



1221.0031  
July 13, 2022

## PROJECT COMPARISON ANALYSIS BLOCK 44, LOT 15.04 - AMENDED PHASE 3

The subject property, formally part of Lot 15.01 received Final Major Subdivision approval under Application #2021-261 on July 19, 2021. The plat was filed with the Ocean County Clerk's office on December 23, 2021, map J4299 and Lot 15.04 was subsequently created.

As part of Application #2021-261, Preliminary Major Site Plan approval was granted for the area to be known as Lot 15.04 and identified as Phase 3. The Phase 3 approval consisted of an eighteen thousand (18,000) square foot one story commercial pad, 240 ft. wide by 75 ft. long, with a full movement access drive off of the proposed Commonwealth Boulevard extension to a parking lot containing one hundred forty-two (142) parking stalls.

The amended Phase 3 application proposes a three-story self-storage facility, 240 ft. wide by 125 ft. long. Site access would remain off of the proposed Commonwealth Boulevard extension to a parking lot containing twenty (20) parking stalls.

A project comparison analysis between the approved Phase 3 design and proposed amended Phase 3 design is provided below. The analysis includes a comparison of the site coverage, trip generation, parking demand, sanitary demand, water distribution system demand and stormwater management.

### **SITE COVERAGE**

*Table 1: Site Coverage – Phase 3 Disturbance Area*

	Approved Area (Ac)	Approved Coverage (%)	Proposed Area (Ac)	Proposed Coverage (%)
Impervious Area	2.03 Ac	75%	1.52 Ac	57%
Open Area	0.66 Ac	25%	1.01 Ac	37%
Wooded Area	-	-	0.16 Ac	6%
Total Area	2.69 Ac	100%	2.69 Ac	100%

The proposed design reduces the impervious coverage by eighteen (18) percent while increasing the open and wooded areas proposed onsite.

## **TRIP GENERATION**

*Table 2: Trip Generation – Phase 3*

	Weekday Morning Peak Hour			Weekday Evening Peak Hour			Saturday Midday Peak Hour		
	Enter	Exit	Total	Enter	Exit	Total	Enter	Exit	Total
Approved	25	17	42	59	60	119	60	58	118
Proposed	5	3	8	6	8	14	9	6	15
Trip Difference	-20	-14	-34	-53	-52	-105	-51	-52	-103

The proposed design involves a less intense use which reduces the anticipated peak hour trips to and from the site. The weekday morning trips have an 81% anticipated reduction, the weekday evening trips have an 88% anticipated reduction, and the Saturday midday trips have an 87% reduction.

## **PARKING DEMAND**

*Table 3: Parking Demand – Phase 3*

	Approved		Proposed	
	Required	Provided	Required	Provided
Total	90	142	18	20
ADA	6	6	2	2
EV	0	4	1	2

The proposed design involves a less intense use which reduces the number of required onsite parking spaces. ADA Handicap Accessible parking spaces and Electric Vehicular (EV) charging station spaces have been provided within the proposed design as required.

## **SANITARY DEMAND**

The sanitary sewer demand was determined utilizing New Jersey regulations N.J.A.C. 7:14A-23.3 projected flow criteria. The estimated average daily flow for the approved and proposed designs are provided below.

### *Average daily flow*

Approved Use: 18,000 SF commercial retail pad

Stores / Shopping Center = 0.1 gpd per SF

$$18,000 \text{ SF} \times 0.1 \text{ gpd} = 1,800 \text{ gpd}$$

### Proposed Use:

Self-Storage Facility with 1,200 SF rental office

Office building = 0.1 gpd per SF

$$1,200 \text{ SF} \times 0.1 \text{ gpd} = 120 \text{ gpd}$$

The sanitary demand associated with the proposed design is 93% less than the approved design, which results in less sewage discharging to the Townships sanitary mains and ultimately the Ocean County Utility Authorities Central Treatment Plant.

## **WATER DISTRIBUTION SYSTEM DEMAND**

The water distribution system demand was determined utilizing New Jersey Safe Drinking Water Act regulations N.J.A.C. 7:10 section 12.6. The estimated average daily demand for the approved and proposed designs are provided below.

### *Average daily flow*

Approved Use: 18,000 SF commercial retail pad  
 Store, office building = 0.125 gpd per SF  
 $18,000 \text{ SF} \times 0.125 \text{ gpd} = 2,250 \text{ gpd}$

### Proposed Use:

Self-Storage Facility with 1,200 SF rental office  
 Store, office building = 0.125 gpd per SF  
 $1,200 \text{ SF} \times 0.125 \text{ gpd} = 150 \text{ gpd}$

The water demand associated with the proposed design is 93% less than the approved design, which results in less water demand on Manchester's water sources and allocation limits.

## **STORMWATER MANAGEMENT**

The majority of the stormwater runoff associated with the approved design discharges to a proposed Infiltration / Detention basin along the Rt 37 site frontage, identified as Basin 1, with minor bypass areas discharging to proposed catch basin inlets #38, #39 and an existing sump area onsite.

The stormwater runoff associated with the proposed amended design remains as previously approved with a majority discharging to Basin 1 along the Rt 37 site frontage along with minor bypass areas discharging to proposed catch basin inlets #38, #39 and an existing sump area onsite. In addition, four (4) bioretention gardens have been proposed to further increase the Green Infrastructure provided onsite.

*Table 4: Peak Discharge to Points of Analysis – Phase 3 Disturbance Area*

POA: Basin 1

Storm Event	Approved Phase 3	Proposed Amended Phase 3
Water Quality (1yr)	6.43 cfs	2.44 cfs
2 yr.	7.39 cfs	6.38 cfs
10 yr.	11.60 cfs	10.78 cfs
100 yr.	20.77 cfs	20.00 cfs

## POA: CB 38

<b>Storm Event</b>	<b>Approved Phase 3</b>	<b>Proposed Amended Phase 3</b>
Water Quality (1yr)	0.0 cfs	0.0 cfs
2 yr.	0.0 cfs	0.0 cfs
10 yr.	0.0 cfs	0.0 cfs
100 yr.	0.07 cfs	0.07 cfs

## POA: CB 39

<b>Storm Event</b>	<b>Approved Phase 3</b>	<b>Proposed Amended Phase 3</b>
Water Quality (1yr)	0.09 cfs	0.09 cfs
2 yr.	0.11 cfs	0.11 cfs
10 yr.	0.17 cfs	0.17 cfs
100 yr.	0.38 cfs	0.33 cfs

## POA: Ex Sump 2,3,4

<b>Storm Event</b>	<b>Approved Phase 3</b>	<b>Proposed Amended Phase 3</b>
Water Quality (1yr)	0.0 cfs	0.0 cfs
2 yr.	0.0 cfs	0.0 cfs
10 yr.	0.0 cfs	0.0 cfs
100 yr.	0.06 cfs	0.17 cfs

Note: Infiltration was not utilized in the stormwater routings, for consistency with the approved stormwater management design under Application #2021-261

The stormwater peak runoff rates to the four (4) points of analysis for each of the storm events are all equal to or less than the approved rates under application #2021-261 with the exception of the 100 yr storm event to existing sump area. The increase is negligible and is due to the preservation of wooded area within the proposed design. The calculations were based on the Unit Hydrograph Method and the supporting Pondpack hydrograph results are enclosed.

*Table 5: 2 yr. Storm Event Hydrograph Volume – Phase 3 Disturbance Area*

<b>POA</b>	<b>Approved Phase 3</b>	<b>Proposed Amended Phase 3</b>
Basin 1	0.925 ac-ft	0.653 ac-ft
CB 38	0.0 ac-ft	0.0 ac-ft
CB 39	0.013 ac-ft	0.008 ac-ft
Ex Sump 2,3,4	0.0 ac-ft	0.0 ac-ft
Total	0.938 ac-ft	0.661 ac-ft

Total stormwater runoff volume is less than the approved volume under application #2021-261.

## **SUMMARY**

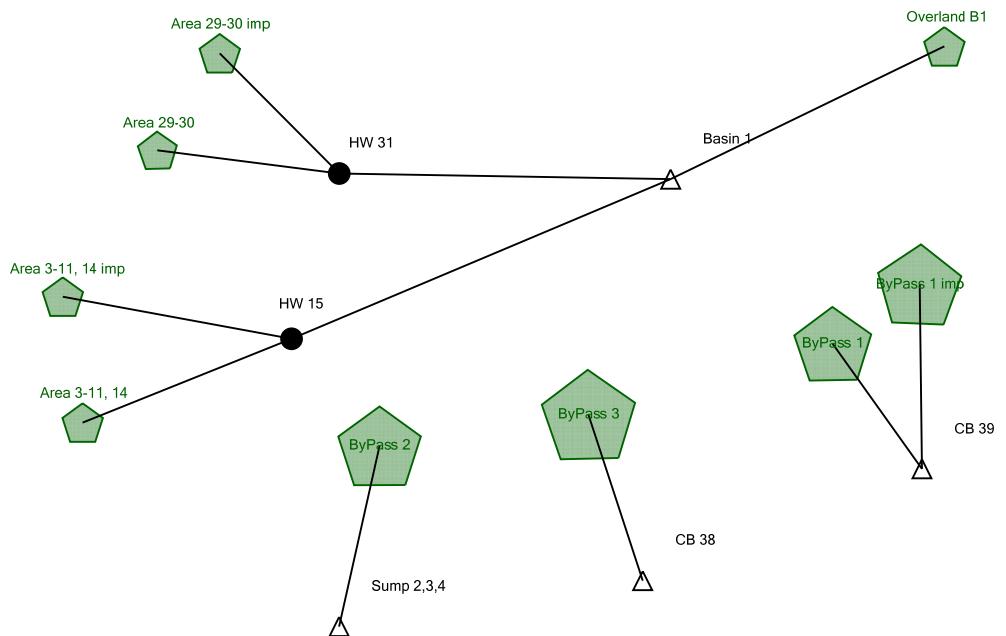
The comparison analysis has demonstrated that the amended Phase 3 application design reduces the amount of impervious coverage onsite, significantly lowers the anticipated trip traffic to and from the site, warrants less parking, lessens the average daily sanitary and water distribution demands and generates peak stormwater runoff rates equal to or less than the approved phase 3 design in addition to producing less stormwater runoff volume.

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## APPENDIX A

## **Scenario: APPROVED PHASE 3 STORMWATER RUNOFF**



## Table of Contents

	Master Network Summary	1
Ocean - NOAA D		
	Time-Depth Curve, 100 years (Ocean - Synthetic Curve, 100yrs)	4
	Time-Depth Curve, 10 years (Ocean - Synthetic Curve, 10yrs)	6
WQ		
	Time-Depth Curve, 1 years (Ocean - Time-Depth Curve, 1 yrs)	8
Ocean - NOAA D		
	Time-Depth Curve, 2 years (Ocean - Synthetic Curve, 2 yrs)	9
Area 29-30		
	Time of Concentration Calculations, 1 years (Ocean - Time-Depth Curve, 1 yrs)	11
Area 29-30 imp		
	Time of Concentration Calculations, 1 years (Ocean - Time-Depth Curve, 1 yrs)	13
Area 3-11, 14		
	Time of Concentration Calculations, 1 years (Ocean - Time-Depth Curve, 1 yrs)	15
Area 3-11, 14 imp		
	Time of Concentration Calculations, 1 years (Ocean - Time-Depth Curve, 1 yrs)	17
Overland B1		
	Time of Concentration Calculations, 1 years (Ocean - Time-Depth Curve, 1 yrs)	19
Area 29-30		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	21
Area 29-30 imp		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	22
Area 3-11, 14		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	23
Area 3-11, 14 imp		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	24
ByPass 1		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	25
ByPass 1 imp		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	26
ByPass 2		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	27
ByPass 3		

## Table of Contents

	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	28
Overland B1		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	29
Basin 1		
	Addition Summary, 1 years (Ocean - Time-Depth Curve, 1 yrs)	30
	Addition Summary, 10 years (Ocean - Synthetic Curve, 10yrs)	31
	Addition Summary, 100 years (Ocean - Synthetic Curve, 100yrs)	32
CB 38		
	Addition Summary, 1 years (Ocean - Time-Depth Curve, 1 yrs)	33
	Addition Summary, 2 years (Ocean - Synthetic Curve, 2 yrs)	34
	Addition Summary, 10 years (Ocean - Synthetic Curve, 10yrs)	35
	Addition Summary, 100 years (Ocean - Synthetic Curve, 100yrs)	36
CB 39		
	Addition Summary, 1 years (Ocean - Time-Depth Curve, 1 yrs)	37
	Addition Summary, 2 years (Ocean - Synthetic Curve, 2 yrs)	38
	Addition Summary, 10 years (Ocean - Synthetic Curve, 10yrs)	39
	Addition Summary, 100 years (Ocean - Synthetic Curve, 100yrs)	40
HW 15		
	Addition Summary, 1 years (Ocean - Time-Depth Curve, 1 yrs)	41
	Addition Summary, 2 years (Ocean - Synthetic Curve, 2 yrs)	42
	Addition Summary, 10 years (Ocean - Synthetic Curve, 10yrs)	43
	Addition Summary, 100 years (Ocean - Synthetic Curve, 100yrs)	44
HW 31		
	Addition Summary, 1 years (Ocean - Time-Depth Curve, 1 yrs)	45
	Addition Summary, 2 years (Ocean - Synthetic Curve, 2 yrs)	46
	Addition Summary, 10 years (Ocean - Synthetic Curve, 10yrs)	47
	Addition Summary, 100 years (Ocean - Synthetic Curve, 100yrs)	48
Sump 2,3,4		
	Addition Summary, 1 years (Ocean - Time-Depth Curve, 1 yrs)	49
	Addition Summary, 2 years (Ocean - Synthetic Curve, 2 yrs)	50
	Addition Summary, 10 years (Ocean - Synthetic Curve, 10yrs)	51
	Addition Summary, 100 years (Ocean - Synthetic Curve, 100yrs)	52

## Subsection: Master Network Summary

### Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft <sup>3</sup> /s)
Overland B1	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00
Overland B1	Ocean - Synthetic Curve, 2 yrs	2	0.000	24.000	0.00
Overland B1	Ocean - Synthetic Curve, 10yrs	10	0.002	12.950	0.01
Overland B1	Ocean - Synthetic Curve, 100yrs	100	0.016	12.200	0.10
Area 3-11, 14	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00
Area 3-11, 14	Ocean - Synthetic Curve, 2 yrs	2	0.000	24.000	0.00
Area 3-11, 14	Ocean - Synthetic Curve, 10yrs	10	0.017	13.050	0.04
Area 3-11, 14	Ocean - Synthetic Curve, 100yrs	100	0.106	12.250	0.61
Area 3-11, 14 imp	Ocean - Time-Depth Curve, 1 yrs	1	0.202	1.150	4.33
Area 3-11, 14 imp	Ocean - Synthetic Curve, 2 yrs	2	0.621	12.150	4.97
Area 3-11, 14 imp	Ocean - Synthetic Curve, 10yrs	10	0.993	12.150	7.80
Area 3-11, 14 imp	Ocean - Synthetic Curve, 100yrs	100	1.747	12.150	13.52
Area 29-30 imp	Ocean - Time-Depth Curve, 1 yrs	1	0.098	1.150	2.11
Area 29-30 imp	Ocean - Synthetic Curve, 2 yrs	2	0.303	12.150	2.42
Area 29-30 imp	Ocean - Synthetic Curve, 10yrs	10	0.484	12.150	3.80
Area 29-30 imp	Ocean - Synthetic Curve, 100yrs	100	0.851	12.150	6.59
Area 29-30	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00
Area 29-30	Ocean - Synthetic Curve, 2 yrs	2	0.000	24.000	0.00
Area 29-30	Ocean - Synthetic Curve, 10yrs	10	0.002	12.950	0.00
Area 29-30	Ocean - Synthetic Curve, 100yrs	100	0.011	12.200	0.07
ByPass 1	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00
ByPass 1	Ocean - Synthetic Curve, 2 yrs	2	0.000	24.000	0.00
ByPass 1	Ocean - Synthetic Curve, 10yrs	10	0.002	12.950	0.00
ByPass 1	Ocean - Synthetic Curve, 100yrs	100	0.014	12.200	0.09

