GARDEN ROUTE CITY

PTN'S. 7,8 12 & REM. 23 KRAAIBOSCH No.195

USE	AREAS	No. OF ERVEN / UNITS	NOTATION
RESIDENTIAL 1 (400 - 600m²)	20,10	335	
RESIDENTIAL 1 (500 - 700m²)	26,66	380	
RESIDENTIAL 1 (700 - 900m²)	14,50	161	
MEDIUM DENSITY RESIDENTIAL 40u/ha	7,48	299 UNITS	
FUTURE DEVELOPMENT	72,62	5807 UNITS	
EDUCATION			
MIXED LAND USE			
OPEN SPACE			
PRIVATE STREETS			
PUBLIC ROADS			
ACCESS CONTROL POINT			
MIXED USE NODE			
MUNICIPAL			
SLOPES STEEPER THAN 1 : 5			

0 50 100 250 200 250 300 350 400 450 500m

PHASE 1

USE	QUANTITY	NOTATION
RESIDENTIAL 1 (700 - 900m²)	152	
RESIDENTIAL 1 (500 - 700m²)	129	
MEDIUM DENSITY RESIDENTIAL 40u/ha	299	
PRIVATE OPEN SPACE	2	
PRIVATE STREET	2	
ACCESS CONTROL POINT	1	
PUBLIC ROADS		
TOTAL	585	NOTATION

PHASE 2

USE	QUANTITY	
RESIDENTIAL 1 (500 - 700m²)	256	
RESIDENTIAL 1 (400 - 600m²)	335	
EDUCATION	1	
MUNICIPAL	1	
PRIVATE OPEN SPACE	5	
ACCESS CONTROL POINT	1	
PUBLIC ROADS		
TOTAL	599	

PHASE 3

USE	QUANTITY	NOTATION
MIXED LAND	1	
PRIVATE OPEN SPACE	2	
PUBLIC ROADS		
TOTAL	3	

PHASE 4

USE	QUANTITY	NOTATION
FUTURE DEVELOPMENT	5807	
PUBLIC ROADS		
TOTAL	5807	

DATE	AMENDMENTS

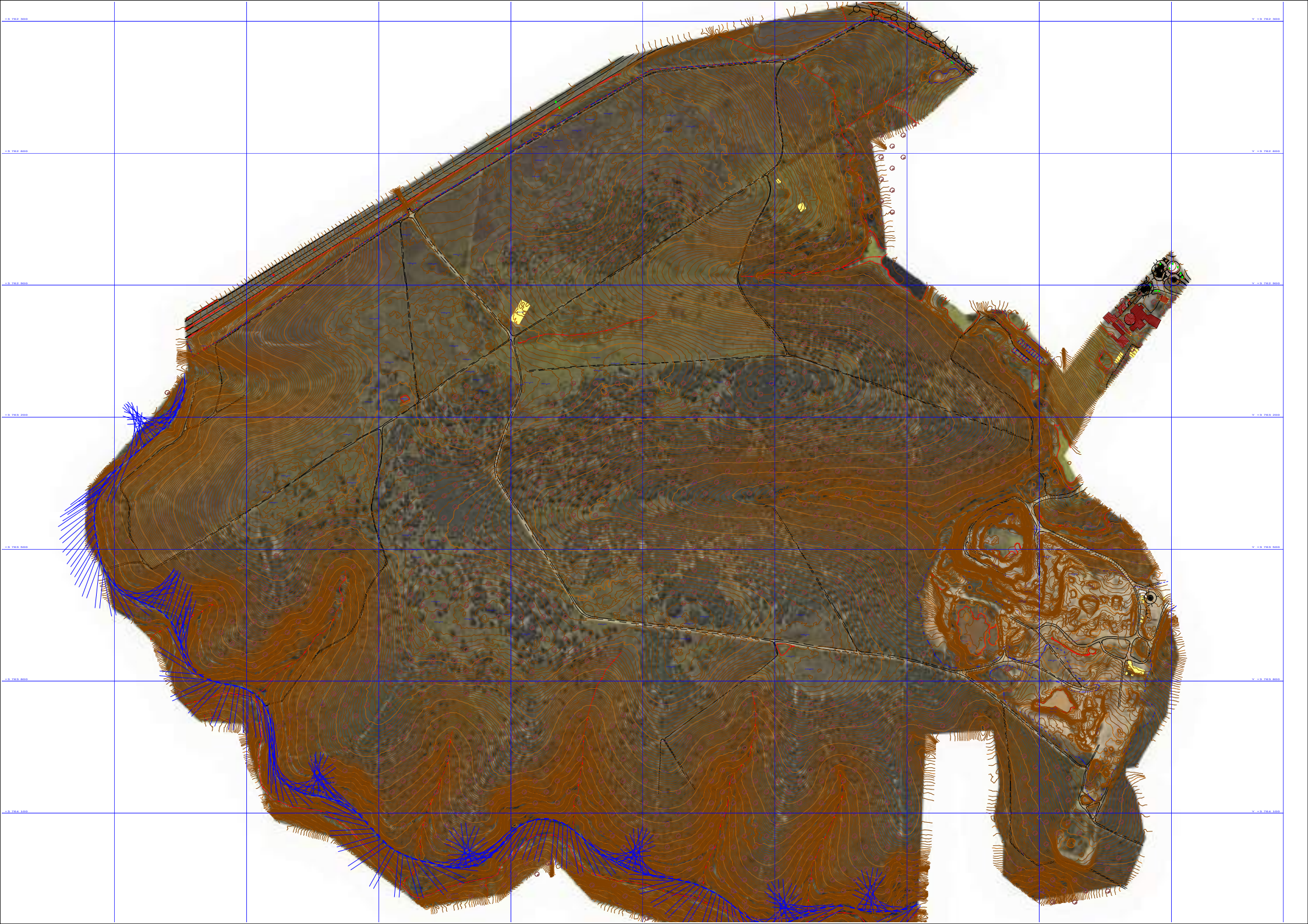
Town Planning (PTY)Ltd
AETERNO

P.O. Box 1435
Faerie Glen 0043
Tel: (012) 348 5081

Date: 27 OCTOBER 2025
Scale: 1 : 5000 (A1)
Plan No:

ANNEXURE D: TOPOGRAPHICAL SURVEY

ANNEXURE D: TOPOGRAPHICAL SURVEY

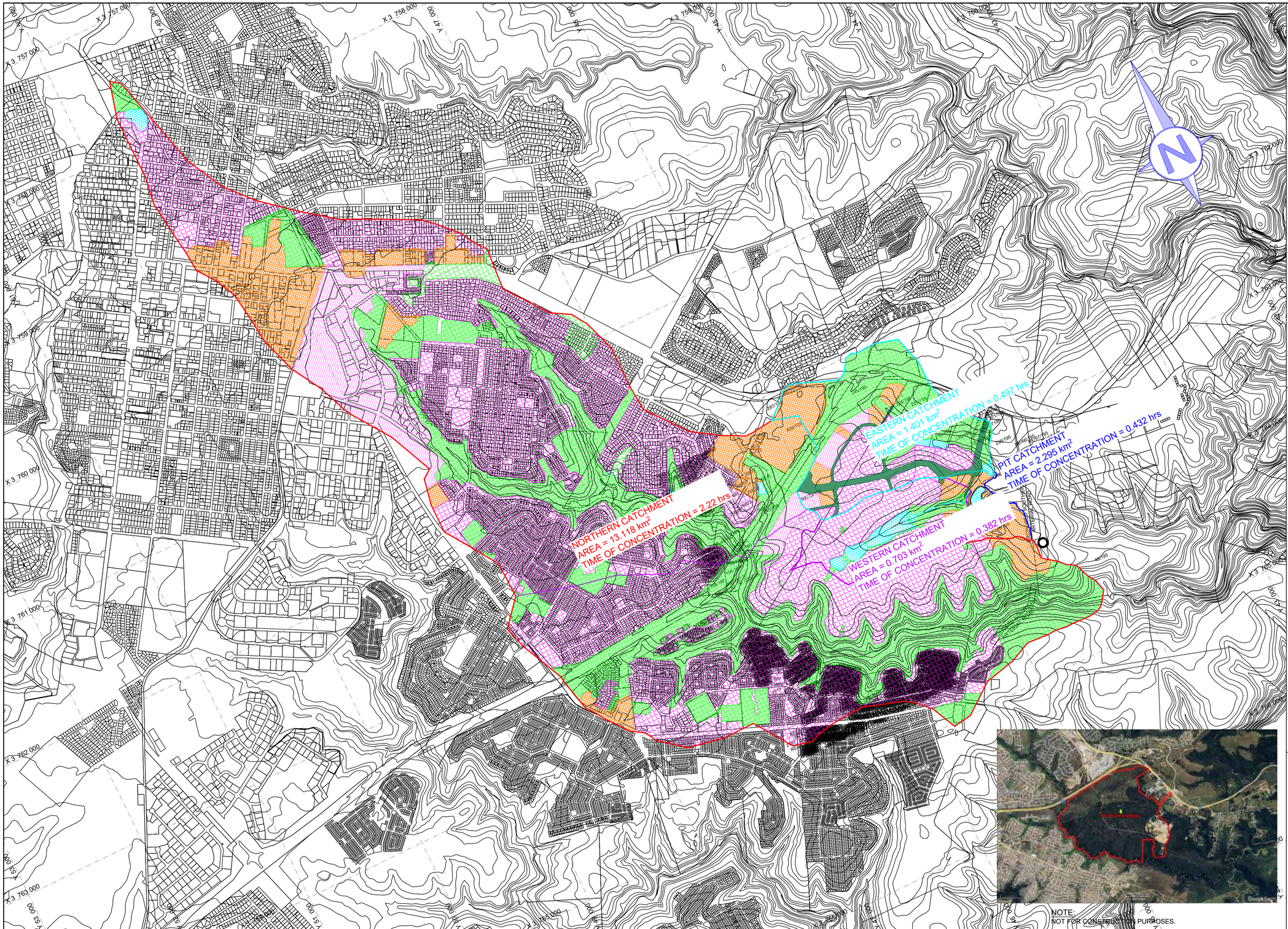


ANNEXURE E: FLOODLINE

ANNEXURE E1: FLOODLINE CATCHMENT PLAN

ANNEXURE E2: CERTIFIED FLOODLINE PLAN

ANNEXURE E1: FLOODLINE CATCHMENT PLAN



GENERAL NOTES:

1. MINIMUM REQUIREMENTS ARE INDICATED ON THE DRAWING. THE CONSULTANT / DESIGNER IS RESPONSIBLE AND LIABLE FOR FURTHER DETAILS AND TO ENSURE EFFECTIVE OPERATION AND MAINTENANCE OF THE INSTALLATION.
2. THE SIGNATURE OR INITIALS ON THIS DRAWING OF COE OFFICIAL DOES NOT REMOVE ANY RESPONSIBILITY WHATSOEVER FROM THE CONSULTANT / DESIGNER.
3. THE CONSULTANT / DESIGNER REMAINS RESPONSIBLE TO ENSURE THAT ALL THE GUIDELINES, STANDARD DRAWINGS, STANDARDS AND SPECIFICATIONS OF THE WATER AND SANITATION DEPARTMENT HAVE BEEN MET AND ARE COMPLIED WITH IN THE DESIGN.
4. ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SANS STANDARD.
5. FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.
6. ALL DIMENSIONS TO BE CHECKED AND APPROVED ON SITE.
7. ALL DIMENSIONS ARE IN m (UNLESS OTHERWISE SPECIFIED).
8. DO NOT SCALE FROM THESE DRAWINGS.
9. CLASS OF CONCRETE UNLESS OTHERWISE SPECIFIED ON DRAWING DETAILS:

REINFORCED	CLASS 30/19
THRUST BLOCKS	CLASS 20/19
BLINDING	CLASS 15/19
FLOOR SCREED	SAND : CEMENT = 3 : 1

10. PRE-CAST CONCRETE RINGS AND COVER SLABS TO COMPLY WITH SANS 1294.
11. JOINTS BETWEEN CONCRETE RINGS AND BETWEEN COVER SLABS AND BETWEEN RINGS AND FLOORS TO BE SEALED WITH BITUMEN SEALANT(APPROVED BY THE DESIGNER).
12. SEWER INSTALLED WITHIN ROAD RESERVE BOUNDARIES MUST BE POSITIONED IN ACCORDANCE WITH THE APPLICABLE SERVICES LAYOUT DRAWINGS.
13. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, THIRD EDITION 2005 AND THE STANDARD COE DETAIL DRAWINGS.
14. THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH THE ARCHITECTS DRAWINGS (IF APPLICABLE)
15. THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, SERIES 4.

