 |
| 33.22 | 96.06 | 2.00 | 0.00 | 1.00 | 0.00 | 33.32 | 91.43 | 2.00 | 0.00 | 1.00 | 0.00 |
| 33.37 | 85.28 | 2.00 | 0.00 | 1.00 | 0.00 | 33.47 | 81.70 | 2.00 | 0.00 | 1.00 | 0.00 |
| 33.56 | 79.85 | 2.00 | 0.00 | 1.00 | 0.00 | 33.63 | 80.15 | 2.00 | 0.00 | 1.00 | 0.00 |
| 33.71 | 78.37 | 2.00 | 0.00 | 1.00 | 0.00 | 33.81 | 72.19 | 2.00 | 0.00 | 1.00 | 0.00 |
| 33.90 | 65.65 | 2.00 | 0.00 | 1.00 | 0.00 | 33.95 | 60.28 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.04 | 59.84 | 2.00 | 0.00 | 1.00 | 0.00 | 34.14 | 59.54 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.17 | 59.63 | 2.00 | 0.00 | 1.00 | 0.00 | 34.20 | 59.92 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.26 | 60.14 | 2.00 | 0.00 | 1.00 | 0.00 | 34.35 | 59.91 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.43 | 59.45 | 2.00 | 0.00 | 1.00 | 0.00 | 34.49 | 58.59 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.59 | 57.25 | 2.00 | 0.00 | 1.00 | 0.00 | 34.69 | 55.91 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.73 | 54.88 | 2.00 | 0.00 | 1.00 | 0.00 | 34.83 | 54.34 | 2.00 | 0.00 | 1.00 | 0.00 |
| 34.90 | 54.48 | 2.00 | 0.00 | 1.00 | 0.00 | 34.98 | 55.47 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.07 | 58.28 | 2.00 | 0.00 | 1.00 | 0.00 | 35.16 | 64.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.26 | 76.48 | 2.00 | 0.00 | 1.00 | 0.00 | 35.33 | 89.71 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.40 | 101.03 | 2.00 | 0.00 | 1.00 | 0.00 | 35.50 | 106.70 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.57 | 109.72 | 2.00 | 0.00 | 1.00 | 0.00 | 35.65 | 112.36 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.71 | 115.22 | 2.00 | 0.00 | 1.00 | 0.00 | 35.79 | 116.27 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.85 | 113.90 | 2.00 | 0.00 | 1.00 | 0.00 | 35.94 | 109.71 | 2.00 | 0.00 | 1.00 | 0.00 |
| 35.99 | 103.66 | 2.00 | 0.00 | 1.00 | 0.00 | 36.08 | 95.94 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.17 | 88.35 | 2.00 | 0.00 | 1.00 | 0.00 | 36.24 | 82.76 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.33 | 81.11 | 2.00 | 0.00 | 1.00 | 0.00 | 36.42 | 82.08 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.52 | 77.16 | 2.00 | 0.00 | 1.00 | 0.00 | 36.61 | 74.88 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.70 | 76.79 | 2.00 | 0.00 | 1.00 | 0.00 | 36.78 | 88.43 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.85 | 99.18 | 2.00 | 0.00 | 1.00 | 0.00 | 36.87 | 103.88 | 2.00 | 0.00 | 1.00 | 0.00 |
| 36.91 | 105.17 | 2.00 | 0.00 | 1.00 | 0.00 | 36.97 | 104.77 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.06 | 105.20 | 2.00 | 0.00 | 1.00 | 0.00 | 37.12 | 107.91 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.20 | 112.33 | 2.00 | 0.00 | 1.00 | 0.00 | 37.27 | 114.30 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.35 | 112.42 | 2.00 | 0.00 | 1.00 | 0.00 | 37.44 | 108.21 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 37.49 | 102.76 | 2.00 | 0.00 | 1.00 | 0.00 | 37.59 | 95.81 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.64 | 90.11 | 2.00 | 0.00 | 1.00 | 0.00 | 37.70 | 94.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.78 | 108.37 | 2.00 | 0.00 | 1.00 | 0.00 | 37.83 | 120.19 | 2.00 | 0.00 | 1.00 | 0.00 |
| 37.92 | 126.68 | 2.00 | 0.00 | 1.00 | 0.00 | 37.97 | 130.53 | 2.00 | 0.00 | 1.00 | 0.00 |
| 38.07 | 133.13 | 0.90 | 1.03 | 1.00 | 0.01 | 38.14 | 135.64 | 0.94 | 1.00 | 1.00 | 0.01 |
| 38.22 | 138.68 | 0.99 | 0.65 | 1.00 | 0.01 | 38.31 | 143.23 | 1.06 | 0.44 | 1.00 | 0.00 |
| 38.41 | 148.66 | 1.16 | 0.31 | 1.00 | 0.00 | 38.52 | 154.32 | 1.27 | 0.21 | 1.00 | 0.00 |
| 38.64 | 157.41 | 1.33 | 0.21 | 1.00 | 0.00 | 38.74 | 158.10 | 1.34 | 0.21 | 1.00 | 0.00 |
| 38.80 | 157.57 | 1.33 | 0.21 | 1.00 | 0.00 | 38.89 | 156.57 | 1.31 | 0.21 | 1.00 | 0.00 |
| 38.94 | 158.84 | 1.36 | 0.00 | 1.00 | 0.00 | 39.03 | 159.69 | 1.37 | 0.00 | 1.00 | 0.00 |
| 39.13 | 160.46 | 1.39 | 0.00 | 1.00 | 0.00 | 39.23 | 160.12 | 1.38 | 0.00 | 1.00 | 0.00 |
| 39.35 | 158.27 | 1.34 | 0.21 | 1.00 | 0.00 | 39.42 | 154.08 | 1.26 | 0.21 | 1.00 | 0.00 |
| 39.51 | 148.22 | 1.14 | 0.43 | 1.00 | 0.00 | 39.60 | 141.37 | 1.02 | 0.64 | 1.00 | 0.01 |
| 39.70 | 135.85 | 0.93 | 1.00 | 1.00 | 0.01 | 39.78 | 130.75 | 0.86 | 1.05 | 1.00 | 0.01 |
| 39.90 | 126.28 | 0.80 | 1.45 | 1.00 | 0.02 | 39.99 | 121.65 | 0.74 | 1.86 | 1.00 | 0.02 |
| 40.09 | 117.75 | 2.00 | 0.00 | 1.00 | 0.00 | 40.18 | 114.33 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.23 | 111.30 | 2.00 | 0.00 | 1.00 | 0.00 | 40.33 | 108.90 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.43 | 107.17 | 2.00 | 0.00 | 1.00 | 0.00 | 40.52 | 107.68 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.61 | 106.53 | 2.00 | 0.00 | 1.00 | 0.00 | 40.69 | 106.96 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.80 | 106.21 | 2.00 | 0.00 | 1.00 | 0.00 | 40.87 | 107.20 | 2.00 | 0.00 | 1.00 | 0.00 |
| 40.95 | 107.50 | 2.00 | 0.00 | 1.00 | 0.00 | 40.97 | 105.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 41.01 | 101.77 | 2.00 | 0.00 | 1.00 | 0.00 | 41.07 | 94.92 | 2.00 | 0.00 | 1.00 | 0.00 |
| 41.15 | 90.47 | 2.00 | 0.00 | 1.00 | 0.00 | 41.26 | 89.74 | 0.44 | 2.55 | 1.00 | 0.03 |
| 41.35 | 91.40 | 0.45 | 2.52 | 1.00 | 0.03 | 41.47 | 93.27 | 0.46 | 2.47 | 1.00 | 0.04 |
| 41.59 | 94.19 | 0.47 | 2.45 | 1.00 | 0.03 | 41.69 | 95.29 | 0.48 | 2.43 | 1.00 | 0.03 |
| 41.78 | 97.63 | 0.49 | 2.38 | 1.00 | 0.03 | 41.88 | 100.94 | 2.00 | 0.00 | 1.00 | 0.00 |
| 41.98 | 103.21 | 2.00 | 0.00 | 1.00 | 0.00 | 42.08 | 103.54 | 2.00 | 0.00 | 1.00 | 0.00 |
| 42.16 | 102.01 | 2.00 | 0.00 | 1.00 | 0.00 | 42.24 | 99.69 | 2.00 | 0.00 | 1.00 | 0.00 |
| 42.31 | 97.23 | 2.00 | 0.00 | 1.00 | 0.00 | 42.45 | 95.61 | 0.48 | 2.42 | 1.00 | 0.04 |
| 42.55 | 94.91 | 0.47 | 2.44 | 1.00 | 0.03 | 42.60 | 95.14 | 0.47 | 2.43 | 1.00 | 0.01 |
| 42.70 | 96.60 | 0.48 | 2.40 | 1.00 | 0.03 | 42.81 | 99.43 | 0.51 | 2.35 | 1.00 | 0.03 |
| 42.89 | 103.15 | 2.00 | 0.00 | 1.00 | 0.00 | 42.98 | 106.61 | 2.00 | 0.00 | 1.00 | 0.00 |
| 43.08 | 108.99 | 2.00 | 0.00 | 1.00 | 0.00 | 43.17 | 109.35 | 2.00 | 0.00 | 1.00 | 0.00 |
| 43.27 | 107.03 | 2.00 | 0.00 | 1.00 | 0.00 | 43.37 | 95.48 | 2.00 | 0.00 | 1.00 | 0.00 |
| 43.50 | 83.44 | 2.00 | 0.00 | 1.00 | 0.00 | 43.61 | 73.95 | 0.35 | 2.99 | 1.00 | 0.04 |
| 43.74 | 75.29 | 0.35 | 2.95 | 1.00 | 0.05 | 43.79 | 79.06 | 0.37 | 2.83 | 1.00 | 0.02 |
| 43.86 | 84.59 | 2.00 | 0.00 | 1.00 | 0.00 | 43.94 | 91.16 | 2.00 | 0.00 | 1.00 | 0.00 |
| 44.00 | 98.08 | 2.00 | 0.00 | 1.00 | 0.00 | 44.08 | 103.37 | 2.00 | 0.00 | 1.00 | 0.00 |
| 44.17 | 106.26 | 2.00 | 0.00 | 1.00 | 0.00 | 44.27 | 105.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 44.42 | 100.72 | 2.00 | 0.00 | 1.00 | 0.00 | 44.52 | 95.03 | 2.00 | 0.00 | 1.00 | 0.00 |
| 44.61 | 87.72 | 2.00 | 0.00 | 1.00 | 0.00 | 44.71 | 83.46 | 0.40 | 2.71 | 1.00 | 0.03 |
| 44.85 | 83.87 | 0.40 | 2.70 | 1.00 | 0.05 | 44.95 | 88.11 | 0.42 | 2.59 | 1.00 | 0.03 |
| 45.09 | 92.06 | 0.45 | 2.50 | 1.00 | 0.04 | 45.19 | 95.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 45.33 | 98.48 | 2.00 | 0.00 | 1.00 | 0.00 | 45.42 | 100.02 | 2.00 | 0.00 | 1.00 | 0.00 |
| 45.57 | 98.64 | 2.00 | 0.00 | 1.00 | 0.00 | 45.68 | 94.66 | 2.00 | 0.00 | 1.00 | 0.00 |
| 45.81 | 87.72 | 2.00 | 0.00 | 1.00 | 0.00 | 45.92 | 82.93 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.05 | 82.51 | 2.00 | 0.00 | 1.00 | 0.00 | 46.16 | 86.12 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.17 | 85.57 | 2.00 | 0.00 | 1.00 | 0.00 | 46.23 | 84.09 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 46.29 | 82.02 | 2.00 | 0.00 | 1.00 | 0.00 | 46.34 | 78.81 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.42 | 74.90 | 2.00 | 0.00 | 1.00 | 0.00 | 46.48 | 70.80 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.52 | 67.86 | 2.00 | 0.00 | 1.00 | 0.00 | 46.60 | 65.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.67 | 64.21 | 2.00 | 0.00 | 1.00 | 0.00 | 46.74 | 63.02 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.82 | 61.88 | 2.00 | 0.00 | 1.00 | 0.00 | 46.88 | 61.07 | 2.00 | 0.00 | 1.00 | 0.00 |
| 46.96 | 60.61 | 2.00 | 0.00 | 1.00 | 0.00 | 47.06 | 60.52 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.15 | 61.03 | 2.00 | 0.00 | 1.00 | 0.00 | 47.24 | 65.10 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.35 | 75.39 | 2.00 | 0.00 | 1.00 | 0.00 | 47.49 | 80.67 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.58 | 82.65 | 2.00 | 0.00 | 1.00 | 0.00 | 47.73 | 80.95 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.83 | 81.84 | 2.00 | 0.00 | 1.00 | 0.00 | 47.87 | 83.19 | 2.00 | 0.00 | 1.00 | 0.00 |
| 47.89 | 82.12 | 2.00 | 0.00 | 1.00 | 0.00 | 47.94 | 81.59 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.02 | 80.90 | 2.00 | 0.00 | 1.00 | 0.00 | 48.07 | 81.07 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.12 | 82.45 | 2.00 | 0.00 | 1.00 | 0.00 | 48.18 | 84.09 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.26 | 85.42 | 2.00 | 0.00 | 1.00 | 0.00 | 48.31 | 84.77 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.38 | 82.58 | 2.00 | 0.00 | 1.00 | 0.00 | 48.46 | 79.31 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.52 | 75.99 | 2.00 | 0.00 | 1.00 | 0.00 | 48.60 | 72.40 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.68 | 69.64 | 2.00 | 0.00 | 1.00 | 0.00 | 48.74 | 67.76 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.82 | 67.24 | 2.00 | 0.00 | 1.00 | 0.00 | 48.89 | 66.41 | 2.00 | 0.00 | 1.00 | 0.00 |
| 48.99 | 64.98 | 2.00 | 0.00 | 1.00 | 0.00 | 49.05 | 62.48 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.12 | 59.74 | 2.00 | 0.00 | 1.00 | 0.00 | 49.18 | 57.20 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.27 | 55.71 | 2.00 | 0.00 | 1.00 | 0.00 | 49.32 | 54.42 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.42 | 53.88 | 2.00 | 0.00 | 1.00 | 0.00 | 49.48 | 53.63 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.56 | 54.09 | 2.00 | 0.00 | 1.00 | 0.00 | 49.66 | 55.25 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.76 | 56.33 | 2.00 | 0.00 | 1.00 | 0.00 | 49.85 | 54.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 49.99 | 51.28 | 2.00 | 0.00 | 1.00 | 0.00 | 50.09 | 49.07 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.21 | 50.39 | 2.00 | 0.00 | 1.00 | 0.00 | 50.24 | 50.47 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.29 | 49.66 | 2.00 | 0.00 | 1.00 | 0.00 | 50.38 | 48.82 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.47 | 48.36 | 2.00 | 0.00 | 1.00 | 0.00 | 50.52 | 48.61 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.62 | 49.09 | 2.00 | 0.00 | 1.00 | 0.00 | 50.66 | 49.58 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.76 | 50.11 | 2.00 | 0.00 | 1.00 | 0.00 | 50.83 | 51.29 | 2.00 | 0.00 | 1.00 | 0.00 |
| 50.91 | 53.36 | 2.00 | 0.00 | 1.00 | 0.00 | 51.00 | 55.29 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.06 | 56.99 | 2.00 | 0.00 | 1.00 | 0.00 | 51.15 | 61.08 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.24 | 67.57 | 2.00 | 0.00 | 1.00 | 0.00 | 51.31 | 75.27 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.39 | 80.15 | 2.00 | 0.00 | 1.00 | 0.00 | 51.48 | 82.64 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.58 | 87.30 | 2.00 | 0.00 | 1.00 | 0.00 | 51.68 | 91.85 | 2.00 | 0.00 | 1.00 | 0.00 |
| 51.77 | 100.06 | 2.00 | 0.00 | 1.00 | 0.00 | 51.90 | 106.47 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.01 | 110.20 | 2.00 | 0.00 | 1.00 | 0.00 | 52.11 | 121.05 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.26 | 131.90 | 2.00 | 0.00 | 1.00 | 0.00 | 52.30 | 146.55 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.33 | 162.63 | 2.00 | 0.00 | 1.00 | 0.00 | 52.35 | 192.22 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.40 | 209.95 | 2.00 | 0.00 | 1.00 | 0.00 | 52.45 | 216.58 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.50 | 229.89 | 2.00 | 0.00 | 1.00 | 0.00 | 52.55 | 248.98 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.60 | 273.15 | 2.00 | 0.00 | 1.00 | 0.00 | 52.65 | 289.64 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.71 | 297.95 | 2.00 | 0.00 | 1.00 | 0.00 | 52.77 | 303.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.82 | 312.99 | 2.00 | 0.00 | 1.00 | 0.00 | 52.88 | 323.84 | 2.00 | 0.00 | 1.00 | 0.00 |
| 52.93 | 331.46 | 2.00 | 0.00 | 1.00 | 0.00 | 52.98 | 338.95 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.03 | 340.39 | 2.00 | 0.00 | 1.00 | 0.00 | 53.08 | 340.01 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.12 | 335.78 | 2.00 | 0.00 | 1.00 | 0.00 | 53.17 | 333.99 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.23 | 335.19 | 2.00 | 0.00 | 1.00 | 0.00 | 53.28 | 332.45 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 53.37 | 327.80 | 2.00 | 0.00 | 1.00 | 0.00 | 53.42 | 325.17 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.46 | 326.50 | 2.00 | 0.00 | 1.00 | 0.00 | 53.53 | 333.09 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.61 | 331.84 | 2.00 | 0.00 | 1.00 | 0.00 | 53.62 | 323.39 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.65 | 318.67 | 2.00 | 0.00 | 1.00 | 0.00 | 53.67 | 317.12 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.70 | 323.95 | 2.00 | 0.00 | 1.00 | 0.00 | 53.74 | 323.26 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.76 | 323.74 | 2.00 | 0.00 | 1.00 | 0.00 | 53.80 | 322.06 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.84 | 320.07 | 2.00 | 0.00 | 1.00 | 0.00 | 53.90 | 320.12 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.91 | 315.61 | 2.00 | 0.00 | 1.00 | 0.00 | 53.95 | 317.38 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.96 | 320.83 | 2.00 | 0.00 | 1.00 | 0.00 | 53.98 | 332.48 | 2.00 | 0.00 | 1.00 | 0.00 |
| 53.99 | 333.50 | 2.00 | 0.00 | 1.00 | 0.00 | 54.01 | 327.46 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.02 | 320.31 | 2.00 | 0.00 | 1.00 | 0.00 | 54.03 | 305.74 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.04 | 276.21 | 2.00 | 0.00 | 1.00 | 0.00 | 54.05 | 260.14 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.09 | 254.46 | 2.00 | 0.00 | 1.00 | 0.00 | 54.10 | 254.57 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.13 | 254.64 | 2.00 | 0.00 | 1.00 | 0.00 | 54.14 | 254.59 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.19 | 255.77 | 2.00 | 0.00 | 1.00 | 0.00 | 54.19 | 258.95 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.24 | 259.93 | 2.00 | 0.00 | 1.00 | 0.00 | 54.29 | 249.88 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.33 | 261.31 | 2.00 | 0.00 | 1.00 | 0.00 | 54.38 | 272.80 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.39 | 282.62 | 2.00 | 0.00 | 1.00 | 0.00 | 54.43 | 291.66 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.48 | 299.32 | 2.00 | 0.00 | 1.00 | 0.00 | 54.52 | 306.76 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.58 | 316.20 | 2.00 | 0.00 | 1.00 | 0.00 | 54.62 | 323.46 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.65 | 333.00 | 2.00 | 0.00 | 1.00 | 0.00 | 54.67 | 343.41 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.71 | 362.60 | 2.00 | 0.00 | 1.00 | 0.00 | 54.77 | 374.21 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.81 | 387.19 | 2.00 | 0.00 | 1.00 | 0.00 | 54.85 | 387.70 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.86 | 390.48 | 2.00 | 0.00 | 1.00 | 0.00 | 54.87 | 387.26 | 2.00 | 0.00 | 1.00 | 0.00 |
| 54.91 | 387.35 | 2.00 | 0.00 | 1.00 | 0.00 | 54.96 | 389.17 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.00 | 386.89 | 2.00 | 0.00 | 1.00 | 0.00 | 55.01 | 382.82 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.05 | 373.47 | 2.00 | 0.00 | 1.00 | 0.00 | 55.10 | 357.87 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.12 | 331.72 | 2.00 | 0.00 | 1.00 | 0.00 | 55.13 | 313.58 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.14 | 309.22 | 2.00 | 0.00 | 1.00 | 0.00 | 55.19 | 316.75 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.20 | 316.38 | 2.00 | 0.00 | 1.00 | 0.00 | 55.25 | 308.48 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.29 | 299.55 | 2.00 | 0.00 | 1.00 | 0.00 | 55.33 | 284.92 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.38 | 263.59 | 2.00 | 0.00 | 1.00 | 0.00 | 55.48 | 240.38 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.57 | 227.87 | 2.00 | 0.00 | 1.00 | 0.00 | 55.63 | 237.94 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.72 | 244.53 | 2.00 | 0.00 | 1.00 | 0.00 | 55.80 | 260.68 | 2.00 | 0.00 | 1.00 | 0.00 |
| 55.86 | 259.76 | 2.00 | 0.00 | 1.00 | 0.00 | 55.97 | 288.32 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.01 | 306.20 | 2.00 | 0.00 | 1.00 | 0.00 | 56.06 | 186.61 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.11 | 194.57 | 2.00 | 0.00 | 1.00 | 0.00 | 56.15 | 203.27 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.20 | 209.60 | 2.00 | 0.00 | 1.00 | 0.00 | 56.27 | 210.15 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.27 | 210.45 | 2.00 | 0.00 | 1.00 | 0.00 | 56.30 | 203.39 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.33 | 205.64 | 2.00 | 0.00 | 1.00 | 0.00 | 56.35 | 205.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.40 | 211.31 | 2.00 | 0.00 | 1.00 | 0.00 | 56.41 | 211.76 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.44 | 215.53 | 2.00 | 0.00 | 1.00 | 0.00 | 56.49 | 219.75 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.54 | 226.71 | 2.00 | 0.00 | 1.00 | 0.00 | 56.58 | 232.85 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.59 | 236.93 | 2.00 | 0.00 | 1.00 | 0.00 | 56.64 | 239.07 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.69 | 241.29 | 2.00 | 0.00 | 1.00 | 0.00 | 56.73 | 245.40 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.78 | 245.38 | 2.00 | 0.00 | 1.00 | 0.00 | 56.83 | 239.22 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.88 | 230.32 | 2.00 | 0.00 | 1.00 | 0.00 | 56.89 | 223.03 | 2.00 | 0.00 | 1.00 | 0.00 |
| 56.95 | 217.71 | 2.00 | 0.00 | 1.00 | 0.00 | 57.01 | 209.81 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 57.07 | 202.70 | 2.00 | 0.00 | 1.00 | 0.00 | 57.11 | 194.25 | 2.00 | 0.00 | 1.00 | 0.00 |
| 57.17 | 187.56 | 2.00 | 0.00 | 1.00 | 0.00 | 57.26 | 179.66 | 1.89 | 0.00 | 1.00 | 0.00 |
| 57.31 | 171.06 | 1.67 | 0.00 | 1.00 | 0.00 | 57.37 | 162.50 | 1.46 | 0.00 | 1.00 | 0.00 |
| 57.45 | 152.96 | 1.26 | 0.21 | 1.00 | 0.00 | 57.51 | 140.63 | 1.03 | 0.64 | 1.00 | 0.00 |
| 57.53 | 131.27 | 0.89 | 1.05 | 1.00 | 0.00 | 57.59 | 124.87 | 0.80 | 1.47 | 1.00 | 0.01 |
| 57.63 | 124.05 | 0.79 | 1.48 | 1.00 | 0.01 | 57.68 | 121.66 | 0.76 | 1.53 | 1.00 | 0.01 |
| 57.73 | 120.01 | 0.74 | 1.90 | 1.00 | 0.01 | 57.78 | 117.62 | 0.71 | 1.95 | 1.00 | 0.01 |
| 57.86 | 111.55 | 0.64 | 2.14 | 1.00 | 0.02 | 57.92 | 100.97 | 2.00 | 0.00 | 1.00 | 0.00 |
| 57.98 | 89.82 | 2.00 | 0.00 | 1.00 | 0.00 | 58.06 | 95.51 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.12 | 92.39 | 2.00 | 0.00 | 1.00 | 0.00 | 58.21 | 88.73 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.26 | 85.71 | 2.00 | 0.00 | 1.00 | 0.00 | 58.35 | 81.38 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.41 | 74.91 | 2.00 | 0.00 | 1.00 | 0.00 | 58.50 | 70.73 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.56 | 67.27 | 2.00 | 0.00 | 1.00 | 0.00 | 58.64 | 74.61 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.73 | 81.15 | 2.00 | 0.00 | 1.00 | 0.00 | 58.80 | 87.16 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.84 | 91.44 | 2.00 | 0.00 | 1.00 | 0.00 | 58.85 | 91.06 | 2.00 | 0.00 | 1.00 | 0.00 |
| 58.93 | 87.49 | 2.00 | 0.00 | 1.00 | 0.00 | 58.98 | 82.49 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.02 | 79.02 | 2.00 | 0.00 | 1.00 | 0.00 | 59.12 | 77.74 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.17 | 78.34 | 2.00 | 0.00 | 1.00 | 0.00 | 59.27 | 80.06 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.31 | 82.31 | 2.00 | 0.00 | 1.00 | 0.00 | 59.41 | 84.40 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.46 | 85.91 | 2.00 | 0.00 | 1.00 | 0.00 | 59.55 | 86.53 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.65 | 82.12 | 2.00 | 0.00 | 1.00 | 0.00 | 59.70 | 78.48 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.80 | 75.77 | 2.00 | 0.00 | 1.00 | 0.00 | 59.89 | 79.29 | 2.00 | 0.00 | 1.00 | 0.00 |
| 59.94 | 82.68 | 2.00 | 0.00 | 1.00 | 0.00 | 60.01 | 85.21 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.02 | 85.70 | 2.00 | 0.00 | 1.00 | 0.00 | 60.08 | 84.70 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.12 | 83.40 | 2.00 | 0.00 | 1.00 | 0.00 | 60.17 | 81.32 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.27 | 76.99 | 2.00 | 0.00 | 1.00 | 0.00 | 60.31 | 71.83 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.37 | 67.16 | 2.00 | 0.00 | 1.00 | 0.00 | 60.46 | 64.16 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.51 | 61.05 | 2.00 | 0.00 | 1.00 | 0.00 | 60.61 | 59.48 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.65 | 58.49 | 2.00 | 0.00 | 1.00 | 0.00 | 60.75 | 58.52 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.81 | 58.52 | 2.00 | 0.00 | 1.00 | 0.00 | 60.89 | 58.14 | 2.00 | 0.00 | 1.00 | 0.00 |
| 60.94 | 58.37 | 2.00 | 0.00 | 1.00 | 0.00 | 61.03 | 59.27 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.09 | 59.56 | 2.00 | 0.00 | 1.00 | 0.00 | 61.19 | 59.09 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.24 | 58.48 | 2.00 | 0.00 | 1.00 | 0.00 | 61.33 | 59.55 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.38 | 65.92 | 2.00 | 0.00 | 1.00 | 0.00 | 61.47 | 73.50 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.53 | 81.14 | 2.00 | 0.00 | 1.00 | 0.00 | 61.62 | 81.97 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.70 | 82.73 | 2.00 | 0.00 | 1.00 | 0.00 | 61.77 | 84.93 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.86 | 89.66 | 2.00 | 0.00 | 1.00 | 0.00 | 61.95 | 94.89 | 2.00 | 0.00 | 1.00 | 0.00 |
| 61.97 | 96.91 | 2.00 | 0.00 | 1.00 | 0.00 | 62.01 | 99.66 | 2.00 | 0.00 | 1.00 | 0.00 |
| 62.10 | 99.23 | 2.00 | 0.00 | 1.00 | 0.00 | 62.24 | 89.92 | 2.00 | 0.00 | 1.00 | 0.00 |
| 62.34 | 71.54 | 2.00 | 0.00 | 1.00 | 0.00 | 62.49 | 64.77 | 2.00 | 0.00 | 1.00 | 0.00 |
| 62.54 | 69.68 | 2.00 | 0.00 | 1.00 | 0.00 | 62.66 | 73.33 | 2.00 | 0.00 | 1.00 | 0.00 |
| 62.74 | 77.94 | 2.00 | 0.00 | 1.00 | 0.00 | 62.87 | 80.99 | 2.00 | 0.00 | 1.00 | 0.00 |
| 62.92 | 82.65 | 2.00 | 0.00 | 1.00 | 0.00 | 63.03 | 83.41 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.15 | 83.38 | 2.00 | 0.00 | 1.00 | 0.00 | 63.26 | 82.35 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.37 | 80.92 | 2.00 | 0.00 | 1.00 | 0.00 | 63.45 | 78.49 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.54 | 76.31 | 2.00 | 0.00 | 1.00 | 0.00 | 63.61 | 73.61 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.69 | 69.47 | 2.00 | 0.00 | 1.00 | 0.00 | 63.79 | 67.77 | 2.00 | 0.00 | 1.00 | 0.00 |
| 63.89 | 66.74 | 2.00 | 0.00 | 1.00 | 0.00 | 63.98 | 71.48 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 64.07 | 71.91 | 2.00 | 0.00 | 1.00 | 0.00 | 64.15 | 76.48 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.23 | 77.68 | 2.00 | 0.00 | 1.00 | 0.00 | 64.26 | 78.26 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.29 | 78.14 | 2.00 | 0.00 | 1.00 | 0.00 | 64.33 | 74.86 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.43 | 70.78 | 2.00 | 0.00 | 1.00 | 0.00 | 64.47 | 66.07 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.53 | 64.15 | 2.00 | 0.00 | 1.00 | 0.00 | 64.62 | 63.40 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.72 | 63.23 | 2.00 | 0.00 | 1.00 | 0.00 | 64.78 | 63.74 | 2.00 | 0.00 | 1.00 | 0.00 |
| 64.86 | 65.01 | 2.00 | 0.00 | 1.00 | 0.00 | 64.96 | 68.31 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.06 | 71.61 | 2.00 | 0.00 | 1.00 | 0.00 | 65.11 | 74.58 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.21 | 75.90 | 2.00 | 0.00 | 1.00 | 0.00 | 65.31 | 76.26 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.40 | 72.77 | 2.00 | 0.00 | 1.00 | 0.00 | 65.50 | 67.97 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.58 | 63.13 | 2.00 | 0.00 | 1.00 | 0.00 | 65.68 | 61.17 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.78 | 60.45 | 2.00 | 0.00 | 1.00 | 0.00 | 65.84 | 59.69 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.86 | 59.62 | 2.00 | 0.00 | 1.00 | 0.00 | 65.87 | 59.36 | 2.00 | 0.00 | 1.00 | 0.00 |
| 65.98 | 59.09 | 2.00 | 0.00 | 1.00 | 0.00 | 66.10 | 60.13 | 2.00 | 0.00 | 1.00 | 0.00 |
| 66.21 | 62.32 | 2.00 | 0.00 | 1.00 | 0.00 | 66.34 | 63.01 | 2.00 | 0.00 | 1.00 | 0.00 |
| 66.48 | 63.55 | 2.00 | 0.00 | 1.00 | 0.00 | 66.62 | 62.45 | 2.00 | 0.00 | 1.00 | 0.00 |
| 66.68 | 64.07 | 2.00 | 0.00 | 1.00 | 0.00 | 66.87 | 67.94 | 2.00 | 0.00 | 1.00 | 0.00 |
| 66.96 | 73.89 | 2.00 | 0.00 | 1.00 | 0.00 | 67.11 | 78.15 | 2.00 | 0.00 | 1.00 | 0.00 |
| 67.21 | 76.60 | 2.00 | 0.00 | 1.00 | 0.00 | 67.35 | 73.18 | 2.00 | 0.00 | 1.00 | 0.00 |
| 67.45 | 77.86 | 2.00 | 0.00 | 1.00 | 0.00 | 67.59 | 88.71 | 2.00 | 0.00 | 1.00 | 0.00 |
| 67.68 | 83.67 | 2.00 | 0.00 | 1.00 | 0.00 | 67.83 | 74.68 | 2.00 | 0.00 | 1.00 | 0.00 |
| 67.92 | 88.64 | 2.00 | 0.00 | 1.00 | 0.00 | 68.02 | 99.35 | 2.00 | 0.00 | 1.00 | 0.00 |
| 68.07 | 103.71 | 2.00 | 0.00 | 1.00 | 0.00 | 68.16 | 105.26 | 2.00 | 0.00 | 1.00 | 0.00 |
| 68.26 | 106.54 | 2.00 | 0.00 | 1.00 | 0.00 | 68.35 | 106.44 | 2.00 | 0.00 | 1.00 | 0.00 |
| 68.45 | 105.37 | 2.00 | 0.00 | 1.00 | 0.00 | 68.55 | 103.72 | 2.00 | 0.00 | 1.00 | 0.00 |
| 68.65 | 98.57 | 2.00 | 0.00 | 1.00 | 0.00 | 68.78 | 94.35 | 2.00 | 0.00 | 1.00 | 0.00 |
| 68.78 | 90.91 | 2.00 | 0.00 | 1.00 | 0.00 | 68.79 | 89.70 | 2.00 | 0.00 | 1.00 | 0.00 |
| 68.83 | 89.08 | 2.00 | 0.00 | 1.00 | 0.00 | 68.93 | 88.59 | 2.00 | 0.00 | 1.00 | 0.00 |
| 68.98 | 89.18 | 2.00 | 0.00 | 1.00 | 0.00 | 69.04 | 89.05 | 2.00 | 0.00 | 1.00 | 0.00 |
| 69.12 | 89.10 | 2.00 | 0.00 | 1.00 | 0.00 | 69.22 | 88.23 | 2.00 | 0.00 | 1.00 | 0.00 |
| 69.28 | 86.25 | 2.00 | 0.00 | 1.00 | 0.00 | 69.36 | 83.22 | 2.00 | 0.00 | 1.00 | 0.00 |
| 69.45 | 79.21 | 2.00 | 0.00 | 1.00 | 0.00 | 69.60 | 75.34 | 2.00 | 0.00 | 1.00 | 0.00 |
| 69.70 | 72.05 | 2.00 | 0.00 | 1.00 | 0.00 | 69.80 | 70.68 | 2.00 | 0.00 | 1.00 | 0.00 |
| 69.89 | 70.30 | 2.00 | 0.00 | 1.00 | 0.00 | 69.98 | 69.82 | 2.00 | 0.00 | 1.00 | 0.00 |
| 70.08 | 67.53 | 2.00 | 0.00 | 1.00 | 0.00 | 70.18 | 63.51 | 2.00 | 0.00 | 1.00 | 0.00 |
| 70.32 | 61.16 | 2.00 | 0.00 | 1.00 | 0.00 | 70.42 | 66.77 | 2.00 | 0.00 | 1.00 | 0.00 |
| 70.54 | 74.19 | 2.00 | 0.00 | 1.00 | 0.00 | 70.66 | 75.54 | 2.00 | 0.00 | 1.00 | 0.00 |
| 70.75 | 72.70 | 2.00 | 0.00 | 1.00 | 0.00 | 70.80 | 66.71 | 2.00 | 0.00 | 1.00 | 0.00 |
| 70.89 | 59.87 | 2.00 | 0.00 | 1.00 | 0.00 | 70.99 | 53.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 71.08 | 49.46 | 2.00 | 0.00 | 1.00 | 0.00 | 71.17 | 47.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 71.23 | 47.05 | 2.00 | 0.00 | 1.00 | 0.00 | 71.33 | 46.20 | 2.00 | 0.00 | 1.00 | 0.00 |
| 71.42 | 44.64 | 2.00 | 0.00 | 1.00 | 0.00 | 71.52 | 43.06 | 2.00 | 0.00 | 1.00 | 0.00 |
| 71.58 | 44.01 | 2.00 | 0.00 | 1.00 | 0.00 | 71.67 | 47.43 | 2.00 | 0.00 | 1.00 | 0.00 |
| 71.81 | 50.76 | 2.00 | 0.00 | 1.00 | 0.00 | 71.82 | 52.55 | 2.00 | 0.00 | 1.00 | 0.00 |
| 71.86 | 52.82 | 2.00 | 0.00 | 1.00 | 0.00 | 71.91 | 52.95 | 2.00 | 0.00 | 1.00 | 0.00 |
| 71.97 | 53.27 | 2.00 | 0.00 | 1.00 | 0.00 | 72.05 | 53.72 | 2.00 | 0.00 | 1.00 | 0.00 |
| 72.10 | 54.35 | 2.00 | 0.00 | 1.00 | 0.00 | 72.20 | 54.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 72.25 | 55.49 | 2.00 | 0.00 | 1.00 | 0.00 | 72.34 | 56.94 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 72.44 | 58.80 | 2.00 | 0.00 | 1.00 | 0.00 | 72.53 | 60.40 | 2.00 | 0.00 | 1.00 | 0.00 |
| 72.63 | 61.13 | 2.00 | 0.00 | 1.00 | 0.00 | 72.69 | 61.14 | 2.00 | 0.00 | 1.00 | 0.00 |
| 72.82 | 60.87 | 2.00 | 0.00 | 1.00 | 0.00 | 72.92 | 60.05 | 2.00 | 0.00 | 1.00 | 0.00 |
| 73.06 | 59.27 | 2.00 | 0.00 | 1.00 | 0.00 | 73.16 | 59.57 | 2.00 | 0.00 | 1.00 | 0.00 |
| 73.30 | 60.65 | 2.00 | 0.00 | 1.00 | 0.00 | 73.35 | 61.53 | 2.00 | 0.00 | 1.00 | 0.00 |
| 73.38 | 61.23 | 2.00 | 0.00 | 1.00 | 0.00 | 73.47 | 60.67 | 2.00 | 0.00 | 1.00 | 0.00 |
| 73.53 | 60.20 | 2.00 | 0.00 | 1.00 | 0.00 | 73.62 | 59.95 | 2.00 | 0.00 | 1.00 | 0.00 |
| 73.71 | 60.28 | 2.00 | 0.00 | 1.00 | 0.00 | 73.77 | 61.46 | 2.00 | 0.00 | 1.00 | 0.00 |
| 73.86 | 63.08 | 2.00 | 0.00 | 1.00 | 0.00 | 73.96 | 64.61 | 2.00 | 0.00 | 1.00 | 0.00 |
| 74.06 | 65.59 | 2.00 | 0.00 | 1.00 | 0.00 | 74.13 | 66.22 | 2.00 | 0.00 | 1.00 | 0.00 |
| 74.24 | 66.66 | 2.00 | 0.00 | 1.00 | 0.00 | 74.34 | 67.26 | 2.00 | 0.00 | 1.00 | 0.00 |
| 74.44 | 67.81 | 2.00 | 0.00 | 1.00 | 0.00 | 74.58 | 67.28 | 2.00 | 0.00 | 1.00 | 0.00 |
| 74.68 | 62.80 | 2.00 | 0.00 | 1.00 | 0.00 | 74.80 | 58.74 | 2.00 | 0.00 | 1.00 | 0.00 |
| 74.92 | 56.43 | 2.00 | 0.00 | 1.00 | 0.00 | 75.07 | 58.35 | 2.00 | 0.00 | 1.00 | 0.00 |
| 75.08 | 59.34 | 2.00 | 0.00 | 1.00 | 0.00 | 75.11 | 59.53 | 2.00 | 0.00 | 1.00 | 0.00 |
| 75.16 | 60.28 | 2.00 | 0.00 | 1.00 | 0.00 | 75.25 | 61.74 | 2.00 | 0.00 | 1.00 | 0.00 |
| 75.32 | 63.23 | 2.00 | 0.00 | 1.00 | 0.00 | 75.40 | 63.73 | 2.00 | 0.00 | 1.00 | 0.00 |
| 75.50 | 62.77 | 2.00 | 0.00 | 1.00 | 0.00 | 75.59 | 60.75 | 2.00 | 0.00 | 1.00 | 0.00 |
| 75.69 | 58.60 | 2.00 | 0.00 | 1.00 | 0.00 | 75.78 | 56.46 | 2.00 | 0.00 | 1.00 | 0.00 |
| 75.88 | 54.66 | 2.00 | 0.00 | 1.00 | 0.00 | 75.96 | 52.90 | 2.00 | 0.00 | 1.00 | 0.00 |
| 76.05 | 51.65 | 2.00 | 0.00 | 1.00 | 0.00 | 76.14 | 51.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 76.26 | 51.09 | 2.00 | 0.00 | 1.00 | 0.00 | 76.36 | 51.38 | 2.00 | 0.00 | 1.00 | 0.00 |
| 76.41 | 51.50 | 2.00 | 0.00 | 1.00 | 0.00 | 76.51 | 51.17 | 2.00 | 0.00 | 1.00 | 0.00 |
| 76.65 | 51.04 | 2.00 | 0.00 | 1.00 | 0.00 | 76.72 | 51.12 | 2.00 | 0.00 | 1.00 | 0.00 |
| 76.79 | 51.39 | 2.00 | 0.00 | 1.00 | 0.00 | 76.89 | 53.53 | 2.00 | 0.00 | 1.00 | 0.00 |
| 76.98 | 61.89 | 2.00 | 0.00 | 1.00 | 0.00 | 77.08 | 69.60 | 2.00 | 0.00 | 1.00 | 0.00 |
| 77.18 | 77.29 | 2.00 | 0.00 | 1.00 | 0.00 | 77.28 | 84.26 | 2.00 | 0.00 | 1.00 | 0.00 |
| 77.37 | 93.62 | 2.00 | 0.00 | 1.00 | 0.00 | 77.42 | 100.64 | 2.00 | 0.00 | 1.00 | 0.00 |
| 77.42 | 104.44 | 2.00 | 0.00 | 1.00 | 0.00 | 77.44 | 107.05 | 2.00 | 0.00 | 1.00 | 0.00 |
| 77.48 | 110.31 | 2.00 | 0.00 | 1.00 | 0.00 | 77.52 | 113.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 77.54 | 114.44 | 2.00 | 0.00 | 1.00 | 0.00 | 77.57 | 115.54 | 2.00 | 0.00 | 1.00 | 0.00 |
| 77.62 | 115.93 | 2.00 | 0.00 | 1.00 | 0.00 | 77.65 | 115.64 | 2.00 | 0.00 | 1.00 | 0.00 |
| 77.67 | 113.32 | 2.00 | 0.00 | 1.00 | 0.00 | 77.71 | 111.24 | 2.00 | 0.00 | 1.00 | 0.00 |
| 77.71 | 107.78 | 2.00 | 0.00 | 1.00 | 0.00 | 77.76 | 104.25 | 2.00 | 0.00 | 1.00 | 0.00 |
| 77.81 | 98.88 | 2.00 | 0.00 | 1.00 | 0.00 | 77.90 | 94.60 | 2.00 | 0.00 | 1.00 | 0.00 |
| 77.95 | 92.44 | 2.00 | 0.00 | 1.00 | 0.00 | 78.01 | 91.29 | 2.00 | 0.00 | 1.00 | 0.00 |
| 78.10 | 89.37 | 2.00 | 0.00 | 1.00 | 0.00 | 78.16 | 84.71 | 2.00 | 0.00 | 1.00 | 0.00 |
| 78.24 | 79.05 | 2.00 | 0.00 | 1.00 | 0.00 | 78.29 | 73.14 | 2.00 | 0.00 | 1.00 | 0.00 |
| 78.39 | 69.27 | 2.00 | 0.00 | 1.00 | 0.00 | 78.47 | 68.51 | 2.00 | 0.00 | 1.00 | 0.00 |
| 78.53 | 71.72 | 2.00 | 0.00 | 1.00 | 0.00 | 78.62 | 77.71 | 2.00 | 0.00 | 1.00 | 0.00 |
| 78.68 | 84.02 | 2.00 | 0.00 | 1.00 | 0.00 | 78.69 | 89.57 | 2.00 | 0.00 | 1.00 | 0.00 |
| 78.78 | 95.10 | 2.00 | 0.00 | 1.00 | 0.00 | 78.81 | 102.04 | 2.00 | 0.00 | 1.00 | 0.00 |
| 78.92 | 107.35 | 2.00 | 0.00 | 1.00 | 0.00 | 79.03 | 107.43 | 2.00 | 0.00 | 1.00 | 0.00 |
| 79.16 | 99.26 | 2.00 | 0.00 | 1.00 | 0.00 | 79.26 | 88.45 | 2.00 | 0.00 | 1.00 | 0.00 |
| 79.35 | 83.92 | 2.00 | 0.00 | 1.00 | 0.00 | 79.45 | 85.78 | 2.00 | 0.00 | 1.00 | 0.00 |
| 79.54 | 89.58 | 2.00 | 0.00 | 1.00 | 0.00 | 79.64 | 91.91 | 2.00 | 0.00 | 1.00 | 0.00 |
| 79.74 | 93.85 | 2.00 | 0.00 | 1.00 | 0.00 | 79.88 | 94.86 | 2.00 | 0.00 | 1.00 | 0.00 |
| 79.98 | 95.73 | 2.00 | 0.00 | 1.00 | 0.00 | 80.12 | 95.14 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 80.22 | 91.22 | 2.00 | 0.00 | 1.00 | 0.00 | 80.36 | 86.07 | 2.00 | 0.00 | 1.00 | 0.00 |
| 80.46 | 81.11 | 2.00 | 0.00 | 1.00 | 0.00 | 80.60 | 77.21 | 2.00 | 0.00 | 1.00 | 0.00 |
| 80.70 | 74.37 | 2.00 | 0.00 | 1.00 | 0.00 | 80.83 | 72.04 | 2.00 | 0.00 | 1.00 | 0.00 |
| 80.94 | 69.62 | 2.00 | 0.00 | 1.00 | 0.00 | 81.01 | 67.91 | 2.00 | 0.00 | 1.00 | 0.00 |
| 81.04 | 66.50 | 2.00 | 0.00 | 1.00 | 0.00 | 81.09 | 65.97 | 2.00 | 0.00 | 1.00 | 0.00 |
| 81.13 | 66.04 | 2.00 | 0.00 | 1.00 | 0.00 | 81.18 | 67.98 | 2.00 | 0.00 | 1.00 | 0.00 |
| 81.23 | 72.13 | 2.00 | 0.00 | 1.00 | 0.00 | 81.28 | 77.64 | 2.00 | 0.00 | 1.00 | 0.00 |
| 81.33 | 84.19 | 2.00 | 0.00 | 1.00 | 0.00 | 81.37 | 92.48 | 2.00 | 0.00 | 1.00 | 0.00 |
| 81.42 | 100.46 | 2.00 | 0.00 | 1.00 | 0.00 | 81.47 | 106.15 | 2.00 | 0.00 | 1.00 | 0.00 |
| 81.52 | 109.13 | 2.00 | 0.00 | 1.00 | 0.00 | 81.56 | 111.09 | 2.00 | 0.00 | 1.00 | 0.00 |
| 81.61 | 112.75 | 2.00 | 0.00 | 1.00 | 0.00 | 81.64 | 114.41 | 2.00 | 0.00 | 1.00 | 0.00 |
| 81.70 | 116.91 | 2.00 | 0.00 | 1.00 | 0.00 | 81.75 | 118.94 | 2.00 | 0.00 | 1.00 | 0.00 |
| 81.79 | 119.14 | 2.00 | 0.00 | 1.00 | 0.00 | 81.82 | 116.62 | 2.00 | 0.00 | 1.00 | 0.00 |
| 81.86 | 112.49 | 2.00 | 0.00 | 1.00 | 0.00 | 81.91 | 107.66 | 2.00 | 0.00 | 1.00 | 0.00 |
| 81.95 | 102.27 | 2.00 | 0.00 | 1.00 | 0.00 | 82.00 | 95.81 | 2.00 | 0.00 | 1.00 | 0.00 |
| 82.09 | 89.46 | 2.00 | 0.00 | 1.00 | 0.00 | 82.15 | 84.64 | 2.00 | 0.00 | 1.00 | 0.00 |
| 82.19 | 81.03 | 2.00 | 0.00 | 1.00 | 0.00 | 82.26 | 77.56 | 2.00 | 0.00 | 1.00 | 0.00 |
| 82.34 | 74.17 | 2.00 | 0.00 | 1.00 | 0.00 | 82.39 | 71.81 | 2.00 | 0.00 | 1.00 | 0.00 |
| 82.48 | 69.97 | 2.00 | 0.00 | 1.00 | 0.00 | 82.58 | 68.21 | 2.00 | 0.00 | 1.00 | 0.00 |
| 82.62 | 66.60 | 2.00 | 0.00 | 1.00 | 0.00 | 82.70 | 65.56 | 2.00 | 0.00 | 1.00 | 0.00 |
| 82.77 | 64.46 | 2.00 | 0.00 | 1.00 | 0.00 | 82.87 | 64.01 | 2.00 | 0.00 | 1.00 | 0.00 |
| 82.96 | 63.38 | 2.00 | 0.00 | 1.00 | 0.00 | 83.06 | 63.34 | 2.00 | 0.00 | 1.00 | 0.00 |
| 83.16 | 63.10 | 2.00 | 0.00 | 1.00 | 0.00 | 83.25 | 62.94 | 2.00 | 0.00 | 1.00 | 0.00 |
| 83.34 | 62.57 | 2.00 | 0.00 | 1.00 | 0.00 | 83.44 | 63.55 | 2.00 | 0.00 | 1.00 | 0.00 |
| 83.54 | 64.89 | 2.00 | 0.00 | 1.00 | 0.00 | 83.64 | 66.49 | 2.00 | 0.00 | 1.00 | 0.00 |
| 83.73 | 68.29 | 2.00 | 0.00 | 1.00 | 0.00 | 83.83 | 70.46 | 2.00 | 0.00 | 1.00 | 0.00 |
| 83.85 | 73.38 | 2.00 | 0.00 | 1.00 | 0.00 | 83.89 | 75.93 | 2.00 | 0.00 | 1.00 | 0.00 |
| 83.94 | 81.26 | 2.00 | 0.00 | 1.00 | 0.00 | 84.04 | 85.92 | 2.00 | 0.00 | 1.00 | 0.00 |
| 84.09 | 90.10 | 2.00 | 0.00 | 1.00 | 0.00 | 84.13 | 91.94 | 2.00 | 0.00 | 1.00 | 0.00 |
| 84.18 | 93.61 | 2.00 | 0.00 | 1.00 | 0.00 | 84.25 | 94.85 | 2.00 | 0.00 | 1.00 | 0.00 |
| 84.33 | 95.60 | 2.00 | 0.00 | 1.00 | 0.00 | 84.37 | 95.90 | 2.00 | 0.00 | 1.00 | 0.00 |
| 84.46 | 94.98 | 2.00 | 0.00 | 1.00 | 0.00 | 84.52 | 93.43 | 2.00 | 0.00 | 1.00 | 0.00 |
| 84.57 | 91.27 | 2.00 | 0.00 | 1.00 | 0.00 | 84.67 | 90.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 84.71 | 89.72 | 2.00 | 0.00 | 1.00 | 0.00 | 84.81 | 90.86 | 2.00 | 0.00 | 1.00 | 0.00 |
| 84.86 | 92.62 | 2.00 | 0.00 | 1.00 | 0.00 | 84.91 | 94.03 | 2.00 | 0.00 | 1.00 | 0.00 |
| 85.00 | 94.63 | 2.00 | 0.00 | 1.00 | 0.00 | 85.05 | 93.94 | 2.00 | 0.00 | 1.00 | 0.00 |
| 85.15 | 92.30 | 2.00 | 0.00 | 1.00 | 0.00 | 85.19 | 89.13 | 2.00 | 0.00 | 1.00 | 0.00 |
| 85.29 | 85.98 | 2.00 | 0.00 | 1.00 | 0.00 | 85.35 | 83.14 | 2.00 | 0.00 | 1.00 | 0.00 |
| 85.42 | 81.54 | 2.00 | 0.00 | 1.00 | 0.00 | 85.48 | 80.45 | 2.00 | 0.00 | 1.00 | 0.00 |
| 85.55 | 79.50 | 2.00 | 0.00 | 1.00 | 0.00 | 85.63 | 78.76 | 2.00 | 0.00 | 1.00 | 0.00 |
| 85.68 | 78.25 | 2.00 | 0.00 | 1.00 | 0.00 | 85.77 | 78.03 | 2.00 | 0.00 | 1.00 | 0.00 |
| 85.82 | 78.34 | 2.00 | 0.00 | 1.00 | 0.00 | 85.89 | 78.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 85.96 | 79.01 | 2.00 | 0.00 | 1.00 | 0.00 | 86.03 | 78.44 | 2.00 | 0.00 | 1.00 | 0.00 |
| 86.11 | 77.40 | 2.00 | 0.00 | 1.00 | 0.00 | 86.16 | 76.21 | 2.00 | 0.00 | 1.00 | 0.00 |
| 86.25 | 75.81 | 2.00 | 0.00 | 1.00 | 0.00 | 86.36 | 74.32 | 2.00 | 0.00 | 1.00 | 0.00 |
| 86.50 | 72.85 | 2.00 | 0.00 | 1.00 | 0.00 | 86.51 | 70.91 | 2.00 | 0.00 | 1.00 | 0.00 |
| 86.52 | 69.58 | 2.00 | 0.00 | 1.00 | 0.00 | 86.57 | 66.80 | 2.00 | 0.00 | 1.00 | 0.00 |
| 86.65 | 63.50 | 2.00 | 0.00 | 1.00 | 0.00 | 86.71 | 60.73 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 86.80 | 59.11 | 2.00 | 0.00 | 1.00 | 0.00 | 86.90 | 57.42 | 2.00 | 0.00 | 1.00 | 0.00 |
| 86.99 | 55.74 | 2.00 | 0.00 | 1.00 | 0.00 | 87.04 | 54.32 | 2.00 | 0.00 | 1.00 | 0.00 |
| 87.14 | 53.51 | 2.00 | 0.00 | 1.00 | 0.00 | 87.19 | 53.36 | 2.00 | 0.00 | 1.00 | 0.00 |
| 87.28 | 54.40 | 2.00 | 0.00 | 1.00 | 0.00 | 87.38 | 55.67 | 2.00 | 0.00 | 1.00 | 0.00 |
| 87.43 | 56.85 | 2.00 | 0.00 | 1.00 | 0.00 | 87.52 | 57.36 | 2.00 | 0.00 | 1.00 | 0.00 |
| 87.61 | 57.58 | 2.00 | 0.00 | 1.00 | 0.00 | 87.66 | 57.47 | 2.00 | 0.00 | 1.00 | 0.00 |
| 87.76 | 57.12 | 2.00 | 0.00 | 1.00 | 0.00 | 87.84 | 56.58 | 2.00 | 0.00 | 1.00 | 0.00 |
| 87.91 | 56.08 | 2.00 | 0.00 | 1.00 | 0.00 | 88.00 | 55.54 | 2.00 | 0.00 | 1.00 | 0.00 |
| 88.11 | 55.23 | 2.00 | 0.00 | 1.00 | 0.00 | 88.19 | 55.01 | 2.00 | 0.00 | 1.00 | 0.00 |
| 88.25 | 54.79 | 2.00 | 0.00 | 1.00 | 0.00 | 88.34 | 54.27 | 2.00 | 0.00 | 1.00 | 0.00 |
| 88.44 | 53.59 | 2.00 | 0.00 | 1.00 | 0.00 | 88.54 | 52.93 | 2.00 | 0.00 | 1.00 | 0.00 |
| 88.64 | 52.52 | 2.00 | 0.00 | 1.00 | 0.00 | 88.72 | 52.42 | 2.00 | 0.00 | 1.00 | 0.00 |
| 88.82 | 52.53 | 2.00 | 0.00 | 1.00 | 0.00 | 88.91 | 52.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 89.01 | 53.02 | 2.00 | 0.00 | 1.00 | 0.00 | 89.10 | 53.22 | 2.00 | 0.00 | 1.00 | 0.00 |
| 89.19 | 52.91 | 2.00 | 0.00 | 1.00 | 0.00 | 89.30 | 50.44 | 2.00 | 0.00 | 1.00 | 0.00 |
| 89.39 | 48.98 | 2.00 | 0.00 | 1.00 | 0.00 | 89.49 | 49.49 | 2.00 | 0.00 | 1.00 | 0.00 |
| 89.59 | 52.76 | 2.00 | 0.00 | 1.00 | 0.00 | 89.69 | 54.90 | 2.00 | 0.00 | 1.00 | 0.00 |
| 89.73 | 55.86 | 2.00 | 0.00 | 1.00 | 0.00 | 89.78 | 56.23 | 2.00 | 0.00 | 1.00 | 0.00 |
| 89.83 | 56.56 | 2.00 | 0.00 | 1.00 | 0.00 | 89.88 | 57.05 | 2.00 | 0.00 | 1.00 | 0.00 |
| 89.93 | 57.77 | 2.00 | 0.00 | 1.00 | 0.00 | 90.00 | 58.79 | 2.00 | 0.00 | 1.00 | 0.00 |
| 90.07 | 59.82 | 2.00 | 0.00 | 1.00 | 0.00 | 90.12 | 61.24 | 2.00 | 0.00 | 1.00 | 0.00 |
| 90.22 | 62.84 | 2.00 | 0.00 | 1.00 | 0.00 | 90.27 | 65.70 | 2.00 | 0.00 | 1.00 | 0.00 |
| 90.36 | 68.34 | 2.00 | 0.00 | 1.00 | 0.00 | 90.46 | 70.27 | 2.00 | 0.00 | 1.00 | 0.00 |
| 90.50 | 71.01 | 2.00 | 0.00 | 1.00 | 0.00 | 90.61 | 71.39 | 2.00 | 0.00 | 1.00 | 0.00 |
| 90.66 | 71.12 | 2.00 | 0.00 | 1.00 | 0.00 | 90.75 | 69.74 | 2.00 | 0.00 | 1.00 | 0.00 |
| 90.84 | 67.94 | 2.00 | 0.00 | 1.00 | 0.00 | 90.89 | 66.20 | 2.00 | 0.00 | 1.00 | 0.00 |
| 90.99 | 65.12 | 2.00 | 0.00 | 1.00 | 0.00 | 91.04 | 64.21 | 2.00 | 0.00 | 1.00 | 0.00 |
| 91.14 | 63.69 | 2.00 | 0.00 | 1.00 | 0.00 | 91.22 | 63.19 | 2.00 | 0.00 | 1.00 | 0.00 |
| 91.28 | 62.55 | 2.00 | 0.00 | 1.00 | 0.00 | 91.37 | 61.75 | 2.00 | 0.00 | 1.00 | 0.00 |
| 91.47 | 60.75 | 2.00 | 0.00 | 1.00 | 0.00 | 91.61 | 60.19 | 2.00 | 0.00 | 1.00 | 0.00 |
| 91.71 | 59.97 | 2.00 | 0.00 | 1.00 | 0.00 | 91.81 | 60.03 | 2.00 | 0.00 | 1.00 | 0.00 |
| 91.87 | 59.68 | 2.00 | 0.00 | 1.00 | 0.00 | 92.00 | 57.50 | 2.00 | 0.00 | 1.00 | 0.00 |
| 92.10 | 55.77 | 2.00 | 0.00 | 1.00 | 0.00 | 92.20 | 54.98 | 2.00 | 0.00 | 1.00 | 0.00 |
| 92.33 | 56.37 | 2.00 | 0.00 | 1.00 | 0.00 | 92.38 | 57.43 | 2.00 | 0.00 | 1.00 | 0.00 |
| 92.43 | 57.96 | 2.00 | 0.00 | 1.00 | 0.00 | 92.48 | 58.57 | 2.00 | 0.00 | 1.00 | 0.00 |
| 92.56 | 59.09 | 2.00 | 0.00 | 1.00 | 0.00 | 92.63 | 59.41 | 2.00 | 0.00 | 1.00 | 0.00 |
| 92.67 | 59.42 | 2.00 | 0.00 | 1.00 | 0.00 | 92.72 | 59.38 | 2.00 | 0.00 | 1.00 | 0.00 |
| 92.77 | 59.37 | 2.00 | 0.00 | 1.00 | 0.00 | 92.86 | 59.49 | 2.00 | 0.00 | 1.00 | 0.00 |
| 92.92 | 59.88 | 2.00 | 0.00 | 1.00 | 0.00 | 92.97 | 61.03 | 2.00 | 0.00 | 1.00 | 0.00 |
| 93.05 | 62.12 | 2.00 | 0.00 | 1.00 | 0.00 | 93.10 | 63.07 | 2.00 | 0.00 | 1.00 | 0.00 |
| 93.16 | 63.28 | 2.00 | 0.00 | 1.00 | 0.00 | 93.25 | 63.20 | 2.00 | 0.00 | 1.00 | 0.00 |
| 93.35 | 62.84 | 2.00 | 0.00 | 1.00 | 0.00 | 93.40 | 62.27 | 2.00 | 0.00 | 1.00 | 0.00 |
| 93.49 | 61.82 | 2.00 | 0.00 | 1.00 | 0.00 | 93.56 | 61.55 | 2.00 | 0.00 | 1.00 | 0.00 |
| 93.64 | 61.65 | 2.00 | 0.00 | 1.00 | 0.00 | 93.73 | 62.81 | 2.00 | 0.00 | 1.00 | 0.00 |
| 93.83 | 64.72 | 2.00 | 0.00 | 1.00 | 0.00 | 93.88 | 67.85 | 2.00 | 0.00 | 1.00 | 0.00 |
| 93.97 | 70.35 | 2.00 | 0.00 | 1.00 | 0.00 | 94.07 | 72.95 | 2.00 | 0.00 | 1.00 | 0.00 |
| 94.17 | 75.57 | 2.00 | 0.00 | 1.00 | 0.00 | 94.26 | 76.60 | 2.00 | 0.00 | 1.00 | 0.00 |
| 94.36 | 81.75 | 2.00 | 0.00 | 1.00 | 0.00 | 94.45 | 87.02 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 94.55 | 91.74 | 2.00 | 0.00 | 1.00 | 0.00 | 94.64 | 89.52 | 2.00 | 0.00 | 1.00 | 0.00 |
| 94.72 | 85.22 | 2.00 | 0.00 | 1.00 | 0.00 | 94.74 | 79.85 | 2.00 | 0.00 | 1.00 | 0.00 |
| 94.77 | 76.98 | 2.00 | 0.00 | 1.00 | 0.00 | 94.85 | 74.39 | 2.00 | 0.00 | 1.00 | 0.00 |
| 94.90 | 75.17 | 2.00 | 0.00 | 1.00 | 0.00 | 94.95 | 77.89 | 2.00 | 0.00 | 1.00 | 0.00 |
| 95.01 | 85.22 | 2.00 | 0.00 | 1.00 | 0.00 | 95.09 | 94.37 | 2.00 | 0.00 | 1.00 | 0.00 |
| 95.14 | 107.02 | 2.00 | 0.00 | 1.00 | 0.00 | 95.23 | 117.34 | 2.00 | 0.00 | 1.00 | 0.00 |
| 95.29 | 126.89 | 2.00 | 0.00 | 1.00 | 0.00 | 95.38 | 131.69 | 2.00 | 0.00 | 1.00 | 0.00 |
| 95.43 | 133.43 | 2.00 | 0.00 | 1.00 | 0.00 | 95.52 | 132.50 | 2.00 | 0.00 | 1.00 | 0.00 |
| 95.57 | 128.95 | 2.00 | 0.00 | 1.00 | 0.00 | 95.67 | 123.49 | 2.00 | 0.00 | 1.00 | 0.00 |
| 95.77 | 118.72 | 2.00 | 0.00 | 1.00 | 0.00 | 95.86 | 118.80 | 2.00 | 0.00 | 1.00 | 0.00 |
| 95.95 | 116.56 | 2.00 | 0.00 | 1.00 | 0.00 | 96.03 | 118.40 | 2.00 | 0.00 | 1.00 | 0.00 |
| 96.11 | 118.64 | 2.00 | 0.00 | 1.00 | 0.00 | 96.20 | 124.65 | 2.00 | 0.00 | 1.00 | 0.00 |
| 96.30 | 125.73 | 2.00 | 0.00 | 1.00 | 0.00 | 96.39 | 124.50 | 2.00 | 0.00 | 1.00 | 0.00 |
| 96.50 | 120.31 | 2.00 | 0.00 | 1.00 | 0.00 | 96.59 | 106.72 | 2.00 | 0.00 | 1.00 | 0.00 |
| 96.69 | 91.36 | 2.00 | 0.00 | 1.00 | 0.00 | 96.78 | 77.51 | 2.00 | 0.00 | 1.00 | 0.00 |
| 96.87 | 72.98 | 2.00 | 0.00 | 1.00 | 0.00 | 96.98 | 71.40 | 2.00 | 0.00 | 1.00 | 0.00 |
| 97.02 | 71.90 | 2.00 | 0.00 | 1.00 | 0.00 | 97.06 | 73.47 | 2.00 | 0.00 | 1.00 | 0.00 |
| 97.12 | 76.16 | 2.00 | 0.00 | 1.00 | 0.00 | 97.16 | 79.48 | 2.00 | 0.00 | 1.00 | 0.00 |
| 97.21 | 83.99 | 2.00 | 0.00 | 1.00 | 0.00 | 97.27 | 89.17 | 2.00 | 0.00 | 1.00 | 0.00 |
| 97.33 | 93.67 | 2.00 | 0.00 | 1.00 | 0.00 | 97.40 | 96.33 | 2.00 | 0.00 | 1.00 | 0.00 |
| 97.45 | 97.51 | 2.00 | 0.00 | 1.00 | 0.00 | 97.50 | 100.38 | 2.00 | 0.00 | 1.00 | 0.00 |
| 97.58 | 104.78 | 2.00 | 0.00 | 1.00 | 0.00 | 97.65 | 110.26 | 2.00 | 0.00 | 1.00 | 0.00 |
| 97.69 | 113.95 | 2.00 | 0.00 | 1.00 | 0.00 | 97.74 | 115.68 | 2.00 | 0.00 | 1.00 | 0.00 |
| 97.81 | 116.42 | 2.00 | 0.00 | 1.00 | 0.00 | 97.88 | 116.63 | 2.00 | 0.00 | 1.00 | 0.00 |
| 97.93 | 111.98 | 2.00 | 0.00 | 1.00 | 0.00 | 98.03 | 97.35 | 2.00 | 0.00 | 1.00 | 0.00 |
| 98.15 | 83.50 | 2.00 | 0.00 | 1.00 | 0.00 | 98.21 | 78.05 | 2.00 | 0.00 | 1.00 | 0.00 |
| 98.32 | 80.19 | 2.00 | 0.00 | 1.00 | 0.00 | 98.42 | 85.96 | 2.00 | 0.00 | 1.00 | 0.00 |
| 98.47 | 79.73 | 2.00 | 0.00 | 1.00 | 0.00 | 98.57 | 88.75 | 2.00 | 0.00 | 1.00 | 0.00 |
| 98.70 | 94.00 | 2.00 | 0.00 | 1.00 | 0.00 | 98.78 | 92.13 | 2.00 | 0.00 | 1.00 | 0.00 |
| 98.85 | 84.79 | 2.00 | 0.00 | 1.00 | 0.00 | 98.86 | 76.77 | 2.00 | 0.00 | 1.00 | 0.00 |
| 98.92 | 73.26 | 2.00 | 0.00 | 1.00 | 0.00 | 98.98 | 72.24 | 2.00 | 0.00 | 1.00 | 0.00 |
| 99.03 | 70.12 | 2.00 | 0.00 | 1.00 | 0.00 | 99.11 | 63.67 | 2.00 | 0.00 | 1.00 | 0.00 |
| 99.18 | 74.69 | 2.00 | 0.00 | 1.00 | 0.00 | 99.23 | 73.25 | 2.00 | 0.00 | 1.00 | 0.00 |
| 99.32 | 76.01 | 2.00 | 0.00 | 1.00 | 0.00 | 99.37 | 83.05 | 2.00 | 0.00 | 1.00 | 0.00 |
| 99.45 | 90.04 | 2.00 | 0.00 | 1.00 | 0.00 | 99.56 | 96.01 | 2.00 | 0.00 | 1.00 | 0.00 |
| 99.64 | 101.90 | 2.00 | 0.00 | 1.00 | 0.00 | 99.71 | 108.77 | 2.00 | 0.00 | 1.00 | 0.00 |
| 99.75 | 113.72 | 2.00 | 0.00 | 1.00 | 0.00 | 99.90 | 118.27 | 2.00 | 0.00 | 1.00 | 0.00 |
| 99.95 | 126.55 | 2.00 | 0.00 | 1.00 | 0.00 | 100.04 | 127.45 | 2.00 | 0.00 | 1.00 | 0.00 |
| 100.14 | 116.89 | 2.00 | 0.00 | 1.00 | 0.00 | 100.14 | 106.43 | 2.00 | 0.00 | 1.00 | 0.00 |
| 100.15 | 105.52 | 2.00 | 0.00 | 1.00 | 0.00 | 100.19 | 111.71 | 2.00 | 0.00 | 1.00 | 0.00 |
| 100.21 | 119.29 | 2.00 | 0.00 | 1.00 | 0.00 | 100.24 | 108.37 | 2.00 | 0.00 | 1.00 | 0.00 |
| 100.28 | 106.62 | 2.00 | 0.00 | 1.00 | 0.00 | 100.31 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 100.33 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 100.38 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 100.39 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 100.43 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 100.48 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 100.53 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |
| 100.57 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 | 100.60 | -1.00 | 2.00 | 0.00 | 1.00 | 0.00 |