## Subsection: Master Network Summary

### Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft³/s)
ByPass 2	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00
ByPass 2	Ocean - Synthetic Curve, 2 yrs	2	0.000	24.000	0.00
ByPass 2	Ocean - Synthetic Curve, 10yrs	10	0.001	12.950	0.00
ByPass 2	Ocean - Synthetic Curve, 100yrs	100	0.008	12.200	0.06
ByPass 3	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00
ByPass 3	Ocean - Synthetic Curve, 2 yrs	2	0.000	24.000	0.00
ByPass 3	Ocean - Synthetic Curve, 10yrs	10	0.002	12.950	0.00
ByPass 3	Ocean - Synthetic Curve, 100yrs	100	0.010	12.200	0.07
ByPass 1 imp	Ocean - Time-Depth Curve, 1 yrs	1	0.004	1.150	0.09
ByPass 1 imp	Ocean - Synthetic Curve, 2 yrs	2	0.013	12.150	0.11
ByPass 1 imp	Ocean - Synthetic Curve, 10yrs	10	0.021	12.150	0.17
ByPass 1 imp	Ocean - Synthetic Curve, 100yrs	100	0.037	12.150	0.29

### Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft³/s)
HW 15	Ocean - Time-Depth Curve, 1 yrs	1	0.202	1.150	4.33
HW 15	Ocean - Synthetic Curve, 2 yrs	2	0.622	12.150	4.97
HW 15	Ocean - Synthetic Curve, 10yrs	10	1.010	12.150	7.80
HW 15	Ocean - Synthetic Curve, 100yrs	100	1.853	12.150	14.02
Basin 1	Ocean - Time-Depth Curve, 1 yrs	1	0.300	1.150	6.43
Basin 1	Ocean - Synthetic Curve, 2 yrs	2	0.925	12.150	7.39
Basin 1	Ocean - Synthetic Curve, 10yrs	10	1.498	12.150	11.60
Basin 1	Ocean - Synthetic Curve, 100yrs	100	2.732	12.150	20.77
HW 31	Ocean - Time-Depth Curve, 1 yrs	1	0.098	1.150	2.11

## Subsection: Master Network Summary

### Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft <sup>3</sup> /s)
HW 31	Ocean - Synthetic Curve, 2 yrs	2	0.303	12.150	2.42
HW 31	Ocean - Synthetic Curve, 10yrs	10	0.486	12.150	3.80
HW 31	Ocean - Synthetic Curve, 100yrs	100	0.863	12.150	6.66
CB 39	Ocean - Time-Depth Curve, 1 yrs	1	0.004	1.150	0.09
CB 39	Ocean - Synthetic Curve, 2 yrs	2	0.013	12.150	0.11
CB 39	Ocean - Synthetic Curve, 10yrs	10	0.023	12.150	0.17
CB 39	Ocean - Synthetic Curve, 100yrs	100	0.051	12.150	0.38
Sump 2,3,4	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00
Sump 2,3,4	Ocean - Synthetic Curve, 2 yrs	2	0.000	24.000	0.00
Sump 2,3,4	Ocean - Synthetic Curve, 10yrs	10	0.001	12.950	0.00
Sump 2,3,4	Ocean - Synthetic Curve, 100yrs	100	0.008	12.200	0.06
CB 38	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00
CB 38	Ocean - Synthetic Curve, 2 yrs	2	0.000	24.000	0.00
CB 38	Ocean - Synthetic Curve, 10yrs	10	0.002	12.950	0.00
CB 38	Ocean - Synthetic Curve, 100yrs	100	0.010	12.200	0.07

Subsection: Time-Depth Curve

Label: Ocean - NOAA D

Scenario: Ocean - Synthetic Curve, 100yrs

Return Event: 100 years

Storm Event: 100yr (9.2in)

Time-Depth Curve: 100yr (9.2in)

Label	100yr (9.2in)
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	100 years

**CUMULATIVE RAINFALL (in)**

**Output Time Increment = 0.100 hours**

**Time on left represents time for first value in each row.**

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.1	0.1	0.1	0.1	0.1
1.000	0.1	0.1	0.1	0.1	0.2
1.500	0.2	0.2	0.2	0.2	0.2
2.000	0.2	0.2	0.2	0.3	0.3
2.500	0.3	0.3	0.3	0.3	0.3
3.000	0.3	0.4	0.4	0.4	0.4
3.500	0.4	0.4	0.4	0.5	0.5
4.000	0.5	0.5	0.5	0.5	0.5
4.500	0.6	0.6	0.6	0.6	0.6
5.000	0.6	0.6	0.7	0.7	0.7
5.500	0.7	0.7	0.7	0.8	0.8
6.000	0.8	0.8	0.8	0.8	0.9
6.500	0.9	0.9	0.9	0.9	0.9
7.000	1.0	1.0	1.0	1.0	1.1
7.500	1.1	1.1	1.1	1.1	1.2
8.000	1.2	1.2	1.2	1.3	1.3
8.500	1.3	1.3	1.4	1.4	1.4
9.000	1.5	1.5	1.5	1.6	1.6
9.500	1.6	1.7	1.7	1.7	1.8
10.000	1.8	1.9	1.9	2.0	2.0
10.500	2.1	2.1	2.2	2.2	2.3
11.000	2.4	2.5	2.6	2.7	2.8
11.500	2.9	3.1	3.3	3.5	3.8
12.000	4.4	5.4	5.7	5.9	6.1
12.500	6.3	6.4	6.5	6.6	6.7
13.000	6.8	6.9	7.0	7.0	7.1
13.500	7.1	7.2	7.2	7.3	7.3
14.000	7.4	7.4	7.5	7.5	7.5
14.500	7.6	7.6	7.6	7.7	7.7
15.000	7.7	7.8	7.8	7.8	7.9
15.500	7.9	7.9	7.9	8.0	8.0
16.000	8.0	8.0	8.1	8.1	8.1
16.500	8.1	8.1	8.2	8.2	8.2
17.000	8.2	8.3	8.3	8.3	8.3

Subsection: Time-Depth Curve

Label: Ocean - NOAA D

Scenario: Ocean - Synthetic Curve, 100yrs

Return Event: 100 years

Storm Event: 100yr (9.2in)

**CUMULATIVE RAINFALL (in)**

**Output Time Increment = 0.100 hours**

**Time on left represents time for first value in each row.**

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
17.500	8.3	8.3	8.4	8.4	8.4
18.000	8.4	8.4	8.4	8.5	8.5
18.500	8.5	8.5	8.5	8.5	8.6
19.000	8.6	8.6	8.6	8.6	8.6
19.500	8.6	8.7	8.7	8.7	8.7
20.000	8.7	8.7	8.7	8.8	8.8
20.500	8.8	8.8	8.8	8.8	8.8
21.000	8.9	8.9	8.9	8.9	8.9
21.500	8.9	8.9	8.9	9.0	9.0
22.000	9.0	9.0	9.0	9.0	9.0
22.500	9.0	9.0	9.1	9.1	9.1
23.000	9.1	9.1	9.1	9.1	9.1
23.500	9.1	9.2	9.2	9.2	9.2
24.000	9.2	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time-Depth Curve

Return Event: 10 years

Label: Ocean - NOAA D

Storm Event: 10yr (5.33in)

Scenario: Ocean - Synthetic Curve, 10yrs

Time-Depth Curve: 10yr (5.33in)

Label	10yr (5.33in)
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	10 years

**CUMULATIVE RAINFALL (in)**

**Output Time Increment = 0.100 hours**

**Time on left represents time for first value in each row.**

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.0	0.0	0.0	0.1
1.000	0.1	0.1	0.1	0.1	0.1
1.500	0.1	0.1	0.1	0.1	0.1
2.000	0.1	0.1	0.1	0.1	0.2
2.500	0.2	0.2	0.2	0.2	0.2
3.000	0.2	0.2	0.2	0.2	0.2
3.500	0.2	0.2	0.3	0.3	0.3
4.000	0.3	0.3	0.3	0.3	0.3
4.500	0.3	0.3	0.3	0.3	0.4
5.000	0.4	0.4	0.4	0.4	0.4
5.500	0.4	0.4	0.4	0.4	0.4
6.000	0.5	0.5	0.5	0.5	0.5
6.500	0.5	0.5	0.5	0.5	0.5
7.000	0.6	0.6	0.6	0.6	0.6
7.500	0.6	0.6	0.7	0.7	0.7
8.000	0.7	0.7	0.7	0.7	0.8
8.500	0.8	0.8	0.8	0.8	0.8
9.000	0.8	0.9	0.9	0.9	0.9
9.500	0.9	1.0	1.0	1.0	1.0
10.000	1.1	1.1	1.1	1.1	1.2
10.500	1.2	1.2	1.3	1.3	1.3
11.000	1.4	1.4	1.5	1.6	1.6
11.500	1.7	1.8	1.9	2.0	2.2
12.000	2.6	3.1	3.3	3.4	3.5
12.500	3.6	3.7	3.8	3.8	3.9
13.000	3.9	4.0	4.0	4.1	4.1
13.500	4.1	4.2	4.2	4.2	4.2
14.000	4.3	4.3	4.3	4.3	4.4
14.500	4.4	4.4	4.4	4.4	4.5
15.000	4.5	4.5	4.5	4.5	4.5
15.500	4.6	4.6	4.6	4.6	4.6
16.000	4.6	4.7	4.7	4.7	4.7
16.500	4.7	4.7	4.7	4.7	4.8
17.000	4.8	4.8	4.8	4.8	4.8

Subsection: Time-Depth Curve

Label: Ocean - NOAA D

Scenario: Ocean - Synthetic Curve, 10yrs

Return Event: 10 years

Storm Event: 10yr (5.33in)

**CUMULATIVE RAINFALL (in)**

**Output Time Increment = 0.100 hours**

**Time on left represents time for first value in each row.**

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
17.500	4.8	4.8	4.8	4.9	4.9
18.000	4.9	4.9	4.9	4.9	4.9
18.500	4.9	4.9	4.9	4.9	5.0
19.000	5.0	5.0	5.0	5.0	5.0
19.500	5.0	5.0	5.0	5.0	5.0
20.000	5.1	5.1	5.1	5.1	5.1
20.500	5.1	5.1	5.1	5.1	5.1
21.000	5.1	5.1	5.1	5.2	5.2
21.500	5.2	5.2	5.2	5.2	5.2
22.000	5.2	5.2	5.2	5.2	5.2
22.500	5.2	5.2	5.2	5.3	5.3
23.000	5.3	5.3	5.3	5.3	5.3
23.500	5.3	5.3	5.3	5.3	5.3
24.000	5.3	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time-Depth Curve

Label: WQ

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

Time-Depth Curve: 2hr (1.25in)	
Label	2hr (1.25in)
Start Time	0.000 hours
Increment	0.083 hours
End Time	2.000 hours
Return Event	1 years

**CUMULATIVE RAINFALL (in)**

**Output Time Increment = 0.083 hours**

**Time on left represents time for first value in each row.**

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.1
0.417	0.1	0.1	0.1	0.2	0.2
0.833	0.3	0.4	0.6	0.9	1.0
1.250	1.1	1.1	1.1	1.2	1.2
1.667	1.2	1.2	1.2	1.2	1.3

Subsection: Time-Depth Curve

Label: Ocean - NOAA D

Scenario: Ocean - Synthetic Curve, 2 yrs

Return Event: 2 years

Storm Event: 2yr (3.42in)

Time-Depth Curve: 2yr (3.42in)

Label	2yr (3.42in)
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	2 years

**CUMULATIVE RAINFALL (in)**

**Output Time Increment = 0.100 hours**

**Time on left represents time for first value in each row.**

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.0	0.0	0.0	0.0
1.000	0.0	0.0	0.0	0.1	0.1
1.500	0.1	0.1	0.1	0.1	0.1
2.000	0.1	0.1	0.1	0.1	0.1
2.500	0.1	0.1	0.1	0.1	0.1
3.000	0.1	0.1	0.1	0.1	0.1
3.500	0.2	0.2	0.2	0.2	0.2
4.000	0.2	0.2	0.2	0.2	0.2
4.500	0.2	0.2	0.2	0.2	0.2
5.000	0.2	0.2	0.2	0.3	0.3
5.500	0.3	0.3	0.3	0.3	0.3
6.000	0.3	0.3	0.3	0.3	0.3
6.500	0.3	0.3	0.3	0.3	0.4
7.000	0.4	0.4	0.4	0.4	0.4
7.500	0.4	0.4	0.4	0.4	0.4
8.000	0.4	0.5	0.5	0.5	0.5
8.500	0.5	0.5	0.5	0.5	0.5
9.000	0.5	0.6	0.6	0.6	0.6
9.500	0.6	0.6	0.6	0.6	0.7
10.000	0.7	0.7	0.7	0.7	0.7
10.500	0.8	0.8	0.8	0.8	0.9
11.000	0.9	0.9	1.0	1.0	1.0
11.500	1.1	1.1	1.2	1.3	1.4
12.000	1.6	2.0	2.1	2.2	2.3
12.500	2.3	2.4	2.4	2.5	2.5
13.000	2.5	2.6	2.6	2.6	2.6
13.500	2.7	2.7	2.7	2.7	2.7
14.000	2.7	2.8	2.8	2.8	2.8
14.500	2.8	2.8	2.8	2.9	2.9
15.000	2.9	2.9	2.9	2.9	2.9
15.500	2.9	2.9	2.9	3.0	3.0
16.000	3.0	3.0	3.0	3.0	3.0
16.500	3.0	3.0	3.0	3.0	3.1
17.000	3.1	3.1	3.1	3.1	3.1

Subsection: Time-Depth Curve

Label: Ocean - NOAA D

Scenario: Ocean - Synthetic Curve, 2 yrs

Return Event: 2 years

Storm Event: 2yr (3.42in)

**CUMULATIVE RAINFALL (in)**

**Output Time Increment = 0.100 hours**

**Time on left represents time for first value in each row.**

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
17.500	3.1	3.1	3.1	3.1	3.1
18.000	3.1	3.1	3.1	3.1	3.2
18.500	3.2	3.2	3.2	3.2	3.2
19.000	3.2	3.2	3.2	3.2	3.2
19.500	3.2	3.2	3.2	3.2	3.2
20.000	3.2	3.2	3.3	3.3	3.3
20.500	3.3	3.3	3.3	3.3	3.3
21.000	3.3	3.3	3.3	3.3	3.3
21.500	3.3	3.3	3.3	3.3	3.3
22.000	3.3	3.3	3.3	3.4	3.4
22.500	3.4	3.4	3.4	3.4	3.4
23.000	3.4	3.4	3.4	3.4	3.4
23.500	3.4	3.4	3.4	3.4	3.4
24.000	3.4	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time of Concentration Calculations

Label: Area 29-30

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

Time of Concentration Results

---

Segment #1: User Defined Tc

---

Time of Concentration	0.170 hours
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Time of Concentration (Composite)

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Time of Concentration (Composite)	0.170 hours
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Subsection: Time of Concentration Calculations  
Label: Area 29-30  
Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years  
Storm Event: 2hr (1.25in)

**===== User Defined**

Tc = Value entered by user  
Where: Tc= Time of concentration, hours

Subsection: Time of Concentration Calculations

Label: Area 29-30 imp

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

Time of Concentration Results

---

Segment #1: User Defined Tc

---

Time of Concentration	0.170 hours
-----------------------	-------------

---

Time of Concentration (Composite)

---

Time of Concentration (Composite)	0.170 hours
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---

Subsection: Time of Concentration Calculations  
Label: Area 29-30 imp  
Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years  
Storm Event: 2hr (1.25in)

**===== User Defined**

Tc = Value entered by user  
Where: Tc= Time of concentration, hours

Subsection: Time of Concentration Calculations

Label: Area 3-11, 14

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

Time of Concentration Results

---

Segment #1: User Defined Tc

---

Time of Concentration	0.220 hours
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---

Time of Concentration (Composite)

---

Time of Concentration (Composite)	0.220 hours
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Subsection: Time of Concentration Calculations  
Label: Area 3-11, 14  
Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years  
Storm Event: 2hr (1.25in)

**===== User Defined**

Tc = Value entered by user  
Where: Tc= Time of concentration, hours

Subsection: Time of Concentration Calculations

Label: Area 3-11, 14 imp

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

Time of Concentration Results

---

Segment #1: User Defined Tc

---

Time of Concentration	0.170 hours
-----------------------	-------------

---

Time of Concentration (Composite)

---

Time of Concentration (Composite)	0.170 hours
--------------------------------------	-------------

---

Subsection: Time of Concentration Calculations  
Label: Area 3-11, 14 imp  
Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years  
Storm Event: 2hr (1.25in)

