

THE RANCH PLAN PLANNED COMMUNITY  
PLANNING AREAS 3 AND 4 RUNOFF MANAGEMENT PLAN

**Michael Baker**  
INTERNATIONAL

**TECHNICAL APPENDIX C.5**

**SOHM Results**

**SOHM**

**PROJECT REPORT**

## *General Model Information*

Project Name: RMV PA3  
Site Name: RMV PA3  
Site Address:  
City:  
Report Date: 7/22/2019  
Gage: Trabuco Canyon  
Data Start: 10/01/1958  
Data End: 09/30/2005  
Timestep: 15 Minute  
Precip Scale: 1.000  
Version Date: 2019/06/06

## *POC Thresholds*

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Low Flow Threshold for POC1:	10 Percent of the 2 Year
High Flow Threshold for POC1:	10 Year

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Low Flow Threshold for POC2:	10 Percent of the 2 Year
High Flow Threshold for POC2:	10 Year

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# Landuse Basin Data

## Predeveloped Land Use

A

Bypass: No

GroundWater: No

Pervious Land Use	acre
A,Open Brush,VSteep	0.3
B,Open Brush,Flat	6.7
B,Open Brush,Mod	12.2
B,Open Brush,Steep	11.1
B,Open Brush,VSteep	25.5
C,Open Brush,Flat	3.7
C,Open Brush,Mod	11.3
C,Open Brush,Steep	21.6
C,Open Brush,VSteep	208.8
D,Open Brush,Flat	2.9
D,Open Brush,Mod	7.8
D,Open Brush,Steep	12.8
D,Open Brush,VSteep	127.1
Pervious Total	451.8
Impervious Land Use	acre
Impervious Total	0
Basin Total	451.8

Element Flows To:  
Surface                      Interflow                      Groundwater

3A-8

Bypass: No

GroundWater: No

Pervious Land Use	acre
B,Open Brush,Mod	3.1
B,Open Brush,VSteep	1.5
C,Open Brush,Mod	1.5
C,Open Brush,VSteep	15.5
D,Open Brush,VSteep	2.1
B,Open Brush,Steep	1.2
C,Open Brush,Flat	0.7
B,Open Brush,Flat	2.3
C,Open Brush,Steep	2.3

Pervious Total 30.2

Impervious Land Use acre

Impervious Total 0

Basin Total 30.2

Element Flows To:

Surface	Interflow	Groundwater
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### 3A-12

Bypass: No

GroundWater: No

Pervious Land Use acre

B,Open Brush,Mod 1.5

B,Open Brush,Steep 0.7

B,Open Brush,VSteep 0.7

C,Open Brush,Mod 0.2

C,Open Brush,Steep 0.2

C,Open Brush,VSteep 1.2

D,Open Brush,VSteep 0.2

B,Open Brush,Flat 0.6

C,Open Brush,Flat 0.1

D,Open Brush,Steep 0.1

Pervious Total 5.5

Impervious Land Use acre

Impervious Total 0

Basin Total 5.5

Element Flows To:

Surface

Interflow

Groundwater

## Mitigated Land Use

### A-4, A-5

Bypass: No

GroundWater: No

Pervious Land Use	acre
B,Open Brush,Steep	0.1
B,Open Brush,VSteep	0.4
C,Open Brush,Flat	0.3
C,Open Brush,Mod	0.4
C,Open Brush,Steep	0.3
C,Open Brush,VSteep	1
D,Open Brush,Steep	0.1
D,Open Brush,VSteep	0.1
B,Urban,Flat(0-5%)	0.4
B,Urban,Steep(10-15)	0.1
B,Urban,VSteep(>15%)	0.1
C,Urban,Flat(0-5%)	2.3
C,Urban,Mod(5-10%)	0.3
C,Urban,Steep(10-15)	0.2
C,Urban,VSteep(>15%)	0.1
D,Urban,Flat(0-5%)	1.1

Pervious Total 7.3

Impervious Land Use	acre
Impervious,Flat(0-5)	21.9
Impervious,Mod(5-10)	1.3
Imp,Steep (10-20%)	1.8
Imp,Very Steep(>20%)	0.3

Impervious Total 25.3

Basin Total 32.6

### Element Flows To:

Surface	Interflow	Groundwater
Flow Splitter 1	Flow Splitter 1	

## A North

Bypass: No

GroundWater: No

Pervious Land Use	acre
B,Open Brush,Steep	0.3
C,Open Brush,Flat	1.6
C,Open Brush,Mod	2.4
C,Open Brush,Steep	2.1
C,Open Brush,VSteep	28.6
D,Open Brush,Flat	0.3
D,Open Brush,Mod	0.1
D,Open Brush,Steep	0.2
D,Open Brush,VSteep	2.2
B,Urban,Flat(0-5%)	3.6
B,Urban,Mod(5-10%)	0.3
B,Urban,Steep(10-15)	0.3
B,Urban,VSteep(>15%)	0.7
C,Urban,Flat(0-5%)	10.3
C,Urban,Mod(5-10%)	1.8
C,Urban,Steep(10-15)	1.3
C,Urban,VSteep(>15%)	1.7
D,Urban,Flat(0-5%)	3.7
D,Urban,Mod(5-10%)	0.2
D,Urban,Steep(10-15)	0.2
D,Urban,VSteep(>15%)	0.4
B,Open Brush,Flat	0.4
B,Open Brush,Mod	0.2
B,Open Brush,VSteep	2.8

Pervious Total 65.7

Impervious Land Use	acre
Impervious,Flat(0-5)	99.3
Impervious,Mod(5-10)	7.8
Imp,Steep (10-20%)	15
Imp,Very Steep(>20%)	6.3

Impervious Total 128.4

Basin Total 194.1

Element Flows To:

Surface

Interflow

Groundwater



## A South

Bypass: No

GroundWater: No

Pervious Land Use	acre
B,Open Brush,Flat	0.1
B,Open Brush,Mod	0.1
B,Open Brush,Steep	0.1
B,Open Brush,VSteep	1.5
C,Open Brush,Flat	1.9
C,Open Brush,Mod	1.2
C,Open Brush,Steep	1.6
C,Open Brush,VSteep	18.9
D,Open Brush,Flat	1
D,Open Brush,Mod	1
D,Open Brush,Steep	1.1
D,Open Brush,VSteep	20.1
B,Urban,Flat(0-5%)	2.8
B,Urban,Mod(5-10%)	0.3
B,Urban,Steep(10-15)	0.1
B,Urban,VSteep(>15%)	0.3
C,Urban,Flat(0-5%)	18.4
C,Urban,Mod(5-10%)	1.5
C,Urban,Steep(10-15)	0.5
C,Urban,VSteep(>15%)	1.2
D,Urban,Flat(0-5%)	20.3
D,Urban,Mod(5-10%)	2
D,Urban,Steep(10-15)	1.2
D,Urban,VSteep(>15%)	1.7

Pervious Total 98.9

Impervious Land Use	acre
Impervious,Flat(0-5)	98.2
Impervious,Mod(5-10)	10.1
Imp,Steep (10-20%)	11
Imp,Very Steep(>20%)	6.9

Impervious Total 126.2

Basin Total 225.1

Element Flows To:

Surface	Interflow	Groundwater
Flow Splitter 4	Flow Splitter 4	

B-A

Bypass: No

GroundWater: No

Pervious Land Use	acre
B,Open Brush,VSteep	2
C,Open Brush,Flat	0.2
C,Open Brush,Mod	0.3
C,Open Brush,Steep	0.4
C,Open Brush,VSteep	6.5
D,Open Brush,Steep	0.1
D,Open Brush,VSteep	1.5
B,Urban,Flat(0-5%)	0.7
B,Urban,VSteep(>15%)	0.1
C,Urban,Flat(0-5%)	2.9
C,Urban,Mod(5-10%)	0.4
C,Urban,Steep(10-15)	0.2
C,Urban,VSteep(>15%)	0.3
B,Open Brush,Flat	0.2
B,Open Brush,Mod	0.3
D,Open Brush,Mod	0.1
B,Urban,Mod(5-10%)	0.1
D,Urban,Mod(5-10%)	0.1

Pervious Total 16.4

Impervious Land Use	acre
Impervious,Flat(0-5)	7.6
Impervious,Mod(5-10)	2
Imp,Steep (10-20%)	2.6
Imp,Very Steep(>20%)	1.6

Impervious Total 13.8

Basin Total 30.2

Element Flows To:

Surface	Interflow	Groundwater
Flow Splitter 5	Flow Splitter 5	

## Road

Bypass: No

GroundWater: No

Pervious Land Use	acre
B,Open Brush,Steep	0.4
B,Open Brush,VSteep	0.8
C,Open Brush,Mod	0.2
C,Open Brush,Steep	0.2
C,Open Brush,VSteep	0.3
B,Urban,VSteep(>15%)	0.1
B,Open Brush,Flat	0.1
B,Open Brush,Mod	0.2
D,Open Brush,Mod	0.1
C,Urban,VSteep(>15%)	0.1
B,Urban,Mod(5-10%)	0.1

Pervious Total 2.6

Impervious Land Use	acre
Impervious,Flat(0-5)	0.1
Impervious,Mod(5-10)	0.3
Imp,Steep (10-20%)	0.8
Imp,Very Steep(>20%)	1.7

Impervious Total 2.9

Basin Total 5.5

Element Flows To:

Surface	Interflow	Groundwater
Flow Splitter 6	Flow Splitter 6	

*Routing Elements*  
*Predeveloped Routing*

## Mitigated Routing

### 3A-1

Bottom Length:	475.00 ft.
Bottom Width:	69.00 ft.
Material thickness of first layer:	1.5
Material type for first layer:	Amended 2.5 in/hr
Material thickness of second layer:	1.5
Material type for second layer:	Amended 2.5 in/hr
Material thickness of third layer:	1.5
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.1
Infiltration safety factor:	1
Total Volume Infiltrated (ac-ft.):	336.491
Total Volume Through Riser (ac-ft.):	86.173
Total Volume Through Facility (ac-ft.):	1372.226
Percent Infiltrated:	24.52
Total Precip Applied to Facility:	60.671
Total Evap From Facility:	44.687
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	6
Offset (in.):	3
Flow Through Underdrain (ac-ft.):	949.562
Total Outflow (ac-ft.):	1372.226
Percent Through Underdrain:	69.2
Discharge Structure	
Riser Height:	4 ft.
Riser Diameter:	24 in.
Orifice 1 Diameter:	3 in.      Elevation:1.5 ft.
Element Flows To:	
Outlet 1	Outlet 2

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
410.00	0.7524	0.0000	0.0000	0.0000
410.10	0.7524	0.0306	0.0000	0.0000
410.21	0.7524	0.0613	0.0000	0.0000
410.31	0.7524	0.0919	0.0000	0.0000
410.42	0.7524	0.1225	0.0000	0.0000
410.52	0.7524	0.1532	0.0000	0.0000
410.63	0.7524	0.1838	0.0000	0.0000
410.73	0.7524	0.2144	0.0515	0.0515
410.84	0.7524	0.2451	0.0515	0.0515
410.94	0.7524	0.2757	0.0687	0.0687
411.04	0.7524	0.3063	0.0759	0.0759
411.15	0.7524	0.3370	0.0759	0.0759
411.25	0.7524	0.3676	0.0759	0.0759
411.36	0.7524	0.3982	0.0759	0.0759
411.46	0.7524	0.4289	0.0759	0.0759
411.57	0.7524	0.4595	0.0759	0.0759
411.67	0.7524	0.4901	0.0759	0.0759
411.77	0.7524	0.5208	0.0759	0.0759
411.88	0.7524	0.5514	0.0759	0.0759

411.98	0.7524	0.5820	0.0759	0.0759
412.09	0.7524	0.6127	0.0759	0.0759
412.19	0.7524	0.6433	0.0759	0.0759
412.30	0.7524	0.6739	0.0759	0.0759
412.40	0.7524	0.7046	0.0759	0.0759
412.51	0.7524	0.7352	0.0759	0.0759
412.61	0.7524	0.7658	0.0759	0.0759
412.71	0.7524	0.7965	0.0759	0.0759
412.82	0.7524	0.8271	0.0759	0.0759
412.92	0.7524	0.8577	0.0759	0.0759
413.03	0.7524	0.8903	0.0759	0.0759
413.13	0.7524	0.9229	0.0759	0.0759
413.24	0.7524	0.9555	0.0759	0.0759
413.34	0.7524	0.9881	0.0759	0.0759
413.45	0.7524	1.0207	0.0759	0.0759
413.55	0.7524	1.0533	0.0759	0.0759
413.65	0.7524	1.0859	0.0759	0.0759
413.76	0.7524	1.1185	0.0759	0.0759
413.86	0.7524	1.1511	0.0759	0.0759
413.97	0.7524	1.1837	0.0759	0.0759
414.07	0.7524	1.2163	0.0759	0.0759
414.18	0.7524	1.2489	0.0759	0.0759
414.28	0.7524	1.2815	0.0759	0.0759
414.38	0.7524	1.3141	0.0759	0.0759
414.49	0.7524	1.3467	0.0759	0.0759
414.50	0.7524	1.3501	0.0759	0.0759

Landscape Swale Hydraulic Table

<b>Stage(feet)</b>	<b>Area(ac.)</b>	<b>Volume(ac-ft.)</b>	<b>Discharge(cfs)</b>	<b>To Amended(cfs)</b>	<b>Infil(cfs)</b>
4.5000	0.7524	1.3501	0.0000	1.1005	0.0000
4.6044	0.7602	1.4291	0.0000	1.1005	0.0000
4.7088	0.7681	1.5089	0.0000	1.1005	0.0000
4.8132	0.7760	1.5895	0.0000	1.1005	0.0000
4.9176	0.7838	1.6709	0.0000	1.1005	0.0000
5.0220	0.7917	1.7531	0.0000	1.1005	0.0000
5.1264	0.7997	1.8362	0.0000	1.1005	0.0000
5.2308	0.8076	1.9201	0.0000	1.1005	0.0000
5.3352	0.8156	2.0048	0.0000	1.1005	0.0000
5.4396	0.8235	2.0904	0.0000	1.1005	0.0000
5.5440	0.8315	2.1768	0.0000	1.1005	0.0000
5.6484	0.8395	2.2640	0.0000	1.1005	0.0000
5.7527	0.8476	2.3521	0.0000	1.1005	0.0000
5.8571	0.8556	2.4410	0.0000	1.1005	0.0000
5.9615	0.8637	2.5307	0.0000	1.1005	0.0000
6.0659	0.8718	2.6213	0.0604	1.1005	0.0000
6.1703	0.8799	2.7127	0.0907	1.1005	0.0000
6.2747	0.8880	2.8050	0.1732	1.1005	0.0000
6.3791	0.8961	2.8981	0.2144	1.1005	0.0000
6.4835	0.9043	2.9921	0.2776	1.1005	0.0000
6.5879	0.9125	3.0869	0.3091	1.1005	0.0000
6.6923	0.9207	3.1826	0.3587	1.1005	0.0000
6.7967	0.9289	3.2792	0.3834	1.1005	0.0000
6.9011	0.9371	3.3766	0.4247	1.1005	0.0000
7.0055	0.9453	3.4748	0.4454	1.1005	0.0000
7.1099	0.9536	3.5740	0.4814	1.1005	0.0000
7.2143	0.9619	3.6739	0.4993	1.1005	0.0000
7.3187	0.9702	3.7748	0.5317	1.1005	0.0000
7.4231	0.9785	3.8765	0.5478	1.1005	0.0000

7.5275	0.9868	3.9791	0.5774	1.1005	0.0000
7.6319	0.9952	4.0825	0.5922	1.1005	0.0000
7.7363	1.0036	4.1869	0.6197	1.1005	0.0000
7.8407	1.0120	4.2921	0.6335	1.1005	0.0000
7.9451	1.0204	4.3982	0.6593	1.1005	0.0000
8.0495	1.0288	4.5051	0.6722	1.1005	0.0000
8.1538	1.0372	4.6130	0.6965	1.1005	0.0000
8.2582	1.0457	4.7217	0.6820	1.1005	0.0000
8.3626	1.0542	4.8313	0.7105	1.1005	0.0000
8.4670	1.0627	4.9418	0.7574	1.1005	0.0000
8.5714	1.0712	5.0532	0.8111	1.1005	0.0000
8.6758	1.0797	5.1654	0.8662	1.1005	0.0000
8.7802	1.0883	5.2786	0.9204	1.1005	0.0000
8.8846	1.0968	5.3927	0.9731	1.1005	0.0000
8.9890	1.1054	5.5076	1.0246	1.1005	0.0000
9.0934	1.1140	5.6235	2.0140	1.1005	0.0000
9.1978	1.1227	5.7402	10.376	1.1005	0.0000
9.3022	1.1313	5.8579	11.552	1.1005	0.0000
9.4066	1.1400	5.9764	12.382	1.1005	0.0000
9.5000	1.1477	6.0833	13.125	1.1005	0.0000

## Surface 3A-1

Element Flows To:

Outlet 1

Outlet 2  
3A-1



3A-2

Bottom Length: 442.00 ft.  
 Bottom Width: 109.00 ft.  
 Depth: 5 ft.  
 Volume at riser head: 2.3660 acre-feet.  
 Side slope 1: 3 To 1  
 Side slope 2: 3 To 1  
 Side slope 3: 3 To 1  
 Side slope 4: 3 To 1  
 Discharge Structure  
 Riser Height: 2 ft.  
 Riser Diameter: 36 in.  
 Notch Type: Rectangular  
 Notch Width: 3.000 ft.  
 Notch Height: 2.000 ft.  
 Element Flows To:  
 Outlet 1                      Outlet 2  
 Flow Splitter 3

Pond Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
405.00	1.106	0.000	0.000	0.000
405.06	1.110	0.061	0.130	0.000
405.11	1.114	0.123	0.370	0.000
405.17	1.118	0.185	0.679	0.000
405.22	1.122	0.247	1.046	0.000
405.28	1.127	0.310	1.462	0.000
405.33	1.131	0.372	1.922	0.000
405.39	1.135	0.435	2.422	0.000
405.44	1.139	0.499	2.960	0.000
405.50	1.144	0.562	3.532	0.000
405.56	1.148	0.626	4.136	0.000
405.61	1.152	0.690	4.772	0.000
405.67	1.157	0.754	5.437	0.000
405.72	1.161	0.818	6.131	0.000
405.78	1.165	0.883	6.852	0.000
405.83	1.169	0.948	7.599	0.000
405.89	1.174	1.013	8.372	0.000
405.94	1.178	1.078	9.169	0.000
406.00	1.182	1.144	9.990	0.000
406.06	1.187	1.210	10.83	0.000
406.11	1.191	1.276	11.70	0.000
406.17	1.195	1.342	12.58	0.000
406.22	1.200	1.409	13.49	0.000
406.28	1.204	1.475	14.42	0.000
406.33	1.208	1.542	15.38	0.000
406.39	1.213	1.610	16.35	0.000
406.44	1.217	1.677	17.34	0.000
406.50	1.221	1.745	18.35	0.000
406.56	1.226	1.813	19.38	0.000
406.61	1.230	1.881	20.42	0.000
406.67	1.234	1.950	21.49	0.000
406.72	1.239	2.018	22.57	0.000
406.78	1.243	2.087	23.68	0.000
406.83	1.247	2.156	24.79	0.000
406.89	1.252	2.226	25.93	0.000

406.94	1.256	2.296	27.08	0.000
407.00	1.261	2.366	28.25	0.000
407.06	1.265	2.436	28.67	0.000
407.11	1.269	2.506	29.43	0.000
407.17	1.274	2.577	30.41	0.000
407.22	1.278	2.648	31.58	0.000
407.28	1.283	2.719	32.89	0.000
407.33	1.287	2.790	34.33	0.000
407.39	1.292	2.862	35.88	0.000
407.44	1.296	2.934	37.51	0.000
407.50	1.300	3.006	39.22	0.000
407.56	1.305	3.078	40.97	0.000
407.61	1.309	3.151	42.76	0.000
407.67	1.314	3.224	44.56	0.000
407.72	1.318	3.297	46.35	0.000
407.78	1.323	3.371	48.11	0.000
407.83	1.327	3.444	49.82	0.000
407.89	1.332	3.518	51.47	0.000
407.94	1.336	3.592	53.03	0.000
408.00	1.341	3.667	54.49	0.000
408.06	1.345	3.741	55.85	0.000
408.11	1.350	3.816	57.09	0.000
408.17	1.354	3.891	58.20	0.000
408.22	1.359	3.967	59.19	0.000
408.28	1.363	4.042	60.05	0.000
408.33	1.368	4.118	60.80	0.000
408.39	1.372	4.194	61.46	0.000
408.44	1.377	4.271	62.05	0.000
408.50	1.381	4.347	62.60	0.000
408.56	1.386	4.424	63.61	0.000
408.61	1.390	4.501	64.23	0.000
408.67	1.395	4.579	64.85	0.000
408.72	1.400	4.656	65.45	0.000
408.78	1.404	4.734	66.05	0.000
408.83	1.409	4.812	66.63	0.000
408.89	1.413	4.891	67.21	0.000
408.94	1.418	4.969	67.78	0.000
409.00	1.422	5.048	68.34	0.000
409.06	1.427	5.128	68.89	0.000
409.11	1.432	5.207	69.44	0.000
409.17	1.436	5.287	69.98	0.000
409.22	1.441	5.367	70.51	0.000
409.28	1.445	5.447	71.03	0.000
409.33	1.450	5.527	71.55	0.000
409.39	1.455	5.608	72.06	0.000
409.44	1.459	5.689	72.57	0.000
409.50	1.464	5.770	73.07	0.000
409.56	1.468	5.852	73.57	0.000
409.61	1.473	5.933	74.06	0.000
409.67	1.478	6.015	74.54	0.000
409.72	1.482	6.098	75.02	0.000
409.78	1.487	6.180	75.50	0.000
409.83	1.492	6.263	75.97	0.000
409.89	1.496	6.346	76.43	0.000
409.94	1.501	6.429	76.89	0.000
410.00	1.506	6.513	77.35	0.000
410.06	1.510	6.597	77.80	0.000



### 3A-3

Bottom Length: 150.00 ft.  
 Bottom Width: 113.00 ft.  
 Depth: 7 ft.  
 Volume at riser head: 2.0176 acre-feet.  
 Infiltration On  
 Infiltration rate: 0.73  
 Infiltration safety factor: 1  
 Total Volume Infiltrated (ac-ft.): 1747  
 Total Volume Through Riser (ac-ft.): 2324.647  
 Total Volume Through Facility (ac-ft.): 4071.647  
 Percent Infiltrated: 42.91  
 Total Precip Applied to Facility: 37.679  
 Total Evap From Facility: 10.506  
 Side slope 1: 3 To 1  
 Side slope 2: 3 To 1  
 Side slope 3: 3 To 1  
 Side slope 4: 3 To 1  
 Discharge Structure  
 Riser Height: 4.25 ft.  
 Riser Diameter: 120 in.  
 Element Flows To:  
 Outlet 1                      Outlet 2

Pond Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
390.00	0.389	0.000	0.000	0.000
390.08	0.391	0.030	0.000	0.286
390.16	0.394	0.061	0.000	0.286
390.23	0.397	0.091	0.000	0.286
390.31	0.400	0.122	0.000	0.286
390.39	0.403	0.154	0.000	0.286
390.47	0.406	0.185	0.000	0.286
390.54	0.409	0.217	0.000	0.286
390.62	0.412	0.249	0.000	0.286
390.70	0.414	0.281	0.000	0.286
390.78	0.417	0.313	0.000	0.286
390.86	0.420	0.346	0.000	0.286
390.93	0.423	0.379	0.000	0.286
391.01	0.426	0.412	0.000	0.286
391.09	0.429	0.445	0.000	0.286
391.17	0.432	0.479	0.000	0.286
391.24	0.435	0.512	0.000	0.286
391.32	0.438	0.546	0.000	0.286
391.40	0.441	0.581	0.000	0.286
391.48	0.444	0.615	0.000	0.286
391.56	0.447	0.650	0.000	0.286
391.63	0.450	0.685	0.000	0.286
391.71	0.453	0.720	0.000	0.286
391.79	0.456	0.755	0.000	0.286
391.87	0.459	0.791	0.000	0.286
391.94	0.462	0.827	0.000	0.286
392.02	0.465	0.863	0.000	0.286
392.10	0.468	0.899	0.000	0.286
392.18	0.471	0.936	0.000	0.286

392.26	0.475	0.973	0.000	0.286
392.33	0.478	1.010	0.000	0.286
392.41	0.481	1.047	0.000	0.286
392.49	0.484	1.084	0.000	0.286
392.57	0.487	1.122	0.000	0.286
392.64	0.490	1.160	0.000	0.286
392.72	0.493	1.199	0.000	0.286
392.80	0.497	1.237	0.000	0.286
392.88	0.500	1.276	0.000	0.286
392.96	0.503	1.315	0.000	0.286
393.03	0.506	1.354	0.000	0.286
393.11	0.509	1.394	0.000	0.286
393.19	0.513	1.434	0.000	0.286
393.27	0.516	1.474	0.000	0.286
393.34	0.519	1.514	0.000	0.286
393.42	0.522	1.554	0.000	0.286
393.50	0.526	1.595	0.000	0.286
393.58	0.529	1.636	0.000	0.286
393.66	0.532	1.677	0.000	0.286
393.73	0.535	1.719	0.000	0.286
393.81	0.539	1.761	0.000	0.286
393.89	0.542	1.803	0.000	0.286
393.97	0.545	1.845	0.000	0.286
394.04	0.549	1.888	0.000	0.286
394.12	0.552	1.931	0.000	0.286
394.20	0.555	1.974	0.000	0.286
394.28	0.559	2.017	0.491	0.286
394.36	0.562	2.061	3.640	0.286
394.43	0.566	2.105	8.329	0.286
394.51	0.569	2.149	14.15	0.286
394.59	0.572	2.193	20.92	0.286
394.67	0.576	2.238	28.51	0.286
394.74	0.579	2.283	36.84	0.286
394.82	0.583	2.328	45.85	0.286
394.90	0.586	2.374	55.48	0.286
394.98	0.589	2.419	65.69	0.286
395.06	0.593	2.465	76.45	0.286
395.13	0.596	2.512	87.70	0.286
395.21	0.600	2.558	99.43	0.286
395.29	0.603	2.605	111.6	0.286
395.37	0.607	2.652	124.1	0.286
395.44	0.610	2.699	137.1	0.286
395.52	0.614	2.747	150.4	0.286
395.60	0.617	2.795	164.1	0.286
395.68	0.621	2.843	178.0	0.286
395.76	0.625	2.892	192.2	0.286
395.83	0.628	2.940	206.7	0.286
395.91	0.632	2.989	221.3	0.286
395.99	0.635	3.039	236.2	0.286
396.07	0.639	3.088	251.2	0.286
396.14	0.642	3.138	266.3	0.286
396.22	0.646	3.188	281.5	0.286
396.30	0.650	3.239	296.8	0.286
396.38	0.653	3.289	312.1	0.286
396.46	0.657	3.340	327.5	0.286
396.53	0.661	3.392	342.8	0.286
396.61	0.664	3.443	358.0	0.286
396.69	0.668	3.495	373.2	0.286

396.77	0.672	3.547	388.2	0.286
396.84	0.675	3.600	403.1	0.286
396.92	0.679	3.652	417.8	0.286
397.00	0.683	3.705	432.3	0.286
397.08	0.686	3.759	446.6	0.286

3A-4

Bottom Length: 550.00 ft.  
 Bottom Width: 185.00 ft.  
 Depth: 7 ft.  
 Volume at riser head: 10.9402 acre-feet.  
 Infiltration On  
 Infiltration rate: 0.73  
 Infiltration safety factor: 1  
 Total Volume Infiltrated (ac-ft.): 2826.655  
 Total Volume Through Riser (ac-ft.): 508.647  
 Total Volume Through Facility (ac-ft.): 3335.302  
 Percent Infiltrated: 84.75  
 Total Precip Applied to Facility: 139.241  
 Total Evap From Facility: 10.933  
 Side slope 1: 3 To 1  
 Side slope 2: 3 To 1  
 Side slope 3: 3 To 1  
 Side slope 4: 3 To 1  
 Discharge Structure  
 Riser Height: 4.25 ft.  
 Riser Diameter: 120 in.  
 Element Flows To:  
 Outlet 1                      Outlet 2

Pond Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
381.00	2.335	0.000	0.000	0.000
381.08	2.343	0.182	0.000	1.719
381.16	2.351	0.364	0.000	1.719
381.23	2.359	0.547	0.000	1.719
381.31	2.367	0.731	0.000	1.719
381.39	2.375	0.916	0.000	1.719
381.47	2.383	1.101	0.000	1.719
381.54	2.391	1.286	0.000	1.719
381.62	2.399	1.473	0.000	1.719
381.70	2.407	1.660	0.000	1.719
381.78	2.415	1.847	0.000	1.719
381.86	2.423	2.035	0.000	1.719
381.93	2.431	2.224	0.000	1.719
382.01	2.439	2.413	0.000	1.719
382.09	2.447	2.603	0.000	1.719
382.17	2.455	2.794	0.000	1.719
382.24	2.463	2.985	0.000	1.719
382.32	2.471	3.177	0.000	1.719
382.40	2.479	3.370	0.000	1.719
382.48	2.487	3.563	0.000	1.719
382.56	2.495	3.757	0.000	1.719
382.63	2.503	3.951	0.000	1.719
382.71	2.511	4.146	0.000	1.719
382.79	2.519	4.342	0.000	1.719
382.87	2.527	4.538	0.000	1.719
382.94	2.535	4.735	0.000	1.719
383.02	2.544	4.932	0.000	1.719
383.10	2.552	5.131	0.000	1.719
383.18	2.560	5.329	0.000	1.719

383.26	2.568	5.529	0.000	1.719
383.33	2.576	5.729	0.000	1.719
383.41	2.584	5.930	0.000	1.719
383.49	2.593	6.131	0.000	1.719
383.57	2.601	6.333	0.000	1.719
383.64	2.609	6.536	0.000	1.719
383.72	2.617	6.739	0.000	1.719
383.80	2.625	6.943	0.000	1.719
383.88	2.634	7.147	0.000	1.719
383.96	2.642	7.353	0.000	1.719
384.03	2.650	7.558	0.000	1.719
384.11	2.658	7.765	0.000	1.719
384.19	2.667	7.972	0.000	1.719
384.27	2.675	8.180	0.000	1.719
384.34	2.683	8.388	0.000	1.719
384.42	2.692	8.597	0.000	1.719
384.50	2.700	8.807	0.000	1.719
384.58	2.708	9.017	0.000	1.719
384.66	2.717	9.228	0.000	1.719
384.73	2.725	9.440	0.000	1.719
384.81	2.733	9.652	0.000	1.719
384.89	2.742	9.865	0.000	1.719
384.97	2.750	10.07	0.000	1.719
385.04	2.758	10.29	0.000	1.719
385.12	2.767	10.50	0.000	1.719
385.20	2.775	10.72	0.000	1.719
385.28	2.784	10.94	0.491	1.719
385.36	2.792	11.15	3.640	1.719
385.43	2.800	11.37	8.329	1.719
385.51	2.809	11.59	14.15	1.719
385.59	2.817	11.81	20.92	1.719
385.67	2.826	12.03	28.51	1.719
385.74	2.834	12.25	36.84	1.719
385.82	2.843	12.47	45.85	1.719
385.90	2.851	12.69	55.48	1.719
385.98	2.860	12.91	65.69	1.719
386.06	2.868	13.13	76.45	1.719
386.13	2.877	13.36	87.70	1.719
386.21	2.885	13.58	99.43	1.719
386.29	2.894	13.81	111.6	1.719
386.37	2.903	14.03	124.1	1.719
386.44	2.911	14.26	137.1	1.719
386.52	2.920	14.48	150.4	1.719
386.60	2.928	14.71	164.1	1.719
386.68	2.937	14.94	178.0	1.719
386.76	2.945	15.17	192.2	1.719
386.83	2.954	15.40	206.7	1.719
386.91	2.963	15.63	221.3	1.719
386.99	2.971	15.86	236.2	1.719
387.07	2.980	16.09	251.2	1.719
387.14	2.989	16.32	266.3	1.719
387.22	2.997	16.56	281.5	1.719
387.30	3.006	16.79	296.8	1.719
387.38	3.015	17.02	312.1	1.719
387.46	3.023	17.26	327.5	1.719
387.53	3.032	17.49	342.8	1.719
387.61	3.041	17.73	358.0	1.719
387.69	3.050	17.97	373.2	1.719



387.77	3.058	18.20	388.2	1.719
387.84	3.067	18.44	403.1	1.719
387.92	3.076	18.68	417.8	1.719
388.00	3.085	18.92	432.3	1.719
388.08	3.093	19.16	446.6	1.719

3A-5

Bottom Length:	539.00 ft.
Bottom Width:	127.00 ft.
Material thickness of first layer:	1.5
Material type for first layer:	Amended 2.5 in/hr
Material thickness of second layer:	1.5
Material type for second layer:	Amended 2.5 in/hr
Material thickness of third layer:	1.5
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.1
Infiltration safety factor:	1
Total Volume Infiltrated (ac-ft.):	1086.669
Total Volume Through Riser (ac-ft.):	4397.732
Total Volume Through Facility (ac-ft.):	7776.723
Percent Infiltrated:	13.97
Total Precip Applied to Facility:	129.098
Total Evap From Facility:	118.546
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	6
Offset (in.):	3
Flow Through Underdrain (ac-ft.):	2292.322
Total Outflow (ac-ft.):	7776.723
Percent Through Underdrain:	29.48
Discharge Structure	
Riser Height:	3.5 ft.
Riser Diameter:	60 in.
Orifice 1 Diameter:	15 in.      Elevation:1.5 ft.
Element Flows To:	
Outlet 1	Outlet 2
Surface 3A-6	

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
395.00	1.5715	0.0000	0.0000	0.0000
395.10	1.5715	0.0606	0.0000	0.0000
395.20	1.5715	0.1212	0.0000	0.0000
395.30	1.5715	0.1818	0.0000	0.0000
395.40	1.5715	0.2425	0.0000	0.0000
395.49	1.5715	0.3031	0.0000	0.0000
395.59	1.5715	0.3637	0.0000	0.0000
395.69	1.5715	0.4243	0.0000	0.0981
395.79	1.5715	0.4849	0.0000	0.0981
395.89	1.5715	0.5455	0.0000	0.1292
395.99	1.5715	0.6061	0.0000	0.1585
396.09	1.5715	0.6668	0.0000	0.1585
396.19	1.5715	0.7274	0.0000	0.1585
396.29	1.5715	0.7880	0.0000	0.1585
396.38	1.5715	0.8486	0.0000	0.1585
396.48	1.5715	0.9092	0.0000	0.1585
396.58	1.5715	0.9698	0.0000	0.1585
396.68	1.5715	1.0304	0.1080	0.1585
396.78	1.5715	1.0910	0.1621	0.1585
396.88	1.5715	1.1517	0.2349	0.1585
396.98	1.5715	1.2123	0.2714	0.1585

397.08	1.5715	1.2729	0.3245	0.1585
397.18	1.5715	1.3335	0.3511	0.1585
397.27	1.5715	1.3941	0.3938	0.1585
397.37	1.5715	1.4547	0.4152	0.1585
397.47	1.5715	1.5153	0.4517	0.1585
397.57	1.5715	1.5760	0.4700	0.1585
397.67	1.5715	1.6366	0.5025	0.1585
397.77	1.5715	1.6972	0.5188	0.1585
397.87	1.5715	1.7578	0.5483	0.1585
397.97	1.5715	1.8184	0.5631	0.1585
398.07	1.5715	1.8829	0.5905	0.1585
398.16	1.5715	1.9474	0.6042	0.1585
398.26	1.5715	2.0119	0.6298	0.1585
398.36	1.5715	2.0764	0.6426	0.1585
398.46	1.5715	2.1409	0.6667	0.1585
398.56	1.5715	2.2054	0.6788	0.1585
398.66	1.5715	2.2699	0.7017	0.1585
398.76	1.5715	2.3344	0.7131	0.1585
398.86	1.5715	2.3989	0.7349	0.1585
398.96	1.5715	2.4634	0.7663	0.1585
399.05	1.5715	2.5279	0.8109	0.1585
399.15	1.5715	2.5924	0.8603	0.1585
399.25	1.5715	2.6569	0.9106	0.1585
399.35	1.5715	2.7214	0.9602	0.1585
399.45	1.5715	2.7859	1.0087	0.1585
399.50	1.5715	2.8181	2.0140	0.1585

Landscape Swale Hydraulic Table

<b>Stage(feet)</b>	<b>Area(ac.)</b>	<b>Volume(ac-ft.)</b>	<b>Discharge(cfs)</b>	<b>To Amended(cfs)</b>	<b>Infil(cfs)</b>
4.5000	1.5715	2.8181	0.0000	1.1671	0.0000
4.5989	1.5805	2.9740	0.0000	1.1671	0.0000
4.6978	1.5896	3.1308	0.0000	1.1671	0.0000
4.7967	1.5988	3.2884	0.0000	1.1671	0.0000
4.8956	1.6079	3.4470	0.0000	1.1671	0.0000
4.9945	1.6170	3.6065	0.0000	1.1671	0.0000
5.0934	1.6262	3.7669	0.0000	1.1671	0.0000
5.1923	1.6354	3.9282	0.0000	1.1671	0.0000
5.2912	1.6446	4.0904	0.0000	1.1671	0.0000
5.3901	1.6538	4.2535	0.0000	1.1671	0.0000
5.4890	1.6630	4.4175	0.0000	1.1671	0.0000
5.5879	1.6722	4.5824	0.0000	1.1671	0.0000
5.6868	1.6815	4.7482	0.0000	1.1671	0.0000
5.7857	1.6908	4.9150	0.0000	1.1671	0.0000
5.8846	1.7001	5.0827	0.0000	1.1671	0.0000
5.9835	1.7094	5.2513	0.0000	1.1671	0.0000
6.0824	1.7187	5.4208	1.7529	1.1671	0.0000
6.1813	1.7280	5.5913	2.5999	1.1671	0.0000
6.2802	1.7374	5.7626	3.2321	1.1671	0.0000
6.3791	1.7468	5.9349	3.7595	1.1671	0.0000
6.4780	1.7562	6.1081	4.2215	1.1671	0.0000
6.5769	1.7656	6.2823	4.6377	1.1671	0.0000
6.6758	1.7750	6.4574	5.0195	1.1671	0.0000
6.7747	1.7844	6.6334	5.3742	1.1671	0.0000
6.8736	1.7939	6.8103	5.7070	1.1671	0.0000
6.9725	1.8033	6.9882	6.0213	1.1671	0.0000
7.0714	1.8128	7.1670	6.3201	1.1671	0.0000
7.1703	1.8223	7.3468	6.6053	1.1671	0.0000
7.2692	1.8318	7.5275	6.8788	1.1671	0.0000