**:: Post-earthquake settlement due to soil liquefaction :: (continued)**

| Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) | Depth (ft) | $Q_{tn,cs}$ | FS | $e_v$ (%) | DF | Settlement (in) |
|---|---|---|---|---|---|---|---|---|---|---|---|

**Total estimated settlement: 1.40**

**Abbreviations**

| | |
|---|---|
| $Q_{tn,cs}$: | Equivalent clean sand normalized cone resistance |
| FS: | Factor of safety against liquefaction |
| $e_v$ (%): | Post-liquefaction volumentric strain |
| DF: | $e_v$ depth weighting factor |
| Settlement: | Calculated settlement |

**:: Strength loss calculation (Robertson (2009) ::**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 0.04 | 0.10 | 0.16 | 54.25 | 8.56 | 4.06 | 18.21 | 3.82 |
| 0.10 | 0.13 | 0.21 | 54.25 | 11.25 | 4.06 | 10.48 | 2.18 |
| 0.11 | 0.23 | 0.37 | 54.25 | 19.92 | 4.06 | 9.43 | 3.40 |
| 0.16 | 0.54 | 0.85 | 54.25 | 46.18 | 4.06 | 6.91 | 5.55 |
| 0.19 | 1.28 | 2.04 | 26.86 | 54.86 | 3.64 | 5.54 | 10.68 |
| 0.24 | 2.83 | 4.54 | 12.41 | 56.29 | 3.19 | 4.85 | 19.02 |
| 0.31 | 4.93 | 7.89 | 7.08 | 55.92 | 2.89 | 0.08 | 0.64 |
| 0.38 | 6.68 | 10.70 | 5.13 | 54.91 | 2.74 | 0.08 | 0.64 |
| 0.43 | 7.56 | 12.11 | 4.55 | 55.04 | 2.68 | 0.08 | 0.64 |
| 0.49 | 7.32 | 11.72 | 4.88 | 57.26 | 2.72 | 0.09 | 0.65 |
| 0.58 | 6.81 | 10.90 | 5.56 | 60.65 | 2.78 | 0.12 | 0.66 |
| 0.63 | 6.24 | 9.98 | 6.53 | 65.19 | 2.85 | 0.17 | 0.67 |
| 0.67 | 6.05 | 9.68 | 7.19 | 69.56 | 2.90 | 0.25 | 0.68 |
| 0.72 | 6.02 | 9.62 | 7.57 | 72.80 | 2.92 | 0.32 | 0.69 |
| 0.72 | 6.70 | 10.70 | 7.32 | 78.32 | 2.91 | 0.51 | 0.70 |
| 0.84 | 9.28 | 14.84 | 5.43 | 80.63 | 2.77 | 0.62 | 0.71 |
| 0.96 | 15.82 | 25.35 | 2.97 | 75.23 | 2.50 | 0.39 | 0.70 |
| 1.06 | 22.64 | 36.29 | 2.02 | 73.35 | 2.32 | 0.34 | 0.69 |
| 1.24 | 27.97 | 44.84 | 1.65 | 74.08 | 2.21 | 0.36 | 0.69 |
| 1.30 | 31.48 | 50.47 | 1.49 | 75.12 | 2.14 | 0.39 | 0.70 |
| 1.48 | 37.28 | 59.78 | 1.34 | 80.22 | 2.04 | 0.59 | 0.71 |
| 1.59 | 42.14 | 67.57 | 1.29 | 87.16 | 1.98 | 0.72 | 0.72 |
| 1.69 | 47.40 | 76.02 | 1.26 | 95.52 | 1.93 | 0.74 | 0.74 |
| 1.69 | 49.80 | 79.87 | 1.25 | 99.55 | 1.91 | 0.75 | 0.75 |
| 1.74 | 53.24 | 85.40 | 1.22 | 104.46 | 1.88 | 0.76 | 0.76 |
| 1.79 | 53.78 | 86.26 | 1.22 | 105.40 | 1.88 | 0.76 | 0.76 |
| 1.84 | 52.90 | 84.84 | 1.23 | 104.08 | 1.89 | 0.76 | 0.76 |
| 1.88 | 51.25 | 82.18 | 1.23 | 101.34 | 1.89 | 0.75 | 0.75 |
| 1.93 | 49.46 | 79.31 | 1.24 | 98.11 | 1.90 | 0.74 | 0.74 |
| 1.99 | 48.69 | 78.06 | 1.23 | 96.29 | 1.90 | 0.74 | 0.74 |
| 2.03 | 48.08 | 77.07 | 1.23 | 94.90 | 1.89 | 0.74 | 0.74 |
| 2.08 | 47.67 | 76.42 | 1.23 | 93.98 | 1.89 | 0.74 | 0.74 |
| 2.13 | 46.86 | 75.11 | 1.23 | 92.67 | 1.90 | 0.73 | 0.73 |
| 2.22 | 45.85 | 73.48 | 1.24 | 91.09 | 1.90 | 0.73 | 0.73 |
| 2.27 | 44.97 | 72.07 | 1.24 | 89.70 | 1.91 | 0.73 | 0.73 |
| 2.33 | 44.77 | 71.74 | 1.24 | 89.16 | 1.91 | 0.73 | 0.73 |
| 2.42 | 45.44 | 72.81 | 1.24 | 89.96 | 1.90 | 0.73 | 0.73 |
| 2.48 | 46.73 | 74.86 | 1.22 | 91.66 | 1.88 | 0.73 | 0.73 |
| 2.56 | 48.41 | 77.57 | 1.21 | 94.03 | 1.86 | 0.74 | 0.74 |
| 2.65 | 49.43 | 79.19 | 1.21 | 95.47 | 1.86 | 0.74 | 0.74 |
| 2.72 | 48.72 | 78.04 | 1.21 | 94.74 | 1.87 | 0.74 | 0.74 |
| 2.80 | 46.02 | 73.70 | 1.23 | 90.99 | 1.90 | 0.73 | 0.73 |
| 2.89 | 42.44 | 67.94 | 1.26 | 85.67 | 1.94 | 0.72 | 0.72 |
| 2.94 | 39.03 | 62.46 | 1.29 | 80.64 | 1.98 | 0.62 | 0.71 |
| 3.04 | 35.90 | 57.42 | 1.32 | 76.04 | 2.02 | 0.42 | 0.70 |
| 3.14 | 32.32 | 51.66 | 1.37 | 70.91 | 2.07 | 0.27 | 0.69 |
| 3.23 | 29.01 | 46.34 | 1.42 | 65.97 | 2.10 | 0.18 | 0.67 |
| 3.31 | 25.74 | 41.07 | 1.50 | 61.64 | 2.15 | 0.13 | 0.66 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 3.37 | 23.04 | 36.73 | 1.59 | 58.33 | 2.19 | 0.10 | 0.65 |
| 3.48 | 20.38 | 32.44 | 1.71 | 55.35 | 2.23 | 0.08 | 0.64 |
| 3.57 | 18.79 | 29.89 | 1.76 | 52.71 | 2.25 | 0.06 | 0.63 |
| 3.65 | 18.02 | 28.64 | 1.78 | 50.93 | 2.26 | 0.06 | 0.63 |
| 3.71 | 18.02 | 28.64 | 1.77 | 50.70 | 2.26 | 0.06 | 0.63 |
| 3.82 | 18.63 | 29.60 | 1.77 | 52.47 | 2.26 | 0.06 | 0.63 |
| 3.91 | 20.18 | 32.09 | 1.71 | 54.73 | 2.23 | 0.07 | 0.64 |
| 4.00 | 22.81 | 36.30 | 1.60 | 58.22 | 2.20 | 0.10 | 0.65 |
| 4.10 | 26.38 | 42.04 | 1.41 | 59.10 | 2.09 | 0.11 | 0.65 |
| 4.19 | 31.21 | 49.79 | 1.00 | 49.79 | 1.98 | 0.05 | 0.62 |
| 4.26 | 37.92 | 60.57 | 1.00 | 60.57 | 1.86 | 0.12 | 0.66 |
| 4.35 | 45.62 | 72.92 | 1.00 | 72.92 | 1.79 | 0.32 | 0.69 |
| 4.44 | 49.80 | 79.63 | 1.00 | 79.63 | 1.77 | 0.57 | 0.71 |
| 4.52 | 51.39 | 82.17 | 1.00 | 82.17 | 1.76 | 0.70 | 0.71 |
| 4.53 | 52.26 | 83.58 | 1.00 | 83.58 | 1.76 | 0.72 | 0.72 |
| 4.58 | 55.03 | 88.02 | 1.00 | 88.02 | 1.73 | 0.72 | 0.72 |
| 4.63 | 57.76 | 92.41 | 1.00 | 92.41 | 1.71 | 0.73 | 0.73 |
| 4.68 | 58.84 | 94.14 | 1.00 | 94.14 | 1.70 | 0.74 | 0.74 |
| 4.72 | 59.28 | 94.84 | 1.00 | 94.84 | 1.71 | 0.74 | 0.74 |
| 4.77 | 59.08 | 94.51 | 1.00 | 94.51 | 1.72 | 0.74 | 0.74 |
| 4.82 | 58.07 | 92.88 | 1.00 | 92.88 | 1.73 | 0.73 | 0.73 |
| 4.88 | 56.21 | 89.89 | 1.00 | 89.89 | 1.76 | 0.73 | 0.73 |
| 4.96 | 53.61 | 85.71 | 1.14 | 97.96 | 1.79 | 0.74 | 0.74 |
| 5.01 | 50.54 | 80.78 | 1.18 | 95.67 | 1.83 | 0.74 | 0.74 |
| 5.08 | 47.44 | 75.78 | 1.22 | 92.32 | 1.87 | 0.73 | 0.73 |
| 5.16 | 44.81 | 71.55 | 1.24 | 88.93 | 1.91 | 0.73 | 0.73 |
| 5.21 | 43.27 | 69.07 | 1.26 | 86.85 | 1.93 | 0.72 | 0.72 |
| 5.30 | 42.68 | 68.12 | 1.26 | 86.01 | 1.94 | 0.72 | 0.72 |
| 5.37 | 42.65 | 68.06 | 1.26 | 85.96 | 1.94 | 0.72 | 0.72 |
| 5.45 | 42.70 | 68.13 | 1.26 | 86.01 | 1.94 | 0.72 | 0.72 |
| 5.52 | 42.44 | 67.72 | 1.26 | 85.64 | 1.94 | 0.72 | 0.72 |
| 5.59 | 41.70 | 66.52 | 1.27 | 84.54 | 1.95 | 0.72 | 0.72 |
| 5.65 | 40.15 | 64.02 | 1.28 | 82.25 | 1.97 | 0.70 | 0.71 |
| 5.74 | 38.46 | 61.30 | 1.30 | 79.83 | 1.99 | 0.58 | 0.71 |
| 5.83 | 37.08 | 59.07 | 1.32 | 77.99 | 2.02 | 0.49 | 0.70 |
| 5.89 | 36.30 | 57.82 | 1.33 | 77.16 | 2.03 | 0.46 | 0.70 |
| 5.97 | 35.66 | 56.79 | 1.35 | 76.43 | 2.04 | 0.43 | 0.70 |
| 6.07 | 34.52 | 54.94 | 1.37 | 75.11 | 2.06 | 0.39 | 0.70 |
| 6.12 | 32.56 | 51.79 | 1.41 | 73.14 | 2.10 | 0.33 | 0.69 |
| 6.22 | 29.76 | 47.28 | 1.51 | 71.19 | 2.15 | 0.28 | 0.69 |
| 6.28 | 26.56 | 42.13 | 1.67 | 70.33 | 2.22 | 0.26 | 0.68 |
| 6.36 | 23.45 | 37.14 | 1.90 | 70.41 | 2.29 | 0.26 | 0.68 |
| 6.46 | 21.29 | 33.66 | 2.09 | 70.43 | 2.34 | 0.26 | 0.68 |
| 6.52 | 20.72 | 32.73 | 2.06 | 67.56 | 2.33 | 0.21 | 0.68 |
| 6.60 | 22.07 | 34.89 | 1.79 | 62.55 | 2.26 | 0.14 | 0.66 |
| 6.70 | 23.55 | 37.27 | 1.57 | 58.59 | 2.18 | 0.10 | 0.65 |
| 6.76 | 23.01 | 36.39 | 1.55 | 56.58 | 2.17 | 0.09 | 0.65 |
| 6.84 | 19.64 | 30.96 | 1.81 | 55.94 | 2.27 | 0.08 | 0.64 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 6.94 | 14.91 | 23.37 | 2.60 | 60.83 | 2.44 | 0.12 | 0.66 |
| 7.03 | 10.86 | 16.85 | 4.02 | 67.75 | 2.63 | 0.21 | 0.68 |
| 7.13 | 8.23 | 12.62 | 5.71 | 72.04 | 2.79 | 0.30 | 0.69 |
| 7.19 | 6.62 | 10.02 | 6.93 | 69.39 | 2.88 | 0.24 | 0.68 |
| 7.32 | 5.77 | 8.65 | 6.87 | 59.40 | 2.88 | 0.11 | 0.65 |
| 7.42 | 5.17 | 7.67 | 5.87 | 44.99 | 2.80 | 0.04 | 0.62 |
| 7.49 | 4.93 | 7.28 | 4.02 | 29.29 | 2.63 | 0.02 | 0.62 |
| 7.57 | 4.73 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 7.66 | 4.56 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 7.76 | 4.44 | 6.47 | 4.48 | 29.00 | 2.68 | 0.02 | 0.62 |
| 7.77 | 4.39 | 6.39 | 4.95 | 31.63 | 2.72 | 0.02 | 0.62 |
| 7.78 | 4.42 | 6.44 | 5.05 | 32.53 | 2.73 | 0.02 | 0.62 |
| 7.82 | 4.44 | 6.47 | 5.36 | 34.69 | 2.76 | 0.02 | 0.62 |
| 7.87 | 4.45 | 6.49 | 5.86 | 38.07 | 2.80 | 0.03 | 0.62 |
| 7.92 | 4.45 | 6.49 | 6.45 | 41.83 | 2.85 | 0.03 | 0.62 |
| 7.97 | 4.49 | 6.54 | 6.96 | 45.53 | 2.88 | 0.04 | 0.62 |
| 8.01 | 4.59 | 6.70 | 7.41 | 49.66 | 2.91 | 0.05 | 0.62 |
| 8.06 | 4.76 | 6.97 | 7.58 | 52.81 | 2.92 | 0.06 | 0.63 |
| 8.11 | 4.93 | 7.24 | 7.65 | 55.42 | 2.93 | 0.08 | 0.64 |
| 8.20 | 5.06 | 7.45 | 7.68 | 57.24 | 2.93 | 0.09 | 0.65 |
| 8.26 | 5.16 | 7.60 | 7.84 | 59.63 | 2.94 | 0.11 | 0.66 |
| 8.35 | 5.23 | 7.70 | 7.98 | 61.50 | 2.95 | 0.13 | 0.66 |
| 8.40 | 5.30 | 7.81 | 8.02 | 62.65 | 2.95 | 0.14 | 0.66 |
| 8.49 | 5.37 | 7.91 | 7.96 | 62.99 | 2.95 | 0.14 | 0.66 |
| 8.54 | 5.51 | 8.13 | 7.81 | 63.54 | 2.94 | 0.15 | 0.67 |
| 8.64 | 5.71 | 8.45 | 7.58 | 64.06 | 2.93 | 0.16 | 0.67 |
| 8.69 | 5.91 | 8.77 | 7.37 | 64.63 | 2.91 | 0.16 | 0.67 |
| 8.79 | 6.18 | 9.19 | 7.46 | 68.57 | 2.92 | 0.23 | 0.68 |
| 8.84 | 6.48 | 9.68 | 7.59 | 73.49 | 2.93 | 0.34 | 0.69 |
| 8.93 | 6.89 | 10.32 | 7.50 | 77.37 | 2.92 | 0.47 | 0.70 |
| 9.03 | 7.13 | 10.69 | 7.46 | 79.83 | 2.92 | 0.58 | 0.71 |
| 9.08 | 7.21 | 10.83 | 7.52 | 81.47 | 2.92 | 0.66 | 0.71 |
| 9.11 | 7.16 | 10.75 | 7.78 | 83.66 | 2.94 | 0.72 | 0.72 |
| 9.12 | 7.13 | 10.69 | 7.89 | 84.32 | 2.95 | 0.72 | 0.72 |
| 9.17 | 7.07 | 10.60 | 8.03 | 85.13 | 2.95 | 0.72 | 0.72 |
| 9.22 | 7.12 | 10.67 | 8.09 | 86.32 | 2.96 | 0.72 | 0.72 |
| 9.31 | 6.92 | 10.34 | 8.56 | 88.56 | 2.99 | 0.73 | 0.73 |
| 9.36 | 7.16 | 10.72 | 8.37 | 89.76 | 2.98 | 0.73 | 0.73 |
| 9.40 | 7.46 | 11.20 | 8.04 | 90.10 | 2.95 | 0.73 | 0.73 |
| 9.46 | 8.14 | 12.28 | 7.25 | 89.07 | 2.90 | 0.73 | 0.73 |
| 9.51 | 8.47 | 12.82 | 6.92 | 88.75 | 2.88 | 0.73 | 0.73 |
| 9.55 | 8.78 | 13.30 | 6.70 | 89.10 | 2.86 | 0.73 | 0.73 |
| 9.61 | 8.98 | 13.63 | 6.65 | 90.65 | 2.86 | 0.73 | 0.73 |
| 9.69 | 9.12 | 13.84 | 6.73 | 93.09 | 2.87 | 0.73 | 0.73 |
| 9.74 | 9.18 | 13.94 | 6.87 | 95.71 | 2.88 | 0.74 | 0.74 |
| 9.81 | 9.39 | 14.26 | 6.85 | 97.70 | 2.88 | 0.74 | 0.74 |
| 9.89 | 9.76 | 14.85 | 6.62 | 98.33 | 2.86 | 0.74 | 0.74 |
| 9.94 | 10.06 | 15.33 | 6.42 | 98.43 | 2.84 | 0.75 | 0.75 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 10.03 | 10.23 | 15.59 | 6.28 | 97.94 | 2.83 | 0.74 | 0.74 |
| 10.08 | 10.23 | 15.59 | 5.91 | 92.18 | 2.80 | 0.73 | 0.73 |
| 10.18 | 10.23 | 15.58 | 5.40 | 84.12 | 2.76 | 0.72 | 0.72 |
| 10.23 | 10.23 | 15.58 | 5.05 | 78.62 | 2.73 | 0.52 | 0.70 |
| 10.33 | 10.23 | 15.57 | 5.17 | 80.55 | 2.74 | 0.61 | 0.71 |
| 10.40 | 10.23 | 15.56 | 5.54 | 86.20 | 2.77 | 0.72 | 0.72 |
| 10.47 | 10.08 | 15.32 | 5.91 | 90.44 | 2.80 | 0.73 | 0.73 |
| 10.51 | 10.06 | 15.28 | 6.18 | 94.42 | 2.83 | 0.74 | 0.74 |
| 10.56 | 10.03 | 15.23 | 6.41 | 97.63 | 2.84 | 0.74 | 0.74 |
| 10.61 | 10.21 | 15.52 | 6.51 | 100.97 | 2.85 | 0.75 | 0.75 |
| 10.67 | 10.16 | 15.43 | 6.88 | 106.14 | 2.88 | 0.76 | 0.76 |
| 10.75 | 10.13 | 15.37 | 7.21 | 110.80 | 2.90 | 0.77 | 0.77 |
| 10.80 | 9.99 | 15.15 | 7.50 | 113.70 | 2.92 | 0.77 | 0.77 |
| 10.85 | 9.89 | 14.99 | 7.63 | 114.35 | 2.93 | 0.77 | 0.77 |
| 10.90 | 9.72 | 14.71 | 7.82 | 115.05 | 2.94 | 0.77 | 0.77 |
| 11.00 | 9.45 | 14.27 | 8.13 | 116.05 | 2.96 | 0.78 | 0.78 |
| 11.05 | 9.05 | 13.61 | 8.55 | 116.32 | 2.99 | 0.78 | 0.78 |
| 11.14 | 8.61 | 12.90 | 9.04 | 116.64 | 3.01 | 0.62 | 0.99 |
| 11.21 | 8.27 | 12.36 | 9.53 | 117.80 | 3.04 | 0.62 | 0.94 |
| 11.29 | 8.24 | 12.30 | 9.66 | 118.79 | 3.05 | 0.65 | 0.93 |
| 11.38 | 8.41 | 12.56 | 9.53 | 119.67 | 3.04 | 0.63 | 0.94 |
| 11.46 | 8.68 | 12.98 | 9.18 | 119.19 | 3.02 | 0.64 | 0.97 |
| 11.52 | 8.88 | 13.30 | 8.96 | 119.26 | 3.01 | 0.64 | 0.98 |
| 11.60 | 8.98 | 13.46 | 8.85 | 119.12 | 3.00 | 0.64 | 0.99 |
| 11.67 | 9.05 | 13.56 | 8.79 | 119.24 | 3.00 | 0.64 | 0.99 |
| 11.72 | 9.12 | 13.67 | 8.75 | 119.52 | 3.00 | 0.78 | 0.78 |
| 11.81 | 9.32 | 13.98 | 8.54 | 119.37 | 2.99 | 0.78 | 0.78 |
| 11.86 | 9.35 | 14.03 | 8.52 | 119.54 | 2.98 | 0.78 | 0.78 |
| 11.96 | 9.42 | 14.07 | 8.48 | 119.37 | 2.98 | 0.78 | 0.78 |
| 12.01 | 9.45 | 14.06 | 8.50 | 119.58 | 2.98 | 0.78 | 0.78 |
| 12.10 | 9.69 | 13.55 | 8.25 | 111.75 | 2.97 | 0.77 | 0.77 |
| 12.16 | 10.07 | 13.97 | 7.41 | 103.51 | 2.91 | 0.75 | 0.75 |
| 12.24 | 10.47 | 14.38 | 6.85 | 98.49 | 2.88 | 0.75 | 0.75 |
| 12.32 | 10.87 | 14.89 | 6.86 | 102.09 | 2.88 | 0.75 | 0.75 |
| 12.39 | 11.18 | 15.29 | 7.16 | 109.53 | 2.90 | 0.77 | 0.77 |
| 12.48 | 10.64 | 14.47 | 7.97 | 115.36 | 2.95 | 0.78 | 0.78 |
| 12.50 | 10.23 | 14.64 | 8.30 | 121.50 | 2.97 | 0.79 | 0.79 |
| 12.54 | 10.74 | 14.58 | 8.20 | 119.55 | 2.96 | 0.78 | 0.78 |
| 12.64 | 12.36 | 16.65 | 7.01 | 116.68 | 2.89 | 0.78 | 0.78 |
| 12.68 | 14.04 | 18.79 | 6.01 | 113.05 | 2.81 | 0.77 | 0.77 |
| 12.77 | 14.72 | 19.54 | 5.64 | 110.30 | 2.78 | 0.77 | 0.77 |
| 12.82 | 14.75 | 19.48 | 5.55 | 108.15 | 2.78 | 0.76 | 0.76 |
| 12.89 | 14.21 | 18.67 | 5.71 | 106.60 | 2.79 | 0.76 | 0.76 |
| 12.97 | 13.37 | 17.49 | 6.13 | 107.25 | 2.82 | 0.76 | 0.76 |
| 13.03 | 12.49 | 16.30 | 6.66 | 108.51 | 2.86 | 0.76 | 0.76 |
| 13.12 | 11.72 | 15.20 | 7.22 | 109.85 | 2.90 | 0.77 | 0.77 |
| 13.16 | 11.21 | 14.50 | 7.58 | 109.96 | 2.93 | 0.77 | 0.77 |
| 13.26 | 10.91 | 13.99 | 7.68 | 107.43 | 2.93 | 0.76 | 0.76 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 13.34 | 10.84 | 13.79 | 7.45 | 102.72 | 2.92 | 0.75 | 0.75 |
| 13.41 | 10.74 | 13.56 | 7.18 | 97.27 | 2.90 | 0.74 | 0.74 |
| 13.50 | 10.60 | 13.27 | 7.10 | 94.19 | 2.89 | 0.74 | 0.74 |
| 13.60 | 10.33 | 12.84 | 7.26 | 93.25 | 2.90 | 0.74 | 0.74 |
| 13.65 | 10.13 | 12.55 | 7.49 | 94.05 | 2.92 | 0.74 | 0.74 |
| 13.75 | 10.03 | 12.35 | 7.71 | 95.17 | 2.93 | 0.74 | 0.74 |
| 13.80 | 10.10 | 12.37 | 7.57 | 93.67 | 2.92 | 0.74 | 0.74 |
| 13.89 | 10.23 | 12.47 | 7.55 | 94.18 | 2.92 | 0.74 | 0.74 |
| 13.94 | 10.63 | 12.95 | 7.46 | 96.59 | 2.92 | 0.74 | 0.74 |
| 14.03 | 10.80 | 13.13 | 7.91 | 103.87 | 2.95 | 0.76 | 0.76 |
| 14.11 | 11.23 | 13.59 | 7.98 | 108.45 | 2.95 | 0.76 | 0.76 |
| 14.13 | 11.53 | 13.97 | 7.99 | 111.61 | 2.95 | 0.77 | 0.77 |
| 14.18 | 12.27 | 14.85 | 7.55 | 112.19 | 2.92 | 0.77 | 0.77 |
| 14.22 | 12.83 | 15.50 | 7.35 | 113.98 | 2.91 | 0.77 | 0.77 |
| 14.28 | 13.44 | 16.19 | 7.18 | 116.20 | 2.90 | 0.78 | 0.78 |
| 14.37 | 14.01 | 16.81 | 7.06 | 118.62 | 2.89 | 0.78 | 0.78 |
| 14.44 | 14.79 | 17.68 | 6.80 | 120.24 | 2.87 | 0.78 | 0.78 |
| 14.51 | 15.63 | 18.60 | 6.50 | 120.95 | 2.85 | 0.78 | 0.78 |
| 14.60 | 16.31 | 19.30 | 6.30 | 121.55 | 2.83 | 0.79 | 0.79 |
| 14.65 | 16.58 | 19.57 | 6.28 | 122.89 | 2.83 | 0.79 | 0.79 |
| 14.75 | 16.56 | 19.44 | 6.39 | 124.23 | 2.84 | 0.79 | 0.79 |
| 14.85 | 16.48 | 19.22 | 6.50 | 124.95 | 2.85 | 0.79 | 0.79 |
| 14.91 | 16.44 | 19.11 | 6.54 | 124.89 | 2.85 | 0.79 | 0.79 |
| 14.99 | 17.00 | 19.64 | 6.25 | 122.73 | 2.83 | 0.79 | 0.79 |
| 15.09 | 18.30 | 21.01 | 5.69 | 119.59 | 2.79 | 0.78 | 0.78 |
| 15.18 | 20.29 | 23.13 | 4.94 | 114.33 | 2.72 | 0.77 | 0.77 |
| 15.25 | 22.28 | 25.25 | 4.26 | 107.53 | 2.66 | 0.76 | 0.76 |
| 15.33 | 24.50 | 27.58 | 3.60 | 99.22 | 2.58 | 0.75 | 0.75 |
| 15.43 | 27.51 | 30.70 | 2.96 | 90.92 | 2.50 | 0.73 | 0.73 |
| 15.51 | 31.32 | 34.70 | 2.45 | 84.95 | 2.41 | 0.72 | 0.72 |
| 15.59 | 34.63 | 38.13 | 2.14 | 81.77 | 2.35 | 0.68 | 0.71 |
| 15.67 | 36.18 | 39.65 | 2.03 | 80.65 | 2.33 | 0.62 | 0.71 |
| 15.76 | 35.13 | 38.36 | 2.14 | 81.98 | 2.35 | 0.69 | 0.71 |
| 15.86 | 32.03 | 34.86 | 2.45 | 85.36 | 2.41 | 0.72 | 0.72 |
| 15.95 | 27.64 | 30.01 | 3.03 | 90.95 | 2.51 | 0.73 | 0.73 |
| 16.05 | 23.08 | 24.94 | 3.85 | 95.91 | 2.61 | 0.74 | 0.74 |
| 16.14 | 19.31 | 20.73 | 4.79 | 99.32 | 2.71 | 0.75 | 0.75 |
| 16.20 | 16.85 | 17.98 | 5.55 | 99.84 | 2.78 | 0.75 | 0.75 |
| 16.28 | 15.33 | 16.24 | 6.13 | 99.52 | 2.82 | 0.75 | 0.75 |
| 16.34 | 14.21 | 14.97 | 6.52 | 97.62 | 2.85 | 0.74 | 0.74 |
| 16.44 | 12.93 | 13.48 | 7.12 | 95.96 | 2.89 | 0.74 | 0.74 |
| 16.50 | 11.61 | 12.00 | 7.73 | 92.73 | 2.93 | 0.73 | 0.73 |
| 16.58 | 10.17 | 10.54 | 8.19 | 86.31 | 2.96 | 0.72 | 0.72 |
| 16.73 | 8.75 | 8.85 | 8.43 | 74.57 | 2.98 | 0.37 | 0.69 |
| 16.82 | 7.60 | 7.51 | 8.14 | 61.14 | 2.96 | 0.12 | 0.66 |
| 16.92 | 7.06 | 6.86 | 8.35 | 57.29 | 2.97 | 0.09 | 0.65 |
| 17.01 | 6.56 | 6.26 | 10.33 | 64.67 | 3.09 | 0.13 | 0.45 |
| 17.11 | 6.20 | 5.84 | 12.54 | 73.17 | 3.19 | 0.19 | 0.42 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 17.12 | 5.73 | 5.31 | 14.74 | 78.30 | 3.28 | 0.20 | 0.38 |
| 17.14 | 6.34 | 5.97 | 13.44 | 80.31 | 3.23 | 0.21 | 0.43 |
| 17.19 | 7.13 | 6.82 | 12.15 | 82.92 | 3.17 | 0.24 | 0.49 |
| 17.28 | 7.94 | 7.67 | 11.16 | 85.58 | 3.13 | 0.27 | 0.55 |
| 17.33 | 8.01 | 7.71 | 11.48 | 88.52 | 3.14 | 0.29 | 0.55 |
| 17.43 | 7.87 | 7.52 | 11.93 | 89.67 | 3.16 | 0.30 | 0.54 |
| 17.47 | 7.74 | 7.35 | 12.03 | 88.37 | 3.17 | 0.29 | 0.52 |
| 17.57 | 7.57 | 7.12 | 11.95 | 85.14 | 3.16 | 0.25 | 0.51 |
| 17.65 | 7.47 | 6.98 | 11.70 | 81.63 | 3.15 | 0.23 | 0.50 |
| 17.72 | 7.40 | 6.88 | 11.84 | 81.46 | 3.16 | 0.22 | 0.49 |
| 17.81 | 7.57 | 7.02 | 11.86 | 83.22 | 3.16 | 0.25 | 0.50 |
| 17.86 | 7.87 | 7.32 | 11.98 | 87.65 | 3.17 | 0.27 | 0.52 |
| 17.95 | 8.31 | 7.73 | 11.95 | 92.32 | 3.16 | 0.32 | 0.55 |
| 18.05 | 8.78 | 8.18 | 11.81 | 96.52 | 3.16 | 0.36 | 0.58 |
| 18.10 | 9.22 | 8.61 | 11.67 | 100.43 | 3.15 | 0.38 | 0.61 |
| 18.20 | 9.66 | 9.01 | 11.52 | 103.80 | 3.14 | 0.42 | 0.64 |
| 18.30 | 9.90 | 9.20 | 11.60 | 106.76 | 3.15 | 0.46 | 0.66 |
| 18.39 | 10.13 | 9.38 | 11.50 | 107.91 | 3.14 | 0.46 | 0.67 |
| 18.48 | 10.27 | 9.47 | 11.38 | 107.71 | 3.14 | 0.46 | 0.68 |
| 18.58 | 10.30 | 9.44 | 11.38 | 107.46 | 3.14 | 0.46 | 0.67 |
| 18.66 | 10.20 | 9.30 | 11.49 | 106.87 | 3.14 | 0.45 | 0.66 |
| 18.74 | 10.07 | 9.12 | 11.49 | 104.74 | 3.14 | 0.44 | 0.65 |
| 18.87 | 9.90 | 8.88 | 10.73 | 95.26 | 3.11 | 0.39 | 0.63 |
| 18.97 | 9.66 | 8.59 | 10.09 | 86.69 | 3.07 | 0.22 | 0.61 |
| 19.06 | 9.56 | 8.45 | 9.58 | 80.90 | 3.05 | 0.24 | 0.60 |
| 19.16 | 9.83 | 8.66 | 9.84 | 85.25 | 3.06 | 0.27 | 0.62 |
| 19.25 | 10.13 | 8.91 | 9.93 | 88.50 | 3.06 | 0.31 | 0.64 |
| 19.27 | 10.23 | 9.00 | 10.18 | 91.69 | 3.08 | 0.31 | 0.64 |
| 19.30 | 10.37 | 9.12 | 10.39 | 94.70 | 3.09 | 0.34 | 0.65 |
| 19.34 | 10.57 | 9.29 | 10.57 | 98.19 | 3.10 | 0.38 | 0.66 |
| 19.39 | 10.84 | 9.53 | 10.50 | 100.00 | 3.09 | 0.40 | 0.68 |
| 19.49 | 10.78 | 9.41 | 10.57 | 99.51 | 3.10 | 0.39 | 0.67 |
| 19.55 | 10.51 | 9.12 | 10.70 | 97.54 | 3.10 | 0.37 | 0.65 |
| 19.63 | 10.17 | 8.75 | 10.86 | 95.04 | 3.11 | 0.34 | 0.63 |
| 19.68 | 9.87 | 8.43 | 10.91 | 92.04 | 3.11 | 0.32 | 0.60 |
| 19.74 | 9.77 | 8.31 | 10.69 | 88.83 | 3.10 | 0.29 | 0.59 |
| 19.83 | 9.73 | 8.24 | 10.61 | 87.40 | 3.10 | 0.27 | 0.59 |
| 19.87 | 9.73 | 8.22 | 10.55 | 86.67 | 3.10 | 0.29 | 0.59 |
| 19.94 | 9.73 | 8.19 | 10.80 | 88.39 | 3.11 | 0.27 | 0.58 |
| 20.02 | 9.80 | 8.21 | 11.04 | 90.64 | 3.12 | 0.31 | 0.59 |
| 20.07 | 10.17 | 8.54 | 11.28 | 96.33 | 3.13 | 0.34 | 0.61 |
| 20.17 | 11.42 | 9.65 | 10.38 | 100.21 | 3.09 | 0.41 | 0.69 |
| 20.21 | 14.18 | 12.20 | 8.30 | 101.25 | 2.97 | 0.75 | 0.75 |
| 20.28 | 18.74 | 16.43 | 5.92 | 97.16 | 2.80 | 0.74 | 0.74 |
| 20.36 | 24.88 | 22.08 | 4.11 | 90.84 | 2.64 | 0.73 | 0.73 |
| 20.41 | 31.73 | 28.40 | 3.02 | 85.89 | 2.51 | 0.72 | 0.72 |
| 20.48 | 38.64 | 34.74 | 2.39 | 83.15 | 2.40 | 0.71 | 0.71 |
| 20.55 | 44.99 | 40.52 | 2.02 | 82.00 | 2.33 | 0.69 | 0.71 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 20.60 | 49.88 | 44.99 | 1.82 | 81.90 | 2.27 | 0.68 | 0.71 |
| 20.70 | 52.55 | 47.28 | 1.74 | 82.23 | 2.25 | 0.70 | 0.71 |
| 20.74 | 52.68 | 47.32 | 1.75 | 82.97 | 2.25 | 0.71 | 0.71 |
| 20.79 | 51.17 | 45.83 | 1.84 | 84.31 | 2.28 | 0.72 | 0.72 |
| 20.89 | 48.70 | 43.39 | 2.03 | 87.95 | 2.33 | 0.72 | 0.72 |
| 20.96 | 46.86 | 41.58 | 2.06 | 85.66 | 2.33 | 0.72 | 0.72 |
| 21.04 | 45.83 | 40.52 | 2.09 | 84.84 | 2.34 | 0.72 | 0.72 |
| 21.13 | 45.80 | 40.36 | 2.05 | 82.71 | 2.33 | 0.71 | 0.71 |
| 21.22 | 49.22 | 43.31 | 1.97 | 85.52 | 2.31 | 0.72 | 0.72 |
| 21.29 | 52.71 | 46.38 | 1.86 | 86.23 | 2.28 | 0.72 | 0.72 |
| 21.35 | 62.13 | 54.84 | 1.58 | 86.56 | 2.19 | 0.72 | 0.72 |
| 21.37 | 71.37 | 63.21 | 1.42 | 89.97 | 2.10 | 0.73 | 0.73 |
| 21.42 | 83.72 | 74.37 | 1.31 | 97.64 | 2.01 | 0.74 | 0.74 |
| 21.47 | 92.73 | 82.47 | 1.27 | 104.48 | 1.95 | 0.76 | 0.76 |
| 21.48 | 100.66 | 89.69 | 1.23 | 110.65 | 1.90 | 0.77 | 0.77 |
| 21.52 | 107.37 | 95.73 | 1.20 | 115.32 | 1.85 | 0.78 | 0.78 |
| 21.57 | 113.24 | 100.98 | 1.17 | 118.63 | 1.82 | 0.78 | 0.78 |
| 21.62 | 118.81 | 105.91 | 1.14 | 120.85 | 1.79 | 0.78 | 0.78 |
| 21.66 | 124.00 | 110.52 | 1.10 | 122.11 | 1.76 | 0.79 | 0.79 |
| 21.71 | 128.79 | 114.75 | 1.07 | 122.79 | 1.74 | 0.79 | 0.79 |
| 21.76 | 132.64 | 118.10 | 1.04 | 123.42 | 1.73 | 0.79 | 0.79 |
| 21.81 | 135.34 | 120.38 | 1.03 | 124.51 | 1.72 | 0.79 | 0.79 |
| 21.85 | 136.99 | 121.70 | 1.04 | 126.15 | 1.72 | 0.79 | 0.79 |
| 21.91 | 137.80 | 122.24 | 1.05 | 127.87 | 1.73 | 0.80 | 0.80 |
| 21.95 | 138.11 | 122.32 | 1.06 | 129.40 | 1.73 | 0.80 | 0.80 |
| 22.00 | 138.24 | 122.26 | 1.07 | 130.49 | 1.74 | 0.80 | 0.80 |
| 22.05 | 138.18 | 122.02 | 1.08 | 131.33 | 1.75 | 0.80 | 0.80 |
| 22.10 | 138.24 | 121.90 | 1.08 | 132.00 | 1.75 | 0.80 | 0.80 |
| 22.15 | 138.31 | 121.77 | 1.09 | 132.56 | 1.75 | 0.80 | 0.80 |
| 22.19 | 138.68 | 121.94 | 1.09 | 133.12 | 1.75 | 0.80 | 0.80 |
| 22.24 | 139.25 | 122.24 | 1.11 | 135.35 | 1.76 | 0.81 | 0.81 |
| 22.29 | 139.86 | 122.58 | 1.11 | 136.60 | 1.77 | 0.81 | 0.81 |
| 22.34 | 140.20 | 122.70 | 1.12 | 137.16 | 1.77 | 0.81 | 0.81 |
| 22.39 | 140.06 | 122.45 | 1.11 | 135.89 | 1.77 | 0.81 | 0.81 |
| 22.43 | 139.42 | 121.72 | 1.11 | 135.26 | 1.77 | 0.81 | 0.81 |
| 22.48 | 138.34 | 120.56 | 1.12 | 135.08 | 1.77 | 0.81 | 0.81 |
| 22.55 | 136.79 | 118.95 | 1.13 | 134.76 | 1.78 | 0.81 | 0.81 |
| 22.62 | 130.08 | 112.68 | 1.17 | 131.90 | 1.82 | 0.80 | 0.80 |
| 22.63 | 127.95 | 110.75 | 1.18 | 130.57 | 1.83 | 0.80 | 0.80 |
| 22.72 | 125.56 | 108.31 | 1.19 | 128.61 | 1.83 | 0.80 | 0.80 |
| 22.77 | 128.09 | 110.46 | 1.17 | 129.57 | 1.82 | 0.80 | 0.80 |
| 22.83 | 126.13 | 108.51 | 1.19 | 128.59 | 1.83 | 0.80 | 0.80 |
| 22.91 | 124.21 | 106.52 | 1.20 | 127.55 | 1.85 | 0.79 | 0.79 |
| 22.96 | 121.74 | 104.15 | 1.21 | 126.09 | 1.86 | 0.79 | 0.79 |
| 23.02 | 118.20 | 100.84 | 1.22 | 123.45 | 1.88 | 0.79 | 0.79 |
| 23.10 | 113.85 | 96.74 | 1.24 | 119.96 | 1.90 | 0.78 | 0.78 |
| 23.16 | 108.42 | 91.79 | 1.26 | 115.60 | 1.93 | 0.78 | 0.78 |
| 23.20 | 102.21 | 86.20 | 1.28 | 110.62 | 1.97 | 0.77 | 0.77 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 23.26 | 95.46 | 80.15 | 1.31 | 105.23 | 2.01 | 0.76 | 0.76 |
| 23.35 | 88.68 | 74.00 | 1.36 | 100.36 | 2.05 | 0.75 | 0.75 |
| 23.39 | 81.66 | 67.80 | 1.42 | 95.97 | 2.10 | 0.74 | 0.74 |
| 23.48 | 74.68 | 61.55 | 1.51 | 93.11 | 2.15 | 0.73 | 0.73 |
| 23.54 | 68.33 | 55.99 | 1.61 | 90.41 | 2.20 | 0.73 | 0.73 |
| 23.63 | 63.44 | 51.67 | 1.69 | 87.24 | 2.23 | 0.72 | 0.72 |
| 23.69 | 60.07 | 48.84 | 1.63 | 79.68 | 2.21 | 0.57 | 0.71 |
| 23.78 | 58.37 | 47.34 | 1.59 | 75.09 | 2.19 | 0.39 | 0.70 |
| 23.87 | 57.71 | 46.70 | 1.56 | 72.76 | 2.18 | 0.32 | 0.69 |
| 23.88 | 57.81 | 46.69 | 1.62 | 75.51 | 2.20 | 0.40 | 0.70 |
| 23.93 | 57.42 | 46.23 | 1.69 | 78.05 | 2.23 | 0.50 | 0.70 |
| 24.02 | 57.22 | 45.85 | 1.76 | 80.73 | 2.25 | 0.62 | 0.71 |
| 24.04 | 56.97 | 45.57 | 1.82 | 82.98 | 2.27 | 0.71 | 0.71 |
| 24.05 | 57.34 | 45.82 | 1.85 | 84.83 | 2.28 | 0.72 | 0.72 |
| 24.15 | 58.27 | 46.42 | 1.87 | 86.71 | 2.28 | 0.72 | 0.72 |
| 24.20 | 60.11 | 47.86 | 1.85 | 88.32 | 2.28 | 0.73 | 0.73 |
| 24.30 | 62.64 | 49.86 | 1.75 | 87.06 | 2.25 | 0.72 | 0.72 |
| 24.40 | 65.07 | 51.83 | 1.63 | 84.41 | 2.21 | 0.72 | 0.72 |
| 24.46 | 66.59 | 53.10 | 1.53 | 81.44 | 2.16 | 0.66 | 0.71 |
| 24.54 | 66.42 | 52.90 | 1.50 | 79.49 | 2.15 | 0.56 | 0.71 |
| 24.64 | 64.09 | 50.78 | 1.55 | 78.59 | 2.17 | 0.52 | 0.70 |
| 24.73 | 59.94 | 47.12 | 1.68 | 79.13 | 2.22 | 0.54 | 0.71 |
| 24.78 | 54.64 | 42.55 | 1.92 | 81.62 | 2.30 | 0.67 | 0.71 |
| 24.88 | 48.57 | 37.36 | 2.28 | 85.25 | 2.38 | 0.72 | 0.72 |
| 24.94 | 41.92 | 31.81 | 2.80 | 89.16 | 2.47 | 0.73 | 0.73 |
| 25.02 | 35.00 | 26.12 | 3.52 | 92.04 | 2.57 | 0.73 | 0.73 |
| 25.12 | 28.43 | 20.76 | 4.59 | 95.35 | 2.69 | 0.74 | 0.74 |
| 25.17 | 22.86 | 16.30 | 6.02 | 98.17 | 2.81 | 0.74 | 0.74 |
| 25.27 | 18.41 | 12.75 | 7.69 | 98.13 | 2.93 | 0.74 | 0.74 |
| 25.36 | 15.13 | 9.96 | 9.50 | 94.69 | 3.04 | 0.34 | 0.71 |
| 25.43 | 12.60 | 8.11 | 11.16 | 90.44 | 3.13 | 0.30 | 0.58 |
| 25.50 | 10.88 | 6.84 | 12.76 | 87.31 | 3.20 | 0.27 | 0.49 |
| 25.60 | 9.77 | 6.01 | 14.03 | 84.31 | 3.25 | 0.24 | 0.43 |
| 25.64 | 9.26 | 5.64 | 14.52 | 81.86 | 3.27 | 0.23 | 0.40 |
| 25.67 | 9.06 | 5.48 | 14.58 | 79.98 | 3.28 | 0.22 | 0.39 |
| 25.71 | 8.86 | 5.33 | 14.38 | 76.65 | 3.27 | 0.20 | 0.38 |
| 25.79 | 8.52 | 5.07 | 14.25 | 72.22 | 3.26 | 0.16 | 0.36 |
| 25.93 | 8.18 | 4.80 | 14.17 | 68.01 | 3.26 | 0.14 | 0.34 |
| 26.03 | 8.02 | 4.66 | 13.97 | 65.11 | 3.25 | 0.13 | 0.33 |
| 26.13 | 8.02 | 4.64 | 13.74 | 63.74 | 3.24 | 0.11 | 0.33 |
| 26.24 | 8.08 | 4.67 | 13.54 | 63.18 | 3.23 | 0.12 | 0.33 |
| 26.37 | 8.18 | 4.71 | 13.48 | 63.49 | 3.23 | 0.12 | 0.34 |
| 26.47 | 8.25 | 4.73 | 13.53 | 64.09 | 3.23 | 0.12 | 0.34 |
| 26.60 | 8.25 | 4.71 | 13.24 | 62.33 | 3.22 | 0.12 | 0.34 |
| 26.71 | 8.38 | 4.78 | 12.59 | 60.15 | 3.19 | 0.09 | 0.34 |
| 26.85 | 8.75 | 5.00 | 11.78 | 58.94 | 3.16 | 0.09 | 0.36 |
| 26.95 | 8.96 | 5.12 | 12.24 | 62.69 | 3.18 | 0.11 | 0.37 |
| 27.04 | 9.60 | 5.54 | 12.21 | 67.66 | 3.18 | 0.15 | 0.40 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 27.09 | 10.14 | 5.90 | 12.33 | 72.68 | 3.18 | 0.17 | 0.42 |
| 27.19 | 10.95 | 6.42 | 11.76 | 75.49 | 3.16 | 0.20 | 0.46 |
| 27.23 | 11.18 | 6.56 | 11.88 | 78.01 | 3.16 | 0.21 | 0.47 |
| 27.33 | 11.42 | 6.70 | 11.98 | 80.22 | 3.17 | 0.22 | 0.48 |
| 27.40 | 11.76 | 6.91 | 11.94 | 82.48 | 3.16 | 0.24 | 0.49 |
| 27.47 | 12.30 | 7.25 | 11.72 | 84.94 | 3.15 | 0.25 | 0.52 |
| 27.57 | 12.97 | 7.66 | 11.34 | 86.93 | 3.14 | 0.28 | 0.55 |
| 27.66 | 13.85 | 8.22 | 10.99 | 90.36 | 3.12 | 0.30 | 0.59 |
| 27.77 | 14.96 | 8.93 | 10.64 | 94.93 | 3.10 | 0.34 | 0.64 |
| 27.86 | 16.28 | 9.76 | 10.29 | 100.42 | 3.08 | 0.40 | 0.70 |
| 27.96 | 17.39 | 10.45 | 10.06 | 105.14 | 3.07 | 0.45 | 0.75 |
| 28.06 | 17.73 | 10.63 | 10.22 | 108.70 | 3.08 | 0.49 | 0.76 |
| 28.15 | 17.29 | 10.31 | 10.64 | 109.63 | 3.10 | 0.50 | 0.74 |
| 28.25 | 17.04 | 10.10 | 10.32 | 104.18 | 3.08 | 0.47 | 0.72 |
| 28.34 | 16.50 | 9.71 | 10.12 | 98.29 | 3.07 | 0.34 | 0.69 |
| 28.44 | 16.94 | 9.96 | 9.46 | 94.21 | 3.04 | 0.34 | 0.71 |
| 28.54 | 16.11 | 9.38 | 10.45 | 98.03 | 3.09 | 0.38 | 0.67 |
| 28.62 | 17.46 | 10.22 | 9.90 | 101.19 | 3.06 | 0.41 | 0.73 |
| 28.71 | 18.34 | 10.74 | 9.72 | 104.45 | 3.05 | 0.45 | 0.77 |
| 28.77 | 20.26 | 11.95 | 8.92 | 106.63 | 3.01 | 0.48 | 0.85 |
| 28.86 | 20.73 | 12.21 | 8.93 | 109.00 | 3.01 | 0.51 | 0.87 |
| 28.91 | 21.34 | 12.56 | 8.78 | 110.37 | 3.00 | 0.52 | 0.90 |
| 28.97 | 22.04 | 12.99 | 8.63 | 112.06 | 2.99 | 0.77 | 0.77 |
| 29.04 | 22.92 | 13.50 | 8.45 | 114.13 | 2.98 | 0.77 | 0.77 |
| 29.10 | 23.97 | 14.13 | 8.26 | 116.69 | 2.97 | 0.78 | 0.78 |
| 29.15 | 25.15 | 14.85 | 8.08 | 120.01 | 2.96 | 0.78 | 0.78 |
| 29.25 | 26.40 | 16.30 | 7.69 | 125.36 | 2.93 | 0.79 | 0.79 |
| 29.34 | 27.38 | 16.91 | 7.60 | 128.48 | 2.93 | 0.80 | 0.80 |
| 29.38 | 27.75 | 17.12 | 7.63 | 130.55 | 2.93 | 0.80 | 0.80 |
| 29.48 | 27.72 | 16.25 | 7.97 | 129.55 | 2.95 | 0.80 | 0.80 |
| 29.55 | 27.48 | 16.06 | 8.07 | 129.61 | 2.96 | 0.80 | 0.80 |
| 29.63 | 27.41 | 16.75 | 7.61 | 127.50 | 2.93 | 0.79 | 0.79 |
| 29.72 | 28.43 | 17.61 | 6.01 | 105.80 | 2.81 | 0.76 | 0.76 |
| 29.82 | 31.56 | 20.09 | 3.98 | 79.94 | 2.63 | 0.58 | 0.71 |
| 29.88 | 36.83 | 24.31 | 2.33 | 56.65 | 2.39 | 0.09 | 0.65 |
| 29.96 | 45.23 | 30.47 | 1.87 | 56.98 | 2.29 | 0.09 | 0.65 |
| 30.06 | 49.92 | 33.83 | 1.75 | 59.16 | 2.25 | 0.11 | 0.65 |
| 30.13 | 54.67 | 37.29 | 1.64 | 60.99 | 2.21 | 0.12 | 0.66 |
| 30.18 | 56.02 | 38.21 | 1.63 | 62.30 | 2.21 | 0.14 | 0.66 |
| 30.28 | 58.72 | 40.06 | 1.61 | 64.44 | 2.20 | 0.16 | 0.67 |
| 30.37 | 59.53 | 40.40 | 1.67 | 67.53 | 2.22 | 0.21 | 0.68 |
| 30.47 | 60.51 | 40.85 | 1.74 | 71.05 | 2.25 | 0.28 | 0.69 |
| 30.57 | 63.28 | 42.69 | 1.73 | 73.87 | 2.24 | 0.35 | 0.69 |
| 30.66 | 67.26 | 45.46 | 1.67 | 76.12 | 2.22 | 0.42 | 0.70 |
| 30.74 | 71.34 | 48.33 | 1.62 | 78.31 | 2.20 | 0.51 | 0.70 |
| 30.82 | 74.51 | 50.51 | 1.59 | 80.52 | 2.19 | 0.61 | 0.71 |