**===== User Defined**

Tc = Value entered by user  
Where: Tc= Time of concentration, hours

Subsection: Time of Concentration Calculations

Label: Overland B1

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

Time of Concentration Results

---

Segment #1: User Defined Tc

---

Time of Concentration	0.170 hours
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---

Time of Concentration (Composite)

---

Time of Concentration (Composite)	0.170 hours
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Subsection: Time of Concentration Calculations  
Label: Overland B1  
Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years  
Storm Event: 2hr (1.25in)

**===== User Defined**

Tc = Value entered by user  
Where: Tc= Time of concentration, hours

Subsection: Runoff CN-Area  
Label: Area 29-30  
Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years  
Storm Event: 2hr (1.25in)

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open COMPOSITE AREA & WEIGHTED CN --->	39.000 (N/A)	0.080 0.080	0.0 (N/A)	0.0 (N/A)	39.000 39.000

Subsection: Runoff CN-Area  
Label: Area 29-30 imp  
Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years  
Storm Event: 2hr (1.25in)

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious COMPOSITE AREA & WEIGHTED CN --->	98.000 (N/A)	1.140 1.140	0.0 (N/A)	0.0 (N/A)	98.000 98.000

Subsection: Runoff CN-Area  
Label: Area 3-11, 14  
Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years  
Storm Event: 2hr (1.25in)

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open COMPOSITE AREA & WEIGHTED CN --->	39.000 (N/A)	0.750 0.750	0.0 (N/A)	0.0 (N/A)	39.000 39.000

Subsection: Runoff CN-Area  
Label: Area 3-11, 14 imp  
Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years  
Storm Event: 2hr (1.25in)

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious COMPOSITE AREA & WEIGHTED CN --->	98.000 (N/A)	2.340 2.340	0.0 (N/A)	0.0 (N/A)	98.000 98.000

Subsection: Runoff CN-Area  
Label: ByPass 1  
Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years  
Storm Event: 2hr (1.25in)

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open COMPOSITE AREA & WEIGHTED CN --->	39.000 (N/A)	0.100 0.100	0.0 (N/A)	0.0 (N/A)	39.000 39.000

Subsection: Runoff CN-Area  
Label: ByPass 1 imp  
Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years  
Storm Event: 2hr (1.25in)

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious COMPOSITE AREA & WEIGHTED CN --->	98.000 (N/A)	0.050 0.050	0.0 (N/A)	0.0 (N/A)	98.000 98.000

Subsection: Runoff CN-Area

Label: ByPass 2

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open COMPOSITE AREA & WEIGHTED CN --->	39.000 (N/A)	0.060 0.060	0.0 (N/A)	0.0 (N/A)	39.000 39.000

Subsection: Runoff CN-Area

Label: ByPass 3

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open COMPOSITE AREA & WEIGHTED CN --->	39.000 (N/A)	0.070 0.070	0.0 (N/A)	0.0 (N/A)	39.000 39.000

Subsection: Runoff CN-Area  
Label: Overland B1  
Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years  
Storm Event: 2hr (1.25in)

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open COMPOSITE AREA & WEIGHTED CN --->	39.000 (N/A)	0.110 0.110	0.0 (N/A)	0.0 (N/A)	39.000 39.000

Subsection: Addition Summary

Label: Basin 1

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

### Summary for Hydrograph Addition at 'Basin 1'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Overland B1
	HW 15
	HW 31

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Overland B1	0.000	0.000	0.00
Flow (From)	HW 15	0.202	1.150	4.33
Flow (From)	HW 31	0.098	1.150	2.11
Flow (In)	Basin 1	0.300	1.150	6.43

Subsection: Addition Summary

Label: Basin 1

Scenario: Ocean - Synthetic Curve, 10yrs

Return Event: 10 years

Storm Event: 10yr (5.33in)

### Summary for Hydrograph Addition at 'Basin 1'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Overland B1
	HW 15
	HW 31

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Overland B1	0.002	12.950	0.01
Flow (From)	HW 15	1.010	12.150	7.80
Flow (From)	HW 31	0.486	12.150	3.80
Flow (In)	Basin 1	1.498	12.150	11.60

Subsection: Addition Summary

Label: Basin 1

Scenario: Ocean - Synthetic Curve, 100yrs

Return Event: 100 years

Storm Event: 100yr (9.2in)

### Summary for Hydrograph Addition at 'Basin 1'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Overland B1
	HW 15
	HW 31

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Overland B1	0.016	12.200	0.10
Flow (From)	HW 15	1.853	12.150	14.02
Flow (From)	HW 31	0.863	12.150	6.66
Flow (In)	Basin 1	2.732	12.150	20.77

Subsection: Addition Summary

Label: CB 38

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

### Summary for Hydrograph Addition at 'CB 38'

Upstream Link <Catchment to Outflow Node>	Upstream Node ByPass 3
--	---------------------------

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	ByPass 3	0.000	0.000	0.00
Flow (In)	CB 38	0.000	0.000	0.00

Subsection: Addition Summary

Label: CB 38

Scenario: Ocean - Synthetic Curve, 2 yrs

Return Event: 2 years

Storm Event: 2yr (3.42in)

### Summary for Hydrograph Addition at 'CB 38'

Upstream Link <Catchment to Outflow Node>	Upstream Node ByPass 3
--	---------------------------

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	ByPass 3	0.000	24.000	0.00
Flow (In)	CB 38	0.000	24.000	0.00

Subsection: Addition Summary

Label: CB 38

Scenario: Ocean - Synthetic Curve, 10yrs

Return Event: 10 years

Storm Event: 10yr (5.33in)

### Summary for Hydrograph Addition at 'CB 38'

Upstream Link <Catchment to Outflow Node>	Upstream Node ByPass 3
--	---------------------------

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	ByPass 3	0.002	12.950	0.00
Flow (In)	CB 38	0.002	12.950	0.00

Subsection: Addition Summary

Label: CB 38

Scenario: Ocean - Synthetic Curve, 100yrs

Return Event: 100 years

Storm Event: 100yr (9.2in)

### Summary for Hydrograph Addition at 'CB 38'

Upstream Link <Catchment to Outflow Node>	Upstream Node ByPass 3
--	---------------------------

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	ByPass 3	0.010	12.200	0.07
Flow (In)	CB 38	0.010	12.200	0.07

Subsection: Addition Summary

Label: CB 39

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

### Summary for Hydrograph Addition at 'CB 39'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	ByPass 1 imp
<Catchment to Outflow Node>	ByPass 1

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	ByPass 1 imp	0.004	1.150	0.09
Flow (From)	ByPass 1	0.000	0.000	0.00
Flow (In)	CB 39	0.004	1.150	0.09

Subsection: Addition Summary

Label: CB 39

Scenario: Ocean - Synthetic Curve, 2 yrs

Return Event: 2 years

Storm Event: 2yr (3.42in)

### Summary for Hydrograph Addition at 'CB 39'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	ByPass 1 imp
<Catchment to Outflow Node>	ByPass 1

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	ByPass 1 imp	0.013	12.150	0.11
Flow (From)	ByPass 1	0.000	24.000	0.00
Flow (In)	CB 39	0.013	12.150	0.11

Subsection: Addition Summary

Label: CB 39

Scenario: Ocean - Synthetic Curve, 10yrs

Return Event: 10 years

Storm Event: 10yr (5.33in)

### Summary for Hydrograph Addition at 'CB 39'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	ByPass 1 imp
<Catchment to Outflow Node>	ByPass 1

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	ByPass 1 imp	0.021	12.150	0.17
Flow (From)	ByPass 1	0.002	12.950	0.00
Flow (In)	CB 39	0.023	12.150	0.17

Subsection: Addition Summary

Label: CB 39

Scenario: Ocean - Synthetic Curve, 100yrs

Return Event: 100 years

Storm Event: 100yr (9.2in)

### Summary for Hydrograph Addition at 'CB 39'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	ByPass 1 imp
<Catchment to Outflow Node>	ByPass 1

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	ByPass 1 imp	0.037	12.150	0.29
Flow (From)	ByPass 1	0.014	12.200	0.09
Flow (In)	CB 39	0.051	12.150	0.38

Subsection: Addition Summary

Label: HW 15

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

### Summary for Hydrograph Addition at 'HW 15'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Area 3-11, 14 imp
<Catchment to Outflow Node>	Area 3-11, 14

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Area 3-11, 14 imp	0.202	1.150	4.33
Flow (From)	Area 3-11, 14	0.000	0.000	0.00
Flow (In)	HW 15	0.202	1.150	4.33

Subsection: Addition Summary

Label: HW 15

Scenario: Ocean - Synthetic Curve, 2 yrs

Return Event: 2 years

Storm Event: 2yr (3.42in)

### Summary for Hydrograph Addition at 'HW 15'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Area 3-11, 14 imp
<Catchment to Outflow Node>	Area 3-11, 14

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Area 3-11, 14 imp	0.621	12.150	4.97
Flow (From)	Area 3-11, 14	0.000	24.000	0.00
Flow (In)	HW 15	0.622	12.150	4.97

Subsection: Addition Summary

Label: HW 15

Scenario: Ocean - Synthetic Curve, 10yrs

Return Event: 10 years

Storm Event: 10yr (5.33in)

### **Summary for Hydrograph Addition at 'HW 15'**

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Area 3-11, 14 imp
<Catchment to Outflow Node>	Area 3-11, 14

### **Node Inflows**

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Area 3-11, 14 imp	0.993	12.150	7.80
Flow (From)	Area 3-11, 14	0.017	13.050	0.04
Flow (In)	HW 15	1.010	12.150	7.80

Subsection: Addition Summary

Label: HW 15

Scenario: Ocean - Synthetic Curve, 100yrs

Return Event: 100 years

Storm Event: 100yr (9.2in)

### Summary for Hydrograph Addition at 'HW 15'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Area 3-11, 14 imp
<Catchment to Outflow Node>	Area 3-11, 14

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Area 3-11, 14 imp	1.747	12.150	13.52
Flow (From)	Area 3-11, 14	0.106	12.250	0.61
Flow (In)	HW 15	1.853	12.150	14.02

Subsection: Addition Summary

Label: HW 31

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

### Summary for Hydrograph Addition at 'HW 31'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Area 29-30
<Catchment to Outflow Node>	Area 29-30 imp

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Area 29-30	0.000	0.000	0.00
Flow (From)	Area 29-30 imp	0.098	1.150	2.11
Flow (In)	HW 31	0.098	1.150	2.11

Subsection: Addition Summary

Label: HW 31

Scenario: Ocean - Synthetic Curve, 2 yrs

Return Event: 2 years

Storm Event: 2yr (3.42in)

### Summary for Hydrograph Addition at 'HW 31'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Area 29-30
<Catchment to Outflow Node>	Area 29-30 imp

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Area 29-30	0.000	24.000	0.00
Flow (From)	Area 29-30 imp	0.303	12.150	2.42
Flow (In)	HW 31	0.303	12.150	2.42

Subsection: Addition Summary

Label: HW 31

Scenario: Ocean - Synthetic Curve, 10yrs

Return Event: 10 years

Storm Event: 10yr (5.33in)

### **Summary for Hydrograph Addition at 'HW 31'**

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Area 29-30
<Catchment to Outflow Node>	Area 29-30 imp

### **Node Inflows**

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Area 29-30	0.002	12.950	0.00
Flow (From)	Area 29-30 imp	0.484	12.150	3.80
Flow (In)	HW 31	0.486	12.150	3.80

Subsection: Addition Summary

Label: HW 31

Scenario: Ocean - Synthetic Curve, 100yrs

Return Event: 100 years

Storm Event: 100yr (9.2in)

### Summary for Hydrograph Addition at 'HW 31'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	Area 29-30
<Catchment to Outflow Node>	Area 29-30 imp

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	Area 29-30	0.011	12.200	0.07
Flow (From)	Area 29-30 imp	0.851	12.150	6.59
Flow (In)	HW 31	0.863	12.150	6.66

Subsection: Addition Summary

Label: Sump 2,3,4

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

### Summary for Hydrograph Addition at 'Sump 2,3,4'

Upstream Link <Catchment to Outflow Node>	Upstream Node ByPass 2
--	---------------------------

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	ByPass 2	0.000	0.000	0.00
Flow (In)	Sump 2,3,4	0.000	0.000	0.00

Subsection: Addition Summary

Label: Sump 2,3,4

Scenario: Ocean - Synthetic Curve, 2 yrs

Return Event: 2 years

Storm Event: 2yr (3.42in)

### Summary for Hydrograph Addition at 'Sump 2,3,4'

Upstream Link <Catchment to Outflow Node>	Upstream Node ByPass 2
--	---------------------------

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	ByPass 2	0.000	24.000	0.00
Flow (In)	Sump 2,3,4	0.000	24.000	0.00

Subsection: Addition Summary

Label: Sump 2,3,4

Scenario: Ocean - Synthetic Curve, 10yrs

Return Event: 10 years

Storm Event: 10yr (5.33in)

### **Summary for Hydrograph Addition at 'Sump 2,3,4'**

Upstream Link <Catchment to Outflow Node>	Upstream Node ByPass 2
--	---------------------------

#### **Node Inflows**

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	ByPass 2	0.001	12.950	0.00
Flow (In)	Sump 2,3,4	0.001	12.950	0.00

Subsection: Addition Summary

Label: Sump 2,3,4

Scenario: Ocean - Synthetic Curve, 100yrs

Return Event: 100 years

Storm Event: 100yr (9.2in)

### Summary for Hydrograph Addition at 'Sump 2,3,4'

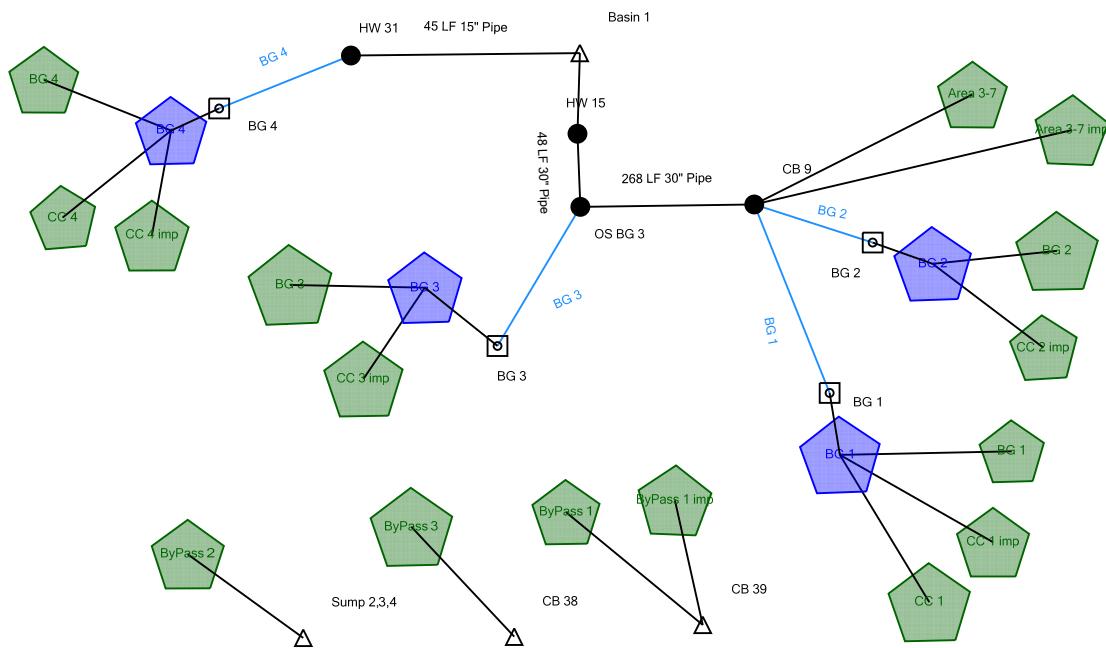
Upstream Link <Catchment to Outflow Node>	Upstream Node ByPass 2
--	---------------------------

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	ByPass 2	0.008	12.200	0.06
Flow (In)	Sump 2,3,4	0.008	12.200	0.06

## **APPENDIX B**

## **Scenario:** PROPOSED PHASE 3 STORMWATER RUNOFF



## Table of Contents

	Master Network Summary	1
Ocean - NOAA D		
	Time-Depth Curve, 100 years (Ocean - Synthetic Curve, 100yrs)	8
	Time-Depth Curve, 10 years (Ocean - Synthetic Curve, 10yrs)	10
WQ		
	Time-Depth Curve, 1 years (Ocean - Time-Depth Curve, 1 yrs)	12
Ocean - NOAA D		
	Time-Depth Curve, 2 years (Ocean - Synthetic Curve, 2 yrs)	13
Area 3-7		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	15
Area 3-7 imp		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	16
BG 1		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	17
BG 2		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	18
BG 3		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	19
BG 4		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	20
ByPass 1		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	21
ByPass 1 imp		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	22
ByPass 2		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	23
ByPass 3		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	24
CC 1		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	25
CC 1 imp		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	26
CC 2 imp		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	27