7.3681	1.8414	7.7091	7.1418	1.1671	0.0000
7.4670	1.8509	7.8917	7.3954	1.1671	0.0000
7.5659	1.8605	8.0753	7.6406	1.1671	0.0000
7.6648	1.8701	8.2597	7.8782	1.1671	0.0000
7.7637	1.8797	8.4452	8.1088	1.1671	0.0000
7.8626	1.8893	8.6315	8.3331	1.1671	0.0000
7.9615	1.8989	8.8189	8.5514	1.1671	0.0000
8.0604	1.9086	9.0071	9.5530	1.1671	0.0000
8.1593	1.9182	9.1964	12.345	1.1671	0.0000
8.2582	1.9279	9.3866	16.128	1.1671	0.0000
8.3571	1.9376	9.5777	20.668	1.1671	0.0000
8.4560	1.9473	9.7698	25.831	1.1671	0.0000
8.5549	1.9570	9.9629	31.517	1.1671	0.0000
8.6538	1.9668	10.157	37.640	1.1671	0.0000
8.7527	1.9765	10.352	44.118	1.1671	0.0000
8.8516	1.9863	10.548	50.867	1.1671	0.0000
8.9505	1.9961	10.745	57.804	1.1671	0.0000
9.0000	2.0010	10.844	64.843	1.1671	0.0000

## Surface 3A-5

Element Flows To:

Outlet 1

Surface 3A-6

Outlet 2

3A-5

### 3A-6

Bottom Length:	382.00 ft.
Bottom Width:	112.00 ft.
Material thickness of first layer:	1.5
Material type for first layer:	Amended 2.5 in/hr
Material thickness of second layer:	1.5
Material type for second layer:	Amended 2.5 in/hr
Material thickness of third layer:	1.5
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.1
Infiltration safety factor:	1
Total Volume Infiltrated (ac-ft.):	575.825
Total Volume Through Riser (ac-ft.):	3453.063
Total Volume Through Facility (ac-ft.):	6705.572
Percent Infiltrated:	8.59
Total Precip Applied to Facility:	60.994
Total Evap From Facility:	47.451
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	6
Offset (in.):	3
Flow Through Underdrain (ac-ft.):	2676.684
Total Outflow (ac-ft.):	6705.572
Percent Through Underdrain:	39.92
Discharge Structure	
Riser Height:	3.5 ft.
Riser Diameter:	84 in.
Orifice 1 Diameter:	12 in.
Element Flows To:	Elevation:1.5 ft.
Outlet 1	Outlet 2
Surface 3A-7	

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
395.00	0.9822	0.0000	0.0000	0.0000
395.10	0.9822	0.0379	0.0000	0.0000
395.20	0.9822	0.0758	0.0000	0.0000
395.30	0.9822	0.1137	0.0000	0.0000
395.40	0.9822	0.1515	0.0000	0.0000
395.49	0.9822	0.1894	0.0000	0.0000
395.59	0.9822	0.2273	0.0000	0.0000
395.69	0.9822	0.2652	0.0000	0.0613
395.79	0.9822	0.3031	0.0000	0.0613
395.89	0.9822	0.3410	0.0000	0.0807
395.99	0.9822	0.3788	0.0000	0.0990
396.09	0.9822	0.4167	0.0000	0.0990
396.19	0.9822	0.4546	0.0000	0.0990
396.29	0.9822	0.4925	0.0000	0.0990
396.38	0.9822	0.5304	0.0000	0.0990
396.48	0.9822	0.5683	0.0000	0.0990
396.58	0.9822	0.6061	0.0000	0.0990
396.68	0.9822	0.6440	0.1080	0.0990
396.78	0.9822	0.6819	0.1621	0.0990
396.88	0.9822	0.7198	0.2349	0.0990
396.98	0.9822	0.7577	0.2714	0.0990

397.08	0.9822	0.7956	0.3245	0.0990
397.18	0.9822	0.8335	0.3511	0.0990
397.27	0.9822	0.8713	0.3938	0.0990
397.37	0.9822	0.9092	0.4152	0.0990
397.47	0.9822	0.9471	0.4517	0.0990
397.57	0.9822	0.9850	0.4700	0.0990
397.67	0.9822	1.0229	0.5025	0.0990
397.77	0.9822	1.0608	0.5188	0.0990
397.87	0.9822	1.0986	0.5483	0.0990
397.97	0.9822	1.1365	0.5631	0.0990
398.07	0.9822	1.1768	0.5905	0.0990
398.16	0.9822	1.2172	0.6042	0.0990
398.26	0.9822	1.2575	0.6298	0.0990
398.36	0.9822	1.2978	0.6426	0.0990
398.46	0.9822	1.3381	0.6667	0.0990
398.56	0.9822	1.3784	0.6788	0.0990
398.66	0.9822	1.4187	0.7017	0.0990
398.76	0.9822	1.4590	0.7131	0.0990
398.86	0.9822	1.4993	0.7349	0.0990
398.96	0.9822	1.5397	0.7663	0.0990
399.05	0.9822	1.5800	0.8109	0.0990
399.15	0.9822	1.6203	0.8603	0.0990
399.25	0.9822	1.6606	0.9106	0.0990
399.35	0.9822	1.7009	0.9602	0.0990
399.45	0.9822	1.7412	1.0087	0.0990
399.50	0.9822	1.7614	2.0140	0.0990

Landscape Swale Hydraulic Table

<b>Stage(feet)</b>	<b>Area(ac.)</b>	<b>Volume(ac-ft.)</b>	<b>Discharge(cfs)</b>	<b>To Amended(cfs)</b>	<b>Infil(cfs)</b>
4.5000	0.9822	1.7614	0.0000	1.1077	0.0000
4.5989	0.9889	1.8588	0.0000	1.1077	0.0000
4.6978	0.9957	1.9570	0.0000	1.1077	0.0000
4.7967	1.0024	2.0558	0.0000	1.1077	0.0000
4.8956	1.0092	2.1553	0.0000	1.1077	0.0000
4.9945	1.0160	2.2554	0.0000	1.1077	0.0000
5.0934	1.0229	2.3563	0.0000	1.1077	0.0000
5.1923	1.0297	2.4578	0.0000	1.1077	0.0000
5.2912	1.0365	2.5599	0.0000	1.1077	0.0000
5.3901	1.0434	2.6628	0.0000	1.1077	0.0000
5.4890	1.0503	2.7663	0.0000	1.1077	0.0000
5.5879	1.0572	2.8705	0.0000	1.1077	0.0000
5.6868	1.0641	2.9754	0.0000	1.1077	0.0000
5.7857	1.0710	3.0810	0.0000	1.1077	0.0000
5.8846	1.0780	3.1873	0.0000	1.1077	0.0000
5.9835	1.0849	3.2942	0.0000	1.1077	0.0000
6.0824	1.0919	3.4019	1.1218	1.1077	0.0000
6.1813	1.0989	3.5102	1.6640	1.1077	0.0000
6.2802	1.1059	3.6193	2.0686	1.1077	0.0000
6.3791	1.1130	3.7290	2.4061	1.1077	0.0000
6.4780	1.1200	3.8394	2.7017	1.1077	0.0000
6.5769	1.1271	3.9505	2.9681	1.1077	0.0000
6.6758	1.1342	4.0623	3.2125	1.1077	0.0000
6.7747	1.1412	4.1749	3.4395	1.1077	0.0000
6.8736	1.1484	4.2881	3.6524	1.1077	0.0000
6.9725	1.1555	4.4020	3.8536	1.1077	0.0000
7.0714	1.1626	4.5166	4.0449	1.1077	0.0000
7.1703	1.1698	4.6320	4.2274	1.1077	0.0000
7.2692	1.1770	4.7480	4.4024	1.1077	0.0000

7.3681	1.1841	4.8648	4.5707	1.1077	0.0000
7.4670	1.1913	4.9823	4.7331	1.1077	0.0000
7.5659	1.1986	5.1004	4.8900	1.1077	0.0000
7.6648	1.2058	5.2193	5.0420	1.1077	0.0000
7.7637	1.2131	5.3390	5.1896	1.1077	0.0000
7.8626	1.2203	5.4593	5.3332	1.1077	0.0000
7.9615	1.2276	5.5803	5.4729	1.1077	0.0000
8.0604	1.2349	5.7021	6.7134	1.1077	0.0000
8.1593	1.2422	5.8246	10.466	1.1077	0.0000
8.2582	1.2496	5.9478	15.613	1.1077	0.0000
8.3571	1.2569	6.0718	21.832	1.1077	0.0000
8.4560	1.2643	6.1965	28.950	1.1077	0.0000
8.5549	1.2717	6.3219	36.849	1.1077	0.0000
8.6538	1.2791	6.4480	45.438	1.1077	0.0000
8.7527	1.2865	6.5749	54.636	1.1077	0.0000
8.8516	1.2939	6.7025	64.371	1.1077	0.0000
8.9505	1.3014	6.8308	74.572	1.1077	0.0000
9.0000	1.3051	6.8953	85.170	1.1077	0.0000



## Surface 3A-6

Element Flows To:

Outlet 1

Surface 3A-7

Outlet 2

3A-6

3A-9

Bottom Length: 850.00 ft.  
 Bottom Width: 215.00 ft.  
 Depth: 5 ft.  
 Volume at riser head: 13.2537 acre-feet.  
 Side slope 1: 3 To 1  
 Side slope 2: 3 To 1  
 Side slope 3: 3 To 1  
 Side slope 4: 3 To 1  
 Discharge Structure  
 Riser Height: 3 ft.  
 Riser Diameter: 864 in.  
 Orifice 1 Diameter: 36 in. Elevation:0 ft.  
 Orifice 2 Diameter: 18 in. Elevation:0 ft.  
 Element Flows To:  
 Outlet 1                      Outlet 2  
 3A-10

Pond Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
335.00	4.195	0.000	0.000	0.000
335.06	4.203	0.233	10.36	0.000
335.11	4.211	0.467	14.65	0.000
335.17	4.219	0.701	17.94	0.000
335.22	4.228	0.935	20.72	0.000
335.28	4.236	1.171	23.17	0.000
335.33	4.244	1.406	25.38	0.000
335.39	4.252	1.642	27.41	0.000
335.44	4.260	1.879	29.30	0.000
335.50	4.268	2.116	31.08	0.000
335.56	4.277	2.353	32.76	0.000
335.61	4.285	2.591	34.36	0.000
335.67	4.293	2.829	35.89	0.000
335.72	4.301	3.068	37.36	0.000
335.78	4.310	3.307	38.77	0.000
335.83	4.318	3.547	40.13	0.000
335.89	4.326	3.787	41.44	0.000
335.94	4.334	4.027	42.72	0.000
336.00	4.342	4.269	43.96	0.000
336.06	4.351	4.510	45.16	0.000
336.11	4.359	4.752	46.34	0.000
336.17	4.367	4.994	47.48	0.000
336.22	4.375	5.237	48.60	0.000
336.28	4.384	5.481	49.69	0.000
336.33	4.392	5.724	50.76	0.000
336.39	4.400	5.969	51.80	0.000
336.44	4.409	6.213	52.83	0.000
336.50	4.417	6.459	53.84	0.000
336.56	4.425	6.704	54.83	0.000
336.61	4.433	6.950	55.80	0.000
336.67	4.442	7.197	56.75	0.000
336.72	4.450	7.444	57.69	0.000
336.78	4.458	7.691	58.61	0.000
336.83	4.467	7.939	59.52	0.000
336.89	4.475	8.188	60.41	0.000
336.94	4.483	8.437	61.30	0.000

337.00	4.492	8.686	62.17	0.000
337.06	4.500	8.936	63.02	0.000
337.11	4.508	9.186	63.87	0.000
337.17	4.517	9.437	64.71	0.000
337.22	4.525	9.688	65.53	0.000
337.28	4.533	9.939	66.34	0.000
337.33	4.542	10.19	67.15	0.000
337.39	4.550	10.44	67.94	0.000
337.44	4.558	10.69	68.73	0.000
337.50	4.567	10.95	69.50	0.000
337.56	4.575	11.20	70.27	0.000
337.61	4.584	11.46	71.03	0.000
337.67	4.592	11.71	71.78	0.000
337.72	4.600	11.97	72.53	0.000
337.78	4.609	12.22	73.26	0.000
337.83	4.617	12.48	73.99	0.000
337.89	4.626	12.73	74.72	0.000
337.94	4.634	12.99	75.43	0.000
338.00	4.642	13.25	76.14	0.000
338.06	4.651	13.51	86.86	0.000
338.11	4.659	13.77	105.8	0.000
338.17	4.668	14.03	130.2	0.000
338.22	4.676	14.28	159.0	0.000
338.28	4.685	14.54	191.5	0.000
338.33	4.693	14.81	227.4	0.000
338.39	4.702	15.07	266.3	0.000
338.44	4.710	15.33	308.1	0.000
338.50	4.718	15.59	352.5	0.000
338.56	4.727	15.85	399.4	0.000
338.61	4.735	16.11	448.7	0.000
338.67	4.744	16.38	500.2	0.000
338.72	4.752	16.64	553.9	0.000
338.78	4.761	16.91	609.7	0.000
338.83	4.769	17.17	667.4	0.000
338.89	4.778	17.44	727.1	0.000
338.94	4.786	17.70	788.7	0.000
339.00	4.795	17.97	852.1	0.000
339.06	4.803	18.23	917.2	0.000
339.11	4.812	18.50	984.0	0.000
339.17	4.820	18.77	1052.	0.000
339.22	4.829	19.04	1122.	0.000
339.28	4.838	19.31	1194.	0.000
339.33	4.846	19.58	1267.	0.000
339.39	4.855	19.84	1342.	0.000
339.44	4.863	20.11	1418.	0.000
339.50	4.872	20.39	1496.	0.000
339.56	4.880	20.66	1575.	0.000
339.61	4.889	20.93	1656.	0.000
339.67	4.897	21.20	1738.	0.000
339.72	4.906	21.47	1821.	0.000
339.78	4.915	21.74	1906.	0.000
339.83	4.923	22.02	1992.	0.000
339.89	4.932	22.29	2079.	0.000
339.94	4.940	22.57	2168.	0.000
340.00	4.949	22.84	2258.	0.000
340.06	4.958	23.12	2349.	0.000

**3A-10**

Bottom Length: 660.00 ft.  
 Bottom Width: 135.00 ft.  
 Depth: 5 ft.  
 Volume at riser head: 6.6366 acre-feet.  
 Side slope 1: 3 To 1  
 Side slope 2: 3 To 1  
 Side slope 3: 3 To 1  
 Side slope 4: 3 To 1  
 Discharge Structure  
 Riser Height: 3 ft.  
 Riser Diameter: 84 in.  
 Orifice 1 Diameter: 36 in. Elevation:0 ft.  
 Orifice 2 Diameter: 18 in. Elevation:0 ft.  
 Element Flows To:  
 Outlet 1                      Outlet 2  
 3A-11

Pond Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
315.00	2.045	0.000	0.000	0.000
315.06	2.051	0.113	10.36	0.000
315.11	2.057	0.227	14.65	0.000
315.17	2.063	0.342	17.94	0.000
315.22	2.069	0.457	20.72	0.000
315.28	2.075	0.572	23.17	0.000
315.33	2.082	0.687	25.38	0.000
315.39	2.088	0.803	27.41	0.000
315.44	2.094	0.919	29.30	0.000
315.50	2.100	1.036	31.08	0.000
315.56	2.106	1.153	32.76	0.000
315.61	2.112	1.270	34.36	0.000
315.67	2.118	1.388	35.89	0.000
315.72	2.125	1.505	37.36	0.000
315.78	2.131	1.624	38.77	0.000
315.83	2.137	1.742	40.13	0.000
315.89	2.143	1.861	41.44	0.000
315.94	2.149	1.980	42.72	0.000
316.00	2.155	2.100	43.96	0.000
316.06	2.162	2.220	45.16	0.000
316.11	2.168	2.340	46.34	0.000
316.17	2.174	2.461	47.48	0.000
316.22	2.180	2.582	48.60	0.000
316.28	2.186	2.703	49.69	0.000
316.33	2.192	2.825	50.76	0.000
316.39	2.199	2.947	51.80	0.000
316.44	2.205	3.069	52.83	0.000
316.50	2.211	3.192	53.84	0.000
316.56	2.217	3.315	54.83	0.000
316.61	2.224	3.438	55.80	0.000
316.67	2.230	3.562	56.75	0.000
316.72	2.236	3.686	57.69	0.000
316.78	2.242	3.811	58.61	0.000
316.83	2.249	3.935	59.52	0.000
316.89	2.255	4.060	60.41	0.000
316.94	2.261	4.186	61.30	0.000

317.00	2.267	4.312	62.17	0.000
317.06	2.274	4.438	63.02	0.000
317.11	2.280	4.564	63.87	0.000
317.17	2.286	4.691	64.71	0.000
317.22	2.292	4.818	65.53	0.000
317.28	2.299	4.946	66.34	0.000
317.33	2.305	5.074	67.15	0.000
317.39	2.311	5.202	67.94	0.000
317.44	2.318	5.331	68.73	0.000
317.50	2.324	5.460	69.50	0.000
317.56	2.330	5.589	70.27	0.000
317.61	2.337	5.719	71.03	0.000
317.67	2.343	5.849	71.78	0.000
317.72	2.349	5.979	72.53	0.000
317.78	2.356	6.110	73.26	0.000
317.83	2.362	6.241	73.99	0.000
317.89	2.368	6.372	74.72	0.000
317.94	2.375	6.504	75.43	0.000
318.00	2.381	6.636	76.14	0.000
318.06	2.387	6.769	77.81	0.000
318.11	2.394	6.901	80.29	0.000
318.17	2.400	7.035	83.28	0.000
318.22	2.406	7.168	86.69	0.000
318.28	2.413	7.302	90.45	0.000
318.33	2.419	7.436	94.54	0.000
318.39	2.426	7.571	98.91	0.000
318.44	2.432	7.706	103.5	0.000
318.50	2.438	7.841	108.4	0.000
318.56	2.445	7.977	113.5	0.000
318.61	2.451	8.113	118.8	0.000
318.67	2.458	8.249	124.4	0.000
318.72	2.464	8.386	130.1	0.000
318.78	2.470	8.523	135.9	0.000
318.83	2.477	8.661	142.0	0.000
318.89	2.483	8.798	148.2	0.000
318.94	2.490	8.937	154.5	0.000
319.00	2.496	9.075	160.9	0.000
319.06	2.503	9.214	167.5	0.000
319.11	2.509	9.353	174.1	0.000
319.17	2.516	9.493	180.9	0.000
319.22	2.522	9.633	187.7	0.000
319.28	2.529	9.773	194.6	0.000
319.33	2.535	9.914	201.5	0.000
319.39	2.542	10.05	208.4	0.000
319.44	2.548	10.19	215.4	0.000
319.50	2.555	10.33	222.4	0.000
319.56	2.561	10.48	229.4	0.000
319.61	2.568	10.62	236.4	0.000
319.67	2.574	10.76	243.3	0.000
319.72	2.581	10.90	250.2	0.000
319.78	2.587	11.05	257.0	0.000
319.83	2.594	11.19	263.8	0.000
319.89	2.600	11.34	270.5	0.000
319.94	2.607	11.48	277.1	0.000
320.00	2.613	11.63	283.6	0.000
320.06	2.620	11.77	289.9	0.000

## Flow Splitter 1

Bottom Length: 10.00 ft.  
 Bottom Length: 10.00 ft.  
 Depth: 10 ft.  
 Side slope 1: 0 To 1  
 Side slope 2: 0 To 1  
 Side slope 3: 0 To 1  
 Side slope 4: 0 To 1

Threshold Splitter Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Primary(cfs)	Secondary(cfs)
0.000	0.002	0.000	6.900	0.000
0.111	0.002	0.000	6.900	0.000
0.222	0.002	0.000	6.900	0.000
0.333	0.002	0.000	6.900	0.000
0.444	0.002	0.001	6.900	0.000
0.555	0.002	0.001	6.900	0.000
0.666	0.002	0.001	6.900	0.000
0.777	0.002	0.001	6.900	0.000
0.888	0.002	0.002	6.900	0.000
1.000	0.002	0.002	6.900	0.000
1.111	0.002	0.002	6.900	0.000
1.222	0.002	0.002	6.900	0.000
1.333	0.002	0.003	6.900	0.000
1.444	0.002	0.003	6.900	0.000
1.555	0.002	0.003	6.900	0.000
1.666	0.002	0.003	6.900	0.000
1.777	0.002	0.004	6.900	0.000
1.888	0.002	0.004	6.900	0.000
2.000	0.002	0.004	6.900	0.000
2.111	0.002	0.004	6.900	0.000
2.222	0.002	0.005	6.900	0.000
2.333	0.002	0.005	6.900	0.000
2.444	0.002	0.005	6.900	0.000
2.555	0.002	0.005	6.900	0.000
2.666	0.002	0.006	6.900	0.000
2.777	0.002	0.006	6.900	0.000
2.888	0.002	0.006	6.900	1000
3.000	0.002	0.006	6.900	1000
3.111	0.002	0.007	6.900	1000
3.222	0.002	0.007	6.900	1000
3.333	0.002	0.007	6.900	1000
3.444	0.002	0.007	6.900	1000
3.555	0.002	0.008	6.900	1000
3.666	0.002	0.008	6.900	1000
3.777	0.002	0.008	6.900	1000
3.888	0.002	0.008	6.900	1000
4.000	0.002	0.009	6.900	1000
4.111	0.002	0.009	6.900	1000
4.222	0.002	0.009	6.900	1000
4.333	0.002	0.009	6.900	1000
4.444	0.002	0.010	6.900	1000
4.555	0.002	0.010	6.900	1000
4.666	0.002	0.010	6.900	1000
4.777	0.002	0.011	6.900	1000
4.888	0.002	0.011	6.900	1000
5.000	0.002	0.011	6.900	1000
5.111	0.002	0.011	6.900	1000

5.222	0.002	0.012	6.900	1000
5.333	0.002	0.012	6.900	1000
5.444	0.002	0.012	6.900	1000
5.555	0.002	0.012	6.900	1000
5.666	0.002	0.013	6.900	1000
5.777	0.002	0.013	6.900	1000
5.888	0.002	0.013	6.900	1000
6.000	0.002	0.013	6.900	1000
6.111	0.002	0.014	6.900	1000
6.222	0.002	0.014	6.900	1000
6.333	0.002	0.014	6.900	1000
6.444	0.002	0.014	6.900	1000
6.555	0.002	0.015	6.900	1000
6.666	0.002	0.015	6.900	1000
6.777	0.002	0.015	6.900	1000
6.888	0.002	0.015	6.900	1000
7.000	0.002	0.016	6.900	1000
7.111	0.002	0.016	6.900	1000
7.222	0.002	0.016	6.900	1000
7.333	0.002	0.016	6.900	1000
7.444	0.002	0.017	6.900	1000
7.555	0.002	0.017	6.900	1000
7.666	0.002	0.017	6.900	1000
7.777	0.002	0.017	6.900	1000
7.888	0.002	0.018	6.900	1000
8.000	0.002	0.018	6.900	1000
8.111	0.002	0.018	6.900	1000
8.222	0.002	0.018	6.900	1000
8.333	0.002	0.019	6.900	1000
8.444	0.002	0.019	6.900	1000
8.555	0.002	0.019	6.900	1000
8.666	0.002	0.019	6.900	1000
8.777	0.002	0.020	6.900	1000
8.888	0.002	0.020	6.900	1000
9.000	0.002	0.020	6.900	1000
9.111	0.002	0.020	6.900	1000
9.222	0.002	0.021	6.900	1000
9.333	0.002	0.021	6.900	1000
9.444	0.002	0.021	6.900	1000
9.555	0.002	0.021	6.900	1000
9.666	0.002	0.022	6.900	1000
9.777	0.002	0.022	6.900	1000
9.888	0.002	0.022	6.900	1000
10.00	0.002	0.023	6.900	1000
10.11	0.002	0.023	6.900	1000

Discharge Structure

Riser Height: 0 ft.

Riser Diameter: 0 in.

Element Flows To:

Outlet 1                      Outlet 2  
Surface 3A-1                  3A-9

Bottom Length: 10.00 ft.  
 Bottom Length: 10.00 ft.  
 Depth: 10 ft.  
 Side slope 1: 0 To 1  
 Side slope 2: 0 To 1  
 Side slope 3: 0 To 1  
 Side slope 4: 0 To 1

Threshold Splitter Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Primary(cfs)	Secondary(cfs)
0.000	0.002	0.000	35.60	0.000
0.111	0.002	0.000	35.60	0.000
0.222	0.002	0.000	35.60	0.000
0.333	0.002	0.000	35.60	0.000
0.444	0.002	0.001	35.60	0.000
0.555	0.002	0.001	35.60	0.000
0.666	0.002	0.001	35.60	0.000
0.777	0.002	0.001	35.60	0.000
0.888	0.002	0.002	35.60	0.000
1.000	0.002	0.002	35.60	0.000
1.111	0.002	0.002	35.60	0.000
1.222	0.002	0.002	35.60	0.000
1.333	0.002	0.003	35.60	0.000
1.444	0.002	0.003	35.60	0.000
1.555	0.002	0.003	35.60	0.000
1.666	0.002	0.003	35.60	0.000
1.777	0.002	0.004	35.60	0.000
1.888	0.002	0.004	35.60	0.000
2.000	0.002	0.004	35.60	0.000
2.111	0.002	0.004	35.60	0.000
2.222	0.002	0.005	35.60	0.000
2.333	0.002	0.005	35.60	0.000
2.444	0.002	0.005	35.60	0.000
2.555	0.002	0.005	35.60	0.000
2.666	0.002	0.006	35.60	0.000
2.777	0.002	0.006	35.60	0.000
2.888	0.002	0.006	35.60	1000
3.000	0.002	0.006	35.60	1000
3.111	0.002	0.007	35.60	1000
3.222	0.002	0.007	35.60	1000
3.333	0.002	0.007	35.60	1000
3.444	0.002	0.007	35.60	1000
3.555	0.002	0.008	35.60	1000
3.666	0.002	0.008	35.60	1000
3.777	0.002	0.008	35.60	1000
3.888	0.002	0.008	35.60	1000
4.000	0.002	0.009	35.60	1000
4.111	0.002	0.009	35.60	1000
4.222	0.002	0.009	35.60	1000
4.333	0.002	0.009	35.60	1000
4.444	0.002	0.010	35.60	1000
4.555	0.002	0.010	35.60	1000
4.666	0.002	0.010	35.60	1000
4.777	0.002	0.011	35.60	1000
4.888	0.002	0.011	35.60	1000
5.000	0.002	0.011	35.60	1000
5.111	0.002	0.011	35.60	1000



5.222	0.002	0.012	35.60	1000
5.333	0.002	0.012	35.60	1000
5.444	0.002	0.012	35.60	1000
5.555	0.002	0.012	35.60	1000
5.666	0.002	0.013	35.60	1000
5.777	0.002	0.013	35.60	1000
5.888	0.002	0.013	35.60	1000
6.000	0.002	0.013	35.60	1000
6.111	0.002	0.014	35.60	1000
6.222	0.002	0.014	35.60	1000
6.333	0.002	0.014	35.60	1000
6.444	0.002	0.014	35.60	1000
6.555	0.002	0.015	35.60	1000
6.666	0.002	0.015	35.60	1000
6.777	0.002	0.015	35.60	1000
6.888	0.002	0.015	35.60	1000
7.000	0.002	0.016	35.60	1000
7.111	0.002	0.016	35.60	1000
7.222	0.002	0.016	35.60	1000
7.333	0.002	0.016	35.60	1000
7.444	0.002	0.017	35.60	1000
7.555	0.002	0.017	35.60	1000
7.666	0.002	0.017	35.60	1000
7.777	0.002	0.017	35.60	1000
7.888	0.002	0.018	35.60	1000
8.000	0.002	0.018	35.60	1000
8.111	0.002	0.018	35.60	1000
8.222	0.002	0.018	35.60	1000
8.333	0.002	0.019	35.60	1000
8.444	0.002	0.019	35.60	1000
8.555	0.002	0.019	35.60	1000
8.666	0.002	0.019	35.60	1000
8.777	0.002	0.020	35.60	1000
8.888	0.002	0.020	35.60	1000
9.000	0.002	0.020	35.60	1000
9.111	0.002	0.020	35.60	1000
9.222	0.002	0.021	35.60	1000
9.333	0.002	0.021	35.60	1000
9.444	0.002	0.021	35.60	1000
9.555	0.002	0.021	35.60	1000
9.666	0.002	0.022	35.60	1000
9.777	0.002	0.022	35.60	1000
9.888	0.002	0.022	35.60	1000
10.00	0.002	0.023	35.60	1000
10.11	0.002	0.023	35.60	1000

Discharge Structure

Riser Height: 0 ft.

Riser Diameter: 0 in.

Element Flows To:

Outlet 1                      Outlet 2

3A-2                            3A-9

### Flow Splitter 3

Bottom Length: 10.00 ft.  
 Bottom Length: 10.00 ft.  
 Depth: 10 ft.  
 Side slope 1: 0 To 1  
 Side slope 2: 0 To 1  
 Side slope 3: 0 To 1  
 Side slope 4: 0 To 1

Threshold Splitter Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Primary(cfs)	Secondary(cfs)
0.000	0.002	0.000	5.000	0.000
0.111	0.002	0.000	5.000	0.000
0.222	0.002	0.000	5.000	0.000
0.333	0.002	0.000	5.000	0.000
0.444	0.002	0.001	5.000	0.000
0.555	0.002	0.001	5.000	0.000
0.666	0.002	0.001	5.000	0.000
0.777	0.002	0.001	5.000	0.000
0.888	0.002	0.002	5.000	0.000
1.000	0.002	0.002	5.000	0.000
1.111	0.002	0.002	5.000	0.000
1.222	0.002	0.002	5.000	0.000
1.333	0.002	0.003	5.000	0.000
1.444	0.002	0.003	5.000	0.000
1.555	0.002	0.003	5.000	0.000
1.666	0.002	0.003	5.000	0.000
1.777	0.002	0.004	5.000	0.000
1.888	0.002	0.004	5.000	0.000
2.000	0.002	0.004	5.000	0.000
2.111	0.002	0.004	5.000	0.000
2.222	0.002	0.005	5.000	0.000
2.333	0.002	0.005	5.000	0.000
2.444	0.002	0.005	5.000	0.000
2.555	0.002	0.005	5.000	0.000
2.666	0.002	0.006	5.000	0.000
2.777	0.002	0.006	5.000	0.000
2.888	0.002	0.006	5.000	1000
3.000	0.002	0.006	5.000	1000
3.111	0.002	0.007	5.000	1000
3.222	0.002	0.007	5.000	1000
3.333	0.002	0.007	5.000	1000
3.444	0.002	0.007	5.000	1000
3.555	0.002	0.008	5.000	1000
3.666	0.002	0.008	5.000	1000
3.777	0.002	0.008	5.000	1000
3.888	0.002	0.008	5.000	1000
4.000	0.002	0.009	5.000	1000
4.111	0.002	0.009	5.000	1000
4.222	0.002	0.009	5.000	1000
4.333	0.002	0.009	5.000	1000
4.444	0.002	0.010	5.000	1000
4.555	0.002	0.010	5.000	1000
4.666	0.002	0.010	5.000	1000
4.777	0.002	0.011	5.000	1000
4.888	0.002	0.011	5.000	1000
5.000	0.002	0.011	5.000	1000
5.111	0.002	0.011	5.000	1000

5.222	0.002	0.012	5.000	1000
5.333	0.002	0.012	5.000	1000
5.444	0.002	0.012	5.000	1000
5.555	0.002	0.012	5.000	1000
5.666	0.002	0.013	5.000	1000
5.777	0.002	0.013	5.000	1000
5.888	0.002	0.013	5.000	1000
6.000	0.002	0.013	5.000	1000
6.111	0.002	0.014	5.000	1000
6.222	0.002	0.014	5.000	1000
6.333	0.002	0.014	5.000	1000
6.444	0.002	0.014	5.000	1000
6.555	0.002	0.015	5.000	1000
6.666	0.002	0.015	5.000	1000
6.777	0.002	0.015	5.000	1000
6.888	0.002	0.015	5.000	1000
7.000	0.002	0.016	5.000	1000
7.111	0.002	0.016	5.000	1000
7.222	0.002	0.016	5.000	1000
7.333	0.002	0.016	5.000	1000
7.444	0.002	0.017	5.000	1000
7.555	0.002	0.017	5.000	1000
7.666	0.002	0.017	5.000	1000
7.777	0.002	0.017	5.000	1000
7.888	0.002	0.018	5.000	1000
8.000	0.002	0.018	5.000	1000
8.111	0.002	0.018	5.000	1000
8.222	0.002	0.018	5.000	1000
8.333	0.002	0.019	5.000	1000
8.444	0.002	0.019	5.000	1000
8.555	0.002	0.019	5.000	1000
8.666	0.002	0.019	5.000	1000
8.777	0.002	0.020	5.000	1000
8.888	0.002	0.020	5.000	1000
9.000	0.002	0.020	5.000	1000
9.111	0.002	0.020	5.000	1000
9.222	0.002	0.021	5.000	1000
9.333	0.002	0.021	5.000	1000
9.444	0.002	0.021	5.000	1000
9.555	0.002	0.021	5.000	1000
9.666	0.002	0.022	5.000	1000
9.777	0.002	0.022	5.000	1000
9.888	0.002	0.022	5.000	1000
10.00	0.002	0.023	5.000	1000
10.11	0.002	0.023	5.000	1000

Discharge Structure

Riser Height: 0 ft.

Riser Diameter: 0 in.

Element Flows To:

Outlet 1                      Outlet 2

3A-3                            3A-4

## Flow Splitter 4

Bottom Length: 10.00 ft.  
 Bottom Length: 10.00 ft.  
 Depth: 10 ft.  
 Side slope 1: 0 To 1  
 Side slope 2: 0 To 1  
 Side slope 3: 0 To 1  
 Side slope 4: 0 To 1

Threshold Splitter Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Primary(cfs)	Secondary(cfs)
0.000	0.002	0.000	36.10	0.000
0.111	0.002	0.000	36.10	0.000
0.222	0.002	0.000	36.10	0.000
0.333	0.002	0.000	36.10	0.000
0.444	0.002	0.001	36.10	0.000
0.555	0.002	0.001	36.10	0.000
0.666	0.002	0.001	36.10	0.000
0.777	0.002	0.001	36.10	0.000
0.888	0.002	0.002	36.10	0.000
1.000	0.002	0.002	36.10	0.000
1.111	0.002	0.002	36.10	0.000
1.222	0.002	0.002	36.10	0.000
1.333	0.002	0.003	36.10	0.000
1.444	0.002	0.003	36.10	0.000
1.555	0.002	0.003	36.10	0.000
1.666	0.002	0.003	36.10	0.000
1.777	0.002	0.004	36.10	0.000
1.888	0.002	0.004	36.10	0.000
2.000	0.002	0.004	36.10	0.000
2.111	0.002	0.004	36.10	0.000
2.222	0.002	0.005	36.10	0.000
2.333	0.002	0.005	36.10	0.000
2.444	0.002	0.005	36.10	0.000
2.555	0.002	0.005	36.10	0.000
2.666	0.002	0.006	36.10	0.000
2.777	0.002	0.006	36.10	0.000
2.888	0.002	0.006	36.10	1000
3.000	0.002	0.006	36.10	1000
3.111	0.002	0.007	36.10	1000
3.222	0.002	0.007	36.10	1000
3.333	0.002	0.007	36.10	1000
3.444	0.002	0.007	36.10	1000
3.555	0.002	0.008	36.10	1000
3.666	0.002	0.008	36.10	1000
3.777	0.002	0.008	36.10	1000
3.888	0.002	0.008	36.10	1000
4.000	0.002	0.009	36.10	1000
4.111	0.002	0.009	36.10	1000
4.222	0.002	0.009	36.10	1000
4.333	0.002	0.009	36.10	1000
4.444	0.002	0.010	36.10	1000
4.555	0.002	0.010	36.10	1000
4.666	0.002	0.010	36.10	1000
4.777	0.002	0.011	36.10	1000
4.888	0.002	0.011	36.10	1000
5.000	0.002	0.011	36.10	1000
5.111	0.002	0.011	36.10	1000

5.222	0.002	0.012	36.10	1000
5.333	0.002	0.012	36.10	1000
5.444	0.002	0.012	36.10	1000
5.555	0.002	0.012	36.10	1000
5.666	0.002	0.013	36.10	1000
5.777	0.002	0.013	36.10	1000
5.888	0.002	0.013	36.10	1000
6.000	0.002	0.013	36.10	1000
6.111	0.002	0.014	36.10	1000
6.222	0.002	0.014	36.10	1000
6.333	0.002	0.014	36.10	1000
6.444	0.002	0.014	36.10	1000
6.555	0.002	0.015	36.10	1000
6.666	0.002	0.015	36.10	1000
6.777	0.002	0.015	36.10	1000
6.888	0.002	0.015	36.10	1000
7.000	0.002	0.016	36.10	1000
7.111	0.002	0.016	36.10	1000
7.222	0.002	0.016	36.10	1000
7.333	0.002	0.016	36.10	1000
7.444	0.002	0.017	36.10	1000
7.555	0.002	0.017	36.10	1000
7.666	0.002	0.017	36.10	1000
7.777	0.002	0.017	36.10	1000
7.888	0.002	0.018	36.10	1000
8.000	0.002	0.018	36.10	1000
8.111	0.002	0.018	36.10	1000
8.222	0.002	0.018	36.10	1000
8.333	0.002	0.019	36.10	1000
8.444	0.002	0.019	36.10	1000
8.555	0.002	0.019	36.10	1000
8.666	0.002	0.019	36.10	1000
8.777	0.002	0.020	36.10	1000
8.888	0.002	0.020	36.10	1000
9.000	0.002	0.020	36.10	1000
9.111	0.002	0.020	36.10	1000
9.222	0.002	0.021	36.10	1000
9.333	0.002	0.021	36.10	1000
9.444	0.002	0.021	36.10	1000
9.555	0.002	0.021	36.10	1000
9.666	0.002	0.022	36.10	1000
9.777	0.002	0.022	36.10	1000
9.888	0.002	0.022	36.10	1000
10.00	0.002	0.023	36.10	1000
10.11	0.002	0.023	36.10	1000

Discharge Structure

Riser Height: 0 ft.

Riser Diameter: 0 in.