| 30.90 | 76.30 | 51.60 | 1.61 | 82.93 | 2.20 | 0.71 | 0.71 |
| 31.01 | 76.90 | 51.74 | 1.66 | 85.67 | 2.22 | 0.72 | 0.72 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 31.10 | 77.02 | 51.51 | 1.74 | 89.47 | 2.24 | 0.73 | 0.73 |
| 31.19 | 77.06 | 51.19 | 1.84 | 93.96 | 2.28 | 0.74 | 0.74 |
| 31.28 | 77.57 | 51.24 | 1.92 | 98.21 | 2.30 | 0.74 | 0.74 |
| 31.35 | 78.53 | 51.70 | 1.97 | 101.82 | 2.31 | 0.75 | 0.75 |
| 31.43 | 80.52 | 52.90 | 1.98 | 104.59 | 2.31 | 0.76 | 0.76 |
| 31.53 | 83.11 | 54.53 | 1.97 | 107.28 | 2.31 | 0.76 | 0.76 |
| 31.60 | 85.91 | 56.74 | 1.78 | 101.10 | 2.26 | 0.75 | 0.75 |
| 31.67 | 88.07 | 58.52 | 1.64 | 95.74 | 2.21 | 0.74 | 0.74 |
| 31.77 | 89.46 | 59.74 | 1.53 | 91.18 | 2.16 | 0.73 | 0.73 |
| 31.84 | 89.86 | 59.77 | 1.56 | 93.40 | 2.18 | 0.74 | 0.74 |
| 31.91 | 86.18 | 56.78 | 1.68 | 95.19 | 2.22 | 0.74 | 0.74 |
| 31.98 | 79.10 | 51.41 | 1.89 | 97.23 | 2.29 | 0.74 | 0.74 |
| 31.98 | 77.21 | 49.95 | 1.99 | 99.23 | 2.32 | 0.75 | 0.75 |
| 32.04 | 78.73 | 50.91 | 1.98 | 100.65 | 2.31 | 0.75 | 0.75 |
| 32.12 | 82.68 | 53.56 | 1.91 | 102.19 | 2.30 | 0.75 | 0.75 |
| 32.16 | 80.04 | 51.46 | 2.05 | 105.63 | 2.33 | 0.76 | 0.76 |
| 32.27 | 75.66 | 48.11 | 2.26 | 108.77 | 2.38 | 0.76 | 0.76 |
| 32.33 | 70.76 | 44.53 | 2.50 | 111.51 | 2.42 | 0.77 | 0.77 |
| 32.41 | 66.31 | 41.33 | 2.72 | 112.40 | 2.46 | 0.77 | 0.77 |
| 32.50 | 61.79 | 38.14 | 2.93 | 111.66 | 2.49 | 0.77 | 0.77 |
| 32.58 | 56.66 | 34.61 | 3.18 | 110.12 | 2.53 | 0.77 | 0.77 |
| 32.66 | 50.22 | 30.23 | 3.59 | 108.68 | 2.58 | 0.76 | 0.76 |
| 32.74 | 43.30 | 25.56 | 4.22 | 107.79 | 2.65 | 0.76 | 0.76 |
| 32.84 | 36.12 | 20.76 | 5.20 | 107.96 | 2.75 | 0.76 | 0.76 |
| 32.90 | 29.88 | 16.68 | 6.45 | 107.62 | 2.85 | 0.76 | 0.76 |
| 32.98 | 24.92 | 12.71 | 8.19 | 104.08 | 2.96 | 0.76 | 0.76 |
| 33.08 | 20.77 | 10.40 | 9.80 | 101.84 | 3.06 | 0.43 | 0.74 |
| 33.14 | 17.05 | 8.34 | 11.93 | 99.50 | 3.16 | 0.40 | 0.60 |
| 33.22 | 14.12 | 6.71 | 14.31 | 96.06 | 3.27 | 0.36 | 0.48 |
| 33.32 | 12.19 | 5.64 | 16.21 | 91.43 | 3.34 | 0.30 | 0.40 |
| 33.37 | 11.28 | 5.14 | 16.60 | 85.28 | 3.35 | 0.27 | 0.37 |
| 33.47 | 11.05 | 4.99 | 16.37 | 81.70 | 3.34 | 0.22 | 0.36 |
| 33.56 | 11.66 | 5.30 | 15.06 | 79.85 | 3.30 | 0.23 | 0.38 |
| 33.63 | 12.43 | 5.71 | 14.04 | 80.15 | 3.26 | 0.23 | 0.41 |
| 33.71 | 12.67 | 5.82 | 13.47 | 78.37 | 3.23 | 0.23 | 0.42 |
| 33.81 | 11.99 | 5.44 | 13.27 | 72.19 | 3.22 | 0.19 | 0.39 |
| 33.90 | 11.05 | 4.92 | 13.35 | 65.65 | 3.23 | 0.11 | 0.35 |
| 33.95 | 10.31 | 4.51 | 13.36 | 60.28 | 3.23 | 0.11 | 0.32 |
| 34.04 | 10.07 | 4.37 | 13.69 | 59.84 | 3.24 | 0.11 | 0.31 |
| 34.14 | 9.87 | 4.25 | 14.01 | 59.54 | 3.25 | 0.10 | 0.30 |
| 34.17 | 9.81 | 4.21 | 14.16 | 59.63 | 3.26 | 0.11 | 0.30 |
| 34.20 | 10.07 | 4.35 | 13.78 | 59.92 | 3.24 | 0.11 | 0.31 |
| 34.26 | 10.38 | 4.50 | 13.36 | 60.14 | 3.23 | 0.11 | 0.32 |
| 34.35 | 10.61 | 4.61 | 12.99 | 59.91 | 3.21 | 0.11 | 0.33 |
| 34.43 | 10.41 | 4.49 | 13.24 | 59.45 | 3.22 | 0.11 | 0.32 |
| 34.49 | 10.27 | 4.41 | 13.28 | 58.59 | 3.22 | 0.10 | 0.32 |
| 34.59 | 10.17 | 4.34 | 13.18 | 57.25 | 3.22 | 0.10 | 0.31 |
| 34.69 | 10.07 | 4.28 | 13.07 | 55.91 | 3.21 | 0.09 | 0.31 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 34.73 | 9.90 | 4.18 | 13.12 | 54.88 | 3.22 | 0.08 | 0.30 |
| 34.83 | 9.80 | 4.12 | 13.19 | 54.34 | 3.22 | 0.08 | 0.29 |
| 34.90 | 9.74 | 4.07 | 13.37 | 54.48 | 3.23 | 0.08 | 0.29 |
| 34.98 | 9.84 | 4.12 | 13.48 | 55.47 | 3.23 | 0.09 | 0.29 |
| 35.07 | 10.14 | 4.26 | 13.68 | 58.28 | 3.24 | 0.10 | 0.30 |
| 35.16 | 10.58 | 4.47 | 14.49 | 64.79 | 3.27 | 0.12 | 0.32 |
| 35.26 | 11.29 | 4.82 | 15.85 | 76.48 | 3.32 | 0.19 | 0.34 |
| 35.33 | 13.25 | 5.82 | 15.42 | 89.71 | 3.31 | 0.31 | 0.42 |
| 35.40 | 16.76 | 7.61 | 13.28 | 101.03 | 3.22 | 0.42 | 0.54 |
| 35.50 | 20.84 | 9.67 | 11.03 | 106.70 | 3.12 | 0.52 | 0.69 |
| 35.57 | 23.37 | 10.95 | 10.02 | 109.72 | 3.07 | 0.54 | 0.78 |
| 35.65 | 23.77 | 11.12 | 10.10 | 112.36 | 3.07 | 0.57 | 0.79 |
| 35.71 | 22.86 | 10.64 | 10.83 | 115.22 | 3.11 | 0.61 | 0.76 |
| 35.79 | 21.65 | 9.99 | 11.64 | 116.27 | 3.15 | 0.61 | 0.71 |
| 35.85 | 20.37 | 9.32 | 12.22 | 113.90 | 3.18 | 0.57 | 0.67 |
| 35.94 | 19.29 | 8.75 | 12.53 | 109.71 | 3.19 | 0.51 | 0.63 |
| 35.99 | 18.31 | 8.24 | 12.58 | 103.66 | 3.19 | 0.46 | 0.59 |
| 36.08 | 17.16 | 7.64 | 12.55 | 95.94 | 3.19 | 0.38 | 0.55 |
| 36.17 | 15.54 | 6.80 | 12.98 | 88.35 | 3.21 | 0.28 | 0.49 |
| 36.24 | 14.22 | 6.13 | 13.50 | 82.76 | 3.23 | 0.26 | 0.44 |
| 36.33 | 13.58 | 5.79 | 14.00 | 81.11 | 3.25 | 0.24 | 0.41 |
| 36.42 | 13.58 | 5.77 | 14.22 | 82.08 | 3.26 | 0.24 | 0.41 |
| 36.52 | 14.05 | 5.99 | 12.88 | 77.16 | 3.21 | 0.28 | 0.43 |
| 36.61 | 15.40 | 6.64 | 11.27 | 74.88 | 3.13 | 0.14 | 0.47 |
| 36.70 | 17.73 | 7.78 | 9.87 | 76.79 | 3.06 | 0.21 | 0.56 |
| 36.78 | 20.23 | 8.99 | 9.83 | 88.43 | 3.06 | 0.34 | 0.64 |
| 36.85 | 18.24 | 7.99 | 12.41 | 99.18 | 3.19 | 0.44 | 0.57 |
| 36.87 | 20.20 | 8.95 | 11.61 | 103.88 | 3.15 | 0.46 | 0.64 |
| 36.91 | 23.23 | 10.43 | 10.08 | 105.17 | 3.07 | 0.51 | 0.75 |
| 36.97 | 31.40 | 15.73 | 6.66 | 104.77 | 2.86 | 0.76 | 0.76 |
| 37.06 | 35.24 | 17.97 | 5.86 | 105.20 | 2.80 | 0.76 | 0.76 |
| 37.12 | 38.62 | 19.91 | 5.42 | 107.91 | 2.76 | 0.76 | 0.76 |
| 37.20 | 42.40 | 22.04 | 5.10 | 112.33 | 2.74 | 0.77 | 0.77 |
| 37.27 | 47.56 | 25.06 | 4.56 | 114.30 | 2.69 | 0.77 | 0.77 |
| 37.35 | 52.21 | 27.88 | 4.03 | 112.42 | 2.63 | 0.77 | 0.77 |
| 37.44 | 55.22 | 29.75 | 3.64 | 108.21 | 2.59 | 0.76 | 0.76 |
| 37.49 | 58.42 | 31.83 | 3.23 | 102.76 | 2.53 | 0.75 | 0.75 |
| 37.59 | 67.19 | 37.46 | 2.56 | 95.81 | 2.43 | 0.74 | 0.74 |
| 37.64 | 85.65 | 49.64 | 1.82 | 90.11 | 2.27 | 0.73 | 0.73 |
| 37.70 | 111.29 | 67.10 | 1.41 | 94.79 | 2.10 | 0.74 | 0.74 |
| 37.78 | 136.59 | 84.81 | 1.28 | 108.37 | 1.96 | 0.76 | 0.76 |
| 37.83 | 155.69 | 98.45 | 1.22 | 120.19 | 1.88 | 0.78 | 0.78 |
| 37.92 | 167.53 | 106.83 | 1.19 | 126.68 | 1.83 | 0.79 | 0.79 |
| 37.97 | 174.58 | 111.69 | 1.17 | 130.53 | 1.81 | 0.80 | 0.80 |
| 38.07 | 178.80 | 114.34 | 1.16 | 133.13 | 1.81 | 0.80 | 0.80 |
| 38.14 | 181.84 | 116.07 | 1.17 | 135.64 | 1.81 | 0.81 | 0.81 |
| 38.22 | 185.72 | 118.33 | 1.17 | 138.68 | 1.82 | 0.81 | 0.81 |
| 38.31 | 191.72 | 121.94 | 1.17 | 143.23 | 1.82 | 0.82 | 0.82 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 38.41 | 201.37 | 128.37 | 1.16 | 148.66 | 1.80 | 0.83 | 0.83 |
| 38.52 | 212.64 | 135.94 | 1.14 | 154.32 | 1.79 | 0.83 | 0.83 |
| 38.64 | 221.04 | 141.59 | 1.11 | 157.41 | 1.77 | 0.84 | 0.84 |
| 38.74 | 217.87 | 138.67 | 1.14 | 158.10 | 1.79 | 0.84 | 0.84 |
| 38.80 | 214.19 | 135.62 | 1.16 | 157.57 | 1.81 | 0.84 | 0.84 |
| 38.89 | 210.42 | 132.43 | 1.18 | 156.57 | 1.83 | 0.84 | 0.84 |
| 38.94 | 213.65 | 134.37 | 1.18 | 158.84 | 1.83 | 0.84 | 0.84 |
| 39.03 | 213.59 | 133.74 | 1.19 | 159.69 | 1.84 | 0.84 | 0.84 |
| 39.13 | 213.25 | 132.81 | 1.21 | 160.46 | 1.86 | 0.84 | 0.84 |
| 39.23 | 211.36 | 130.76 | 1.22 | 160.12 | 1.88 | 0.84 | 0.84 |
| 39.35 | 207.85 | 127.69 | 1.24 | 158.27 | 1.90 | 0.84 | 0.84 |
| 39.42 | 201.04 | 122.59 | 1.26 | 154.08 | 1.93 | 0.83 | 0.83 |
| 39.51 | 192.09 | 116.15 | 1.28 | 148.22 | 1.96 | 0.82 | 0.82 |
| 39.60 | 181.50 | 108.71 | 1.30 | 141.37 | 1.99 | 0.82 | 0.82 |
| 39.70 | 172.83 | 102.65 | 1.32 | 135.85 | 2.02 | 0.81 | 0.81 |
| 39.78 | 164.63 | 97.07 | 1.35 | 130.75 | 2.04 | 0.80 | 0.80 |
| 39.90 | 157.35 | 92.05 | 1.37 | 126.28 | 2.06 | 0.79 | 0.79 |
| 39.99 | 149.05 | 86.44 | 1.41 | 121.65 | 2.09 | 0.79 | 0.79 |
| 40.09 | 141.42 | 81.31 | 1.45 | 117.75 | 2.12 | 0.78 | 0.78 |
| 40.18 | 133.79 | 76.23 | 1.50 | 114.33 | 2.15 | 0.77 | 0.77 |
| 40.23 | 126.04 | 71.16 | 1.56 | 111.30 | 2.18 | 0.77 | 0.77 |
| 40.33 | 118.01 | 65.88 | 1.65 | 108.90 | 2.22 | 0.76 | 0.76 |
| 40.43 | 110.12 | 60.74 | 1.76 | 107.17 | 2.25 | 0.76 | 0.76 |
| 40.52 | 101.85 | 55.31 | 1.95 | 107.68 | 2.31 | 0.76 | 0.76 |
| 40.61 | 92.44 | 49.44 | 2.15 | 106.53 | 2.36 | 0.76 | 0.76 |
| 40.69 | 80.59 | 42.14 | 2.54 | 106.96 | 2.43 | 0.76 | 0.76 |
| 40.80 | 68.65 | 35.01 | 3.03 | 106.21 | 2.51 | 0.76 | 0.76 |
| 40.87 | 59.91 | 29.84 | 3.59 | 107.20 | 2.58 | 0.76 | 0.76 |
| 40.95 | 53.47 | 26.09 | 4.12 | 107.50 | 2.64 | 0.76 | 0.76 |
| 40.97 | 51.37 | 24.94 | 4.24 | 105.79 | 2.65 | 0.76 | 0.76 |
| 41.01 | 54.31 | 26.70 | 3.81 | 101.77 | 2.61 | 0.75 | 0.75 |
| 41.07 | 61.80 | 31.20 | 3.04 | 94.92 | 2.51 | 0.74 | 0.74 |
| 41.15 | 67.40 | 34.61 | 2.61 | 90.47 | 2.44 | 0.73 | 0.73 |
| 41.26 | 67.13 | 34.39 | 2.61 | 89.74 | 2.44 | 0.73 | 0.73 |
| 41.35 | 63.05 | 31.86 | 2.87 | 91.40 | 2.48 | 0.73 | 0.73 |
| 41.47 | 60.28 | 30.09 | 3.10 | 93.27 | 2.52 | 0.74 | 0.74 |
| 41.59 | 59.67 | 29.62 | 3.18 | 94.19 | 2.53 | 0.74 | 0.74 |
| 41.69 | 60.42 | 29.94 | 3.18 | 95.29 | 2.53 | 0.74 | 0.74 |
| 41.78 | 59.17 | 29.08 | 3.36 | 97.63 | 2.55 | 0.74 | 0.74 |
| 41.88 | 54.75 | 26.41 | 3.82 | 100.94 | 2.61 | 0.75 | 0.75 |
| 41.98 | 49.45 | 23.32 | 4.43 | 103.21 | 2.67 | 0.75 | 0.75 |
| 42.08 | 45.13 | 20.88 | 4.96 | 103.54 | 2.72 | 0.75 | 0.75 |
| 42.16 | 44.32 | 20.43 | 4.99 | 102.01 | 2.73 | 0.75 | 0.75 |
| 42.24 | 47.12 | 21.98 | 4.53 | 99.69 | 2.68 | 0.75 | 0.75 |
| 42.31 | 52.25 | 24.86 | 3.91 | 97.23 | 2.62 | 0.74 | 0.74 |
| 42.45 | 56.94 | 27.44 | 3.48 | 95.61 | 2.57 | 0.74 | 0.74 |
| 42.55 | 59.37 | 28.78 | 3.30 | 94.91 | 2.54 | 0.74 | 0.74 |
| 42.60 | 59.78 | 28.96 | 3.29 | 95.14 | 2.54 | 0.74 | 0.74 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 42.70 | 59.34 | 28.59 | 3.38 | 96.60 | 2.55 | 0.74 | 0.74 |
| 42.81 | 57.38 | 27.33 | 3.64 | 99.43 | 2.59 | 0.75 | 0.75 |
| 42.89 | 53.57 | 25.06 | 4.12 | 103.15 | 2.64 | 0.75 | 0.75 |
| 42.98 | 48.27 | 22.02 | 4.84 | 106.61 | 2.71 | 0.76 | 0.76 |
| 43.08 | 43.14 | 19.16 | 5.69 | 108.99 | 2.79 | 0.76 | 0.76 |
| 43.17 | 40.44 | 17.68 | 6.18 | 109.35 | 2.83 | 0.76 | 0.76 |
| 43.27 | 41.05 | 18.01 | 5.94 | 107.03 | 2.81 | 0.76 | 0.76 |
| 43.37 | 43.81 | 19.71 | 4.84 | 95.48 | 2.71 | 0.74 | 0.74 |
| 43.50 | 46.82 | 21.62 | 3.86 | 83.44 | 2.61 | 0.71 | 0.71 |
| 43.61 | 48.54 | 22.85 | 3.24 | 73.95 | 2.54 | 0.35 | 0.69 |
| 43.74 | 49.31 | 23.16 | 3.25 | 75.29 | 2.54 | 0.39 | 0.70 |
| 43.79 | 49.31 | 22.99 | 3.44 | 79.06 | 2.56 | 0.54 | 0.71 |
| 43.86 | 48.47 | 22.31 | 3.79 | 84.59 | 2.60 | 0.72 | 0.72 |
| 43.94 | 47.05 | 21.30 | 4.28 | 91.16 | 2.66 | 0.73 | 0.73 |
| 44.00 | 44.89 | 19.92 | 4.92 | 98.08 | 2.72 | 0.74 | 0.74 |
| 44.08 | 42.33 | 18.39 | 5.62 | 103.37 | 2.78 | 0.75 | 0.75 |
| 44.17 | 38.85 | 16.48 | 6.45 | 106.26 | 2.85 | 0.76 | 0.76 |
| 44.27 | 35.44 | 14.71 | 7.14 | 105.00 | 2.90 | 0.76 | 0.76 |
| 44.42 | 34.16 | 14.09 | 7.15 | 100.72 | 2.90 | 0.75 | 0.75 |
| 44.52 | 37.10 | 15.69 | 6.06 | 95.03 | 2.82 | 0.74 | 0.74 |
| 44.61 | 44.15 | 19.52 | 4.49 | 87.72 | 2.68 | 0.72 | 0.72 |
| 44.71 | 51.91 | 23.77 | 3.51 | 83.46 | 2.57 | 0.71 | 0.71 |
| 44.85 | 56.66 | 26.27 | 3.19 | 83.87 | 2.53 | 0.72 | 0.72 |
| 44.95 | 57.30 | 26.40 | 3.34 | 88.11 | 2.55 | 0.72 | 0.72 |
| 45.09 | 54.98 | 24.92 | 3.69 | 92.06 | 2.59 | 0.73 | 0.73 |
| 45.19 | 50.09 | 22.17 | 4.29 | 95.00 | 2.66 | 0.74 | 0.74 |
| 45.33 | 43.44 | 18.53 | 5.31 | 98.48 | 2.76 | 0.75 | 0.75 |
| 45.42 | 37.17 | 15.25 | 6.56 | 100.02 | 2.85 | 0.75 | 0.75 |
| 45.57 | 34.20 | 13.74 | 7.18 | 98.64 | 2.90 | 0.75 | 0.75 |
| 45.68 | 32.58 | 12.98 | 7.29 | 94.66 | 2.91 | 0.74 | 0.74 |
| 45.81 | 30.45 | 12.02 | 7.30 | 87.72 | 2.91 | 0.72 | 0.72 |
| 45.92 | 26.54 | 9.26 | 8.96 | 82.93 | 3.01 | 0.26 | 0.66 |
| 46.05 | 22.29 | 7.59 | 10.87 | 82.51 | 3.11 | 0.33 | 0.54 |
| 46.16 | 19.32 | 6.43 | 13.40 | 86.12 | 3.23 | 0.32 | 0.46 |
| 46.17 | 17.73 | 5.82 | 14.71 | 85.57 | 3.28 | 0.32 | 0.42 |
| 46.23 | 17.46 | 5.70 | 14.75 | 84.09 | 3.28 | 0.30 | 0.41 |
| 46.29 | 16.85 | 5.46 | 15.02 | 82.02 | 3.29 | 0.28 | 0.39 |
| 46.34 | 16.04 | 5.15 | 15.32 | 78.81 | 3.31 | 0.26 | 0.37 |
| 46.42 | 15.30 | 4.85 | 15.44 | 74.90 | 3.31 | 0.22 | 0.35 |
| 46.48 | 14.90 | 4.69 | 15.10 | 70.80 | 3.30 | 0.19 | 0.34 |
| 46.52 | 14.69 | 4.61 | 14.73 | 67.86 | 3.28 | 0.17 | 0.33 |
| 46.60 | 14.56 | 4.55 | 14.47 | 65.79 | 3.27 | 0.16 | 0.32 |
| 46.67 | 14.49 | 4.51 | 14.23 | 64.21 | 3.26 | 0.15 | 0.32 |
| 46.74 | 14.45 | 4.49 | 14.03 | 63.02 | 3.25 | 0.14 | 0.32 |
| 46.82 | 14.42 | 4.47 | 13.84 | 61.88 | 3.25 | 0.14 | 0.32 |
| 46.88 | 14.19 | 4.37 | 13.96 | 61.07 | 3.25 | 0.13 | 0.31 |
| 46.96 | 14.10 | 4.33 | 13.99 | 60.61 | 3.25 | 0.13 | 0.31 |
| 47.06 | 13.97 | 4.27 | 14.16 | 60.52 | 3.26 | 0.13 | 0.31 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 47.15 | 14.11 | 4.31 | 14.15 | 61.03 | 3.26 | 0.13 | 0.31 |
| 47.24 | 14.43 | 4.42 | 14.72 | 65.10 | 3.28 | 0.14 | 0.32 |
| 47.35 | 16.18 | 5.07 | 14.87 | 75.39 | 3.29 | 0.20 | 0.36 |
| 47.49 | 19.69 | 6.36 | 12.67 | 80.67 | 3.20 | 0.35 | 0.45 |
| 47.58 | 24.11 | 8.00 | 10.33 | 82.65 | 3.09 | 0.29 | 0.57 |
| 47.73 | 26.03 | 8.69 | 9.32 | 80.95 | 3.03 | 0.30 | 0.62 |
| 47.83 | 27.06 | 9.05 | 9.05 | 81.84 | 3.02 | 0.33 | 0.65 |
| 47.87 | 26.18 | 8.71 | 9.55 | 83.19 | 3.04 | 0.32 | 0.62 |
| 47.89 | 26.93 | 8.98 | 9.14 | 82.12 | 3.02 | 0.32 | 0.64 |
| 47.94 | 26.64 | 8.87 | 9.20 | 81.59 | 3.02 | 0.31 | 0.63 |
| 48.02 | 26.81 | 8.91 | 9.08 | 80.90 | 3.02 | 0.31 | 0.64 |
| 48.07 | 26.40 | 8.75 | 9.26 | 81.07 | 3.03 | 0.31 | 0.63 |
| 48.12 | 25.97 | 8.58 | 9.61 | 82.45 | 3.05 | 0.31 | 0.61 |
| 48.18 | 25.43 | 8.37 | 10.05 | 84.09 | 3.07 | 0.34 | 0.60 |
| 48.26 | 25.01 | 8.20 | 10.42 | 85.42 | 3.09 | 0.34 | 0.59 |
| 48.31 | 24.60 | 8.04 | 10.54 | 84.77 | 3.10 | 0.34 | 0.57 |
| 48.38 | 24.56 | 8.01 | 10.30 | 82.58 | 3.08 | 0.31 | 0.57 |
| 48.46 | 24.71 | 8.05 | 9.85 | 79.31 | 3.06 | 0.29 | 0.58 |
| 48.52 | 24.41 | 7.93 | 9.58 | 75.99 | 3.05 | 0.26 | 0.57 |
| 48.60 | 23.16 | 7.46 | 9.70 | 72.40 | 3.05 | 0.23 | 0.53 |
| 48.68 | 20.77 | 6.57 | 10.59 | 69.64 | 3.10 | 0.19 | 0.47 |
| 48.74 | 18.20 | 5.63 | 12.04 | 67.76 | 3.17 | 0.18 | 0.40 |
| 48.82 | 15.94 | 4.80 | 14.01 | 67.24 | 3.25 | 0.17 | 0.34 |
| 48.89 | 14.56 | 4.29 | 15.49 | 66.41 | 3.31 | 0.17 | 0.31 |
| 48.99 | 13.82 | 4.01 | 16.21 | 64.98 | 3.34 | 0.16 | 0.29 |
| 49.05 | 13.65 | 3.94 | 15.85 | 62.48 | 3.32 | 0.14 | 0.28 |
| 49.12 | 13.51 | 3.89 | 15.38 | 59.74 | 3.31 | 0.12 | 0.28 |
| 49.18 | 13.55 | 3.89 | 14.70 | 57.20 | 3.28 | 0.11 | 0.28 |
| 49.27 | 13.75 | 3.96 | 14.08 | 55.71 | 3.26 | 0.10 | 0.28 |
| 49.32 | 13.92 | 4.01 | 13.56 | 54.42 | 3.24 | 0.10 | 0.29 |
| 49.42 | 13.55 | 3.87 | 13.92 | 53.88 | 3.25 | 0.09 | 0.28 |
| 49.48 | 13.11 | 3.71 | 14.46 | 53.63 | 3.27 | 0.09 | 0.26 |
| 49.56 | 13.01 | 3.66 | 14.76 | 54.09 | 3.28 | 0.09 | 0.26 |
| 49.66 | 13.28 | 3.75 | 14.73 | 55.25 | 3.28 | 0.10 | 0.27 |
| 49.76 | 13.68 | 3.89 | 14.49 | 56.33 | 3.27 | 0.11 | 0.28 |
| 49.85 | 14.06 | 4.01 | 13.46 | 54.00 | 3.23 | 0.11 | 0.29 |
| 49.99 | 14.87 | 4.29 | 11.96 | 51.28 | 3.17 | 0.06 | 0.31 |
| 50.09 | 14.43 | 4.12 | 11.90 | 49.07 | 3.16 | 0.08 | 0.29 |
| 50.21 | 13.82 | 3.89 | 12.94 | 50.39 | 3.21 | 0.08 | 0.28 |
| 50.24 | 13.21 | 3.68 | 13.72 | 50.47 | 3.24 | 0.08 | 0.26 |
| 50.29 | 13.59 | 3.81 | 13.05 | 49.66 | 3.21 | 0.08 | 0.27 |
| 50.38 | 13.69 | 3.83 | 12.73 | 48.82 | 3.20 | 0.07 | 0.27 |
| 50.47 | 13.39 | 3.72 | 13.00 | 48.36 | 3.21 | 0.07 | 0.27 |
| 50.52 | 12.98 | 3.57 | 13.61 | 48.61 | 3.24 | 0.07 | 0.26 |
| 50.62 | 13.01 | 3.58 | 13.73 | 49.09 | 3.24 | 0.07 | 0.26 |
| 50.66 | 13.15 | 3.62 | 13.70 | 49.58 | 3.24 | 0.08 | 0.26 |
| 50.76 | 13.28 | 3.66 | 13.70 | 50.11 | 3.24 | 0.08 | 0.26 |
| 50.83 | 14.13 | 3.95 | 12.99 | 51.29 | 3.21 | 0.08 | 0.28 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 50.91 | 14.30 | 4.00 | 13.34 | 53.36 | 3.23 | 0.09 | 0.29 |
| 51.00 | 15.61 | 4.45 | 12.42 | 55.29 | 3.19 | 0.11 | 0.32 |
| 51.06 | 17.36 | 5.06 | 11.27 | 56.99 | 3.13 | 0.11 | 0.36 |
| 51.15 | 17.67 | 5.15 | 11.86 | 61.08 | 3.16 | 0.13 | 0.37 |
| 51.24 | 16.35 | 4.68 | 14.43 | 67.57 | 3.27 | 0.18 | 0.33 |
| 51.31 | 12.88 | 3.47 | 21.69 | 75.27 | 3.51 | 0.23 | 0.25 |
| 51.39 | 18.55 | 5.43 | 14.77 | 80.15 | 3.28 | 0.29 | 0.39 |
| 51.48 | 32.14 | 11.43 | 7.23 | 82.64 | 2.90 | 0.71 | 0.71 |
| 51.58 | 35.38 | 12.78 | 6.83 | 87.30 | 2.87 | 0.72 | 0.72 |
| 51.68 | 27.82 | 8.59 | 10.70 | 91.85 | 3.10 | 0.45 | 0.61 |
| 51.77 | 17.84 | 5.13 | 19.49 | 100.06 | 3.45 | 0.43 | 0.37 |
| 51.90 | 36.80 | 11.62 | 9.16 | 106.47 | 3.02 | 0.53 | 0.83 |
| 52.01 | 74.42 | 30.49 | 3.61 | 110.20 | 2.58 | 0.77 | 0.77 |
| 52.11 | 128.50 | 57.50 | 2.11 | 121.05 | 2.34 | 0.78 | 0.78 |
| 52.26 | 161.87 | 74.64 | 1.77 | 131.90 | 2.25 | 0.80 | 0.80 |
| 52.30 | 209.17 | 100.78 | 1.45 | 146.55 | 2.12 | 0.82 | 0.82 |
| 52.33 | 248.44 | 124.60 | 1.31 | 162.63 | 2.00 | 0.84 | 0.84 |
| 52.35 | 302.93 | 158.50 | 1.21 | 192.22 | 1.87 | 0.88 | 0.88 |
| 52.40 | 347.53 | 187.07 | 1.12 | 209.95 | 1.78 | 0.90 | 0.90 |
| 52.45 | 381.51 | 208.63 | 1.04 | 216.58 | 1.72 | 0.90 | 0.90 |
| 52.50 | 415.58 | 229.89 | 1.00 | 229.89 | 1.69 | 0.92 | 0.92 |
| 52.55 | 447.33 | 248.98 | 1.00 | 248.98 | 1.67 | 0.93 | 0.93 |
| 52.60 | 486.53 | 273.15 | 1.00 | 273.15 | 1.63 | 0.96 | 0.96 |
| 52.65 | 516.02 | 289.64 | 1.00 | 289.64 | 1.60 | 0.97 | 0.97 |
| 52.71 | 531.14 | 297.95 | 1.00 | 297.95 | 1.57 | 0.98 | 0.98 |
| 52.77 | 541.83 | 303.79 | 1.00 | 303.79 | 1.53 | 0.98 | 0.98 |
| 52.82 | 558.50 | 312.99 | 1.00 | 312.99 | 1.51 | 0.99 | 0.99 |
| 52.88 | 578.13 | 323.84 | 1.00 | 323.84 | 1.48 | 1.00 | 1.00 |
| 52.93 | 592.07 | 331.46 | 1.00 | 331.46 | 1.46 | 1.00 | 1.00 |
| 52.98 | 605.70 | 338.95 | 1.00 | 338.95 | 1.46 | 1.01 | 1.01 |
| 53.03 | 608.64 | 340.39 | 1.00 | 340.39 | 1.46 | 1.01 | 1.01 |
| 53.08 | 608.27 | 340.01 | 1.00 | 340.01 | 1.46 | 1.01 | 1.01 |
| 53.12 | 601.01 | 335.78 | 1.00 | 335.78 | 1.47 | 1.00 | 1.00 |
| 53.17 | 598.22 | 333.99 | 1.00 | 333.99 | 1.46 | 1.00 | 1.00 |
| 53.23 | 600.71 | 335.19 | 1.00 | 335.19 | 1.45 | 1.00 | 1.00 |
| 53.28 | 596.23 | 332.45 | 1.00 | 332.45 | 1.47 | 1.00 | 1.00 |
| 53.37 | 588.50 | 327.80 | 1.00 | 327.80 | 1.48 | 1.00 | 1.00 |
| 53.42 | 584.11 | 325.17 | 1.00 | 325.17 | 1.50 | 1.00 | 1.00 |
| 53.46 | 586.81 | 326.50 | 1.00 | 326.50 | 1.52 | 1.00 | 1.00 |
| 53.53 | 599.03 | 333.09 | 1.00 | 333.09 | 1.53 | 1.00 | 1.00 |
| 53.61 | 597.34 | 331.84 | 1.00 | 331.84 | 1.56 | 1.00 | 1.00 |
| 53.62 | 582.26 | 323.39 | 1.00 | 323.39 | 1.60 | 1.00 | 1.00 |
| 53.65 | 574.05 | 318.67 | 1.00 | 318.67 | 1.60 | 0.99 | 0.99 |
| 53.67 | 571.35 | 317.12 | 1.00 | 317.12 | 1.61 | 0.99 | 0.99 |
| 53.70 | 583.83 | 323.95 | 1.00 | 323.95 | 1.59 | 1.00 | 1.00 |
| 53.74 | 582.83 | 323.26 | 1.00 | 323.26 | 1.60 | 1.00 | 1.00 |
| 53.76 | 583.81 | 323.74 | 1.00 | 323.74 | 1.60 | 1.00 | 1.00 |
| 53.80 | 581.08 | 322.06 | 1.00 | 322.06 | 1.59 | 0.99 | 0.99 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 53.84 | 577.81 | 320.07 | 1.00 | 320.07 | 1.59 | 0.99 | 0.99 |
| 53.90 | 578.23 | 320.12 | 1.00 | 320.12 | 1.58 | 0.99 | 0.99 |
| 53.91 | 570.20 | 315.61 | 1.00 | 315.61 | 1.59 | 0.99 | 0.99 |
| 53.95 | 573.64 | 317.38 | 1.00 | 317.38 | 1.58 | 0.99 | 0.99 |
| 53.96 | 579.94 | 320.83 | 1.00 | 320.83 | 1.58 | 0.99 | 0.99 |
| 53.98 | 601.06 | 332.48 | 1.00 | 332.48 | 1.56 | 1.00 | 1.00 |
| 53.99 | 602.95 | 333.50 | 1.00 | 333.50 | 1.56 | 1.00 | 1.00 |
| 54.01 | 592.15 | 327.46 | 1.00 | 327.46 | 1.57 | 1.00 | 1.00 |
| 54.02 | 579.33 | 320.31 | 1.00 | 320.31 | 1.58 | 0.99 | 0.99 |
| 54.03 | 553.15 | 305.74 | 1.00 | 305.74 | 1.61 | 0.98 | 0.98 |
| 54.04 | 504.84 | 276.21 | 1.00 | 276.21 | 1.67 | 0.96 | 0.96 |
| 54.05 | 452.17 | 241.19 | 1.08 | 260.14 | 1.75 | 0.94 | 0.94 |
| 54.09 | 422.63 | 221.81 | 1.15 | 254.46 | 1.79 | 0.94 | 0.94 |
| 54.10 | 421.59 | 220.94 | 1.15 | 254.57 | 1.80 | 0.94 | 0.94 |
| 54.13 | 421.89 | 221.06 | 1.15 | 254.64 | 1.80 | 0.94 | 0.94 |
| 54.14 | 420.96 | 220.34 | 1.16 | 254.59 | 1.80 | 0.94 | 0.94 |
| 54.19 | 422.82 | 221.19 | 1.16 | 255.77 | 1.80 | 0.94 | 0.94 |
| 54.19 | 428.79 | 224.52 | 1.15 | 258.95 | 1.80 | 0.94 | 0.94 |
| 54.24 | 439.22 | 231.86 | 1.12 | 259.93 | 1.77 | 0.94 | 0.94 |
| 54.29 | 456.97 | 245.94 | 1.02 | 249.88 | 1.71 | 0.94 | 0.94 |
| 54.33 | 474.10 | 261.31 | 1.00 | 261.31 | 1.64 | 0.95 | 0.95 |
| 54.38 | 494.95 | 272.80 | 1.00 | 272.80 | 1.57 | 0.96 | 0.96 |
| 54.39 | 512.70 | 282.62 | 1.00 | 282.62 | 1.53 | 0.96 | 0.96 |
| 54.43 | 529.13 | 291.66 | 1.00 | 291.66 | 1.52 | 0.97 | 0.97 |
| 54.48 | 543.10 | 299.32 | 1.00 | 299.32 | 1.44 | 0.98 | 0.98 |
| 54.52 | 556.66 | 306.76 | 1.00 | 306.76 | 1.36 | 0.98 | 0.98 |
| 54.58 | 573.87 | 316.20 | 1.00 | 316.20 | 1.26 | 0.99 | 0.99 |
| 54.62 | 587.13 | 323.46 | 1.00 | 323.46 | 1.28 | 1.00 | 1.00 |
| 54.65 | 604.44 | 333.00 | 1.00 | 333.00 | 1.29 | 1.00 | 1.00 |
| 54.67 | 623.33 | 343.41 | 1.00 | 343.41 | 1.30 | 1.01 | 1.01 |
| 54.71 | 658.15 | 362.60 | 1.00 | 362.60 | 1.28 | 1.02 | 1.02 |
| 54.77 | 679.34 | 374.21 | 1.00 | 374.21 | 1.20 | 1.03 | 1.03 |
| 54.81 | 702.99 | 387.19 | 1.00 | 387.19 | 1.11 | 1.04 | 1.04 |
| 54.85 | 704.07 | 387.70 | 1.00 | 387.70 | 1.04 | 1.04 | 1.04 |
| 54.86 | 709.13 | 390.48 | 1.00 | 390.48 | 1.06 | 1.04 | 1.04 |
| 54.87 | 703.33 | 387.26 | 1.00 | 387.26 | 1.09 | 1.04 | 1.04 |
| 54.91 | 703.66 | 387.35 | 1.00 | 387.35 | 1.13 | 1.04 | 1.04 |
| 54.96 | 707.14 | 389.17 | 1.00 | 389.17 | 1.16 | 1.04 | 1.04 |
| 55.00 | 703.19 | 386.89 | 1.00 | 386.89 | 1.18 | 1.04 | 1.04 |
| 55.01 | 695.84 | 382.82 | 1.00 | 382.82 | 1.19 | 1.04 | 1.04 |
| 55.05 | 679.11 | 373.47 | 1.00 | 373.47 | 1.21 | 1.03 | 1.03 |
| 55.10 | 651.07 | 357.87 | 1.00 | 357.87 | 1.24 | 1.02 | 1.02 |
| 55.12 | 603.77 | 331.72 | 1.00 | 331.72 | 1.29 | 1.00 | 1.00 |
| 55.13 | 570.97 | 313.58 | 1.00 | 313.58 | 1.33 | 0.99 | 0.99 |
| 55.14 | 563.11 | 309.22 | 1.00 | 309.22 | 1.33 | 0.98 | 0.98 |
| 55.19 | 576.91 | 316.75 | 1.00 | 316.75 | 1.31 | 0.99 | 0.99 |
| 55.20 | 576.27 | 316.38 | 1.00 | 316.38 | 1.31 | 0.99 | 0.99 |
| 55.25 | 562.13 | 308.48 | 1.00 | 308.48 | 1.33 | 0.98 | 0.98 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 55.29 | 546.07 | 299.55 | 1.00 | 299.55 | 1.37 | 0.98 | 0.98 |
| 55.33 | 519.69 | 284.92 | 1.00 | 284.92 | 1.42 | 0.97 | 0.97 |
| 55.38 | 481.16 | 263.59 | 1.00 | 263.59 | 1.52 | 0.95 | 0.95 |
| 55.48 | 439.32 | 240.38 | 1.00 | 240.38 | 1.63 | 0.93 | 0.93 |
| 55.57 | 411.39 | 218.55 | 1.04 | 227.87 | 1.73 | 0.92 | 0.92 |
| 55.63 | 398.09 | 206.42 | 1.15 | 237.94 | 1.80 | 0.92 | 0.92 |
| 55.72 | 402.04 | 206.08 | 1.19 | 244.53 | 1.83 | 0.93 | 0.93 |
| 55.80 | 431.09 | 221.88 | 1.17 | 260.68 | 1.82 | 0.95 | 0.95 |
| 55.86 | 480.55 | 259.76 | 1.00 | 259.76 | 1.67 | 0.94 | 0.94 |
| 55.97 | 527.85 | 288.32 | 1.00 | 288.32 | 1.51 | 0.97 | 0.97 |
| 56.01 | 560.55 | 306.20 | 1.00 | 306.20 | 1.34 | 0.98 | 0.98 |
| 56.06 | 587.84 | 186.61 | 1.00 | 186.61 | 1.50 | 0.87 | 0.87 |
| 56.11 | 613.11 | 194.57 | 1.00 | 194.57 | 1.50 | 0.88 | 0.88 |
| 56.15 | 640.71 | 203.27 | 1.00 | 203.27 | 1.51 | 0.89 | 0.89 |
| 56.20 | 660.92 | 209.60 | 1.00 | 209.60 | 1.52 | 0.90 | 0.90 |
| 56.27 | 663.16 | 210.15 | 1.00 | 210.15 | 1.53 | 0.90 | 0.90 |
| 56.27 | 664.17 | 210.45 | 1.00 | 210.45 | 1.56 | 0.90 | 0.90 |
| 56.30 | 642.20 | 203.39 | 1.00 | 203.39 | 1.61 | 0.89 | 0.89 |
| 56.33 | 649.54 | 205.64 | 1.00 | 205.64 | 1.64 | 0.89 | 0.89 |
| 56.35 | 647.65 | 205.00 | 1.00 | 205.00 | 1.66 | 0.89 | 0.89 |
| 56.40 | 667.86 | 211.31 | 1.00 | 211.31 | 1.64 | 0.90 | 0.90 |
| 56.41 | 669.34 | 211.76 | 1.00 | 211.76 | 1.64 | 0.90 | 0.90 |
| 56.44 | 681.53 | 215.53 | 1.00 | 215.53 | 1.63 | 0.90 | 0.90 |
| 56.49 | 695.19 | 219.75 | 1.00 | 219.75 | 1.62 | 0.91 | 0.91 |
| 56.54 | 717.49 | 226.71 | 1.00 | 226.71 | 1.61 | 0.91 | 0.91 |
| 56.58 | 737.23 | 232.85 | 1.00 | 232.85 | 1.61 | 0.92 | 0.92 |
| 56.59 | 750.18 | 236.93 | 1.00 | 236.93 | 1.61 | 0.92 | 0.92 |
| 56.64 | 757.34 | 239.07 | 1.00 | 239.07 | 1.60 | 0.93 | 0.93 |
| 56.69 | 764.80 | 241.29 | 1.00 | 241.29 | 1.60 | 0.93 | 0.93 |
| 56.73 | 778.16 | 245.40 | 1.00 | 245.40 | 1.59 | 0.93 | 0.93 |
| 56.78 | 778.56 | 245.38 | 1.00 | 245.38 | 1.58 | 0.93 | 0.93 |
| 56.83 | 759.53 | 239.22 | 1.00 | 239.22 | 1.58 | 0.93 | 0.93 |
| 56.88 | 731.80 | 230.32 | 1.00 | 230.32 | 1.58 | 0.92 | 0.92 |
| 56.89 | 708.89 | 223.03 | 1.00 | 223.03 | 1.60 | 0.91 | 0.91 |
| 56.95 | 692.53 | 217.71 | 1.00 | 217.71 | 1.59 | 0.91 | 0.91 |
| 57.01 | 668.00 | 209.81 | 1.00 | 209.81 | 1.59 | 0.90 | 0.90 |
| 57.07 | 645.94 | 202.70 | 1.00 | 202.70 | 1.58 | 0.89 | 0.89 |
| 57.11 | 619.45 | 194.25 | 1.00 | 194.25 | 1.52 | 0.88 | 0.88 |
| 57.17 | 598.63 | 187.56 | 1.00 | 187.56 | 1.46 | 0.87 | 0.87 |
| 57.26 | 574.07 | 179.66 | 1.00 | 179.66 | 1.37 | 0.86 | 0.86 |
| 57.31 | 547.05 | 171.06 | 1.00 | 171.06 | 1.43 | 0.85 | 0.85 |
| 57.37 | 520.16 | 162.50 | 1.00 | 162.50 | 1.45 | 0.84 | 0.84 |
| 57.45 | 490.27 | 152.96 | 1.00 | 152.96 | 1.51 | 0.83 | 0.83 |
| 57.51 | 451.30 | 140.63 | 1.00 | 140.63 | 1.55 | 0.81 | 0.81 |
| 57.53 | 421.54 | 131.27 | 1.00 | 131.27 | 1.59 | 0.80 | 0.80 |
| 57.59 | 401.40 | 124.87 | 1.00 | 124.87 | 1.62 | 0.79 | 0.79 |
| 57.63 | 398.96 | 124.05 | 1.00 | 124.05 | 1.62 | 0.79 | 0.79 |
| 57.68 | 391.51 | 121.66 | 1.00 | 121.66 | 1.63 | 0.79 | 0.79 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 57.73 | 386.48 | 120.01 | 1.00 | 120.01 | 1.64 | 0.78 | 0.78 |
| 57.78 | 379.02 | 117.62 | 1.00 | 117.62 | 1.65 | 0.78 | 0.78 |
| 57.86 | 359.96 | 111.55 | 1.00 | 111.55 | 1.66 | 0.77 | 0.77 |
| 57.92 | 326.32 | 100.97 | 1.00 | 100.97 | 1.71 | 0.75 | 0.75 |
| 57.98 | 290.83 | 89.82 | 1.00 | 89.82 | 1.76 | 0.73 | 0.73 |
| 58.06 | 263.33 | 81.16 | 1.18 | 95.51 | 1.82 | 0.74 | 0.74 |
| 58.12 | 242.92 | 74.75 | 1.24 | 92.39 | 1.90 | 0.73 | 0.73 |
| 58.21 | 222.41 | 68.28 | 1.30 | 88.73 | 1.99 | 0.73 | 0.73 |
| 58.26 | 204.43 | 62.64 | 1.37 | 85.71 | 2.06 | 0.72 | 0.72 |
| 58.35 | 180.37 | 55.10 | 1.48 | 81.38 | 2.14 | 0.65 | 0.71 |
| 58.41 | 154.93 | 47.15 | 1.59 | 74.91 | 2.19 | 0.38 | 0.70 |
| 58.50 | 122.84 | 37.13 | 1.90 | 70.73 | 2.29 | 0.27 | 0.69 |
| 58.56 | 98.18 | 29.45 | 2.28 | 67.27 | 2.38 | 0.20 | 0.68 |
| 58.64 | 77.90 | 23.14 | 3.23 | 74.61 | 2.53 | 0.37 | 0.69 |
| 58.73 | 63.67 | 18.70 | 4.34 | 81.15 | 2.66 | 0.64 | 0.71 |
| 58.80 | 51.12 | 14.80 | 5.89 | 87.16 | 2.80 | 0.72 | 0.72 |
| 58.84 | 42.24 | 12.04 | 7.59 | 91.44 | 2.93 | 0.73 | 0.73 |
| 58.85 | 43.79 | 12.52 | 7.27 | 91.06 | 2.90 | 0.73 | 0.73 |
| 58.93 | 50.50 | 14.59 | 6.00 | 87.49 | 2.81 | 0.72 | 0.72 |
| 58.98 | 58.12 | 16.94 | 4.87 | 82.49 | 2.72 | 0.71 | 0.71 |
| 59.02 | 61.77 | 18.06 | 4.38 | 79.02 | 2.67 | 0.54 | 0.70 |
| 59.12 | 63.39 | 18.54 | 4.19 | 77.74 | 2.65 | 0.48 | 0.70 |
| 59.17 | 65.41 | 19.15 | 4.09 | 78.34 | 2.64 | 0.51 | 0.70 |
| 59.27 | 67.33 | 19.73 | 4.06 | 80.06 | 2.63 | 0.59 | 0.71 |
| 59.31 | 67.64 | 19.81 | 4.15 | 82.31 | 2.64 | 0.71 | 0.71 |
| 59.41 | 64.84 | 18.93 | 4.46 | 84.40 | 2.68 | 0.72 | 0.72 |
| 59.46 | 57.99 | 16.81 | 5.11 | 85.91 | 2.74 | 0.72 | 0.72 |
| 59.55 | 48.77 | 13.96 | 6.20 | 86.53 | 2.83 | 0.72 | 0.72 |
| 59.65 | 39.66 | 11.14 | 7.37 | 82.12 | 2.91 | 0.70 | 0.71 |
| 59.70 | 34.25 | 9.47 | 8.28 | 78.48 | 2.97 | 0.51 | 0.70 |
| 59.80 | 32.07 | 8.80 | 8.61 | 75.77 | 2.99 | 0.41 | 0.70 |
| 59.89 | 32.04 | 8.78 | 9.03 | 79.29 | 3.01 | 0.30 | 0.63 |
| 59.94 | 31.04 | 8.47 | 9.76 | 82.68 | 3.06 | 0.33 | 0.60 |
| 60.01 | 30.35 | 8.25 | 10.33 | 85.21 | 3.09 | 0.36 | 0.59 |
| 60.02 | 32.64 | 8.95 | 9.57 | 85.70 | 3.04 | 0.36 | 0.64 |
| 60.08 | 35.54 | 9.83 | 8.61 | 84.70 | 2.99 | 0.72 | 0.72 |
| 60.12 | 36.56 | 10.14 | 8.23 | 83.40 | 2.97 | 0.71 | 0.71 |
| 60.17 | 32.87 | 9.01 | 9.03 | 81.32 | 3.01 | 0.34 | 0.64 |
| 60.27 | 28.56 | 7.68 | 10.03 | 76.99 | 3.07 | 0.27 | 0.55 |
| 60.31 | 24.81 | 6.53 | 11.00 | 71.83 | 3.12 | 0.21 | 0.47 |
| 60.37 | 22.21 | 5.73 | 11.72 | 67.16 | 3.15 | 0.19 | 0.41 |
| 60.46 | 20.93 | 5.33 | 12.03 | 64.16 | 3.17 | 0.15 | 0.38 |
| 60.51 | 20.76 | 5.28 | 11.57 | 61.05 | 3.15 | 0.14 | 0.38 |