## Table of Contents

CC 3 imp		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	28
CC 4		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	29
CC 4 imp		
	Runoff CN-Area, 1 years (Ocean - Time-Depth Curve, 1 yrs)	30
Basin 1		
	Addition Summary, 1 years (Ocean - Time-Depth Curve, 1 yrs)	31
	Addition Summary, 2 years (Ocean - Synthetic Curve, 2 yrs)	32
	Addition Summary, 10 years (Ocean - Synthetic Curve, 10yrs)	33
	Addition Summary, 100 years (Ocean - Synthetic Curve, 100yrs)	34
CB 38		
	Addition Summary, 1 years (Ocean - Time-Depth Curve, 1 yrs)	35
	Addition Summary, 2 years (Ocean - Synthetic Curve, 2 yrs)	36
	Addition Summary, 10 years (Ocean - Synthetic Curve, 10yrs)	37
	Addition Summary, 100 years (Ocean - Synthetic Curve, 100yrs)	38
CB 39		
	Addition Summary, 1 years (Ocean - Time-Depth Curve, 1 yrs)	39
	Addition Summary, 2 years (Ocean - Synthetic Curve, 2 yrs)	40
	Addition Summary, 10 years (Ocean - Synthetic Curve, 10yrs)	41
	Addition Summary, 100 years (Ocean - Synthetic Curve, 100yrs)	42
CB 9		
	Addition Summary, 1 years (Ocean - Time-Depth Curve, 1 yrs)	43
	Addition Summary, 2 years (Ocean - Synthetic Curve, 2 yrs)	44
	Addition Summary, 10 years (Ocean - Synthetic Curve, 10yrs)	45
	Addition Summary, 100 years (Ocean - Synthetic Curve, 100yrs)	46
HW 15		
	Addition Summary, 1 years (Ocean - Time-Depth Curve, 1 yrs)	47
	Addition Summary, 2 years (Ocean - Synthetic Curve, 2 yrs)	48
	Addition Summary, 10 years (Ocean - Synthetic Curve, 10yrs)	49
	Addition Summary, 100 years (Ocean - Synthetic Curve, 100yrs)	50
HW 31		
	Addition Summary, 1 years (Ocean - Time-Depth Curve, 1 yrs)	51
	Addition Summary, 2 years (Ocean - Synthetic Curve, 2 yrs)	52

## Table of Contents

	Addition Summary, 10 years (Ocean - Synthetic Curve, 10yrs)	53
	Addition Summary, 100 years (Ocean - Synthetic Curve, 100yrs)	54
OS BG 3		
	Addition Summary, 1 years (Ocean - Time-Depth Curve, 1 yrs)	55
	Addition Summary, 2 years (Ocean - Synthetic Curve, 2 yrs)	56
	Addition Summary, 10 years (Ocean - Synthetic Curve, 10yrs)	57
	Addition Summary, 100 years (Ocean - Synthetic Curve, 100yrs)	58
Sump 2,3,4		
	Addition Summary, 1 years (Ocean - Time-Depth Curve, 1 yrs)	59
	Addition Summary, 2 years (Ocean - Synthetic Curve, 2 yrs)	60
	Addition Summary, 10 years (Ocean - Synthetic Curve, 10yrs)	61
	Addition Summary, 100 years (Ocean - Synthetic Curve, 100yrs)	62
BG 1		
	Elevation-Area Volume Curve, 1 years (Ocean - Time-Depth Curve, 1 yrs)	63
BG 2		
	Elevation-Area Volume Curve, 1 years (Ocean - Time-Depth Curve, 1 yrs)	64
BG 3		
	Elevation-Area Volume Curve, 1 years (Ocean - Time-Depth Curve, 1 yrs)	65
BG 4		
	Elevation-Area Volume Curve, 1 years (Ocean - Time-Depth Curve, 1 yrs)	66
BG 1		
	Outlet Input Data, 1 years (Ocean - Time-Depth Curve, 1 yrs)	67
	Composite Rating Curve, 1 years (Ocean - Time-Depth Curve, 1 yrs)	71
BG 2		
	Outlet Input Data, 1 years (Ocean - Time-Depth Curve, 1 yrs)	72
	Composite Rating Curve, 1 years (Ocean - Time-Depth Curve, 1 yrs)	74
BG 3		
	Outlet Input Data, 1 years (Ocean - Time-Depth Curve, 1 yrs)	75
	Composite Rating Curve, 1 years (Ocean - Time-Depth Curve, 1 yrs)	77
BG 4		
	Outlet Input Data, 1 years (Ocean - Time-Depth Curve, 1 yrs)	78
	Composite Rating Curve, 1 years (Ocean - Time-Depth Curve, 1 yrs)	82
BG 1 (IN)		

## Table of Contents

Level Pool Pond Routing Summary, 1 years (Ocean - Time-Depth Curve, 1 yrs)	83
Level Pool Pond Routing Summary, 2 years (Ocean - Synthetic Curve, 2 yrs)	84
Level Pool Pond Routing Summary, 10 years (Ocean - Synthetic Curve, 10yrs)	85
Level Pool Pond Routing Summary, 100 years (Ocean - Synthetic Curve, 100yrs)	86
<b>BG 2 (IN)</b>	
Level Pool Pond Routing Summary, 1 years (Ocean - Time-Depth Curve, 1 yrs)	87
Level Pool Pond Routing Summary, 2 years (Ocean - Synthetic Curve, 2 yrs)	88
Level Pool Pond Routing Summary, 10 years (Ocean - Synthetic Curve, 10yrs)	89
Level Pool Pond Routing Summary, 100 years (Ocean - Synthetic Curve, 100yrs)	90
<b>BG 3 (IN)</b>	
Level Pool Pond Routing Summary, 1 years (Ocean - Time-Depth Curve, 1 yrs)	91
Level Pool Pond Routing Summary, 2 years (Ocean - Synthetic Curve, 2 yrs)	92
Level Pool Pond Routing Summary, 10 years (Ocean - Synthetic Curve, 10yrs)	93
Level Pool Pond Routing Summary, 100 years (Ocean - Synthetic Curve, 100yrs)	94
<b>BG 4 (IN)</b>	
Level Pool Pond Routing Summary, 1 years (Ocean - Time-Depth Curve, 1 yrs)	95
Level Pool Pond Routing Summary, 2 years (Ocean - Synthetic Curve, 2 yrs)	96
Level Pool Pond Routing Summary, 10 years (Ocean - Synthetic Curve, 10yrs)	97
Level Pool Pond Routing Summary, 100 years (Ocean - Synthetic Curve, 100yrs)	98

## Subsection: Master Network Summary

### Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft <sup>3</sup> /s)
ByPass 1	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00
ByPass 1	Ocean - Synthetic Curve, 2 yrs	2	0.000	24.000	0.00
ByPass 1	Ocean - Synthetic Curve, 10yrs	10	0.000	12.500	0.00
ByPass 1	Ocean - Synthetic Curve, 100yrs	100	0.003	12.100	0.04
ByPass 2	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00
ByPass 2	Ocean - Synthetic Curve, 2 yrs	2	0.000	0.000	0.00
ByPass 2	Ocean - Synthetic Curve, 10yrs	10	0.003	14.450	0.00
ByPass 2	Ocean - Synthetic Curve, 100yrs	100	0.032	12.250	0.17
ByPass 3	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00
ByPass 3	Ocean - Synthetic Curve, 2 yrs	2	0.000	24.000	0.00
ByPass 3	Ocean - Synthetic Curve, 10yrs	10	0.002	12.950	0.00
ByPass 3	Ocean - Synthetic Curve, 100yrs	100	0.010	12.200	0.07
ByPass 1 imp	Ocean - Time-Depth Curve, 1 yrs	1	0.003	1.050	0.09
ByPass 1 imp	Ocean - Synthetic Curve, 2 yrs	2	0.008	12.100	0.11
ByPass 1 imp	Ocean - Synthetic Curve, 10yrs	10	0.013	12.100	0.17
ByPass 1 imp	Ocean - Synthetic Curve, 100yrs	100	0.022	12.100	0.29
CC 1 imp	Ocean - Time-Depth Curve, 1 yrs	1	0.034	1.050	1.16
CC 1 imp	Ocean - Synthetic Curve, 2 yrs	2	0.104	12.100	1.36
CC 1 imp	Ocean - Synthetic Curve, 10yrs	10	0.166	12.100	2.12
CC 1 imp	Ocean - Synthetic Curve, 100yrs	100	0.291	12.100	3.68
CC 1	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00
CC 1	Ocean - Synthetic Curve, 2 yrs	2	0.000	24.000	0.00
CC 1	Ocean - Synthetic Curve, 10yrs	10	0.001	12.500	0.00
CC 1	Ocean - Synthetic Curve, 100yrs	100	0.004	12.100	0.06

## Subsection: Master Network Summary

### Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft <sup>3</sup> /s)
CC 2 imp	Ocean - Time-Depth Curve, 1 yrs	1	0.030	1.050	1.05
CC 2 imp	Ocean - Synthetic Curve, 2 yrs	2	0.093	12.100	1.22
CC 2 imp	Ocean - Synthetic Curve, 10yrs	10	0.149	12.100	1.91
CC 2 imp	Ocean - Synthetic Curve, 100yrs	100	0.261	12.100	3.30
BG 2	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00
BG 2	Ocean - Synthetic Curve, 2 yrs	2	0.000	24.000	0.00
BG 2	Ocean - Synthetic Curve, 10yrs	10	0.005	12.500	0.01
BG 2	Ocean - Synthetic Curve, 100yrs	100	0.031	12.100	0.42
Area 3-7 imp	Ocean - Time-Depth Curve, 1 yrs	1	0.129	1.150	2.44
Area 3-7 imp	Ocean - Synthetic Curve, 2 yrs	2	0.398	12.200	2.89
Area 3-7 imp	Ocean - Synthetic Curve, 10yrs	10	0.637	12.200	4.53
Area 3-7 imp	Ocean - Synthetic Curve, 100yrs	100	1.120	12.200	7.85
Area 3-7	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00
Area 3-7	Ocean - Synthetic Curve, 2 yrs	2	0.000	24.000	0.00
Area 3-7	Ocean - Synthetic Curve, 10yrs	10	0.012	13.000	0.02
Area 3-7	Ocean - Synthetic Curve, 100yrs	100	0.072	12.250	0.42
BG 3	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00
BG 3	Ocean - Synthetic Curve, 2 yrs	2	0.000	24.000	0.00
BG 3	Ocean - Synthetic Curve, 10yrs	10	0.004	12.900	0.01
BG 3	Ocean - Synthetic Curve, 100yrs	100	0.025	12.200	0.18
CC 3 imp	Ocean - Time-Depth Curve, 1 yrs	1	0.033	1.050	1.16
CC 3 imp	Ocean - Synthetic Curve, 2 yrs	2	0.101	12.100	1.35
CC 3 imp	Ocean - Synthetic Curve, 10yrs	10	0.161	12.100	2.11
CC 3 imp	Ocean - Synthetic Curve, 100yrs	100	0.284	12.100	3.66

## Subsection: Master Network Summary

### Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft³/s)
CC 4	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00
CC 4	Ocean - Synthetic Curve, 2 yrs	2	0.000	24.000	0.00
CC 4	Ocean - Synthetic Curve, 10yrs	10	0.001	12.500	0.00
CC 4	Ocean - Synthetic Curve, 100yrs	100	0.004	12.100	0.06
BG 4	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00
BG 4	Ocean - Synthetic Curve, 2 yrs	2	0.000	24.000	0.00
BG 4	Ocean - Synthetic Curve, 10yrs	10	0.005	12.950	0.01
BG 4	Ocean - Synthetic Curve, 100yrs	100	0.030	12.200	0.20
BG 1	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00
BG 1	Ocean - Synthetic Curve, 2 yrs	2	0.000	24.000	0.00
BG 1	Ocean - Synthetic Curve, 10yrs	10	0.002	12.950	0.00
BG 1	Ocean - Synthetic Curve, 100yrs	100	0.014	12.200	0.09
CC 4 imp	Ocean - Time-Depth Curve, 1 yrs	1	0.032	1.050	1.10
CC 4 imp	Ocean - Synthetic Curve, 2 yrs	2	0.098	12.100	1.29
CC 4 imp	Ocean - Synthetic Curve, 10yrs	10	0.157	12.100	2.02
CC 4 imp	Ocean - Synthetic Curve, 100yrs	100	0.276	12.100	3.49

### Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft³/s)
HW 15	Ocean - Time-Depth Curve, 1 yrs	1	0.129	1.150	2.44
HW 15	Ocean - Synthetic Curve, 2 yrs	2	0.581	12.150	5.73
HW 15	Ocean - Synthetic Curve, 10yrs	10	1.020	12.150	9.20
HW 15	Ocean - Synthetic Curve, 100yrs	100	1.988	12.100	17.01
Basin 1	Ocean - Time-Depth Curve, 1 yrs	1	0.129	1.150	2.44

## Subsection: Master Network Summary

### Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft <sup>3</sup> /s)
Basin 1	Ocean - Synthetic Curve, 2 yrs	2	0.633	12.150	6.38
Basin 1	Ocean - Synthetic Curve, 10yrs	10	1.137	12.150	10.78
Basin 1	Ocean - Synthetic Curve, 100yrs	100	2.252	12.100	20.00
HW 31	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00
HW 31	Ocean - Synthetic Curve, 2 yrs	2	0.052	12.150	0.64
HW 31	Ocean - Synthetic Curve, 10yrs	10	0.116	12.100	1.60
HW 31	Ocean - Synthetic Curve, 100yrs	100	0.264	12.100	2.99
CB 39	Ocean - Time-Depth Curve, 1 yrs	1	0.003	1.050	0.09
CB 39	Ocean - Synthetic Curve, 2 yrs	2	0.008	12.100	0.11
CB 39	Ocean - Synthetic Curve, 10yrs	10	0.013	12.100	0.17
CB 39	Ocean - Synthetic Curve, 100yrs	100	0.025	12.100	0.33
Sump 2,3,4	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00
Sump 2,3,4	Ocean - Synthetic Curve, 2 yrs	2	0.000	0.000	0.00
Sump 2,3,4	Ocean - Synthetic Curve, 10yrs	10	0.003	14.450	0.00
Sump 2,3,4	Ocean - Synthetic Curve, 100yrs	100	0.032	12.250	0.17
CB 38	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00
CB 38	Ocean - Synthetic Curve, 2 yrs	2	0.000	24.000	0.00
CB 38	Ocean - Synthetic Curve, 10yrs	10	0.002	12.950	0.00
CB 38	Ocean - Synthetic Curve, 100yrs	100	0.010	12.200	0.07
CB 9	Ocean - Time-Depth Curve, 1 yrs	1	0.129	1.150	2.44
CB 9	Ocean - Synthetic Curve, 2 yrs	2	0.526	12.150	4.86
CB 9	Ocean - Synthetic Curve, 10yrs	10	0.901	12.150	7.60
CB 9	Ocean - Synthetic Curve, 100yrs	100	1.725	12.150	14.01
OS BG 3	Ocean - Time-Depth Curve, 1 yrs	1	0.129	1.150	2.44

## Subsection: Master Network Summary

### Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft³/s)
OS BG 3	Ocean - Synthetic Curve, 2 yrs	2	0.581	12.150	5.73
OS BG 3	Ocean - Synthetic Curve, 10yrs	10	1.020	12.150	9.20
OS BG 3	Ocean - Synthetic Curve, 100yrs	100	1.988	12.100	17.01

### Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
BG 4 (IN)	Ocean - Time-Depth Curve, 1 yrs	1	0.032	1.050	1.10	(N/A)	(N/A)
BG 4 (OUT)	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00	68.61	0.032
BG 4 (IN)	Ocean - Synthetic Curve, 2 yrs	2	0.098	12.100	1.29	(N/A)	(N/A)
BG 4 (OUT)	Ocean - Synthetic Curve, 2 yrs	2	0.052	12.150	0.64	68.86	0.051
BG 4 (IN)	Ocean - Synthetic Curve, 10yrs	10	0.162	12.100	2.02	(N/A)	(N/A)
BG 4 (OUT)	Ocean - Synthetic Curve, 10yrs	10	0.116	12.100	1.60	68.92	0.057
BG 4 (IN)	Ocean - Synthetic Curve, 100yrs	100	0.310	12.100	3.68	(N/A)	(N/A)
BG 4 (OUT)	Ocean - Synthetic Curve, 100yrs	100	0.264	12.100	2.99	68.99	0.064
BG 1 (IN)	Ocean - Time-Depth Curve, 1 yrs	1	0.034	1.050	1.16	(N/A)	(N/A)
BG 1 (OUT)	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00	68.99	0.034
BG 1 (IN)	Ocean - Synthetic Curve, 2 yrs	2	0.104	12.100	1.36	(N/A)	(N/A)

Subsection: Master Network Summary

**Pond Summary**

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
BG 1 (OUT)	Ocean - Synthetic Curve, 2 yrs	2	0.069	12.100	1.16	69.08	0.039
BG 1 (IN)	Ocean - Synthetic Curve, 10yrs	10	0.168	12.100	2.12	(N/A)	(N/A)
BG 1 (OUT)	Ocean - Synthetic Curve, 10yrs	10	0.134	12.100	1.94	69.12	0.042
BG 1 (IN)	Ocean - Synthetic Curve, 100yrs	100	0.310	12.100	3.79	(N/A)	(N/A)
BG 1 (OUT)	Ocean - Synthetic Curve, 100yrs	100	0.275	12.100	3.53	69.17	0.045
BG 2 (IN)	Ocean - Time-Depth Curve, 1 yrs	1	0.030	1.050	1.05	(N/A)	(N/A)
BG 2 (OUT)	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00	69.03	0.030
BG 2 (IN)	Ocean - Synthetic Curve, 2 yrs	2	0.093	12.100	1.22	(N/A)	(N/A)
BG 2 (OUT)	Ocean - Synthetic Curve, 2 yrs	2	0.058	12.100	0.98	69.16	0.040
BG 2 (IN)	Ocean - Synthetic Curve, 10yrs	10	0.154	12.100	1.91	(N/A)	(N/A)
BG 2 (OUT)	Ocean - Synthetic Curve, 10yrs	10	0.119	12.100	1.60	69.20	0.042
BG 2 (IN)	Ocean - Synthetic Curve, 100yrs	100	0.293	12.100	3.72	(N/A)	(N/A)
BG 2 (OUT)	Ocean - Synthetic Curve, 100yrs	100	0.258	12.100	3.33	69.27	0.047
BG 3 (IN)	Ocean - Time-Depth Curve, 1 yrs	1	0.033	1.050	1.16	(N/A)	(N/A)
BG 3 (OUT)	Ocean - Time-Depth Curve, 1 yrs	1	0.000	0.000	0.00	68.92	0.033

Subsection: Master Network Summary

**Pond Summary**

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft³/s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
BG 3 (IN)	Ocean - Synthetic Curve, 2 yrs	2	0.101	12.100	1.35	(N/A)	(N/A)
BG 3 (OUT)	Ocean - Synthetic Curve, 2 yrs	2	0.055	12.150	0.87	69.16	0.051
BG 3 (IN)	Ocean - Synthetic Curve, 10yrs	10	0.165	12.100	2.11	(N/A)	(N/A)
BG 3 (OUT)	Ocean - Synthetic Curve, 10yrs	10	0.120	12.100	1.79	69.21	0.056
BG 3 (IN)	Ocean - Synthetic Curve, 100yrs	100	0.309	12.100	3.79	(N/A)	(N/A)
BG 3 (OUT)	Ocean - Synthetic Curve, 100yrs	100	0.263	12.100	3.37	69.27	0.061

Subsection: Time-Depth Curve

Label: Ocean - NOAA D

Scenario: Ocean - Synthetic Curve, 100yrs

Return Event: 100 years

Storm Event: 100yr (9.2in)

Time-Depth Curve: 100yr (9.2in)

Label	100yr (9.2in)
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	100 years

**CUMULATIVE RAINFALL (in)**

**Output Time Increment = 0.100 hours**

**Time on left represents time for first value in each row.**

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.1	0.1	0.1	0.1	0.1
1.000	0.1	0.1	0.1	0.1	0.2
1.500	0.2	0.2	0.2	0.2	0.2
2.000	0.2	0.2	0.2	0.3	0.3
2.500	0.3	0.3	0.3	0.3	0.3
3.000	0.3	0.4	0.4	0.4	0.4
3.500	0.4	0.4	0.4	0.5	0.5
4.000	0.5	0.5	0.5	0.5	0.5
4.500	0.6	0.6	0.6	0.6	0.6
5.000	0.6	0.6	0.7	0.7	0.7
5.500	0.7	0.7	0.7	0.8	0.8
6.000	0.8	0.8	0.8	0.8	0.9
6.500	0.9	0.9	0.9	0.9	0.9
7.000	1.0	1.0	1.0	1.0	1.1
7.500	1.1	1.1	1.1	1.1	1.2
8.000	1.2	1.2	1.2	1.3	1.3
8.500	1.3	1.3	1.4	1.4	1.4
9.000	1.5	1.5	1.5	1.6	1.6
9.500	1.6	1.7	1.7	1.7	1.8
10.000	1.8	1.9	1.9	2.0	2.0
10.500	2.1	2.1	2.2	2.2	2.3
11.000	2.4	2.5	2.6	2.7	2.8
11.500	2.9	3.1	3.3	3.5	3.8
12.000	4.4	5.4	5.7	5.9	6.1
12.500	6.3	6.4	6.5	6.6	6.7
13.000	6.8	6.9	7.0	7.0	7.1
13.500	7.1	7.2	7.2	7.3	7.3
14.000	7.4	7.4	7.5	7.5	7.5
14.500	7.6	7.6	7.6	7.7	7.7
15.000	7.7	7.8	7.8	7.8	7.9
15.500	7.9	7.9	7.9	8.0	8.0
16.000	8.0	8.0	8.1	8.1	8.1
16.500	8.1	8.1	8.2	8.2	8.2
17.000	8.2	8.3	8.3	8.3	8.3

Subsection: Time-Depth Curve

Label: Ocean - NOAA D

Scenario: Ocean - Synthetic Curve, 100yrs

Return Event: 100 years

Storm Event: 100yr (9.2in)

**CUMULATIVE RAINFALL (in)**

**Output Time Increment = 0.100 hours**

**Time on left represents time for first value in each row.**

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
17.500	8.3	8.3	8.4	8.4	8.4
18.000	8.4	8.4	8.4	8.5	8.5
18.500	8.5	8.5	8.5	8.5	8.6
19.000	8.6	8.6	8.6	8.6	8.6
19.500	8.6	8.7	8.7	8.7	8.7
20.000	8.7	8.7	8.7	8.8	8.8
20.500	8.8	8.8	8.8	8.8	8.8
21.000	8.9	8.9	8.9	8.9	8.9
21.500	8.9	8.9	8.9	9.0	9.0
22.000	9.0	9.0	9.0	9.0	9.0
22.500	9.0	9.0	9.1	9.1	9.1
23.000	9.1	9.1	9.1	9.1	9.1
23.500	9.1	9.2	9.2	9.2	9.2
24.000	9.2	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time-Depth Curve

Label: Ocean - NOAA D

Scenario: Ocean - Synthetic Curve, 10yrs

Return Event: 10 years

Storm Event: 10yr (5.33in)

Time-Depth Curve: 10yr (5.33in)

Label	10yr (5.33in)
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	10 years

**CUMULATIVE RAINFALL (in)**

**Output Time Increment = 0.100 hours**

**Time on left represents time for first value in each row.**

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.0	0.0	0.0	0.1
1.000	0.1	0.1	0.1	0.1	0.1
1.500	0.1	0.1	0.1	0.1	0.1
2.000	0.1	0.1	0.1	0.1	0.2
2.500	0.2	0.2	0.2	0.2	0.2
3.000	0.2	0.2	0.2	0.2	0.2
3.500	0.2	0.2	0.3	0.3	0.3
4.000	0.3	0.3	0.3	0.3	0.3
4.500	0.3	0.3	0.3	0.3	0.4
5.000	0.4	0.4	0.4	0.4	0.4
5.500	0.4	0.4	0.4	0.4	0.4
6.000	0.5	0.5	0.5	0.5	0.5
6.500	0.5	0.5	0.5	0.5	0.5
7.000	0.6	0.6	0.6	0.6	0.6
7.500	0.6	0.6	0.7	0.7	0.7
8.000	0.7	0.7	0.7	0.7	0.8
8.500	0.8	0.8	0.8	0.8	0.8
9.000	0.8	0.9	0.9	0.9	0.9
9.500	0.9	1.0	1.0	1.0	1.0
10.000	1.1	1.1	1.1	1.1	1.2
10.500	1.2	1.2	1.3	1.3	1.3
11.000	1.4	1.4	1.5	1.6	1.6
11.500	1.7	1.8	1.9	2.0	2.2
12.000	2.6	3.1	3.3	3.4	3.5
12.500	3.6	3.7	3.8	3.8	3.9
13.000	3.9	4.0	4.0	4.1	4.1
13.500	4.1	4.2	4.2	4.2	4.2
14.000	4.3	4.3	4.3	4.3	4.4
14.500	4.4	4.4	4.4	4.4	4.5
15.000	4.5	4.5	4.5	4.5	4.5
15.500	4.6	4.6	4.6	4.6	4.6
16.000	4.6	4.7	4.7	4.7	4.7
16.500	4.7	4.7	4.7	4.7	4.8
17.000	4.8	4.8	4.8	4.8	4.8

Subsection: Time-Depth Curve

Label: Ocean - NOAA D

Scenario: Ocean - Synthetic Curve, 10yrs

Return Event: 10 years

Storm Event: 10yr (5.33in)

**CUMULATIVE RAINFALL (in)**

**Output Time Increment = 0.100 hours**

**Time on left represents time for first value in each row.**

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
17.500	4.8	4.8	4.8	4.9	4.9
18.000	4.9	4.9	4.9	4.9	4.9
18.500	4.9	4.9	4.9	4.9	5.0
19.000	5.0	5.0	5.0	5.0	5.0
19.500	5.0	5.0	5.0	5.0	5.0
20.000	5.1	5.1	5.1	5.1	5.1
20.500	5.1	5.1	5.1	5.1	5.1
21.000	5.1	5.1	5.1	5.2	5.2
21.500	5.2	5.2	5.2	5.2	5.2
22.000	5.2	5.2	5.2	5.2	5.2
22.500	5.2	5.2	5.2	5.3	5.3
23.000	5.3	5.3	5.3	5.3	5.3
23.500	5.3	5.3	5.3	5.3	5.3
24.000	5.3	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Time-Depth Curve

Label: WQ

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

Time-Depth Curve: 2hr (1.25in)

Label	2hr (1.25in)
Start Time	0.000 hours
Increment	0.083 hours
End Time	2.000 hours
Return Event	1 years

**CUMULATIVE RAINFALL (in)**

**Output Time Increment = 0.083 hours**

**Time on left represents time for first value in each row.**

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.1
0.417	0.1	0.1	0.1	0.2	0.2
0.833	0.3	0.4	0.6	0.9	1.0
1.250	1.1	1.1	1.1	1.2	1.2
1.667	1.2	1.2	1.2	1.2	1.3

Subsection: Time-Depth Curve

Label: Ocean - NOAA D

Scenario: Ocean - Synthetic Curve, 2 yrs

Return Event: 2 years

Storm Event: 2yr (3.42in)

Time-Depth Curve: 2yr (3.42in)

Label	2yr (3.42in)
Start Time	0.000 hours
Increment	0.100 hours
End Time	24.000 hours
Return Event	2 years

**CUMULATIVE RAINFALL (in)**

**Output Time Increment = 0.100 hours**

**Time on left represents time for first value in each row.**

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
0.000	0.0	0.0	0.0	0.0	0.0
0.500	0.0	0.0	0.0	0.0	0.0
1.000	0.0	0.0	0.0	0.1	0.1
1.500	0.1	0.1	0.1	0.1	0.1
2.000	0.1	0.1	0.1	0.1	0.1
2.500	0.1	0.1	0.1	0.1	0.1
3.000	0.1	0.1	0.1	0.1	0.1
3.500	0.2	0.2	0.2	0.2	0.2
4.000	0.2	0.2	0.2	0.2	0.2
4.500	0.2	0.2	0.2	0.2	0.2
5.000	0.2	0.2	0.2	0.3	0.3
5.500	0.3	0.3	0.3	0.3	0.3
6.000	0.3	0.3	0.3	0.3	0.3
6.500	0.3	0.3	0.3	0.3	0.4
7.000	0.4	0.4	0.4	0.4	0.4
7.500	0.4	0.4	0.4	0.4	0.4
8.000	0.4	0.5	0.5	0.5	0.5
8.500	0.5	0.5	0.5	0.5	0.5
9.000	0.5	0.6	0.6	0.6	0.6
9.500	0.6	0.6	0.6	0.6	0.7
10.000	0.7	0.7	0.7	0.7	0.7
10.500	0.8	0.8	0.8	0.8	0.9
11.000	0.9	0.9	1.0	1.0	1.0
11.500	1.1	1.1	1.2	1.3	1.4
12.000	1.6	2.0	2.1	2.2	2.3
12.500	2.3	2.4	2.4	2.5	2.5
13.000	2.5	2.6	2.6	2.6	2.6
13.500	2.7	2.7	2.7	2.7	2.7
14.000	2.7	2.8	2.8	2.8	2.8
14.500	2.8	2.8	2.8	2.9	2.9
15.000	2.9	2.9	2.9	2.9	2.9
15.500	2.9	2.9	2.9	3.0	3.0
16.000	3.0	3.0	3.0	3.0	3.0
16.500	3.0	3.0	3.0	3.0	3.1
17.000	3.1	3.1	3.1	3.1	3.1

Subsection: Time-Depth Curve

Label: Ocean - NOAA D

Scenario: Ocean - Synthetic Curve, 2 yrs

Return Event: 2 years

Storm Event: 2yr (3.42in)

**CUMULATIVE RAINFALL (in)**

**Output Time Increment = 0.100 hours**

**Time on left represents time for first value in each row.**

Time (hours)	Depth (in)	Depth (in)	Depth (in)	Depth (in)	Depth (in)
17.500	3.1	3.1	3.1	3.1	3.1
18.000	3.1	3.1	3.1	3.1	3.2
18.500	3.2	3.2	3.2	3.2	3.2
19.000	3.2	3.2	3.2	3.2	3.2
19.500	3.2	3.2	3.2	3.2	3.2
20.000	3.2	3.2	3.3	3.3	3.3
20.500	3.3	3.3	3.3	3.3	3.3
21.000	3.3	3.3	3.3	3.3	3.3
21.500	3.3	3.3	3.3	3.3	3.3
22.000	3.3	3.3	3.3	3.4	3.4
22.500	3.4	3.4	3.4	3.4	3.4
23.000	3.4	3.4	3.4	3.4	3.4
23.500	3.4	3.4	3.4	3.4	3.4
24.000	3.4	(N/A)	(N/A)	(N/A)	(N/A)

Subsection: Runoff CN-Area

Return Event: 1 years

Label: Area 3-7

Storm Event: 2hr (1.25in)

Scenario: Ocean - Time-Depth Curve, 1 yrs

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open COMPOSITE AREA & WEIGHTED CN --->	39.000 (N/A)	0.510 0.510	0.0 (N/A)	0.0 (N/A)	39.000 39.000

Subsection: Runoff CN-Area

Return Event: 1 years

Label: Area 3-7 imp

Storm Event: 2hr (1.25in)

Scenario: Ocean - Time-Depth Curve, 1 yrs

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious COMPOSITE AREA & WEIGHTED CN --->	98.000 (N/A)	1.500 1.500	0.0 (N/A)	0.0 (N/A)	98.000 98.000

Subsection: Runoff CN-Area

Label: BG 1

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open COMPOSITE AREA & WEIGHTED CN --->	39.000 (N/A)	0.100 0.100	0.0 (N/A)	0.0 (N/A)	39.000 39.000

Subsection: Runoff CN-Area

Return Event: 1 years

Label: BG 2

Storm Event: 2hr (1.25in)

Scenario: Ocean - Time-Depth Curve, 1 yrs

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open COMPOSITE AREA & WEIGHTED CN --->	39.000 (N/A)	0.220 0.220	0.0 (N/A)	0.0 (N/A)	39.000 39.000