Element Flows To:

Outlet 1                      Outlet 2

Surface 3A-5                3A-9

**3A-11**

Bottom Length: 576.00 ft.  
 Bottom Width: 150.00 ft.  
 Depth: 5 ft.  
 Volume at riser head: 6.4079 acre-feet.  
 Side slope 1: 3 To 1  
 Side slope 2: 3 To 1  
 Side slope 3: 3 To 1  
 Side slope 4: 3 To 1  
 Discharge Structure  
 Riser Height: 3 ft.  
 Riser Diameter: 60 in.  
 Orifice 1 Diameter: 36 in. Elevation:0 ft.  
 Orifice 2 Diameter: 24 in. Elevation:0 ft.  
 Element Flows To:  
 Outlet 1                      Outlet 2

Pond Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
305.00	1.983	0.000	0.000	0.000
305.06	1.989	0.110	11.97	0.000
305.11	1.994	0.221	16.93	0.000
305.17	2.000	0.332	20.73	0.000
305.22	2.005	0.443	23.94	0.000
305.28	2.011	0.554	26.77	0.000
305.33	2.016	0.666	29.32	0.000
305.39	2.022	0.778	31.67	0.000
305.44	2.028	0.891	33.86	0.000
305.50	2.033	1.004	35.92	0.000
305.56	2.039	1.117	37.86	0.000
305.61	2.044	1.230	39.71	0.000
305.67	2.050	1.344	41.47	0.000
305.72	2.056	1.458	43.17	0.000
305.78	2.061	1.573	44.80	0.000
305.83	2.067	1.687	46.37	0.000
305.89	2.073	1.802	47.89	0.000
305.94	2.078	1.918	49.36	0.000
306.00	2.084	2.033	50.80	0.000
306.06	2.089	2.149	52.19	0.000
306.11	2.095	2.266	53.54	0.000
306.17	2.101	2.382	54.87	0.000
306.22	2.106	2.499	56.16	0.000
306.28	2.112	2.616	57.42	0.000
306.33	2.118	2.734	58.65	0.000
306.39	2.124	2.852	59.86	0.000
306.44	2.129	2.970	61.05	0.000
306.50	2.135	3.088	62.21	0.000
306.56	2.141	3.207	63.35	0.000
306.61	2.146	3.326	64.48	0.000
306.67	2.152	3.446	65.58	0.000
306.72	2.158	3.565	66.66	0.000
306.78	2.163	3.685	67.73	0.000
306.83	2.169	3.806	68.78	0.000
306.89	2.175	3.926	69.81	0.000
306.94	2.181	4.047	70.83	0.000

307.00	2.186	4.169	71.84	0.000
307.06	2.192	4.290	72.83	0.000
307.11	2.198	4.412	73.81	0.000
307.17	2.204	4.535	74.77	0.000
307.22	2.209	4.657	75.72	0.000
307.28	2.215	4.780	76.66	0.000
307.33	2.221	4.903	77.59	0.000
307.39	2.227	5.027	78.51	0.000
307.44	2.232	5.151	79.42	0.000
307.50	2.238	5.275	80.32	0.000
307.56	2.244	5.400	81.21	0.000
307.61	2.250	5.524	82.08	0.000
307.67	2.256	5.650	82.95	0.000
307.72	2.261	5.775	83.81	0.000
307.78	2.267	5.901	84.66	0.000
307.83	2.273	6.027	85.50	0.000
307.89	2.279	6.154	86.34	0.000
307.94	2.285	6.280	87.17	0.000
308.00	2.290	6.407	87.98	0.000
308.06	2.296	6.535	89.49	0.000
308.11	2.302	6.663	91.56	0.000
308.17	2.308	6.791	94.00	0.000
308.22	2.314	6.919	96.74	0.000
308.28	2.320	7.048	99.72	0.000
308.33	2.326	7.177	102.9	0.000
308.39	2.331	7.306	106.3	0.000
308.44	2.337	7.436	109.9	0.000
308.50	2.343	7.566	113.6	0.000
308.56	2.349	7.696	117.5	0.000
308.61	2.355	7.827	121.6	0.000
308.67	2.361	7.958	125.7	0.000
308.72	2.367	8.089	130.0	0.000
308.78	2.373	8.221	134.3	0.000
308.83	2.378	8.353	138.7	0.000
308.89	2.384	8.485	143.2	0.000
308.94	2.390	8.618	147.7	0.000
309.00	2.396	8.751	152.3	0.000
309.06	2.402	8.884	156.9	0.000
309.11	2.408	9.018	161.4	0.000
309.17	2.414	9.152	166.0	0.000
309.22	2.420	9.286	170.5	0.000
309.28	2.426	9.421	175.0	0.000
309.33	2.432	9.556	179.4	0.000
309.39	2.438	9.691	183.7	0.000
309.44	2.444	9.827	188.0	0.000
309.50	2.450	9.963	192.1	0.000
309.56	2.456	10.10	196.1	0.000
309.61	2.462	10.23	200.0	0.000
309.67	2.468	10.37	203.8	0.000
309.72	2.474	10.51	207.4	0.000
309.78	2.480	10.64	210.9	0.000
309.83	2.486	10.78	214.2	0.000
309.89	2.492	10.92	217.3	0.000
309.94	2.498	11.06	220.3	0.000
310.00	2.504	11.20	223.1	0.000
310.06	2.510	11.34	225.8	0.000

## Flow Splitter 5

Bottom Length: 10.00 ft.  
 Bottom Length: 10.00 ft.  
 Depth: 10 ft.  
 Side slope 1: 0 To 1  
 Side slope 2: 0 To 1  
 Side slope 3: 0 To 1  
 Side slope 4: 0 To 1

Threshold Splitter Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Primary(cfs)	Secondary(cfs)
0.000	0.002	0.000	3.600	0.000
0.111	0.002	0.000	3.600	0.000
0.222	0.002	0.000	3.600	0.000
0.333	0.002	0.000	3.600	0.000
0.444	0.002	0.001	3.600	0.000
0.555	0.002	0.001	3.600	0.000
0.666	0.002	0.001	3.600	0.000
0.777	0.002	0.001	3.600	0.000
0.888	0.002	0.002	3.600	0.000
1.000	0.002	0.002	3.600	0.000
1.111	0.002	0.002	3.600	0.000
1.222	0.002	0.002	3.600	0.000
1.333	0.002	0.003	3.600	0.000
1.444	0.002	0.003	3.600	0.000
1.555	0.002	0.003	3.600	0.000
1.666	0.002	0.003	3.600	0.000
1.777	0.002	0.004	3.600	0.000
1.888	0.002	0.004	3.600	0.000
2.000	0.002	0.004	3.600	0.000
2.111	0.002	0.004	3.600	0.000
2.222	0.002	0.005	3.600	0.000
2.333	0.002	0.005	3.600	0.000
2.444	0.002	0.005	3.600	0.000
2.555	0.002	0.005	3.600	0.000
2.666	0.002	0.006	3.600	0.000
2.777	0.002	0.006	3.600	0.000
2.888	0.002	0.006	3.600	1000
3.000	0.002	0.006	3.600	1000
3.111	0.002	0.007	3.600	1000
3.222	0.002	0.007	3.600	1000
3.333	0.002	0.007	3.600	1000
3.444	0.002	0.007	3.600	1000
3.555	0.002	0.008	3.600	1000
3.666	0.002	0.008	3.600	1000
3.777	0.002	0.008	3.600	1000
3.888	0.002	0.008	3.600	1000
4.000	0.002	0.009	3.600	1000
4.111	0.002	0.009	3.600	1000
4.222	0.002	0.009	3.600	1000
4.333	0.002	0.009	3.600	1000
4.444	0.002	0.010	3.600	1000
4.555	0.002	0.010	3.600	1000
4.666	0.002	0.010	3.600	1000
4.777	0.002	0.011	3.600	1000
4.888	0.002	0.011	3.600	1000
5.000	0.002	0.011	3.600	1000
5.111	0.002	0.011	3.600	1000



5.222	0.002	0.012	3.600	1000
5.333	0.002	0.012	3.600	1000
5.444	0.002	0.012	3.600	1000
5.555	0.002	0.012	3.600	1000
5.666	0.002	0.013	3.600	1000
5.777	0.002	0.013	3.600	1000
5.888	0.002	0.013	3.600	1000
6.000	0.002	0.013	3.600	1000
6.111	0.002	0.014	3.600	1000
6.222	0.002	0.014	3.600	1000
6.333	0.002	0.014	3.600	1000
6.444	0.002	0.014	3.600	1000
6.555	0.002	0.015	3.600	1000
6.666	0.002	0.015	3.600	1000
6.777	0.002	0.015	3.600	1000
6.888	0.002	0.015	3.600	1000
7.000	0.002	0.016	3.600	1000
7.111	0.002	0.016	3.600	1000
7.222	0.002	0.016	3.600	1000
7.333	0.002	0.016	3.600	1000
7.444	0.002	0.017	3.600	1000
7.555	0.002	0.017	3.600	1000
7.666	0.002	0.017	3.600	1000
7.777	0.002	0.017	3.600	1000
7.888	0.002	0.018	3.600	1000
8.000	0.002	0.018	3.600	1000
8.111	0.002	0.018	3.600	1000
8.222	0.002	0.018	3.600	1000
8.333	0.002	0.019	3.600	1000
8.444	0.002	0.019	3.600	1000
8.555	0.002	0.019	3.600	1000
8.666	0.002	0.019	3.600	1000
8.777	0.002	0.020	3.600	1000
8.888	0.002	0.020	3.600	1000
9.000	0.002	0.020	3.600	1000
9.111	0.002	0.020	3.600	1000
9.222	0.002	0.021	3.600	1000
9.333	0.002	0.021	3.600	1000
9.444	0.002	0.021	3.600	1000
9.555	0.002	0.021	3.600	1000
9.666	0.002	0.022	3.600	1000
9.777	0.002	0.022	3.600	1000
9.888	0.002	0.022	3.600	1000
10.00	0.002	0.023	3.600	1000
10.11	0.002	0.023	3.600	1000

Discharge Structure

Riser Height: 0 ft.

Riser Diameter: 0 in.

Element Flows To:

Outlet 1                      Outlet 2

Surface 3A-8

## Flow Splitter 6

Bottom Length: 10.00 ft.  
 Bottom Length: 10.00 ft.  
 Depth: 10 ft.  
 Side slope 1: 0 To 1  
 Side slope 2: 0 To 1  
 Side slope 3: 0 To 1  
 Side slope 4: 0 To 1

Threshold Splitter Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Primary(cfs)	Secondary(cfs)
0.000	0.002	0.000	0.700	0.000
0.111	0.002	0.000	0.700	0.000
0.222	0.002	0.000	0.700	0.000
0.333	0.002	0.000	0.700	0.000
0.444	0.002	0.001	0.700	0.000
0.555	0.002	0.001	0.700	0.000
0.666	0.002	0.001	0.700	0.000
0.777	0.002	0.001	0.700	0.000
0.888	0.002	0.002	0.700	0.000
1.000	0.002	0.002	0.700	0.000
1.111	0.002	0.002	0.700	0.000
1.222	0.002	0.002	0.700	0.000
1.333	0.002	0.003	0.700	0.000
1.444	0.002	0.003	0.700	0.000
1.555	0.002	0.003	0.700	0.000
1.666	0.002	0.003	0.700	0.000
1.777	0.002	0.004	0.700	0.000
1.888	0.002	0.004	0.700	0.000
2.000	0.002	0.004	0.700	0.000
2.111	0.002	0.004	0.700	0.000
2.222	0.002	0.005	0.700	0.000
2.333	0.002	0.005	0.700	0.000
2.444	0.002	0.005	0.700	0.000
2.555	0.002	0.005	0.700	0.000
2.666	0.002	0.006	0.700	0.000
2.777	0.002	0.006	0.700	0.000
2.888	0.002	0.006	0.700	1000
3.000	0.002	0.006	0.700	1000
3.111	0.002	0.007	0.700	1000
3.222	0.002	0.007	0.700	1000
3.333	0.002	0.007	0.700	1000
3.444	0.002	0.007	0.700	1000
3.555	0.002	0.008	0.700	1000
3.666	0.002	0.008	0.700	1000
3.777	0.002	0.008	0.700	1000
3.888	0.002	0.008	0.700	1000
4.000	0.002	0.009	0.700	1000
4.111	0.002	0.009	0.700	1000
4.222	0.002	0.009	0.700	1000
4.333	0.002	0.009	0.700	1000
4.444	0.002	0.010	0.700	1000
4.555	0.002	0.010	0.700	1000
4.666	0.002	0.010	0.700	1000
4.777	0.002	0.011	0.700	1000
4.888	0.002	0.011	0.700	1000
5.000	0.002	0.011	0.700	1000
5.111	0.002	0.011	0.700	1000

5.222	0.002	0.012	0.700	1000
5.333	0.002	0.012	0.700	1000
5.444	0.002	0.012	0.700	1000
5.555	0.002	0.012	0.700	1000
5.666	0.002	0.013	0.700	1000
5.777	0.002	0.013	0.700	1000
5.888	0.002	0.013	0.700	1000
6.000	0.002	0.013	0.700	1000
6.111	0.002	0.014	0.700	1000
6.222	0.002	0.014	0.700	1000
6.333	0.002	0.014	0.700	1000
6.444	0.002	0.014	0.700	1000
6.555	0.002	0.015	0.700	1000
6.666	0.002	0.015	0.700	1000
6.777	0.002	0.015	0.700	1000
6.888	0.002	0.015	0.700	1000
7.000	0.002	0.016	0.700	1000
7.111	0.002	0.016	0.700	1000
7.222	0.002	0.016	0.700	1000
7.333	0.002	0.016	0.700	1000
7.444	0.002	0.017	0.700	1000
7.555	0.002	0.017	0.700	1000
7.666	0.002	0.017	0.700	1000
7.777	0.002	0.017	0.700	1000
7.888	0.002	0.018	0.700	1000
8.000	0.002	0.018	0.700	1000
8.111	0.002	0.018	0.700	1000
8.222	0.002	0.018	0.700	1000
8.333	0.002	0.019	0.700	1000
8.444	0.002	0.019	0.700	1000
8.555	0.002	0.019	0.700	1000
8.666	0.002	0.019	0.700	1000
8.777	0.002	0.020	0.700	1000
8.888	0.002	0.020	0.700	1000
9.000	0.002	0.020	0.700	1000
9.111	0.002	0.020	0.700	1000
9.222	0.002	0.021	0.700	1000
9.333	0.002	0.021	0.700	1000
9.444	0.002	0.021	0.700	1000
9.555	0.002	0.021	0.700	1000
9.666	0.002	0.022	0.700	1000
9.777	0.002	0.022	0.700	1000
9.888	0.002	0.022	0.700	1000
10.00	0.002	0.023	0.700	1000
10.11	0.002	0.023	0.700	1000

Discharge Structure

Riser Height: 0 ft.

Riser Diameter: 0 in.

Element Flows To:

Outlet 1                      Outlet 2

Surface 3A-12

3A-8

Bottom Length:	107.50 ft.
Bottom Width:	153.00 ft.
Material thickness of first layer:	1.5
Material type for first layer:	Amended 2.5 in/hr
Material thickness of second layer:	1.5
Material type for second layer:	Amended 2.5 in/hr
Material thickness of third layer:	1.5
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.1
Infiltration safety factor:	1
Total Volume Infiltrated (ac-ft.):	183.526
Total Volume Through Riser (ac-ft.):	77.581
Total Volume Through Facility (ac-ft.):	872.793
Percent Infiltrated:	21.03
Total Precip Applied to Facility:	29.382
Total Evap From Facility:	22.909
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	6
Offset (in.):	3
Flow Through Underdrain (ac-ft.):	611.686
Total Outflow (ac-ft.):	872.793
Percent Through Underdrain:	70.08
Discharge Structure	
Riser Height:	1.5 ft.
Riser Diameter:	18 in.
Element Flows To:	
Outlet 1	Outlet 2

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
345.00	0.3776	0.0000	0.0000	0.0000
345.08	0.3776	0.0113	0.0000	0.0000
345.15	0.3776	0.0227	0.0000	0.0000
345.23	0.3776	0.0340	0.0000	0.0000
345.31	0.3776	0.0453	0.0000	0.0000
345.38	0.3776	0.0566	0.0000	0.0000
345.46	0.3776	0.0680	0.0000	0.0000
345.54	0.3776	0.0793	0.0166	0.0166
345.62	0.3776	0.0906	0.0166	0.0166
345.69	0.3776	0.1019	0.0203	0.0203
345.77	0.3776	0.1133	0.0251	0.0251
345.85	0.3776	0.1246	0.0310	0.0310
345.92	0.3776	0.1359	0.0310	0.0310
346.00	0.3776	0.1473	0.0381	0.0381
346.08	0.3776	0.1586	0.0381	0.0381
346.15	0.3776	0.1699	0.0381	0.0381
346.23	0.3776	0.1812	0.0381	0.0381
346.31	0.3776	0.1926	0.0381	0.0381
346.38	0.3776	0.2039	0.0381	0.0381
346.46	0.3776	0.2152	0.0381	0.0381
346.54	0.3776	0.2265	0.0381	0.0381
346.62	0.3776	0.2379	0.0381	0.0381

346.69	0.3776	0.2492	0.0381	0.0381
346.77	0.3776	0.2605	0.0381	0.0381
346.85	0.3776	0.2719	0.0381	0.0381
346.92	0.3776	0.2832	0.0381	0.0381
347.00	0.3776	0.2945	0.0381	0.0381
347.08	0.3776	0.3058	0.0381	0.0381
347.15	0.3776	0.3172	0.0381	0.0381
347.23	0.3776	0.3285	0.0381	0.0381
347.31	0.3776	0.3398	0.0381	0.0381
347.38	0.3776	0.3512	0.0381	0.0381
347.46	0.3776	0.3625	0.0381	0.0381
347.54	0.3776	0.3738	0.0381	0.0381
347.62	0.3776	0.3851	0.0381	0.0381
347.69	0.3776	0.3965	0.0381	0.0381
347.77	0.3776	0.4078	0.0381	0.0381
347.85	0.3776	0.4191	0.0381	0.0381
347.92	0.3776	0.4304	0.0381	0.0381
348.00	0.3776	0.4425	0.0381	0.0381
348.08	0.3776	0.4546	0.0381	0.0381
348.15	0.3776	0.4666	0.0381	0.0381
348.23	0.3776	0.4787	0.0381	0.0381
348.31	0.3776	0.4907	0.0381	0.0381
348.38	0.3776	0.5028	0.0381	0.0381
348.46	0.3776	0.5148	0.0381	0.0381
348.54	0.3776	0.5269	0.0381	0.0381
348.62	0.3776	0.5389	0.0381	0.0381
348.69	0.3776	0.5510	0.0381	0.0381
348.77	0.3776	0.5630	0.0381	0.0381
348.85	0.3776	0.5751	0.0381	0.0381
348.92	0.3776	0.5871	0.0381	0.0381
349.00	0.3776	0.5992	0.0381	0.0381
349.08	0.3776	0.6112	0.0381	0.0381
349.15	0.3776	0.6233	0.0381	0.0381
349.23	0.3776	0.6354	0.0381	0.0381
349.31	0.3776	0.6474	0.0381	0.0381
349.38	0.3776	0.6595	0.0381	0.0381
349.46	0.3776	0.6715	0.0381	0.0381
349.50	0.3776	0.6775	0.0381	0.0381

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infil(cfs)
4.5000	0.3776	0.6775	0.0000	0.9787	0.0000
4.5769	0.3803	0.7067	0.0000	0.9787	0.0000
4.6538	0.3831	0.7361	0.0000	0.9787	0.0000
4.7308	0.3859	0.7656	0.0000	0.9787	0.0000
4.8077	0.3887	0.7954	0.0000	0.9787	0.0000
4.8846	0.3915	0.8254	0.0000	0.9787	0.0000
4.9615	0.3943	0.8557	0.0000	0.9787	0.0000
5.0385	0.3971	0.8861	0.0000	0.9787	0.0000
5.1154	0.4000	0.9168	0.0000	0.9787	0.0000
5.1923	0.4028	0.9476	0.0000	0.9787	0.0000
5.2692	0.4057	0.9787	0.0000	0.9787	0.0000
5.3462	0.4085	1.0100	0.0000	0.9787	0.0000
5.4231	0.4114	1.0416	0.0000	0.9787	0.0000
5.5000	0.4143	1.0733	0.0000	0.9787	0.0000
5.5769	0.4172	1.1053	0.0000	0.9787	0.0000
5.6538	0.4201	1.1375	0.0000	0.9787	0.0000
5.7308	0.4230	1.1700	0.0000	0.9787	0.0000

5.8077	0.4259	1.2026	0.0000	0.9787	0.0000
5.8846	0.4288	1.2355	0.0000	0.9787	0.0000
5.9615	0.4318	1.2686	0.0673	0.9787	0.0000
6.0385	0.4347	1.3019	0.0673	0.9787	0.0000
6.1154	0.4377	1.3355	0.0818	0.9787	0.0000
6.1923	0.4407	1.3692	0.0886	0.9787	0.0000
6.2692	0.4437	1.4033	0.1233	0.9787	0.0000
6.3462	0.4466	1.4375	0.1405	0.9787	0.0000
6.4231	0.4496	1.4720	0.1592	0.9787	0.0000
6.5000	0.4527	1.5067	0.1793	0.9787	0.0000
6.5769	0.4557	1.5416	0.1977	0.9787	0.0000
6.6538	0.4587	1.5768	0.2069	0.9787	0.0000
6.7308	0.4617	1.6122	0.2484	0.9787	0.0000
6.8077	0.4648	1.6478	0.2563	0.9787	0.0000
6.8846	0.4678	1.6837	0.2917	0.9787	0.0000
6.9615	0.4709	1.7198	0.3185	0.9787	0.0000
7.0000	0.4725	1.7379	0.3335	0.9787	0.0000

## Surface 3A-8

Element Flows To:

Outlet 1

Outlet 2  
3A-8

3A-12

Bottom Length:	46.00 ft.
Bottom Width:	75.00 ft.
Material thickness of first layer:	1.5
Material type for first layer:	Amended 2.5 in/hr
Material thickness of second layer:	1.5
Material type for second layer:	Amended 2.5 in/hr
Material thickness of third layer:	1.5
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.1
Infiltration safety factor:	1
Total Volume Infiltrated (ac-ft.):	35.596
Total Volume Through Riser (ac-ft.):	12.293
Total Volume Through Facility (ac-ft.):	172.792
Percent Infiltrated:	20.6
Total Precip Applied to Facility:	6.485
Total Evap From Facility:	4.439
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	6
Offset (in.):	3
Flow Through Underdrain (ac-ft.):	124.903
Total Outflow (ac-ft.):	172.792
Percent Through Underdrain:	72.29
Discharge Structure	
Riser Height:	1.5 ft.
Riser Diameter:	18 in.
Element Flows To:	
Outlet 1	Outlet 2

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
345.00	0.0792	0.0000	0.0000	0.0000
345.08	0.0792	0.0024	0.0000	0.0000
345.15	0.0792	0.0048	0.0000	0.0000
345.23	0.0792	0.0071	0.0000	0.0000
345.31	0.0792	0.0095	0.0000	0.0000
345.38	0.0792	0.0119	0.0000	0.0000
345.46	0.0792	0.0143	0.0000	0.0000
345.54	0.0792	0.0166	0.0035	0.0035
345.62	0.0792	0.0190	0.0035	0.0035
345.69	0.0792	0.0214	0.0042	0.0042
345.77	0.0792	0.0238	0.0053	0.0053
345.85	0.0792	0.0261	0.0065	0.0065
345.92	0.0792	0.0285	0.0065	0.0065
346.00	0.0792	0.0309	0.0080	0.0080
346.08	0.0792	0.0333	0.0080	0.0080
346.15	0.0792	0.0356	0.0080	0.0080
346.23	0.0792	0.0380	0.0080	0.0080
346.31	0.0792	0.0404	0.0080	0.0080
346.38	0.0792	0.0428	0.0080	0.0080
346.46	0.0792	0.0451	0.0080	0.0080
346.54	0.0792	0.0475	0.0080	0.0080
346.62	0.0792	0.0499	0.0080	0.0080



346.69	0.0792	0.0523	0.0080	0.0080
346.77	0.0792	0.0546	0.0080	0.0080
346.85	0.0792	0.0570	0.0080	0.0080
346.92	0.0792	0.0594	0.0080	0.0080
347.00	0.0792	0.0618	0.0080	0.0080
347.08	0.0792	0.0642	0.0080	0.0080
347.15	0.0792	0.0665	0.0080	0.0080
347.23	0.0792	0.0689	0.0080	0.0080
347.31	0.0792	0.0713	0.0080	0.0080
347.38	0.0792	0.0737	0.0080	0.0080
347.46	0.0792	0.0760	0.0080	0.0080
347.54	0.0792	0.0784	0.0080	0.0080
347.62	0.0792	0.0808	0.0080	0.0080
347.69	0.0792	0.0832	0.0080	0.0080
347.77	0.0792	0.0855	0.0080	0.0080
347.85	0.0792	0.0879	0.0080	0.0080
347.92	0.0792	0.0903	0.0080	0.0080
348.00	0.0792	0.0928	0.0080	0.0080
348.08	0.0792	0.0953	0.0080	0.0080
348.15	0.0792	0.0979	0.0080	0.0080
348.23	0.0792	0.1004	0.0080	0.0080
348.31	0.0792	0.1029	0.0080	0.0080
348.38	0.0792	0.1055	0.0080	0.0080
348.46	0.0792	0.1080	0.0080	0.0080
348.54	0.0792	0.1105	0.0080	0.0080
348.62	0.0792	0.1130	0.0080	0.0080
348.69	0.0792	0.1156	0.0080	0.0080
348.77	0.0792	0.1181	0.0080	0.0080
348.85	0.0792	0.1206	0.0080	0.0080
348.92	0.0792	0.1232	0.0080	0.0080
349.00	0.0792	0.1257	0.0080	0.0080
349.08	0.0792	0.1282	0.0080	0.0080
349.15	0.0792	0.1307	0.0080	0.0080
349.23	0.0792	0.1333	0.0080	0.0080
349.31	0.0792	0.1358	0.0080	0.0080
349.38	0.0792	0.1383	0.0080	0.0080
349.46	0.0792	0.1409	0.0080	0.0080
349.50	0.0792	0.1421	0.0080	0.0080

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infil(cfs)
4.5000	0.0792	0.1421	0.0000	0.2096	0.0000
4.5769	0.0805	0.1483	0.0000	0.2096	0.0000
4.6538	0.0818	0.1545	0.0000	0.2108	0.0000
4.7308	0.0831	0.1608	0.0000	0.2108	0.0000
4.8077	0.0844	0.1673	0.0000	0.2108	0.0000
4.8846	0.0857	0.1738	0.0000	0.2108	0.0000
4.9615	0.0871	0.1805	0.0000	0.2108	0.0000
5.0385	0.0884	0.1872	0.0000	0.2108	0.0000
5.1154	0.0898	0.1941	0.0000	0.2108	0.0000
5.1923	0.0911	0.2010	0.0000	0.2108	0.0000
5.2692	0.0925	0.2081	0.0000	0.2108	0.0000
5.3462	0.0939	0.2153	0.0000	0.2108	0.0000
5.4231	0.0953	0.2225	0.0000	0.2108	0.0000
5.5000	0.0967	0.2299	0.0000	0.2108	0.0000
5.5769	0.0981	0.2374	0.0000	0.2108	0.0000
5.6538	0.0995	0.2450	0.0000	0.2108	0.0000
5.7308	0.1010	0.2527	0.0000	0.2108	0.0000

5.8077	0.1024	0.2606	0.0000	0.2108	0.0000
5.8846	0.1039	0.2685	0.0000	0.2108	0.0000
5.9615	0.1053	0.2765	0.0182	0.2108	0.0000
6.0385	0.1068	0.2847	0.0182	0.2108	0.0000
6.1154	0.1083	0.2930	0.0245	0.2108	0.0000
6.1923	0.1098	0.3014	0.0245	0.2108	0.0000
6.2692	0.1113	0.3099	0.0320	0.2108	0.0000
6.3462	0.1128	0.3185	0.0320	0.2108	0.0000
6.4231	0.1143	0.3272	0.0408	0.2108	0.0000
6.5000	0.1158	0.3361	0.0408	0.2108	0.0000
6.5769	0.1174	0.3450	0.0510	0.2108	0.0000
6.6538	0.1189	0.3541	0.0510	0.2108	0.0000
6.7308	0.1205	0.3633	0.0627	0.2108	0.0000
6.8077	0.1221	0.3727	0.0627	0.2108	0.0000
6.8846	0.1236	0.3821	0.0758	0.2108	0.0000
6.9615	0.1252	0.3917	0.0758	0.2108	0.0000
7.0000	0.1260	0.3965	0.0860	0.2108	0.0000

## Surface 3A-12

Element Flows To:

Outlet 1

Outlet 2  
3A-12

3A-7

Bottom Length:	390.50 ft.
Bottom Width:	121.00 ft.
Material thickness of first layer:	1.5
Material type for first layer:	Amended 2.5 in/hr
Material thickness of second layer:	1.5
Material type for second layer:	Amended 2.5 in/hr
Material thickness of third layer:	1.5
Material type for third layer:	GRAVEL
Infiltration On	
Infiltration rate:	0.1
Infiltration safety factor:	1
Total Volume Infiltrated (ac-ft.):	596.937
Total Volume Through Riser (ac-ft.):	2820.268
Total Volume Through Facility (ac-ft.):	6134.033
Percent Infiltrated:	9.73
Total Precip Applied to Facility:	53.488
Total Evap From Facility:	47.876
Underdrain used	
Underdrain Diameter (feet):	0.5
Orifice Diameter (in.):	6
Offset (in.):	3
Flow Through Underdrain (ac-ft.):	2716.828
Total Outflow (ac-ft.):	6134.033
Percent Through Underdrain:	44.29
Discharge Structure	
Riser Height:	3.5 ft.
Riser Diameter:	48 in.
Orifice 1 Diameter:	12 in.
Element Flows To:	Elevation:1.5 ft.
Outlet 1	Outlet 2

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	Infilt(cfs)
355.00	1.0847	0.0000	0.0000	0.0000
355.10	1.0847	0.0418	0.0000	0.0000
355.20	1.0847	0.0837	0.0000	0.0000
355.30	1.0847	0.1255	0.0000	0.0000
355.40	1.0847	0.1674	0.0000	0.0000
355.49	1.0847	0.2092	0.0000	0.0000
355.59	1.0847	0.2510	0.0000	0.0000
355.69	1.0847	0.2929	0.0677	0.0677
355.79	1.0847	0.3347	0.0677	0.0677
355.89	1.0847	0.3766	0.0892	0.0892
355.99	1.0847	0.4184	0.1094	0.1094
356.09	1.0847	0.4602	0.1094	0.1094
356.19	1.0847	0.5021	0.1094	0.1094
356.29	1.0847	0.5439	0.1094	0.1094
356.38	1.0847	0.5858	0.1094	0.1094
356.48	1.0847	0.6276	0.1094	0.1094
356.58	1.0847	0.6694	0.1094	0.1094
356.68	1.0847	0.7113	0.1094	0.1094
356.78	1.0847	0.7531	0.1094	0.1094
356.88	1.0847	0.7949	0.1094	0.1094
356.98	1.0847	0.8368	0.1094	0.1094

357.08	1.0847	0.8786	0.1094	0.1094
357.18	1.0847	0.9205	0.1094	0.1094
357.27	1.0847	0.9623	0.1094	0.1094
357.37	1.0847	1.0041	0.1094	0.1094
357.47	1.0847	1.0460	0.1094	0.1094
357.57	1.0847	1.0878	0.1094	0.1094
357.67	1.0847	1.1297	0.1094	0.1094
357.77	1.0847	1.1715	0.1094	0.1094
357.87	1.0847	1.2133	0.1094	0.1094
357.97	1.0847	1.2552	0.1094	0.1094
358.07	1.0847	1.2997	0.1094	0.1094
358.16	1.0847	1.3442	0.1094	0.1094
358.26	1.0847	1.3887	0.1094	0.1094
358.36	1.0847	1.4333	0.1094	0.1094
358.46	1.0847	1.4778	0.1094	0.1094
358.56	1.0847	1.5223	0.1094	0.1094
358.66	1.0847	1.5668	0.1094	0.1094
358.76	1.0847	1.6113	0.1094	0.1094
358.86	1.0847	1.6559	0.1094	0.1094
358.96	1.0847	1.7004	0.1094	0.1094
359.05	1.0847	1.7449	0.1094	0.1094
359.15	1.0847	1.7894	0.1094	0.1094
359.25	1.0847	1.8340	0.1094	0.1094
359.35	1.0847	1.8785	0.1094	0.1094
359.45	1.0847	1.9230	0.1094	0.1094
359.50	1.0847	1.9453	0.1094	0.1094

Landscape Swale Hydraulic Table

Stage(feet)	Area(ac.)	Volume(ac-ft.)	Discharge(cfs)	To Amended(cfs)	Infil(cfs)
4.5000	1.0847	1.9453	0.0000	1.1180	0.0000
4.5989	1.0917	2.0529	0.0000	1.1180	0.0000
4.6978	1.0987	2.1612	0.0000	1.1180	0.0000
4.7967	1.1057	2.2702	0.0000	1.1180	0.0000
4.8956	1.1127	2.3799	0.0000	1.1180	0.0000
4.9945	1.1198	2.4903	0.0000	1.1180	0.0000
5.0934	1.1268	2.6014	0.0000	1.1180	0.0000
5.1923	1.1339	2.7132	0.0000	1.1180	0.0000
5.2912	1.1410	2.8257	0.0000	1.1180	0.0000
5.3901	1.1481	2.9389	0.0000	1.1180	0.0000
5.4890	1.1552	3.0528	0.0000	1.1180	0.0000
5.5879	1.1623	3.1674	0.0000	1.1180	0.0000
5.6868	1.1695	3.2827	0.0000	1.1180	0.0000
5.7857	1.1767	3.3987	0.0000	1.1180	0.0000
5.8846	1.1839	3.5155	0.0000	1.1180	0.0000
5.9835	1.1911	3.6329	0.0000	1.1180	0.0000
6.0824	1.1983	3.7510	0.0000	1.1180	0.0000
6.1813	1.2055	3.8699	0.1080	1.1180	0.0000
6.2802	1.2128	3.9895	0.1621	1.1180	0.0000
6.3791	1.2200	4.1098	0.2349	1.1180	0.0000
6.4780	1.2273	4.2308	0.2714	1.1180	0.0000
6.5769	1.2346	4.3526	0.3245	1.1180	0.0000
6.6758	1.2419	4.4750	0.3511	1.1180	0.0000
6.7747	1.2493	4.5982	0.3938	1.1180	0.0000
6.8736	1.2566	4.7221	0.4152	1.1180	0.0000
6.9725	1.2640	4.8468	0.4517	1.1180	0.0000
7.0714	1.2714	4.9722	0.4700	1.1180	0.0000
7.1703	1.2788	5.0983	0.5025	1.1180	0.0000
7.2692	1.2862	5.2251	0.5188	1.1180	0.0000

7.3681	1.2936	5.3527	0.5483	1.1180	0.0000
7.4670	1.3010	5.4810	0.5631	1.1180	0.0000
7.5659	1.3085	5.6100	0.5905	1.1180	0.0000
7.6648	1.3160	5.7398	0.6042	1.1180	0.0000
7.7637	1.3235	5.8703	0.6298	1.1180	0.0000
7.8626	1.3310	6.0016	0.6426	1.1180	0.0000
7.9615	1.3385	6.1336	0.6667	1.1180	0.0000
8.0604	1.3460	6.2664	0.6788	1.1180	0.0000
8.1593	1.3536	6.3999	0.7017	1.1180	0.0000
8.2582	1.3612	6.5341	0.7131	1.1180	0.0000
8.3571	1.3688	6.6691	0.7349	1.1180	0.0000
8.4560	1.3764	6.8048	0.7663	1.1180	0.0000
8.5549	1.3840	6.9413	0.8109	1.1180	0.0000
8.6538	1.3916	7.0786	0.8603	1.1180	0.0000
8.7527	1.3993	7.2166	0.9106	1.1180	0.0000
8.8516	1.4070	7.3554	0.9602	1.1180	0.0000
8.9505	1.4147	7.4949	1.0087	1.1180	0.0000
9.0000	1.4185	7.5650	2.0140	1.1180	0.0000

Surface 3A-7

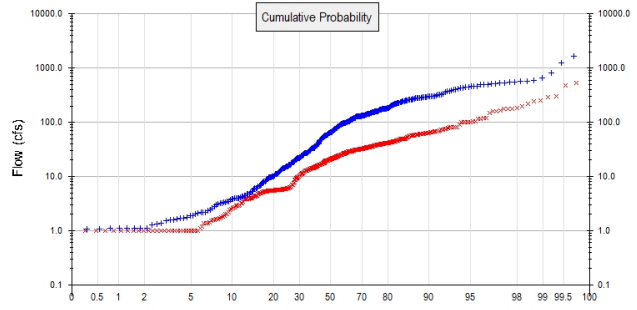
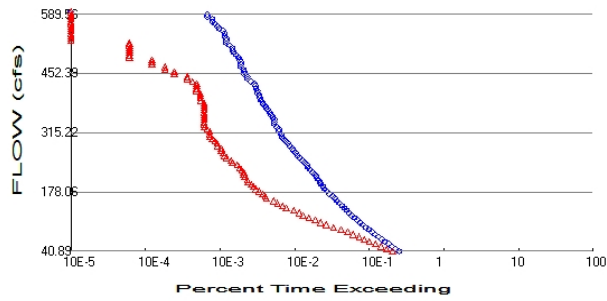
Element Flows To:

Outlet 1

Outlet 2  
3A-7

# Analysis Results

## POC 1



+ Predeveloped    x Mitigated

### Predeveloped Landuse Totals for POC #1

Total Pervious Area: 487.5  
 Total Impervious Area: 0

### Mitigated Landuse Totals for POC #1

Total Pervious Area: 190.9  
 Total Impervious Area: 296.6

Flow Frequency Method: Cunnane

### Flow Frequency Return Periods for Predeveloped. POC #1

Return Period	Flow(cfs)
2 year	408.886993
5 year	537.800758
10 year	589.556582
25 year	1071.739946

### Flow Frequency Return Periods for Mitigated. POC #1

Return Period	Flow(cfs)
2 year	101.182831
5 year	180.63854
10 year	254.273644
25 year	401.632504



## Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
40.8887	4120	3380	82	Pass
46.4308	3645	2812	77	Pass
51.9729	3289	2380	72	Pass
57.5150	2960	1992	67	Pass
63.0571	2655	1651	62	Pass
68.5992	2398	1404	58	Pass
74.1413	2161	1210	55	Pass
79.6834	1974	1006	50	Pass
85.2255	1788	844	47	Pass
90.7676	1625	686	42	Pass
96.3097	1463	546	37	Pass
101.8518	1338	436	32	Pass
107.3939	1230	367	29	Pass
112.9360	1127	312	27	Pass
118.4781	1041	256	24	Pass
124.0202	958	212	22	Pass
129.5623	872	190	21	Pass
135.1044	815	160	19	Pass
140.6465	766	127	16	Pass
146.1886	715	113	15	Pass
151.7307	659	97	14	Pass
157.2728	609	86	14	Pass
162.8149	562	69	12	Pass
168.3570	527	66	12	Pass
173.8991	477	61	12	Pass
179.4412	444	55	12	Pass
184.9833	417	50	11	Pass
190.5254	394	46	11	Pass
196.0675	370	43	11	Pass
201.6096	356	39	10	Pass
207.1517	336	38	11	Pass
212.6938	320	35	10	Pass
218.2359	302	34	11	Pass
223.7780	283	34	12	Pass
229.3201	263	32	12	Pass
234.8622	250	30	12	Pass
240.4043	238	28	11	Pass
245.9464	225	24	10	Pass
251.4885	211	23	10	Pass
257.0306	192	20	10	Pass
262.5727	178	19	10	Pass
268.1148	170	18	10	Pass
273.6569	159	17	10	Pass
279.1990	153	17	11	Pass
284.7411	141	15	10	Pass
290.2832	134	15	11	Pass
295.8253	125	14	11	Pass
301.3674	117	13	11	Pass
306.9095	110	12	10	Pass
312.4516	108	12	11	Pass
317.9937	102	12	11	Pass
323.5358	100	11	11	Pass
329.0779	95	10	10	Pass

334.6200	89	10	11	Pass
340.1621	88	10	11	Pass
345.7042	87	10	11	Pass
351.2463	84	10	11	Pass
356.7884	80	10	12	Pass
362.3305	76	10	13	Pass
367.8726	71	10	14	Pass
373.4147	68	10	14	Pass
378.9568	65	10	15	Pass
384.4989	61	10	16	Pass
390.0410	58	9	15	Pass
395.5831	56	9	16	Pass
401.1252	55	9	16	Pass
406.6673	53	9	16	Pass
412.2094	52	8	15	Pass
417.7515	50	8	16	Pass
423.2936	49	8	16	Pass
428.8357	47	8	17	Pass
434.3778	43	7	16	Pass
439.9199	38	6	15	Pass
445.4620	38	6	15	Pass
451.0041	35	4	11	Pass
456.5462	35	4	11	Pass
462.0883	34	3	8	Pass
467.6304	31	3	9	Pass
473.1725	31	2	6	Pass
478.7146	31	2	6	Pass
484.2567	30	2	6	Pass
489.7988	29	1	3	Pass
495.3409	27	1	3	Pass
500.8830	25	1	4	Pass
506.4251	24	1	4	Pass
511.9672	24	1	4	Pass
517.5093	22	1	4	Pass
523.0514	20	1	5	Pass
528.5935	20	0	0	Pass
534.1356	20	0	0	Pass
539.6777	19	0	0	Pass
545.2198	19	0	0	Pass
550.7619	18	0	0	Pass
556.3040	16	0	0	Pass
561.8461	15	0	0	Pass
567.3882	14	0	0	Pass
572.9303	13	0	0	Pass
578.4724	13	0	0	Pass
584.0145	11	0	0	Pass
589.5566	11	0	0	Pass

## Water Quality

## POC 2

POC #2 was not reported because POC must exist in both scenarios and both scenarios must have been run.