| 60.61 | 21.43 | 5.48 | 10.86 | 59.48 | 3.11 | 0.13 | 0.39 |
| 60.65 | 21.84 | 5.60 | 10.44 | 58.49 | 3.09 | 0.13 | 0.40 |
| 60.75 | 22.18 | 5.70 | 10.27 | 58.52 | 3.08 | 0.13 | 0.41 |
| 60.81 | 22.25 | 5.72 | 10.24 | 58.52 | 3.08 | 0.13 | 0.41 |
| 60.89 | 22.21 | 5.70 | 10.20 | 58.14 | 3.08 | 0.13 | 0.41 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 60.94 | 22.45 | 5.77 | 10.12 | 58.37 | 3.07 | 0.12 | 0.41 |
| 61.03 | 22.62 | 5.81 | 10.19 | 59.27 | 3.08 | 0.13 | 0.42 |
| 61.09 | 22.65 | 5.82 | 10.23 | 59.56 | 3.08 | 0.14 | 0.42 |
| 61.19 | 22.38 | 5.74 | 10.30 | 59.09 | 3.08 | 0.13 | 0.41 |
| 61.24 | 22.96 | 5.91 | 9.90 | 58.48 | 3.06 | 0.12 | 0.42 |
| 61.33 | 24.51 | 6.37 | 9.35 | 59.55 | 3.03 | 0.14 | 0.46 |
| 61.38 | 24.20 | 6.28 | 10.50 | 65.92 | 3.09 | 0.15 | 0.45 |
| 61.47 | 23.16 | 5.95 | 12.35 | 73.50 | 3.18 | 0.24 | 0.43 |
| 61.53 | 21.88 | 5.56 | 14.59 | 81.14 | 3.28 | 0.29 | 0.40 |
| 61.62 | 27.61 | 7.29 | 11.24 | 81.97 | 3.13 | 0.33 | 0.52 |
| 61.70 | 44.48 | 12.39 | 6.68 | 82.73 | 2.86 | 0.71 | 0.71 |
| 61.77 | 66.81 | 19.14 | 4.44 | 84.93 | 2.67 | 0.72 | 0.72 |
| 61.86 | 81.96 | 23.70 | 3.78 | 89.66 | 2.60 | 0.73 | 0.73 |
| 61.95 | 81.02 | 23.39 | 4.06 | 94.89 | 2.63 | 0.74 | 0.74 |
| 61.97 | 72.62 | 20.85 | 4.65 | 96.91 | 2.69 | 0.74 | 0.74 |
| 62.01 | 62.36 | 17.75 | 5.62 | 99.66 | 2.78 | 0.75 | 0.75 |
| 62.10 | 52.17 | 14.66 | 6.77 | 99.23 | 2.87 | 0.75 | 0.75 |
| 62.24 | 55.41 | 15.61 | 5.76 | 89.92 | 2.79 | 0.73 | 0.73 |
| 62.34 | 87.70 | 25.31 | 2.83 | 71.54 | 2.48 | 0.29 | 0.69 |
| 62.49 | 127.58 | 37.26 | 1.74 | 64.77 | 2.25 | 0.17 | 0.67 |
| 62.54 | 164.52 | 48.34 | 1.44 | 69.68 | 2.11 | 0.25 | 0.68 |
| 62.66 | 181.39 | 53.35 | 1.37 | 73.33 | 2.07 | 0.34 | 0.69 |
| 62.74 | 199.68 | 58.78 | 1.33 | 77.94 | 2.02 | 0.49 | 0.70 |
| 62.87 | 211.65 | 62.29 | 1.30 | 80.99 | 1.99 | 0.63 | 0.71 |
| 62.92 | 217.18 | 63.92 | 1.29 | 82.65 | 1.98 | 0.71 | 0.71 |
| 63.03 | 219.18 | 64.44 | 1.29 | 83.41 | 1.98 | 0.71 | 0.71 |
| 63.15 | 218.06 | 64.03 | 1.30 | 83.38 | 1.99 | 0.71 | 0.71 |
| 63.26 | 213.11 | 62.49 | 1.32 | 82.35 | 2.01 | 0.71 | 0.71 |
| 63.37 | 206.70 | 60.51 | 1.34 | 80.92 | 2.03 | 0.63 | 0.71 |
| 63.45 | 200.15 | 58.51 | 1.34 | 78.49 | 2.04 | 0.51 | 0.70 |
| 63.54 | 197.59 | 57.70 | 1.32 | 76.31 | 2.02 | 0.43 | 0.70 |
| 63.61 | 190.30 | 55.49 | 1.33 | 73.61 | 2.02 | 0.34 | 0.69 |
| 63.69 | 172.04 | 50.02 | 1.39 | 69.47 | 2.08 | 0.24 | 0.68 |
| 63.79 | 141.71 | 40.98 | 1.65 | 67.77 | 2.22 | 0.21 | 0.68 |
| 63.89 | 106.15 | 30.39 | 2.20 | 66.74 | 2.36 | 0.19 | 0.67 |
| 63.98 | 75.22 | 21.20 | 3.37 | 71.48 | 2.55 | 0.29 | 0.69 |
| 64.07 | 53.15 | 14.65 | 4.91 | 71.91 | 2.72 | 0.30 | 0.69 |
| 64.15 | 39.12 | 10.48 | 7.30 | 76.48 | 2.91 | 0.44 | 0.70 |
| 64.23 | 29.98 | 7.77 | 10.00 | 77.68 | 3.07 | 0.27 | 0.56 |
| 64.26 | 25.15 | 6.34 | 12.34 | 78.26 | 3.18 | 0.27 | 0.45 |
| 64.29 | 23.57 | 5.87 | 13.31 | 78.14 | 3.22 | 0.26 | 0.42 |
| 64.33 | 23.37 | 5.81 | 12.89 | 74.86 | 3.21 | 0.26 | 0.41 |
| 64.43 | 22.99 | 5.69 | 12.43 | 70.78 | 3.19 | 0.19 | 0.41 |
| 64.47 | 22.29 | 5.48 | 12.05 | 66.07 | 3.17 | 0.17 | 0.39 |
| 64.53 | 21.82 | 5.34 | 12.01 | 64.15 | 3.17 | 0.16 | 0.38 |
| 64.62 | 20.60 | 4.98 | 12.74 | 63.40 | 3.20 | 0.15 | 0.36 |
| 64.72 | 19.12 | 4.53 | 13.95 | 63.23 | 3.25 | 0.15 | 0.32 |
| 64.78 | 18.00 | 4.20 | 15.17 | 63.74 | 3.30 | 0.15 | 0.30 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 64.86 | 18.21 | 4.26 | 15.26 | 65.01 | 3.30 | 0.16 | 0.30 |
| 64.96 | 18.78 | 4.42 | 15.44 | 68.31 | 3.31 | 0.18 | 0.32 |
| 65.06 | 19.22 | 4.55 | 15.74 | 71.61 | 3.32 | 0.21 | 0.32 |
| 65.11 | 19.22 | 4.55 | 16.41 | 74.58 | 3.34 | 0.23 | 0.32 |
| 65.21 | 18.85 | 4.43 | 17.13 | 75.90 | 3.37 | 0.24 | 0.32 |
| 65.31 | 18.45 | 4.31 | 17.70 | 76.26 | 3.39 | 0.24 | 0.31 |
| 65.40 | 18.28 | 4.25 | 17.10 | 72.77 | 3.37 | 0.23 | 0.30 |
| 65.50 | 18.58 | 4.34 | 15.67 | 67.97 | 3.32 | 0.16 | 0.31 |
| 65.58 | 19.02 | 4.46 | 14.15 | 63.13 | 3.26 | 0.14 | 0.32 |
| 65.68 | 19.05 | 4.47 | 13.69 | 61.17 | 3.24 | 0.14 | 0.32 |
| 65.78 | 17.67 | 4.06 | 14.89 | 60.45 | 3.29 | 0.13 | 0.29 |
| 65.84 | 16.40 | 3.69 | 16.19 | 59.69 | 3.34 | 0.13 | 0.26 |
| 65.86 | 15.56 | 3.44 | 17.33 | 59.62 | 3.38 | 0.12 | 0.25 |
| 65.87 | 16.51 | 3.72 | 15.97 | 59.36 | 3.33 | 0.12 | 0.27 |
| 65.98 | 17.26 | 3.93 | 15.03 | 59.09 | 3.29 | 0.12 | 0.28 |
| 66.10 | 17.84 | 4.09 | 14.69 | 60.13 | 3.28 | 0.12 | 0.29 |
| 66.21 | 18.21 | 4.20 | 14.85 | 62.32 | 3.29 | 0.14 | 0.30 |
| 66.34 | 18.48 | 4.27 | 14.76 | 63.01 | 3.28 | 0.16 | 0.31 |
| 66.48 | 19.00 | 4.42 | 14.39 | 63.55 | 3.27 | 0.13 | 0.32 |
| 66.62 | 18.46 | 4.25 | 14.69 | 62.45 | 3.28 | 0.15 | 0.30 |
| 66.68 | 18.67 | 4.31 | 14.87 | 64.07 | 3.29 | 0.14 | 0.31 |
| 66.87 | 18.92 | 4.37 | 15.53 | 67.94 | 3.31 | 0.16 | 0.31 |
| 66.96 | 19.16 | 4.44 | 16.65 | 73.89 | 3.35 | 0.23 | 0.32 |
| 67.11 | 18.25 | 4.17 | 18.76 | 78.15 | 3.42 | 0.27 | 0.30 |
| 67.21 | 16.83 | 3.75 | 20.42 | 76.60 | 3.47 | 0.26 | 0.27 |
| 67.35 | 16.22 | 3.57 | 20.50 | 73.18 | 3.48 | 0.19 | 0.26 |
| 67.45 | 16.16 | 3.55 | 21.95 | 77.86 | 3.52 | 0.19 | 0.25 |
| 67.59 | 27.42 | 6.79 | 13.06 | 88.71 | 3.21 | 0.37 | 0.49 |
| 67.68 | 77.39 | 21.19 | 3.95 | 83.67 | 2.62 | 0.72 | 0.72 |
| 67.83 | 159.77 | 44.89 | 1.66 | 74.68 | 2.22 | 0.38 | 0.69 |
| 67.92 | 241.25 | 68.29 | 1.30 | 88.64 | 1.99 | 0.73 | 0.73 |
| 68.02 | 283.19 | 80.28 | 1.24 | 99.35 | 1.90 | 0.75 | 0.75 |
| 68.07 | 299.01 | 84.78 | 1.22 | 103.71 | 1.88 | 0.75 | 0.75 |
| 68.16 | 305.70 | 86.62 | 1.22 | 105.26 | 1.87 | 0.76 | 0.76 |
| 68.26 | 310.93 | 88.04 | 1.21 | 106.54 | 1.86 | 0.76 | 0.76 |
| 68.35 | 307.75 | 87.05 | 1.22 | 106.44 | 1.88 | 0.76 | 0.76 |
| 68.45 | 299.96 | 84.74 | 1.24 | 105.37 | 1.91 | 0.76 | 0.76 |
| 68.55 | 291.49 | 82.23 | 1.26 | 103.72 | 1.94 | 0.75 | 0.75 |
| 68.65 | 271.72 | 76.50 | 1.29 | 98.57 | 1.98 | 0.75 | 0.75 |
| 68.78 | 253.59 | 71.23 | 1.32 | 94.35 | 2.02 | 0.74 | 0.74 |
| 68.78 | 238.18 | 66.83 | 1.36 | 90.91 | 2.05 | 0.73 | 0.73 |
| 68.79 | 234.24 | 65.70 | 1.37 | 89.70 | 2.06 | 0.73 | 0.73 |
| 68.83 | 237.70 | 66.66 | 1.34 | 89.08 | 2.03 | 0.73 | 0.73 |
| 68.93 | 243.69 | 68.30 | 1.30 | 88.59 | 1.99 | 0.73 | 0.73 |
| 68.98 | 253.54 | 71.08 | 1.25 | 89.18 | 1.93 | 0.73 | 0.73 |
| 69.04 | 257.79 | 72.25 | 1.23 | 89.05 | 1.89 | 0.73 | 0.73 |
| 69.12 | 259.28 | 72.61 | 1.23 | 89.10 | 1.89 | 0.73 | 0.73 |
| 69.22 | 255.36 | 71.43 | 1.24 | 88.23 | 1.90 | 0.72 | 0.72 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 69.28 | 247.73 | 69.22 | 1.25 | 86.25 | 1.91 | 0.72 | 0.72 |
| 69.36 | 237.41 | 66.24 | 1.26 | 83.22 | 1.93 | 0.71 | 0.71 |
| 69.45 | 223.58 | 62.26 | 1.27 | 79.21 | 1.95 | 0.55 | 0.71 |
| 69.60 | 210.12 | 58.37 | 1.29 | 75.34 | 1.98 | 0.40 | 0.70 |
| 69.70 | 198.18 | 54.94 | 1.31 | 72.05 | 2.01 | 0.30 | 0.69 |
| 69.80 | 193.42 | 53.54 | 1.32 | 70.68 | 2.01 | 0.27 | 0.69 |
| 69.89 | 192.07 | 53.12 | 1.32 | 70.30 | 2.02 | 0.26 | 0.68 |
| 69.98 | 190.15 | 52.53 | 1.33 | 69.82 | 2.02 | 0.25 | 0.68 |
| 70.08 | 181.88 | 50.15 | 1.35 | 67.53 | 2.04 | 0.21 | 0.68 |
| 70.18 | 159.82 | 43.89 | 1.45 | 63.51 | 2.12 | 0.15 | 0.67 |
| 70.32 | 124.32 | 33.85 | 1.81 | 61.16 | 2.27 | 0.12 | 0.66 |
| 70.42 | 84.31 | 22.56 | 2.96 | 66.77 | 2.50 | 0.20 | 0.68 |
| 70.54 | 51.82 | 13.41 | 5.53 | 74.19 | 2.77 | 0.36 | 0.69 |
| 70.66 | 31.85 | 7.79 | 9.69 | 75.54 | 3.05 | 0.25 | 0.56 |
| 70.75 | 23.52 | 5.45 | 13.34 | 72.70 | 3.23 | 0.21 | 0.39 |
| 70.80 | 21.80 | 4.97 | 13.43 | 66.71 | 3.23 | 0.18 | 0.35 |
| 70.89 | 22.64 | 5.20 | 11.52 | 59.87 | 3.14 | 0.12 | 0.37 |
| 70.99 | 22.34 | 5.11 | 10.38 | 53.00 | 3.09 | 0.09 | 0.36 |
| 71.08 | 21.63 | 4.90 | 10.09 | 49.46 | 3.07 | 0.07 | 0.35 |
| 71.17 | 21.43 | 4.84 | 9.87 | 47.79 | 3.06 | 0.07 | 0.35 |
| 71.23 | 20.92 | 4.70 | 10.01 | 47.05 | 3.07 | 0.07 | 0.34 |
| 71.33 | 21.09 | 4.74 | 9.74 | 46.20 | 3.05 | 0.06 | 0.34 |
| 71.42 | 21.73 | 4.92 | 9.08 | 44.64 | 3.02 | 0.06 | 0.35 |
| 71.52 | 22.81 | 5.22 | 8.26 | 43.06 | 2.97 | 0.03 | 0.62 |
| 71.58 | 23.21 | 5.33 | 8.27 | 44.01 | 2.97 | 0.04 | 0.62 |
| 71.67 | 22.88 | 5.23 | 9.07 | 47.43 | 3.02 | 0.07 | 0.37 |
| 71.81 | 22.47 | 5.11 | 9.94 | 50.76 | 3.06 | 0.09 | 0.36 |
| 71.82 | 22.24 | 5.04 | 10.42 | 52.55 | 3.09 | 0.09 | 0.36 |
| 71.86 | 21.97 | 4.96 | 10.64 | 52.82 | 3.10 | 0.09 | 0.35 |
| 71.91 | 21.83 | 4.92 | 10.75 | 52.95 | 3.11 | 0.09 | 0.35 |
| 71.97 | 21.60 | 4.86 | 10.97 | 53.27 | 3.12 | 0.09 | 0.35 |
| 72.05 | 21.36 | 4.79 | 11.22 | 53.72 | 3.13 | 0.10 | 0.34 |
| 72.10 | 21.13 | 4.72 | 11.52 | 54.35 | 3.14 | 0.10 | 0.34 |
| 72.20 | 20.99 | 4.68 | 11.71 | 54.79 | 3.15 | 0.10 | 0.33 |
| 72.25 | 20.99 | 4.67 | 11.87 | 55.49 | 3.16 | 0.10 | 0.33 |
| 72.34 | 21.09 | 4.70 | 12.12 | 56.94 | 3.17 | 0.11 | 0.34 |
| 72.44 | 21.09 | 4.69 | 12.53 | 58.80 | 3.19 | 0.12 | 0.34 |
| 72.53 | 20.89 | 4.63 | 13.04 | 60.40 | 3.21 | 0.13 | 0.33 |
| 72.63 | 20.79 | 4.60 | 13.29 | 61.13 | 3.22 | 0.14 | 0.33 |
| 72.69 | 20.48 | 4.51 | 13.55 | 61.14 | 3.23 | 0.14 | 0.32 |
| 72.82 | 20.69 | 4.56 | 13.34 | 60.87 | 3.23 | 0.13 | 0.33 |
| 72.92 | 21.13 | 4.68 | 12.83 | 60.05 | 3.20 | 0.13 | 0.33 |
| 73.06 | 22.11 | 4.95 | 11.98 | 59.27 | 3.17 | 0.12 | 0.35 |
| 73.16 | 22.34 | 5.01 | 11.90 | 59.57 | 3.16 | 0.12 | 0.36 |
| 73.30 | 20.86 | 4.59 | 13.21 | 60.65 | 3.22 | 0.14 | 0.33 |
| 73.35 | 19.88 | 4.32 | 14.25 | 61.53 | 3.26 | 0.14 | 0.31 |
| 73.38 | 19.20 | 4.13 | 14.83 | 61.23 | 3.29 | 0.13 | 0.30 |
| 73.47 | 20.02 | 4.35 | 13.95 | 60.67 | 3.25 | 0.13 | 0.31 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 73.53 | 20.08 | 4.37 | 13.79 | 60.20 | 3.24 | 0.13 | 0.31 |
| 73.62 | 20.18 | 4.39 | 13.66 | 59.95 | 3.24 | 0.13 | 0.31 |
| 73.71 | 19.95 | 4.32 | 13.95 | 60.28 | 3.25 | 0.13 | 0.31 |
| 73.77 | 19.61 | 4.23 | 14.55 | 61.46 | 3.28 | 0.13 | 0.30 |
| 73.86 | 19.34 | 4.15 | 15.21 | 63.08 | 3.30 | 0.15 | 0.30 |
| 73.96 | 19.38 | 4.15 | 15.56 | 64.61 | 3.31 | 0.15 | 0.30 |
| 74.06 | 19.58 | 4.20 | 15.60 | 65.59 | 3.32 | 0.16 | 0.30 |
| 74.13 | 20.02 | 4.32 | 15.32 | 66.22 | 3.31 | 0.16 | 0.31 |
| 74.24 | 20.36 | 4.41 | 15.12 | 66.66 | 3.30 | 0.17 | 0.31 |
| 74.34 | 20.56 | 4.46 | 15.08 | 67.26 | 3.30 | 0.17 | 0.32 |
| 74.44 | 20.42 | 4.42 | 15.35 | 67.81 | 3.31 | 0.18 | 0.32 |
| 74.58 | 20.37 | 4.40 | 15.30 | 67.28 | 3.30 | 0.18 | 0.31 |
| 74.68 | 20.30 | 4.38 | 14.35 | 62.80 | 3.27 | 0.16 | 0.31 |
| 74.80 | 20.47 | 4.42 | 13.30 | 58.74 | 3.22 | 0.09 | 0.32 |
| 74.92 | 20.26 | 4.35 | 12.97 | 56.43 | 3.21 | 0.11 | 0.31 |
| 75.07 | 20.06 | 4.29 | 13.60 | 58.35 | 3.24 | 0.12 | 0.31 |
| 75.08 | 19.75 | 4.21 | 14.10 | 59.34 | 3.26 | 0.12 | 0.30 |
| 75.11 | 19.62 | 4.17 | 14.28 | 59.53 | 3.26 | 0.12 | 0.30 |
| 75.16 | 19.55 | 4.15 | 14.53 | 60.28 | 3.27 | 0.13 | 0.30 |
| 75.25 | 19.31 | 4.08 | 15.14 | 61.74 | 3.30 | 0.13 | 0.29 |
| 75.32 | 19.14 | 4.03 | 15.69 | 63.23 | 3.32 | 0.15 | 0.29 |
| 75.40 | 18.98 | 3.98 | 16.00 | 63.73 | 3.33 | 0.15 | 0.28 |
| 75.50 | 18.81 | 3.93 | 15.96 | 62.77 | 3.33 | 0.14 | 0.28 |
| 75.59 | 18.30 | 3.79 | 16.02 | 60.75 | 3.33 | 0.13 | 0.27 |
| 75.69 | 17.56 | 3.59 | 16.34 | 58.60 | 3.34 | 0.11 | 0.26 |
| 75.78 | 16.85 | 3.39 | 16.66 | 56.46 | 3.35 | 0.11 | 0.24 |
| 75.88 | 16.41 | 3.27 | 16.73 | 54.66 | 3.36 | 0.10 | 0.23 |
| 75.96 | 16.11 | 3.18 | 16.62 | 52.90 | 3.35 | 0.09 | 0.23 |
| 76.05 | 16.04 | 3.16 | 16.34 | 51.65 | 3.34 | 0.08 | 0.23 |
| 76.14 | 15.97 | 3.14 | 16.25 | 51.00 | 3.34 | 0.08 | 0.22 |
| 76.26 | 16.07 | 3.16 | 16.16 | 51.09 | 3.34 | 0.08 | 0.23 |
| 76.36 | 16.07 | 3.16 | 16.26 | 51.38 | 3.34 | 0.08 | 0.23 |
| 76.41 | 16.07 | 3.16 | 16.31 | 51.50 | 3.34 | 0.08 | 0.23 |
| 76.51 | 15.84 | 3.09 | 16.56 | 51.17 | 3.35 | 0.08 | 0.22 |
| 76.65 | 15.50 | 2.99 | 17.04 | 51.04 | 3.37 | 0.08 | 0.21 |
| 76.72 | 15.26 | 2.93 | 17.45 | 51.12 | 3.38 | 0.08 | 0.21 |
| 76.79 | 15.16 | 2.90 | 17.72 | 51.39 | 3.39 | 0.08 | 0.21 |
| 76.89 | 15.23 | 2.91 | 18.36 | 53.53 | 3.41 | 0.08 | 0.21 |
| 76.98 | 15.47 | 2.98 | 20.80 | 61.89 | 3.48 | 0.11 | 0.21 |
| 77.08 | 18.00 | 3.65 | 19.05 | 69.60 | 3.43 | 0.21 | 0.26 |
| 77.18 | 22.18 | 4.77 | 16.19 | 77.29 | 3.34 | 0.23 | 0.34 |
| 77.28 | 26.73 | 5.99 | 14.06 | 84.26 | 3.26 | 0.29 | 0.43 |
| 77.37 | 27.88 | 6.30 | 14.87 | 93.62 | 3.29 | 0.40 | 0.45 |
| 77.42 | 28.76 | 6.53 | 15.41 | 100.64 | 3.31 | 0.49 | 0.47 |
| 77.42 | 30.22 | 6.92 | 15.09 | 104.44 | 3.30 | 0.50 | 0.49 |
| 77.44 | 34.00 | 7.94 | 13.49 | 107.05 | 3.23 | 0.53 | 0.57 |
| 77.48 | 37.40 | 8.85 | 12.47 | 110.31 | 3.19 | 0.60 | 0.63 |
| 77.52 | 40.61 | 9.70 | 11.65 | 113.00 | 3.15 | 0.64 | 0.69 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 77.54 | 42.94 | 10.33 | 11.08 | 114.44 | 3.12 | 0.66 | 0.74 |
| 77.57 | 43.37 | 10.44 | 11.07 | 115.54 | 3.12 | 0.68 | 0.75 |
| 77.62 | 42.26 | 10.14 | 11.44 | 115.93 | 3.14 | 0.69 | 0.72 |
| 77.65 | 40.10 | 9.55 | 12.10 | 115.64 | 3.17 | 0.66 | 0.68 |
| 77.67 | 38.72 | 9.18 | 12.34 | 113.32 | 3.18 | 0.65 | 0.66 |
| 77.71 | 37.91 | 8.96 | 12.41 | 111.24 | 3.19 | 0.59 | 0.64 |
| 77.71 | 37.03 | 8.73 | 12.35 | 107.78 | 3.18 | 0.58 | 0.62 |
| 77.76 | 34.77 | 8.12 | 12.85 | 104.25 | 3.20 | 0.52 | 0.58 |
| 77.81 | 31.76 | 7.31 | 13.53 | 98.88 | 3.23 | 0.45 | 0.52 |
| 77.90 | 29.03 | 6.57 | 14.40 | 94.60 | 3.27 | 0.39 | 0.47 |
| 77.95 | 27.32 | 6.11 | 15.14 | 92.44 | 3.30 | 0.37 | 0.44 |
| 78.01 | 26.34 | 5.84 | 15.63 | 91.29 | 3.32 | 0.38 | 0.42 |
| 78.10 | 27.59 | 6.17 | 14.49 | 89.37 | 3.27 | 0.35 | 0.44 |
| 78.16 | 36.29 | 8.49 | 9.98 | 84.71 | 3.07 | 0.33 | 0.61 |
| 78.24 | 48.94 | 11.86 | 6.66 | 79.05 | 2.86 | 0.54 | 0.70 |
| 78.29 | 64.83 | 16.10 | 4.54 | 73.14 | 2.68 | 0.33 | 0.69 |
| 78.39 | 77.42 | 19.44 | 3.56 | 69.27 | 2.58 | 0.24 | 0.68 |
| 78.47 | 87.30 | 22.06 | 3.11 | 68.51 | 2.52 | 0.23 | 0.68 |
| 78.53 | 92.74 | 23.49 | 3.05 | 71.72 | 2.51 | 0.29 | 0.69 |
| 78.62 | 94.25 | 23.88 | 3.25 | 77.71 | 2.54 | 0.48 | 0.70 |
| 78.68 | 91.22 | 23.06 | 3.64 | 84.02 | 2.59 | 0.72 | 0.72 |
| 78.69 | 92.97 | 23.52 | 3.81 | 89.57 | 2.61 | 0.73 | 0.73 |
| 78.78 | 93.95 | 23.76 | 4.00 | 95.10 | 2.63 | 0.74 | 0.74 |
| 78.81 | 94.86 | 24.00 | 4.25 | 102.04 | 2.65 | 0.75 | 0.75 |
| 78.92 | 85.28 | 21.43 | 5.01 | 107.35 | 2.73 | 0.76 | 0.76 |
| 79.03 | 72.83 | 18.11 | 5.93 | 107.43 | 2.81 | 0.76 | 0.76 |
| 79.16 | 68.41 | 16.91 | 5.87 | 99.26 | 2.80 | 0.75 | 0.75 |
| 79.26 | 78.39 | 19.54 | 4.53 | 88.45 | 2.68 | 0.73 | 0.73 |
| 79.35 | 97.35 | 24.54 | 3.42 | 83.92 | 2.56 | 0.72 | 0.72 |
| 79.45 | 114.43 | 29.03 | 2.95 | 85.78 | 2.50 | 0.72 | 0.72 |
| 79.54 | 124.25 | 31.60 | 2.84 | 89.58 | 2.48 | 0.73 | 0.73 |
| 79.64 | 131.23 | 33.41 | 2.75 | 91.91 | 2.47 | 0.73 | 0.73 |
| 79.74 | 153.43 | 39.23 | 2.39 | 93.85 | 2.40 | 0.74 | 0.74 |
| 79.88 | 186.93 | 48.00 | 1.98 | 94.86 | 2.31 | 0.74 | 0.74 |
| 79.98 | 228.94 | 59.00 | 1.62 | 95.73 | 2.20 | 0.74 | 0.74 |
| 80.12 | 248.77 | 64.13 | 1.48 | 95.14 | 2.14 | 0.74 | 0.74 |
| 80.22 | 253.19 | 65.23 | 1.40 | 91.22 | 2.09 | 0.73 | 0.73 |
| 80.36 | 244.79 | 62.94 | 1.37 | 86.07 | 2.06 | 0.72 | 0.72 |
| 80.46 | 238.82 | 61.33 | 1.32 | 81.11 | 2.02 | 0.64 | 0.71 |
| 80.60 | 231.84 | 59.42 | 1.30 | 77.21 | 1.99 | 0.46 | 0.70 |
| 80.70 | 223.91 | 57.30 | 1.30 | 74.37 | 1.99 | 0.37 | 0.69 |
| 80.83 | 213.12 | 54.42 | 1.32 | 72.04 | 2.02 | 0.30 | 0.69 |
| 80.94 | 194.49 | 49.51 | 1.41 | 69.62 | 2.09 | 0.25 | 0.68 |
| 81.01 | 177.96 | 45.17 | 1.50 | 67.91 | 2.15 | 0.21 | 0.68 |
| 81.04 | 164.23 | 41.58 | 1.60 | 66.50 | 2.19 | 0.19 | 0.67 |
| 81.09 | 158.43 | 40.05 | 1.65 | 65.97 | 2.21 | 0.18 | 0.67 |
| 81.13 | 149.59 | 37.74 | 1.75 | 66.04 | 2.25 | 0.18 | 0.67 |
| 81.18 | 136.87 | 34.41 | 1.98 | 67.98 | 2.31 | 0.22 | 0.68 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 81.23 | 123.31 | 30.87 | 2.34 | 72.13 | 2.39 | 0.30 | 0.69 |
| 81.28 | 109.41 | 27.24 | 2.85 | 77.64 | 2.48 | 0.48 | 0.70 |
| 81.33 | 98.17 | 24.30 | 3.46 | 84.19 | 2.57 | 0.72 | 0.72 |
| 81.37 | 88.49 | 21.78 | 4.25 | 92.48 | 2.65 | 0.73 | 0.73 |
| 81.42 | 81.24 | 19.88 | 5.05 | 100.46 | 2.73 | 0.75 | 0.75 |
| 81.47 | 75.77 | 18.46 | 5.75 | 106.15 | 2.79 | 0.76 | 0.76 |
| 81.52 | 71.99 | 17.47 | 6.25 | 109.13 | 2.83 | 0.76 | 0.76 |
| 81.56 | 70.98 | 17.20 | 6.46 | 111.09 | 2.85 | 0.77 | 0.77 |
| 81.61 | 70.58 | 17.08 | 6.60 | 112.75 | 2.86 | 0.77 | 0.77 |
| 81.64 | 68.79 | 16.62 | 6.89 | 114.41 | 2.88 | 0.77 | 0.77 |
| 81.70 | 62.18 | 14.89 | 7.85 | 116.91 | 2.94 | 0.78 | 0.78 |
| 81.75 | 54.38 | 12.87 | 9.25 | 118.94 | 3.03 | 0.76 | 0.92 |
| 81.79 | 46.89 | 10.92 | 10.91 | 119.14 | 3.11 | 0.73 | 0.78 |
| 81.82 | 41.90 | 9.62 | 12.12 | 116.62 | 3.17 | 0.68 | 0.69 |
| 81.86 | 37.62 | 8.51 | 13.21 | 112.49 | 3.22 | 0.61 | 0.61 |
| 81.91 | 34.01 | 7.57 | 14.21 | 107.66 | 3.26 | 0.54 | 0.54 |
| 81.95 | 30.63 | 6.70 | 15.27 | 102.27 | 3.30 | 0.48 | 0.48 |
| 82.00 | 27.33 | 5.84 | 16.41 | 95.81 | 3.34 | 0.41 | 0.42 |
| 82.09 | 24.26 | 5.04 | 17.74 | 89.46 | 3.39 | 0.33 | 0.36 |
| 82.15 | 21.66 | 4.37 | 19.38 | 84.64 | 3.44 | 0.29 | 0.31 |
| 82.19 | 19.83 | 3.89 | 20.80 | 81.03 | 3.48 | 0.27 | 0.28 |
| 82.26 | 18.38 | 3.52 | 22.06 | 77.56 | 3.52 | 0.23 | 0.25 |
| 82.34 | 17.00 | 3.16 | 23.49 | 74.17 | 3.56 | 0.21 | 0.23 |
| 82.39 | 15.65 | 2.81 | 25.58 | 71.81 | 3.61 | 0.20 | 0.20 |
| 82.48 | 14.77 | 2.58 | 27.14 | 69.97 | 3.64 | 0.18 | 0.18 |
| 82.58 | 14.64 | 2.54 | 26.84 | 68.21 | 3.64 | 0.17 | 0.18 |
| 82.62 | 14.74 | 2.57 | 25.95 | 66.60 | 3.62 | 0.16 | 0.18 |
| 82.70 | 14.88 | 2.60 | 25.23 | 65.56 | 3.60 | 0.15 | 0.19 |
| 82.77 | 14.81 | 2.58 | 24.98 | 64.46 | 3.59 | 0.15 | 0.18 |
| 82.87 | 15.08 | 2.65 | 24.19 | 64.01 | 3.57 | 0.14 | 0.19 |
| 82.96 | 16.23 | 2.94 | 21.57 | 63.38 | 3.51 | 0.14 | 0.21 |
| 83.06 | 18.22 | 3.45 | 18.38 | 63.34 | 3.41 | 0.14 | 0.25 |
| 83.16 | 21.39 | 4.26 | 14.82 | 63.10 | 3.29 | 0.14 | 0.30 |
| 83.25 | 24.46 | 5.04 | 12.49 | 62.94 | 3.19 | 0.15 | 0.36 |
| 83.34 | 27.20 | 5.74 | 10.91 | 62.57 | 3.11 | 0.15 | 0.41 |
| 83.44 | 28.34 | 6.03 | 10.55 | 63.55 | 3.10 | 0.15 | 0.43 |
| 83.54 | 28.75 | 6.12 | 10.60 | 64.89 | 3.10 | 0.17 | 0.44 |
| 83.64 | 28.61 | 6.08 | 10.93 | 66.49 | 3.12 | 0.17 | 0.43 |
| 83.73 | 27.70 | 5.84 | 11.68 | 68.29 | 3.15 | 0.18 | 0.42 |
| 83.83 | 27.26 | 5.73 | 12.30 | 70.46 | 3.18 | 0.20 | 0.41 |
| 83.85 | 26.83 | 5.62 | 13.07 | 73.38 | 3.21 | 0.21 | 0.40 |
| 83.89 | 27.47 | 5.78 | 13.14 | 75.93 | 3.22 | 0.24 | 0.41 |
| 83.94 | 28.11 | 5.94 | 13.69 | 81.26 | 3.24 | 0.26 | 0.42 |
| 84.04 | 29.26 | 6.23 | 13.80 | 85.92 | 3.25 | 0.34 | 0.44 |
| 84.09 | 30.40 | 6.51 | 13.83 | 90.10 | 3.25 | 0.36 | 0.47 |
| 84.13 | 31.28 | 6.74 | 13.65 | 91.94 | 3.24 | 0.37 | 0.48 |
| 84.18 | 31.68 | 6.83 | 13.70 | 93.61 | 3.24 | 0.40 | 0.49 |
| 84.25 | 31.52 | 6.79 | 13.97 | 94.85 | 3.25 | 0.41 | 0.48 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 84.33 | 30.64 | 6.56 | 14.57 | 95.60 | 3.28 | 0.41 | 0.47 |
| 84.37 | 29.46 | 6.26 | 15.33 | 95.90 | 3.31 | 0.41 | 0.45 |
| 84.46 | 28.35 | 5.97 | 15.91 | 94.98 | 3.33 | 0.41 | 0.43 |
| 84.52 | 27.50 | 5.75 | 16.25 | 93.43 | 3.34 | 0.38 | 0.41 |
| 84.57 | 26.90 | 5.59 | 16.32 | 91.27 | 3.34 | 0.36 | 0.40 |
| 84.67 | 26.52 | 5.49 | 16.38 | 90.00 | 3.34 | 0.34 | 0.39 |
| 84.71 | 26.15 | 5.40 | 16.62 | 89.72 | 3.35 | 0.34 | 0.39 |
| 84.81 | 25.58 | 5.25 | 17.32 | 90.86 | 3.38 | 0.35 | 0.37 |
| 84.86 | 24.84 | 5.06 | 18.32 | 92.62 | 3.41 | 0.37 | 0.36 |
| 84.91 | 24.06 | 4.86 | 19.36 | 94.03 | 3.44 | 0.38 | 0.35 |
| 85.00 | 23.42 | 4.69 | 20.18 | 94.63 | 3.47 | 0.39 | 0.33 |
| 85.05 | 22.81 | 4.53 | 20.72 | 93.94 | 3.48 | 0.39 | 0.32 |
| 85.15 | 22.34 | 4.41 | 20.94 | 92.30 | 3.49 | 0.36 | 0.31 |
| 85.19 | 21.80 | 4.27 | 20.88 | 89.13 | 3.49 | 0.34 | 0.30 |
| 85.29 | 21.33 | 4.15 | 20.74 | 85.98 | 3.48 | 0.30 | 0.30 |
| 85.35 | 20.72 | 3.99 | 20.84 | 83.14 | 3.49 | 0.28 | 0.28 |
| 85.42 | 20.08 | 3.82 | 21.32 | 81.54 | 3.50 | 0.27 | 0.27 |
| 85.48 | 19.40 | 3.65 | 22.03 | 80.45 | 3.52 | 0.26 | 0.26 |
| 85.55 | 18.77 | 3.49 | 22.80 | 79.50 | 3.54 | 0.25 | 0.25 |
| 85.63 | 18.19 | 3.34 | 23.58 | 78.76 | 3.56 | 0.25 | 0.24 |
| 85.68 | 17.62 | 3.19 | 24.50 | 78.25 | 3.58 | 0.24 | 0.23 |
| 85.77 | 17.18 | 3.08 | 25.34 | 78.03 | 3.60 | 0.24 | 0.22 |
| 85.82 | 17.04 | 3.04 | 25.74 | 78.34 | 3.61 | 0.24 | 0.22 |
| 85.89 | 17.42 | 3.13 | 25.13 | 78.79 | 3.60 | 0.25 | 0.22 |
| 85.96 | 18.33 | 3.36 | 23.51 | 79.01 | 3.56 | 0.25 | 0.24 |
| 86.03 | 19.71 | 3.71 | 21.16 | 78.44 | 3.49 | 0.25 | 0.26 |
| 86.11 | 21.06 | 4.04 | 19.14 | 77.40 | 3.44 | 0.24 | 0.29 |
| 86.16 | 22.11 | 4.30 | 17.71 | 76.21 | 3.39 | 0.23 | 0.31 |
| 86.25 | 21.67 | 4.19 | 18.09 | 75.81 | 3.40 | 0.22 | 0.30 |
| 86.36 | 19.98 | 3.76 | 19.76 | 74.32 | 3.45 | 0.23 | 0.27 |
| 86.50 | 18.16 | 3.30 | 22.08 | 72.85 | 3.52 | 0.19 | 0.24 |
| 86.51 | 17.25 | 3.07 | 23.09 | 70.91 | 3.55 | 0.19 | 0.22 |
| 86.52 | 17.32 | 3.09 | 22.53 | 69.58 | 3.53 | 0.19 | 0.22 |
| 86.57 | 17.35 | 3.10 | 21.58 | 66.80 | 3.51 | 0.17 | 0.22 |
| 86.65 | 17.39 | 3.10 | 20.48 | 63.50 | 3.48 | 0.13 | 0.22 |
| 86.71 | 17.35 | 3.09 | 19.65 | 60.73 | 3.45 | 0.13 | 0.22 |
| 86.80 | 17.08 | 3.02 | 19.57 | 59.11 | 3.45 | 0.12 | 0.22 |
| 86.90 | 16.48 | 2.87 | 20.04 | 57.42 | 3.46 | 0.11 | 0.20 |
| 86.99 | 15.77 | 2.69 | 20.75 | 55.74 | 3.48 | 0.10 | 0.19 |
| 87.04 | 15.26 | 2.56 | 21.24 | 54.32 | 3.50 | 0.09 | 0.18 |
| 87.14 | 15.16 | 2.53 | 21.16 | 53.51 | 3.49 | 0.09 | 0.18 |
| 87.19 | 15.36 | 2.58 | 20.70 | 53.36 | 3.48 | 0.09 | 0.18 |
| 87.28 | 15.87 | 2.70 | 20.13 | 54.40 | 3.46 | 0.09 | 0.19 |
| 87.38 | 16.51 | 2.86 | 19.47 | 55.67 | 3.45 | 0.10 | 0.20 |
| 87.43 | 17.18 | 3.03 | 18.79 | 56.85 | 3.42 | 0.11 | 0.22 |
| 87.52 | 17.76 | 3.17 | 18.12 | 57.36 | 3.40 | 0.11 | 0.23 |
| 87.61 | 18.23 | 3.28 | 17.55 | 57.58 | 3.38 | 0.11 | 0.23 |
| 87.66 | 18.53 | 3.35 | 17.13 | 57.47 | 3.37 | 0.11 | 0.24 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 87.76 | 18.57 | 3.36 | 17.00 | 57.12 | 3.37 | 0.11 | 0.24 |
| 87.84 | 18.43 | 3.32 | 17.02 | 56.58 | 3.37 | 0.10 | 0.24 |
| 87.91 | 18.13 | 3.25 | 17.27 | 56.08 | 3.37 | 0.10 | 0.23 |
| 88.00 | 17.79 | 3.16 | 17.58 | 55.54 | 3.39 | 0.10 | 0.23 |
| 88.11 | 17.46 | 3.07 | 17.98 | 55.23 | 3.40 | 0.10 | 0.22 |
| 88.19 | 17.22 | 3.01 | 18.27 | 55.01 | 3.41 | 0.10 | 0.22 |
| 88.25 | 17.08 | 2.98 | 18.42 | 54.79 | 3.41 | 0.10 | 0.21 |
| 88.34 | 17.02 | 2.96 | 18.36 | 54.27 | 3.41 | 0.09 | 0.21 |
| 88.44 | 16.98 | 2.94 | 18.20 | 53.59 | 3.41 | 0.09 | 0.21 |
| 88.54 | 16.98 | 2.94 | 17.99 | 52.93 | 3.40 | 0.09 | 0.21 |
| 88.64 | 16.95 | 2.93 | 17.92 | 52.52 | 3.40 | 0.08 | 0.21 |
| 88.72 | 16.88 | 2.91 | 18.00 | 52.42 | 3.40 | 0.08 | 0.21 |
| 88.82 | 16.82 | 2.89 | 18.16 | 52.53 | 3.40 | 0.08 | 0.21 |
| 88.91 | 16.72 | 2.87 | 18.42 | 52.79 | 3.41 | 0.08 | 0.20 |
| 89.01 | 16.62 | 2.84 | 18.68 | 53.02 | 3.42 | 0.09 | 0.20 |
| 89.10 | 16.49 | 2.80 | 18.99 | 53.22 | 3.43 | 0.09 | 0.20 |
| 89.19 | 16.32 | 2.76 | 19.19 | 52.91 | 3.44 | 0.09 | 0.20 |
| 89.30 | 16.21 | 2.73 | 18.48 | 50.44 | 3.41 | 0.08 | 0.19 |
| 89.39 | 16.31 | 2.75 | 17.80 | 48.98 | 3.39 | 0.05 | 0.20 |
| 89.49 | 16.62 | 2.82 | 17.53 | 49.49 | 3.38 | 0.07 | 0.20 |
| 89.59 | 16.90 | 2.89 | 18.25 | 52.76 | 3.41 | 0.09 | 0.21 |
| 89.69 | 17.04 | 2.92 | 18.79 | 54.90 | 3.42 | 0.10 | 0.21 |
| 89.73 | 17.68 | 3.08 | 18.14 | 55.86 | 3.40 | 0.10 | 0.22 |
| 89.78 | 18.48 | 3.27 | 17.18 | 56.23 | 3.37 | 0.10 | 0.23 |
| 89.83 | 19.36 | 3.49 | 16.22 | 56.56 | 3.34 | 0.10 | 0.25 |
| 89.88 | 19.63 | 3.55 | 16.06 | 57.05 | 3.33 | 0.11 | 0.25 |
| 89.93 | 19.86 | 3.61 | 16.01 | 57.77 | 3.33 | 0.11 | 0.26 |
| 90.00 | 20.24 | 3.70 | 15.90 | 58.79 | 3.33 | 0.11 | 0.26 |
| 90.07 | 20.88 | 3.85 | 15.53 | 59.82 | 3.31 | 0.12 | 0.28 |
| 90.12 | 21.62 | 4.03 | 15.19 | 61.24 | 3.30 | 0.13 | 0.29 |
| 90.22 | 22.26 | 4.19 | 15.01 | 62.84 | 3.29 | 0.14 | 0.30 |
| 90.27 | 23.04 | 4.37 | 15.02 | 65.70 | 3.29 | 0.15 | 0.31 |
| 90.36 | 24.99 | 4.85 | 14.09 | 68.34 | 3.26 | 0.18 | 0.35 |
| 90.46 | 27.46 | 5.45 | 12.89 | 70.27 | 3.21 | 0.20 | 0.39 |
| 90.50 | 29.28 | 5.89 | 12.05 | 71.01 | 3.17 | 0.20 | 0.42 |
| 90.61 | 29.48 | 5.94 | 12.02 | 71.39 | 3.17 | 0.20 | 0.42 |
| 90.66 | 28.70 | 5.75 | 12.38 | 71.12 | 3.18 | 0.20 | 0.41 |
| 90.75 | 27.62 | 5.48 | 12.73 | 69.74 | 3.20 | 0.19 | 0.39 |
| 90.84 | 26.17 | 5.12 | 13.28 | 67.94 | 3.22 | 0.17 | 0.37 |
| 90.89 | 24.72 | 4.76 | 13.90 | 66.20 | 3.25 | 0.16 | 0.34 |
| 90.99 | 23.48 | 4.45 | 14.63 | 65.12 | 3.28 | 0.15 | 0.32 |
| 91.04 | 22.50 | 4.21 | 15.24 | 64.21 | 3.30 | 0.15 | 0.30 |
| 91.14 | 21.59 | 3.99 | 15.98 | 63.69 | 3.33 | 0.14 | 0.28 |
| 91.22 | 20.75 | 3.78 | 16.73 | 63.19 | 3.36 | 0.14 | 0.27 |
| 91.28 | 19.83 | 3.55 | 17.61 | 62.55 | 3.39 | 0.14 | 0.25 |
| 91.37 | 19.26 | 3.41 | 18.11 | 61.75 | 3.40 | 0.13 | 0.24 |
| 91.47 | 18.99 | 3.34 | 18.18 | 60.75 | 3.40 | 0.13 | 0.24 |
| 91.61 | 19.26 | 3.40 | 17.69 | 60.19 | 3.39 | 0.12 | 0.24 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 91.71 | 19.40 | 3.43 | 17.48 | 59.97 | 3.38 | 0.12 | 0.25 |
| 91.81 | 19.50 | 3.45 | 17.39 | 60.03 | 3.38 | 0.12 | 0.25 |
| 91.87 | 19.36 | 3.42 | 17.46 | 59.68 | 3.38 | 0.12 | 0.24 |
| 92.00 | 19.38 | 3.42 | 16.82 | 57.50 | 3.36 | 0.12 | 0.24 |
| 92.10 | 19.41 | 3.42 | 16.30 | 55.77 | 3.34 | 0.09 | 0.24 |
| 92.20 | 19.62 | 3.47 | 15.85 | 54.98 | 3.32 | 0.09 | 0.25 |
| 92.33 | 19.76 | 3.50 | 16.12 | 56.37 | 3.33 | 0.10 | 0.25 |
| 92.38 | 19.89 | 3.53 | 16.27 | 57.43 | 3.34 | 0.11 | 0.25 |
| 92.43 | 20.03 | 3.56 | 16.28 | 57.96 | 3.34 | 0.11 | 0.25 |
| 92.48 | 19.98 | 3.55 | 16.52 | 58.57 | 3.35 | 0.11 | 0.25 |
| 92.56 | 19.88 | 3.52 | 16.79 | 59.09 | 3.36 | 0.12 | 0.25 |
| 92.63 | 19.64 | 3.46 | 17.17 | 59.41 | 3.37 | 0.12 | 0.25 |
| 92.67 | 19.57 | 3.44 | 17.27 | 59.42 | 3.37 | 0.12 | 0.25 |
| 92.72 | 19.54 | 3.43 | 17.30 | 59.38 | 3.38 | 0.12 | 0.25 |
| 92.77 | 19.64 | 3.46 | 17.18 | 59.37 | 3.37 | 0.12 | 0.25 |
| 92.86 | 19.84 | 3.50 | 16.99 | 59.49 | 3.37 | 0.12 | 0.25 |
| 92.92 | 20.08 | 3.56 | 16.84 | 59.88 | 3.36 | 0.12 | 0.25 |
| 92.97 | 20.21 | 3.59 | 17.01 | 61.03 | 3.37 | 0.12 | 0.26 |
| 93.05 | 20.35 | 3.62 | 17.17 | 62.12 | 3.37 | 0.14 | 0.26 |
| 93.10 | 20.62 | 3.68 | 17.13 | 63.07 | 3.37 | 0.14 | 0.26 |
| 93.16 | 21.10 | 3.79 | 16.68 | 63.28 | 3.35 | 0.14 | 0.27 |
| 93.25 | 21.70 | 3.94 | 16.06 | 63.20 | 3.33 | 0.14 | 0.28 |
| 93.35 | 22.78 | 4.19 | 14.99 | 62.84 | 3.29 | 0.14 | 0.30 |
| 93.40 | 23.19 | 4.29 | 14.52 | 62.27 | 3.27 | 0.14 | 0.31 |
| 93.49 | 23.25 | 4.30 | 14.38 | 61.82 | 3.27 | 0.13 | 0.31 |
| 93.56 | 22.71 | 4.17 | 14.77 | 61.55 | 3.28 | 0.13 | 0.30 |
| 93.64 | 22.88 | 4.21 | 14.66 | 61.65 | 3.28 | 0.13 | 0.30 |
| 93.73 | 23.63 | 4.38 | 14.34 | 62.81 | 3.27 | 0.13 | 0.31 |
| 93.83 | 24.91 | 4.69 | 13.81 | 64.72 | 3.25 | 0.15 | 0.33 |
| 93.88 | 26.43 | 5.05 | 13.44 | 67.85 | 3.23 | 0.17 | 0.36 |
| 93.97 | 27.01 | 5.18 | 13.58 | 70.35 | 3.24 | 0.20 | 0.37 |
| 94.07 | 26.43 | 5.04 | 14.48 | 72.95 | 3.27 | 0.20 | 0.36 |
| 94.17 | 25.76 | 4.87 | 15.51 | 75.57 | 3.31 | 0.22 | 0.35 |
| 94.26 | 26.70 | 5.09 | 15.04 | 76.60 | 3.29 | 0.25 | 0.36 |
| 94.36 | 27.88 | 5.37 | 15.22 | 81.75 | 3.30 | 0.23 | 0.38 |
| 94.45 | 29.47 | 5.75 | 15.14 | 87.02 | 3.30 | 0.34 | 0.41 |
| 94.55 | 35.88 | 7.27 | 12.61 | 91.74 | 3.19 | 0.39 | 0.52 |
| 94.64 | 48.46 | 10.27 | 8.71 | 89.52 | 3.00 | 0.73 | 0.73 |
| 94.72 | 59.93 | 13.01 | 6.55 | 85.22 | 2.85 | 0.72 | 0.72 |
| 94.74 | 73.87 | 16.33 | 4.89 | 79.85 | 2.72 | 0.58 | 0.71 |
| 94.77 | 84.50 | 18.86 | 4.08 | 76.98 | 2.64 | 0.45 | 0.70 |
| 94.85 | 97.35 | 21.92 | 3.39 | 74.39 | 2.56 | 0.37 | 0.69 |
| 94.90 | 102.75 | 23.20 | 3.24 | 75.17 | 2.54 | 0.39 | 0.70 |
| 94.95 | 105.32 | 23.80 | 3.27 | 77.89 | 2.54 | 0.49 | 0.70 |
| 95.01 | 104.68 | 23.63 | 3.61 | 85.22 | 2.58 | 0.72 | 0.72 |
| 95.09 | 100.83 | 22.70 | 4.16 | 94.37 | 2.64 | 0.74 | 0.74 |
| 95.14 | 94.49 | 21.18 | 5.05 | 107.02 | 2.73 | 0.76 | 0.76 |
| 95.23 | 86.42 | 19.25 | 6.10 | 117.34 | 2.82 | 0.78 | 0.78 |