Subsection: Runoff CN-Area

Label: BG 3

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open COMPOSITE AREA & WEIGHTED CN --->	39.000 (N/A)	0.180 0.180	0.0 (N/A)	0.0 (N/A)	39.000 39.000

Subsection: Runoff CN-Area

Label: BG 4

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Woods	30.000	0.010	0.0	0.0	30.000
Open	39.000	0.200	0.0	0.0	39.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.210	(N/A)	(N/A)	38.571

Subsection: Runoff CN-Area

Return Event: 1 years

Label: ByPass 1

Storm Event: 2hr (1.25in)

Scenario: Ocean - Time-Depth Curve, 1 yrs

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open COMPOSITE AREA & WEIGHTED CN --->	39.000 (N/A)	0.020 0.020	0.0 (N/A)	0.0 (N/A)	39.000 39.000

Subsection: Runoff CN-Area  
Label: ByPass 1 imp  
Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years  
Storm Event: 2hr (1.25in)

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious COMPOSITE AREA & WEIGHTED CN --->	98.000 (N/A)	0.030 0.030	0.0 (N/A)	0.0 (N/A)	98.000 98.000

Subsection: Runoff CN-Area

Return Event: 1 years

Label: ByPass 2

Storm Event: 2hr (1.25in)

Scenario: Ocean - Time-Depth Curve, 1 yrs

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open Woods	39.000 30.000	0.160 0.150	0.0 0.0	0.0 0.0	39.000 30.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.310	(N/A)	(N/A)	34.645

Subsection: Runoff CN-Area

Return Event: 1 years

Label: ByPass 3

Storm Event: 2hr (1.25in)

Scenario: Ocean - Time-Depth Curve, 1 yrs

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open COMPOSITE AREA & WEIGHTED CN --->	39.000 (N/A)	0.070 0.070	0.0 (N/A)	0.0 (N/A)	39.000 39.000

Subsection: Runoff CN-Area

Return Event: 1 years

Label: CC 1

Storm Event: 2hr (1.25in)

Scenario: Ocean - Time-Depth Curve, 1 yrs

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open COMPOSITE AREA & WEIGHTED CN --->	39.000 (N/A)	0.030 0.030	0.0 (N/A)	0.0 (N/A)	39.000 39.000

Subsection: Runoff CN-Area

Label: CC 1 imp

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious	98.000	0.220	0.0	0.0	98.000
Roof	98.000	0.170	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.390	(N/A)	(N/A)	98.000

Subsection: Runoff CN-Area

Return Event: 1 years

Label: CC 2 imp

Storm Event: 2hr (1.25in)

Scenario: Ocean - Time-Depth Curve, 1 yrs

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious	98.000	0.180	0.0	0.0	98.000
Roof	98.000	0.170	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.350	(N/A)	(N/A)	98.000

Subsection: Runoff CN-Area

Return Event: 1 years

Label: CC 3 imp

Storm Event: 2hr (1.25in)

Scenario: Ocean - Time-Depth Curve, 1 yrs

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious	98.000	0.210	0.0	0.0	98.000
Roof	98.000	0.170	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.380	(N/A)	(N/A)	98.000

Subsection: Runoff CN-Area

Label: CC 4

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Open COMPOSITE AREA & WEIGHTED CN --->	39.000 (N/A)	0.030 0.030	0.0 (N/A)	0.0 (N/A)	39.000 39.000

Subsection: Runoff CN-Area

Label: CC 4 imp

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

### Runoff Curve Number Data

Soil/Surface Description	CN	Area (acres)	C (%)	UC (%)	Adjusted CN
Impervious	98.000	0.200	0.0	0.0	98.000
Roof	98.000	0.170	0.0	0.0	98.000
COMPOSITE AREA & WEIGHTED CN --->	(N/A)	0.370	(N/A)	(N/A)	98.000

Subsection: Addition Summary

Label: Basin 1

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

### Summary for Hydrograph Addition at 'Basin 1'

Upstream Link	Upstream Node
	HW 15
45 LF 15" Pipe	HW 31

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	HW 15	0.129	1.150	2.44
Flow (From)	HW 31	0.000	0.000	0.00
Flow (In)	Basin 1	0.129	1.150	2.44

Subsection: Addition Summary

Label: Basin 1

Scenario: Ocean - Synthetic Curve, 2 yrs

Return Event: 2 years

Storm Event: 2yr (3.42in)

### Summary for Hydrograph Addition at 'Basin 1'

Upstream Link	Upstream Node
	HW 15
45 LF 15" Pipe	HW 31

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	HW 15	0.581	12.150	5.73
Flow (From)	HW 31	0.052	12.150	0.64
Flow (In)	Basin 1	0.633	12.150	6.38

Subsection: Addition Summary

Label: Basin 1

Scenario: Ocean - Synthetic Curve, 10yrs

Return Event: 10 years

Storm Event: 10yr (5.33in)

### Summary for Hydrograph Addition at 'Basin 1'

Upstream Link	Upstream Node
	HW 15
45 LF 15" Pipe	HW 31

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	HW 15	1.020	12.150	9.20
Flow (From)	HW 31	0.116	12.100	1.60
Flow (In)	Basin 1	1.137	12.150	10.78

Subsection: Addition Summary

Label: Basin 1

Scenario: Ocean - Synthetic Curve, 100yrs

Return Event: 100 years

Storm Event: 100yr (9.2in)

### Summary for Hydrograph Addition at 'Basin 1'

Upstream Link	Upstream Node
	HW 15
45 LF 15" Pipe	HW 31

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	HW 15	1.988	12.100	17.01
Flow (From)	HW 31	0.264	12.100	2.99
Flow (In)	Basin 1	2.252	12.100	20.00

Subsection: Addition Summary

Label: CB 38

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

### Summary for Hydrograph Addition at 'CB 38'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	ByPass 3

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	ByPass 3	0.000	0.000	0.00
Flow (In)	CB 38	0.000	0.000	0.00

Subsection: Addition Summary

Label: CB 38

Scenario: Ocean - Synthetic Curve, 2 yrs

Return Event: 2 years

Storm Event: 2yr (3.42in)

### Summary for Hydrograph Addition at 'CB 38'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	ByPass 3

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	ByPass 3	0.000	24.000	0.00
Flow (In)	CB 38	0.000	24.000	0.00

Subsection: Addition Summary

Label: CB 38

Scenario: Ocean - Synthetic Curve, 10yrs

Return Event: 10 years

Storm Event: 10yr (5.33in)

### Summary for Hydrograph Addition at 'CB 38'

Upstream Link <Catchment to Outflow Node>	Upstream Node ByPass 3
--	---------------------------

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	ByPass 3	0.002	12.950	0.00
Flow (In)	CB 38	0.002	12.950	0.00

Subsection: Addition Summary

Label: CB 38

Scenario: Ocean - Synthetic Curve, 100yrs

Return Event: 100 years

Storm Event: 100yr (9.2in)

### Summary for Hydrograph Addition at 'CB 38'

Upstream Link <Catchment to Outflow Node>	Upstream Node ByPass 3
--	---------------------------

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	ByPass 3	0.010	12.200	0.07
Flow (In)	CB 38	0.010	12.200	0.07

Subsection: Addition Summary

Label: CB 39

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

### Summary for Hydrograph Addition at 'CB 39'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	ByPass 1 imp
<Catchment to Outflow Node>	ByPass 1

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	ByPass 1 imp	0.003	1.050	0.09
Flow (From)	ByPass 1	0.000	0.000	0.00
Flow (In)	CB 39	0.003	1.050	0.09

Subsection: Addition Summary

Label: CB 39

Scenario: Ocean - Synthetic Curve, 2 yrs

Return Event: 2 years

Storm Event: 2yr (3.42in)

### Summary for Hydrograph Addition at 'CB 39'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	ByPass 1 imp
<Catchment to Outflow Node>	ByPass 1

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	ByPass 1 imp	0.008	12.100	0.11
Flow (From)	ByPass 1	0.000	24.000	0.00
Flow (In)	CB 39	0.008	12.100	0.11

Subsection: Addition Summary

Label: CB 39

Scenario: Ocean - Synthetic Curve, 10yrs

Return Event: 10 years

Storm Event: 10yr (5.33in)

### Summary for Hydrograph Addition at 'CB 39'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	ByPass 1 imp
<Catchment to Outflow Node>	ByPass 1

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	ByPass 1 imp	0.013	12.100	0.17
Flow (From)	ByPass 1	0.000	12.500	0.00
Flow (In)	CB 39	0.013	12.100	0.17

Subsection: Addition Summary

Label: CB 39

Scenario: Ocean - Synthetic Curve, 100yrs

Return Event: 100 years

Storm Event: 100yr (9.2in)

### Summary for Hydrograph Addition at 'CB 39'

Upstream Link	Upstream Node
<Catchment to Outflow Node>	ByPass 1 imp
<Catchment to Outflow Node>	ByPass 1

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	ByPass 1 imp	0.022	12.100	0.29
Flow (From)	ByPass 1	0.003	12.100	0.04
Flow (In)	CB 39	0.025	12.100	0.33

Subsection: Addition Summary

Label: CB 9

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

### Summary for Hydrograph Addition at 'CB 9'

Upstream Link	Upstream Node
BG 1	BG 1
<Catchment to Outflow Node>	Area 3-7
<Catchment to Outflow Node>	Area 3-7 imp
BG 2	BG 2

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	BG 1	0.000	0.000	0.00
Flow (From)	Area 3-7	0.000	0.000	0.00
Flow (From)	Area 3-7 imp	0.129	1.150	2.44
Flow (From)	BG 2	0.000	0.000	0.00
Flow (In)	CB 9	0.129	1.150	2.44

Subsection: Addition Summary

Label: CB 9

Scenario: Ocean - Synthetic Curve, 2 yrs

Return Event: 2 years

Storm Event: 2yr (3.42in)

### Summary for Hydrograph Addition at 'CB 9'

Upstream Link	Upstream Node
BG 1	BG 1
<Catchment to Outflow Node>	Area 3-7
<Catchment to Outflow Node>	Area 3-7 imp
BG 2	BG 2

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	BG 1	0.069	12.100	1.16
Flow (From)	Area 3-7	0.000	24.000	0.00
Flow (From)	Area 3-7 imp	0.398	12.200	2.89
Flow (From)	BG 2	0.058	12.100	0.98
Flow (In)	CB 9	0.526	12.150	4.86

Subsection: Addition Summary

Label: CB 9

Scenario: Ocean - Synthetic Curve, 10yrs

Return Event: 10 years

Storm Event: 10yr (5.33in)

### Summary for Hydrograph Addition at 'CB 9'

Upstream Link	Upstream Node
BG 1	BG 1
<Catchment to Outflow Node>	Area 3-7
<Catchment to Outflow Node>	Area 3-7 imp
BG 2	BG 2

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	BG 1	0.134	12.100	1.94
Flow (From)	Area 3-7	0.012	13.000	0.02
Flow (From)	Area 3-7 imp	0.637	12.200	4.53
Flow (From)	BG 2	0.119	12.100	1.60
Flow (In)	CB 9	0.901	12.150	7.60

Subsection: Addition Summary

Label: CB 9

Scenario: Ocean - Synthetic Curve, 100yrs

Return Event: 100 years

Storm Event: 100yr (9.2in)

### Summary for Hydrograph Addition at 'CB 9'

Upstream Link	Upstream Node
BG 1	BG 1
<Catchment to Outflow Node>	Area 3-7
<Catchment to Outflow Node>	Area 3-7 imp
BG 2	BG 2

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	BG 1	0.275	12.100	3.53
Flow (From)	Area 3-7	0.072	12.250	0.42
Flow (From)	Area 3-7 imp	1.120	12.200	7.85
Flow (From)	BG 2	0.258	12.100	3.33
Flow (In)	CB 9	1.725	12.150	14.01

Subsection: Addition Summary

Label: HW 15

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

### Summary for Hydrograph Addition at 'HW 15'

Upstream Link	Upstream Node
48 LF 30" Pipe	OS BG 3

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	OS BG 3	0.129	1.150	2.44
Flow (In)	HW 15	0.129	1.150	2.44

Subsection: Addition Summary

Label: HW 15

Scenario: Ocean - Synthetic Curve, 2 yrs

Return Event: 2 years

Storm Event: 2yr (3.42in)

### Summary for Hydrograph Addition at 'HW 15'

Upstream Link	Upstream Node
48 LF 30" Pipe	OS BG 3

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	OS BG 3	0.581	12.150	5.73
Flow (In)	HW 15	0.581	12.150	5.73

Subsection: Addition Summary

Label: HW 15

Scenario: Ocean - Synthetic Curve, 10yrs

Return Event: 10 years

Storm Event: 10yr (5.33in)

### Summary for Hydrograph Addition at 'HW 15'

Upstream Link	Upstream Node
48 LF 30" Pipe	OS BG 3

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	OS BG 3	1.020	12.150	9.20
Flow (In)	HW 15	1.020	12.150	9.20

Subsection: Addition Summary

Label: HW 15

Scenario: Ocean - Synthetic Curve, 100yrs

Return Event: 100 years

Storm Event: 100yr (9.2in)

### Summary for Hydrograph Addition at 'HW 15'

Upstream Link	Upstream Node
48 LF 30" Pipe	OS BG 3

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	OS BG 3	1.988	12.100	17.01
Flow (In)	HW 15	1.988	12.100	17.01

Subsection: Addition Summary

Label: HW 31

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

### Summary for Hydrograph Addition at 'HW 31'

Upstream Link	Upstream Node
BG 4	BG 4

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	BG 4	0.000	0.000	0.00
Flow (In)	HW 31	0.000	0.000	0.00

Subsection: Addition Summary

Label: HW 31

Scenario: Ocean - Synthetic Curve, 2 yrs

Return Event: 2 years

Storm Event: 2yr (3.42in)

### Summary for Hydrograph Addition at 'HW 31'

Upstream Link	Upstream Node
BG 4	BG 4

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	BG 4	0.052	12.150	0.64
Flow (In)	HW 31	0.052	12.150	0.64

Subsection: Addition Summary

Label: HW 31

Scenario: Ocean - Synthetic Curve, 10yrs

Return Event: 10 years

Storm Event: 10yr (5.33in)

### Summary for Hydrograph Addition at 'HW 31'

Upstream Link	Upstream Node
BG 4	BG 4

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	BG 4	0.116	12.100	1.60
Flow (In)	HW 31	0.116	12.100	1.60

Subsection: Addition Summary

Label: HW 31

Scenario: Ocean - Synthetic Curve, 100yrs

Return Event: 100 years

Storm Event: 100yr (9.2in)

### Summary for Hydrograph Addition at 'HW 31'

Upstream Link	Upstream Node
BG 4	BG 4

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	BG 4	0.264	12.100	2.99
Flow (In)	HW 31	0.264	12.100	2.99

Subsection: Addition Summary

Label: OS BG 3

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

### Summary for Hydrograph Addition at 'OS BG 3'

Upstream Link	Upstream Node
BG 3	BG 3
268 LF 30" Pipe	CB 9

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	BG 3	0.000	0.000	0.00
Flow (From)	CB 9	0.129	1.150	2.44
Flow (In)	OS BG 3	0.129	1.150	2.44

Subsection: Addition Summary

Label: OS BG 3

Scenario: Ocean - Synthetic Curve, 2 yrs

Return Event: 2 years

Storm Event: 2yr (3.42in)

### Summary for Hydrograph Addition at 'OS BG 3'

Upstream Link	Upstream Node
BG 3	BG 3
268 LF 30" Pipe	CB 9

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	BG 3	0.055	12.150	0.87
Flow (From)	CB 9	0.526	12.150	4.86
Flow (In)	OS BG 3	0.581	12.150	5.73

Subsection: Addition Summary

Label: OS BG 3

Scenario: Ocean - Synthetic Curve, 10yrs

Return Event: 10 years

Storm Event: 10yr (5.33in)

### Summary for Hydrograph Addition at 'OS BG 3'

Upstream Link	Upstream Node
BG 3	BG 3
268 LF 30" Pipe	CB 9

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	BG 3	0.120	12.100	1.79
Flow (From)	CB 9	0.901	12.150	7.60
Flow (In)	OS BG 3	1.020	12.150	9.20

Subsection: Addition Summary

Label: OS BG 3

Scenario: Ocean - Synthetic Curve, 100yrs

Return Event: 100 years

Storm Event: 100yr (9.2in)