### POC 3

POC #3 was not reported because POC must exist in both scenarios and both scenarios must have been run.

## *Model Default Modifications*

Total of 0 changes have been made.

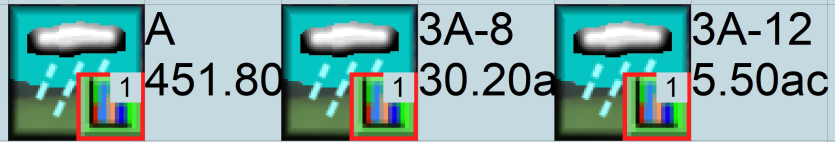
### *PERLND Changes*

No PERLND changes have been made.

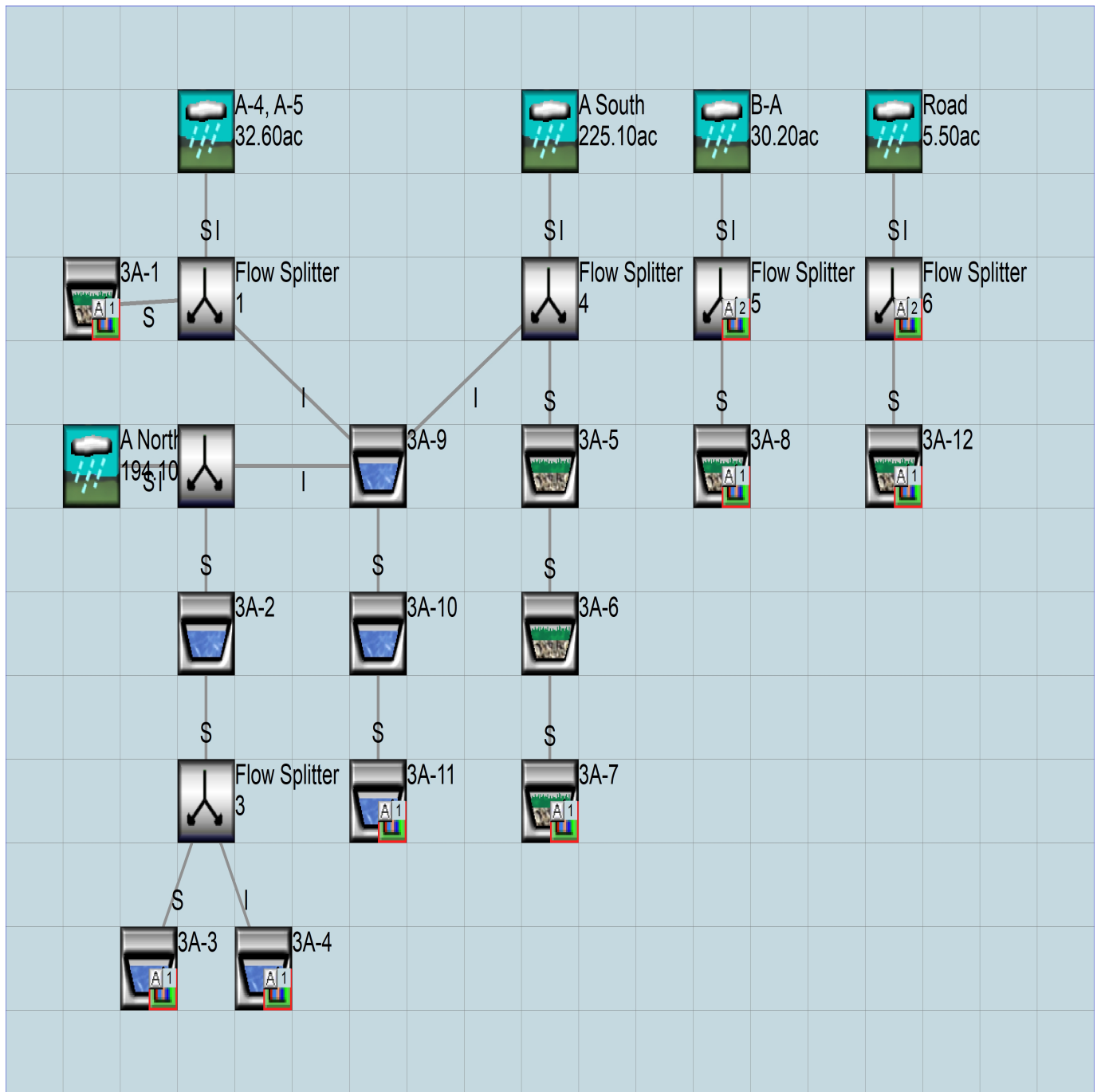
### *IMPLND Changes*

No IMPLND changes have been made.

Appendix  
Predeveloped Schematic



# Mitigated Schematic





# Predeveloped UCI File

RUN

GLOBAL

WVHM4 model simulation  
START 1958 10 01 END 2005 09 30  
RUN INTERP OUTPUT LEVEL 3 0  
RESUME 0 RUN 1 UNIT SYSTEM 1  
END GLOBAL

FILES

<File>	<Un#>	<-----File Name----->	***
<-ID->			***
WDM	26	RMV PA3.wdm	
MESSU	25	PreRMV PA3.MES	
	27	PreRMV PA3.L61	
	28	PreRMV PA3.L62	
	30	POCRMV PA31.dat	

END FILES

OPN SEQUENCE

INGRP INDELT 00:15  
PERLND 8  
PERLND 17  
PERLND 18  
PERLND 19  
PERLND 20  
PERLND 29  
PERLND 30  
PERLND 31  
PERLND 32  
PERLND 41  
PERLND 42  
PERLND 43  
PERLND 44  
COPY 501  
DISPLY 1

END INGRP

END OPN SEQUENCE

DISPLY

DISPLY-INFO1

#	-	#	<-----Title----->	***	TRAN	PIVL	DIG1	FIL1	PYR	DIG2	FIL2	YRND
1		A		MAX					1	2	30	9

END DISPLY-INFO1

END DISPLY

COPY

TIMESERIES

#	-	#	NPT	NMN	***
1		1	1	1	
501		1	1	1	

END TIMESERIES

END COPY

GENER

OPCODE

#	#	OPCD	***
---	---	------	-----

END OPCODE

PARM

#	#	K	***
---	---	---	-----

END PARM

END GENER

PERLND

GEN-INFO

<PLS >	<-----Name----->	NBLKS	Unit-systems	Printer	***	
#	-	#	User	t-series	Engl Metr	***
			in	out		***
8	A,Open Brush,VSteep	1	1	1	1	27 0
17	B,Open Brush,Flat	1	1	1	1	27 0
18	B,Open Brush,Mod	1	1	1	1	27 0
19	B,Open Brush,Steep	1	1	1	1	27 0

20	B,Open	Brush,VSteep	1	1	1	1	27	0
29	C,Open	Brush,Flat	1	1	1	1	27	0
30	C,Open	Brush,Mod	1	1	1	1	27	0
31	C,Open	Brush,Steep	1	1	1	1	27	0
32	C,Open	Brush,VSteep	1	1	1	1	27	0
41	D,Open	Brush,Flat	1	1	1	1	27	0
42	D,Open	Brush,Mod	1	1	1	1	27	0
43	D,Open	Brush,Steep	1	1	1	1	27	0
44	D,Open	Brush,VSteep	1	1	1	1	27	0

END GEN-INFO

\*\*\* Section PWATER\*\*\*

ACTIVITY

```
<PLS > ***** Active Sections *****
# - # ATMP SNOW PWAT SED PST PWG PQAL MSTL PEST NITR PHOS TRAC ***
8      0      0      1      0      0      0      0      0      0      0      0      0      0
17     0      0      1      0      0      0      0      0      0      0      0      0      0
18     0      0      1      0      0      0      0      0      0      0      0      0      0
19     0      0      1      0      0      0      0      0      0      0      0      0      0
20     0      0      1      0      0      0      0      0      0      0      0      0      0
29     0      0      1      0      0      0      0      0      0      0      0      0      0
30     0      0      1      0      0      0      0      0      0      0      0      0      0
31     0      0      1      0      0      0      0      0      0      0      0      0      0
32     0      0      1      0      0      0      0      0      0      0      0      0      0
41     0      0      1      0      0      0      0      0      0      0      0      0      0
42     0      0      1      0      0      0      0      0      0      0      0      0      0
43     0      0      1      0      0      0      0      0      0      0      0      0      0
44     0      0      1      0      0      0      0      0      0      0      0      0      0
```

END ACTIVITY

PRINT-INFO

```
<PLS > ***** Print-flags ***** PIVL  PYR
# - # ATMP SNOW PWAT SED PST PWG PQAL MSTL PEST NITR PHOS TRAC *****
8      0      0      4      0      0      0      0      0      0      0      0      0      0      1      9
17     0      0      4      0      0      0      0      0      0      0      0      0      0      1      9
18     0      0      4      0      0      0      0      0      0      0      0      0      0      1      9
19     0      0      4      0      0      0      0      0      0      0      0      0      0      1      9
20     0      0      4      0      0      0      0      0      0      0      0      0      0      1      9
29     0      0      4      0      0      0      0      0      0      0      0      0      0      1      9
30     0      0      4      0      0      0      0      0      0      0      0      0      0      1      9
31     0      0      4      0      0      0      0      0      0      0      0      0      0      1      9
32     0      0      4      0      0      0      0      0      0      0      0      0      0      1      9
41     0      0      4      0      0      0      0      0      0      0      0      0      0      1      9
42     0      0      4      0      0      0      0      0      0      0      0      0      0      1      9
43     0      0      4      0      0      0      0      0      0      0      0      0      0      1      9
44     0      0      4      0      0      0      0      0      0      0      0      0      0      1      9
```

END PRINT-INFO

PWAT-PARM1

```
<PLS > PWATER variable monthly parameter value flags ***
# - # CSNO RTOP UZFG VCS VUZ VMN VIFW VIRC VLE INFC HWT ***
8      0      0      0      1      0      0      0      0      1      0      0
17     0      0      0      1      0      0      0      0      1      0      0
18     0      0      0      1      0      0      0      0      1      0      0
19     0      0      0      1      0      0      0      0      1      0      0
20     0      0      0      1      0      0      0      0      1      0      0
29     0      0      0      1      0      0      0      0      1      0      0
30     0      0      0      1      0      0      0      0      1      0      0
31     0      0      0      1      0      0      0      0      1      0      0
32     0      0      0      1      0      0      0      0      1      0      0
41     0      0      0      1      0      0      0      0      1      0      0
42     0      0      0      1      0      0      0      0      1      0      0
43     0      0      0      1      0      0      0      0      1      0      0
44     0      0      0      1      0      0      0      0      1      0      0
```

END PWAT-PARM1

PWAT-PARM2

```
<PLS > PWATER input info: Part 2 ***
# - # ***FOREST LZSN INFILF LSUR SLSUR KVARY AGWRC
8      0      4.2 0.03 250 0.2 0.8 0.955
```

17	0	5	0.07	400	0.05	0.8	0.955
18	0	4.7	0.055	350	0.1	0.8	0.955
19	0	4.4	0.04	300	0.15	0.8	0.955
20	0	4.1	0.025	250	0.2	0.8	0.955
29	0	4.8	0.045	400	0.05	0.8	0.955
30	0	4.5	0.04	350	0.1	0.8	0.955
31	0	4.2	0.03	300	0.15	0.8	0.955
32	0	4	0.015	250	0.2	0.8	0.955
41	0	4.6	0.04	400	0.05	0.8	0.955
42	0	4.3	0.035	350	0.1	0.8	0.955
43	0	4	0.025	300	0.15	0.8	0.955
44	0	3.7	0.012	250	0.2	0.8	0.955

END PWAT-PARM2

PWAT-PARM3

```
<PLS > PWATER input info: Part 3 ***
# - # ***PETMAX PETMIN INFEXP INFILD DEEPFR BASETP AGWETP
8 40 35 2 2 0 0.03 0
17 40 35 2 2 0 0.03 0
18 40 35 2 2 0 0.03 0
19 40 35 2 2 0 0.03 0
20 40 35 2 2 0 0.03 0
29 40 35 3 2 0 0.03 0
30 40 35 3 2 0 0.03 0
31 40 35 3 2 0 0.03 0
32 40 35 3 2 0 0.03 0
41 40 35 4 2 0 0.03 0
42 40 35 4 2 0 0.03 0
43 40 35 4 2 0 0.03 0
44 40 35 4 2 0 0.03 0
```

END PWAT-PARM3

PWAT-PARM4

```
<PLS > PWATER input info: Part 4 ***
# - # CEPSC UZSN NSUR INTFW IRC LZETP ***
8 0 0.25 0.25 1.3 0.3 0
17 0 0.8 0.25 3 0.7 0
18 0 0.65 0.25 2.4 0.45 0
19 0 0.45 0.25 1.6 0.4 0
20 0 0.25 0.25 1 0.3 0
29 0 0.8 0.25 2 0.7 0
30 0 0.65 0.25 1.2 0.45 0
31 0 0.45 0.25 0.8 0.4 0
32 0 0.25 0.25 0.4 0.3 0
41 0 0.8 0.25 1 0.7 0
42 0 0.65 0.25 0.8 0.45 0
43 0 0.45 0.25 0.6 0.4 0
44 0 0.25 0.25 0.3 0.3 0
```

END PWAT-PARM4

MON-LZETPARM

```
<PLS > PWATER input info: Part 3 ***
# - # JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ***
8 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
17 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
18 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
19 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
20 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
29 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
30 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
31 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
32 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
41 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
42 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
43 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
44 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
```

END MON-LZETPARM

MON-INTERCEP

```
<PLS > PWATER input info: Part 3 ***
# - # JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ***
8 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
17 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
```

```

18      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
19      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
20      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
29      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
30      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
31      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
32      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
41      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
42      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
43      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
44      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12

```

END MON-INTERCEP

PWAT-STATE1

<PLS > \*\*\* Initial conditions at start of simulation  
ran from 1990 to end of 1992 (pat 1-11-95) RUN 21 \*\*\*

#	CEPS	SURS	UZS	IFWS	LZS	AGWS	GWVS
8	0	0	0.025	0	0.84	0.3	0.01
17	0	0	0.08	0	1	0.3	0.01
18	0	0	0.065	0	0.94	0.3	0.01
19	0	0	0.045	0	0.88	0.3	0.01
20	0	0	0.025	0	0.82	0.3	0.01
29	0	0	0.08	0	0.96	0.3	0.01
30	0	0	0.065	0	0.9	0.3	0.01
31	0	0	0.045	0	0.84	0.3	0.01
32	0	0	0.025	0	0.8	0.3	0.01
41	0	0	0.08	0	0.92	0.3	0.01
42	0	0	0.065	0	0.86	0.3	0.01
43	0	0	0.045	0	0.8	0.3	0.01
44	0	0	0.025	0	0.74	0.3	0.01

END PWAT-STATE1

END PERLND

IMPLND

GEN-INFO

<PLS ><-----Name-----> Unit-systems Printer \*\*\*  
# - # User t-series Engr Metr \*\*\*  
in out \*\*\*

END GEN-INFO

\*\*\* Section IWATER\*\*\*

ACTIVITY

<PLS > \*\*\*\*\* Active Sections \*\*\*\*\*  
# - # ATMP SNOW IWAT SLD IWG IQAL \*\*\*

END ACTIVITY

PRINT-INFO

<ILS > \*\*\*\*\* Print-flags \*\*\*\*\* PIVL PYR  
# - # ATMP SNOW IWAT SLD IWG IQAL \*\*\*\*\*

END PRINT-INFO

IWAT-PARM1

<PLS > IWATER variable monthly parameter value flags \*\*\*  
# - # CSNO RTOP VRS VNN RTLI \*\*\*

END IWAT-PARM1

IWAT-PARM2

<PLS > IWATER input info: Part 2 \*\*\*  
# - # \*\*\* LSUR SLSUR NSUR RETSC

END IWAT-PARM2

IWAT-PARM3

<PLS > IWATER input info: Part 3 \*\*\*  
# - # \*\*\*PETMAX PETMIN

END IWAT-PARM3

IWAT-STATE1

<PLS > \*\*\* Initial conditions at start of simulation  
# - # \*\*\* RETS SURS

END IWAT-STATE1

END IMPLND

SCHEMATIC

<-Source->	<--Area-->	<-Target->	MBLK	***
<Name> #	<-factor->	<Name> #	Tbl#	***
A***				
PERLND 8	0.3	COPY 501	12	
PERLND 8	0.3	COPY 501	13	
PERLND 17	6.7	COPY 501	12	
PERLND 17	6.7	COPY 501	13	
PERLND 18	12.2	COPY 501	12	
PERLND 18	12.2	COPY 501	13	
PERLND 19	11.1	COPY 501	12	
PERLND 19	11.1	COPY 501	13	
PERLND 20	25.5	COPY 501	12	
PERLND 20	25.5	COPY 501	13	
PERLND 29	3.7	COPY 501	12	
PERLND 29	3.7	COPY 501	13	
PERLND 30	11.3	COPY 501	12	
PERLND 30	11.3	COPY 501	13	
PERLND 31	21.6	COPY 501	12	
PERLND 31	21.6	COPY 501	13	
PERLND 32	208.8	COPY 501	12	
PERLND 32	208.8	COPY 501	13	
PERLND 41	2.9	COPY 501	12	
PERLND 41	2.9	COPY 501	13	
PERLND 42	7.8	COPY 501	12	
PERLND 42	7.8	COPY 501	13	
PERLND 43	12.8	COPY 501	12	
PERLND 43	12.8	COPY 501	13	
PERLND 44	127.1	COPY 501	12	
PERLND 44	127.1	COPY 501	13	
3A-8***				
PERLND 18	3.1	COPY 501	12	
PERLND 18	3.1	COPY 501	13	
PERLND 20	1.5	COPY 501	12	
PERLND 20	1.5	COPY 501	13	
PERLND 30	1.5	COPY 501	12	
PERLND 30	1.5	COPY 501	13	
PERLND 32	15.5	COPY 501	12	
PERLND 32	15.5	COPY 501	13	
PERLND 44	2.1	COPY 501	12	
PERLND 44	2.1	COPY 501	13	
PERLND 19	1.2	COPY 501	12	
PERLND 19	1.2	COPY 501	13	
PERLND 29	0.7	COPY 501	12	
PERLND 29	0.7	COPY 501	13	
PERLND 17	2.3	COPY 501	12	
PERLND 17	2.3	COPY 501	13	
PERLND 31	2.3	COPY 501	12	
PERLND 31	2.3	COPY 501	13	
3A-12***				
PERLND 18	1.5	COPY 501	12	
PERLND 18	1.5	COPY 501	13	
PERLND 19	0.7	COPY 501	12	
PERLND 19	0.7	COPY 501	13	
PERLND 20	0.7	COPY 501	12	
PERLND 20	0.7	COPY 501	13	
PERLND 30	0.2	COPY 501	12	
PERLND 30	0.2	COPY 501	13	
PERLND 31	0.2	COPY 501	12	
PERLND 31	0.2	COPY 501	13	
PERLND 32	1.2	COPY 501	12	
PERLND 32	1.2	COPY 501	13	
PERLND 44	0.2	COPY 501	12	
PERLND 44	0.2	COPY 501	13	
PERLND 17	0.6	COPY 501	12	
PERLND 17	0.6	COPY 501	13	

```
PERLND 29          0.1    COPY    501    12
PERLND 29          0.1    COPY    501    13
PERLND 43          0.1    COPY    501    12
PERLND 43          0.1    COPY    501    13
```

```
*****Routing*****
END SCHEMATIC
```

```
NETWORK
<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Target vols> <-Grp> <-Member-> ***
<Name> # <Name> # #<-factor->strg <Name> # # <Name> # # ***
COPY 501 OUTPUT MEAN 1 1 48.4 DISPLY 1 INPUT TIMSER 1
```

```
<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Target vols> <-Grp> <-Member-> ***
<Name> # <Name> # #<-factor->strg <Name> # # <Name> # # ***
END NETWORK
```

```
RCHRES
GEN-INFO
RCHRES Name Nexits Unit Systems Printer ***
# - #<-----><----> User T-series Engl Metr LKFG ***
in out ***
END GEN-INFO
*** Section RCHRES***
```

```
ACTIVITY
<PLS > ***** Active Sections *****
# - # HYFG ADFG CNFG HTFG SDFG GQFG OXFG NUFQ PKFG PHFG ***
END ACTIVITY
```

```
PRINT-INFO
<PLS > ***** Print-flags ***** PIVL PYR
# - # HYDR ADCA CONS HEAT SED GQL OXRX NUTR PLNK PHCB PIVL PYR *****
END PRINT-INFO
```

```
HYDR-PARM1
RCHRES Flags for each HYDR Section ***
# - # VC A1 A2 A3 ODFVFG for each *** ODGTFG for each FUNCT for each
FG FG FG FG possible exit *** possible exit possible exit
* * * * * * * * * * * * * * * * * * * * * *
END HYDR-PARM1
```

```
HYDR-PARM2
# - # FTABNO LEN DELTH STCOR KS DB50 ***
<-----><-----><-----><-----><-----><-----><-----> ***
END HYDR-PARM2
```

```
HYDR-INIT
RCHRES Initial conditions for each HYDR section ***
# - # *** VOL Initial value of COLIND Initial value of OUTDGT
*** ac-ft for each possible exit for each possible exit
<-----><-----> <---><---><---><---><---> *** <---><---><---><---><--->
```

```
END HYDR-INIT
END RCHRES
```

```
SPEC-ACTIONS
END SPEC-ACTIONS
FTABLES
END FTABLES
```

```
EXT SOURCES
<-Volume-> <Member> SsysSgap<--Mult-->Tran <-Target vols> <-Grp> <-Member-> ***
<Name> # <Name> # tem strg<-factor->strg <Name> # # <Name> # # ***
WDM 2 PREC ENGL 1 PERLND 1 999 EXTNL PREC
WDM 2 PREC ENGL 1 IMPLND 1 999 EXTNL PREC
WDM 1 EVAP ENGL 1 PERLND 1 999 EXTNL PETINP
WDM 1 EVAP ENGL 1 IMPLND 1 999 EXTNL PETINP
```

```
END EXT SOURCES
```

```

EXT TARGETS
<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Volume-> <Member> Tsys Tgap Amd ***
<Name> # <Name> # #<-factor->strg <Name> # <Name> tem strg strg***
COPY 501 OUTPUT MEAN 1 1 48.4 WDM 501 FLOW ENGL REPL
END EXT TARGETS

```

```

MASS-LINK
<Volume> <-Grp> <-Member-><--Mult--> <Target> <-Grp> <-Member->***
<Name> <Name> # #<-factor-> <Name> <Name> # #***
MASS-LINK 12
PERLND PWATER SURO 0.083333 COPY INPUT MEAN
END MASS-LINK 12

MASS-LINK 13
PERLND PWATER IFWO 0.083333 COPY INPUT MEAN
END MASS-LINK 13

```

END MASS-LINK

END RUN

# Mitigated UCI File

RUN

GLOBAL

```
WVHM4 model simulation
START      1958 10 01      END      2005 09 30
RUN INTERP OUTPUT LEVEL   3      0
RESUME     0 RUN         1
UNIT SYSTEM                                1
END GLOBAL
```

FILES

```
<File> <Un#> <-----File Name----->***
<-ID->                                     ***
WDM      26      RMV PA3.wdm
MESSU    25      MitRMV PA3.MES
          27      MitRMV PA3.L61
          28      MitRMV PA3.L62
          31      POCRMV PA32.dat
          30      POCRMV PA31.dat
```

END FILES

OPN SEQUENCE

```
INGRP          INDELT 00:15
PERLND         19
PERLND         20
PERLND         29
PERLND         30
PERLND         31
PERLND         32
PERLND         43
PERLND         44
PERLND         53
PERLND         55
PERLND         56
PERLND         57
PERLND         58
PERLND         59
PERLND         60
PERLND         61
IMPLND         1
IMPLND         2
IMPLND         3
IMPLND         4
PERLND         41
PERLND         42
PERLND         54
PERLND         62
PERLND         63
PERLND         64
PERLND         17
PERLND         18
RCHRES         1
RCHRES         2
RCHRES         3
RCHRES         4
RCHRES         5
RCHRES         6
RCHRES         7
RCHRES         8
RCHRES         9
RCHRES        10
RCHRES        11
RCHRES        12
RCHRES        13
RCHRES        14
RCHRES        15
RCHRES        16
RCHRES        17
RCHRES        18
```



```

RCHRES      19
RCHRES      20
RCHRES      21
RCHRES      22
RCHRES      23
RCHRES      24
COPY         2
COPY        502
COPY         1
COPY        501
DISPLY       2
DISPLY       1
END INGRP
END OPN SEQUENCE
DISPLY
DISPLY-INFO1
# - #<-----Title----->***TRAN PIVL DIG1 FIL1  PYR DIG2 FIL2 YRND
  2      Flow Splitter  5          MAX          1   2   31   9
  1      Surface 3A-1          MAX          1   2   30   9
END DISPLY-INFO1
END DISPLY
COPY
TIMESERIES
# - # NPT NMN ***
  1      1   1
  2      1   1
502      1   1
501      1   1
END TIMESERIES
END COPY
GENER
OPCODE
# # OPCD ***
END OPCODE
PARM
# # K ***
END PARM
END GENER
PERLND
GEN-INFO
<PLS ><-----Name----->NBLKS  Unit-systems  Printer ***
# - # User t-series Engl Metr ***
          in out
19      B,Open Brush,Steep  1   1   1   1   27   0
20      B,Open Brush,VSteep 1   1   1   1   27   0
29      C,Open Brush,Flat   1   1   1   1   27   0
30      C,Open Brush,Mod    1   1   1   1   27   0
31      C,Open Brush,Steep  1   1   1   1   27   0
32      C,Open Brush,VSteep 1   1   1   1   27   0
43      D,Open Brush,Steep  1   1   1   1   27   0
44      D,Open Brush,VSteep 1   1   1   1   27   0
53      B,Urban,Flat(0-5%)  1   1   1   1   27   0
55      B,Urban,Steep(10-15) 1   1   1   1   27   0
56      B,Urban,VSteep(>15%) 1   1   1   1   27   0
57      C,Urban,Flat(0-5%)  1   1   1   1   27   0
58      C,Urban,Mod(5-10%)  1   1   1   1   27   0
59      C,Urban,Steep(10-15) 1   1   1   1   27   0
60      C,Urban,VSteep(>15%) 1   1   1   1   27   0
61      D,Urban,Flat(0-5%)  1   1   1   1   27   0
41      D,Open Brush,Flat   1   1   1   1   27   0
42      D,Open Brush,Mod    1   1   1   1   27   0
54      B,Urban,Mod(5-10%)  1   1   1   1   27   0
62      D,Urban,Mod(5-10%)  1   1   1   1   27   0
63      D,Urban,Steep(10-15) 1   1   1   1   27   0
64      D,Urban,VSteep(>15%) 1   1   1   1   27   0
17      B,Open Brush,Flat   1   1   1   1   27   0
18      B,Open Brush,Mod    1   1   1   1   27   0
END GEN-INFO
*** Section PWATER***

```

ACTIVITY

```
<PLS > ***** Active Sections *****
# - # ATMP SNOW PWAT SED PST PWG PQAL MSTL PEST NITR PHOS TRAC ***
19 0 0 1 0 0 0 0 0 0 0 0 0 0
20 0 0 1 0 0 0 0 0 0 0 0 0 0
29 0 0 1 0 0 0 0 0 0 0 0 0 0
30 0 0 1 0 0 0 0 0 0 0 0 0 0
31 0 0 1 0 0 0 0 0 0 0 0 0 0
32 0 0 1 0 0 0 0 0 0 0 0 0 0
43 0 0 1 0 0 0 0 0 0 0 0 0 0
44 0 0 1 0 0 0 0 0 0 0 0 0 0
53 0 0 1 0 0 0 0 0 0 0 0 0 0
55 0 0 1 0 0 0 0 0 0 0 0 0 0
56 0 0 1 0 0 0 0 0 0 0 0 0 0
57 0 0 1 0 0 0 0 0 0 0 0 0 0
58 0 0 1 0 0 0 0 0 0 0 0 0 0
59 0 0 1 0 0 0 0 0 0 0 0 0 0
60 0 0 1 0 0 0 0 0 0 0 0 0 0
61 0 0 1 0 0 0 0 0 0 0 0 0 0
41 0 0 1 0 0 0 0 0 0 0 0 0 0
42 0 0 1 0 0 0 0 0 0 0 0 0 0
54 0 0 1 0 0 0 0 0 0 0 0 0 0
62 0 0 1 0 0 0 0 0 0 0 0 0 0
63 0 0 1 0 0 0 0 0 0 0 0 0 0
64 0 0 1 0 0 0 0 0 0 0 0 0 0
17 0 0 1 0 0 0 0 0 0 0 0 0 0
18 0 0 1 0 0 0 0 0 0 0 0 0 0
```

END ACTIVITY

PRINT-INFO

```
<PLS > ***** Print-flags ***** PIVL PYR
# - # ATMP SNOW PWAT SED PST PWG PQAL MSTL PEST NITR PHOS TRAC *****
19 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
20 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
29 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
30 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
31 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
32 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
43 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
44 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
53 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
55 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
56 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
57 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
58 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
59 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
60 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
61 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
41 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
42 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
54 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
62 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
63 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
64 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
17 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
18 0 0 4 0 0 0 0 0 0 0 0 0 0 1 9
```

END PRINT-INFO

PWAT-PARM1

```
<PLS > PWATER variable monthly parameter value flags ***
# - # CSNO RTOP UZFG VCS VUZ VMN VIFW VIRC VLE INFC HWT ***
19 0 0 0 1 0 0 0 0 1 0 0
20 0 0 0 1 0 0 0 0 1 0 0
29 0 0 0 1 0 0 0 0 1 0 0
30 0 0 0 1 0 0 0 0 1 0 0
31 0 0 0 1 0 0 0 0 1 0 0
32 0 0 0 1 0 0 0 0 1 0 0
43 0 0 0 1 0 0 0 0 1 0 0
44 0 0 0 1 0 0 0 0 1 0 0
53 0 0 0 1 0 0 0 0 1 0 0
```

```

55      0      0      0      1      0      0      0      0      1      0      0
56      0      0      0      1      0      0      0      0      1      0      0
57      0      0      0      1      0      0      0      0      1      0      0
58      0      0      0      1      0      0      0      0      1      0      0
59      0      0      0      1      0      0      0      0      1      0      0
60      0      0      0      1      0      0      0      0      1      0      0
61      0      0      0      1      0      0      0      0      1      0      0
41      0      0      0      1      0      0      0      0      1      0      0
42      0      0      0      1      0      0      0      0      1      0      0
54      0      0      0      1      0      0      0      0      1      0      0
62      0      0      0      1      0      0      0      0      1      0      0
63      0      0      0      1      0      0      0      0      1      0      0
64      0      0      0      1      0      0      0      0      1      0      0
17      0      0      0      1      0      0      0      0      1      0      0
18      0      0      0      1      0      0      0      0      1      0      0
END PWAT-PARM1

```

PWAT-PARM2

```

<PLS >      PWATER input info: Part 2      ***
# - # ***FOREST      LZSN      INFILT      LSUR      SLSUR      KVARY      AGWRC
19      0      4.4      0.04      300      0.15      0.8      0.955
20      0      4.1      0.025      250      0.2      0.8      0.955
29      0      4.8      0.045      400      0.05      0.8      0.955
30      0      4.5      0.04      350      0.1      0.8      0.955
31      0      4.2      0.03      300      0.15      0.8      0.955
32      0      4      0.015      250      0.2      0.8      0.955
43      0      4      0.025      300      0.15      0.8      0.955
44      0      3.7      0.012      250      0.2      0.8      0.955
53      0      4.8      0.07      400      0.05      0.8      0.955
55      0      4.2      0.04      300      0.15      0.8      0.955
56      0      4      0.025      250      0.2      0.8      0.955
57      0      4.6      0.045      400      0.05      0.8      0.955
58      0      4.3      0.04      350      0.1      0.8      0.955
59      0      4      0.03      300      0.15      0.8      0.955
60      0      3.7      0.015      250      0.2      0.8      0.955
61      0      4.4      0.04      400      0.05      0.8      0.955
41      0      4.6      0.04      400      0.05      0.8      0.955
42      0      4.3      0.035      350      0.1      0.8      0.955
54      0      4.5      0.055      350      0.1      0.8      0.955
62      0      4.1      0.035      350      0.1      0.8      0.955
63      0      3.9      0.025      300      0.15      0.8      0.955
64      0      3.6      0.012      250      0.2      0.8      0.955
17      0      5      0.07      400      0.05      0.8      0.955
18      0      4.7      0.055      350      0.1      0.8      0.955
END PWAT-PARM2

```

PWAT-PARM3

```

<PLS >      PWATER input info: Part 3      ***
# - # ***PETMAX      PETMIN      INFEXP      INFILD      DEEPFR      BASETP      AGWETP
19      40      35      2      2      0      0.03      0
20      40      35      2      2      0      0.03      0
29      40      35      3      2      0      0.03      0
30      40      35      3      2      0      0.03      0
31      40      35      3      2      0      0.03      0
32      40      35      3      2      0      0.03      0
43      40      35      4      2      0      0.03      0
44      40      35      4      2      0      0.03      0
53      40      35      2      2      0      0.03      0
55      40      35      2      2      0      0.03      0
56      40      35      2      2      0      0.03      0
57      40      35      3      2      0      0.03      0
58      40      35      3      2      0      0.03      0
59      40      35      3      2      0      0.03      0
60      40      35      3      2      0      0.03      0
61      40      35      4      2      0      0.03      0
41      40      35      4      2      0      0.03      0
42      40      35      4      2      0      0.03      0
54      40      35      2      2      0      0.03      0
62      40      35      4      2      0      0.03      0
63      40      35      4      2      0      0.03      0

```

64	40	35	4	2	0	0.03	0
17	40	35	2	2	0	0.03	0
18	40	35	2	2	0	0.03	0

END PWAT-PARM3

PWAT-PARM4

```

<PLS > PWATER input info: Part 4 ***
# - # CEPSC UZSN NSUR INTFW IRC LZETP ***
19 0 0.45 0.25 1.6 0.4 0
20 0 0.25 0.25 1 0.3 0
29 0 0.8 0.25 2 0.7 0
30 0 0.65 0.25 1.2 0.45 0
31 0 0.45 0.25 0.8 0.4 0
32 0 0.25 0.25 0.4 0.3 0
43 0 0.45 0.25 0.6 0.4 0
44 0 0.25 0.25 0.3 0.3 0
53 0 0.7 0.25 3 0.7 0
55 0 0.35 0.25 1.6 0.4 0
56 0 0.2 0.25 1 0.3 0
57 0 0.7 0.25 3 0.7 0
58 0 0.5 0.25 2.4 0.45 0
59 0 0.35 0.25 1.6 0.4 0
60 0 0.2 0.25 1 0.3 0
61 0 0.7 0.25 3 0.7 0
41 0 0.8 0.25 1 0.7 0
42 0 0.65 0.25 0.8 0.45 0
54 0 0.5 0.25 2.4 0.45 0
62 0 0.5 0.25 2.4 0.45 0
63 0 0.35 0.25 1.6 0.4 0
64 0 0.2 0.25 1 0.3 0
17 0 0.8 0.25 3 0.7 0
18 0 0.65 0.25 2.4 0.45 0

```

END PWAT-PARM4

MON-LZETPARM

```

<PLS > PWATER input info: Part 3 ***
# - # JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ***
19 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
20 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
29 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
30 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
31 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
32 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
43 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
44 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
53 0.5 0.5 0.5 0.6 0.65 0.65 0.65 0.65 0.65 0.65 0.55 0.5
55 0.5 0.5 0.5 0.6 0.65 0.65 0.65 0.65 0.65 0.65 0.55 0.5
56 0.5 0.5 0.5 0.6 0.65 0.65 0.65 0.65 0.65 0.65 0.55 0.5
57 0.5 0.5 0.5 0.6 0.65 0.65 0.65 0.65 0.65 0.65 0.55 0.5
58 0.5 0.5 0.5 0.6 0.65 0.65 0.65 0.65 0.65 0.65 0.55 0.5
59 0.5 0.5 0.5 0.6 0.65 0.65 0.65 0.65 0.65 0.65 0.55 0.5
60 0.5 0.5 0.5 0.6 0.65 0.65 0.65 0.65 0.65 0.65 0.55 0.5
61 0.5 0.5 0.5 0.6 0.65 0.65 0.65 0.65 0.65 0.65 0.55 0.5
41 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
42 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
54 0.5 0.5 0.5 0.6 0.65 0.65 0.65 0.65 0.65 0.65 0.55 0.5
62 0.5 0.5 0.5 0.6 0.65 0.65 0.65 0.65 0.65 0.65 0.55 0.5
63 0.5 0.5 0.5 0.6 0.65 0.65 0.65 0.65 0.65 0.65 0.55 0.5
64 0.5 0.5 0.5 0.6 0.65 0.65 0.65 0.65 0.65 0.65 0.55 0.5
17 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4
18 0.4 0.4 0.4 0.5 0.55 0.55 0.55 0.55 0.55 0.55 0.45 0.4

```

END MON-LZETPARM

MON-INTERCEP

```

<PLS > PWATER input info: Part 3 ***
# - # JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC ***
19 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
20 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
29 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
30 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
31 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
32 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
43 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12

```

```

44      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
53      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
55      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
56      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
57      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
58      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
59      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
60      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
61      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
41      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
42      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
54      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
62      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
63      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
64      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
17      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12
18      0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12

```

END MON-INTERCEP

PWAT-STATE1

<PLS > \*\*\* Initial conditions at start of simulation  
ran from 1990 to end of 1992 (pat 1-11-95) RUN 21 \*\*\*