SPECIFIC NOTES:

1. ALL PIPES TO BE CONCRETE SPIGOT AND SOCKET WITH ROLLING RUBBERRINGS OR SLIDING RUBBER JOINTS OF PIPE CLASS SPECIFIED IN ACCORDANCE WITH SANS 677 LAYED IN CLASS B BEDDING UNDER ROAD SURFACES OR CLASS C BEDDING ELSEWHERE.
2. DO NOT SCALE FROM THESE DRAWINGS.
3. ALL DIMENSIONS MUST BE CHECKED AND APPROVED ON SITE.
4. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR MUNICCIPAL CIVIL ENGINEERING WORKS,THIRD EDITION 2005 AND STANDARD COE DETAIL DRAWINGS.
5. THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH THE ARCHITECTS DRAWINGS.(IF APPLICABLE)
6. THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH THE STANDARD SPECIFICATION FOR MUNICIPAL CIVIL ENGINEERING WORKS.
7. THE SIGNATURE OR INITIALS ON THIS DRAWING OF ANY MANAGER OF THE TRANSPORT DEPARTMENT, IN NO WAY REMOVES ANY RESPONSIBILITY WHATSOEVER FROM THE CONSULTANT.
8. THE CONSULTANT REMAINS RESPONSIBLE TO ENSURE THAT ALL THE GUIDELINES, STANDARDS DRAWINGS, STANDARDS AND SPECIFICATIONS OF THE TRANSPORT DEPARTMENT HAVE BEEN MET AND ARE COMPLIED WITH.
9. FINAL POSITION OF SERVICE TO BE DETERMINED ON SITE
10. UNLESS OTHERWISE SHOWN ALL CONCRETE SHALL BE CLASS 25MPa/19mm.
11. CONCRETE FOR BENCHING SHALL BE CLASS 15MPa/38mm OR CLASS 15MPa/19mm.
12. UNLESS OTHERWISE SHOWN OR SPECIFIED ALL EXPOSED CONCRETE SURFACES SHALL HAVE A WOOD FLOAT SURFACE FINISH AND SHALL BE COVERED WITH AN APPROVED CURING COMPOUND WITHIN 24 HOURS OF CASTING
13. ALL CONCRETE EDGES SHALL BE CHAMFERRED 20mm.
14. EXISTING SERVICES THAT ARE INDICATED TO BE "REMOVED" AND ARE SITUATED UNDER FLOOR SLABS SHALL BE DISCONNECTED AND ABANDONED

LEGEND:

- EXISTING ROAD
- PROPOSED ROAD
- EXISTING STORMWATER
- PROPOSED STORMWATER
- NORTHERN CATCHMENT AREA = 1311.8 HA
- WESTERN CATCHMENT AREA = 70.3 HA
- EASTERN CATCHMENT AREA = 140.1 HA
- PIT CATCHMENT AREA = 229.50 HA
- RESIDENTIAL AREA = 781.779 HA
- OPEN SPACE AREA = 456.945 HA
- LAKES AND PANS AREA = 26.861 HA
- BUSINESS AREA = 156.797 HA
- LIGHT INDUSTRY AREA = 99.405 HA
- STREETS AREA = 16.664 HA

NOTE:
NOT FOR CONSTRUCTION PURPOSES.

GEORGE
THE CITY FOR ALL REASONS

ROADS AND STORMWATER
DEPARTMENT

AMENDMENTS

REV	DATE	BY	DESCRIPTION

ROADS AND STORMWATER
APPROVED ON BEHALF OF:

OPERATIONS DIVISION
NAME:..... PROF REG No:.....
SIGNATURE:..... DATE:.....

PROJECTS DIVISION
NAME:..... PROF REG No:.....
SIGNATURE:..... DATE:.....

PLANNING DIVISION
NAME:..... PROF REG No:.....
SIGNATURE:..... DATE:.....

CONSULTING ENGINEERS:

JT EVOLVE
ACTA NON VERBA (PTY) LTD.

DESIGNED
NAME: W JACOBS

DRAWN
NAME: LL MALEKA

APPROVED
NAME: W STOKER DATE:.....
PROF REG No: 202101798
SIGNATURE:.....

CONTRACT No.

PROJECT No.
458

SHEET No.
1 OF 1

PAPER SIZE
A1

SCALE
1:15 000

PROJECT TITLE
GARDEN ROUTE CITY
(PTNs 7, 8, 12 AND RE/23 KRAAIBOSCH NO.195)

DRAWING TITLE
STORMWATER CATCHMENT PLAN

DRAWING NUMBER
458_04A_CP1

REVISION
P0

ANNEXURE E2: CERTIFIED FLOODLINE PLAN

FLOODWATER - It is certified that the project area is affected by floodwater in terms of the specifications laid down by Section 144 of the National Wateract,1998 (act 36 of 1998)

Name: W Stoker Pr.Eng.

Reg No: 202101798

Date: 2026/07/30

Sign: _____

GENERAL NOTES:

1. MINIMUM REQUIREMENTS ARE INDICATED ON THE DRAWING. THE CONSULTANT / DESIGNER IS RESPONSIBLE AND LIABLE FOR FURTHER DETAILS AND TO ENSURE EFFECTIVE OPERATION AND MAINTENANCE OF THE INSTALLATION.
2. THE SIGNATURE OR INITIALS ON THIS DRAWING OF COE OFFICIAL DOES NOT REMOVE ANY RESPONSIBILITY WHATSOEVER FROM THE CONSULTANT / DESIGNER.
3. THE CONSULTANT / DESIGNER REMAINS RESPONSIBLE TO ENSURE THAT ALL THE GUIDELINES, STANDARD DRAWINGS, STANDARDS AND SPECIFICATIONS OF THE WATER AND SANITATION DEPARTMENT HAVE BEEN MET AND ARE COMPLIED WITH IN THE DESIGN.
4. ALL MATERIAL AND WORKMANSHIP MUST COMPLY WITH THE REQUIREMENTS OF THE LATEST RELEVANT SANS STANDARD.
5. FINAL POSITION OF SERVICES TO BE DETERMINED ON SITE.
6. ALL DIMENSIONS TO BE CHECKED AND APPROVED ON SITE.
7. ALL DIMENSIONS ARE IN m (UNLESS OTHERWISE SPECIFIED).
8. DO NOT SCALE FROM THESE DRAWINGS.
9. CLASS OF CONCRETE UNLESS OTHERWISE SPECIFIED ON DRAWING DETAILS:

REINFORCED	CLASS 30/19
THRUST BLOCKS	CLASS 20/19
BLINDING	CLASS 15/19
FLOOR SCREED	SAND : CEMENT = 3 : 1

10. PRE-CAST CONCRETE RINGS AND COVER SLABS TO COMPLY WITH SANS 1294.
11. JOINTS BETWEEN CONCRETE RINGS AND BETWEEN COVER SLABS AND BETWEEN RINGS AND FLOORS TO BE SEALED WITH BITUMEN SEALANT(APPROVED BY THE DESIGNER).
12. SEWER INSTALLED WITHIN ROAD RESERVE BOUNDARIES MUST BE POSITIONED IN ACCORDANCE WITH THE APPLICABLE SERVICES LAYOUT DRAWINGS.
13. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, THIRD EDITION 2005 AND THE STANDARD COE DETAIL DRAWINGS.
14. THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH THE ARCHITECTS DRAWINGS (IF APPLICABLE)
15. THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH THE STANDARD SPECIFICATIONS FOR MUNICIPAL CIVIL ENGINEERING WORKS, SERIES 4.

SPECIFIC NOTES:

1. ALL PIPES TO BE CONCRETE SPIGOT AND SOCKET WITH ROLLING RUBBERRINGS OR SLIDING RUBBER JOINTS OF PIPE CLASS SPECIFIED IN ACCORDANCE WITH SANS 677 LAYED IN CLASS B BEDDING UNDER ROAD SURFACES OR CLASS C BEDDING ELSEWHERE.
2. DO NOT SCALE FROM THESE DRAWINGS.
3. ALL DIMENSIONS MUST BE CHECKED AND APPROVED ON SITE.
4. ALL CONSTRUCTION TO BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR MUNICCIPAL CIVIL ENGINEERING WORKS,THIRD EDITION 2005 AND STANDARD COE DETAIL DRAWINGS.
5. THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH THE ARCHITECTS DRAWINGS.(IF APPLICABLE)
6. THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH THE STANDARD SPECIFICATION FOR MUNICIPAL CIVIL ENGINEERING WORKS.
7. THE SIGNATURE OR INITIALS ON THIS DRAWING OF ANY MANAGER OF THE TRANSPORT DEPARTMENT, IN NO WAY REMOVES ANY RESPONSIBILITY WHATSOEVER FROM THE CONSULTANT.
8. THE CONSULTANT REMAINS RESPONSIBLE TO ENSURE THAT ALL THE GUIDELINES, STANDARDS DRAWINGS, STANDARDS AND SPECIFICATIONS OF THE TRANSPORT DEPARTMENT HAVE BEEN MET AND ARE COMPLIED WITH.
9. FINAL POSITION OF SERVICE TO BE DETERMINED ON SITE
10. UNLESS OTHERWISE SHOWN ALL CONCRETE SHALL BE CLASS 25MPa/19mm.
11. CONCRETE FOR BENCHING SHALL BE CLASS 15MPa/38mm OR CLASS 15MPa/19mm.
12. UNLESS OTHERWISE SHOWN OR SPECIFIED ALL EXPOSED CONCRETE SURFACES SHALL HAVE A WOOD FLOAT SURFACE FINISH AND SHALL BE COVERED WITH AN APPROVED CURING COMPOUND WITHIN 24 HOURS OF CASTING
13. ALL CONCRETE EDGES SHALL BE CHAMFERRED 20mm.
14. EXISTING SERVICES THAT ARE INDICATED TO BE "REMOVED" AND ARE SITUATED UNDER FLOOR SLABS SHALL BE DISCONNECTED AND ABANDONED

LEGEND:

- EXISTING STORMWATER
- PROPOSED STORMWATER
- 100 YEAR FLOODLINE
- 50 YEAR FLOODLINE



NOTE:
NOT FOR CONSTRUCTION PURPOSES.

GEORGE
THE CITY FOR ALL REASONS

ROADS AND STORMWATER
DEPARTMENT

AMENDMENTS

REV	DATE	BY	DESCRIPTION

ROADS AND STORMWATER
APPROVED ON BEHALF OF:

OPERATIONS DIVISION
NAME:..... PROF REG No:.....
SIGNATURE:..... DATE:.....

PROJECTS DIVISION
NAME:..... PROF REG No:.....
SIGNATURE:..... DATE:.....

PLANNING DIVISION
NAME:..... PROF REG No:.....
SIGNATURE:..... DATE:.....

CONSULTING ENGINEERS:

JT EVOLVE
ACTA NON VERBA (PTY) LTD.

DESIGNED
NAME: W STOKER

DRAWN
NAME: LLM

APPROVED
NAME: W STOKER DATE:.....
PROF REG No: 202101798
SIGNATURE: .....

CONTRACT No.

PROJECT No.
458

SHEET No.
1 OF 1

PAPER SIZE
A1

SCALE
1:5 000

PROJECT TITLE
GARDEN ROUTE CITY
(PTNS 7, 8, 12 & RE/23 KRAAIBOSCH NO. 195)

DRAWING TITLE
STORMWATER
FLOODLINE
PLAN

DRAWING NUMBER
458_04A_FP1

P0
REVISION

ANNEXURE F: IMPERVIOUS & PERVIOUS AREA CALCULATIONS

ANNEXURE F1: IMPERVIOUS AND PERVIOUS AREAS CALCULATIONS

Garden Route City	imperv	50%	50%	85%	60%	0%
	0 depression	0%	80%	75%	90%	0%
CATCHMENT		ROAD AREA (m²)	COMMUNITY FACILITY AREAA (m²)	MEDIUM DENSITY RESIDENTIAL AREA (m²)	RESIDENTIAL 1 AREA (m²)	PRIVATE OPEN SPACE AREA (m²)
C_POST1		62352.648	0	94880.014	93089.689	101041.787
C_POST2		58851.26	0	0	120355.142	73439.103
C_POST3		64365.06	0	0	239948.131	57725.217
C_POST4		28745.016	46643.224	0	166165.912	71324.925
C_POST5		0	0	141802.645	0	83208.027
C_POST6		44447.511	0	131558.153	0	33466.964
C_POST7		0	0	93877.776	0	25326.993
C_POST8		15272.265	0	114072.265	43174.015	48396.462
C_POST9		7466.323	0	106038.817	24723.9	39350.786
C_POST10		7356.329	0	127389.212	37288.433	30860.023
C_POST11		7622.008	0	99737.677	28001.438	35438.856
C_POST12		3393.431	22604.873	106225.076	0	37980.855
C_POST13		0	0	80038.805	0	8655.754
CPOST (all)		299871.851	69248.097	1095620.44	752746.66	646215.752

C_PRE1		0	0	0	0	0
C_PRE2		0	0	0	0	0
C_PRE3		0	0	0	0	0
C_PRE4		0	0	0	0	0
C_PRE5		0	0	0	0	0
C_PRE6		0	0	0	0	0
C_PRE7		0	0	0	0	0
C_PRE8		0	0	0	0	0
C_PRE9		0	0	0	0	0
C_PRE10		0	0	0	0	0
C_PRE11		0	0	0	0	0
C_PRE12		0	0	0	0	0
C_PRE13		0	0	0	0	0
CPRE (all)		0	0	0	0	0