**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 95.29 | 78.06 | 17.25 | 7.36 | 126.89 | 2.91 | 0.79 | 0.79 |
| 95.38 | 71.11 | 15.59 | 8.45 | 131.69 | 2.98 | 0.80 | 0.80 |
| 95.43 | 67.53 | 14.73 | 9.06 | 133.43 | 3.02 | 0.97 | 1.05 |
| 95.52 | 67.83 | 14.79 | 8.96 | 132.50 | 3.01 | 0.95 | 1.06 |
| 95.57 | 70.23 | 15.35 | 8.40 | 128.95 | 2.98 | 0.80 | 0.80 |
| 95.67 | 71.24 | 15.58 | 7.93 | 123.49 | 2.95 | 0.79 | 0.79 |
| 95.77 | 66.52 | 14.45 | 8.22 | 118.72 | 2.97 | 0.78 | 0.78 |
| 95.86 | 56.97 | 12.17 | 9.76 | 118.80 | 3.06 | 0.69 | 0.87 |
| 95.95 | 52.94 | 11.21 | 10.40 | 116.56 | 3.09 | 0.74 | 0.80 |
| 96.03 | 46.73 | 9.74 | 12.16 | 118.40 | 3.17 | 0.62 | 0.70 |
| 96.11 | 51.55 | 10.87 | 10.92 | 118.64 | 3.12 | 0.68 | 0.78 |
| 96.20 | 59.20 | 12.66 | 9.84 | 124.65 | 3.06 | 0.80 | 0.90 |
| 96.30 | 80.15 | 17.59 | 7.15 | 125.73 | 2.90 | 0.79 | 0.79 |
| 96.39 | 101.37 | 22.58 | 5.51 | 124.50 | 2.77 | 0.79 | 0.79 |
| 96.50 | 122.96 | 27.64 | 4.35 | 120.31 | 2.67 | 0.78 | 0.78 |
| 96.59 | 144.96 | 32.80 | 3.25 | 106.72 | 2.54 | 0.76 | 0.76 |
| 96.69 | 164.86 | 37.45 | 2.44 | 91.36 | 2.41 | 0.73 | 0.73 |
| 96.78 | 180.18 | 41.02 | 1.89 | 77.51 | 2.29 | 0.47 | 0.70 |
| 96.87 | 185.95 | 42.35 | 1.72 | 72.98 | 2.24 | 0.33 | 0.69 |
| 96.98 | 185.28 | 42.15 | 1.69 | 71.40 | 2.23 | 0.29 | 0.69 |
| 97.02 | 177.79 | 40.38 | 1.78 | 71.90 | 2.26 | 0.30 | 0.69 |
| 97.06 | 176.40 | 40.04 | 1.83 | 73.47 | 2.27 | 0.34 | 0.69 |
| 97.12 | 175.60 | 39.84 | 1.91 | 76.16 | 2.30 | 0.42 | 0.70 |
| 97.16 | 176.98 | 40.15 | 1.98 | 79.48 | 2.31 | 0.56 | 0.71 |
| 97.21 | 173.67 | 39.35 | 2.13 | 83.99 | 2.35 | 0.72 | 0.72 |
| 97.27 | 170.50 | 38.59 | 2.31 | 89.17 | 2.39 | 0.73 | 0.73 |
| 97.33 | 168.21 | 38.04 | 2.46 | 93.67 | 2.42 | 0.74 | 0.74 |
| 97.40 | 165.98 | 37.49 | 2.57 | 96.33 | 2.44 | 0.74 | 0.74 |
| 97.45 | 163.92 | 37.00 | 2.64 | 97.51 | 2.45 | 0.74 | 0.74 |
| 97.50 | 161.39 | 36.39 | 2.76 | 100.38 | 2.47 | 0.75 | 0.75 |
| 97.58 | 155.82 | 35.06 | 2.99 | 104.78 | 2.50 | 0.76 | 0.76 |
| 97.65 | 146.95 | 32.97 | 3.34 | 110.26 | 2.55 | 0.77 | 0.77 |
| 97.69 | 134.43 | 30.04 | 3.79 | 113.95 | 2.60 | 0.77 | 0.77 |
| 97.74 | 121.75 | 27.07 | 4.27 | 115.68 | 2.66 | 0.78 | 0.78 |
| 97.81 | 110.51 | 24.44 | 4.76 | 116.42 | 2.71 | 0.78 | 0.78 |
| 97.88 | 103.09 | 22.69 | 5.14 | 116.63 | 2.74 | 0.78 | 0.78 |
| 97.93 | 108.66 | 23.98 | 4.67 | 111.98 | 2.70 | 0.77 | 0.77 |
| 98.03 | 138.72 | 30.95 | 3.15 | 97.35 | 2.52 | 0.74 | 0.74 |
| 98.15 | 182.62 | 41.12 | 2.03 | 83.50 | 2.33 | 0.71 | 0.71 |
| 98.21 | 228.43 | 51.75 | 1.51 | 78.05 | 2.15 | 0.50 | 0.70 |
| 98.32 | 264.20 | 60.00 | 1.34 | 80.19 | 2.03 | 0.59 | 0.71 |
| 98.42 | 301.85 | 68.69 | 1.25 | 85.96 | 1.92 | 0.72 | 0.72 |
| 98.47 | 349.59 | 79.73 | 1.00 | 79.73 | 1.79 | 0.57 | 0.71 |
| 98.57 | 388.76 | 88.75 | 1.00 | 88.75 | 1.69 | 0.73 | 0.73 |
| 98.70 | 411.84 | 94.00 | 1.00 | 94.00 | 1.61 | 0.74 | 0.74 |
| 98.78 | 404.01 | 92.13 | 1.00 | 92.13 | 1.62 | 0.73 | 0.73 |
| 98.85 | 372.43 | 84.79 | 1.00 | 84.79 | 1.67 | 0.72 | 0.72 |
| 98.86 | 337.78 | 76.77 | 1.00 | 76.77 | 1.74 | 0.45 | 0.70 |