#	#	***	CEPS	SURS	UZS	IFWS	LZS	AGWS	GWVS
19			0	0	0.045	0	0.88	0.3	0.01
20			0	0	0.025	0	0.82	0.3	0.01
29			0	0	0.08	0	0.96	0.3	0.01
30			0	0	0.065	0	0.9	0.3	0.01
31			0	0	0.045	0	0.84	0.3	0.01
32			0	0	0.025	0	0.8	0.3	0.01
43			0	0	0.045	0	0.8	0.3	0.01
44			0	0	0.025	0	0.74	0.3	0.01
53			0	0	0.07	0	0.96	0.3	0.01
55			0	0	0.035	0	0.84	0.3	0.01
56			0	0	0.02	0	0.8	0.3	0.01
57			0	0	0.07	0	0.92	0.3	0.01
58			0	0	0.05	0	0.86	0.3	0.01
59			0	0	0.035	0	0.8	0.3	0.01
60			0	0	0.02	0	0.74	0.3	0.01
61			0	0	0.07	0	0.88	0.3	0.01
41			0	0	0.08	0	0.92	0.3	0.01
42			0	0	0.065	0	0.86	0.3	0.01
54			0	0	0.05	0	0.9	0.3	0.01
62			0	0	0.05	0	0.82	0.3	0.01
63			0	0	0.035	0	0.78	0.3	0.01
64			0	0	0.02	0	0.72	0.3	0.01
17			0	0	0.08	0	1	0.3	0.01
18			0	0	0.065	0	0.94	0.3	0.01

END PWAT-STATE1

END PERLND

IMPLND

GEN-INFO

<PLS ><-----Name----->		Unit-systems		Printer		***
#	#	User	t-series	Engl	Metr	***
		in	out			
1	Impervious, Flat(0-5)	1	1	1	27	0
2	Impervious, Mod(5-10)	1	1	1	27	0
3	Imp, Steep (10-20%)	1	1	1	27	0
4	Imp, Very Steep(>20%)	1	1	1	27	0

END GEN-INFO

\*\*\* Section IWATER\*\*\*

ACTIVITY

<PLS > ***** Active Sections *****		*****						
#	#	ATMP	SNOW	IWAT	SLD	IWG	IQAL	***
1		0	0	1	0	0	0	
2		0	0	1	0	0	0	
3		0	0	1	0	0	0	
4		0	0	1	0	0	0	

END ACTIVITY

PRINT-INFO

<ILS > ***** Print-flags ***** PIVL PYR										
#	-	#	ATMP	SNOW	IWAT	SLD	IWG	IQAL	*****	
1			0	0	4	0	0	0	1	9
2			0	0	4	0	0	0	1	9
3			0	0	4	0	0	0	1	9
4			0	0	4	0	0	0	1	9

END PRINT-INFO

IWAT-PARM1

<PLS > IWATER variable monthly parameter value flags ***								
#	-	#	CSNO	RTOP	VRS	VNN	RTLI	***
1			0	0	0	0	0	
2			0	0	0	0	0	
3			0	0	0	0	0	
4			0	0	0	0	0	

END IWAT-PARM1

IWAT-PARM2

<PLS > IWATER input info: Part 2 ***							
#	-	#	***	LSUR	SLSUR	NSUR	RETSC
1				100	0.05	0.1	0.1
2				100	0.1	0.1	0.09
3				100	0.15	0.1	0.08
4				100	0.2	0.1	0.07

END IWAT-PARM2

IWAT-PARM3

<PLS > IWATER input info: Part 3 ***					
#	-	#	***	PETMAX	PETMIN
1				0	0
2				0	0
3				0	0
4				0	0

END IWAT-PARM3

IWAT-STATE1

<PLS > *** Initial conditions at start of simulation					
#	-	#	***	RETS	SURS
1				0	0
2				0	0
3				0	0
4				0	0

END IWAT-STATE1

END IMPLND

SCHEMATIC

<-Source->		<--Area-->	<-Target->	MBLK	***
<Name>	#	<-factor->	<Name>	#	Tbl#
A-4, A-5***					
PERLND	19	0.1	RCHRES	1	2
PERLND	19	0.1	RCHRES	1	3
PERLND	20	0.4	RCHRES	1	2
PERLND	20	0.4	RCHRES	1	3
PERLND	29	0.3	RCHRES	1	2
PERLND	29	0.3	RCHRES	1	3
PERLND	30	0.4	RCHRES	1	2
PERLND	30	0.4	RCHRES	1	3
PERLND	31	0.3	RCHRES	1	2
PERLND	31	0.3	RCHRES	1	3
PERLND	32	1	RCHRES	1	2
PERLND	32	1	RCHRES	1	3
PERLND	43	0.1	RCHRES	1	2
PERLND	43	0.1	RCHRES	1	3
PERLND	44	0.1	RCHRES	1	2
PERLND	44	0.1	RCHRES	1	3
PERLND	53	0.4	RCHRES	1	2

PERLND	53	0.4	RCHRES	1	3
PERLND	55	0.1	RCHRES	1	2
PERLND	55	0.1	RCHRES	1	3
PERLND	56	0.1	RCHRES	1	2
PERLND	56	0.1	RCHRES	1	3
PERLND	57	2.3	RCHRES	1	2
PERLND	57	2.3	RCHRES	1	3
PERLND	58	0.3	RCHRES	1	2
PERLND	58	0.3	RCHRES	1	3
PERLND	59	0.2	RCHRES	1	2
PERLND	59	0.2	RCHRES	1	3
PERLND	60	0.1	RCHRES	1	2
PERLND	60	0.1	RCHRES	1	3
PERLND	61	1.1	RCHRES	1	2
PERLND	61	1.1	RCHRES	1	3
IMPLND	1	21.9	RCHRES	1	5
IMPLND	2	1.3	RCHRES	1	5
IMPLND	3	1.8	RCHRES	1	5
IMPLND	4	0.3	RCHRES	1	5
A North***					
PERLND	19	0.3	RCHRES	2	2
PERLND	19	0.3	RCHRES	2	3
PERLND	29	1.6	RCHRES	2	2
PERLND	29	1.6	RCHRES	2	3
PERLND	30	2.4	RCHRES	2	2
PERLND	30	2.4	RCHRES	2	3
PERLND	31	2.1	RCHRES	2	2
PERLND	31	2.1	RCHRES	2	3
PERLND	32	28.6	RCHRES	2	2
PERLND	32	28.6	RCHRES	2	3
PERLND	41	0.3	RCHRES	2	2
PERLND	41	0.3	RCHRES	2	3
PERLND	42	0.1	RCHRES	2	2
PERLND	42	0.1	RCHRES	2	3
PERLND	43	0.2	RCHRES	2	2
PERLND	43	0.2	RCHRES	2	3
PERLND	44	2.2	RCHRES	2	2
PERLND	44	2.2	RCHRES	2	3
PERLND	53	3.6	RCHRES	2	2
PERLND	53	3.6	RCHRES	2	3
PERLND	54	0.3	RCHRES	2	2
PERLND	54	0.3	RCHRES	2	3
PERLND	55	0.3	RCHRES	2	2
PERLND	55	0.3	RCHRES	2	3
PERLND	56	0.7	RCHRES	2	2
PERLND	56	0.7	RCHRES	2	3
PERLND	57	10.3	RCHRES	2	2
PERLND	57	10.3	RCHRES	2	3
PERLND	58	1.8	RCHRES	2	2
PERLND	58	1.8	RCHRES	2	3
PERLND	59	1.3	RCHRES	2	2
PERLND	59	1.3	RCHRES	2	3
PERLND	60	1.7	RCHRES	2	2
PERLND	60	1.7	RCHRES	2	3
PERLND	61	3.7	RCHRES	2	2
PERLND	61	3.7	RCHRES	2	3
PERLND	62	0.2	RCHRES	2	2
PERLND	62	0.2	RCHRES	2	3
PERLND	63	0.2	RCHRES	2	2
PERLND	63	0.2	RCHRES	2	3
PERLND	64	0.4	RCHRES	2	2
PERLND	64	0.4	RCHRES	2	3
PERLND	17	0.4	RCHRES	2	2
PERLND	17	0.4	RCHRES	2	3
PERLND	18	0.2	RCHRES	2	2
PERLND	18	0.2	RCHRES	2	3
PERLND	20	2.8	RCHRES	2	2
PERLND	20	2.8	RCHRES	2	3
IMPLND	1	99.3	RCHRES	2	5
IMPLND	2	7.8	RCHRES	2	5

IMPLND	3	15	RCHRES	2	5
IMPLND	4	6.3	RCHRES	2	5
A South***					
PERLND	17	0.1	RCHRES	3	2
PERLND	17	0.1	RCHRES	3	3
PERLND	18	0.1	RCHRES	3	2
PERLND	18	0.1	RCHRES	3	3
PERLND	19	0.1	RCHRES	3	2
PERLND	19	0.1	RCHRES	3	3
PERLND	20	1.5	RCHRES	3	2
PERLND	20	1.5	RCHRES	3	3
PERLND	29	1.9	RCHRES	3	2
PERLND	29	1.9	RCHRES	3	3
PERLND	30	1.2	RCHRES	3	2
PERLND	30	1.2	RCHRES	3	3
PERLND	31	1.6	RCHRES	3	2
PERLND	31	1.6	RCHRES	3	3
PERLND	32	18.9	RCHRES	3	2
PERLND	32	18.9	RCHRES	3	3
PERLND	41	1	RCHRES	3	2
PERLND	41	1	RCHRES	3	3
PERLND	42	1	RCHRES	3	2
PERLND	42	1	RCHRES	3	3
PERLND	43	1.1	RCHRES	3	2
PERLND	43	1.1	RCHRES	3	3
PERLND	44	20.1	RCHRES	3	2
PERLND	44	20.1	RCHRES	3	3
PERLND	53	2.8	RCHRES	3	2
PERLND	53	2.8	RCHRES	3	3
PERLND	54	0.3	RCHRES	3	2
PERLND	54	0.3	RCHRES	3	3
PERLND	55	0.1	RCHRES	3	2
PERLND	55	0.1	RCHRES	3	3
PERLND	56	0.3	RCHRES	3	2
PERLND	56	0.3	RCHRES	3	3
PERLND	57	18.4	RCHRES	3	2
PERLND	57	18.4	RCHRES	3	3
PERLND	58	1.5	RCHRES	3	2
PERLND	58	1.5	RCHRES	3	3
PERLND	59	0.5	RCHRES	3	2
PERLND	59	0.5	RCHRES	3	3
PERLND	60	1.2	RCHRES	3	2
PERLND	60	1.2	RCHRES	3	3
PERLND	61	20.3	RCHRES	3	2
PERLND	61	20.3	RCHRES	3	3
PERLND	62	2	RCHRES	3	2
PERLND	62	2	RCHRES	3	3
PERLND	63	1.2	RCHRES	3	2
PERLND	63	1.2	RCHRES	3	3
PERLND	64	1.7	RCHRES	3	2
PERLND	64	1.7	RCHRES	3	3
IMPLND	1	98.2	RCHRES	3	5
IMPLND	2	10.1	RCHRES	3	5
IMPLND	3	11	RCHRES	3	5
IMPLND	4	6.9	RCHRES	3	5
B-A***					
PERLND	20	2	RCHRES	4	2
PERLND	20	2	RCHRES	4	3
PERLND	29	0.2	RCHRES	4	2
PERLND	29	0.2	RCHRES	4	3
PERLND	30	0.3	RCHRES	4	2
PERLND	30	0.3	RCHRES	4	3
PERLND	31	0.4	RCHRES	4	2
PERLND	31	0.4	RCHRES	4	3
PERLND	32	6.5	RCHRES	4	2
PERLND	32	6.5	RCHRES	4	3
PERLND	43	0.1	RCHRES	4	2
PERLND	43	0.1	RCHRES	4	3
PERLND	44	1.5	RCHRES	4	2
PERLND	44	1.5	RCHRES	4	3



PERLND	53	0.7	RCHRES	4	2
PERLND	53	0.7	RCHRES	4	3
PERLND	56	0.1	RCHRES	4	2
PERLND	56	0.1	RCHRES	4	3
PERLND	57	2.9	RCHRES	4	2
PERLND	57	2.9	RCHRES	4	3
PERLND	58	0.4	RCHRES	4	2
PERLND	58	0.4	RCHRES	4	3
PERLND	59	0.2	RCHRES	4	2
PERLND	59	0.2	RCHRES	4	3
PERLND	60	0.3	RCHRES	4	2
PERLND	60	0.3	RCHRES	4	3
PERLND	17	0.2	RCHRES	4	2
PERLND	17	0.2	RCHRES	4	3
PERLND	18	0.3	RCHRES	4	2
PERLND	18	0.3	RCHRES	4	3
PERLND	42	0.1	RCHRES	4	2
PERLND	42	0.1	RCHRES	4	3
PERLND	54	0.1	RCHRES	4	2
PERLND	54	0.1	RCHRES	4	3
PERLND	62	0.1	RCHRES	4	2
PERLND	62	0.1	RCHRES	4	3
IMPLND	1	7.6	RCHRES	4	5
IMPLND	2	2	RCHRES	4	5
IMPLND	3	2.6	RCHRES	4	5
IMPLND	4	1.6	RCHRES	4	5

Road\*\*\*

PERLND	19	0.4	RCHRES	5	2
PERLND	19	0.4	RCHRES	5	3
PERLND	20	0.8	RCHRES	5	2
PERLND	20	0.8	RCHRES	5	3
PERLND	30	0.2	RCHRES	5	2
PERLND	30	0.2	RCHRES	5	3
PERLND	31	0.2	RCHRES	5	2
PERLND	31	0.2	RCHRES	5	3
PERLND	32	0.3	RCHRES	5	2
PERLND	32	0.3	RCHRES	5	3
PERLND	56	0.1	RCHRES	5	2
PERLND	56	0.1	RCHRES	5	3
PERLND	17	0.1	RCHRES	5	2
PERLND	17	0.1	RCHRES	5	3
PERLND	18	0.2	RCHRES	5	2
PERLND	18	0.2	RCHRES	5	3
PERLND	42	0.1	RCHRES	5	2
PERLND	42	0.1	RCHRES	5	3
PERLND	60	0.1	RCHRES	5	2
PERLND	60	0.1	RCHRES	5	3
PERLND	54	0.1	RCHRES	5	2
PERLND	54	0.1	RCHRES	5	3
IMPLND	1	0.1	RCHRES	5	5
IMPLND	2	0.3	RCHRES	5	5
IMPLND	3	0.8	RCHRES	5	5
IMPLND	4	1.7	RCHRES	5	5

\*\*\*\*\*Routing\*\*\*\*\*

RCHRES	6	1	RCHRES	7	8
RCHRES	8	1	RCHRES	15	6
RCHRES	10	1	RCHRES	18	7
RCHRES	9	1	RCHRES	18	7
RCHRES	9	1	RCHRES	10	8
RCHRES	19	1	RCHRES	21	7
RCHRES	19		COPY	1	17
RCHRES	18	1	RCHRES	21	7
RCHRES	18		COPY	1	17
RCHRES	18	1	RCHRES	19	8
RCHRES	20	1	RCHRES	23	6
RCHRES	23	1	RCHRES	24	6
RCHRES	23		COPY	1	16
RCHRES	1	1	RCHRES	6	7
RCHRES	1		COPY	1	17

RCHRES	2	1	RCHRES	8	7
RCHRES	2	1	RCHRES	20	8
RCHRES	15	1	RCHRES	16	7
RCHRES	15		COPY	1	17
RCHRES	15	1	RCHRES	17	8
RCHRES	15		COPY	1	18
RCHRES	3	1	RCHRES	9	7
RCHRES	3	1	RCHRES	20	8
PERLND	20	2	COPY	2	12
PERLND	29	0.2	COPY	2	12
PERLND	30	0.3	COPY	2	12
PERLND	31	0.4	COPY	2	12
PERLND	32	6.5	COPY	2	12
PERLND	43	0.1	COPY	2	12
PERLND	44	1.5	COPY	2	12
PERLND	53	0.7	COPY	2	12
PERLND	56	0.1	COPY	2	12
PERLND	57	2.9	COPY	2	12
PERLND	58	0.4	COPY	2	12
PERLND	59	0.2	COPY	2	12
PERLND	60	0.3	COPY	2	12
PERLND	17	0.2	COPY	2	12
PERLND	18	0.3	COPY	2	12
PERLND	42	0.1	COPY	2	12
PERLND	54	0.1	COPY	2	12
PERLND	62	0.1	COPY	2	12
IMPLND	1	7.6	COPY	2	15
IMPLND	2	2	COPY	2	15
IMPLND	3	2.6	COPY	2	15
IMPLND	4	1.6	COPY	2	15
PERLND	20	2	COPY	2	13
PERLND	29	0.2	COPY	2	13
PERLND	30	0.3	COPY	2	13
PERLND	31	0.4	COPY	2	13
PERLND	32	6.5	COPY	2	13
PERLND	43	0.1	COPY	2	13
PERLND	44	1.5	COPY	2	13
PERLND	53	0.7	COPY	2	13
PERLND	56	0.1	COPY	2	13
PERLND	57	2.9	COPY	2	13
PERLND	58	0.4	COPY	2	13
PERLND	59	0.2	COPY	2	13
PERLND	60	0.3	COPY	2	13
PERLND	17	0.2	COPY	2	13
PERLND	18	0.3	COPY	2	13
PERLND	42	0.1	COPY	2	13
PERLND	54	0.1	COPY	2	13
PERLND	62	0.1	COPY	2	13
PERLND	19	0.4	COPY	2	12
PERLND	20	0.8	COPY	2	12
PERLND	30	0.2	COPY	2	12
PERLND	31	0.2	COPY	2	12
PERLND	32	0.3	COPY	2	12
PERLND	56	0.1	COPY	2	12
PERLND	17	0.1	COPY	2	12
PERLND	18	0.2	COPY	2	12
PERLND	42	0.1	COPY	2	12
PERLND	60	0.1	COPY	2	12
PERLND	54	0.1	COPY	2	12
IMPLND	1	0.1	COPY	2	15
IMPLND	2	0.3	COPY	2	15
IMPLND	3	0.8	COPY	2	15
IMPLND	4	1.7	COPY	2	15
PERLND	19	0.4	COPY	2	13
PERLND	20	0.8	COPY	2	13
PERLND	30	0.2	COPY	2	13
PERLND	31	0.2	COPY	2	13
PERLND	32	0.3	COPY	2	13
PERLND	56	0.1	COPY	2	13
PERLND	17	0.1	COPY	2	13

```

PERLND 18          0.2    COPY    2    13
PERLND 42          0.1    COPY    2    13
PERLND 60          0.1    COPY    2    13
PERLND 54          0.1    COPY    2    13
RCHRES 4           1      COPY    1    17
RCHRES 4           RCHRES 11    7
RCHRES 5           1      COPY    1    17
RCHRES 5           RCHRES 13    7
RCHRES 11          1      RCHRES 12    8
RCHRES 13          1      RCHRES 14    8
RCHRES 21          1      RCHRES 22    8
RCHRES 7           1      COPY    501   17
RCHRES 6           1      COPY    501   17
RCHRES 16          1      COPY    501   17
RCHRES 17          1      COPY    501   17
RCHRES 24          1      COPY    501   16
RCHRES 4           1      COPY    502   18
RCHRES 4           1      COPY    602   18
RCHRES 5           1      COPY    502   18
RCHRES 5           1      COPY    602   18
RCHRES 12          1      COPY    501   17
RCHRES 11          1      COPY    501   17
RCHRES 14          1      COPY    501   17
RCHRES 13          1      COPY    501   17
RCHRES 22          1      COPY    501   17
RCHRES 21          1      COPY    501   17
END SCHEMATIC

```

NETWORK

```

<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Target vols> <-Grp> <-Member-> ***
<Name> # <Name> # #<-factor->strg <Name> # # <Name> # # ***
COPY 502 OUTPUT MEAN 1 1 48.4 DISPLY 2 INPUT TIMSER 1
COPY 501 OUTPUT MEAN 1 1 48.4 DISPLY 1 INPUT TIMSER 1

```

```

<-Volume-> <-Grp> <-Member-><--Mult-->Tran <-Target vols> <-Grp> <-Member-> ***
<Name> # <Name> # #<-factor->strg <Name> # # <Name> # # ***
END NETWORK

```

RCHRES

GEN-INFO

RCHRES #	Name	Nexits	Unit	Systems	Printer					
# - #	<----->	<---->	User	T-series	Engl	Metr	LKFG			
				in out						
1	Flow Splitter	1-027	2	1	1	1	28	0	1	
2			2	1	1	1	28	0	1	
3	Flow Splitter	4-030	2	1	1	1	28	0	1	
4	Flow Splitter	5-039	2	1	1	1	28	0	1	
5	Flow Splitter	6-040	2	1	1	1	28	0	1	
6	Surface 3A-1		3	1	1	1	28	0	1	
7	3A-1		2	1	1	1	28	0	1	
8	3A-2		1	1	1	1	28	0	1	
9	Surface 3A-5		3	1	1	1	28	0	1	
10	3A-5		2	1	1	1	28	0	1	
11	Surface 3A-8		3	1	1	1	28	0	1	
12	3A-8		2	1	1	1	28	0	1	
13	Surface 3A-12		3	1	1	1	28	0	1	
14	3A-12		2	1	1	1	28	0	1	
15	Flow Splitter	3-029	2	1	1	1	28	0	1	
16	3A-3		2	1	1	1	28	0	1	
17	3A-4		2	1	1	1	28	0	1	
18	Surface 3A-6		3	1	1	1	28	0	1	
19	3A-6		2	1	1	1	28	0	1	
20	3A-9		1	1	1	1	28	0	1	
21	Surface 3A-7		3	1	1	1	28	0	1	
22	3A-7		2	1	1	1	28	0	1	
23	3A-10		1	1	1	1	28	0	1	
24	3A-11		1	1	1	1	28	0	1	

END GEN-INFO

\*\*\* Section RCHRES\*\*\*

ACTIVITY

<PLS > \*\*\*\*\* Active Sections \*\*\*\*\*

# - #	HYFG	ADFG	CNFG	HTFG	SDFG	GQFG	OXFG	NUFG	PKFG	PHFG	***
1	1	0	0	0	0	0	0	0	0	0	0
2	1	0	0	0	0	0	0	0	0	0	0
3	1	0	0	0	0	0	0	0	0	0	0
4	1	0	0	0	0	0	0	0	0	0	0
5	1	0	0	0	0	0	0	0	0	0	0
6	1	0	0	0	0	0	0	0	0	0	0
7	1	0	0	0	0	0	0	0	0	0	0
8	1	0	0	0	0	0	0	0	0	0	0
9	1	0	0	0	0	0	0	0	0	0	0
10	1	0	0	0	0	0	0	0	0	0	0
11	1	0	0	0	0	0	0	0	0	0	0
12	1	0	0	0	0	0	0	0	0	0	0
13	1	0	0	0	0	0	0	0	0	0	0
14	1	0	0	0	0	0	0	0	0	0	0
15	1	0	0	0	0	0	0	0	0	0	0
16	1	0	0	0	0	0	0	0	0	0	0
17	1	0	0	0	0	0	0	0	0	0	0
18	1	0	0	0	0	0	0	0	0	0	0
19	1	0	0	0	0	0	0	0	0	0	0
20	1	0	0	0	0	0	0	0	0	0	0
21	1	0	0	0	0	0	0	0	0	0	0
22	1	0	0	0	0	0	0	0	0	0	0
23	1	0	0	0	0	0	0	0	0	0	0
24	1	0	0	0	0	0	0	0	0	0	0

END ACTIVITY

PRINT-INFO

<PLS > \*\*\*\*\* Print-flags \*\*\*\*\* PIVL PYR \*\*\*\*\*

# - #	HYDR	ADCA	CONS	HEAT	SED	GQL	OXRX	NUTR	PLNK	PHCB	PIVL	PYR	*****
1	4	0	0	0	0	0	0	0	0	0	1	9	
2	4	0	0	0	0	0	0	0	0	0	1	9	
3	4	0	0	0	0	0	0	0	0	0	1	9	
4	4	0	0	0	0	0	0	0	0	0	1	9	
5	4	0	0	0	0	0	0	0	0	0	1	9	
6	4	0	0	0	0	0	0	0	0	0	1	9	
7	4	0	0	0	0	0	0	0	0	0	1	9	
8	4	0	0	0	0	0	0	0	0	0	1	9	
9	4	0	0	0	0	0	0	0	0	0	1	9	
10	4	0	0	0	0	0	0	0	0	0	1	9	
11	4	0	0	0	0	0	0	0	0	0	1	9	
12	4	0	0	0	0	0	0	0	0	0	1	9	
13	4	0	0	0	0	0	0	0	0	0	1	9	
14	4	0	0	0	0	0	0	0	0	0	1	9	
15	4	0	0	0	0	0	0	0	0	0	1	9	
16	4	0	0	0	0	0	0	0	0	0	1	9	
17	4	0	0	0	0	0	0	0	0	0	1	9	
18	4	0	0	0	0	0	0	0	0	0	1	9	
19	4	0	0	0	0	0	0	0	0	0	1	9	
20	4	0	0	0	0	0	0	0	0	0	1	9	
21	4	0	0	0	0	0	0	0	0	0	1	9	
22	4	0	0	0	0	0	0	0	0	0	1	9	
23	4	0	0	0	0	0	0	0	0	0	1	9	
24	4	0	0	0	0	0	0	0	0	0	1	9	

END PRINT-INFO

HYDR-PARM1

RCHRES Flags for each HYDR Section \*\*\*\*\*

# - #	VC	A1	A2	A3	ODFVFG	for each	***	ODGTFG	for each	FUNCT	for each	***		
	FG	FG	FG	FG	possible	exit	***	possible	exit	possible	exit	***		
	*	*	*	*	*	*	*	*	*	*	*	*		
1	0	1	0	0	4	5	0	0	0	2	2	2	2	2
2	0	1	0	0	4	5	0	0	0	2	2	2	2	2
3	0	1	0	0	4	5	0	0	0	2	2	2	2	2
4	0	1	0	0	4	5	0	0	0	2	2	2	2	2
5	0	1	0	0	4	5	0	0	0	2	2	2	2	2

6	0	1	0	0	4	5	6	0	0	0	0	0	0	2	2	2	2	2
7	0	1	0	0	4	5	0	0	0	0	0	0	0	2	2	2	2	2
8	0	1	0	0	4	0	0	0	0	0	0	0	0	2	2	2	2	2
9	0	1	0	0	4	5	6	0	0	0	0	0	0	2	2	2	2	2
10	0	1	0	0	4	5	0	0	0	0	0	0	0	2	2	2	2	2
11	0	1	0	0	4	5	6	0	0	0	0	0	0	2	2	2	2	2
12	0	1	0	0	4	5	0	0	0	0	0	0	0	2	2	2	2	2
13	0	1	0	0	4	5	6	0	0	0	0	0	0	2	2	2	2	2
14	0	1	0	0	4	5	0	0	0	0	0	0	0	2	2	2	2	2
15	0	1	0	0	4	5	0	0	0	0	0	0	0	2	2	2	2	2
16	0	1	0	0	4	5	0	0	0	0	0	0	0	2	2	2	2	2
17	0	1	0	0	4	5	0	0	0	0	0	0	0	2	2	2	2	2
18	0	1	0	0	4	5	6	0	0	0	0	0	0	2	2	2	2	2
19	0	1	0	0	4	5	0	0	0	0	0	0	0	2	2	2	2	2
20	0	1	0	0	4	0	0	0	0	0	0	0	0	2	2	2	2	2
21	0	1	0	0	4	5	6	0	0	0	0	0	0	2	2	2	2	2
22	0	1	0	0	4	5	0	0	0	0	0	0	0	2	2	2	2	2
23	0	1	0	0	4	0	0	0	0	0	0	0	0	2	2	2	2	2
24	0	1	0	0	4	0	0	0	0	0	0	0	0	2	2	2	2	2

END HYDR-PARM1

HYDR-PARM2

#	#	FTABNO	LEN	DELTH	STCOR	KS	DB50	***
1		1	0.01	0.0	0.0	0.5	0.0	***
2		2	0.01	0.0	0.0	0.5	0.0	***
3		3	0.01	0.0	0.0	0.5	0.0	
4		4	0.01	0.0	0.0	0.5	0.0	
5		5	0.01	0.0	0.0	0.5	0.0	
6		6	0.01	0.0	410.0	0.5	0.0	
7		7	0.09	0.0	410.0	0.5	0.0	
8		8	0.08	0.0	405.0	0.5	0.0	
9		9	0.01	0.0	395.0	0.5	0.0	
10		10	0.1	0.0	395.0	0.5	0.0	
11		11	0.01	0.0	345.0	0.5	0.0	
12		12	0.02	0.0	345.0	0.5	0.0	
13		13	0.01	0.0	345.0	0.5	0.0	
14		14	0.01	0.0	345.0	0.5	0.0	
15		15	0.01	0.0	0.0	0.5	0.0	
16		16	0.03	0.0	390.0	0.5	0.0	
17		17	0.1	0.0	381.0	0.5	0.0	
18		18	0.01	0.0	395.0	0.5	0.0	
19		19	0.07	0.0	395.0	0.5	0.0	
20		20	0.16	0.0	335.0	0.5	0.0	
21		21	0.01	0.0	355.0	0.5	0.0	
22		22	0.07	0.0	355.0	0.5	0.0	
23		23	0.13	0.0	315.0	0.5	0.0	
24		24	0.11	0.0	305.0	0.5	0.0	

END HYDR-PARM2

HYDR-INIT

RCHRES Initial conditions for each HYDR section													***				
#	#	***	VOL	Initial value of COLIND					Initial value of OUTDGT								
			***	for each possible exit					for each possible exit								
			ac-ft														
1			0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2			0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3			0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4			0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5			0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6			0	4.0	5.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7			0	4.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8			0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9			0	4.0	5.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10			0	4.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11			0	4.0	5.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12			0	4.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13			0	4.0	5.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14			0	4.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15			0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16			0	4.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

17	0	4.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0	4.0	5.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0	4.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0	4.0	5.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0	4.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

END HYDR-INIT  
 END RCHRES

SPEC-ACTIONS  
 END SPEC-ACTIONS

FTABLES

FTABLE 7

45	5	Depth (ft)	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Outflow2 (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
0.000000	0.752410	0.000000	0.000000	0.000000	0.000000	0.000000		
0.104396	0.752410	0.030634	0.000000	0.000000	0.000000			
0.208791	0.752410	0.061268	0.000000	0.000000	0.000000			
0.313187	0.752410	0.091902	0.000000	0.000000	0.000000			
0.417582	0.752410	0.122535	0.000000	0.000000	0.000000			
0.521978	0.752410	0.153169	0.000000	0.000000	0.000000			
0.626374	0.752410	0.183803	0.000000	0.000000	0.000000			
0.730769	0.752410	0.214437	0.000000	0.051503	0.051503			
0.835165	0.752410	0.245071	0.000000	0.051503	0.051503			
0.939560	0.752410	0.275705	0.000000	0.068692	0.068692			
1.043956	0.752410	0.306339	0.000000	0.075868	0.075868			
1.148352	0.752410	0.336972	0.000000	0.075868	0.075868			
1.252747	0.752410	0.367606	0.000000	0.075868	0.075868			
1.357143	0.752410	0.398240	0.000000	0.075868	0.075868			
1.461538	0.752410	0.428874	0.000000	0.075868	0.075868			
1.565934	0.752410	0.459508	0.060444	0.075868	0.075868			
1.670330	0.752410	0.490142	0.090665	0.075868	0.075868			
1.774725	0.752410	0.520776	0.173188	0.075868	0.075868			
1.879121	0.752410	0.551409	0.214450	0.075868	0.075868			
1.983516	0.752410	0.582043	0.277557	0.075868	0.075868			
2.087912	0.752410	0.612677	0.309111	0.075868	0.075868			
2.192308	0.752410	0.643311	0.358661	0.075868	0.075868			
2.296703	0.752410	0.673945	0.383436	0.075868	0.075868			
2.401099	0.752410	0.704579	0.424721	0.075868	0.075868			
2.505495	0.752410	0.735213	0.445363	0.075868	0.075868			
2.609890	0.752410	0.765846	0.481351	0.075868	0.075868			
2.714286	0.752410	0.796480	0.499344	0.075868	0.075868			
2.818681	0.752410	0.827114	0.531666	0.075868	0.075868			
2.923077	0.752410	0.857748	0.547827	0.075868	0.075868			
3.027473	0.752410	0.890345	0.577435	0.075868	0.075868			
3.131868	0.752410	0.922943	0.592239	0.075868	0.075868			
3.236264	0.752410	0.955541	0.619732	0.075868	0.075868			
3.340659	0.752410	0.988138	0.633479	0.075868	0.075868			
3.445055	0.752410	1.020736	0.659263	0.075868	0.075868			
3.549451	0.752410	1.053333	0.672155	0.075868	0.075868			
3.653846	0.752410	1.085931	0.696518	0.075868	0.075868			
3.758242	0.752410	1.118528	0.681959	0.075868	0.075868			
3.862637	0.752410	1.151126	0.710501	0.075868	0.075868			
3.967033	0.752410	1.183724	0.757419	0.075868	0.075868			
4.071429	0.752410	1.216321	0.811085	0.075868	0.075868			
4.175824	0.752410	1.248919	0.866186	0.075868	0.075868			
4.280220	0.752410	1.281516	0.920440	0.075868	0.075868			
4.384615	0.752410	1.314114	0.973053	0.075868	0.075868			
4.489011	0.752410	1.346711	1.024644	0.075868	0.075868			
4.500000	0.752410	2.835300	2.013982	0.075868	0.075868			

END FTABLE 7

FTABLE 6

49	6	Depth (ft)	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Outflow2 (cfs)	outflow 3 (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
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0.000000	0.752410	0.000000	0.000000	0.000000	0.000000
0.104396	0.760242	0.078957	0.000000	1.100512	0.000000
0.208791	0.768091	0.158733	0.000000	1.100512	0.000000
0.313187	0.775959	0.239329	0.000000	1.100512	0.000000
0.417582	0.783845	0.320747	0.000000	1.100512	0.000000
0.521978	0.791748	0.402990	0.000000	1.100512	0.000000
0.626374	0.799670	0.486058	0.000000	1.100512	0.000000
0.730769	0.807609	0.569955	0.000000	1.100512	0.000000
0.835165	0.815567	0.654681	0.000000	1.100512	0.000000
0.939560	0.823542	0.740239	0.000000	1.100512	0.000000
1.043956	0.831536	0.826630	0.000000	1.100512	0.000000
1.148352	0.839548	0.913857	0.000000	1.100512	0.000000
1.252747	0.847577	1.001921	0.000000	1.100512	0.000000
1.357143	0.855625	1.090825	0.000000	1.100512	0.000000
1.461538	0.863691	1.180569	0.000000	1.100512	0.000000
1.565934	0.871774	1.271157	0.062713	1.100512	0.000000
1.670330	0.879876	1.362589	0.100797	1.100512	0.000000
1.774725	0.887996	1.454868	0.128012	1.100512	0.000000
1.879121	0.896133	1.547995	0.150380	1.100512	0.000000
1.983516	0.904289	1.641974	0.169827	1.100512	0.000000
2.087912	0.912463	1.736804	0.187265	1.100512	0.000000
2.192308	0.920655	1.832489	0.203213	1.100512	0.000000
2.296703	0.928864	1.929030	0.217997	1.100512	0.000000
2.401099	0.937092	2.026428	0.231840	1.100512	0.000000
2.505495	0.945338	2.124687	0.244901	1.100512	0.000000
2.609890	0.953602	2.223808	0.257301	1.100512	0.000000
2.714286	0.961884	2.323792	0.269130	1.100512	0.000000
2.818681	0.970184	2.424641	0.280460	1.100512	0.000000
2.923077	0.978501	2.526358	0.291350	1.100512	0.000000
3.027473	0.986837	2.628945	0.301848	1.100512	0.000000
3.131868	0.995191	2.732402	0.311992	1.100512	0.000000
3.236264	1.003563	2.836733	0.321817	1.100512	0.000000
3.340659	1.011953	2.941938	0.331351	1.100512	0.000000
3.445055	1.020361	3.048021	0.340618	1.100512	0.000000
3.549451	1.028787	3.154982	0.349639	1.100512	0.000000
3.653846	1.037231	3.262823	0.358433	1.100512	0.000000
3.758242	1.045693	3.371547	0.367017	1.100512	0.000000
3.862637	1.054173	3.481156	0.375405	1.100512	0.000000
3.967033	1.062671	3.591650	0.383609	1.100512	0.000000
4.071429	1.071187	3.703033	0.392504	1.100512	0.000000
4.175824	1.079721	3.815306	0.401135	1.100512	0.000000
4.280220	1.088273	3.928470	0.409609	1.100512	0.000000
4.384615	1.096843	4.042528	0.417935	1.100512	0.000000
4.489011	1.105431	4.157482	0.426117	1.100512	0.000000
4.593407	1.114037	4.273334	0.434156	1.100512	0.000000
4.697802	1.122661	4.390084	0.442051	1.100512	0.000000
4.802198	1.131303	4.507736	0.449801	1.100512	0.000000
4.906593	1.139963	4.626292	0.457406	1.100512	0.000000
5.000000	1.147727	4.733134	0.464866	1.100512	0.000000

END FTABLE 6

FTABLE 8

91 4

Depth (ft)	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
0.000000	1.106015	0.000000	0.000000		
0.055556	1.110234	0.061562	0.130815		
0.111111	1.114458	0.123359	0.370000		
0.166667	1.118687	0.185391	0.679733		
0.222222	1.122921	0.247658	1.046518		
0.277778	1.127160	0.310160	1.462553		
0.333333	1.131405	0.372898	1.922576		
0.388889	1.135655	0.435872	2.422723		
0.444444	1.139909	0.499082	2.960000		
0.500000	1.144169	0.562529	3.531998		
0.555556	1.148434	0.626212	4.136726		
0.611111	1.152704	0.690133	4.772498		
0.666667	1.156979	0.754291	5.437867		
0.722222	1.161259	0.818686	6.131571		
0.777778	1.165544	0.883320	6.852496		
0.833333	1.169835	0.948191	7.599650		