0%	85%	10%	90%	80%			
0%	65%	50%	75%	75%			
MUNICIPAL AREA (m^2)	BUSINESS AREA (m^2)	AGRICULTURAL AREA (m^2)	HOSPITAL AREA (m^2)	LIGHT INDUSTRY AREA (m^2)	TOTAL AREA (m^2)	TOTAL AREA per model (m^2)	CHECK
0	0	0	0	0	351364.138	351364.138	0
0	58422.662	0	0	0	311068.167	311068.167	0
12984.073	3373.602	0	0	0	378396.083	378396.083	0
0	0	0	0	0	312879.077	312879.077	0
0	0	0	0	0	225010.672	225010.672	0
0	43852.718	0	0	0	253325.346	253325.346	0
0	0	0	0	0	119204.769	119204.769	0
0	0	0	0	0	220915.007	220915.007	0
0	0	0	0	0	177579.826	177579.826	0
0	0	0	0	0	202893.997	202893.997	0
0	0	0	0	0	170799.979	170799.979	0
0	0	0	0	0	170204.235	170204.235	0
0	0	0	0	0	88694.559	88694.559	0
12984.073	105648.982	0	0	0	2982335.855	2982335.855	0
					2982335.855	**2982335.855**	0
0	0	351364.138	0	0	351364.138	351364.138	0
0	0	311068.167	0	0	311068.167	311068.167	0
0	0	378396.083	0	0	378396.083	378396.083	0
0	0	312879.077	0	0	312879.077	312879.077	0
0	0	225010.672	0	0	225010.672	225010.672	0
0	0	253325.346	0	0	253325.346	253325.346	0
0	0	119204.769	0	0	119204.769	119204.769	0
0	0	220915.007	0	0	220915.007	220915.007	0
0	0	177579.826	0	0	177579.826	177579.826	0
0	0	202893.997	0	0	202893.997	202893.997	0
0	0	170799.979	0	0	170799.979	170799.979	0
0	0	170204.235	0	0	170204.235	170204.235	0
0	0	88694.559	0	0	88694.559	88694.559	0
0	0	2982335.855	0	0	2982335.855	2982335.855	0

A imper	%	A 0 depresion storage	% roof coverage	% parks/lawns	% industry	% City/res	% Streets	check
167678.1	47.7	110754.4	66.1	28.76%	0.00%	53.50%	17.75%	OK
151298.0	48.6	97270.3	64.3	23.61%	0.00%	57.47%	18.92%	OK
179019.0	47.3	131435.9	73.4	18.69%	0.00%	64.30%	17.01%	OK
137393.7	43.9	108386.9	78.9	22.80%	0.00%	68.02%	9.19%	OK
120532.2	53.6	90399.2	75.0	36.98%	0.00%	63.02%	0.00%	OK
171323.0	67.6	108096.9	63.1	13.21%	0.00%	69.24%	17.55%	OK
79796.1	66.9	59847.1	75.0	21.25%	0.00%	78.75%	0.00%	OK
130502.0	59.1	96035.0	73.6	21.91%	0.00%	71.18%	6.91%	OK
108700.5	61.2	80950.7	74.5	22.16%	0.00%	73.64%	4.20%	OK
134332.1	66.2	101346.4	75.4	15.21%	0.00%	81.16%	3.63%	OK
105388.9	61.7	78703.5	74.7	20.75%	0.00%	74.79%	4.46%	OK
103290.5	60.7	76760.4	74.3	22.31%	0.00%	75.69%	1.99%	OK
68033.0	76.7	51024.7	75.0	9.76%	0.00%	90.24%	0.00%	OK
1657287.0	55.6	1191011.5	71.9	22.10%	0.00%	67.84%	10.05%	OK
35136.4	10.0	17568.2	50.0	100.00%	0.00%	0.00%	0.00%	OK
31106.8	10.0	15553.4	50.0	100.00%	0.00%	0.00%	0.00%	OK
37839.6	10.0	18919.8	50.0	100.00%	0.00%	0.00%	0.00%	OK
31287.9	10.0	15644.0	50.0	100.00%	0.00%	0.00%	0.00%	OK
22501.1	10.0	11250.5	50.0	100.00%	0.00%	0.00%	0.00%	OK
25332.5	10.0	12666.3	50.0	100.00%	0.00%	0.00%	0.00%	OK
11920.5	10.0	5960.2	50.0	100.00%	0.00%	0.00%	0.00%	OK
22091.5	10.0	11045.8	50.0	100.00%	0.00%	0.00%	0.00%	OK
17758.0	10.0	8879.0	50.0	100.00%	0.00%	0.00%	0.00%	OK
20289.4	10.0	10144.7	50.0	100.00%	0.00%	0.00%	0.00%	OK
17080.0	10.0	8540.0	50.0	100.00%	0.00%	0.00%	0.00%	OK
17020.4	10.0	8510.2	50.0	100.00%	0.00%	0.00%	0.00%	OK
8869.5	10.0	4434.7	50.0	100.00%	0.00%	0.00%	0.00%	OK
298233.6	10.0	149116.8	50.0	100.00%	0.00%	0.00%	0.00%	OK

ANNEXURE G: RUNOFF DETERMINATION

ANNEXURE G1: RUNOFF DETERMINATION CALCULATIONS 1:10-YEAR

ANNEXURE G2: RUNOFF DETERMINATION CALCULATIONS 1:50-YEAR

ANNEXURE G3: RUNOFF DETERMINATION CALCULATIONS 1:100-YEAR

ANNEXURE G1: RUNOFF DETERMINATION CALCULATIONS 1:10-YEAR

```
EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)
--------------------------------------------------------------


****************
Analysis Options
****************
Flow Units ............... CMS
Process Models:
  Rainfall/Runoff ........ YES
  RDII ................... NO
  Snowmelt ............... NO
  Groundwater ............ NO
  Flow Routing ........... YES
  Ponding Allowed ........ NO
  Water Quality .......... NO
Infiltration Method ...... GREEN_AMPT
Flow Routing Method ...... STEADY
Starting Date ............ 01/01/2010 00:00:00
Ending Date .............. 01/01/2010 23:55:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 5.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     hectare-m            mm
**************************     ---------       -------
Total Precipitation ......        20.707        34.716
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........         8.400        14.084
Surface Runoff ...........        12.156        20.379
Final Storage ............         0.189         0.317
Continuity Error (%) .....        -0.184


**************************        Volume        Volume
Flow Routing Continuity        hectare-m      10^6 ltr
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
```

Wet Weather Inflow	12.156	121.557
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	12.154	121.541
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.001	0.006
Continuity Error (%)	0.008	

****
Highest Flow Instability Indexes
****
All links are stable.

****
Routing Time Step Summary
****

Minimum Time Step	:	5.00 sec
Average Time Step	:	5.00 sec
Maximum Time Step	:	5.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	1.00
% of Steps Not Converging	:	0.00

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip mm	Total Runon mm	Total Evap mm	Total Infil mm	Imperv Runoff mm	Perv Runoff mm	Total Runoff mm	Total Runoff 10^6 ltr	Peak Runoff CMS	Runoff Coeff
C_POST1	24.15	0.00	0.00	9.81	11.07	2.83	13.90	4.88	1.66	0.576
C_POST2	24.15	0.00	0.00	9.40	11.26	3.02	14.28	4.44	1.57	0.591
C_POST3	24.15	0.00	0.00	10.44	11.05	2.30	13.35	5.05	1.50	0.553
C_POST4	24.15	0.00	0.00	10.51	10.36	3.05	13.41	4.20	1.46	0.555

C_POST5	24.15	0.00	0.00	6.55	12.68	4.68	17.36	3.91	1.92	0.719
C_POST6	24.15	0.00	0.00	4.79	15.69	3.06	18.75	4.75	2.16	0.776
C_POST7	24.15	0.00	0.00	4.47	15.81	3.56	19.36	2.31	1.18	0.802
C_POST8	24.15	0.00	0.00	6.71	13.88	3.18	17.05	3.77	1.52	0.706
C_POST9	24.15	0.00	0.00	5.83	14.42	3.56	17.98	3.19	1.46	0.745
C_POST10	24.15	0.00	0.00	4.90	15.62	3.28	18.90	3.84	1.80	0.783
C_POST11	24.15	0.00	0.00	5.63	14.55	3.64	18.19	3.11	1.45	0.753
C_POST12	24.15	0.00	0.00	6.04	14.29	3.47	17.76	3.02	1.34	0.735
C_POST13	24.15	0.00	0.00	3.09	18.09	2.56	20.65	1.83	0.91	0.855
C_PRE1	46.20	0.00	0.00	23.04	4.48	18.54	23.02	8.09	0.75	0.498
C_PRE2	46.20	0.00	0.00	22.68	4.48	18.91	23.39	7.28	0.69	0.506
C_PRE3	46.20	0.00	0.00	24.55	4.48	17.03	21.51	8.14	0.68	0.466
C_PRE4	46.20	0.00	0.00	23.78	4.48	17.81	22.28	6.97	0.61	0.482
C_PRE5	46.20	0.00	0.00	16.62	4.48	24.98	29.47	6.63	1.05	0.638
C_PRE6	44.25	0.00	0.00	18.85	4.28	20.99	25.27	6.40	0.86	0.571
C_PRE7	44.25	0.00	0.00	16.53	4.29	23.32	27.61	3.29	0.55	0.624
C_PRE8	44.25	0.00	0.00	20.36	4.28	19.48	23.76	5.25	0.62	0.537
C_PRE9	44.25	0.00	0.00	18.13	4.29	21.71	25.99	4.62	0.66	0.587
C_PRE10	44.25	0.00	0.00	17.61	4.29	22.24	26.52	5.38	0.81	0.599
C_PRE11	44.25	0.00	0.00	18.23	4.29	21.61	25.90	4.42	0.63	0.585
C_PRE12	44.25	0.00	0.00	18.94	4.28	20.90	25.19	4.29	0.57	0.569
C_PRE13	44.25	0.00	0.00	15.88	4.29	23.98	28.26	2.51	0.44	0.639

****
Node Depth Summary
****

Node	Type	Average Depth Meters	Maximum Depth Meters	Maximum HGL Meters	Time of Max Occurrence days	hr:min	Reported Max Depth Meters
CH12_PRE	JUNCTION	0.03	0.20	130.81	0	01:50	0.20
CH1_1	JUNCTION	0.00	0.00	192.52	0	00:00	0.00
CH1_2	JUNCTION	0.00	0.00	189.28	0	00:00	0.00
CH1_3	JUNCTION	0.00	0.00	186.99	0	00:00	0.00
CH1_4	JUNCTION	0.00	0.00	185.99	0	00:00	0.00
CH1_5	JUNCTION	0.00	0.00	182.42	0	00:00	0.00
CH1_6	JUNCTION	0.00	0.00	177.55	0	00:00	0.00
CH1_7	JUNCTION	0.02	0.37	176.48	0	00:40	0.37
CH1_8	JUNCTION	0.02	0.37	176.18	0	00:40	0.37
CH1_9	JUNCTION	0.02	0.37	175.73	0	00:40	0.37

CH1_10	JUNCTION	0.01	0.19	169.40	0	00:40	0.19
CH1_11	JUNCTION	0.01	0.21	168.31	0	00:40	0.21
CH1_12	JUNCTION	0.02	0.23	167.38	0	00:40	0.23
CH1_13	JUNCTION	0.02	0.25	166.42	0	00:40	0.25
CH1_14	JUNCTION	0.02	0.37	165.70	0	00:40	0.37
CH1_15	JUNCTION	0.02	0.37	165.51	0	00:40	0.37
CH1_16	JUNCTION	0.01	0.20	163.50	0	00:40	0.20
CH1_17	JUNCTION	0.02	0.37	162.29	0	00:40	0.37
CH1_18	JUNCTION	0.02	0.37	162.02	0	00:40	0.37
CH1_19	JUNCTION	0.02	0.37	161.75	0	00:40	0.37
CH1_20	JUNCTION	0.01	0.21	160.40	0	00:40	0.21
CH1_21	JUNCTION	0.01	0.21	158.52	0	00:40	0.21
CH1_22	JUNCTION	0.04	0.34	128.78	0	00:41	0.34
CH1_23	JUNCTION	0.05	0.42	128.23	0	00:41	0.42
CH1_24	JUNCTION	0.05	0.42	127.80	0	00:41	0.42
CH1_25	JUNCTION	0.05	0.42	127.53	0	00:41	0.42
CH1_26	JUNCTION	0.05	0.42	127.20	0	00:41	0.42
CH2_1	JUNCTION	0.00	0.00	182.61	0	00:00	0.00
CH2_2	JUNCTION	0.00	0.00	181.32	0	00:00	0.00
CH2_3	JUNCTION	0.00	0.00	180.70	0	00:00	0.00
CH2_4	JUNCTION	0.00	0.00	177.64	0	00:00	0.00
CH2_5	JUNCTION	0.00	0.00	176.79	0	00:00	0.00
CH2_6	JUNCTION	0.03	0.33	176.84	0	00:38	0.33
CH3_1	JUNCTION	0.00	0.00	197.04	0	00:00	0.00
CH3_2	JUNCTION	0.00	0.00	194.58	0	00:00	0.00
CH3_3	JUNCTION	0.00	0.00	189.61	0	00:00	0.00
CH3_4	JUNCTION	0.00	0.00	187.06	0	00:00	0.00
CH3_5	JUNCTION	0.00	0.00	182.43	0	00:00	0.00
CH3_6	JUNCTION	0.00	0.00	179.03	0	00:00	0.00
CH3_7	JUNCTION	0.00	0.00	172.87	0	00:00	0.00
CH3_8	JUNCTION	0.00	0.00	172.67	0	00:00	0.00
CH3_9	JUNCTION	0.00	0.00	172.17	0	00:00	0.00
CH3_10	JUNCTION	0.00	0.00	170.17	0	00:00	0.00
CH3_11	JUNCTION	0.00	0.00	170.09	0	00:00	0.00
CH3_12	JUNCTION	0.00	0.00	168.75	0	00:00	0.00
CH3_13	JUNCTION	0.00	0.00	167.76	0	00:00	0.00
CH3_14	JUNCTION	0.00	0.00	167.27	0	00:00	0.00
CH3_15	JUNCTION	0.00	0.00	166.71	0	00:00	0.00
CH3_16	JUNCTION	0.00	0.00	164.44	0	00:00	0.00
CH3_17	JUNCTION	0.00	0.00	164.03	0	00:00	0.00
CH3_18	JUNCTION	0.00	0.00	162.48	0	00:00	0.00
CH3_19	JUNCTION	0.00	0.00	162.35	0	00:00	0.00
CH3_20	JUNCTION	0.00	0.00	161.90	0	00:00	0.00