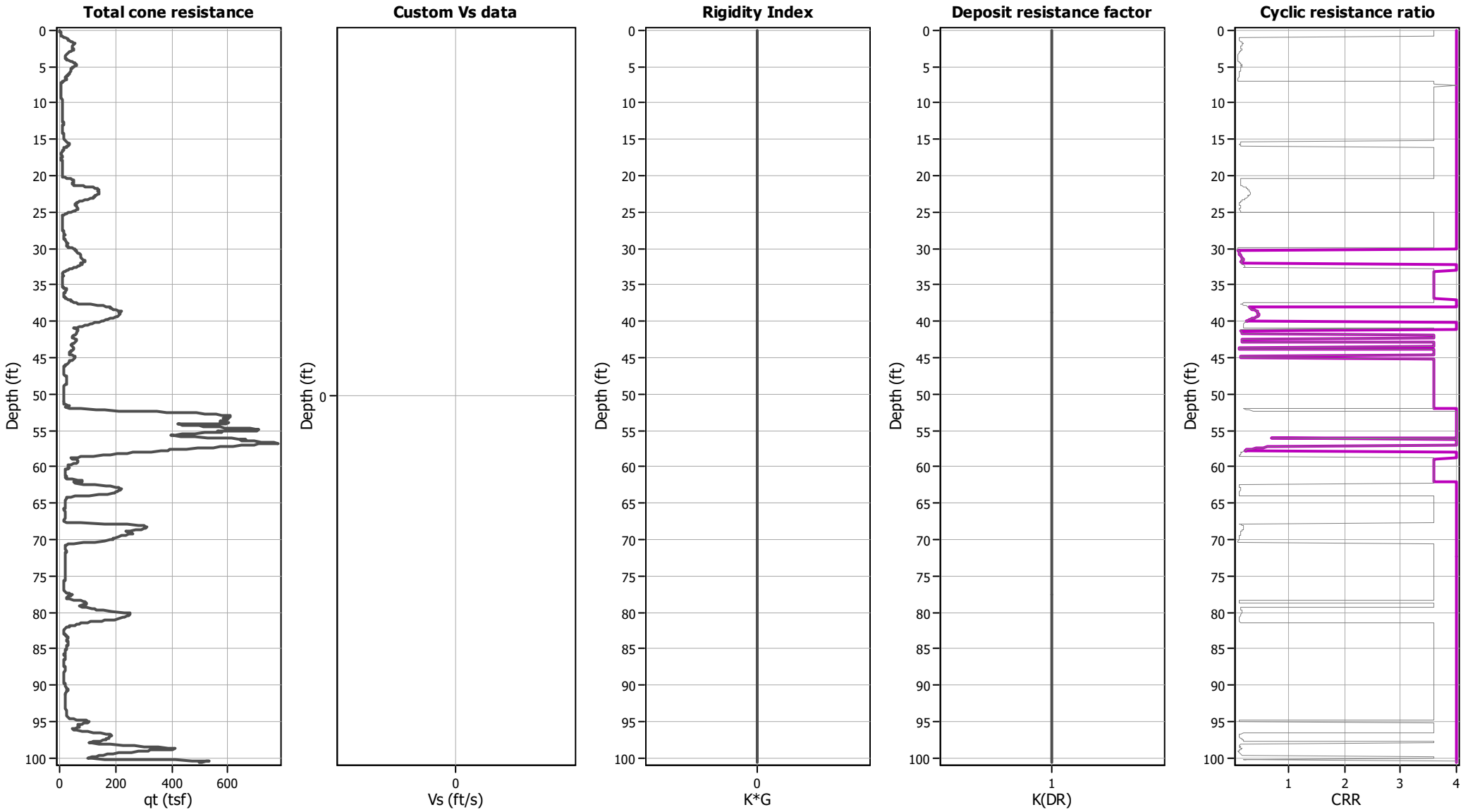
**:: Strength loss calculation (Robertson (2009) :: (continued)**