0.888889	1.174130	1.013301	8.372144
0.944444	1.178431	1.078650	9.169172
1.000000	1.182736	1.144238	9.990000
1.055556	1.187047	1.210066	10.83396
1.111111	1.191363	1.276133	11.70043
1.166667	1.195684	1.342439	12.58884
1.222222	1.200010	1.408986	13.49866
1.277778	1.204341	1.475774	14.42941
1.333333	1.208678	1.542802	15.38061
1.388889	1.213019	1.610072	16.35184
1.444444	1.217366	1.677582	17.34270
1.500000	1.221717	1.745335	18.35280
1.555556	1.226074	1.813329	19.38179
1.611111	1.230436	1.881565	20.42931
1.666667	1.234803	1.950044	21.49506
1.722222	1.239175	2.018766	22.57872
1.777778	1.243552	2.087730	23.68000
1.833333	1.247934	2.156938	24.79863
1.888889	1.252321	2.226390	25.93433
1.944444	1.256714	2.296085	27.08687
2.000000	1.261111	2.366025	28.25599
2.055556	1.265514	2.436209	28.67284
2.111111	1.269921	2.506638	29.43415
2.166667	1.274334	2.577311	30.41856
2.222222	1.278752	2.648230	31.58112
2.277778	1.283175	2.719395	32.89335
2.333333	1.287603	2.790806	34.33297
2.388889	1.292037	2.862462	35.88016
2.444444	1.296475	2.934365	37.51595
2.500000	1.300918	3.006515	39.22140
2.555556	1.305367	3.078912	40.97733
2.611111	1.309820	3.151556	42.76414
2.666667	1.314279	3.224448	44.56198
2.722222	1.318743	3.297587	46.35088
2.777778	1.323212	3.370975	48.11110
2.833333	1.327686	3.444611	49.82342
2.888889	1.332165	3.518496	51.46964
2.944444	1.336649	3.592629	53.03298
3.000000	1.341139	3.667012	54.49865
3.055556	1.345633	3.741645	55.85437
3.111111	1.350133	3.816527	57.09097
3.166667	1.354637	3.891660	58.20305
3.222222	1.359147	3.967043	59.18960
3.277778	1.363662	4.042676	60.05472
3.333333	1.368182	4.118561	60.80832
3.388889	1.372707	4.194697	61.46691
3.444444	1.377237	4.271084	62.05433
3.500000	1.381772	4.347723	62.60258
3.555556	1.386313	4.424614	63.61050
3.611111	1.390858	4.501758	64.23629
3.666667	1.395409	4.579154	64.85138
3.722222	1.399964	4.656803	65.45630
3.777778	1.404525	4.734706	66.05155
3.833333	1.409091	4.812862	66.63756
3.888889	1.413662	4.891272	67.21476
3.944444	1.418238	4.969936	67.78353
4.000000	1.422819	5.048854	68.34423
4.055556	1.427405	5.128027	68.89720
4.111111	1.431997	5.207455	69.44274
4.166667	1.436593	5.287138	69.98116
4.222222	1.441195	5.367076	70.51271
4.277778	1.445801	5.447271	71.03766
4.333333	1.450413	5.527721	71.55624
4.388889	1.455030	5.608428	72.06869
4.444444	1.459652	5.689391	72.57521
4.500000	1.464279	5.770611	73.07601
4.555556	1.468911	5.852089	73.57127
4.611111	1.473549	5.933824	74.06118
4.666667	1.478191	6.015817	74.54591
4.722222	1.482838	6.098068	75.02561



4.777778 1.487491 6.180577 75.50044  
 4.833333 1.492149 6.263344 75.97054  
 4.888889 1.496812 6.346371 76.43606  
 4.944444 1.501479 6.429657 76.89713  
 5.000000 1.506152 6.513202 77.35386

END FTABLE 8

FTABLE 16

91 5

Depth (ft)	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Outflow2 (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
0.000000	0.389118	0.000000	0.000000	0.000000		
0.077778	0.391941	0.030375	0.000000	0.286424		
0.155556	0.394774	0.060969	0.000000	0.286424		
0.233333	0.397616	0.091784	0.000000	0.286424		
0.311111	0.400469	0.122821	0.000000	0.286424		
0.388889	0.403331	0.154080	0.000000	0.286424		
0.466667	0.406204	0.185562	0.000000	0.286424		
0.544444	0.409086	0.217267	0.000000	0.286424		
0.622222	0.411979	0.249198	0.000000	0.286424		
0.700000	0.414882	0.281353	0.000000	0.286424		
0.777778	0.417794	0.313735	0.000000	0.286424		
0.855556	0.420717	0.346344	0.000000	0.286424		
0.933333	0.423649	0.379180	0.000000	0.286424		
1.011111	0.426592	0.412245	0.000000	0.286424		
1.088889	0.429544	0.445539	0.000000	0.286424		
1.166667	0.432507	0.479064	0.000000	0.286424		
1.244444	0.435479	0.512819	0.000000	0.286424		
1.322222	0.438462	0.546805	0.000000	0.286424		
1.400000	0.441455	0.581024	0.000000	0.286424		
1.477778	0.444457	0.615476	0.000000	0.286424		
1.555556	0.447470	0.650162	0.000000	0.286424		
1.633333	0.450492	0.685083	0.000000	0.286424		
1.711111	0.453525	0.720239	0.000000	0.286424		
1.788889	0.456567	0.755632	0.000000	0.286424		
1.866667	0.459620	0.791261	0.000000	0.286424		
1.944444	0.462682	0.827129	0.000000	0.286424		
2.022222	0.465755	0.863235	0.000000	0.286424		
2.100000	0.468837	0.899580	0.000000	0.286424		
2.177778	0.471930	0.936165	0.000000	0.286424		
2.255556	0.475033	0.972992	0.000000	0.286424		
2.333333	0.478145	1.010060	0.000000	0.286424		
2.411111	0.481268	1.047370	0.000000	0.286424		
2.488889	0.484400	1.084924	0.000000	0.286424		
2.566667	0.487543	1.122722	0.000000	0.286424		
2.644444	0.490695	1.160764	0.000000	0.286424		
2.722222	0.493858	1.199052	0.000000	0.286424		
2.800000	0.497030	1.237587	0.000000	0.286424		
2.877778	0.500213	1.276369	0.000000	0.286424		
2.955556	0.503405	1.315398	0.000000	0.286424		
3.033333	0.506608	1.354676	0.000000	0.286424		
3.111111	0.509820	1.394204	0.000000	0.286424		
3.188889	0.513043	1.433982	0.000000	0.286424		
3.266667	0.516275	1.474011	0.000000	0.286424		
3.344444	0.519518	1.514292	0.000000	0.286424		
3.422222	0.522771	1.554826	0.000000	0.286424		
3.500000	0.526033	1.595612	0.000000	0.286424		
3.577778	0.529306	1.636653	0.000000	0.286424		
3.655556	0.532588	1.677949	0.000000	0.286424		
3.733333	0.535881	1.719501	0.000000	0.286424		
3.811111	0.539183	1.761309	0.000000	0.286424		
3.888889	0.542496	1.803374	0.000000	0.286424		
3.966667	0.545818	1.845697	0.000000	0.286424		
4.044444	0.549151	1.888280	0.000000	0.286424		
4.122222	0.552493	1.931121	0.000000	0.286424		
4.200000	0.555846	1.974223	0.000000	0.286424		
4.277778	0.559208	2.017587	0.491670	0.286424		
4.355556	0.562581	2.061212	3.640454	0.286424		
4.433333	0.565963	2.105099	8.329821	0.286424		
4.511111	0.569356	2.149251	14.15375	0.286424		
4.588889	0.572758	2.193666	20.92123	0.286424		

4.666667	0.576171	2.238347	28.51334	0.286424
4.744444	0.579593	2.283293	36.84592	0.286424
4.822222	0.583026	2.328506	45.85446	0.286424
4.900000	0.586468	2.373987	55.48666	0.286424
4.977778	0.589921	2.419735	65.69817	0.286424
5.055556	0.593383	2.465752	76.45004	0.286424
5.133333	0.596856	2.512040	87.70699	0.286424
5.211111	0.600338	2.558597	99.43634	0.286424
5.288889	0.603831	2.605426	111.6071	0.286424
5.366667	0.607333	2.652527	124.1897	0.286424
5.444444	0.610846	2.699900	137.1549	0.286424
5.522222	0.614368	2.747548	150.4742	0.286424
5.600000	0.617901	2.795469	164.1193	0.286424
5.677778	0.621443	2.843666	178.0619	0.286424
5.755556	0.624996	2.892138	192.2736	0.286424
5.833333	0.628558	2.940888	206.7259	0.286424
5.911111	0.632131	2.989915	221.3899	0.286424
5.988889	0.635713	3.039220	236.2367	0.286424
6.066667	0.639306	3.088804	251.2370	0.286424
6.144444	0.642908	3.138668	266.3613	0.286424
6.222222	0.646521	3.188812	281.5800	0.286424
6.300000	0.650143	3.239238	296.8631	0.286424
6.377778	0.653776	3.289946	312.1807	0.286424
6.455556	0.657418	3.340937	327.5027	0.286424
6.533333	0.661071	3.392211	342.7991	0.286424
6.611111	0.664733	3.443770	358.0400	0.286424
6.688889	0.668406	3.495615	373.1957	0.286424
6.766667	0.672088	3.547745	388.2367	0.286424
6.844444	0.675781	3.600162	403.1339	0.286424
6.922222	0.679483	3.652867	417.8589	0.286424
7.000000	0.683196	3.705860	432.3837	0.286424

END FTABLE 16

FTABLE 17

91 5

Depth (ft)	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Outflow2 (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
0.000000	2.335859	0.000000	0.000000	0.000000		
0.077778	2.343738	0.181984	0.000000	0.000000		1.719387
0.155556	2.351627	0.364582	0.000000	0.000000		1.719387
0.233333	2.359526	0.547793	0.000000	0.000000		1.719387
0.311111	2.367435	0.731620	0.000000	0.000000		1.719387
0.388889	2.375355	0.916061	0.000000	0.000000		1.719387
0.466667	2.383284	1.101120	0.000000	0.000000		1.719387
0.544444	2.391223	1.286795	0.000000	0.000000		1.719387
0.622222	2.399172	1.473088	0.000000	0.000000		1.719387
0.700000	2.407131	1.660000	0.000000	0.000000		1.719387
0.777778	2.415100	1.847531	0.000000	0.000000		1.719387
0.855556	2.423080	2.035682	0.000000	0.000000		1.719387
0.933333	2.431069	2.224455	0.000000	0.000000		1.719387
1.011111	2.439068	2.413849	0.000000	0.000000		1.719387
1.088889	2.447077	2.603866	0.000000	0.000000		1.719387
1.166667	2.455096	2.794506	0.000000	0.000000		1.719387
1.244444	2.463126	2.985770	0.000000	0.000000		1.719387
1.322222	2.471165	3.177659	0.000000	0.000000		1.719387
1.400000	2.479214	3.370174	0.000000	0.000000		1.719387
1.477778	2.487273	3.563315	0.000000	0.000000		1.719387
1.555556	2.495342	3.757084	0.000000	0.000000		1.719387
1.633333	2.503421	3.951480	0.000000	0.000000		1.719387
1.711111	2.511511	4.146505	0.000000	0.000000		1.719387
1.788889	2.519610	4.342160	0.000000	0.000000		1.719387
1.866667	2.527719	4.538445	0.000000	0.000000		1.719387
1.944444	2.535838	4.735361	0.000000	0.000000		1.719387
2.022222	2.543967	4.932909	0.000000	0.000000		1.719387
2.100000	2.552107	5.131089	0.000000	0.000000		1.719387
2.177778	2.560256	5.329904	0.000000	0.000000		1.719387
2.255556	2.568415	5.529352	0.000000	0.000000		1.719387
2.333333	2.576584	5.729435	0.000000	0.000000		1.719387
2.411111	2.584763	5.930154	0.000000	0.000000		1.719387
2.488889	2.592952	6.131510	0.000000	0.000000		1.719387
2.566667	2.601152	6.333503	0.000000	0.000000		1.719387

2.644444	2.609361	6.536134	0.000000	1.719387
2.722222	2.617580	6.739404	0.000000	1.719387
2.800000	2.625809	6.943313	0.000000	1.719387
2.877778	2.634048	7.147863	0.000000	1.719387
2.955556	2.642297	7.353054	0.000000	1.719387
3.033333	2.650556	7.558888	0.000000	1.719387
3.111111	2.658826	7.765364	0.000000	1.719387
3.188889	2.667105	7.972483	0.000000	1.719387
3.266667	2.675394	8.180247	0.000000	1.719387
3.344444	2.683693	8.388656	0.000000	1.719387
3.422222	2.692002	8.597711	0.000000	1.719387
3.500000	2.700321	8.807412	0.000000	1.719387
3.577778	2.708651	9.017761	0.000000	1.719387
3.655556	2.716990	9.228758	0.000000	1.719387
3.733333	2.725339	9.440404	0.000000	1.719387
3.811111	2.733698	9.652700	0.000000	1.719387
3.888889	2.742067	9.865647	0.000000	1.719387
3.966667	2.750446	10.07924	0.000000	1.719387
4.044444	2.758835	10.29349	0.000000	1.719387
4.122222	2.767235	10.50840	0.000000	1.719387
4.200000	2.775644	10.72395	0.000000	1.719387
4.277778	2.784063	10.94016	0.491670	1.719387
4.355556	2.792492	11.15703	3.640454	1.719387
4.433333	2.800931	11.37455	8.329821	1.719387
4.511111	2.809380	11.59273	14.15375	1.719387
4.588889	2.817839	11.81157	20.92123	1.719387
4.666667	2.826309	12.03106	28.51334	1.719387
4.744444	2.834788	12.25122	36.84592	1.719387
4.822222	2.843277	12.47203	45.85446	1.719387
4.900000	2.851776	12.69350	55.48666	1.719387
4.977778	2.860285	12.91564	65.69817	1.719387
5.055556	2.868804	13.13844	76.45004	1.719387
5.133333	2.877333	13.36190	87.70699	1.719387
5.211111	2.885872	13.58602	99.43634	1.719387
5.288889	2.894422	13.81081	111.6071	1.719387
5.366667	2.902981	14.03627	124.1897	1.719387
5.444444	2.911550	14.26239	137.1549	1.719387
5.522222	2.920129	14.48917	150.4742	1.719387
5.600000	2.928718	14.71663	164.1193	1.719387
5.677778	2.937317	14.94475	178.0619	1.719387
5.755556	2.945926	15.17355	192.2736	1.719387
5.833333	2.954545	15.40301	206.7259	1.719387
5.911111	2.963175	15.63314	221.3899	1.719387
5.988889	2.971814	15.86395	236.2367	1.719387
6.066667	2.980463	16.09543	251.2370	1.719387
6.144444	2.989122	16.32758	266.3613	1.719387
6.222222	2.997791	16.56040	281.5800	1.719387
6.300000	3.006470	16.79390	296.8631	1.719387
6.377778	3.015159	17.02807	312.1807	1.719387
6.455556	3.023858	17.26292	327.5027	1.719387
6.533333	3.032567	17.49845	342.7991	1.719387
6.611111	3.041287	17.73466	358.0400	1.719387
6.688889	3.050016	17.97154	373.1957	1.719387
6.766667	3.058755	18.20910	388.2367	1.719387
6.844444	3.067504	18.44735	403.1339	1.719387
6.922222	3.076263	18.68627	417.8589	1.719387
7.000000	3.085032	18.92588	432.3837	1.719387

END FTABLE 17

FTABLE 10

47 5

Depth (ft)	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Outflow2 (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
0.000000	1.571465	0.000000	0.000000	0.000000		
0.098901	1.571465	0.060614	0.000000	0.000000		
0.197802	1.571465	0.121227	0.000000	0.000000		
0.296703	1.571465	0.181841	0.000000	0.000000		
0.395604	1.571465	0.242455	0.000000	0.000000		
0.494505	1.571465	0.303068	0.000000	0.000000		
0.593407	1.571465	0.363682	0.000000	0.000000		
0.692308	1.571465	0.424295	0.000000	0.098115		

0.791209	1.571465	0.484909	0.000000	0.098115
0.890110	1.571465	0.545523	0.000000	0.129169
0.989011	1.571465	0.606136	0.000000	0.158456
1.087912	1.571465	0.666750	0.000000	0.158456
1.186813	1.571465	0.727364	0.000000	0.158456
1.285714	1.571465	0.787977	0.000000	0.158456
1.384615	1.571465	0.848591	0.000000	0.158456
1.483516	1.571465	0.909205	0.000000	0.158456
1.582418	1.571465	0.969818	0.000000	0.158456
1.681319	1.571465	1.030432	0.108047	0.158456
1.780220	1.571465	1.091045	0.162070	0.158456
1.879121	1.571465	1.151659	0.234928	0.158456
1.978022	1.571465	1.212273	0.271356	0.158456
2.076923	1.571465	1.272886	0.324546	0.158456
2.175824	1.571465	1.333500	0.351141	0.158456
2.274725	1.571465	1.394114	0.393845	0.158456
2.373626	1.571465	1.454727	0.415197	0.158456
2.472527	1.571465	1.515341	0.451740	0.158456
2.571429	1.571465	1.575955	0.470011	0.158456
2.670330	1.571465	1.636568	0.502506	0.158456
2.769231	1.571465	1.697182	0.518754	0.158456
2.868132	1.571465	1.757795	0.548344	0.158456
2.967033	1.571465	1.818409	0.563139	0.158456
3.065934	1.571465	1.882908	0.590505	0.158456
3.164835	1.571465	1.947407	0.604189	0.158456
3.263736	1.571465	2.011906	0.629779	0.158456
3.362637	1.571465	2.076406	0.642575	0.158456
3.461538	1.571465	2.140905	0.666701	0.158456
3.560440	1.571465	2.205404	0.678765	0.158456
3.659341	1.571465	2.269903	0.701658	0.158456
3.758242	1.571465	2.334402	0.713104	0.158456
3.857143	1.571465	2.398901	0.734937	0.158456
3.956044	1.571465	2.463400	0.766326	0.158456
4.054945	1.571465	2.527899	0.810909	0.158456
4.153846	1.571465	2.592399	0.860288	0.158456
4.252747	1.571465	2.656898	0.910597	0.158456
4.351648	1.571465	2.721397	0.960190	0.158456
4.450549	1.571465	2.785896	1.008670	0.158456
4.500000	1.571465	5.918106	2.013982	0.158456

END FTABLE 10  
 FTABLE 9

Time***	Depth (ft) (Minutes)***	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Outflow2 (cfs)	outflow 3 (cfs)	Velocity (ft/sec)	Travel
0.000000	0.000000	1.571465	0.000000	0.000000	0.000000	0.000000		
0.098901	0.098901	1.580545	0.155869	0.000000	1.167126	0.000000		
0.197802	0.197802	1.589642	0.312636	0.000000	1.167126	0.000000		
0.296703	0.296703	1.598756	0.470304	0.000000	1.167126	0.000000		
0.395604	0.395604	1.607885	0.628874	0.000000	1.167126	0.000000		
0.494505	0.494505	1.617030	0.788348	0.000000	1.167126	0.000000		
0.593407	0.593407	1.626192	0.948727	0.000000	1.167126	0.000000		
0.692308	0.692308	1.635370	1.110013	0.000000	1.167126	0.000000		
0.791209	0.791209	1.644564	1.272208	0.000000	1.167126	0.000000		
0.890110	0.890110	1.653774	1.435313	0.000000	1.167126	0.000000		
0.989011	0.989011	1.663000	1.599329	0.000000	1.167126	0.000000		
1.087912	1.087912	1.672243	1.764258	0.000000	1.167126	0.000000		
1.186813	1.186813	1.681502	1.930103	0.000000	1.167126	0.000000		
1.285714	1.285714	1.690777	2.096864	0.000000	1.167126	0.000000		
1.384615	1.384615	1.700068	2.264543	0.000000	1.167126	0.000000		
1.483516	1.483516	1.709375	2.433142	0.000000	1.167126	0.000000		
1.582418	1.582418	1.718698	2.602662	1.752876	1.167126	0.000000		
1.681319	1.681319	1.728038	2.773105	2.599935	1.167126	0.000000		
1.780220	1.780220	1.737393	2.944472	3.232144	1.167126	0.000000		
1.879121	1.879121	1.746765	3.116766	3.759500	1.167126	0.000000		
1.978022	1.978022	1.756153	3.289987	4.221484	1.167126	0.000000		
2.076923	2.076923	1.765557	3.464138	4.637674	1.167126	0.000000		
2.175824	2.175824	1.774978	3.639219	5.019473	1.167126	0.000000		
2.274725	2.274725	1.784414	3.815233	5.374216	1.167126	0.000000		

2.373626	1.793867	3.992181	5.706951	1.167126	0.000000
2.472527	1.803336	4.170065	6.021327	1.167126	0.000000
2.571429	1.812821	4.348885	6.320084	1.167126	0.000000
2.670330	1.822322	4.528645	6.605343	1.167126	0.000000
2.769231	1.831839	4.709346	6.878782	1.167126	0.000000
2.868132	1.841373	4.890988	7.141759	1.167126	0.000000
2.967033	1.850922	5.073574	7.395392	1.167126	0.000000
3.065934	1.860488	5.257105	7.640609	1.167126	0.000000
3.164835	1.870070	5.441583	7.878197	1.167126	0.000000
3.263736	1.879669	5.627010	8.108828	1.167126	0.000000
3.362637	1.889283	5.813387	8.333077	1.167126	0.000000
3.461538	1.898913	6.000715	8.551448	1.167126	0.000000
3.560440	1.908560	6.188997	9.552971	1.167126	0.000000
3.659341	1.918223	6.378233	12.34510	1.167126	0.000000
3.758242	1.927902	6.568426	16.12848	1.167126	0.000000
3.857143	1.937597	6.759577	20.66793	1.167126	0.000000
3.956044	1.947309	6.951688	25.83053	1.167126	0.000000
4.054945	1.957036	7.144760	31.51688	1.167126	0.000000
4.153846	1.966780	7.338795	37.64023	1.167126	0.000000
4.252747	1.976540	7.533794	44.11786	1.167126	0.000000
4.351648	1.986316	7.729760	50.86715	1.167126	0.000000
4.450549	1.996108	7.926693	57.80408	1.167126	0.000000
4.500000	2.001010	8.025523	64.84290	1.167126	0.000000

END FTABLE 9

FTABLE 19

47 5

Depth (ft)	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Outflow2 (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
0.000000	0.982185	0.000000	0.000000	0.000000		
0.098901	0.982185	0.037884	0.000000	0.000000		
0.197802	0.982185	0.075769	0.000000	0.000000		
0.296703	0.982185	0.113653	0.000000	0.000000		
0.395604	0.982185	0.151537	0.000000	0.000000		
0.494505	0.982185	0.189421	0.000000	0.000000		
0.593407	0.982185	0.227306	0.000000	0.000000		
0.692308	0.982185	0.265190	0.000000	0.061323		
0.791209	0.982185	0.303074	0.000000	0.061323		
0.890110	0.982185	0.340959	0.000000	0.080732		
0.989011	0.982185	0.378843	0.000000	0.099037		
1.087912	0.982185	0.416727	0.000000	0.099037		
1.186813	0.982185	0.454612	0.000000	0.099037		
1.285714	0.982185	0.492496	0.000000	0.099037		
1.384615	0.982185	0.530380	0.000000	0.099037		
1.483516	0.982185	0.568264	0.000000	0.099037		
1.582418	0.982185	0.606149	0.000000	0.099037		
1.681319	0.982185	0.644033	0.108047	0.099037		
1.780220	0.982185	0.681917	0.162070	0.099037		
1.879121	0.982185	0.719802	0.234928	0.099037		
1.978022	0.982185	0.757686	0.271356	0.099037		
2.076923	0.982185	0.795570	0.324546	0.099037		
2.175824	0.982185	0.833455	0.351141	0.099037		
2.274725	0.982185	0.871339	0.393845	0.099037		
2.373626	0.982185	0.909223	0.415197	0.099037		
2.472527	0.982185	0.947107	0.451740	0.099037		
2.571429	0.982185	0.984992	0.470011	0.099037		
2.670330	0.982185	1.022876	0.502506	0.099037		
2.769231	0.982185	1.060760	0.518754	0.099037		
2.868132	0.982185	1.098645	0.548344	0.099037		
2.967033	0.982185	1.136529	0.563139	0.099037		
3.065934	0.982185	1.176842	0.590505	0.099037		
3.164835	0.982185	1.217154	0.604189	0.099037		
3.263736	0.982185	1.257467	0.629779	0.099037		
3.362637	0.982185	1.297780	0.642575	0.099037		
3.461538	0.982185	1.338093	0.666701	0.099037		
3.560440	0.982185	1.378406	0.678765	0.099037		
3.659341	0.982185	1.418718	0.701658	0.099037		
3.758242	0.982185	1.459031	0.713104	0.099037		
3.857143	0.982185	1.499344	0.734937	0.099037		
3.956044	0.982185	1.539657	0.766326	0.099037		
4.054945	0.982185	1.579969	0.810909	0.099037		

4.153846 0.982185 1.620282 0.860288 0.099037  
 4.252747 0.982185 1.660595 0.910597 0.099037  
 4.351648 0.982185 1.700908 0.960190 0.099037  
 4.450549 0.982185 1.741221 1.008670 0.099037  
 4.500000 0.982185 3.698892 2.013982 0.099037

END FTABLE 19

FTABLE 18

47 6

Depth Time*** (ft) (Minutes)***	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Outflow2 (cfs)	outflow 3 (cfs)	Velocity (ft/sec)	Travel
0.000000	0.982185	0.000000	0.000000	0.000000	0.000000		
0.098901	0.988923	0.097472	0.000000	1.107707	0.000000		
0.197802	0.995677	0.195612	0.000000	1.107707	0.000000		
0.296703	1.002447	0.294420	0.000000	1.107707	0.000000		
0.395604	1.009233	0.393899	0.000000	1.107707	0.000000		
0.494505	1.016036	0.494050	0.000000	1.107707	0.000000		
0.593407	1.022854	0.594874	0.000000	1.107707	0.000000		
0.692308	1.029689	0.696373	0.000000	1.107707	0.000000		
0.791209	1.036540	0.798549	0.000000	1.107707	0.000000		
0.890110	1.043407	0.901404	0.000000	1.107707	0.000000		
0.989011	1.050290	1.004938	0.000000	1.107707	0.000000		
1.087912	1.057190	1.109155	0.000000	1.107707	0.000000		
1.186813	1.064105	1.214054	0.000000	1.107707	0.000000		
1.285714	1.071037	1.319638	0.000000	1.107707	0.000000		
1.384615	1.077985	1.425908	0.000000	1.107707	0.000000		
1.483516	1.084949	1.532866	0.000000	1.107707	0.000000		
1.582418	1.091929	1.640514	1.121841	1.107707	0.000000		
1.681319	1.098925	1.748853	1.663959	1.107707	0.000000		
1.780220	1.105938	1.857885	2.068572	1.107707	0.000000		
1.879121	1.112967	1.967611	2.406080	1.107707	0.000000		
1.978022	1.120012	2.078033	2.701750	1.107707	0.000000		
2.076923	1.127073	2.189152	2.968111	1.107707	0.000000		
2.175824	1.134150	2.300971	3.212463	1.107707	0.000000		
2.274725	1.141243	2.413491	3.439498	1.107707	0.000000		
2.373626	1.148353	2.526712	3.652448	1.107707	0.000000		
2.472527	1.155479	2.640638	3.853649	1.107707	0.000000		
2.571429	1.162621	2.755269	4.044854	1.107707	0.000000		
2.670330	1.169779	2.870608	4.227419	1.107707	0.000000		
2.769231	1.176953	2.986655	4.402420	1.107707	0.000000		
2.868132	1.184143	3.103412	4.570726	1.107707	0.000000		
2.967033	1.191350	3.220882	4.733051	1.107707	0.000000		
3.065934	1.198573	3.339065	4.889990	1.107707	0.000000		
3.164835	1.205812	3.457963	5.042046	1.107707	0.000000		
3.263736	1.213067	3.577578	5.189650	1.107707	0.000000		
3.362637	1.220338	3.697911	5.333169	1.107707	0.000000		
3.461538	1.227625	3.818964	5.472927	1.107707	0.000000		
3.560440	1.234929	3.940739	6.713430	1.107707	0.000000		
3.659341	1.242249	4.063237	10.46592	1.107707	0.000000		
3.758242	1.249585	4.186459	15.61292	1.107707	0.000000		
3.857143	1.256937	4.310408	21.83166	1.107707	0.000000		
3.956044	1.264305	4.435085	28.94965	1.107707	0.000000		
4.054945	1.271689	4.560491	36.84918	1.107707	0.000000		
4.153846	1.279090	4.686629	45.43793	1.107707	0.000000		
4.252747	1.286507	4.813499	54.63637	1.107707	0.000000		
4.351648	1.293940	4.941103	64.37133	1.107707	0.000000		
4.450549	1.301389	5.069444	74.57247	1.107707	0.000000		
4.500000	1.305119	5.133890	85.17023	1.107707	0.000000		

END FTABLE 18

FTABLE 20

91 4

Depth (ft)	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
0.000000	4.195363	0.000000	0.000000		
0.055556	4.203515	0.233302	10.36185		
0.111111	4.211672	0.467057	14.65388		
0.166667	4.219835	0.701266	17.94726		
0.222222	4.228002	0.935928	20.72371		
0.277778	4.236175	1.171044	23.16981		

0.333333	4.244353	1.406614	25.38126
0.388889	4.252535	1.642639	27.41489
0.444444	4.260723	1.879118	29.30775
0.500000	4.268916	2.116053	31.08556
0.555556	4.277115	2.353443	32.76706
0.611111	4.285318	2.591288	34.36638
0.666667	4.293526	2.829589	35.89452
0.722222	4.301740	3.068346	37.36020
0.777778	4.309958	3.307560	38.77051
0.833333	4.318182	3.547231	40.13129
0.888889	4.326411	3.787358	41.44742
0.944444	4.334644	4.027943	42.72302
1.000000	4.342883	4.268986	43.96163
1.055556	4.351127	4.510486	45.16628
1.111111	4.359377	4.752444	46.33962
1.166667	4.367631	4.994861	47.48398
1.222222	4.375890	5.237737	48.60141
1.277778	4.384155	5.481072	49.69371
1.333333	4.392424	5.724865	50.76251
1.388889	4.400699	5.969119	51.80927
1.444444	4.408979	6.213832	52.83530
1.500000	4.417264	6.459005	53.84177
1.555556	4.425554	6.704639	54.82978
1.611111	4.433849	6.950734	55.80029
1.666667	4.442149	7.197289	56.75421
1.722222	4.450454	7.444306	57.69236
1.777778	4.458764	7.691784	58.61550
1.833333	4.467080	7.939724	59.52432
1.888889	4.475400	8.188127	60.41947
1.944444	4.483726	8.436991	61.30156
2.000000	4.492057	8.686319	62.17113
2.055556	4.500393	8.936109	63.02870
2.111111	4.508734	9.186362	63.87476
2.166667	4.517080	9.437079	64.70976
2.222222	4.525431	9.688260	65.53412
2.277778	4.533787	9.939905	66.34824
2.333333	4.542149	10.19201	67.15249
2.388889	4.550515	10.44459	67.94722
2.444444	4.558887	10.69763	68.73277
2.500000	4.567264	10.95113	69.50943
2.555556	4.575645	11.20510	70.27752
2.611111	4.584032	11.45954	71.03729
2.666667	4.592424	11.71444	71.78903
2.722222	4.600821	11.96981	72.53298
2.777778	4.609224	12.22564	73.26938
2.833333	4.617631	12.48194	73.99844
2.888889	4.626043	12.73871	74.72039
2.944444	4.634461	12.99595	75.43544
3.000000	4.642883	13.25365	76.14377
3.055556	4.651311	13.51182	86.85959
3.111111	4.659744	13.77046	105.8635
3.166667	4.668182	14.02957	130.2594
3.222222	4.676625	14.28915	159.0136
3.277778	4.685073	14.54920	191.5288
3.333333	4.693526	14.80971	227.4018
3.388889	4.701984	15.07070	266.3367
3.444444	4.710448	15.33216	308.1043
3.500000	4.718916	15.59408	352.5200
3.555556	4.727390	15.85648	399.4314
3.611111	4.735869	16.11935	448.7094
3.666667	4.744353	16.38269	500.2432
3.722222	4.752842	16.64650	553.9361
3.777778	4.761336	16.91078	609.7030
3.833333	4.769835	17.17554	667.4679
3.888889	4.778339	17.44076	727.1627
3.944444	4.786848	17.70646	788.7258
4.000000	4.795363	17.97264	852.1010
4.055556	4.803882	18.23928	917.2370
4.111111	4.812407	18.50640	984.0866
4.166667	4.820937	18.77399	1052.606

4.222222	4.829471	19.04206	1122.755
4.277778	4.838011	19.31060	1194.496
4.333333	4.846556	19.57962	1267.793
4.388889	4.855107	19.84911	1342.614
4.444444	4.863662	20.11908	1418.927
4.500000	4.872222	20.38952	1496.704
4.555556	4.880788	20.66043	1575.917
4.611111	4.889358	20.93183	1656.540
4.666667	4.897934	21.20370	1738.548
4.722222	4.906515	21.47604	1821.917
4.777778	4.915100	21.74886	1906.626
4.833333	4.923691	22.02216	1992.653
4.888889	4.932288	22.29594	2079.978
4.944444	4.940889	22.57020	2168.581
5.000000	4.949495	22.84493	2258.443

END FTABLE 20

FTABLE 23

91 4

Depth (ft)	Area (acres)	Volume (acre-ft)	Outflowl (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
0.000000	2.045455	0.000000	0.000000		
0.055556	2.051541	0.113805	10.36185		
0.111111	2.057632	0.227949	14.65388		
0.166667	2.063728	0.342431	17.94726		
0.222222	2.069830	0.457252	20.72371		
0.277778	2.075936	0.572413	23.16981		
0.333333	2.082048	0.687912	25.38126		
0.388889	2.088164	0.803751	27.41489		
0.444444	2.094286	0.919931	29.30775		
0.500000	2.100413	1.036450	31.08556		
0.555556	2.106545	1.153310	32.76706		
0.611111	2.112682	1.270511	34.36638		
0.666667	2.118825	1.388053	35.89452		
0.722222	2.124972	1.505936	37.36020		
0.777778	2.131124	1.624161	38.77051		
0.833333	2.137282	1.742727	40.13129		
0.888889	2.143445	1.861637	41.44742		
0.944444	2.149612	1.980888	42.72302		
1.000000	2.155785	2.100483	43.96163		
1.055556	2.161963	2.220420	45.16628		
1.111111	2.168146	2.340701	46.33962		
1.166667	2.174334	2.461325	47.48398		
1.222222	2.180527	2.582294	48.60141		
1.277778	2.186726	2.703606	49.69371		
1.333333	2.192929	2.825263	50.76251		
1.388889	2.199138	2.947265	51.80927		
1.444444	2.205351	3.069612	52.83530		
1.500000	2.211570	3.192304	53.84177		
1.555556	2.217794	3.315342	54.82978		
1.611111	2.224023	3.438726	55.80029		
1.666667	2.230257	3.562456	56.75421		
1.722222	2.236496	3.686533	57.69236		
1.777778	2.242741	3.810956	58.61550		
1.833333	2.248990	3.935726	59.52432		
1.888889	2.255244	4.060844	60.41947		
1.944444	2.261504	4.186309	61.30156		
2.000000	2.267769	4.312122	62.17113		
2.055556	2.274038	4.438283	63.02870		
2.111111	2.280313	4.564793	63.87476		
2.166667	2.286593	4.691652	64.70976		
2.222222	2.292878	4.818859	65.53412		
2.277778	2.299168	4.946416	66.34824		
2.333333	2.305464	5.074322	67.15249		
2.388889	2.311764	5.202579	67.94722		
2.444444	2.318070	5.331185	68.73277		
2.500000	2.324380	5.460142	69.50943		
2.555556	2.330696	5.589450	70.27752		
2.611111	2.337017	5.719109	71.03729		
2.666667	2.343343	5.849119	71.78903		
2.722222	2.349674	5.979480	72.53298		



2.777778	2.356010	6.110194	73.26938
2.833333	2.362351	6.241259	73.99844
2.888889	2.368697	6.372677	74.72039
2.944444	2.375048	6.504448	75.43544
3.000000	2.381405	6.636572	76.14377
3.055556	2.387767	6.769049	77.81873
3.111111	2.394133	6.901879	80.29243
3.166667	2.400505	7.035063	83.28323
3.222222	2.406882	7.168602	86.69062
3.277778	2.413264	7.302495	90.45630
3.333333	2.419651	7.436743	94.54056
3.388889	2.426043	7.571345	98.91373
3.444444	2.432441	7.706303	103.5521
3.500000	2.438843	7.841617	108.4360
3.555556	2.445250	7.977286	113.5481
3.611111	2.451663	8.113311	118.8730
3.666667	2.458081	8.249693	124.3964
3.722222	2.464504	8.386431	130.1048
3.777778	2.470932	8.523527	135.9855
3.833333	2.477365	8.660979	142.0257
3.888889	2.483803	8.798790	148.2132
3.944444	2.490246	8.936958	154.5357
4.000000	2.496694	9.075484	160.9810
4.055556	2.503148	9.214368	167.5368
4.111111	2.509606	9.353611	174.1908
4.166667	2.516070	9.493214	180.9305
4.222222	2.522539	9.633175	187.7433
4.277778	2.529012	9.773496	194.6165
4.333333	2.535491	9.914176	201.5375
4.388889	2.541975	10.05522	208.4933
4.444444	2.548464	10.19662	215.4709
4.500000	2.554959	10.33838	222.4574
4.555556	2.561458	10.48050	229.4398
4.611111	2.567962	10.62299	236.4050
4.666667	2.574472	10.76583	243.3401
4.722222	2.580987	10.90904	250.2322
4.777778	2.587506	11.05261	257.0687
4.833333	2.594031	11.19654	263.8369
4.888889	2.600561	11.34083	270.5245
4.944444	2.607096	11.48549	277.1197
5.000000	2.613636	11.63051	283.6106

END FTABLE 23

FTABLE 1

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Depth (ft)	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Outflow2 (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
0.000000	0.002296	0.000000	6.900000	0.000000		
0.111111	0.002296	0.000255	6.900000	0.000000		
0.222222	0.002296	0.000510	6.900000	0.000000		
0.333333	0.002296	0.000765	6.900000	0.000000		
0.444444	0.002296	0.001020	6.900000	0.000000		
0.555556	0.002296	0.001275	6.900000	0.000000		
0.666667	0.002296	0.001530	6.900000	11.00000		
0.777778	0.002296	0.001786	6.900000	21.00000		
0.888889	0.002296	0.002041	6.900000	31.00000		
1.000000	0.002296	0.002296	6.900000	41.00000		
1.111111	0.002296	0.002551	6.900000	51.00000		
1.222222	0.002296	0.002806	6.900000	61.00000		
1.333333	0.002296	0.003061	6.900000	71.00000		
1.444444	0.002296	0.003316	6.900000	81.00000		
1.555556	0.002296	0.003571	6.900000	91.00000		
1.666667	0.002296	0.003826	6.900000	101.0000		
1.777778	0.002296	0.004081	6.900000	111.0000		
1.888889	0.002296	0.004336	6.900000	121.0000		
2.000000	0.002296	0.004591	6.900000	131.0000		
2.111111	0.002296	0.004846	6.900000	141.0000		
2.222222	0.002296	0.005102	6.900000	151.0000		
2.333333	0.002296	0.005357	6.900000	161.0000		
2.444444	0.002296	0.005612	6.900000	171.0000		
2.555556	0.002296	0.005867	6.900000	181.0000		