CH3_21	JUNCTION	0.00	0.00	160.59	0	00:00	0.00
CH3_22	JUNCTION	0.00	0.00	158.86	0	00:00	0.00
CH4_1	JUNCTION	0.03	0.33	178.73	0	00:46	0.33
CH4_2	JUNCTION	0.01	0.09	174.69	0	00:46	0.09
CH4_3	JUNCTION	0.01	0.10	170.75	0	00:46	0.10
CH4_4	JUNCTION	0.01	0.10	167.88	0	00:46	0.10
CH4_5	JUNCTION	0.01	0.09	164.56	0	00:46	0.09
CH4_6	JUNCTION	0.01	0.22	158.44	0	00:46	0.22
CH4_7	JUNCTION	0.01	0.22	157.96	0	00:46	0.22
CH4_8	JUNCTION	0.01	0.22	157.66	0	00:46	0.22
CH4_9	JUNCTION	0.01	0.22	157.22	0	00:46	0.22
CH4_10	JUNCTION	0.01	0.22	156.61	0	00:46	0.22
CH4_11	JUNCTION	0.01	0.22	155.40	0	00:46	0.22
CH4_12	JUNCTION	0.01	0.22	154.94	0	00:46	0.22
CH4_13	JUNCTION	0.01	0.22	154.09	0	00:46	0.22
CH4_14	JUNCTION	0.01	0.22	153.72	0	00:46	0.22
CH4_15	JUNCTION	0.01	0.16	152.48	0	00:46	0.16
CH4_16	JUNCTION	0.02	0.25	151.90	0	00:47	0.25
CH4_17	JUNCTION	0.02	0.25	151.63	0	00:47	0.25
CH4_18	JUNCTION	0.02	0.25	150.68	0	00:47	0.25
CH4_19	JUNCTION	0.02	0.25	150.47	0	00:47	0.25
CH4_20	JUNCTION	0.02	0.25	149.90	0	00:47	0.25
CH4_21	JUNCTION	0.02	0.25	149.55	0	00:47	0.25
CH4_22	JUNCTION	0.02	0.23	149.24	0	00:47	0.23
CH4_23	JUNCTION	0.02	0.20	147.51	0	00:47	0.20
CH4_24	JUNCTION	0.02	0.20	146.16	0	00:47	0.20
CH4_25	JUNCTION	0.02	0.19	143.09	0	00:47	0.19
CH4_26	JUNCTION	0.02	0.25	141.13	0	00:47	0.25
CH4_27	JUNCTION	0.02	0.25	140.19	0	00:47	0.25
CH4_28	JUNCTION	0.02	0.27	139.36	0	00:47	0.27
CH4_29	JUNCTION	0.04	0.27	138.84	0	00:47	0.27
CH4_30	JUNCTION	0.04	0.34	138.25	0	00:48	0.33
CH4_31	JUNCTION	0.04	0.34	138.00	0	00:48	0.33
CH4_32	JUNCTION	0.04	0.34	137.84	0	00:48	0.33
CH4_33	JUNCTION	0.04	0.34	137.55	0	00:48	0.33
CH4_34	JUNCTION	0.04	0.34	137.32	0	00:48	0.33
CH4_35	JUNCTION	0.04	0.34	136.95	0	00:48	0.33
CH4_36	JUNCTION	0.02	0.20	135.40	0	00:48	0.20
CH4_37	JUNCTION	0.03	0.25	131.90	0	00:48	0.25
CH4_38	JUNCTION	0.04	0.33	131.27	0	00:48	0.33
CH4_39	JUNCTION	0.04	0.33	131.07	0	00:48	0.33
CH4_40	JUNCTION	0.04	0.39	130.00	0	00:48	0.39
CH4_41	JUNCTION	0.04	0.39	129.70	0	00:48	0.39

CH4_42	JUNCTION	0.04	0.39	129.51	0	00:48	0.39
CH4_43	JUNCTION	0.04	0.39	129.22	0	00:48	0.39
CH4_44	JUNCTION	0.04	0.39	128.81	0	00:48	0.39
CH4_45	JUNCTION	0.04	0.45	128.16	0	00:47	0.45
CH4_46	JUNCTION	0.04	0.45	127.85	0	00:47	0.45
CH4_47	JUNCTION	0.04	0.45	127.63	0	00:47	0.45
CH4_48	JUNCTION	0.04	0.45	127.33	0	00:47	0.45
CH4_49	JUNCTION	0.04	0.45	127.21	0	00:47	0.45
CH4_50	JUNCTION	0.04	0.45	126.48	0	00:47	0.45
CH4_51	JUNCTION	0.04	0.40	123.73	0	00:48	0.40
CH4_52	JUNCTION	0.04	0.40	123.27	0	00:48	0.40
CH4_53	JUNCTION	0.03	0.32	122.32	0	00:48	0.32
CH4_54	JUNCTION	0.04	0.38	121.40	0	00:48	0.38
CH4_55	JUNCTION	0.04	0.41	120.94	0	00:48	0.41
CH4_56	JUNCTION	0.05	0.47	120.69	0	00:48	0.47
MH1	JUNCTION	0.03	0.33	184.06	0	00:38	0.33
MH2	JUNCTION	0.03	0.33	179.56	0	00:42	0.32
MH3	JUNCTION	0.03	0.27	170.59	0	00:35	0.27
MH3.1	JUNCTION	0.03	0.28	164.64	0	00:35	0.28
MH3.3	JUNCTION	0.03	0.33	181.04	0	00:46	0.33
MH4	JUNCTION	0.02	0.11	174.09	0	00:54	0.11
MH4.1	JUNCTION	0.02	0.13	162.96	0	00:54	0.13
CH15_1	JUNCTION	0.00	0.00	158.24	0	00:00	0.00
CH15_2	JUNCTION	0.00	0.00	155.91	0	00:00	0.00
CH15_3	JUNCTION	0.02	0.13	155.72	0	00:54	0.13
CH15_4	JUNCTION	0.01	0.09	155.57	0	00:54	0.09
MH5	JUNCTION	0.02	0.22	162.06	0	00:49	0.22
MH6	JUNCTION	0.03	0.09	161.06	0	01:11	0.09
MH7	JUNCTION	0.02	0.21	141.58	0	00:48	0.21
MH8	JUNCTION	0.02	0.22	135.34	0	00:45	0.22
MH9	JUNCTION	0.02	0.14	134.30	0	00:58	0.14
CH4_57	JUNCTION	0.05	0.47	120.48	0	00:48	0.47
CH4_58	JUNCTION	0.05	0.47	119.73	0	00:48	0.47
CH4_59	JUNCTION	0.05	0.47	119.49	0	00:48	0.47
CH4_60	JUNCTION	0.04	0.36	118.66	0	00:48	0.36
MH10	JUNCTION	0.02	0.10	138.14	0	00:56	0.10
MH3.2	JUNCTION	0.03	0.29	155.23	0	00:35	0.29
CH1_PRE	JUNCTION	0.03	0.15	176.44	0	02:05	0.15
CH2_PRE	JUNCTION	0.03	0.15	176.00	0	02:05	0.15
CH3_PRE	JUNCTION	0.02	0.10	171.88	0	02:05	0.10
CH4_PRE	JUNCTION	0.02	0.09	168.70	0	02:05	0.09
CH5_PRE	JUNCTION	0.02	0.10	167.00	0	02:05	0.10
CH6_PRE	JUNCTION	0.03	0.15	165.73	0	02:05	0.15

CH7_PRE	JUNCTION	0.03	0.15	165.54	0	02:05	0.15
CH8_PRE	JUNCTION	0.03	0.15	161.85	0	02:05	0.15
CH9_PRE	JUNCTION	0.03	0.15	161.60	0	02:05	0.15
CH10_PRE	JUNCTION	0.03	0.15	161.37	0	02:05	0.15
CH11_PRE	JUNCTION	0.01	0.08	158.53	0	02:05	0.08
CH13_PRE	JUNCTION	0.04	0.26	130.20	0	01:55	0.26
CH14_PRE	JUNCTION	0.04	0.26	129.67	0	01:55	0.26
CH15_PRE	JUNCTION	0.04	0.26	129.01	0	01:55	0.26
CH17_PRE	JUNCTION	0.01	0.04	173.50	0	01:45	0.04
CH18_PRE	JUNCTION	0.01	0.04	167.37	0	01:45	0.04
CH19_PRE	JUNCTION	0.01	0.06	162.46	0	01:45	0.06
CH20_PRE	JUNCTION	0.01	0.11	158.70	0	01:45	0.11
CH21_PRE	JUNCTION	0.01	0.11	157.38	0	01:45	0.11
CH22_PRE	JUNCTION	0.01	0.10	155.93	0	01:45	0.10
CH23_PRE	JUNCTION	0.01	0.11	153.79	0	01:45	0.11
CH24_PRE	JUNCTION	0.01	0.11	153.22	0	01:45	0.11
CH25_PRE	JUNCTION	0.01	0.10	151.31	0	01:40	0.10
CH26_PRE	JUNCTION	0.01	0.12	150.15	0	01:40	0.12
CH27_PRE	JUNCTION	0.02	0.15	149.01	0	01:40	0.15
CH28_PRE	JUNCTION	0.02	0.15	148.69	0	01:40	0.15
CH29_PRE	JUNCTION	0.02	0.13	143.96	0	01:45	0.13
CH30_PRE	JUNCTION	0.02	0.13	141.93	0	01:45	0.13
CH31_PRE	JUNCTION	0.02	0.19	139.09	0	01:45	0.19
CH32_PRE	JUNCTION	0.03	0.22	138.03	0	01:45	0.22
CH33_PRE	JUNCTION	0.03	0.22	137.06	0	01:45	0.22
CH34_PRE	JUNCTION	0.02	0.18	133.16	0	01:45	0.18
CH35_PRE	JUNCTION	0.03	0.25	129.79	0	01:45	0.25
CH36_PRE	JUNCTION	0.03	0.25	129.14	0	01:45	0.25
CH37_PRE	JUNCTION	0.03	0.28	127.29	0	01:45	0.28
CH38_PRE	JUNCTION	0.03	0.28	127.00	0	01:45	0.28
CH39_PRE	JUNCTION	0.03	0.28	126.25	0	01:45	0.28
CH40_PRE	JUNCTION	0.03	0.25	122.27	0	01:45	0.25
CH41_PRE	JUNCTION	0.03	0.25	120.96	0	01:45	0.25
CH42_PRE	JUNCTION	0.03	0.25	120.15	0	01:45	0.25
CH43_PRE	JUNCTION	0.03	0.25	119.16	0	01:45	0.25
MHOUTPRE0	OUTFALL	0.04	0.26	128.78	0	01:55	0.26
MHOUT0	OUTFALL	0.05	0.42	126.93	0	00:41	0.42
MHOUTPRE1	OUTFALL	0.02	0.20	117.69	0	01:45	0.20
MHOUT1	OUTFALL	0.04	0.36	118.05	0	00:48	0.36
POND1	STORAGE	0.03	0.91	187.85	0	00:38	0.91
POND2	STORAGE	0.04	0.91	183.14	0	00:42	0.90
MINING_PIT	STORAGE	0.47	3.19	132.34	0	01:16	3.19
POND3	STORAGE	0.04	0.89	185.22	0	00:46	0.89