### Summary for Hydrograph Addition at 'OS BG 3'

Upstream Link	Upstream Node
BG 3	BG 3
268 LF 30" Pipe	CB 9

### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	BG 3	0.263	12.100	3.37
Flow (From)	CB 9	1.725	12.150	14.01
Flow (In)	OS BG 3	1.988	12.100	17.01

Subsection: Addition Summary

Label: Sump 2,3,4

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

### Summary for Hydrograph Addition at 'Sump 2,3,4'

Upstream Link <Catchment to Outflow Node>	Upstream Node ByPass 2
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#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	ByPass 2	0.000	0.000	0.00
Flow (In)	Sump 2,3,4	0.000	0.000	0.00

Subsection: Addition Summary

Label: Sump 2,3,4

Scenario: Ocean - Synthetic Curve, 2 yrs

Return Event: 2 years

Storm Event: 2yr (3.42in)

### Summary for Hydrograph Addition at 'Sump 2,3,4'

Upstream Link <Catchment to Outflow Node>	Upstream Node ByPass 2
--	---------------------------

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	ByPass 2	0.000	0.000	0.00
Flow (In)	Sump 2,3,4	0.000	0.000	0.00

Subsection: Addition Summary

Label: Sump 2,3,4

Scenario: Ocean - Synthetic Curve, 10yrs

Return Event: 10 years

Storm Event: 10yr (5.33in)

### Summary for Hydrograph Addition at 'Sump 2,3,4'

Upstream Link <Catchment to Outflow Node>	Upstream Node ByPass 2
--	---------------------------

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft³/s)
Flow (From)	ByPass 2	0.003	14.450	0.00
Flow (In)	Sump 2,3,4	0.003	14.450	0.00

Subsection: Addition Summary

Label: Sump 2,3,4

Scenario: Ocean - Synthetic Curve, 100yrs

Return Event: 100 years

Storm Event: 100yr (9.2in)

### Summary for Hydrograph Addition at 'Sump 2,3,4'

Upstream Link <Catchment to Outflow Node>	Upstream Node ByPass 2
--	---------------------------

#### Node Inflows

Inflow Type	Element	Volume (ac-ft)	Time to Peak (hours)	Flow (Peak) (ft <sup>3</sup> /s)
Flow (From)	ByPass 2	0.032	12.250	0.17
Flow (In)	Sump 2,3,4	0.032	12.250	0.17

Subsection: Elevation-Area Volume Curve

Label: BG 1

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

Elevation (ft)	Planimeter (ft <sup>2</sup> )	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
68.10	0.00	0.020	0.000	0.000	0.000
69.00	0.00	0.060	0.115	0.034	0.034
69.10	0.00	0.064	0.186	0.006	0.041
69.30	0.00	0.070	0.201	0.013	0.054

Subsection: Elevation-Area Volume Curve

Label: BG 2

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

Elevation (ft)	Planimeter (ft <sup>2</sup> )	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
68.10	0.00	0.010	0.000	0.000	0.000
69.00	0.00	0.060	0.094	0.028	0.028
69.10	0.00	0.070	0.195	0.006	0.035
69.50	0.00	0.100	0.254	0.034	0.069

Subsection: Elevation-Area Volume Curve

Label: BG 3

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

Elevation (ft)	Planimeter (ft <sup>2</sup> )	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
68.10	0.00	0.020	0.000	0.000	0.000
69.00	0.00	0.070	0.127	0.038	0.038
69.30	0.00	0.110	0.268	0.027	0.065
69.50	0.00	0.130	0.360	0.024	0.089

Subsection: Elevation-Area Volume Curve

Label: BG 4

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

Elevation (ft)	Planimeter (ft <sup>2</sup> )	Area (acres)	A1+A2+sqr (A1*A2) (acres)	Volume (ac-ft)	Volume (Total) (ac-ft)
67.80	0.00	0.010	0.000	0.000	0.000
68.00	0.00	0.030	0.057	0.004	0.004
68.80	0.00	0.080	0.159	0.042	0.046
69.00	0.00	0.110	0.284	0.019	0.065
69.50	0.00	0.170	0.417	0.069	0.135

Subsection: Outlet Input Data

Label: BG 1

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

---

Requested Pond Water Surface Elevations

---

Minimum (Headwater)	68.10 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	69.30 ft

---

**Outlet Connectivity**

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Inlet Box	Riser - 1	Forward	Culvert - 1	69.00	69.30
Culvert-Circular	Culvert - 1	Forward	TW	64.50	69.30
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data

Label: BG 1

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

Structure ID: Riser - 1  
Structure Type: Inlet Box

Number of Openings	1
Elevation	69.00 ft
Orifice Area	5.96 ft <sup>2</sup>
Orifice Coefficient	0.600
Weir Length	16.00 ft
Weir Coefficient	3.00 (ft <sup>0.5</sup> )/s
K Reverse	1.000
Manning's n	0.000
Kev, Charged Riser	0.000
Weir Submergence	False
Orifice H to crest	False

Structure ID: Culvert - 1  
Structure Type: Culvert-Circular

Number of Barrels	1
Diameter	15.000 in
Length	125.00 ft
Length (Computed Barrel)	125.01 ft
Slope (Computed)	0.010 ft/ft

Outlet Control Data

Manning's n	0.013
Ke	0.500
Kb	0.023
Kr	0.000
Convergence Tolerance	0.00 ft

Inlet Control Data

Equation Form	Form 1
K	0.0098
M	2.0000
C	0.0398
Y	0.6700
T1 ratio (HW/D)	1.155
T2 ratio (HW/D)	1.302
Slope Correction Factor	-0.500

Subsection: Outlet Input Data

Return Event: 1 years

Label: BG 1

Storm Event: 2hr (1.25in)

Scenario: Ocean - Time-Depth Curve, 1 yrs

---

Use unsubmerged inlet control 0 equation below T1 elevation.

Use submerged inlet control 0 equation above T2 elevation

In transition zone between unsubmerged and submerged inlet control,  
interpolate between flows at T1 & T2...

T1 Elevation	65.94 ft	T1 Flow	4.80 ft <sup>3</sup> /s
T2 Elevation	66.13 ft	T2 Flow	5.49 ft <sup>3</sup> /s

---

Subsection: Outlet Input Data

Label: BG 1

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

Structure ID:	TW
Structure Type:	TW Setup, DS Channel
Tailwater Type	Free Outfall
Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft <sup>3</sup> /s
Flow Tolerance (Maximum)	10.000 ft <sup>3</sup> /s

Subsection: Composite Rating Curve

Label: BG 1

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft <sup>3</sup> /s)	Tailwater Elevation (ft)	Convergence Error (ft)	Contributing Structures
68.10	0.00	(N/A)	0.00	(no Q: Riser - 1,Culvert - 1)
68.20	0.00	(N/A)	0.00	(no Q: Riser - 1,Culvert - 1)
68.30	0.00	(N/A)	0.00	(no Q: Riser - 1,Culvert - 1)
68.40	0.00	(N/A)	0.00	(no Q: Riser - 1,Culvert - 1)
68.50	0.00	(N/A)	0.00	(no Q: Riser - 1,Culvert - 1)
68.60	0.00	(N/A)	0.00	(no Q: Riser - 1,Culvert - 1)
68.70	0.00	(N/A)	0.00	(no Q: Riser - 1,Culvert - 1)
68.80	0.00	(N/A)	0.00	(no Q: Riser - 1,Culvert - 1)
68.90	0.00	(N/A)	0.00	(no Q: Riser - 1,Culvert - 1)
69.00	0.00	(N/A)	0.00	(no Q: Riser - 1,Culvert - 1)
69.10	1.52	(N/A)	0.00	Riser - 1,Culvert - 1
69.20	4.30	(N/A)	0.00	Riser - 1,Culvert - 1
69.30	7.89	(N/A)	0.00	Riser - 1,Culvert - 1

Subsection: Outlet Input Data

Label: BG 2

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

---

**Requested Pond Water Surface Elevations**

---

Minimum (Headwater)	68.10 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	69.50 ft

---

**Outlet Connectivity**

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Inlet Box	Riser - 1	Forward	TW	69.10	69.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data

Label: BG 2

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

Structure ID:	Riser - 1
Structure Type:	Inlet Box
Number of Openings	1
Elevation	69.10 ft
Orifice Area	6.19 ft <sup>2</sup>
Orifice Coefficient	0.600
Weir Length	16.00 ft
Weir Coefficient	3.00 (ft <sup>0.5</sup> )/s
K Reverse	1.000
Manning's n	0.000
Kev, Charged Riser	0.000
Weir Submergence	False
Orifice H to crest	True
Structure ID:	TW
Structure Type:	TW Setup, DS Channel
Tailwater Type	Free Outfall
Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft <sup>3</sup> /s
Flow Tolerance (Maximum)	10.000 ft <sup>3</sup> /s

Subsection: Composite Rating Curve

Return Event: 1 years

Label: BG 2

Storm Event: 2hr (1.25in)

Scenario: Ocean - Time-Depth Curve, 1 yrs

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft <sup>3</sup> /s)	Tailwater Elevation (ft)	Convergence Error (ft)	Contributing Structures
68.10	0.00	(N/A)	0.00	None Contributing
68.20	0.00	(N/A)	0.00	None Contributing
68.30	0.00	(N/A)	0.00	None Contributing
68.40	0.00	(N/A)	0.00	None Contributing
68.50	0.00	(N/A)	0.00	None Contributing
68.60	0.00	(N/A)	0.00	None Contributing
68.70	0.00	(N/A)	0.00	None Contributing
68.80	0.00	(N/A)	0.00	None Contributing
68.90	0.00	(N/A)	0.00	None Contributing
69.00	0.00	(N/A)	0.00	None Contributing
69.10	0.00	(N/A)	0.00	Riser - 1
69.20	1.52	(N/A)	0.00	Riser - 1
69.30	4.29	(N/A)	0.00	Riser - 1
69.40	7.89	(N/A)	0.00	Riser - 1
69.50	12.14	(N/A)	0.00	Riser - 1

Subsection: Outlet Input Data

Label: BG 3

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

---

**Requested Pond Water Surface Elevations**

---

Minimum (Headwater)	68.10 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	69.50 ft

---

**Outlet Connectivity**

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Inlet Box	Riser - 1	Forward	TW	69.10	69.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data

Label: BG 3

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

Structure ID:	Riser - 1
Structure Type: Inlet Box	
Number of Openings	1
Elevation	69.10 ft
Orifice Area	6.19 ft <sup>2</sup>
Orifice Coefficient	0.600
Weir Length	16.00 ft
Weir Coefficient	3.00 (ft <sup>0.5</sup> )/s
K Reverse	1.000
Manning's n	0.000
Kev, Charged Riser	0.000
Weir Submergence	False
Orifice H to crest	True
Structure ID: TW	
Structure Type: TW Setup, DS Channel	
Tailwater Type	Free Outfall
Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft <sup>3</sup> /s
Flow Tolerance (Maximum)	10.000 ft <sup>3</sup> /s

Subsection: Composite Rating Curve

Return Event: 1 years

Label: BG 3

Storm Event: 2hr (1.25in)

Scenario: Ocean - Time-Depth Curve, 1 yrs

Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft <sup>3</sup> /s)	Tailwater Elevation (ft)	Convergence Error (ft)	Contributing Structures
68.10	0.00	(N/A)	0.00	None Contributing
68.20	0.00	(N/A)	0.00	None Contributing
68.30	0.00	(N/A)	0.00	None Contributing
68.40	0.00	(N/A)	0.00	None Contributing
68.50	0.00	(N/A)	0.00	None Contributing
68.60	0.00	(N/A)	0.00	None Contributing
68.70	0.00	(N/A)	0.00	None Contributing
68.80	0.00	(N/A)	0.00	None Contributing
68.90	0.00	(N/A)	0.00	None Contributing
69.00	0.00	(N/A)	0.00	None Contributing
69.10	0.00	(N/A)	0.00	Riser - 1
69.20	1.52	(N/A)	0.00	Riser - 1
69.30	4.29	(N/A)	0.00	Riser - 1
69.40	7.89	(N/A)	0.00	Riser - 1
69.50	12.14	(N/A)	0.00	Riser - 1

Subsection: Outlet Input Data

Label: BG 4

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

---

Requested Pond Water Surface Elevations

---

Minimum (Headwater)	67.80 ft
Increment (Headwater)	0.10 ft
Maximum (Headwater)	69.50 ft

---

**Outlet Connectivity**

Structure Type	Outlet ID	Direction	Outfall	E1 (ft)	E2 (ft)
Inlet Box	Riser - 1	Forward	Culvert - 1	68.80	69.50
Culvert-Circular	Culvert - 1	Forward	TW	61.45	69.50
Tailwater Settings	Tailwater			(N/A)	(N/A)

Subsection: Outlet Input Data

Label: BG 4

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

Structure ID: Riser - 1  
Structure Type: Inlet Box

Number of Openings	1
Elevation	68.80 ft
Orifice Area	2.82 ft <sup>2</sup>
Orifice Coefficient	0.600
Weir Length	12.00 ft
Weir Coefficient	3.00 (ft <sup>0.5</sup> )/s
K Reverse	1.000
Manning's n	0.000
Kev, Charged Riser	0.000
Weir Submergence	False
Orifice H to crest	False

Structure ID: Culvert - 1  
Structure Type: Culvert-Circular

Number of Barrels	1
Diameter	15.000 in
Length	45.00 ft
Length (Computed Barrel)	45.00 ft
Slope (Computed)	0.010 ft/ft

Outlet Control Data

Manning's n	0.013
Ke	0.200
Kb	0.023
Kr	0.000
Convergence Tolerance	0.00 ft

Inlet Control Data

Equation Form	Form 1
K	0.0045
M	2.0000
C	0.0317
Y	0.6900
T1 ratio (HW/D)	1.090
T2 ratio (HW/D)	1.192
Slope Correction Factor	-0.500

Subsection: Outlet Input Data

Return Event: 1 years

Label: BG 4

Storm Event: 2hr (1.25in)

Scenario: Ocean - Time-Depth Curve, 1 yrs

---

Use unsubmerged inlet control 0 equation below T1 elevation.

Use submerged inlet control 0 equation above T2 elevation

In transition zone between unsubmerged and submerged inlet control,  
interpolate between flows at T1 & T2...