2.666667	0.002296	0.006122	6.900000	191.0000
2.777778	0.002296	0.006377	6.900000	201.0000
2.888889	0.002296	0.006632	6.900000	211.0000
3.000000	0.002296	0.006887	6.900000	221.0000
3.111111	0.002296	0.007142	6.900000	231.0000
3.222222	0.002296	0.007397	6.900000	241.0000
3.333333	0.002296	0.007652	6.900000	251.0000
3.444444	0.002296	0.007907	6.900000	261.0000
3.555556	0.002296	0.008162	6.900000	271.0000
3.666667	0.002296	0.008418	6.900000	281.0000
3.777778	0.002296	0.008673	6.900000	291.0000
3.888889	0.002296	0.008928	6.900000	301.0000
4.000000	0.002296	0.009183	6.900000	311.0000
4.111111	0.002296	0.009438	6.900000	321.0000
4.222222	0.002296	0.009693	6.900000	331.0000
4.333333	0.002296	0.009948	6.900000	341.0000
4.444444	0.002296	0.010203	6.900000	351.0000
4.555556	0.002296	0.010458	6.900000	361.0000
4.666667	0.002296	0.010713	6.900000	371.0000
4.777778	0.002296	0.010968	6.900000	381.0000
4.888889	0.002296	0.011223	6.900000	391.0000
5.000000	0.002296	0.011478	6.900000	401.0000
5.111111	0.002296	0.011733	6.900000	411.0000
5.222222	0.002296	0.011989	6.900000	421.0000
5.333333	0.002296	0.012244	6.900000	431.0000
5.444444	0.002296	0.012499	6.900000	441.0000
5.555556	0.002296	0.012754	6.900000	451.0000
5.666667	0.002296	0.013009	6.900000	461.0000
5.777778	0.002296	0.013264	6.900000	471.0000
5.888889	0.002296	0.013519	6.900000	481.0000
6.000000	0.002296	0.013774	6.900000	491.0000
6.111111	0.002296	0.014029	6.900000	501.0000
6.222222	0.002296	0.014284	6.900000	511.0000
6.333333	0.002296	0.014539	6.900000	521.0000
6.444444	0.002296	0.014794	6.900000	531.0000
6.555556	0.002296	0.015049	6.900000	541.0000
6.666667	0.002296	0.015305	6.900000	551.0000
6.777778	0.002296	0.015560	6.900000	561.0000
6.888889	0.002296	0.015815	6.900000	571.0000
7.000000	0.002296	0.016070	6.900000	581.0000
7.111111	0.002296	0.016325	6.900000	591.0000
7.222222	0.002296	0.016580	6.900000	601.0000
7.333333	0.002296	0.016835	6.900000	611.0000
7.444444	0.002296	0.017090	6.900000	621.0000
7.555556	0.002296	0.017345	6.900000	631.0000
7.666667	0.002296	0.017600	6.900000	641.0000
7.777778	0.002296	0.017855	6.900000	651.0000
7.888889	0.002296	0.018110	6.900000	661.0000
8.000000	0.002296	0.018365	6.900000	671.0000
8.111111	0.002296	0.018621	6.900000	681.0000
8.222222	0.002296	0.018876	6.900000	691.0000
8.333333	0.002296	0.019131	6.900000	701.0000
8.444444	0.002296	0.019386	6.900000	711.0000
8.555556	0.002296	0.019641	6.900000	721.0000
8.666667	0.002296	0.019896	6.900000	731.0000
8.777778	0.002296	0.020151	6.900000	741.0000
8.888889	0.002296	0.020406	6.900000	751.0000
9.000000	0.002296	0.020661	6.900000	761.0000
9.111111	0.002296	0.020916	6.900000	771.0000
9.222222	0.002296	0.021171	6.900000	781.0000
9.333333	0.002296	0.021426	6.900000	791.0000
9.444444	0.002296	0.021681	6.900000	801.0000
9.555556	0.002296	0.021937	6.900000	811.0000
9.666667	0.002296	0.022192	6.900000	821.0000
9.777778	0.002296	0.022447	6.900000	831.0000
9.888889	0.002296	0.022702	6.900000	841.0000

END FTABLE 1  
 FTABLE 2

90 5  
 Depth

Area Volume Outflow1 Outflow2 Velocity Travel Time\*\*\*

(ft)	(acres)	(acre-ft)	(cfs)	(cfs)	(ft/sec)	(Minutes)***
0.000000	0.002296	0.000000	35.60000	0.000000		
0.111111	0.002296	0.000255	35.60000	0.000000		
0.222222	0.002296	0.000510	35.60000	0.000000		
0.333333	0.002296	0.000765	35.60000	0.000000		
0.444444	0.002296	0.001020	35.60000	0.000000		
0.555556	0.002296	0.001275	35.60000	0.000000		
0.666667	0.002296	0.001530	35.60000	11.00000		
0.777778	0.002296	0.001786	35.60000	21.00000		
0.888889	0.002296	0.002041	35.60000	31.00000		
1.000000	0.002296	0.002296	35.60000	41.00000		
1.111111	0.002296	0.002551	35.60000	51.00000		
1.222222	0.002296	0.002806	35.60000	61.00000		
1.333333	0.002296	0.003061	35.60000	71.00000		
1.444444	0.002296	0.003316	35.60000	81.00000		
1.555556	0.002296	0.003571	35.60000	91.00000		
1.666667	0.002296	0.003826	35.60000	101.0000		
1.777778	0.002296	0.004081	35.60000	111.0000		
1.888889	0.002296	0.004336	35.60000	121.0000		
2.000000	0.002296	0.004591	35.60000	131.0000		
2.111111	0.002296	0.004846	35.60000	141.0000		
2.222222	0.002296	0.005102	35.60000	151.0000		
2.333333	0.002296	0.005357	35.60000	161.0000		
2.444444	0.002296	0.005612	35.60000	171.0000		
2.555556	0.002296	0.005867	35.60000	181.0000		
2.666667	0.002296	0.006122	35.60000	191.0000		
2.777778	0.002296	0.006377	35.60000	201.0000		
2.888889	0.002296	0.006632	35.60000	211.0000		
3.000000	0.002296	0.006887	35.60000	221.0000		
3.111111	0.002296	0.007142	35.60000	231.0000		
3.222222	0.002296	0.007397	35.60000	241.0000		
3.333333	0.002296	0.007652	35.60000	251.0000		
3.444444	0.002296	0.007907	35.60000	261.0000		
3.555556	0.002296	0.008162	35.60000	271.0000		
3.666667	0.002296	0.008418	35.60000	281.0000		
3.777778	0.002296	0.008673	35.60000	291.0000		
3.888889	0.002296	0.008928	35.60000	301.0000		
4.000000	0.002296	0.009183	35.60000	311.0000		
4.111111	0.002296	0.009438	35.60000	321.0000		
4.222222	0.002296	0.009693	35.60000	331.0000		
4.333333	0.002296	0.009948	35.60000	341.0000		
4.444444	0.002296	0.010203	35.60000	351.0000		
4.555556	0.002296	0.010458	35.60000	361.0000		
4.666667	0.002296	0.010713	35.60000	371.0000		
4.777778	0.002296	0.010968	35.60000	381.0000		
4.888889	0.002296	0.011223	35.60000	391.0000		
5.000000	0.002296	0.011478	35.60000	401.0000		
5.111111	0.002296	0.011733	35.60000	411.0000		
5.222222	0.002296	0.011989	35.60000	421.0000		
5.333333	0.002296	0.012244	35.60000	431.0000		
5.444444	0.002296	0.012499	35.60000	441.0000		
5.555556	0.002296	0.012754	35.60000	451.0000		
5.666667	0.002296	0.013009	35.60000	461.0000		
5.777778	0.002296	0.013264	35.60000	471.0000		
5.888889	0.002296	0.013519	35.60000	481.0000		
6.000000	0.002296	0.013774	35.60000	491.0000		
6.111111	0.002296	0.014029	35.60000	501.0000		
6.222222	0.002296	0.014284	35.60000	511.0000		
6.333333	0.002296	0.014539	35.60000	521.0000		
6.444444	0.002296	0.014794	35.60000	531.0000		
6.555556	0.002296	0.015049	35.60000	541.0000		
6.666667	0.002296	0.015305	35.60000	551.0000		
6.777778	0.002296	0.015560	35.60000	561.0000		
6.888889	0.002296	0.015815	35.60000	571.0000		
7.000000	0.002296	0.016070	35.60000	581.0000		
7.111111	0.002296	0.016325	35.60000	591.0000		
7.222222	0.002296	0.016580	35.60000	601.0000		
7.333333	0.002296	0.016835	35.60000	611.0000		
7.444444	0.002296	0.017090	35.60000	621.0000		
7.555556	0.002296	0.017345	35.60000	631.0000		

7.666667	0.002296	0.017600	35.60000	641.0000
7.777778	0.002296	0.017855	35.60000	651.0000
7.888889	0.002296	0.018110	35.60000	661.0000
8.000000	0.002296	0.018365	35.60000	671.0000
8.111111	0.002296	0.018621	35.60000	681.0000
8.222222	0.002296	0.018876	35.60000	691.0000
8.333333	0.002296	0.019131	35.60000	701.0000
8.444444	0.002296	0.019386	35.60000	711.0000
8.555556	0.002296	0.019641	35.60000	721.0000
8.666667	0.002296	0.019896	35.60000	731.0000
8.777778	0.002296	0.020151	35.60000	741.0000
8.888889	0.002296	0.020406	35.60000	751.0000
9.000000	0.002296	0.020661	35.60000	761.0000
9.111111	0.002296	0.020916	35.60000	771.0000
9.222222	0.002296	0.021171	35.60000	781.0000
9.333333	0.002296	0.021426	35.60000	791.0000
9.444444	0.002296	0.021681	35.60000	801.0000
9.555556	0.002296	0.021937	35.60000	811.0000
9.666667	0.002296	0.022192	35.60000	821.0000
9.777778	0.002296	0.022447	35.60000	831.0000
9.888889	0.002296	0.022702	35.60000	841.0000

END FTABLE 2

FTABLE 15

90 5

Depth (ft)	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Outflow2 (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
0.000000	0.002296	0.000000	5.000000	0.000000		
0.111111	0.002296	0.000255	5.000000	0.000000		
0.222222	0.002296	0.000510	5.000000	0.000000		
0.333333	0.002296	0.000765	5.000000	0.000000		
0.444444	0.002296	0.001020	5.000000	0.000000		
0.555556	0.002296	0.001275	5.000000	0.000000		
0.666667	0.002296	0.001530	5.000000	11.00000		
0.777778	0.002296	0.001786	5.000000	21.00000		
0.888889	0.002296	0.002041	5.000000	31.00000		
1.000000	0.002296	0.002296	5.000000	41.00000		
1.111111	0.002296	0.002551	5.000000	51.00000		
1.222222	0.002296	0.002806	5.000000	61.00000		
1.333333	0.002296	0.003061	5.000000	71.00000		
1.444444	0.002296	0.003316	5.000000	81.00000		
1.555556	0.002296	0.003571	5.000000	91.00000		
1.666667	0.002296	0.003826	5.000000	101.0000		
1.777778	0.002296	0.004081	5.000000	111.0000		
1.888889	0.002296	0.004336	5.000000	121.0000		
2.000000	0.002296	0.004591	5.000000	131.0000		
2.111111	0.002296	0.004846	5.000000	141.0000		
2.222222	0.002296	0.005102	5.000000	151.0000		
2.333333	0.002296	0.005357	5.000000	161.0000		
2.444444	0.002296	0.005612	5.000000	171.0000		
2.555556	0.002296	0.005867	5.000000	181.0000		
2.666667	0.002296	0.006122	5.000000	191.0000		
2.777778	0.002296	0.006377	5.000000	201.0000		
2.888889	0.002296	0.006632	5.000000	211.0000		
3.000000	0.002296	0.006887	5.000000	221.0000		
3.111111	0.002296	0.007142	5.000000	231.0000		
3.222222	0.002296	0.007397	5.000000	241.0000		
3.333333	0.002296	0.007652	5.000000	251.0000		
3.444444	0.002296	0.007907	5.000000	261.0000		
3.555556	0.002296	0.008162	5.000000	271.0000		
3.666667	0.002296	0.008418	5.000000	281.0000		
3.777778	0.002296	0.008673	5.000000	291.0000		
3.888889	0.002296	0.008928	5.000000	301.0000		
4.000000	0.002296	0.009183	5.000000	311.0000		
4.111111	0.002296	0.009438	5.000000	321.0000		
4.222222	0.002296	0.009693	5.000000	331.0000		
4.333333	0.002296	0.009948	5.000000	341.0000		
4.444444	0.002296	0.010203	5.000000	351.0000		
4.555556	0.002296	0.010458	5.000000	361.0000		
4.666667	0.002296	0.010713	5.000000	371.0000		
4.777778	0.002296	0.010968	5.000000	381.0000		

4.888889	0.002296	0.011223	5.000000	391.0000
5.000000	0.002296	0.011478	5.000000	401.0000
5.111111	0.002296	0.011733	5.000000	411.0000
5.222222	0.002296	0.011989	5.000000	421.0000
5.333333	0.002296	0.012244	5.000000	431.0000
5.444444	0.002296	0.012499	5.000000	441.0000
5.555556	0.002296	0.012754	5.000000	451.0000
5.666667	0.002296	0.013009	5.000000	461.0000
5.777778	0.002296	0.013264	5.000000	471.0000
5.888889	0.002296	0.013519	5.000000	481.0000
6.000000	0.002296	0.013774	5.000000	491.0000
6.111111	0.002296	0.014029	5.000000	501.0000
6.222222	0.002296	0.014284	5.000000	511.0000
6.333333	0.002296	0.014539	5.000000	521.0000
6.444444	0.002296	0.014794	5.000000	531.0000
6.555556	0.002296	0.015049	5.000000	541.0000
6.666667	0.002296	0.015305	5.000000	551.0000
6.777778	0.002296	0.015560	5.000000	561.0000
6.888889	0.002296	0.015815	5.000000	571.0000
7.000000	0.002296	0.016070	5.000000	581.0000
7.111111	0.002296	0.016325	5.000000	591.0000
7.222222	0.002296	0.016580	5.000000	601.0000
7.333333	0.002296	0.016835	5.000000	611.0000
7.444444	0.002296	0.017090	5.000000	621.0000
7.555556	0.002296	0.017345	5.000000	631.0000
7.666667	0.002296	0.017600	5.000000	641.0000
7.777778	0.002296	0.017855	5.000000	651.0000
7.888889	0.002296	0.018110	5.000000	661.0000
8.000000	0.002296	0.018365	5.000000	671.0000
8.111111	0.002296	0.018621	5.000000	681.0000
8.222222	0.002296	0.018876	5.000000	691.0000
8.333333	0.002296	0.019131	5.000000	701.0000
8.444444	0.002296	0.019386	5.000000	711.0000
8.555556	0.002296	0.019641	5.000000	721.0000
8.666667	0.002296	0.019896	5.000000	731.0000
8.777778	0.002296	0.020151	5.000000	741.0000
8.888889	0.002296	0.020406	5.000000	751.0000
9.000000	0.002296	0.020661	5.000000	761.0000
9.111111	0.002296	0.020916	5.000000	771.0000
9.222222	0.002296	0.021171	5.000000	781.0000
9.333333	0.002296	0.021426	5.000000	791.0000
9.444444	0.002296	0.021681	5.000000	801.0000
9.555556	0.002296	0.021937	5.000000	811.0000
9.666667	0.002296	0.022192	5.000000	821.0000
9.777778	0.002296	0.022447	5.000000	831.0000
9.888889	0.002296	0.022702	5.000000	841.0000

END FTABLE 15

FTABLE 3

90 5

Depth (ft)	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Outflow2 (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
0.000000	0.002296	0.000000	36.10000	0.000000		
0.111111	0.002296	0.000255	36.10000	0.000000		
0.222222	0.002296	0.000510	36.10000	0.000000		
0.333333	0.002296	0.000765	36.10000	0.000000		
0.444444	0.002296	0.001020	36.10000	0.000000		
0.555556	0.002296	0.001275	36.10000	0.000000		
0.666667	0.002296	0.001530	36.10000	11.00000		
0.777778	0.002296	0.001786	36.10000	21.00000		
0.888889	0.002296	0.002041	36.10000	31.00000		
1.000000	0.002296	0.002296	36.10000	41.00000		
1.111111	0.002296	0.002551	36.10000	51.00000		
1.222222	0.002296	0.002806	36.10000	61.00000		
1.333333	0.002296	0.003061	36.10000	71.00000		
1.444444	0.002296	0.003316	36.10000	81.00000		
1.555556	0.002296	0.003571	36.10000	91.00000		
1.666667	0.002296	0.003826	36.10000	101.0000		
1.777778	0.002296	0.004081	36.10000	111.0000		
1.888889	0.002296	0.004336	36.10000	121.0000		
2.000000	0.002296	0.004591	36.10000	131.0000		

2.111111	0.002296	0.004846	36.10000	141.0000
2.222222	0.002296	0.005102	36.10000	151.0000
2.333333	0.002296	0.005357	36.10000	161.0000
2.444444	0.002296	0.005612	36.10000	171.0000
2.555556	0.002296	0.005867	36.10000	181.0000
2.666667	0.002296	0.006122	36.10000	191.0000
2.777778	0.002296	0.006377	36.10000	201.0000
2.888889	0.002296	0.006632	36.10000	211.0000
3.000000	0.002296	0.006887	36.10000	221.0000
3.111111	0.002296	0.007142	36.10000	231.0000
3.222222	0.002296	0.007397	36.10000	241.0000
3.333333	0.002296	0.007652	36.10000	251.0000
3.444444	0.002296	0.007907	36.10000	261.0000
3.555556	0.002296	0.008162	36.10000	271.0000
3.666667	0.002296	0.008418	36.10000	281.0000
3.777778	0.002296	0.008673	36.10000	291.0000
3.888889	0.002296	0.008928	36.10000	301.0000
4.000000	0.002296	0.009183	36.10000	311.0000
4.111111	0.002296	0.009438	36.10000	321.0000
4.222222	0.002296	0.009693	36.10000	331.0000
4.333333	0.002296	0.009948	36.10000	341.0000
4.444444	0.002296	0.010203	36.10000	351.0000
4.555556	0.002296	0.010458	36.10000	361.0000
4.666667	0.002296	0.010713	36.10000	371.0000
4.777778	0.002296	0.010968	36.10000	381.0000
4.888889	0.002296	0.011223	36.10000	391.0000
5.000000	0.002296	0.011478	36.10000	401.0000
5.111111	0.002296	0.011733	36.10000	411.0000
5.222222	0.002296	0.011989	36.10000	421.0000
5.333333	0.002296	0.012244	36.10000	431.0000
5.444444	0.002296	0.012499	36.10000	441.0000
5.555556	0.002296	0.012754	36.10000	451.0000
5.666667	0.002296	0.013009	36.10000	461.0000
5.777778	0.002296	0.013264	36.10000	471.0000
5.888889	0.002296	0.013519	36.10000	481.0000
6.000000	0.002296	0.013774	36.10000	491.0000
6.111111	0.002296	0.014029	36.10000	501.0000
6.222222	0.002296	0.014284	36.10000	511.0000
6.333333	0.002296	0.014539	36.10000	521.0000
6.444444	0.002296	0.014794	36.10000	531.0000
6.555556	0.002296	0.015049	36.10000	541.0000
6.666667	0.002296	0.015305	36.10000	551.0000
6.777778	0.002296	0.015560	36.10000	561.0000
6.888889	0.002296	0.015815	36.10000	571.0000
7.000000	0.002296	0.016070	36.10000	581.0000
7.111111	0.002296	0.016325	36.10000	591.0000
7.222222	0.002296	0.016580	36.10000	601.0000
7.333333	0.002296	0.016835	36.10000	611.0000
7.444444	0.002296	0.017090	36.10000	621.0000
7.555556	0.002296	0.017345	36.10000	631.0000
7.666667	0.002296	0.017600	36.10000	641.0000
7.777778	0.002296	0.017855	36.10000	651.0000
7.888889	0.002296	0.018110	36.10000	661.0000
8.000000	0.002296	0.018365	36.10000	671.0000
8.111111	0.002296	0.018621	36.10000	681.0000
8.222222	0.002296	0.018876	36.10000	691.0000
8.333333	0.002296	0.019131	36.10000	701.0000
8.444444	0.002296	0.019386	36.10000	711.0000
8.555556	0.002296	0.019641	36.10000	721.0000
8.666667	0.002296	0.019896	36.10000	731.0000
8.777778	0.002296	0.020151	36.10000	741.0000
8.888889	0.002296	0.020406	36.10000	751.0000
9.000000	0.002296	0.020661	36.10000	761.0000
9.111111	0.002296	0.020916	36.10000	771.0000
9.222222	0.002296	0.021171	36.10000	781.0000
9.333333	0.002296	0.021426	36.10000	791.0000
9.444444	0.002296	0.021681	36.10000	801.0000
9.555556	0.002296	0.021937	36.10000	811.0000
9.666667	0.002296	0.022192	36.10000	821.0000
9.777778	0.002296	0.022447	36.10000	831.0000

9.888889 0.002296 0.022702 36.10000 841.0000

END FTABLE 3

FTABLE 24

91 4

Depth (ft)	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
0.000000	1.983471	0.000000	0.000000		
0.055556	1.989029	0.110347	11.97370		
0.111111	1.994592	0.221003	16.93337		
0.166667	2.000161	0.331969	20.73905		
0.222222	2.005734	0.443244	23.94740		
0.277778	2.011313	0.554828	26.77400		
0.333333	2.016896	0.666723	29.32945		
0.388889	2.022485	0.778928	31.67943		
0.444444	2.028079	0.891444	33.86673		
0.500000	2.033678	1.004270	35.92110		
0.555556	2.039282	1.117408	37.86416		
0.611111	2.044891	1.230857	39.71226		
0.666667	2.050505	1.344618	41.47811		
0.722222	2.056124	1.458691	43.17178		
0.777778	2.061749	1.573077	44.80148		
0.833333	2.067378	1.687775	46.37393		
0.888889	2.073013	1.802785	47.89479		
0.944444	2.078653	1.918109	49.36882		
1.000000	2.084298	2.033747	50.80010		
1.055556	2.089947	2.149698	52.19214		
1.111111	2.095602	2.265964	53.54801		
1.166667	2.101263	2.382543	54.87038		
1.222222	2.106928	2.499437	56.16162		
1.277778	2.112598	2.616646	57.42384		
1.333333	2.118274	2.734171	58.65890		
1.388889	2.123954	2.852010	59.86849		
1.444444	2.129640	2.970166	61.05412		
1.500000	2.135331	3.088637	62.21716		
1.555556	2.141026	3.207425	63.35886		
1.611111	2.146727	3.326529	64.48034		
1.666667	2.152433	3.445950	65.58265		
1.722222	2.158145	3.565688	66.66673		
1.777778	2.163861	3.685744	67.73347		
1.833333	2.169582	3.806118	68.78366		
1.888889	2.175309	3.926809	69.81806		
1.944444	2.181040	4.047819	70.83736		
2.000000	2.186777	4.169147	71.84219		
2.055556	2.192519	4.290794	72.83316		
2.111111	2.198265	4.412760	73.81083		
2.166667	2.204017	4.535046	74.77572		
2.222222	2.209775	4.657651	75.72832		
2.277778	2.215537	4.780576	76.66908		
2.333333	2.221304	4.903822	77.59843		
2.388889	2.227076	5.027388	78.51679		
2.444444	2.232854	5.151275	79.42453		
2.500000	2.238636	5.275483	80.32201		
2.555556	2.244424	5.400013	81.20957		
2.611111	2.250217	5.524864	82.08754		
2.666667	2.256015	5.650037	82.95622		
2.722222	2.261818	5.775532	83.81589		
2.777778	2.267626	5.901350	84.66683		
2.833333	2.273439	6.027491	85.50931		
2.888889	2.279257	6.153955	86.34357		
2.944444	2.285081	6.280742	87.16984		
3.000000	2.290909	6.407853	87.98835		
3.055556	2.296743	6.535287	89.49432		
3.111111	2.302581	6.663046	91.56771		
3.166667	2.308425	6.791130	94.00734		
3.222222	2.314274	6.919538	96.74116		
3.277778	2.320128	7.048272	99.72690		
3.333333	2.325987	7.177330	102.9351		
3.388889	2.331851	7.306715	106.3428		
3.444444	2.337721	7.436425	109.9309		
3.500000	2.343595	7.566462	113.6826		

3.555556	2.349475	7.696825	117.5822
3.611111	2.355359	7.827514	121.6148
3.666667	2.361249	7.958531	125.7658
3.722222	2.367144	8.089876	130.0207
3.777778	2.373044	8.221547	134.3650
3.833333	2.378949	8.353547	138.7840
3.888889	2.384859	8.485875	143.2631
3.944444	2.390774	8.618532	147.7871
4.000000	2.396694	8.751517	152.3408
4.055556	2.402620	8.884831	156.9091
4.111111	2.408550	9.018475	161.4765
4.166667	2.414486	9.152448	166.0276
4.222222	2.420426	9.286751	170.5472
4.277778	2.426372	9.421384	175.0202
4.333333	2.432323	9.556348	179.4317
4.388889	2.438279	9.691643	183.7674
4.444444	2.444240	9.827268	188.0134
4.500000	2.450207	9.963225	192.1565
4.555556	2.456178	10.09951	196.1843
4.611111	2.462154	10.23613	200.0854
4.666667	2.468136	10.37309	203.8495
4.722222	2.474123	10.51037	207.4675
4.777778	2.480114	10.64799	210.9319
4.833333	2.486111	10.78594	214.2366
4.888889	2.492113	10.92422	217.3776
4.944444	2.498120	11.06284	220.3527
5.000000	2.504132	11.20179	223.1617

END FTABLE 24

FTABLE 4

90 5

Depth (ft)	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Outflow2 (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
0.000000	0.002296	0.000000	3.600000	0.000000		
0.111111	0.002296	0.000255	3.600000	0.000000		
0.222222	0.002296	0.000510	3.600000	0.000000		
0.333333	0.002296	0.000765	3.600000	0.000000		
0.444444	0.002296	0.001020	3.600000	0.000000		
0.555556	0.002296	0.001275	3.600000	0.000000		
0.666667	0.002296	0.001530	3.600000	11.00000		
0.777778	0.002296	0.001786	3.600000	21.00000		
0.888889	0.002296	0.002041	3.600000	31.00000		
1.000000	0.002296	0.002296	3.600000	41.00000		
1.111111	0.002296	0.002551	3.600000	51.00000		
1.222222	0.002296	0.002806	3.600000	61.00000		
1.333333	0.002296	0.003061	3.600000	71.00000		
1.444444	0.002296	0.003316	3.600000	81.00000		
1.555556	0.002296	0.003571	3.600000	91.00000		
1.666667	0.002296	0.003826	3.600000	101.0000		
1.777778	0.002296	0.004081	3.600000	111.0000		
1.888889	0.002296	0.004336	3.600000	121.0000		
2.000000	0.002296	0.004591	3.600000	131.0000		
2.111111	0.002296	0.004846	3.600000	141.0000		
2.222222	0.002296	0.005102	3.600000	151.0000		
2.333333	0.002296	0.005357	3.600000	161.0000		
2.444444	0.002296	0.005612	3.600000	171.0000		
2.555556	0.002296	0.005867	3.600000	181.0000		
2.666667	0.002296	0.006122	3.600000	191.0000		
2.777778	0.002296	0.006377	3.600000	201.0000		
2.888889	0.002296	0.006632	3.600000	211.0000		
3.000000	0.002296	0.006887	3.600000	221.0000		
3.111111	0.002296	0.007142	3.600000	231.0000		
3.222222	0.002296	0.007397	3.600000	241.0000		
3.333333	0.002296	0.007652	3.600000	251.0000		
3.444444	0.002296	0.007907	3.600000	261.0000		
3.555556	0.002296	0.008162	3.600000	271.0000		
3.666667	0.002296	0.008418	3.600000	281.0000		
3.777778	0.002296	0.008673	3.600000	291.0000		
3.888889	0.002296	0.008928	3.600000	301.0000		
4.000000	0.002296	0.009183	3.600000	311.0000		
4.111111	0.002296	0.009438	3.600000	321.0000		



4.222222	0.002296	0.009693	3.600000	331.0000
4.333333	0.002296	0.009948	3.600000	341.0000
4.444444	0.002296	0.010203	3.600000	351.0000
4.555556	0.002296	0.010458	3.600000	361.0000
4.666667	0.002296	0.010713	3.600000	371.0000
4.777778	0.002296	0.010968	3.600000	381.0000
4.888889	0.002296	0.011223	3.600000	391.0000
5.000000	0.002296	0.011478	3.600000	401.0000
5.111111	0.002296	0.011733	3.600000	411.0000
5.222222	0.002296	0.011989	3.600000	421.0000
5.333333	0.002296	0.012244	3.600000	431.0000
5.444444	0.002296	0.012499	3.600000	441.0000
5.555556	0.002296	0.012754	3.600000	451.0000
5.666667	0.002296	0.013009	3.600000	461.0000
5.777778	0.002296	0.013264	3.600000	471.0000
5.888889	0.002296	0.013519	3.600000	481.0000
6.000000	0.002296	0.013774	3.600000	491.0000
6.111111	0.002296	0.014029	3.600000	501.0000
6.222222	0.002296	0.014284	3.600000	511.0000
6.333333	0.002296	0.014539	3.600000	521.0000
6.444444	0.002296	0.014794	3.600000	531.0000
6.555556	0.002296	0.015049	3.600000	541.0000
6.666667	0.002296	0.015305	3.600000	551.0000
6.777778	0.002296	0.015560	3.600000	561.0000
6.888889	0.002296	0.015815	3.600000	571.0000
7.000000	0.002296	0.016070	3.600000	581.0000
7.111111	0.002296	0.016325	3.600000	591.0000
7.222222	0.002296	0.016580	3.600000	601.0000
7.333333	0.002296	0.016835	3.600000	611.0000
7.444444	0.002296	0.017090	3.600000	621.0000
7.555556	0.002296	0.017345	3.600000	631.0000
7.666667	0.002296	0.017600	3.600000	641.0000
7.777778	0.002296	0.017855	3.600000	651.0000
7.888889	0.002296	0.018110	3.600000	661.0000
8.000000	0.002296	0.018365	3.600000	671.0000
8.111111	0.002296	0.018621	3.600000	681.0000
8.222222	0.002296	0.018876	3.600000	691.0000
8.333333	0.002296	0.019131	3.600000	701.0000
8.444444	0.002296	0.019386	3.600000	711.0000
8.555556	0.002296	0.019641	3.600000	721.0000
8.666667	0.002296	0.019896	3.600000	731.0000
8.777778	0.002296	0.020151	3.600000	741.0000
8.888889	0.002296	0.020406	3.600000	751.0000
9.000000	0.002296	0.020661	3.600000	761.0000
9.111111	0.002296	0.020916	3.600000	771.0000
9.222222	0.002296	0.021171	3.600000	781.0000
9.333333	0.002296	0.021426	3.600000	791.0000
9.444444	0.002296	0.021681	3.600000	801.0000
9.555556	0.002296	0.021937	3.600000	811.0000
9.666667	0.002296	0.022192	3.600000	821.0000
9.777778	0.002296	0.022447	3.600000	831.0000
9.888889	0.002296	0.022702	3.600000	841.0000

END FTABLE 4

FTABLE 5

90 5

Depth (ft)	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Outflow2 (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
0.000000	0.002296	0.000000	0.700000	0.000000		
0.111111	0.002296	0.000255	0.700000	0.000000		
0.222222	0.002296	0.000510	0.700000	0.000000		
0.333333	0.002296	0.000765	0.700000	0.000000		
0.444444	0.002296	0.001020	0.700000	0.000000		
0.555556	0.002296	0.001275	0.700000	0.000000		
0.666667	0.002296	0.001530	0.700000	11.00000		
0.777778	0.002296	0.001786	0.700000	21.00000		
0.888889	0.002296	0.002041	0.700000	31.00000		
1.000000	0.002296	0.002296	0.700000	41.00000		
1.111111	0.002296	0.002551	0.700000	51.00000		
1.222222	0.002296	0.002806	0.700000	61.00000		
1.333333	0.002296	0.003061	0.700000	71.00000		

1.444444	0.002296	0.003316	0.700000	81.00000
1.555556	0.002296	0.003571	0.700000	91.00000
1.666667	0.002296	0.003826	0.700000	101.00000
1.777778	0.002296	0.004081	0.700000	111.00000
1.888889	0.002296	0.004336	0.700000	121.00000
2.000000	0.002296	0.004591	0.700000	131.00000
2.111111	0.002296	0.004846	0.700000	141.00000
2.222222	0.002296	0.005102	0.700000	151.00000
2.333333	0.002296	0.005357	0.700000	161.00000
2.444444	0.002296	0.005612	0.700000	171.00000
2.555556	0.002296	0.005867	0.700000	181.00000
2.666667	0.002296	0.006122	0.700000	191.00000
2.777778	0.002296	0.006377	0.700000	201.00000
2.888889	0.002296	0.006632	0.700000	211.00000
3.000000	0.002296	0.006887	0.700000	221.00000
3.111111	0.002296	0.007142	0.700000	231.00000
3.222222	0.002296	0.007397	0.700000	241.00000
3.333333	0.002296	0.007652	0.700000	251.00000
3.444444	0.002296	0.007907	0.700000	261.00000
3.555556	0.002296	0.008162	0.700000	271.00000
3.666667	0.002296	0.008418	0.700000	281.00000
3.777778	0.002296	0.008673	0.700000	291.00000
3.888889	0.002296	0.008928	0.700000	301.00000
4.000000	0.002296	0.009183	0.700000	311.00000
4.111111	0.002296	0.009438	0.700000	321.00000
4.222222	0.002296	0.009693	0.700000	331.00000
4.333333	0.002296	0.009948	0.700000	341.00000
4.444444	0.002296	0.010203	0.700000	351.00000
4.555556	0.002296	0.010458	0.700000	361.00000
4.666667	0.002296	0.010713	0.700000	371.00000
4.777778	0.002296	0.010968	0.700000	381.00000
4.888889	0.002296	0.011223	0.700000	391.00000
5.000000	0.002296	0.011478	0.700000	401.00000
5.111111	0.002296	0.011733	0.700000	411.00000
5.222222	0.002296	0.011989	0.700000	421.00000
5.333333	0.002296	0.012244	0.700000	431.00000
5.444444	0.002296	0.012499	0.700000	441.00000
5.555556	0.002296	0.012754	0.700000	451.00000
5.666667	0.002296	0.013009	0.700000	461.00000
5.777778	0.002296	0.013264	0.700000	471.00000
5.888889	0.002296	0.013519	0.700000	481.00000
6.000000	0.002296	0.013774	0.700000	491.00000
6.111111	0.002296	0.014029	0.700000	501.00000
6.222222	0.002296	0.014284	0.700000	511.00000
6.333333	0.002296	0.014539	0.700000	521.00000
6.444444	0.002296	0.014794	0.700000	531.00000
6.555556	0.002296	0.015049	0.700000	541.00000
6.666667	0.002296	0.015305	0.700000	551.00000
6.777778	0.002296	0.015560	0.700000	561.00000
6.888889	0.002296	0.015815	0.700000	571.00000
7.000000	0.002296	0.016070	0.700000	581.00000
7.111111	0.002296	0.016325	0.700000	591.00000
7.222222	0.002296	0.016580	0.700000	601.00000
7.333333	0.002296	0.016835	0.700000	611.00000
7.444444	0.002296	0.017090	0.700000	621.00000
7.555556	0.002296	0.017345	0.700000	631.00000
7.666667	0.002296	0.017600	0.700000	641.00000
7.777778	0.002296	0.017855	0.700000	651.00000
7.888889	0.002296	0.018110	0.700000	661.00000
8.000000	0.002296	0.018365	0.700000	671.00000
8.111111	0.002296	0.018621	0.700000	681.00000
8.222222	0.002296	0.018876	0.700000	691.00000
8.333333	0.002296	0.019131	0.700000	701.00000
8.444444	0.002296	0.019386	0.700000	711.00000
8.555556	0.002296	0.019641	0.700000	721.00000
8.666667	0.002296	0.019896	0.700000	731.00000
8.777778	0.002296	0.020151	0.700000	741.00000
8.888889	0.002296	0.020406	0.700000	751.00000
9.000000	0.002296	0.020661	0.700000	761.00000
9.111111	0.002296	0.020916	0.700000	771.00000

9.222222	0.002296	0.021171	0.700000	781.0000
9.333333	0.002296	0.021426	0.700000	791.0000
9.444444	0.002296	0.021681	0.700000	801.0000
9.555556	0.002296	0.021937	0.700000	811.0000
9.666667	0.002296	0.022192	0.700000	821.0000
9.777778	0.002296	0.022447	0.700000	831.0000
9.888889	0.002296	0.022702	0.700000	841.0000

END FTABLE 5  
 FTABLE 12  
 60 5

Depth (ft)	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Outflow2 (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
0.000000	0.377583	0.000000	0.000000	0.000000		
0.076923	0.377583	0.011327	0.000000	0.000000		
0.153846	0.377583	0.022655	0.000000	0.000000		
0.230769	0.377583	0.033982	0.000000	0.000000		
0.307692	0.377583	0.045310	0.000000	0.000000		
0.384615	0.377583	0.056637	0.000000	0.000000		
0.461538	0.377583	0.067965	0.000000	0.000000		
0.538462	0.377583	0.079292	0.000000	0.016573		
0.615385	0.377583	0.090620	0.000000	0.016573		
0.692308	0.377583	0.101947	0.000000	0.020257		
0.769231	0.377583	0.113275	0.000000	0.025065		
0.846154	0.377583	0.124602	0.000000	0.031036		
0.923077	0.377583	0.135930	0.000000	0.031036		
1.000000	0.377583	0.147257	0.000000	0.038073		
1.076923	0.377583	0.158585	0.000000	0.038073		
1.153846	0.377583	0.169912	0.000000	0.038073		
1.230769	0.377583	0.181240	0.000000	0.038073		
1.307692	0.377583	0.192567	0.000000	0.038073		
1.384615	0.377583	0.203895	0.000000	0.038073		
1.461538	0.377583	0.215222	0.067335	0.038073		
1.538462	0.377583	0.226550	0.067335	0.038073		
1.615385	0.377583	0.237877	0.081784	0.038073		
1.692308	0.377583	0.249205	0.088571	0.038073		
1.769231	0.377583	0.260532	0.123335	0.038073		
1.846154	0.377583	0.271860	0.140549	0.038073		
1.923077	0.377583	0.283187	0.159193	0.038073		
2.000000	0.377583	0.294514	0.179303	0.038073		
2.076923	0.377583	0.305842	0.197698	0.038073		
2.153846	0.377583	0.317169	0.206896	0.038073		
2.230769	0.377583	0.328497	0.248418	0.038073		
2.307692	0.377583	0.339824	0.256346	0.038073		
2.384615	0.377583	0.351152	0.291682	0.038073		
2.461538	0.377583	0.362479	0.318537	0.038073		
2.538462	0.377583	0.373807	0.333467	0.038073		
2.615385	0.377583	0.385134	0.365891	0.038073		
2.692308	0.377583	0.396462	0.382102	0.038073		
2.769231	0.377583	0.407789	0.412351	0.038073		
2.846154	0.377583	0.419117	0.427475	0.038073		
2.923077	0.377583	0.430444	0.455142	0.038073		
3.000000	0.377583	0.442498	0.468976	0.038073		
3.076923	0.377583	0.454551	0.494437	0.038073		
3.153846	0.377583	0.466605	0.507168	0.038073		
3.230769	0.377583	0.478659	0.530832	0.038073		
3.307692	0.377583	0.490712	0.542664	0.038073		
3.384615	0.377583	0.502766	0.564854	0.038073		
3.461538	0.377583	0.514819	0.575950	0.038073		
3.538462	0.377583	0.526873	0.596911	0.038073		
3.615385	0.377583	0.538927	0.607391	0.038073		
3.692308	0.377583	0.550980	0.627308	0.038073		
3.769231	0.377583	0.563034	0.651304	0.038073		
3.846154	0.377583	0.575087	0.689752	0.038073		
3.923077	0.377583	0.587141	0.733632	0.038073		
4.000000	0.377583	0.599195	0.778760	0.038073		
4.076923	0.377583	0.611248	0.823288	0.038073		
4.153846	0.377583	0.623302	0.866477	0.038073		
4.230769	0.377583	0.635355	0.908111	0.038073		
4.307692	0.377583	0.647409	0.938166	0.038073		
4.384615	0.377583	0.659463	0.939435	0.038073		