POND4	STORAGE	0.09	0.93	184.81	0	00:54	0.93	
POND5	STORAGE	0.04	0.77	166.72	0	00:49	0.77	
POND6	STORAGE	0.16	0.90	171.06	0	01:11	0.90	
POND7	STORAGE	0.05	0.87	168.65	0	00:48	0.87	
POND8	STORAGE	0.04	0.94	147.27	0	00:45	0.94	
POND9	STORAGE	0.09	1.03	149.99	0	00:58	1.03	
POND10	STORAGE	0.10	0.98	171.30	0	00:56	0.98	

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CMS	Maximum Total Inflow CMS	Time of Max Occurrence days hr:min		Lateral Inflow Volume 10^6 ltr	Total Inflow Volume 10^6 ltr	Flow Balance Error Percent	
CH12_PRE	JUNCTION	2.296	2.296	0	01:50	21.7	21.7	0.000	
CH1_1	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH1_2	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH1_3	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH1_4	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH1_5	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH1_6	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH1_7	JUNCTION	0.000	2.849	0	00:40	0	9.32	0.000	
CH1_8	JUNCTION	0.000	2.849	0	00:40	0	9.32	0.000	
CH1_9	JUNCTION	0.000	2.849	0	00:40	0	9.32	0.000	
CH1_10	JUNCTION	0.000	2.849	0	00:40	0	9.32	0.000	
CH1_11	JUNCTION	0.000	2.849	0	00:40	0	9.32	0.000	
CH1_12	JUNCTION	0.000	2.849	0	00:40	0	9.32	0.000	
CH1_13	JUNCTION	0.000	2.849	0	00:40	0	9.32	0.000	
CH1_14	JUNCTION	0.000	2.849	0	00:40	0	9.32	0.000	
CH1_15	JUNCTION	0.000	2.849	0	00:40	0	9.32	0.000	
CH1_16	JUNCTION	0.000	2.849	0	00:40	0	9.32	0.000	
CH1_17	JUNCTION	0.000	2.849	0	00:40	0	9.32	0.000	
CH1_18	JUNCTION	0.000	2.849	0	00:40	0	9.32	0.000	
CH1_19	JUNCTION	0.000	2.849	0	00:40	0	9.32	0.000	
CH1_20	JUNCTION	0.000	2.849	0	00:40	0	9.32	0.000	
CH1_21	JUNCTION	0.000	2.849	0	00:40	0	9.32	0.000	
CH1_22	JUNCTION	0.000	3.639	0	00:41	0	22.5	0.000	
CH1_23	JUNCTION	0.000	3.639	0	00:41	0	22.5	0.000	

CH1_24	JUNCTION	0.000	3.639	0	00:41	0	22.5	0.000	
CH1_25	JUNCTION	0.000	3.639	0	00:41	0	22.5	0.000	
CH1_26	JUNCTION	0.000	3.639	0	00:41	0	22.5	0.000	
CH2_1	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH2_2	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH2_3	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH2_4	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH2_5	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH2_6	JUNCTION	0.000	2.849	0	00:40	0	9.32	0.000	
CH3_1	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_2	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_3	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_4	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_5	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_6	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_7	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_8	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_9	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_10	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_11	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_12	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_13	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_14	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_15	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_16	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_17	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_18	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_19	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_20	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_21	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_22	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH4_1	JUNCTION	0.000	1.219	0	00:46	0	4.75	0.000	
CH4_2	JUNCTION	0.000	1.219	0	00:46	0	4.75	0.000	
CH4_3	JUNCTION	0.000	1.219	0	00:46	0	4.75	0.000	
CH4_4	JUNCTION	0.000	1.219	0	00:46	0	4.75	0.000	
CH4_5	JUNCTION	0.000	1.219	0	00:46	0	4.75	0.000	
CH4_6	JUNCTION	0.000	1.219	0	00:46	0	4.75	0.000	
CH4_7	JUNCTION	0.000	1.219	0	00:46	0	4.75	0.000	
CH4_8	JUNCTION	0.000	1.219	0	00:46	0	4.75	0.000	
CH4_9	JUNCTION	0.000	1.219	0	00:46	0	4.75	0.000	
CH4_10	JUNCTION	0.000	1.219	0	00:46	0	4.75	0.000	
CH4_11	JUNCTION	0.000	1.219	0	00:46	0	4.75	0.000	
CH4_12	JUNCTION	0.000	1.219	0	00:46	0	4.75	0.000	

CH4_13	JUNCTION	0.000	1.219	0	00:46	0	4.75	0.000
CH4_14	JUNCTION	0.000	1.219	0	00:46	0	4.75	0.000
CH4_15	JUNCTION	0.000	1.219	0	00:46	0	4.75	0.000
CH4_16	JUNCTION	0.000	1.480	0	00:47	0	7.05	0.000
CH4_17	JUNCTION	0.000	1.480	0	00:47	0	7.05	0.000
CH4_18	JUNCTION	0.000	1.480	0	00:47	0	7.05	0.000
CH4_19	JUNCTION	0.000	1.480	0	00:47	0	7.05	0.000
CH4_20	JUNCTION	0.000	1.480	0	00:47	0	7.05	0.000
CH4_21	JUNCTION	0.000	1.480	0	00:47	0	7.05	0.000
CH4_22	JUNCTION	0.000	2.274	0	00:47	0	10.8	0.000
CH4_23	JUNCTION	0.000	2.274	0	00:47	0	10.8	0.000
CH4_24	JUNCTION	0.000	2.274	0	00:47	0	10.8	0.000
CH4_25	JUNCTION	0.000	2.274	0	00:47	0	10.8	0.000
CH4_26	JUNCTION	0.000	2.274	0	00:47	0	10.8	0.000
CH4_27	JUNCTION	0.000	2.274	0	00:47	0	10.8	0.000
CH4_28	JUNCTION	0.000	2.274	0	00:47	0	10.8	0.000
CH4_29	JUNCTION	0.000	2.459	0	00:48	0	14	0.000
CH4_30	JUNCTION	0.000	2.459	0	00:48	0	14	0.000
CH4_31	JUNCTION	0.000	2.459	0	00:48	0	14	0.000
CH4_32	JUNCTION	0.000	2.459	0	00:48	0	14	0.000
CH4_33	JUNCTION	0.000	2.459	0	00:48	0	14	0.000
CH4_34	JUNCTION	0.000	2.459	0	00:48	0	14	0.000
CH4_35	JUNCTION	0.000	2.459	0	00:48	0	14	0.000
CH4_36	JUNCTION	0.000	2.459	0	00:48	0	14	0.000
CH4_37	JUNCTION	0.000	2.459	0	00:48	0	14	0.000
CH4_38	JUNCTION	0.000	2.459	0	00:48	0	14	0.000
CH4_39	JUNCTION	0.000	3.252	0	00:48	0	17.8	0.000
CH4_40	JUNCTION	0.000	3.252	0	00:48	0	17.8	0.000
CH4_41	JUNCTION	0.000	3.252	0	00:48	0	17.8	0.000
CH4_42	JUNCTION	0.000	3.252	0	00:48	0	17.8	0.000
CH4_43	JUNCTION	0.000	3.252	0	00:48	0	17.8	0.000
CH4_44	JUNCTION	0.000	3.252	0	00:48	0	17.8	0.000
CH4_45	JUNCTION	0.000	4.046	0	00:47	0	21	0.000
CH4_46	JUNCTION	0.000	4.046	0	00:47	0	21	0.000
CH4_47	JUNCTION	0.000	4.046	0	00:47	0	21	0.000
CH4_48	JUNCTION	0.000	4.046	0	00:47	0	21	0.000
CH4_49	JUNCTION	0.000	4.046	0	00:47	0	21	0.000
CH4_50	JUNCTION	0.000	4.387	0	00:48	0	24	0.000
CH4_51	JUNCTION	0.000	4.387	0	00:48	0	24	0.000
CH4_52	JUNCTION	0.000	4.387	0	00:48	0	24	0.000
CH4_53	JUNCTION	0.000	4.387	0	00:48	0	24	0.000
CH4_54	JUNCTION	0.000	4.387	0	00:48	0	24	0.000
CH4_55	JUNCTION	0.000	4.387	0	00:48	0	24	0.000

CH4_56	JUNCTION	0.000	4.387	0	00:48	0	24	0.000	
MH1	JUNCTION	0.000	1.561	0	00:38	0	4.88	0.000	
MH2	JUNCTION	0.000	1.300	0	00:42	0	4.44	0.000	
MH3	JUNCTION	1.502	1.502	0	00:35	5.05	5.05	0.000	
MH3.1	JUNCTION	0.000	1.502	0	00:35	0	5.05	0.000	
MH3.3	JUNCTION	0.000	1.219	0	00:46	0	4.75	0.000	
MH4	JUNCTION	0.000	0.265	0	00:54	0	2.31	0.000	
MH4.1	JUNCTION	0.000	0.265	0	00:54	0	2.31	0.000	
CH15_1	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH15_2	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH15_3	JUNCTION	0.000	0.265	0	00:54	0	2.31	0.000	
CH15_4	JUNCTION	0.000	0.265	0	00:54	0	2.31	0.000	
MH5	JUNCTION	0.000	0.795	0	00:49	0	3.77	0.000	
MH6	JUNCTION	0.000	0.194	0	01:11	0	3.19	0.000	
MH7	JUNCTION	0.000	0.793	0	00:48	0	3.83	0.000	
MH8	JUNCTION	0.000	0.797	0	00:45	0	3.11	0.000	
MH9	JUNCTION	0.000	0.348	0	00:58	0	3.02	0.000	
CH4_57	JUNCTION	0.000	4.387	0	00:48	0	24	0.000	
CH4_58	JUNCTION	0.000	4.387	0	00:48	0	24	0.000	
CH4_59	JUNCTION	0.000	4.387	0	00:48	0	24	0.000	
CH4_60	JUNCTION	0.000	4.588	0	00:48	0	25.8	0.000	
MH10	JUNCTION	0.000	0.204	0	00:56	0	1.83	0.000	
MH3.2	JUNCTION	0.000	1.502	0	00:35	0	5.05	0.000	
CH1_PRE	JUNCTION	1.445	1.445	0	02:05	15.4	15.4	0.000	
CH2_PRE	JUNCTION	0.000	1.445	0	02:05	0	15.4	0.000	
CH3_PRE	JUNCTION	0.000	1.445	0	02:05	0	15.4	0.000	
CH4_PRE	JUNCTION	0.000	1.445	0	02:05	0	15.4	0.000	
CH5_PRE	JUNCTION	0.000	1.445	0	02:05	0	15.4	0.000	
CH6_PRE	JUNCTION	0.000	1.445	0	02:05	0	15.4	0.000	
CH7_PRE	JUNCTION	0.000	1.445	0	02:05	0	15.4	0.000	
CH8_PRE	JUNCTION	0.000	1.445	0	02:05	0	15.4	0.000	
CH9_PRE	JUNCTION	0.000	1.445	0	02:05	0	15.4	0.000	
CH10_PRE	JUNCTION	0.000	1.445	0	02:05	0	15.4	0.000	
CH11_PRE	JUNCTION	0.000	1.445	0	02:05	0	15.4	0.000	
CH13_PRE	JUNCTION	0.000	3.720	0	01:55	0	37.1	0.000	
CH14_PRE	JUNCTION	0.000	3.720	0	01:55	0	37.1	0.000	
CH15_PRE	JUNCTION	0.000	3.720	0	01:55	0	37.1	0.000	
CH17_PRE	JUNCTION	0.861	0.861	0	01:45	6.4	6.4	0.000	
CH18_PRE	JUNCTION	0.000	0.861	0	01:45	0	6.4	0.000	
CH19_PRE	JUNCTION	0.000	0.861	0	01:45	0	6.4	0.000	
CH20_PRE	JUNCTION	0.000	0.861	0	01:45	0	6.4	0.000	
CH21_PRE	JUNCTION	0.000	0.861	0	01:45	0	6.4	0.000	
CH22_PRE	JUNCTION	0.000	0.861	0	01:45	0	6.4	0.000	