| Depth (ft) | $q_t$ (tsf) | $Q_{tn}$ | $K_c$ | $Q_{tn,cs}$ | $I_c$ | $S_{u(liq)}/\sigma'_v$ | $S_{u(peak)}/\sigma'_v$ |
|---|---|---|---|---|---|---|---|
| 98.92 | 322.73 | 73.26 | 1.00 | 73.26 | 1.77 | 0.33 | 0.69 |
| 98.98 | 318.48 | 72.24 | 1.00 | 72.24 | 1.78 | 0.31 | 0.69 |
| 99.03 | 309.41 | 70.12 | 1.00 | 70.12 | 1.81 | 0.26 | 0.68 |
| 99.11 | 281.64 | 63.67 | 1.00 | 63.67 | 1.90 | 0.15 | 0.67 |
| 99.18 | 255.32 | 57.57 | 1.30 | 74.69 | 1.99 | 0.38 | 0.69 |
| 99.23 | 231.33 | 52.01 | 1.41 | 73.25 | 2.09 | 0.33 | 0.69 |
| 99.32 | 209.84 | 47.02 | 1.62 | 76.01 | 2.20 | 0.42 | 0.70 |
| 99.37 | 189.39 | 42.29 | 1.96 | 83.05 | 2.31 | 0.71 | 0.71 |
| 99.45 | 170.57 | 37.93 | 2.37 | 90.04 | 2.40 | 0.73 | 0.73 |
| 99.56 | 157.24 | 34.83 | 2.76 | 96.01 | 2.47 | 0.74 | 0.74 |
| 99.64 | 147.39 | 32.55 | 3.13 | 101.90 | 2.52 | 0.75 | 0.75 |
| 99.71 | 140.04 | 30.84 | 3.53 | 108.77 | 2.57 | 0.76 | 0.76 |
| 99.75 | 128.26 | 28.12 | 4.04 | 113.72 | 2.63 | 0.77 | 0.77 |
| 99.90 | 116.32 | 25.35 | 4.67 | 118.27 | 2.70 | 0.78 | 0.78 |
| 99.95 | 101.78 | 22.01 | 5.75 | 126.55 | 2.79 | 0.79 | 0.79 |
| 100.04 | 116.32 | 25.32 | 5.03 | 127.45 | 2.73 | 0.79 | 0.79 |
| 100.14 | 159.30 | 35.14 | 3.33 | 116.89 | 2.55 | 0.78 | 0.78 |
| 100.14 | 204.99 | 45.59 | 2.33 | 106.43 | 2.39 | 0.76 | 0.76 |
| 100.15 | 235.79 | 52.64 | 2.00 | 105.52 | 2.32 | 0.76 | 0.76 |
| 100.19 | 258.80 | 57.89 | 1.93 | 111.71 | 2.30 | 0.77 | 0.77 |
| 100.21 | 298.07 | 66.86 | 1.78 | 119.29 | 2.26 | 0.78 | 0.78 |
| 100.24 | 351.88 | 79.16 | 1.37 | 108.37 | 2.06 | 0.76 | 0.76 |
| 100.28 | 410.56 | 92.54 | 1.15 | 106.62 | 1.80 | 0.76 | 0.76 |
| 100.31 | 470.98 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 100.33 | 508.57 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 100.38 | 524.63 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 100.39 | 526.55 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 100.43 | 531.78 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 100.48 | 522.24 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 100.53 | 509.38 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 100.57 | 496.12 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |
| 100.60 | 497.27 | -1.00 | 1.00 | -1.00 | -1.00 | 0.00 | 0.00 |