4.461538 0.377583 0.671516 0.940600 0.038073  
 4.500000 0.377583 1.422840 2.013982 0.038073  
 END FTABLE 12  
 FTABLE 11

Depth Time*** (ft) (Minutes)***	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Outflow2 (cfs)	outflow 3 (cfs)	Velocity (ft/sec)	Travel
0.000000	0.377583	0.000000	0.000000	0.000000	0.000000		
0.076923	0.380348	0.029151	0.000000	0.978673	0.000000		
0.153846	0.383122	0.058515	0.000000	0.978673	0.000000		
0.230769	0.385907	0.088093	0.000000	0.978673	0.000000		
0.307692	0.388701	0.117886	0.000000	0.978673	0.000000		
0.384615	0.391505	0.147894	0.000000	0.978673	0.000000		
0.461538	0.394319	0.178118	0.000000	0.978673	0.000000		
0.538462	0.397143	0.208559	0.000000	0.978673	0.000000		
0.615385	0.399977	0.239217	0.000000	0.978673	0.000000		
0.692308	0.402820	0.270094	0.000000	0.978673	0.000000		
0.769231	0.405673	0.301190	0.000000	0.978673	0.000000		
0.846154	0.408536	0.332506	0.000000	0.978673	0.000000		
0.923077	0.411408	0.364042	0.000000	0.978673	0.000000		
1.000000	0.414291	0.395800	0.000000	0.978673	0.000000		
1.076923	0.417183	0.427779	0.000000	0.978673	0.000000		
1.153846	0.420085	0.459982	0.000000	0.978673	0.000000		
1.230769	0.422996	0.492408	0.000000	0.978673	0.000000		
1.307692	0.425918	0.525059	0.000000	0.978673	0.000000		
1.384615	0.428849	0.557934	0.000000	0.978673	0.000000		
1.461538	0.431790	0.591036	0.000000	0.978673	0.000000		
1.538462	0.434741	0.624364	0.120025	0.978673	0.000000		
1.615385	0.437702	0.657920	0.621878	0.978673	0.000000		
1.692308	0.440672	0.691703	1.326139	0.978673	0.000000		
1.769231	0.443652	0.725716	2.152583	0.978673	0.000000		
1.846154	0.446642	0.759958	3.028884	0.978673	0.000000		
1.923077	0.449642	0.794430	3.880926	0.978673	0.000000		
2.000000	0.452652	0.829134	4.639092	0.978673	0.000000		
2.076923	0.455671	0.864069	5.250553	0.978673	0.000000		
2.153846	0.458700	0.899237	5.695301	0.978673	0.000000		
2.230769	0.461739	0.934639	6.005015	0.978673	0.000000		
2.307692	0.464787	0.970275	6.368909	0.978673	0.000000		
2.384615	0.467846	1.006145	6.665294	0.978673	0.000000		
2.461538	0.470914	1.042251	6.949049	0.978673	0.000000		
2.500000	0.472452	1.060393	7.221664	0.978673	0.000000		

END FTABLE 11  
 FTABLE 14  
 60 5

Depth (ft)	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Outflow2 (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
0.000000	0.079201	0.000000	0.000000	0.000000		
0.076923	0.079201	0.002376	0.000000	0.000000		
0.153846	0.079201	0.004752	0.000000	0.000000		
0.230769	0.079201	0.007128	0.000000	0.000000		
0.307692	0.079201	0.009504	0.000000	0.000000		
0.384615	0.079201	0.011880	0.000000	0.000000		
0.461538	0.079201	0.014256	0.000000	0.000000		
0.538462	0.079201	0.016632	0.000000	0.003476		
0.615385	0.079201	0.019008	0.000000	0.003476		
0.692308	0.079201	0.021384	0.000000	0.004249		
0.769231	0.079201	0.023760	0.000000	0.005258		
0.846154	0.079201	0.026136	0.000000	0.006510		
0.923077	0.079201	0.028512	0.000000	0.006510		
1.000000	0.079201	0.030888	0.000000	0.007986		
1.076923	0.079201	0.033264	0.000000	0.007986		
1.153846	0.079201	0.035640	0.000000	0.007986		
1.230769	0.079201	0.038017	0.000000	0.007986		
1.307692	0.079201	0.040393	0.000000	0.007986		
1.384615	0.079201	0.042769	0.000000	0.007986		
1.461538	0.079201	0.045145	0.018201	0.007986		
1.538462	0.079201	0.047521	0.018201	0.007986		
1.615385	0.079201	0.049897	0.024493	0.007986		

1.692308	0.079201	0.052273	0.024493	0.007986
1.769231	0.079201	0.054649	0.032019	0.007986
1.846154	0.079201	0.057025	0.032019	0.007986
1.923077	0.079201	0.059401	0.040847	0.007986
2.000000	0.079201	0.061777	0.040847	0.007986
2.076923	0.079201	0.064153	0.051043	0.007986
2.153846	0.079201	0.066529	0.051043	0.007986
2.230769	0.079201	0.068905	0.062668	0.007986
2.307692	0.079201	0.071281	0.062668	0.007986
2.384615	0.079201	0.073657	0.075782	0.007986
2.461538	0.079201	0.076033	0.075782	0.007986
2.538462	0.079201	0.078409	0.086008	0.007986
2.615385	0.079201	0.080785	0.090056	0.007986
2.692308	0.079201	0.083161	0.102737	0.007986
2.769231	0.079201	0.085537	0.111441	0.007986
2.846154	0.079201	0.087913	0.120577	0.007986
2.923077	0.079201	0.090289	0.130151	0.007986
3.000000	0.079201	0.092818	0.140170	0.007986
3.076923	0.079201	0.095346	0.150639	0.007986
3.153846	0.079201	0.097874	0.161565	0.007986
3.230769	0.079201	0.100403	0.172952	0.007986
3.307692	0.079201	0.102931	0.078490	0.007986
3.384615	0.079201	0.105459	0.198891	0.007986
3.461538	0.079201	0.107988	0.200352	0.007986
3.538462	0.079201	0.110516	0.201044	0.007986
3.615385	0.079201	0.113044	0.201467	0.007986
3.692308	0.079201	0.115573	0.201761	0.007986
3.769231	0.079201	0.118101	0.201980	0.007986
3.846154	0.079201	0.120629	0.202152	0.007986
3.923077	0.079201	0.123158	0.202291	0.007986
4.000000	0.079201	0.125686	0.202407	0.007986
4.076923	0.079201	0.128214	0.202505	0.007986
4.153846	0.079201	0.130743	0.202590	0.007986
4.230769	0.079201	0.133271	0.202665	0.007986
4.307692	0.079201	0.135799	0.202731	0.007986
4.384615	0.079201	0.138328	0.202790	0.007986
4.461538	0.079201	0.140856	0.202844	0.007986
4.500000	0.079201	0.298453	2.013982	0.007986

END FTABLE 14  
 FTABLE 13  
 34 6

Time***	Depth (ft) (Minutes)***	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Outflow2 (cfs)	outflow 3 (cfs)	Velocity (ft/sec)	Travel
0.000000	0.079201	0.000000	0.000000	0.000000	0.000000	0.000000		
0.076923	0.080488	0.006142	0.000000	0.000000	0.209609	0.000000		
0.153846	0.081785	0.012383	0.000000	0.000000	0.210830	0.000000		
0.230769	0.083091	0.018725	0.000000	0.000000	0.210830	0.000000		
0.307692	0.084408	0.025167	0.000000	0.000000	0.210830	0.000000		
0.384615	0.085734	0.031711	0.000000	0.000000	0.210830	0.000000		
0.461538	0.087069	0.038357	0.000000	0.000000	0.210830	0.000000		
0.538462	0.088415	0.045106	0.000000	0.000000	0.210830	0.000000		
0.615385	0.089770	0.051960	0.000000	0.000000	0.210830	0.000000		
0.692308	0.091136	0.058918	0.000000	0.000000	0.210830	0.000000		
0.769231	0.092511	0.065981	0.000000	0.000000	0.210830	0.000000		
0.846154	0.093895	0.073150	0.000000	0.000000	0.210830	0.000000		
0.923077	0.095290	0.080427	0.000000	0.000000	0.210830	0.000000		
1.000000	0.096694	0.087811	0.000000	0.000000	0.210830	0.000000		
1.076923	0.098108	0.095303	0.000000	0.000000	0.210830	0.000000		
1.153846	0.099532	0.102905	0.000000	0.000000	0.210830	0.000000		
1.230769	0.100966	0.110616	0.000000	0.000000	0.210830	0.000000		
1.307692	0.102409	0.118438	0.000000	0.000000	0.210830	0.000000		
1.384615	0.103862	0.126372	0.000000	0.000000	0.210830	0.000000		
1.461538	0.105325	0.134417	0.000000	0.000000	0.210830	0.000000		
1.538462	0.106798	0.142576	0.120025	0.210830	0.000000			
1.615385	0.108281	0.150848	0.621878	0.210830	0.000000			
1.692308	0.109773	0.159235	1.326139	0.210830	0.000000			
1.769231	0.111275	0.167737	2.152583	0.210830	0.000000			
1.846154	0.112787	0.176355	3.028884	0.210830	0.000000			

1.923077	0.114309	0.185089	3.880926	0.210830	0.000000
2.000000	0.115840	0.193941	4.639092	0.210830	0.000000
2.076923	0.117381	0.202911	5.250553	0.210830	0.000000
2.153846	0.118932	0.212000	5.695301	0.210830	0.000000
2.230769	0.120493	0.221209	6.005015	0.210830	0.000000
2.307692	0.122064	0.230538	6.368909	0.210830	0.000000
2.384615	0.123644	0.239988	6.665294	0.210830	0.000000
2.461538	0.125234	0.249560	6.949049	0.210830	0.000000
2.500000	0.126033	0.254393	7.221664	0.210830	0.000000

END FTABLE 13

FTABLE 22

47 5

Depth (ft)	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Outflow2 (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
0.000000	1.084722	0.000000	0.000000	0.000000		
0.098901	1.084722	0.041839	0.000000	0.000000		
0.197802	1.084722	0.083679	0.000000	0.000000		
0.296703	1.084722	0.125518	0.000000	0.000000		
0.395604	1.084722	0.167357	0.000000	0.000000		
0.494505	1.084722	0.209196	0.000000	0.000000		
0.593407	1.084722	0.251036	0.000000	0.000000		
0.692308	1.084722	0.292875	0.000000	0.067725		
0.791209	1.084722	0.334714	0.000000	0.067725		
0.890110	1.084722	0.376554	0.000000	0.089160		
0.989011	1.084722	0.418393	0.000000	0.109376		
1.087912	1.084722	0.460232	0.000000	0.109376		
1.186813	1.084722	0.502071	0.000000	0.109376		
1.285714	1.084722	0.543911	0.000000	0.109376		
1.384615	1.084722	0.585750	0.000000	0.109376		
1.483516	1.084722	0.627589	0.000000	0.109376		
1.582418	1.084722	0.669429	0.000000	0.109376		
1.681319	1.084722	0.711268	0.108047	0.109376		
1.780220	1.084722	0.753107	0.162070	0.109376		
1.879121	1.084722	0.794946	0.234928	0.109376		
1.978022	1.084722	0.836786	0.271356	0.109376		
2.076923	1.084722	0.878625	0.324546	0.109376		
2.175824	1.084722	0.920464	0.351141	0.109376		
2.274725	1.084722	0.962304	0.393845	0.109376		
2.373626	1.084722	1.004143	0.415197	0.109376		
2.472527	1.084722	1.045982	0.451740	0.109376		
2.571429	1.084722	1.087821	0.470011	0.109376		
2.670330	1.084722	1.129661	0.502506	0.109376		
2.769231	1.084722	1.171500	0.518754	0.109376		
2.868132	1.084722	1.213339	0.548344	0.109376		
2.967033	1.084722	1.255179	0.563139	0.109376		
3.065934	1.084722	1.299700	0.590505	0.109376		
3.164835	1.084722	1.344221	0.604189	0.109376		
3.263736	1.084722	1.388742	0.629779	0.109376		
3.362637	1.084722	1.433264	0.642575	0.109376		
3.461538	1.084722	1.477785	0.666701	0.109376		
3.560440	1.084722	1.522306	0.678765	0.109376		
3.659341	1.084722	1.566828	0.701658	0.109376		
3.758242	1.084722	1.611349	0.713104	0.109376		
3.857143	1.084722	1.655870	0.734937	0.109376		
3.956044	1.084722	1.700391	0.766326	0.109376		
4.054945	1.084722	1.744913	0.810909	0.109376		
4.153846	1.084722	1.789434	0.860288	0.109376		
4.252747	1.084722	1.833955	0.910597	0.109376		
4.351648	1.084722	1.878477	0.960190	0.109376		
4.450549	1.084722	1.922998	1.008670	0.109376		
4.500000	1.084722	4.085043	2.013982	0.109376		

END FTABLE 22

FTABLE 21

47 6

Depth (ft)	Area (acres)	Volume (acre-ft)	Outflow1 (cfs)	Outflow2 (cfs)	outflow 3 (cfs)	Velocity (ft/sec)	Travel Time*** (Minutes)***
0.000000	1.084722	0.000000	0.000000	0.000000	0.000000		
0.098901	1.091698	0.107625	0.000000	1.118046	0.000000		

0.197802	1.098691	0.215941	0.000000	1.118046	0.000000
0.296703	1.105699	0.324949	0.000000	1.118046	0.000000
0.395604	1.112724	0.434652	0.000000	1.118046	0.000000
0.494505	1.119764	0.545049	0.000000	1.118046	0.000000
0.593407	1.126821	0.656144	0.000000	1.118046	0.000000
0.692308	1.133895	0.767938	0.000000	1.118046	0.000000
0.791209	1.140984	0.880432	0.000000	1.118046	0.000000
0.890110	1.148089	0.993628	0.000000	1.118046	0.000000
0.989011	1.155211	1.107527	0.000000	1.118046	0.000000
1.087912	1.162349	1.222132	0.000000	1.118046	0.000000
1.186813	1.169503	1.337443	0.000000	1.118046	0.000000
1.285714	1.176673	1.453463	0.000000	1.118046	0.000000
1.384615	1.183859	1.570193	0.000000	1.118046	0.000000
1.483516	1.191062	1.687634	0.000000	1.118046	0.000000
1.582418	1.198280	1.805788	1.121841	1.118046	0.000000
1.681319	1.205515	1.924657	1.663959	1.118046	0.000000
1.780220	1.212766	2.044242	2.068572	1.118046	0.000000
1.879121	1.220033	2.164545	2.406080	1.118046	0.000000
1.978022	1.227316	2.285568	2.701750	1.118046	0.000000
2.076923	1.234616	2.407312	2.968111	1.118046	0.000000
2.175824	1.241931	2.529779	3.212463	1.118046	0.000000
2.274725	1.249263	2.652970	3.439498	1.118046	0.000000
2.373626	1.256611	2.776887	3.652448	1.118046	0.000000
2.472527	1.263975	2.901531	3.853649	1.118046	0.000000
2.571429	1.271356	3.026905	4.044854	1.118046	0.000000
2.670330	1.278752	3.153009	4.227419	1.118046	0.000000
2.769231	1.286165	3.279845	4.402420	1.118046	0.000000
2.868132	1.293594	3.407416	4.570726	1.118046	0.000000
2.967033	1.301039	3.535722	4.733051	1.118046	0.000000
3.065934	1.308500	3.664765	4.889990	1.118046	0.000000
3.164835	1.315977	3.794547	5.042046	1.118046	0.000000
3.263736	1.323471	3.925069	5.189650	1.118046	0.000000
3.362637	1.330980	4.056333	5.333169	1.118046	0.000000
3.461538	1.338506	4.188340	5.472927	1.118046	0.000000
3.560440	1.346048	4.321093	6.239984	1.118046	0.000000
3.659341	1.353606	4.454593	8.439662	1.118046	0.000000
3.758242	1.361180	4.588840	11.43044	1.118046	0.000000
3.857143	1.368771	4.723838	15.01764	1.118046	0.000000
3.956044	1.376378	4.859587	19.08267	1.118046	0.000000
4.054945	1.384000	4.996089	23.52803	1.118046	0.000000
4.153846	1.391639	5.133346	28.26124	1.118046	0.000000
4.252747	1.399295	5.271359	33.18910	1.118046	0.000000
4.351648	1.406966	5.410130	38.21611	1.118046	0.000000
4.450549	1.414653	5.549661	43.24515	1.118046	0.000000
4.500000	1.418503	5.619712	48.17944	1.118046	0.000000

END FTABLE 21

END FTABLES

EXT SOURCES

<-Volume->	<Member>	SsysSgap	<--Mult-->	Tran	<-Target	vols>	<-Grp>	<-Member-->	***			
<Name>	#	<Name>	#	tem	strg	<-factor-->	strg	<Name>	#	#	***	
WDM	2	PREC		ENGL	1			PERLND	1	999	EXTNL	PREC
WDM	2	PREC		ENGL	1			IMPLND	1	999	EXTNL	PREC
WDM	1	EVAP		ENGL	1			PERLND	1	999	EXTNL	PETINP
WDM	1	EVAP		ENGL	1			IMPLND	1	999	EXTNL	PETINP
WDM	22	IRRG		ENGL	0.7		SAME	PERLND	53		EXTNL	SURLI
WDM	22	IRRG		ENGL	0.7		SAME	PERLND	55		EXTNL	SURLI
WDM	22	IRRG		ENGL	0.7		SAME	PERLND	56		EXTNL	SURLI
WDM	22	IRRG		ENGL	0.7		SAME	PERLND	57		EXTNL	SURLI
WDM	22	IRRG		ENGL	0.7		SAME	PERLND	58		EXTNL	SURLI
WDM	22	IRRG		ENGL	0.7		SAME	PERLND	59		EXTNL	SURLI
WDM	22	IRRG		ENGL	0.7		SAME	PERLND	60		EXTNL	SURLI
WDM	22	IRRG		ENGL	0.7		SAME	PERLND	61		EXTNL	SURLI
WDM	22	IRRG		ENGL	0.7		SAME	PERLND	54		EXTNL	SURLI
WDM	22	IRRG		ENGL	0.7		SAME	PERLND	62		EXTNL	SURLI
WDM	22	IRRG		ENGL	0.7		SAME	PERLND	63		EXTNL	SURLI
WDM	22	IRRG		ENGL	0.7		SAME	PERLND	64		EXTNL	SURLI
WDM	2	PREC		ENGL	1			RCHRES	6		EXTNL	PREC
WDM	2	PREC		ENGL	1			RCHRES	8		EXTNL	PREC
WDM	2	PREC		ENGL	1			RCHRES	9		EXTNL	PREC

WDM	2	PREC	ENGL	1	RCHRES	11	EXTNL	PREC
WDM	2	PREC	ENGL	1	RCHRES	13	EXTNL	PREC
WDM	2	PREC	ENGL	1	RCHRES	16	EXTNL	PREC
WDM	2	PREC	ENGL	1	RCHRES	17	EXTNL	PREC
WDM	2	PREC	ENGL	1	RCHRES	18	EXTNL	PREC
WDM	2	PREC	ENGL	1	RCHRES	20	EXTNL	PREC
WDM	2	PREC	ENGL	1	RCHRES	21	EXTNL	PREC
WDM	2	PREC	ENGL	1	RCHRES	23	EXTNL	PREC
WDM	2	PREC	ENGL	1	RCHRES	24	EXTNL	PREC
WDM	1	EVAP	ENGL	0.5	RCHRES	6	EXTNL	POTEV
WDM	1	EVAP	ENGL	0.7	RCHRES	7	EXTNL	POTEV
WDM	1	EVAP	ENGL	1	RCHRES	8	EXTNL	POTEV
WDM	1	EVAP	ENGL	0.5	RCHRES	9	EXTNL	POTEV
WDM	1	EVAP	ENGL	0.7	RCHRES	10	EXTNL	POTEV
WDM	1	EVAP	ENGL	0.5	RCHRES	11	EXTNL	POTEV
WDM	1	EVAP	ENGL	0.7	RCHRES	12	EXTNL	POTEV
WDM	1	EVAP	ENGL	0.5	RCHRES	13	EXTNL	POTEV
WDM	1	EVAP	ENGL	0.7	RCHRES	14	EXTNL	POTEV
WDM	1	EVAP	ENGL	1	RCHRES	16	EXTNL	POTEV
WDM	1	EVAP	ENGL	1	RCHRES	17	EXTNL	POTEV
WDM	1	EVAP	ENGL	0.5	RCHRES	18	EXTNL	POTEV
WDM	1	EVAP	ENGL	0.7	RCHRES	19	EXTNL	POTEV
WDM	1	EVAP	ENGL	1	RCHRES	20	EXTNL	POTEV
WDM	1	EVAP	ENGL	0.5	RCHRES	21	EXTNL	POTEV
WDM	1	EVAP	ENGL	0.7	RCHRES	22	EXTNL	POTEV
WDM	1	EVAP	ENGL	1	RCHRES	23	EXTNL	POTEV
WDM	1	EVAP	ENGL	1	RCHRES	24	EXTNL	POTEV

END EXT SOURCES

EXT TARGETS

<-Volume->	<-Grp>	<-Member->	<--Mult-->	Tran	<-Volume->	<Member>	Tsys	Tgap	Amd	***	
<Name>	#	<Name>	#	#<-factor-->	strg	<Name>	#	<Name>	tem	strg	strg***
RCHRES	7	HYDR	RO	1	1	1	WDM	1000	FLOW	ENGL	REPL
RCHRES	7	HYDR	O	1	1	1	WDM	1001	FLOW	ENGL	REPL
RCHRES	7	HYDR	O	2	1	1	WDM	1002	FLOW	ENGL	REPL
RCHRES	7	HYDR	STAGE	1	1	1	WDM	1003	STAG	ENGL	REPL
RCHRES	6	HYDR	STAGE	1	1	1	WDM	1004	STAG	ENGL	REPL
RCHRES	6	HYDR	O	1	1	1	WDM	1005	FLOW	ENGL	REPL
COPY	1	OUTPUT	MEAN	1	1	48.4	WDM	701	FLOW	ENGL	REPL
COPY	501	OUTPUT	MEAN	1	1	48.4	WDM	801	FLOW	ENGL	REPL
RCHRES	16	HYDR	RO	1	1	1	WDM	1006	FLOW	ENGL	REPL
RCHRES	16	HYDR	O	1	1	1	WDM	1007	FLOW	ENGL	REPL
RCHRES	16	HYDR	O	2	1	1	WDM	1008	FLOW	ENGL	REPL
RCHRES	16	HYDR	STAGE	1	1	1	WDM	1009	STAG	ENGL	REPL
RCHRES	17	HYDR	RO	1	1	1	WDM	1010	FLOW	ENGL	REPL
RCHRES	17	HYDR	O	1	1	1	WDM	1011	FLOW	ENGL	REPL
RCHRES	17	HYDR	O	2	1	1	WDM	1012	FLOW	ENGL	REPL
RCHRES	17	HYDR	STAGE	1	1	1	WDM	1013	STAG	ENGL	REPL
RCHRES	24	HYDR	RO	1	1	1	WDM	1038	FLOW	ENGL	REPL
RCHRES	24	HYDR	STAGE	1	1	1	WDM	1039	STAG	ENGL	REPL
RCHRES	4	HYDR	RO	1	1	1	WDM	1040	FLOW	ENGL	REPL
RCHRES	4	HYDR	O	1	1	1	WDM	1041	FLOW	ENGL	REPL
RCHRES	4	HYDR	O	2	1	1	WDM	1042	FLOW	ENGL	REPL
RCHRES	4	HYDR	STAGE	1	1	1	WDM	1043	STAG	ENGL	REPL
COPY	2	OUTPUT	MEAN	1	1	48.4	WDM	702	FLOW	ENGL	REPL
COPY	502	OUTPUT	MEAN	1	1	48.4	WDM	802	FLOW	ENGL	REPL
RCHRES	5	HYDR	RO	1	1	1	WDM	1044	FLOW	ENGL	REPL
RCHRES	5	HYDR	O	1	1	1	WDM	1045	FLOW	ENGL	REPL
RCHRES	5	HYDR	O	2	1	1	WDM	1046	FLOW	ENGL	REPL
RCHRES	5	HYDR	STAGE	1	1	1	WDM	1047	STAG	ENGL	REPL
RCHRES	12	HYDR	RO	1	1	1	WDM	1048	FLOW	ENGL	REPL
RCHRES	12	HYDR	O	1	1	1	WDM	1049	FLOW	ENGL	REPL
RCHRES	12	HYDR	O	2	1	1	WDM	1050	FLOW	ENGL	REPL
RCHRES	12	HYDR	STAGE	1	1	1	WDM	1051	STAG	ENGL	REPL
RCHRES	11	HYDR	STAGE	1	1	1	WDM	1052	STAG	ENGL	REPL
RCHRES	11	HYDR	O	1	1	1	WDM	1053	FLOW	ENGL	REPL
RCHRES	14	HYDR	RO	1	1	1	WDM	1054	FLOW	ENGL	REPL
RCHRES	14	HYDR	O	1	1	1	WDM	1055	FLOW	ENGL	REPL
RCHRES	14	HYDR	O	2	1	1	WDM	1056	FLOW	ENGL	REPL



RCHRES	14	HYDR	STAGE	1	1	1	WDM	1057	STAG	ENGL	REPL
RCHRES	13	HYDR	STAGE	1	1	1	WDM	1058	STAG	ENGL	REPL
RCHRES	13	HYDR	O	1	1	1	WDM	1059	FLOW	ENGL	REPL
RCHRES	22	HYDR	RO	1	1	1	WDM	1060	FLOW	ENGL	REPL
RCHRES	22	HYDR	O	1	1	1	WDM	1061	FLOW	ENGL	REPL
RCHRES	22	HYDR	O	2	1	1	WDM	1062	FLOW	ENGL	REPL
RCHRES	22	HYDR	STAGE	1	1	1	WDM	1063	STAG	ENGL	REPL
RCHRES	21	HYDR	STAGE	1	1	1	WDM	1064	STAG	ENGL	REPL
RCHRES	21	HYDR	O	1	1	1	WDM	1065	FLOW	ENGL	REPL

END EXT TARGETS

MASS-LINK

<Volume>	<-Grp>	<-Member->	<--Mult-->	<Target>	<-Grp>	<-Member->***
<Name>		<Name> #	#<-factor->	<Name>		<Name> # #***
MASS-LINK		2				
PERLND	PWATER	SURO	0.083333	RCHRES	INFLOW	IVOL
END MASS-LINK		2				
MASS-LINK		3				
PERLND	PWATER	IFWO	0.083333	RCHRES	INFLOW	IVOL
END MASS-LINK		3				
MASS-LINK		5				
IMPLND	IWATER	SURO	0.083333	RCHRES	INFLOW	IVOL
END MASS-LINK		5				
MASS-LINK		6				
RCHRES	ROFLOW			RCHRES	INFLOW	
END MASS-LINK		6				
MASS-LINK		7				
RCHRES	OFLOW	OVOL	1	RCHRES	INFLOW	IVOL
END MASS-LINK		7				
MASS-LINK		8				
RCHRES	OFLOW	OVOL	2	RCHRES	INFLOW	IVOL
END MASS-LINK		8				
MASS-LINK		12				
PERLND	PWATER	SURO	0.083333	COPY	INPUT	MEAN
END MASS-LINK		12				
MASS-LINK		13				
PERLND	PWATER	IFWO	0.083333	COPY	INPUT	MEAN
END MASS-LINK		13				
MASS-LINK		15				
IMPLND	IWATER	SURO	0.083333	COPY	INPUT	MEAN
END MASS-LINK		15				
MASS-LINK		16				
RCHRES	ROFLOW			COPY	INPUT	MEAN
END MASS-LINK		16				
MASS-LINK		17				
RCHRES	OFLOW	OVOL	1	COPY	INPUT	MEAN
END MASS-LINK		17				
MASS-LINK		18				
RCHRES	OFLOW	OVOL	2	COPY	INPUT	MEAN
END MASS-LINK		18				

END MASS-LINK

END RUN

*Predeveloped HSPF Message File*

## Mitigated HSPF Message File

ERROR/WARNING ID: 341 6

DATE/TIME: 1978/ 3/ 4 14:15

RCHRES: 2

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition.

Relevant data are:

NROWS	V1	V2	VOL
90	977.79	988.90	1485.0

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1978/ 3/ 4 14:15

RCHRES: 2

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT
0.0000E+00	200.03	-9.134E+03	45.662	4.5662E+01	2

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1978/ 3/ 4 14:15

RCHRES: 3

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition.

Relevant data are:

NROWS	V1	V2	VOL
90	9.7779E+02	988.90	1646.9

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1978/ 3/ 4 14:15

RCHRES: 3

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT
0.0000E+00	200.03	-1.205E+04	60.234	6.0234E+01	2

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1978/ 3/ 4 14:15

RCHRES: 23

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	5.0031E+05	5.0663E+05	7.5580E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1978/ 3/ 4 14:15

RCHRES: 23

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT
2.8488E+02	2.2713E+05	-9.198E+06	38.624	38.624	4

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1978/ 3/ 4 14:30

RCHRES: 23

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	5.0031E+05	5.0663E+05	1.1434E+06

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1978/ 3/ 4 14:30

RCHRES: 23

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT
2.8488E+02	2.2713E+05	-2.315E+07	91.437	9.1437E+01	4

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1978/ 3/ 4 14:45

RCHRES: 23

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	5.0031E+05	5.0663E+05	7.7958E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1978/ 3/ 4 14:45

RCHRES: 23

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT	
2.8488E+02	2.2713E+05	-1.005E+07	42.047	42.047		4

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1978/ 3/ 4 15: 0

RCHRES: 23

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	5.0031E+05	5.0663E+05	5.9026E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1978/ 3/ 4 15: 0

RCHRES: 23

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT	
2.8488E+02	2.2713E+05	-3.238E+06	14.011	14.011		3

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1978/ 3/ 4 14:30

RCHRES: 24

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	4.8190E+05	4.8795E+05	7.2344E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1978/ 3/ 4 14:30

RCHRES: 24

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0).

Probably ftable was extrapolated. If extrapolation was small, no problem.  
Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT	
2.6188E+02	2.1764E+05	-8.696E+06	38.200	3.8200E+01		4

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1978/ 3/ 4 14:45

RCHRES: 24

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition.  
Relevant data are:

NROWS	V1	V2	VOL
91	4.8190E+05	4.8795E+05	1.0363E+06

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1978/ 3/ 4 14:45

RCHRES: 24

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem.  
Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT	
2.6188E+02	2.1764E+05	-1.996E+07	83.347	83.347		4

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1978/ 3/ 4 15: 0

RCHRES: 24

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition.  
Relevant data are:

NROWS	V1	V2	VOL
91	4.8190E+05	4.8795E+05	1.0288E+06

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1978/ 3/ 4 15: 0

RCHRES: 24

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem.  
Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT	
2.6188E+02	2.1764E+05	-1.969E+07	82.310	82.310		4

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1978/ 3/ 4 15:15

RCHRES: 24

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	4.8190E+05	4.8795E+05	8.8741E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1978/ 3/ 4 15:15

RCHRES: 24

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT	
2.6188E+02	2.1764E+05	-1.460E+07	62.394	62.394		4

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1978/ 3/ 4 15:30

RCHRES: 24

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	4.8190E+05	4.8795E+05	7.0145E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1978/ 3/ 4 15:30

RCHRES: 24

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT	
2.6188E+02	2.1764E+05	-7.904E+06	34.856	34.856		4

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1978/ 3/ 4 15:45

RCHRES: 24

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS V1 V2 VOL  
91 4.8190E+05 4.8795E+05 5.4042E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1978/ 3/ 4 15:45

RCHRES: 24

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT	
2.6188E+02	2.1764E+05	-2.107E+06	9.5698	9.5698	9.5698	3

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1980/ 1/30 11:45

RCHRES: 23

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS V1 V2 VOL  
91 5.0031E+05 5.0663E+05 5.7894E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1980/ 1/30 11:45

RCHRES: 23

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT	
2.8488E+02	2.2713E+05	-2.831E+06	12.274	1.2274E+01	1.2274E+01	3

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1980/ 1/30 17: 0

RCHRES: 23

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS V1 V2 VOL  
91 5.0031E+05 5.0663E+05 9.5766E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1980/ 1/30 17: 0

RCHRES: 23



Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT	
2.8488E+02	2.2713E+05	-1.646E+07	66.880	66.880		4

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1980/ 1/30 17:15

RCHRES: 23

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	5.0031E+05	5.0663E+05	9.1796E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1980/ 1/30 17:15

RCHRES: 23

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT	
2.8488E+02	2.2713E+05	-1.504E+07	61.459	6.1459E+01		4

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1980/ 1/30 17:30

RCHRES: 23

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	5.0031E+05	5.0663E+05	7.2095E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1980/ 1/30 17:30

RCHRES: 23

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT	
2.8488E+02	2.2713E+05	-7.943E+06	33.559	33.559		4

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1980/ 1/30 17:45

RCHRES: 23

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	5.0031E+05	5.0663E+05	6.1822E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1980/ 1/30 17:45

RCHRES: 23

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT
2.8488E+02	2.2713E+05	-4.245E+06	18.271	1.8271E+01	3

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1980/ 1/30 18: 0

RCHRES: 23

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	5.0031E+05	5.0663E+05	6.4067E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1980/ 1/30 18: 0

RCHRES: 23

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT
2.8488E+02	2.2713E+05	-5.053E+06	21.660	2.1659E+01	3

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1980/ 1/30 18:15

RCHRES: 23

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the

simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	5.0031E+05	5.0663E+05	6.4108E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1980/ 1/30 18:15

RCHRES: 23

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT
2.8488E+02	2.2713E+05	-5.068E+06	21.720	2.1720E+01	3

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1980/ 1/30 18:30

RCHRES: 23

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	5.0031E+05	5.0663E+05	5.1019E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1980/ 1/30 18:30

RCHRES: 23

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT
2.8488E+02	2.2713E+05	-3.559E+05	1.5640	1.5640E+00	3

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1980/ 1/30 17:15

RCHRES: 24

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	4.8190E+05	4.8795E+05	8.4768E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1980/ 1/30 17:15

RCHRES: 24

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT	
2.6188E+02	2.1764E+05	-1.317E+07	56.645	56.645		4

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1980/ 1/30 17:30

RCHRES: 24

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	4.8190E+05	4.8795E+05	1.0098E+06

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1980/ 1/30 17:30

RCHRES: 24

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT	
2.6188E+02	2.1764E+05	-1.901E+07	79.686	79.686		4

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1980/ 1/30 17:45

RCHRES: 24

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	4.8190E+05	4.8795E+05	1.0010E+06

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1980/ 1/30 17:45

RCHRES: 24

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT	
2.6188E+02	2.1764E+05	-1.869E+07	78.457	78.457		4

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1980/ 1/30 18: 0

RCHRES: 24

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	4.8190E+05	4.8795E+05	9.6626E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1980/ 1/30 18: 0

RCHRES: 24

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT	
2.6188E+02	2.1764E+05	-1.744E+07	73.602	73.602		4

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1980/ 1/30 18:15

RCHRES: 24

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	4.8190E+05	4.8795E+05	9.5016E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1980/ 1/30 18:15

RCHRES: 24

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT	
2.6188E+02	2.1764E+05	-1.686E+07	71.335	71.335		4

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1980/ 1/30 18:30

RCHRES: 24

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	4.8190E+05	4.8795E+05	8.8912E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1980/ 1/30 18:30

RCHRES: 24

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT
2.6188E+02	2.1764E+05	-1.466E+07	62.640	62.640	4

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1980/ 1/30 18:45

RCHRES: 24

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	4.8190E+05	4.8795E+05	7.5925E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1980/ 1/30 18:45

RCHRES: 24

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT
2.6188E+02	2.1764E+05	-9.985E+06	43.593	4.3593E+01	4

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1980/ 1/30 19: 0

RCHRES: 24

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
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91 4.8190E+05 4.8795E+05 6.1072E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1980/ 1/30 19: 0

RCHRES: 24

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT
2.6188E+02	2.1764E+05	-4.638E+06	20.789	2.0789E+01	3

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1995/ 1/10 15:30

RCHRES: 23

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	5.0031E+05	5.0663E+05	5.5147E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1995/ 1/10 15:30

RCHRES: 23

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT
2.8488E+02	2.2713E+05	-1.842E+06	8.0284	8.0284	3

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1995/ 1/10 15:45

RCHRES: 23

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	5.0031E+05	5.0663E+05	5.0949E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1995/ 1/10 15:45

RCHRES: 23

Calculation of relative depth, using Newton's method of successive

approximations, converged to an invalid value (not in range 0.0 to 1.0).  
Probably ftable was extrapolated. If extrapolation was small, no problem.  
Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT	
2.8488E+02	2.2713E+05	-3.304E+05	1.4522	1.4522		3

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1995/ 2/13 14:15

RCHRES: 23

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition.  
Relevant data are:

NROWS	V1	V2	VOL
91	5.0031E+05	5.0663E+05	5.9862E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1995/ 2/13 14:15

RCHRES: 23

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0).  
Probably ftable was extrapolated. If extrapolation was small, no problem.  
Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT	
2.8488E+02	2.2713E+05	-3.539E+06	15.289	15.289		3

---

ERROR/WARNING ID: 341 6

DATE/TIME: 1998/ 2/23 19:45

RCHRES: 23

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition.  
Relevant data are:

NROWS	V1	V2	VOL
91	5.0031E+05	5.0663E+05	5.0840E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1998/ 2/23 19:45

RCHRES: 23

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0).  
Probably ftable was extrapolated. If extrapolation was small, no problem.  
Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT	
2.8488E+02	2.2713E+05	-2.912E+05	1.2806	1.2798E+00		2

---

ERROR/WARNING ID: 341 6



DATE/TIME: 1998/ 2/23 20: 0

RCHRES: 23

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	5.0031E+05	5.0663E+05	5.1335E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 1998/ 2/23 20: 0

RCHRES: 23

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT
2.8488E+02	2.2713E+05	-4.695E+05	2.0617	2.0617E+00	3

---

ERROR/WARNING ID: 341 6

DATE/TIME: 2003/ 2/25 7:15

RCHRES: 23

The volume of water in this reach/mixed reservoir is greater than the value in the "volume" column of the last row of RCHTAB(). To continue the simulation the table has been extrapolated, based on information contained in the last two rows. This will usually result in some loss of accuracy. If depth is being calculated it will also cause an error condition. Relevant data are:

NROWS	V1	V2	VOL
91	5.0031E+05	5.0663E+05	5.3759E+05

---

ERROR/WARNING ID: 341 5

DATE/TIME: 2003/ 2/25 7:15

RCHRES: 23

Calculation of relative depth, using Newton's method of successive approximations, converged to an invalid value (not in range 0.0 to 1.0). Probably ftable was extrapolated. If extrapolation was small, no problem. Remedy; extend ftable. Relevant data are:

A	B	C	RDEP1	RDEP2	COUNT
2.8488E+02	2.2713E+05	-1.342E+06	5.8658	5.8658E+00	3

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