CH23_PRE	JUNCTION	0.000	0.861	0	01:45	0	6.4	0.000
CH24_PRE	JUNCTION	0.548	1.399	0	01:40	3.29	9.69	0.000
CH25_PRE	JUNCTION	0.000	1.399	0	01:40	0	9.69	0.000
CH26_PRE	JUNCTION	0.000	1.399	0	01:40	0	9.69	0.000
CH27_PRE	JUNCTION	0.000	1.399	0	01:40	0	9.69	0.000
CH28_PRE	JUNCTION	0.618	2.012	0	01:45	5.25	14.9	0.000
CH29_PRE	JUNCTION	0.000	2.012	0	01:45	0	14.9	0.000
CH30_PRE	JUNCTION	0.000	2.012	0	01:45	0	14.9	0.000
CH31_PRE	JUNCTION	0.662	2.674	0	01:45	4.62	19.6	0.000
CH32_PRE	JUNCTION	0.000	2.674	0	01:45	0	19.6	0.000
CH33_PRE	JUNCTION	0.000	2.674	0	01:45	0	19.6	0.000
CH34_PRE	JUNCTION	0.811	3.483	0	01:45	5.38	24.9	0.000
CH35_PRE	JUNCTION	0.000	3.483	0	01:45	0	24.9	0.000
CH36_PRE	JUNCTION	0.629	4.112	0	01:45	4.42	29.4	0.000
CH37_PRE	JUNCTION	0.000	4.112	0	01:45	0	29.4	0.000
CH38_PRE	JUNCTION	0.000	4.112	0	01:45	0	29.4	0.000
CH39_PRE	JUNCTION	0.572	4.684	0	01:45	4.29	33.7	0.000
CH40_PRE	JUNCTION	0.000	4.684	0	01:45	0	33.7	0.000
CH41_PRE	JUNCTION	0.000	4.684	0	01:45	0	33.7	0.000
CH42_PRE	JUNCTION	0.000	4.684	0	01:45	0	33.7	0.000
CH43_PRE	JUNCTION	0.444	5.109	0	01:45	2.51	36.2	0.000
MHOUTPRE0	OUTFALL	0.000	3.720	0	01:55	0	37.1	0.000
MHOUT0	OUTFALL	0.000	3.639	0	00:41	0	22.5	0.000
MHOUTPRE1	OUTFALL	0.000	5.109	0	01:45	0	36.2	0.000
MHOUT1	OUTFALL	0.000	4.588	0	00:48	0	25.8	0.000
POND1	STORAGE	1.660	1.660	0	00:35	4.88	4.88	0.033
POND2	STORAGE	1.569	1.569	0	00:35	4.44	4.44	0.053
MINING_PIT	STORAGE	3.321	4.725	0	00:30	8.1	13.2	0.015
POND3	STORAGE	2.162	2.162	0	00:30	4.75	4.75	0.033
POND4	STORAGE	1.178	1.178	0	00:25	2.31	2.31	0.010
POND5	STORAGE	1.519	1.519	0	00:30	3.77	3.77	-0.000
POND6	STORAGE	1.457	1.457	0	00:30	3.19	3.19	-0.000
POND7	STORAGE	1.798	1.798	0	00:30	3.84	3.84	0.012
POND8	STORAGE	1.452	1.452	0	00:30	3.11	3.11	0.035
POND9	STORAGE	1.344	1.344	0	00:30	3.02	3.02	0.011
POND10	STORAGE	0.909	0.909	0	00:30	1.83	1.83	0.016

****
Node Flooding Summary
****

No nodes were flooded.

****
Storage Volume Summary
****

Storage Unit	Average Volume 1000 m³	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 m³	Max Pcnt Full	Time of Max Occurrence days	hr:min	Maximum Outflow CMS
POND1	0.008	1.5	0.0	0.0	0.275	50.2	0	00:38	1.561
POND2	0.022	1.9	0.0	0.0	0.619	52.5	0	00:42	1.300
MINING_PIT	0.903	5.7	0.0	0.0	7.632	48.5	0	01:16	0.882
POND3	0.053	1.6	0.0	0.0	1.558	47.4	0	00:46	1.219
POND4	0.111	3.6	0.0	0.0	1.507	48.8	0	00:54	0.265
POND5	0.053	1.6	0.0	0.0	1.279	38.9	0	00:49	0.795
POND6	0.312	6.6	0.0	0.0	2.289	48.3	0	01:11	0.194
POND7	0.065	1.7	0.0	0.0	1.627	44.0	0	00:48	0.793
POND8	0.035	1.2	0.0	0.0	1.063	38.4	0	00:45	0.797
POND9	0.123	3.2	0.0	0.0	1.710	44.0	0	00:58	0.348
POND10	0.103	4.9	0.0	0.0	1.194	56.7	0	00:56	0.204

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CMS	Max Flow CMS	Total Volume 10^6 ltr
MHOUTPRE0	70.95	0.607	3.720	37.106
MHOUT0	99.62	0.262	3.639	22.470
MHOUTPRE1	41.30	1.017	5.109	36.157
MHOUT1	99.63	0.301	4.588	25.807
System	77.87	2.187	12.490	121.540

****
Link Flow Summary

****

Link	Type	Maximum |Flow| CMS	Time of Max Occurrence days	hr:min	Maximum |Veloc| m/sec	Max/ Full Flow	Max/ Full Depth
LCH1_1	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH1_2	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH1_3	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH1_4	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH1_5	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH1_6	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH1_7	CONDUIT	2.849	0	00:40	1.32	0.25	0.46
LCH1_8	CONDUIT	2.849	0	00:40	1.31	0.25	0.46
LCH1_9	CONDUIT	2.849	0	00:40	2.65	0.09	0.24
LCH1_10	CONDUIT	2.849	0	00:40	2.67	0.08	0.24
LCH1_11	CONDUIT	2.849	0	00:40	2.40	0.10	0.26
LCH1_12	CONDUIT	2.849	0	00:40	2.21	0.11	0.29
LCH1_13	CONDUIT	2.849	0	00:40	1.97	0.14	0.32
LCH1_14	CONDUIT	2.849	0	00:40	1.31	0.25	0.46
LCH1_15	CONDUIT	2.849	0	00:40	2.57	0.09	0.25
LCH1_16	CONDUIT	2.849	0	00:40	2.51	0.09	0.25
LCH1_17	CONDUIT	2.849	0	00:40	1.32	0.25	0.46
LCH1_18	CONDUIT	2.849	0	00:40	1.31	0.25	0.46
LCH1_19	CONDUIT	2.849	0	00:40	2.76	0.08	0.23
LCH1_20	CONDUIT	2.849	0	00:40	2.47	0.10	0.26
LCH1_21	CONDUIT	2.849	0	00:40	7.76	0.02	0.09
LCH1_22	CONDUIT	3.639	0	00:41	1.80	0.23	0.43
LCH1_23	CONDUIT	3.639	0	00:41	1.43	0.33	0.53
LCH1_24	CONDUIT	3.639	0	00:41	1.43	0.33	0.53
LCH1_25	CONDUIT	3.639	0	00:41	1.43	0.33	0.53
LCH1_26	CONDUIT	3.639	0	00:41	1.43	0.33	0.53
LCH2_1	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH2_2	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH2_3	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH2_4	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH2_5	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH2_6	CONDUIT	2.849	0	00:40	1.84	0.15	0.34
LCH3_1	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_2	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_4	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_5	CONDUIT	0.000	0	00:00	0.00	0.00	0.00

LCH3_6	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_7	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_8	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_9	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_10	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_11	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_12	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_13	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_14	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_15	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_16	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_17	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_18	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_19	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_20	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_21	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_22	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH4_1	CONDUIT	1.219	0	00:46	2.70	0.02	0.11
LCH4_2	CONDUIT	1.219	0	00:46	2.48	0.02	0.11
LCH4_3	CONDUIT	1.219	0	00:46	2.25	0.03	0.13
LCH4_4	CONDUIT	1.219	0	00:46	2.49	0.02	0.11
LCH4_5	CONDUIT	1.219	0	00:46	3.31	0.02	0.09
LCH4_6	CONDUIT	1.219	0	00:46	0.97	0.11	0.28
LCH4_7	CONDUIT	1.219	0	00:46	0.97	0.11	0.28
LCH4_8	CONDUIT	1.219	0	00:46	0.97	0.11	0.28
LCH4_9	CONDUIT	1.219	0	00:46	0.97	0.11	0.28
LCH4_10	CONDUIT	1.219	0	00:46	1.26	0.07	0.22
LCH4_11	CONDUIT	1.219	0	00:46	0.97	0.11	0.28
LCH4_12	CONDUIT	1.219	0	00:46	1.18	0.08	0.23
LCH4_13	CONDUIT	1.219	0	00:46	0.97	0.11	0.28
LCH4_14	CONDUIT	1.219	0	00:46	1.44	0.06	0.19
LCH4_15	CONDUIT	1.219	0	00:46	1.34	0.07	0.21
LCH4_16	CONDUIT	1.480	0	00:47	1.04	0.13	0.31
LCH4_17	CONDUIT	1.480	0	00:47	1.68	0.06	0.20
LCH4_18	CONDUIT	1.480	0	00:47	1.04	0.13	0.31
LCH4_19	CONDUIT	1.480	0	00:47	1.13	0.12	0.29
LCH4_20	CONDUIT	1.480	0	00:47	1.04	0.13	0.31
LCH4_21	CONDUIT	1.480	0	00:47	1.16	0.11	0.28
LCH4_22	CONDUIT	2.274	0	00:47	2.13	0.08	0.24
LCH4_23	CONDUIT	2.274	0	00:47	2.03	0.09	0.25
LCH4_24	CONDUIT	2.274	0	00:47	2.50	0.07	0.21
LCH4_25	CONDUIT	2.274	0	00:47	2.18	0.08	0.23
LCH4_26	CONDUIT	2.274	0	00:47	1.59	0.13	0.31

LCH4_27	CONDUIT	2.274	0	00:47	1.62	0.13	0.31
LCH4_28	CONDUIT	2.274	0	00:47	1.44	0.16	0.34
LCH4_29	CONDUIT	2.459	0	00:48	1.60	0.15	0.34
LCH4_30	CONDUIT	2.459	0	00:48	1.25	0.22	0.42
LCH4_31	CONDUIT	2.459	0	00:48	1.25	0.22	0.42
LCH4_32	CONDUIT	2.459	0	00:48	1.25	0.22	0.42
LCH4_33	CONDUIT	2.459	0	00:48	1.25	0.22	0.42
LCH4_34	CONDUIT	2.459	0	00:48	1.25	0.22	0.42
LCH4_35	CONDUIT	2.459	0	00:48	2.20	0.09	0.25
LCH4_36	CONDUIT	2.459	0	00:48	2.89	0.06	0.19
LCH4_37	CONDUIT	2.459	0	00:48	1.76	0.13	0.31
LCH4_38	CONDUIT	2.459	0	00:48	1.25	0.22	0.42
LCH4_39	CONDUIT	3.252	0	00:48	2.35	0.13	0.30
LCH4_40	CONDUIT	3.252	0	00:48	1.38	0.29	0.49
LCH4_42	CONDUIT	3.252	0	00:48	1.37	0.29	0.49
LCH4_43	CONDUIT	3.252	0	00:48	1.38	0.29	0.49
LCH4_44	CONDUIT	3.252	0	00:48	1.96	0.17	0.36
LCH4_45	CONDUIT	4.046	0	00:47	1.48	0.24	0.45
LCH4_46	CONDUIT	4.046	0	00:47	1.48	0.24	0.45
LCH4_47	CONDUIT	4.046	0	00:47	1.48	0.24	0.45
LCH4_48	CONDUIT	4.046	0	00:47	1.48	0.24	0.45
LCH4_49	CONDUIT	4.046	0	00:47	1.48	0.17	0.37
LCH4_50	CONDUIT	4.387	0	00:48	3.17	0.06	0.20
LCH4_51	CONDUIT	4.387	0	00:48	1.83	0.14	0.33
LCH4_52	CONDUIT	4.387	0	00:48	2.41	0.09	0.26
LCH4_53	CONDUIT	4.387	0	00:48	2.32	0.21	0.40
LCH4_54	CONDUIT	4.387	0	00:48	1.92	0.28	0.48
LCH4_55	CONDUIT	4.387	0	00:48	1.76	0.21	0.41
LCH4_56	CONDUIT	4.387	0	00:48	1.52	0.19	0.39
LCH3_3	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH4_41	CONDUIT	3.252	0	00:48	1.38	0.29	0.49
LMH1	CONDUIT	1.561	0	00:38	8.45	0.44	0.47
LMH2	CONDUIT	1.300	0	00:42	6.84	0.36	0.41
LMH3	CONDUIT	1.502	0	00:35	11.48	0.37	0.42
LMH3.1	CONDUIT	1.502	0	00:35	10.13	0.33	0.39
LMH3.3	CONDUIT	1.219	0	00:46	6.31	0.36	0.42
LMH4	CONDUIT	0.265	0	00:54	7.71	0.10	0.21
LCH15_1	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH15_2	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH15_3	CONDUIT	0.265	0	00:54	0.55	0.02	0.11
LCH15_4	CONDUIT	0.265	0	00:54	1.46	0.00	0.04
LMH4.1	CONDUIT	0.265	0	00:54	6.32	0.13	0.24
LMH5	CONDUIT	0.795	0	00:49	8.92	0.37	0.42