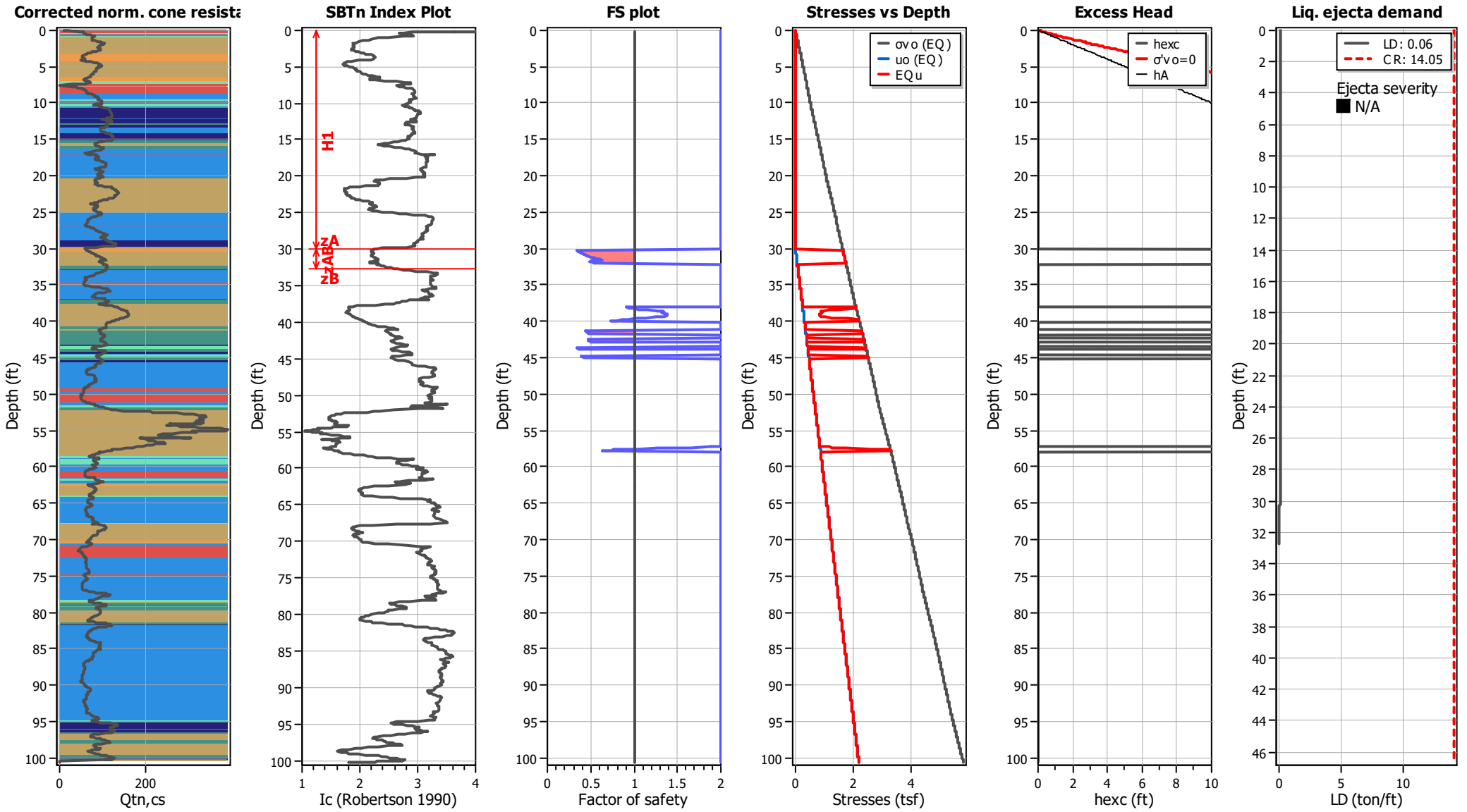
**Abbreviations**

| | |
|---|---|
| $q_t$: | Total cone resistance |
| $K_c$: | Cone resistance correction factor due to fines |
| $Q_{tn,cs}$: | Adjusted and corrected cone resistance due to fines |
| $I_c$: | Soil behavior type index |
| $S_{u(liq)}/\sigma'_v$: | Calculated liquefied undrained strength ratio |
| $S_{u(peak)}/\sigma'_v$: | Calculated peak undrained strength ratio |

## Aging Calculation Estimation

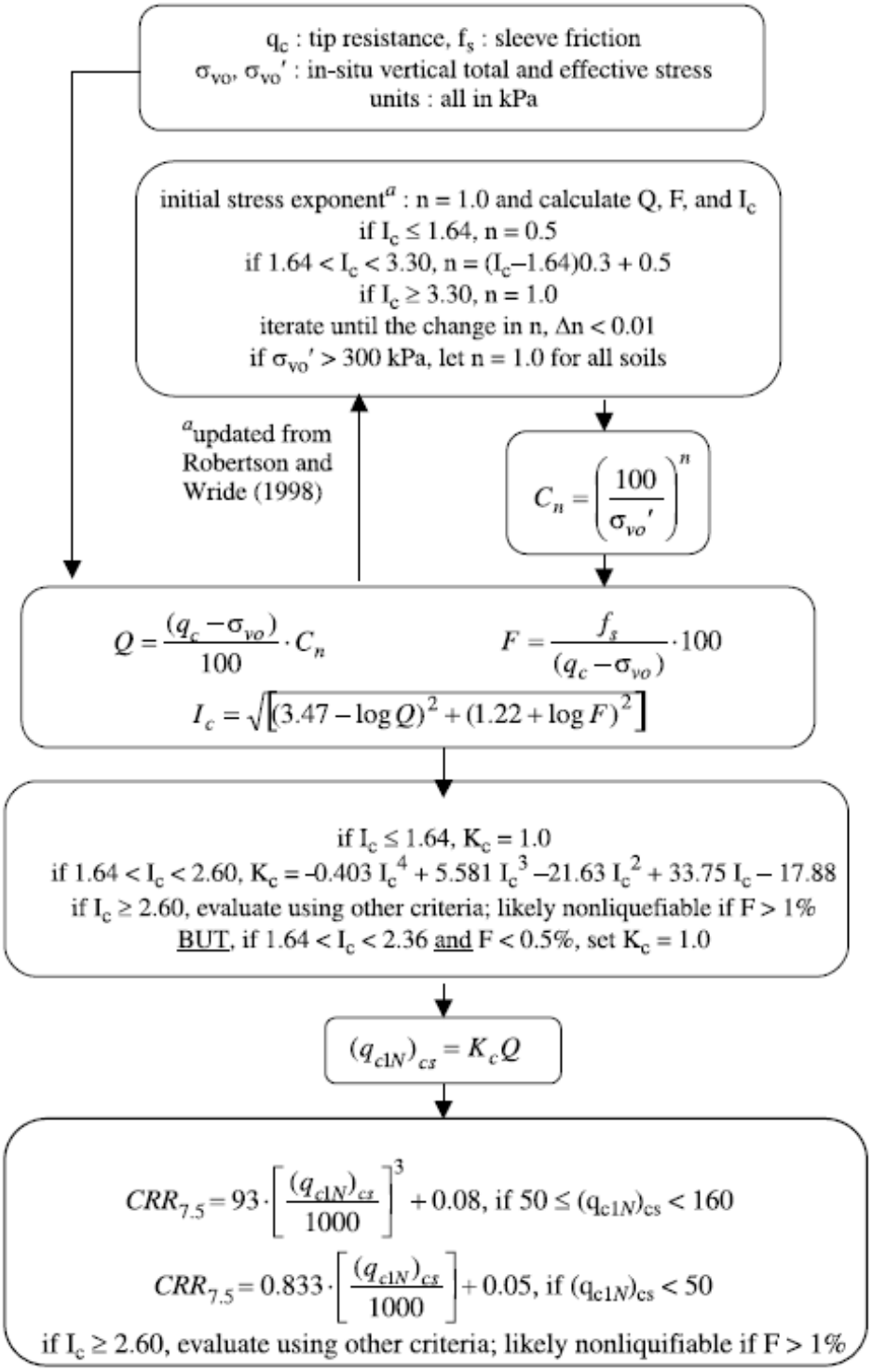


## Ejecta Severity Estimation



## Procedure for the evaluation of soil liquefaction resistance, NCEER (1998)

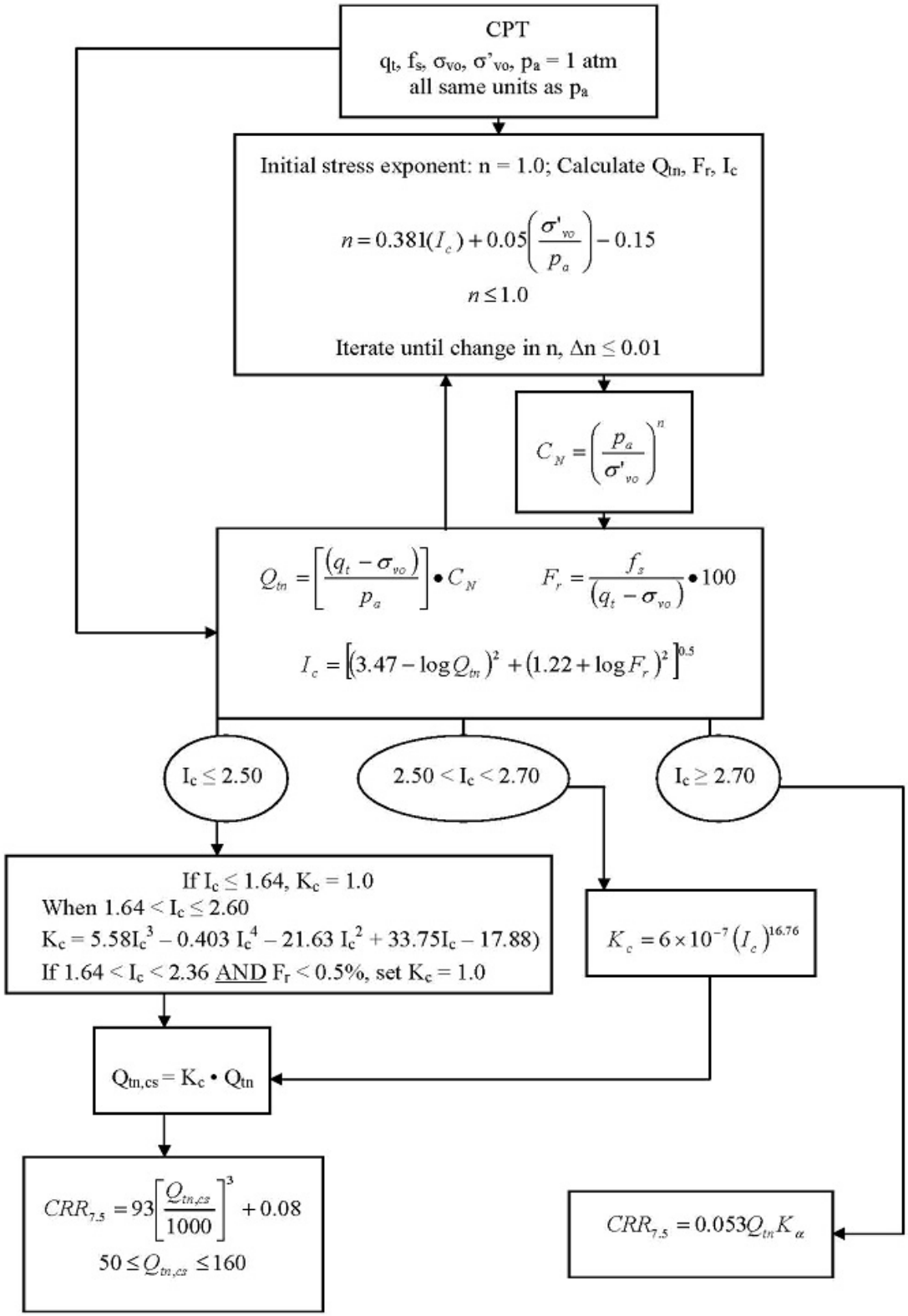
Calculation of soil resistance against liquefaction is performed according to the Robertson & Wride (1998) procedure. The procedure used in the software, slightly differs from the one originally published in NCEER-97-0022 (Proceedings of the NCEER Workshop on Evaluation of Liquefaction Resistance of Soils). The revised procedure is presented below in the form of a flowchart[1]:




[1] "Estimating liquefaction-induced ground settlements from CPT for level ground", G. Zhang, P.K. Robertson, and R.W.I. Brachman

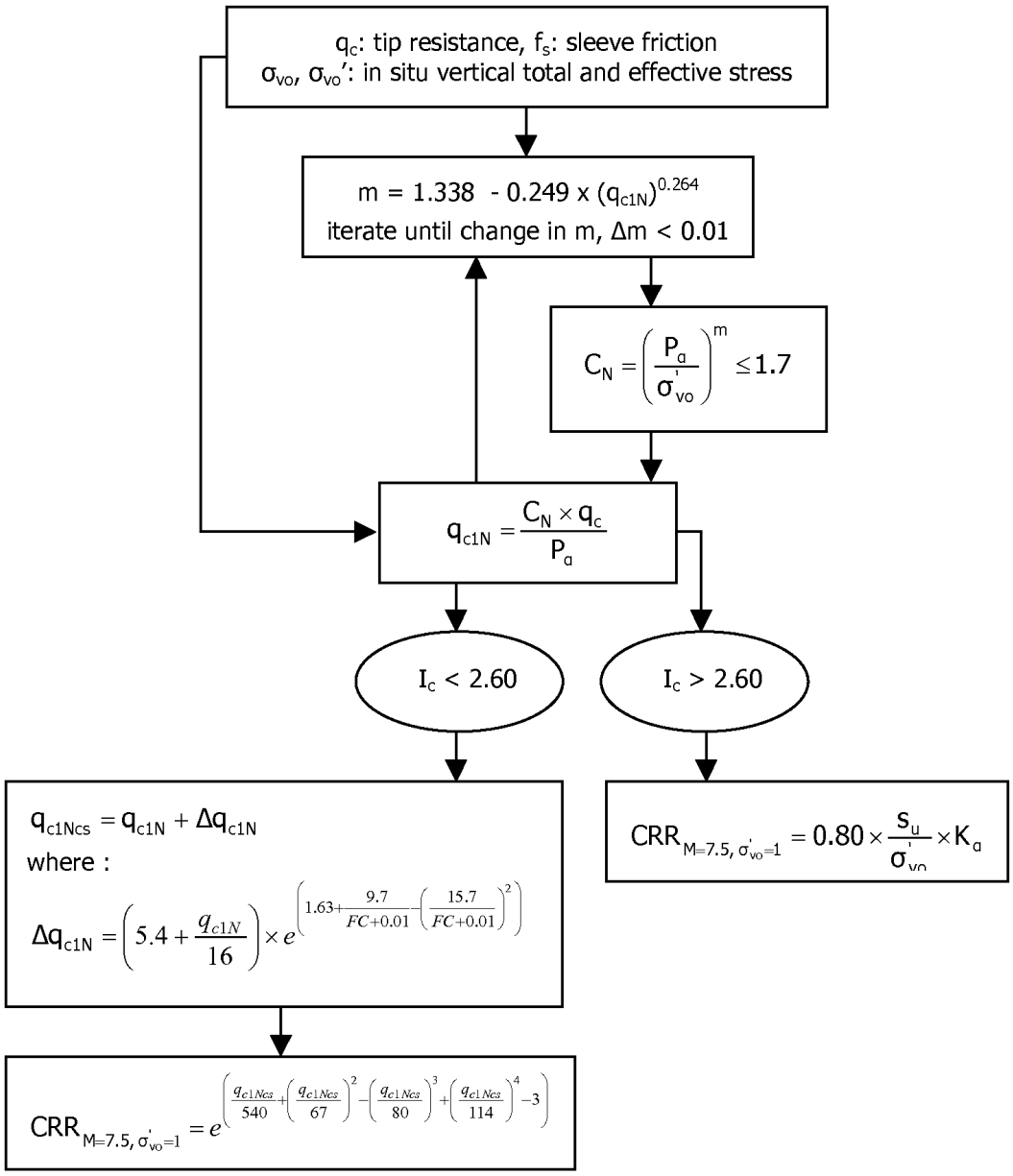
## Procedure for the evaluation of soil liquefaction resistance (all soils), Robertson (2010)

Calculation of soil resistance against liquefaction is performed according to the Robertson & Wride (1998) procedure. This procedure used in the software, slightly differs from the one originally published in NCEER-97-0022 (Proceedings of the NCEER Workshop on Evaluation of Liquefaction Resistance of Soils). The revised procedure is presented below in the form of a flowchart[1]:

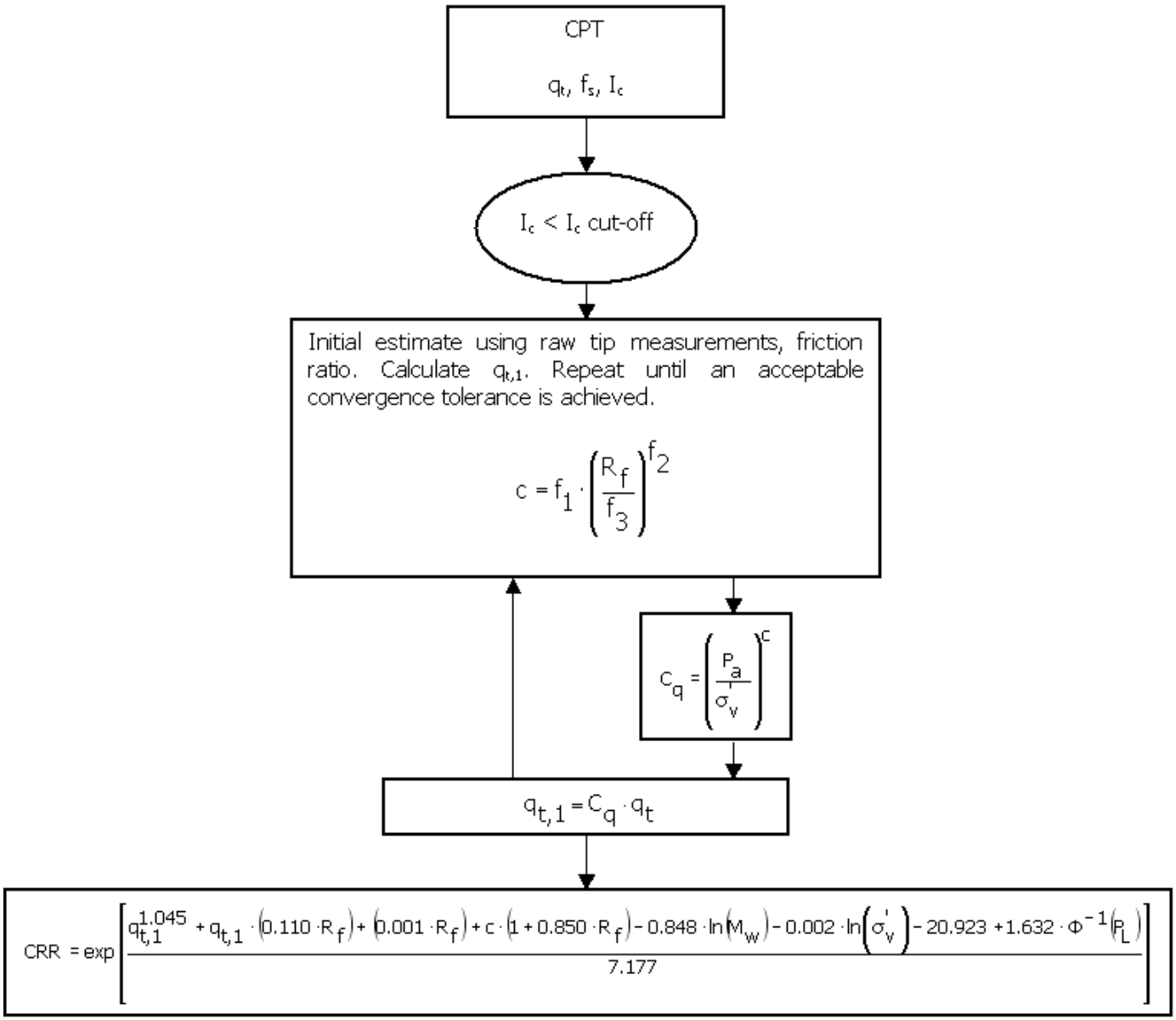



[1] P.K. Robertson, 2009. "Performance based earthquake design using the CPT", Keynote Lecture, International Conference on Performance-based Design in Earthquake Geotechnical Engineering – from case history to practice, IS-Tokyo, June 2009

**Procedure for the evaluation of soil liquefaction resistance, Idriss & Boulanger (2008)**



**Procedure for the evaluation of soil liquefaction resistance (sandy soils), Moss et al. (2006)**



**Procedure for the evaluation of soil liquefaction resistance, Boulanger & Idriss(2014)**

$$FS_{liq} = \frac{CRR_{M=7.5,\sigma'_v=1atm}}{CSR_{M=7.5,\sigma'_v=1atm}}$$

$$CSR_{M=7.5,\sigma'_v=1atm} = 0.65 \frac{\sigma_v}{\sigma'_v} \frac{a_{max}}{g} r_d \frac{1}{MSF} \frac{1}{K_\sigma}$$

$$r_d = \exp\left[\alpha(z) + \beta(z) \cdot M\right]$$

$$\alpha(z) = -1.012 - 1.126 \sin\left(\frac{z}{11.73} + 5.133\right)$$

$$\beta(z) = 0.106 + 0.118 \sin\left(\frac{z}{11.28} + 5.142\right)$$

$$K_\sigma = 1 - C_\sigma \ln\left(\frac{\sigma'_v}{P_a}\right) \le 1.1$$

$$C_\sigma = \frac{1}{37.3 - 8.27\left(q_{c1Ncs}\right)^{0.264}} \le 0.3$$

$$MSF = 1 + \left(MSF_{max} - 1\right)\left(8.64 \exp\left(\frac{-M}{4}\right) - 1.325\right)$$

$$MSF_{max} = 1.09 + \left(\frac{q_{C1Ncs}}{180}\right)^3 \le 2.2$$

$\sigma'_v$ *and* $\sigma_v$ *at start of earthquake shaking*

$$CRR_{M=7.5,\sigma'_v=1atm} = \exp\left(\frac{q_{c1Ncs}}{113} + \left(\frac{q_{c1Ncs}}{1000}\right)^2 - \left(\frac{q_{c1Ncs}}{140}\right)^3 + \left(\frac{q_{c1Ncs}}{137}\right)^4 - 2.80\right)$$

$$q_{c1Ncs} = q_{c1N} + \Delta q_{c1N}$$

$$\Delta q_{c1N} = \left(11.9 + \frac{q_{c1N}}{14.6}\right) \exp\left(1.63 - \frac{9.7}{FC+2} - \left(\frac{15.7}{FC+2}\right)^2\right)$$

$$q_{c1N} = C_{Ne} \frac{q_c}{P_a}$$

$$C_{Ne} = \left(\frac{P_a}{\sigma'_v}\right)^m \le 1.7$$

$$m = 1.338 - 0.249\left(q_{c1Ncs}\right)^{0.264} \quad with \quad 0.264 \le m \le 0.782$$

$$FC = 80\left(I_C + C_{FC}\right) - 137 \quad with \quad 0\% \le FC \le 100\%$$

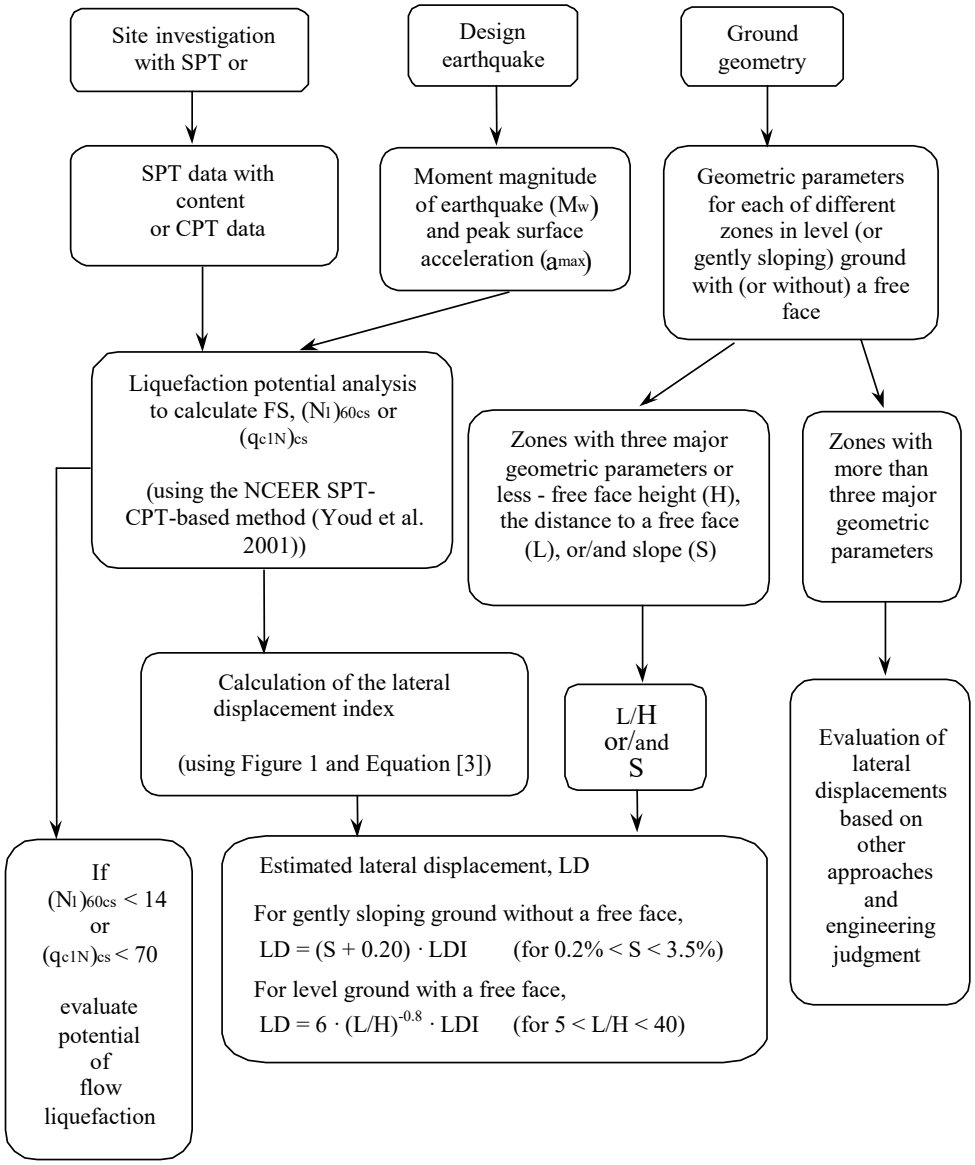
$$I_c = \left[\left(3.47 - \log\left(Q\right)\right)^2 + \left(1.22 + \log\left(F\right)\right)^2\right]^{0.5}$$

$$Q = \left(\frac{q_c - \sigma_{vc}}{P_a}\right)\left(\frac{P_a}{\sigma'_{vc}}\right)^n \; with \; 0.5 \le n \le 1.0 \; per \; Robertson \; \& \; Wride \; (1998)$$

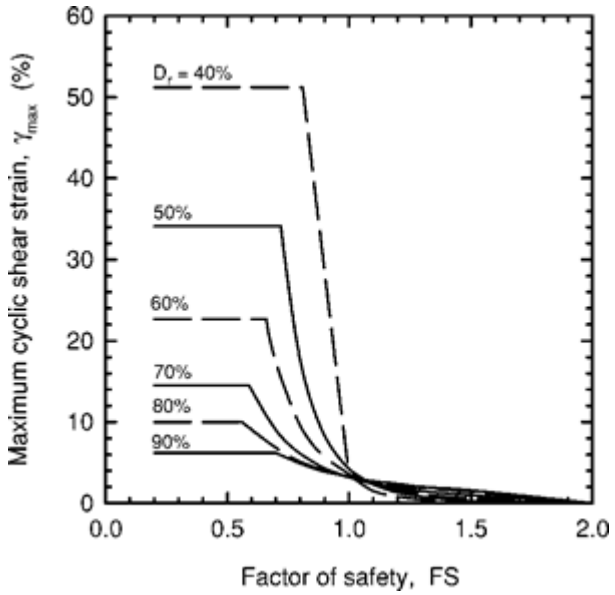
$$F = \left(\frac{f_s}{q_c - \sigma_{vc}}\right) \cdot 100\%$$

$\sigma'_v$ *at time of CPT sounding*

## Procedure for the evaluation of liquefaction-induced lateral spreading displacements




[1] Flow chart illustrating major steps in estimating liquefaction-induced lateral spreading displacements using the proposed approach



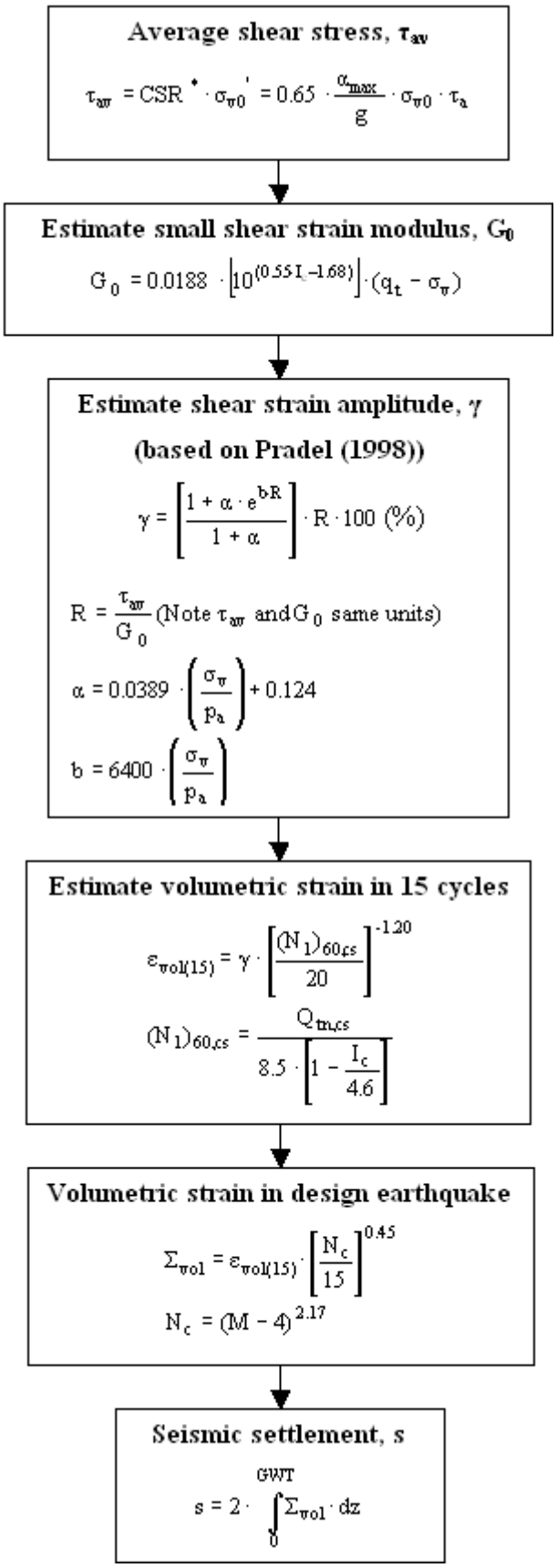

**[1] Figure 1**

$$LDI = \int_0^{z_{max}} \gamma_{max} dz$$

**[1] Equation [3]**

[1] "Estimating liquefaction-induced ground settlements from CPT for level ground", G. Zhang, P.K. Robertson, and R.W.I. Brachman

**Procedure for the estimation of seismic induced settlements in dry sands**




Robertson, P.K. and Lisheng, S., 2010, "Estimation of seismic compression in dry soils using the CPT" FIFTH INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN GEOTECHNICAL EARTHQUAKE ENGINEERING AND SOIL DYNAMICS, Symposium in honor of professor I. M. Idriss, San Diego, CA

## Liquefaction Potential Index (LPI) calculation procedure

Calculation of the Liquefaction Potential Index (LPI) is used to interpret the liquefaction assessment calculations in terms of severity over depth. The calculation procedure is based on the methology developed by Iwasaki (1982) and is adopted by AFPS.

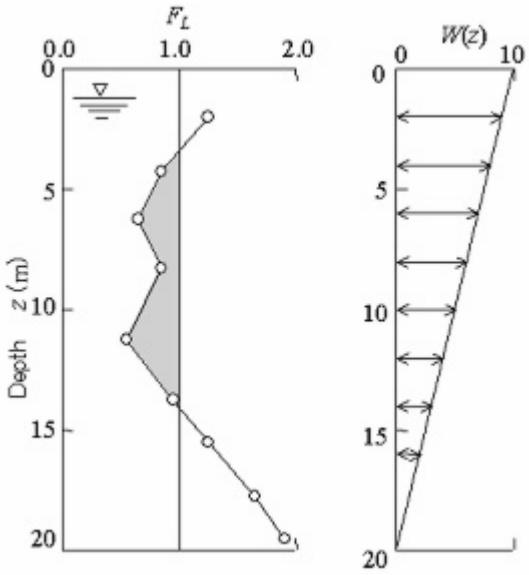
To estimate the severity of liquefaction extent at a given site, LPI is calculated based on the following equation:

$$\mathbf{LPI} = \int_0^{20} (10 - 0{,}5z) \times F_L \times dz$$

where:
$F_L$ = 1 - F.S. when F.S. less than 1
$F_L$ = 0 when F.S. greater than 1
z depth of measurment in meters

Values of LPI range between zero (0) when no test point is characterized as liquefiable and 100 when all points are characterized as susceptible to liquefaction. Iwasaki proposed four (4) discrete categories based on the numeric value of LPI:

- LPI = 0 : Liquefaction risk is very low
- 0 < LPI <= 5 : Liquefaction risk is low
- 5 < LPI <= 15 : Liquefaction risk is high
- LPI > 15 : Liquefaction risk is very high




**Graphical presentation of the LPI calculation procedure**

## Shear-Induced Building Settlement (Ds) calculation procedure

The shear-induced building settlement (Ds) due to liquefaction below the building can be estimated using the relationship developed by Bray and Macedo (2017):

$$Ln(Ds) = c1 + c2 * LBS + 0.58 * Ln\left(Tanh\left(\frac{HL}{6}\right)\right) + 4.59 * Ln(Q) - 0.42 * Ln(Q)^2 - 0.02 * B + 0.84 * Ln(CAVdp) + 0.41 * Ln(Sa1) + \varepsilon$$

where Ds is in the units of mm, c1= -8.35 and c2= 0.072 for LBS ≤ 16, and c1= -7.48 and c2= 0.014 otherwise. Q is the building contact pressure in units of kPa, HL is the cumulative thickness of the liquefiable layers in the units of m, B is the building width in the units of m, CAVdp is a standardized version of the cumulative absolute velocity in the units of g-s, Sa1 is 5%-damped pseudo-acceleration response spectral value at a period of 1 s in the units of g, and ε is a normal random variable with zero mean and 0.50 standard deviation in Ln units. The liquefaction-induced building settlement index (LBS) is:

$$LBS = \sum W * \frac{\varepsilon_{shear}}{z} dz$$

where z (m) is the depth measured from the ground surface > 0, W is a foundation-weighting factor wherein W = 0.0 for z less than Df, which is the embedment depth of the foundation, and W = 1.0 otherwise. The shear strain parameter (ε_shear) is the liquefaction-induced free-field shear strain (in %) estimated using Zhang et al. (2004). It is calculated based on the estimated Dr of the liquefied soil layer and the calculated safety factor against liquefaction triggering (FSL).

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