T1 Elevation	62.81 ft	T1 Flow	4.80 ft <sup>3</sup> /s
T2 Elevation	62.94 ft	T2 Flow	5.49 ft <sup>3</sup> /s

---

Subsection: Outlet Input Data

Label: BG 4

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

Structure ID:	TW
Structure Type:	TW Setup, DS Channel
Tailwater Type	Free Outfall
Convergence Tolerances	
Maximum Iterations	30
Tailwater Tolerance (Minimum)	0.01 ft
Tailwater Tolerance (Maximum)	0.50 ft
Headwater Tolerance (Minimum)	0.01 ft
Headwater Tolerance (Maximum)	0.50 ft
Flow Tolerance (Minimum)	0.001 ft <sup>3</sup> /s
Flow Tolerance (Maximum)	10.000 ft <sup>3</sup> /s

Subsection: Composite Rating Curve

Label: BG 4

Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years

Storm Event: 2hr (1.25in)

#### Composite Outflow Summary

Water Surface Elevation (ft)	Flow (ft³/s)	Tailwater Elevation (ft)	Convergence Error (ft)	Contributing Structures
67.80	0.00	(N/A)	0.00	(no Q: Riser - 1,Culvert - 1)
67.90	0.00	(N/A)	0.00	(no Q: Riser - 1,Culvert - 1)
68.00	0.00	(N/A)	0.00	(no Q: Riser - 1,Culvert - 1)
68.10	0.00	(N/A)	0.00	(no Q: Riser - 1,Culvert - 1)
68.20	0.00	(N/A)	0.00	(no Q: Riser - 1,Culvert - 1)
68.30	0.00	(N/A)	0.00	(no Q: Riser - 1,Culvert - 1)
68.40	0.00	(N/A)	0.00	(no Q: Riser - 1,Culvert - 1)
68.50	0.00	(N/A)	0.00	(no Q: Riser - 1,Culvert - 1)
68.60	0.00	(N/A)	0.00	(no Q: Riser - 1,Culvert - 1)
68.70	0.00	(N/A)	0.00	(no Q: Riser - 1,Culvert - 1)
68.80	0.00	(N/A)	0.00	(no Q: Riser - 1,Culvert - 1)
68.90	1.14	(N/A)	0.00	Riser - 1,Culvert - 1
69.00	3.22	(N/A)	0.00	Riser - 1,Culvert - 1
69.10	5.91	(N/A)	0.00	Riser - 1,Culvert - 1
69.20	8.59	(N/A)	0.00	Riser - 1,Culvert - 1
69.30	9.60	(N/A)	0.00	Riser - 1,Culvert - 1
69.40	10.51	(N/A)	0.00	Riser - 1,Culvert - 1
69.50	11.36	(N/A)	0.00	Riser - 1,Culvert - 1

Subsection: Level Pool Pond Routing Summary  
Label: BG 1 (IN)  
Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years  
Storm Event: 2hr (1.25in)

---

#### Infiltration

---

Infiltration Method (Computed)	No Infiltration
-----------------------------------	-----------------

---

#### Initial Conditions

---

Elevation (Water Surface, Initial)	68.10 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

---

#### Inflow/Outflow Hydrograph Summary

---

Flow (Peak In)	1.16 ft³/s	Time to Peak (Flow, In)	1.050 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.000 hours

---

Elevation (Water Surface, Peak)	68.99 ft
Volume (Peak)	0.034 ac-ft

---

#### Mass Balance (ac-ft)

---

Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	0.034 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.000 ac-ft
Volume (Retained)	0.034 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.1 %

---

Subsection: Level Pool Pond Routing Summary  
Label: BG 1 (IN)  
Scenario: Ocean - Synthetic Curve, 2 yrs

Return Event: 2 years  
Storm Event: 2yr (3.42in)

---

#### Infiltration

---

Infiltration Method (Computed)	No Infiltration
-----------------------------------	-----------------

---

#### Initial Conditions

---

Elevation (Water Surface, Initial)	68.10 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft <sup>3</sup> /s
Flow (Initial Infiltration)	0.00 ft <sup>3</sup> /s
Flow (Initial, Total)	0.00 ft <sup>3</sup> /s
Time Increment	0.050 hours

---

#### Inflow/Outflow Hydrograph Summary

---

Flow (Peak In)	1.36 ft <sup>3</sup> /s	Time to Peak (Flow, In)	12.100 hours
Flow (Peak Outlet)	1.16 ft <sup>3</sup> /s	Time to Peak (Flow, Outlet)	12.100 hours

---

Elevation (Water Surface, Peak)	69.08 ft
Volume (Peak)	0.039 ac-ft

---

#### Mass Balance (ac-ft)

---

Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	0.104 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.069 ac-ft
Volume (Retained)	0.034 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.0 %

---

Subsection: Level Pool Pond Routing Summary  
Label: BG 1 (IN)  
Scenario: Ocean - Synthetic Curve, 10yrs

Return Event: 10 years  
Storm Event: 10yr (5.33in)

---

#### Infiltration

---

Infiltration Method (Computed)	No Infiltration
-----------------------------------	-----------------

---

#### Initial Conditions

---

Elevation (Water Surface, Initial)	68.10 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

---

#### Inflow/Outflow Hydrograph Summary

---

Flow (Peak In)	2.12 ft³/s	Time to Peak (Flow, In)	12.100 hours
Flow (Peak Outlet)	1.94 ft³/s	Time to Peak (Flow, Outlet)	12.100 hours

---

Elevation (Water Surface, Peak)	69.12 ft
Volume (Peak)	0.042 ac-ft

---

#### Mass Balance (ac-ft)

---

Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	0.168 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.134 ac-ft
Volume (Retained)	0.034 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.0 %

---

Subsection: Level Pool Pond Routing Summary  
Label: BG 1 (IN)  
Scenario: Ocean - Synthetic Curve, 100yrs

Return Event: 100 years  
Storm Event: 100yr (9.2in)

---

#### Infiltration

---

Infiltration Method (Computed)	No Infiltration
-----------------------------------	-----------------

---

#### Initial Conditions

---

Elevation (Water Surface, Initial)	68.10 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft <sup>3</sup> /s
Flow (Initial Infiltration)	0.00 ft <sup>3</sup> /s
Flow (Initial, Total)	0.00 ft <sup>3</sup> /s
Time Increment	0.050 hours

---

#### Inflow/Outflow Hydrograph Summary

---

Flow (Peak In)	3.79 ft <sup>3</sup> /s	Time to Peak (Flow, In)	12.100 hours
Flow (Peak Outlet)	3.53 ft <sup>3</sup> /s	Time to Peak (Flow, Outlet)	12.100 hours

---

Elevation (Water Surface, Peak)	69.17 ft
Volume (Peak)	0.045 ac-ft

---

#### Mass Balance (ac-ft)

---

Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	0.310 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.275 ac-ft
Volume (Retained)	0.034 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.0 %

---

Subsection: Level Pool Pond Routing Summary  
Label: BG 2 (IN)  
Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years  
Storm Event: 2hr (1.25in)

---

#### Infiltration

---

Infiltration Method (Computed)	No Infiltration
-----------------------------------	-----------------

---

#### Initial Conditions

---

Elevation (Water Surface, Initial)	68.10 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

---

#### Inflow/Outflow Hydrograph Summary

---

Flow (Peak In)	1.05 ft³/s	Time to Peak (Flow, In)	1.050 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.000 hours

---

Elevation (Water Surface, Peak)	69.03 ft
Volume (Peak)	0.030 ac-ft

---

#### Mass Balance (ac-ft)

---

Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	0.030 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.000 ac-ft
Volume (Retained)	0.030 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.3 %

---

Subsection: Level Pool Pond Routing Summary  
Label: BG 2 (IN)  
Scenario: Ocean - Synthetic Curve, 2 yrs

Return Event: 2 years  
Storm Event: 2yr (3.42in)

---

#### Infiltration

---

Infiltration Method (Computed)	No Infiltration
-----------------------------------	-----------------

---

#### Initial Conditions

---

Elevation (Water Surface, Initial)	68.10 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

---

#### Inflow/Outflow Hydrograph Summary

---

Flow (Peak In)	1.22 ft³/s	Time to Peak (Flow, In)	12.100 hours
Flow (Peak Outlet)	0.98 ft³/s	Time to Peak (Flow, Outlet)	12.100 hours

---

Elevation (Water Surface, Peak)	69.16 ft
Volume (Peak)	0.040 ac-ft

---

#### Mass Balance (ac-ft)

---

Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	0.093 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.058 ac-ft
Volume (Retained)	0.035 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.0 %

---

Subsection: Level Pool Pond Routing Summary  
Label: BG 2 (IN)  
Scenario: Ocean - Synthetic Curve, 10yrs

Return Event: 10 years  
Storm Event: 10yr (5.33in)

---

#### Infiltration

---

Infiltration Method (Computed)	No Infiltration
-----------------------------------	-----------------

---

#### Initial Conditions

---

Elevation (Water Surface, Initial)	68.10 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

---

#### Inflow/Outflow Hydrograph Summary

---

Flow (Peak In)	1.91 ft³/s	Time to Peak (Flow, In)	12.100 hours
Flow (Peak Outlet)	1.60 ft³/s	Time to Peak (Flow, Outlet)	12.100 hours

---

Elevation (Water Surface, Peak)	69.20 ft
Volume (Peak)	0.042 ac-ft

---

#### Mass Balance (ac-ft)

---

Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	0.154 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.119 ac-ft
Volume (Retained)	0.035 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.0 %

---

Subsection: Level Pool Pond Routing Summary  
Label: BG 2 (IN)  
Scenario: Ocean - Synthetic Curve, 100yrs

Return Event: 100 years  
Storm Event: 100yr (9.2in)

---

#### Infiltration

---

Infiltration Method (Computed)	No Infiltration
-----------------------------------	-----------------

---

#### Initial Conditions

---

Elevation (Water Surface, Initial)	68.10 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft <sup>3</sup> /s
Flow (Initial Infiltration)	0.00 ft <sup>3</sup> /s
Flow (Initial, Total)	0.00 ft <sup>3</sup> /s
Time Increment	0.050 hours

---

#### Inflow/Outflow Hydrograph Summary

---

Flow (Peak In)	3.72 ft <sup>3</sup> /s	Time to Peak (Flow, In)	12.100 hours
Flow (Peak Outlet)	3.33 ft <sup>3</sup> /s	Time to Peak (Flow, Outlet)	12.100 hours

---

Elevation (Water Surface, Peak)	69.27 ft
Volume (Peak)	0.047 ac-ft

---

#### Mass Balance (ac-ft)

---

Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	0.293 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.258 ac-ft
Volume (Retained)	0.035 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.0 %

---

Subsection: Level Pool Pond Routing Summary  
Label: BG 3 (IN)  
Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years  
Storm Event: 2hr (1.25in)

---

#### Infiltration

---

Infiltration Method (Computed)	No Infiltration
-----------------------------------	-----------------

---

#### Initial Conditions

---

Elevation (Water Surface, Initial)	68.10 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

---

#### Inflow/Outflow Hydrograph Summary

---

Flow (Peak In)	1.16 ft³/s	Time to Peak (Flow, In)	1.050 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.000 hours

---

Elevation (Water Surface, Peak)	68.92 ft
Volume (Peak)	0.033 ac-ft

---

#### Mass Balance (ac-ft)

---

Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	0.033 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.000 ac-ft
Volume (Retained)	0.033 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.2 %

---

Subsection: Level Pool Pond Routing Summary  
Label: BG 3 (IN)  
Scenario: Ocean - Synthetic Curve, 2 yrs

Return Event: 2 years  
Storm Event: 2yr (3.42in)

---

#### Infiltration

---

Infiltration Method (Computed)	No Infiltration
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---

#### Initial Conditions

---

Elevation (Water Surface, Initial)	68.10 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

---

#### Inflow/Outflow Hydrograph Summary

---

Flow (Peak In)	1.35 ft³/s	Time to Peak (Flow, In)	12.100 hours
Flow (Peak Outlet)	0.87 ft³/s	Time to Peak (Flow, Outlet)	12.150 hours

---

Elevation (Water Surface, Peak)	69.16 ft
Volume (Peak)	0.051 ac-ft

---

#### Mass Balance (ac-ft)

---

Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	0.101 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.055 ac-ft
Volume (Retained)	0.046 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.0 %

---

Subsection: Level Pool Pond Routing Summary  
Label: BG 3 (IN)  
Scenario: Ocean - Synthetic Curve, 10yrs

Return Event: 10 years  
Storm Event: 10yr (5.33in)

---

#### Infiltration

---

Infiltration Method (Computed)	No Infiltration
-----------------------------------	-----------------

---

#### Initial Conditions

---

Elevation (Water Surface, Initial)	68.10 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

---

#### Inflow/Outflow Hydrograph Summary

---

Flow (Peak In)	2.11 ft³/s	Time to Peak (Flow, In)	12.100 hours
Flow (Peak Outlet)	1.79 ft³/s	Time to Peak (Flow, Outlet)	12.100 hours

---

Elevation (Water Surface, Peak)	69.21 ft
Volume (Peak)	0.056 ac-ft

---

#### Mass Balance (ac-ft)

---

Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	0.165 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.120 ac-ft
Volume (Retained)	0.046 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.0 %

---

Subsection: Level Pool Pond Routing Summary  
Label: BG 3 (IN)  
Scenario: Ocean - Synthetic Curve, 100yrs

Return Event: 100 years  
Storm Event: 100yr (9.2in)

---

#### Infiltration

---

Infiltration Method (Computed)	No Infiltration
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---

#### Initial Conditions

---

Elevation (Water Surface, Initial)	68.10 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft <sup>3</sup> /s
Flow (Initial Infiltration)	0.00 ft <sup>3</sup> /s
Flow (Initial, Total)	0.00 ft <sup>3</sup> /s
Time Increment	0.050 hours

---

#### Inflow/Outflow Hydrograph Summary

---

Flow (Peak In)	3.79 ft <sup>3</sup> /s	Time to Peak (Flow, In)	12.100 hours
Flow (Peak Outlet)	3.37 ft <sup>3</sup> /s	Time to Peak (Flow, Outlet)	12.100 hours

---

Elevation (Water Surface, Peak)	69.27 ft
Volume (Peak)	0.061 ac-ft

---

#### Mass Balance (ac-ft)

---

Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	0.309 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.263 ac-ft
Volume (Retained)	0.046 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.0 %

---

Subsection: Level Pool Pond Routing Summary  
Label: BG 4 (IN)  
Scenario: Ocean - Time-Depth Curve, 1 yrs

Return Event: 1 years  
Storm Event: 2hr (1.25in)

---

#### Infiltration

---

Infiltration Method (Computed)	No Infiltration
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---

#### Initial Conditions

---

Elevation (Water Surface, Initial)	67.80 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

---

#### Inflow/Outflow Hydrograph Summary

---

Flow (Peak In)	1.10 ft³/s	Time to Peak (Flow, In)	1.050 hours
Flow (Peak Outlet)	0.00 ft³/s	Time to Peak (Flow, Outlet)	0.000 hours

---

Elevation (Water Surface, Peak)	68.61 ft
Volume (Peak)	0.032 ac-ft

---

#### Mass Balance (ac-ft)

---

Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	0.032 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.000 ac-ft
Volume (Retained)	0.032 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.1 %

---

Subsection: Level Pool Pond Routing Summary  
Label: BG 4 (IN)  
Scenario: Ocean - Synthetic Curve, 2 yrs

Return Event: 2 years  
Storm Event: 2yr (3.42in)

---

#### Infiltration

---

Infiltration Method (Computed)	No Infiltration
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---

#### Initial Conditions

---

Elevation (Water Surface, Initial)	67.80 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

---

#### Inflow/Outflow Hydrograph Summary

---

Flow (Peak In)	1.29 ft³/s	Time to Peak (Flow, In)	12.100 hours
Flow (Peak Outlet)	0.64 ft³/s	Time to Peak (Flow, Outlet)	12.150 hours

---

Elevation (Water Surface, Peak)	68.86 ft
Volume (Peak)	0.051 ac-ft

---

#### Mass Balance (ac-ft)

---

Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	0.098 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.052 ac-ft
Volume (Retained)	0.046 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.0 %

---

Subsection: Level Pool Pond Routing Summary  
Label: BG 4 (IN)  
Scenario: Ocean - Synthetic Curve, 10yrs

Return Event: 10 years  
Storm Event: 10yr (5.33in)

---

#### Infiltration

---

Infiltration Method (Computed)	No Infiltration
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---

#### Initial Conditions

---

Elevation (Water Surface, Initial)	67.80 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft³/s
Flow (Initial Infiltration)	0.00 ft³/s
Flow (Initial, Total)	0.00 ft³/s
Time Increment	0.050 hours

---

#### Inflow/Outflow Hydrograph Summary

---

Flow (Peak In)	2.02 ft³/s	Time to Peak (Flow, In)	12.100 hours
Flow (Peak Outlet)	1.60 ft³/s	Time to Peak (Flow, Outlet)	12.100 hours

---

Elevation (Water Surface, Peak)	68.92 ft
Volume (Peak)	0.057 ac-ft

---

#### Mass Balance (ac-ft)

---

Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	0.162 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.116 ac-ft
Volume (Retained)	0.046 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.0 %

---

Subsection: Level Pool Pond Routing Summary  
Label: BG 4 (IN)  
Scenario: Ocean - Synthetic Curve, 100yrs

Return Event: 100 years  
Storm Event: 100yr (9.2in)

---

#### Infiltration

---

Infiltration Method (Computed)	No Infiltration
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---

#### Initial Conditions

---

Elevation (Water Surface, Initial)	67.80 ft
Volume (Initial)	0.000 ac-ft
Flow (Initial Outlet)	0.00 ft <sup>3</sup> /s
Flow (Initial Infiltration)	0.00 ft <sup>3</sup> /s
Flow (Initial, Total)	0.00 ft <sup>3</sup> /s
Time Increment	0.050 hours

---

#### Inflow/Outflow Hydrograph Summary

---

Flow (Peak In)	3.68 ft <sup>3</sup> /s	Time to Peak (Flow, In)	12.100 hours
Flow (Peak Outlet)	2.99 ft <sup>3</sup> /s	Time to Peak (Flow, Outlet)	12.100 hours

---

Elevation (Water Surface, Peak)	68.99 ft
Volume (Peak)	0.064 ac-ft

---

#### Mass Balance (ac-ft)

---

Volume (Initial)	0.000 ac-ft
Volume (Total Inflow)	0.310 ac-ft
Volume (Total Infiltration)	0.000 ac-ft
Volume (Total Outlet Outflow)	0.264 ac-ft
Volume (Retained)	0.046 ac-ft
Volume (Unrouted)	0.000 ac-ft
Error (Mass Balance)	0.0 %

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