LMH6	CONDUIT	0.194	0	01:11	7.26	0.07	0.18
LMH7	CONDUIT	0.793	0	00:48	9.98	0.31	0.38
LMH8	CONDUIT	0.797	0	00:45	9.21	0.35	0.41
LMH9	CONDUIT	0.348	0	00:58	7.13	0.16	0.27
LCH4_57	CONDUIT	4.387	0	00:48	2.50	0.18	0.38
LCH4_58	CONDUIT	4.387	0	00:48	1.52	0.26	0.47
LCH4_59	CONDUIT	4.387	0	00:48	2.09	0.24	0.44
LCH4_60	CONDUIT	4.588	0	00:48	2.17	0.25	0.45
LMH10	CONDUIT	0.204	0	00:56	7.72	0.11	0.23
LMH3.2	CONDUIT	1.502	0	00:35	10.56	0.41	0.45
LCH1_PRE	CONDUIT	1.445	0	02:05	1.74	0.06	0.19
LCH2_PRE	CONDUIT	1.445	0	02:05	2.77	0.03	0.12
LMHOUTPRE3	CONDUIT	1.445	0	02:05	3.13	0.02	0.11
LMHOUTPRE4	CONDUIT	1.445	0	02:05	2.95	0.02	0.11
LMHOUTPRE5	CONDUIT	1.445	0	02:05	2.57	0.03	0.13
LMHOUTPRE6	CONDUIT	1.445	0	02:05	1.74	0.06	0.19
LMHOUTPRE7	CONDUIT	1.445	0	02:05	3.18	0.02	0.11
LMHOUTPRE8	CONDUIT	1.445	0	02:05	1.74	0.06	0.19
LMHOUTPRE9	CONDUIT	1.445	0	02:05	1.74	0.06	0.19
LMHOUTPRE10	CONDUIT	1.445	0	02:05	3.40	0.02	0.10
LMHOUTPRE11	CONDUIT	1.445	0	02:05	6.53	0.01	0.05
LMHOUTPRE12	CONDUIT	3.720	0	01:55	2.46	0.15	0.33
LMHOUTPRE13	CONDUIT	3.720	0	01:55	2.46	0.15	0.33
KOUTPRE1	CONDUIT	3.720	0	01:55	2.46	0.15	0.33
LMHOUTPRE16	CONDUIT	2.296	0	01:50	2.07	0.09	0.25
LCH17_PRE	CONDUIT	0.861	0	01:45	3.63	0.01	0.07
LCH18_PRE	CONDUIT	0.861	0	01:45	3.93	0.01	0.07
LCH19_PRE	CONDUIT	0.861	0	01:45	2.74	0.02	0.10
LCH20_PRE	CONDUIT	0.861	0	01:45	1.43	0.06	0.18
LCH21_PRE	CONDUIT	0.861	0	01:45	1.58	0.05	0.17
LCH22_PRE	CONDUIT	0.861	0	01:45	2.21	0.03	0.12
LCH23_PRE	CONDUIT	0.861	0	01:45	1.43	0.06	0.18
LCH24_PRE	CONDUIT	1.399	0	01:40	2.56	0.05	0.17
LCH25_PRE	CONDUIT	1.399	0	01:40	2.53	0.05	0.17
LCH26_PRE	CONDUIT	1.399	0	01:40	2.10	0.07	0.20
LCH27_PRE	CONDUIT	1.399	0	01:40	1.72	0.09	0.25
LCH28_PRE	CONDUIT	2.012	0	01:45	3.48	0.05	0.18
LCH29_PRE	CONDUIT	2.012	0	01:45	2.91	0.07	0.21
LCH30_PRE	CONDUIT	2.012	0	01:45	2.82	0.07	0.22
LCH31_PRE	CONDUIT	2.674	0	01:45	2.53	0.14	0.32
LCH32_PRE	CONDUIT	2.674	0	01:45	2.19	0.17	0.36
LCH33_PRE	CONDUIT	2.674	0	01:45	3.73	0.07	0.22
LCH34_PRE	CONDUIT	3.483	0	01:45	3.50	0.13	0.30

LCH35_PRE	CONDUIT	3.483	0	01:45	2.40	0.23	0.42
LCH36_PRE	CONDUIT	4.112	0	01:45	3.65	0.15	0.33
LCH37_PRE	CONDUIT	4.112	0	01:45	2.55	0.27	0.47
LCH38_PRE	CONDUIT	4.112	0	01:45	2.55	0.27	0.47
LCH39_PRE	CONDUIT	4.684	0	01:45	4.66	0.13	0.30
LCH40_PRE	CONDUIT	4.684	0	01:45	3.26	0.22	0.42
LCH41_PRE	CONDUIT	4.684	0	01:45	3.39	0.21	0.40
LCH42_PRE	CONDUIT	4.684	0	01:45	3.29	0.22	0.42
KOUTPRE0	CONDUIT	5.109	0	01:45	4.68	0.15	0.33
10yr1	ORIFICE	1.561	0	00:38			0.00
50yr1	ORIFICE	0.000	0	00:00			0.00
10yr2	ORIFICE	1.300	0	00:42			0.00
50yr2	ORIFICE	0.000	0	00:00			0.00
10yrMP	ORIFICE	0.882	0	01:16			0.00
50yrMP	ORIFICE	0.000	0	00:00			0.00
10yr3	ORIFICE	1.219	0	00:46			0.00
50yr3	ORIFICE	0.000	0	00:00			0.00
10yr4	ORIFICE	0.265	0	00:54			0.00
50yr4	ORIFICE	0.000	0	00:00			0.00
10yr5	ORIFICE	0.795	0	00:49			0.00
50yr5	ORIFICE	0.000	0	00:00			0.00
10yr6	ORIFICE	0.194	0	01:11			0.00
50yr6	ORIFICE	0.000	0	00:00			0.00
10yr7	ORIFICE	0.793	0	00:48			0.00
50yr7	ORIFICE	0.000	0	00:00			0.00
10yr8	ORIFICE	0.797	0	00:45			0.00
50yr8	ORIFICE	0.000	0	00:00			0.00
10yr9	ORIFICE	0.348	0	00:58			0.00
50yr9	ORIFICE	0.000	0	00:00			0.00
10yr10	ORIFICE	0.204	0	00:56			0.00
50yr10	ORIFICE	0.000	0	00:00			0.00
100yrWeir1	WEIR	0.000	0	00:00			0.00
100yrWeir2	WEIR	0.000	0	00:00			0.00
100yrWeir3	WEIR	0.000	0	00:00			0.00
100yrWeir4	WEIR	0.000	0	00:00			0.00
100yrWeir5	WEIR	0.000	0	00:00			0.00
100yrWeir6	WEIR	0.000	0	00:00			0.00
100yrWeir7	WEIR	0.000	0	00:00			0.00
100yrWeir8	WEIR	0.000	0	00:00			0.00
100yrWeir9	WEIR	0.000	0	00:00			0.00
100yrWeir10	WEIR	0.000	0	00:00			0.00
100yrWeirMP	WEIR	0.000	0	00:00			0.00

```
************************
Conduit Surcharge Summary
************************

No conduits were surcharged.


Analysis begun on:  Mon Jul 27 09:08:16 2026
Analysis ended on:  Mon Jul 27 09:08:18 2026
Total elapsed time: 00:00:02
```

ANNEXURE G2: RUNOFF DETERMINATION CALCULATIONS 1:50-YEAR

```
EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)
--------------------------------------------------------------


****************
Analysis Options
****************
Flow Units ............... CMS
Process Models:
  Rainfall/Runoff ........ YES
  RDII ................... NO
  Snowmelt ............... NO
  Groundwater ............ NO
  Flow Routing ........... YES
  Ponding Allowed ........ NO
  Water Quality .......... NO
Infiltration Method ...... GREEN_AMPT
Flow Routing Method ...... STEADY
Starting Date ............ 01/01/2010 00:00:00
Ending Date .............. 01/01/2010 23:55:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 5.00 sec


**************************        Volume         Depth
Runoff Quantity Continuity     hectare-m            mm
**************************     ---------       -------
Total Precipitation ......        32.349        54.234
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........         9.049        15.171
Surface Runoff ...........        23.178        38.860
Final Storage ............         0.189         0.317
Continuity Error (%) .....        -0.209


**************************        Volume        Volume
Flow Routing Continuity        hectare-m      10^6 ltr
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
```

Wet Weather Inflow	23.178	231.787
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	23.175	231.751
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.001	0.007
Continuity Error (%)	0.013	

****
Highest Flow Instability Indexes
****
All links are stable.

****
Routing Time Step Summary
****

Minimum Time Step	:	5.00 sec
Average Time Step	:	5.00 sec
Maximum Time Step	:	5.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	1.00
% of Steps Not Converging	:	0.00

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip mm	Total Runon mm	Total Evap mm	Total Infil mm	Imperv Runoff mm	Perv Runoff mm	Total Runoff mm	Total Runoff 10^6 ltr	Peak Runoff CMS	Runoff Coeff
C_POST1	37.65	0.00	0.00	11.25	17.56	8.45	26.01	9.14	3.06	0.691
C_POST2	37.65	0.00	0.00	10.67	17.87	8.70	26.58	8.27	2.91	0.706
C_POST3	37.65	0.00	0.00	12.36	17.47	7.49	24.96	9.45	2.80	0.663
C_POST4	37.65	0.00	0.00	12.05	16.34	9.09	25.42	7.95	2.70	0.675

C_POST5	37.65	0.00	0.00	6.88	20.00	10.65	30.65	6.90	3.44	0.814
C_POST6	37.65	0.00	0.00	5.07	24.90	7.17	32.07	8.12	3.84	0.852
C_POST7	37.65	0.00	0.00	4.65	24.94	7.87	32.80	3.91	2.10	0.871
C_POST8	37.65	0.00	0.00	7.31	21.93	8.12	30.04	6.64	2.76	0.798
C_POST9	37.65	0.00	0.00	6.20	22.77	8.45	31.21	5.54	2.57	0.829
C_POST10	37.65	0.00	0.00	5.17	24.64	7.60	32.24	6.54	3.16	0.856
C_POST11	37.65	0.00	0.00	5.96	22.97	8.51	31.47	5.38	2.58	0.836
C_POST12	37.65	0.00	0.00	6.45	22.57	8.38	30.94	5.27	2.38	0.822
C_POST13	37.65	0.00	0.00	3.21	28.55	5.61	34.16	3.03	1.60	0.907
C_PRE1	72.33	0.00	0.00	24.77	7.09	40.34	47.43	16.67	1.61	0.656
C_PRE2	72.33	0.00	0.00	24.30	7.09	40.81	47.90	14.90	1.49	0.662
C_PRE3	72.33	0.00	0.00	26.73	7.09	38.37	45.46	17.20	1.47	0.629
C_PRE4	72.33	0.00	0.00	25.72	7.09	39.38	46.48	14.54	1.32	0.643
C_PRE5	72.33	0.00	0.00	17.14	7.10	48.00	55.10	12.40	2.03	0.762
C_PRE6	69.12	0.00	0.00	19.74	6.78	42.50	49.28	12.48	1.76	0.713
C_PRE7	69.12	0.00	0.00	17.07	6.78	45.19	51.97	6.19	1.07	0.752
C_PRE8	69.12	0.00	0.00	21.54	6.78	40.69	47.47	10.49	1.30	0.687
C_PRE9	69.13	0.00	0.00	18.90	6.78	43.35	50.12	8.90	1.34	0.725
C_PRE10	69.12	0.00	0.00	18.29	6.78	43.96	50.74	10.29	1.62	0.734
C_PRE11	69.12	0.00	0.00	19.01	6.78	43.24	50.01	8.54	1.27	0.724
C_PRE12	69.13	0.00	0.00	19.84	6.78	42.40	49.18	8.37	1.17	0.711
C_PRE13	69.13	0.00	0.00	16.35	6.78	45.91	52.70	4.67	0.85	0.762

****
Node Depth Summary
****

Node	Type	Average Depth Meters	Maximum Depth Meters	Maximum HGL Meters	Time of Max Occurrence days	hr:min	Reported Max Depth Meters
CH12_PRE	JUNCTION	0.05	0.30	130.91	0	01:45	0.30
CH1_1	JUNCTION	0.00	0.00	192.52	0	00:00	0.00
CH1_2	JUNCTION	0.00	0.00	189.28	0	00:00	0.00
CH1_3	JUNCTION	0.00	0.00	186.99	0	00:00	0.00
CH1_4	JUNCTION	0.00	0.00	185.99	0	00:00	0.00
CH1_5	JUNCTION	0.00	0.00	182.42	0	00:00	0.00
CH1_6	JUNCTION	0.00	0.00	177.55	0	00:00	0.00
CH1_7	JUNCTION	0.04	0.55	176.67	0	00:35	0.55
CH1_8	JUNCTION	0.04	0.55	176.36	0	00:35	0.55
CH1_9	JUNCTION	0.04	0.55	175.91	0	00:35	0.55

CH1_10	JUNCTION	0.02	0.29	169.50	0	00:35	0.29
CH1_11	JUNCTION	0.02	0.32	168.41	0	00:35	0.32
CH1_12	JUNCTION	0.02	0.34	167.50	0	00:35	0.34
CH1_13	JUNCTION	0.03	0.38	166.55	0	00:35	0.38
CH1_14	JUNCTION	0.04	0.55	165.88	0	00:35	0.55
CH1_15	JUNCTION	0.04	0.55	165.70	0	00:35	0.55
CH1_16	JUNCTION	0.02	0.31	163.61	0	00:35	0.31
CH1_17	JUNCTION	0.04	0.55	162.47	0	00:35	0.55
CH1_18	JUNCTION	0.04	0.55	162.20	0	00:35	0.55
CH1_19	JUNCTION	0.04	0.55	161.94	0	00:35	0.55
CH1_20	JUNCTION	0.02	0.31	160.51	0	00:35	0.31
CH1_21	JUNCTION	0.02	0.31	158.63	0	00:35	0.31
CH1_22	JUNCTION	0.06	0.49	128.92	0	00:36	0.49
CH1_23	JUNCTION	0.08	0.60	128.41	0	00:36	0.60
CH1_24	JUNCTION	0.08	0.60	127.98	0	00:36	0.60
CH1_25	JUNCTION	0.08	0.60	127.70	0	00:36	0.60
CH1_26	JUNCTION	0.08	0.60	127.38	0	00:36	0.60
CH2_1	JUNCTION	0.00	0.00	182.61	0	00:00	0.00
CH2_2	JUNCTION	0.00	0.00	181.32	0	00:00	0.00
CH2_3	JUNCTION	0.00	0.00	180.70	0	00:00	0.00
CH2_4	JUNCTION	0.00	0.00	177.64	0	00:00	0.00
CH2_5	JUNCTION	0.00	0.00	176.79	0	00:00	0.00
CH2_6	JUNCTION	0.04	0.51	177.01	0	00:34	0.51
CH3_1	JUNCTION	0.00	0.00	197.04	0	00:00	0.00
CH3_2	JUNCTION	0.00	0.00	194.58	0	00:00	0.00
CH3_3	JUNCTION	0.00	0.00	189.61	0	00:00	0.00
CH3_4	JUNCTION	0.00	0.00	187.06	0	00:00	0.00
CH3_5	JUNCTION	0.00	0.00	182.43	0	00:00	0.00
CH3_6	JUNCTION	0.00	0.00	179.03	0	00:00	0.00
CH3_7	JUNCTION	0.00	0.00	172.87	0	00:00	0.00
CH3_8	JUNCTION	0.00	0.00	172.67	0	00:00	0.00
CH3_9	JUNCTION	0.00	0.00	172.17	0	00:00	0.00
CH3_10	JUNCTION	0.00	0.00	170.17	0	00:00	0.00
CH3_11	JUNCTION	0.00	0.00	170.09	0	00:00	0.00
CH3_12	JUNCTION	0.00	0.00	168.75	0	00:00	0.00
CH3_13	JUNCTION	0.00	0.00	167.76	0	00:00	0.00
CH3_14	JUNCTION	0.00	0.00	167.27	0	00:00	0.00
CH3_15	JUNCTION	0.00	0.00	166.71	0	00:00	0.00
CH3_16	JUNCTION	0.00	0.00	164.44	0	00:00	0.00
CH3_17	JUNCTION	0.00	0.00	164.03	0	00:00	0.00
CH3_18	JUNCTION	0.00	0.00	162.48	0	00:00	0.00
CH3_19	JUNCTION	0.00	0.00	162.35	0	00:00	0.00
CH3_20	JUNCTION	0.00	0.00	161.90	0	00:00	0.00

CH3_21	JUNCTION	0.00	0.00	160.59	0	00:00	0.00
CH3_22	JUNCTION	0.00	0.00	158.86	0	00:00	0.00
CH4_1	JUNCTION	0.03	0.52	178.91	0	00:42	0.51
CH4_2	JUNCTION	0.01	0.14	174.74	0	00:42	0.14
CH4_3	JUNCTION	0.01	0.16	170.81	0	00:42	0.16
CH4_4	JUNCTION	0.01	0.16	167.94	0	00:42	0.16
CH4_5	JUNCTION	0.01	0.14	164.61	0	00:42	0.14
CH4_6	JUNCTION	0.02	0.34	158.56	0	00:42	0.34
CH4_7	JUNCTION	0.02	0.34	158.09	0	00:42	0.34
CH4_8	JUNCTION	0.02	0.34	157.78	0	00:42	0.34
CH4_9	JUNCTION	0.02	0.34	157.34	0	00:42	0.34
CH4_10	JUNCTION	0.02	0.34	156.73	0	00:42	0.34
CH4_11	JUNCTION	0.02	0.34	155.52	0	00:42	0.34
CH4_12	JUNCTION	0.02	0.34	155.06	0	00:42	0.34
CH4_13	JUNCTION	0.02	0.34	154.21	0	00:42	0.34
CH4_14	JUNCTION	0.02	0.34	153.84	0	00:42	0.34
CH4_15	JUNCTION	0.01	0.26	152.58	0	00:42	0.25
CH4_16	JUNCTION	0.03	0.38	152.03	0	00:44	0.38
CH4_17	JUNCTION	0.03	0.38	151.76	0	00:44	0.38
CH4_18	JUNCTION	0.03	0.38	150.81	0	00:44	0.38
CH4_19	JUNCTION	0.03	0.38	150.60	0	00:44	0.38
CH4_20	JUNCTION	0.03	0.38	150.03	0	00:44	0.38
CH4_21	JUNCTION	0.03	0.38	149.68	0	00:44	0.38
CH4_22	JUNCTION	0.03	0.35	149.36	0	00:44	0.35
CH4_23	JUNCTION	0.02	0.29	147.60	0	00:45	0.29
CH4_24	JUNCTION	0.02	0.29	146.24	0	00:45	0.29
CH4_25	JUNCTION	0.02	0.27	143.18	0	00:45	0.27
CH4_26	JUNCTION	0.03	0.36	141.24	0	00:45	0.36
CH4_27	JUNCTION	0.03	0.36	140.30	0	00:45	0.36
CH4_28	JUNCTION	0.03	0.39	139.48	0	00:45	0.39
CH4_29	JUNCTION	0.05	0.39	138.96	0	00:45	0.39
CH4_30	JUNCTION	0.05	0.48	138.39	0	00:46	0.48
CH4_31	JUNCTION	0.05	0.48	138.14	0	00:46	0.48
CH4_32	JUNCTION	0.05	0.48	137.98	0	00:46	0.48
CH4_33	JUNCTION	0.05	0.48	137.69	0	00:46	0.48
CH4_34	JUNCTION	0.05	0.48	137.46	0	00:46	0.48
CH4_35	JUNCTION	0.05	0.48	137.09	0	00:46	0.48
CH4_36	JUNCTION	0.03	0.29	135.48	0	00:46	0.29
CH4_37	JUNCTION	0.04	0.35	132.01	0	00:46	0.35
CH4_38	JUNCTION	0.05	0.48	131.42	0	00:46	0.48
CH4_39	JUNCTION	0.05	0.48	131.22	0	00:46	0.48
CH4_40	JUNCTION	0.06	0.56	130.17	0	00:46	0.56
CH4_41	JUNCTION	0.06	0.56	129.87	0	00:46	0.56

CH4_42	JUNCTION	0.06	0.56	129.68	0	00:46	0.56
CH4_43	JUNCTION	0.06	0.56	129.39	0	00:46	0.56
CH4_44	JUNCTION	0.06	0.56	128.98	0	00:46	0.56
CH4_45	JUNCTION	0.06	0.63	128.34	0	00:46	0.63
CH4_46	JUNCTION	0.06	0.63	128.03	0	00:46	0.63
CH4_47	JUNCTION	0.06	0.63	127.81	0	00:46	0.63
CH4_48	JUNCTION	0.06	0.63	127.52	0	00:46	0.63
CH4_49	JUNCTION	0.06	0.63	127.39	0	00:46	0.63
CH4_50	JUNCTION	0.06	0.63	126.67	0	00:46	0.63
CH4_51	JUNCTION	0.06	0.56	123.89	0	00:47	0.56
CH4_52	JUNCTION	0.06	0.56	123.43	0	00:47	0.56
CH4_53	JUNCTION	0.05	0.45	122.45	0	00:47	0.45
CH4_54	JUNCTION	0.06	0.54	121.55	0	00:47	0.53
CH4_55	JUNCTION	0.06	0.58	121.10	0	00:47	0.57
CH4_56	JUNCTION	0.07	0.66	120.88	0	00:47	0.65
MH1	JUNCTION	0.04	0.51	184.23	0	00:34	0.51
MH2	JUNCTION	0.04	0.51	179.74	0	00:36	0.51
MH3	JUNCTION	0.04	0.39	170.71	0	00:35	0.39
MH3.1	JUNCTION	0.04	0.41	164.76	0	00:35	0.41
MH3.3	JUNCTION	0.03	0.52	181.23	0	00:42	0.51
MH4	JUNCTION	0.02	0.16	174.14	0	00:50	0.16
MH4.1	JUNCTION	0.03	0.19	163.03	0	00:50	0.19
CH15_1	JUNCTION	0.00	0.00	158.24	0	00:00	0.00
CH15_2	JUNCTION	0.00	0.00	155.91	0	00:00	0.00
CH15_3	JUNCTION	0.03	0.19	155.78	0	00:50	0.19
CH15_4	JUNCTION	0.02	0.14	155.62	0	00:50	0.14
MH5	JUNCTION	0.03	0.29	162.12	0	00:50	0.29
MH6	JUNCTION	0.04	0.14	161.11	0	01:03	0.14
MH7	JUNCTION	0.02	0.30	141.67	0	00:46	0.30
MH8	JUNCTION	0.02	0.29	135.41	0	00:46	0.29
MH9	JUNCTION	0.03	0.20	134.35	0	00:55	0.20
CH4_57	JUNCTION	0.07	0.66	120.67	0	00:47	0.65
CH4_58	JUNCTION	0.07	0.66	119.92	0	00:47	0.65
CH4_59	JUNCTION	0.07	0.66	119.67	0	00:47	0.65
CH4_60	JUNCTION	0.05	0.51	118.82	0	00:47	0.51
MH10	JUNCTION	0.02	0.18	138.22	0	00:47	0.18
MH3.2	JUNCTION	0.04	0.43	155.37	0	00:35	0.43
CH1_PRE	JUNCTION	0.04	0.24	176.53	0	02:00	0.24
CH2_PRE	JUNCTION	0.04	0.24	176.09	0	02:00	0.24
CH3_PRE	JUNCTION	0.03	0.15	171.93	0	02:00	0.15
CH4_PRE	JUNCTION	0.02	0.14	168.75	0	02:00	0.14
CH5_PRE	JUNCTION	0.03	0.16	167.06	0	02:00	0.16
CH6_PRE	JUNCTION	0.04	0.24	165.82	0	02:00	0.24

CH7_PRE	JUNCTION	0.04	0.24	165.62	0	02:00	0.24
CH8_PRE	JUNCTION	0.04	0.24	161.93	0	02:00	0.24
CH9_PRE	JUNCTION	0.04	0.24	161.69	0	02:00	0.24
CH10_PRE	JUNCTION	0.04	0.24	161.46	0	02:00	0.24
CH11_PRE	JUNCTION	0.02	0.13	158.58	0	02:00	0.13
CH13_PRE	JUNCTION	0.07	0.40	130.34	0	01:50	0.40
CH14_PRE	JUNCTION	0.07	0.40	129.81	0	01:50	0.40
CH15_PRE	JUNCTION	0.07	0.40	129.15	0	01:50	0.40
CH17_PRE	JUNCTION	0.01	0.07	173.53	0	01:40	0.07
CH18_PRE	JUNCTION	0.01	0.07	167.39	0	01:40	0.07
CH19_PRE	JUNCTION	0.01	0.09	162.49	0	01:40	0.09
CH20_PRE	JUNCTION	0.02	0.17	158.76	0	01:40	0.17
CH21_PRE	JUNCTION	0.02	0.17	157.44	0	01:40	0.17
CH22_PRE	JUNCTION	0.02	0.15	155.98	0	01:40	0.15
CH23_PRE	JUNCTION	0.02	0.17	153.85	0	01:40	0.17
CH24_PRE	JUNCTION	0.02	0.17	153.28	0	01:40	0.17
CH25_PRE	JUNCTION	0.02	0.16	151.36	0	01:35	0.16
CH26_PRE	JUNCTION	0.02	0.18	150.21	0	01:35	0.18
CH27_PRE	JUNCTION	0.02	0.22	149.08	0	01:35	0.22
CH28_PRE	JUNCTION	0.02	0.22	148.77	0	01:35	0.22
CH29_PRE	JUNCTION	0.02	0.19	144.03	0	01:35	0.19
CH30_PRE	JUNCTION	0.02	0.20	142.00	0	01:35	0.20
CH31_PRE	JUNCTION	0.03	0.29	139.19	0	01:35	0.29
CH32_PRE	JUNCTION	0.04	0.33	138.14	0	01:35	0.33
CH33_PRE	JUNCTION	0.04	0.33	137.17	0	01:35	0.33
CH34_PRE	JUNCTION	0.03	0.27	133.25	0	01:35	0.27
CH35_PRE	JUNCTION	0.04	0.38	129.92	0	01:35	0.38
CH36_PRE	JUNCTION	0.04	0.38	129.27	0	01:35	0.38
CH37_PRE	JUNCTION	0.05	0.42	127.43	0	01:35	0.42
CH38_PRE	JUNCTION	0.05	0.42	127.14	0	01:35	0.42
CH39_PRE	JUNCTION	0.05	0.42	126.39	0	01:35	0.42
CH40_PRE	JUNCTION	0.04	0.38	122.40	0	01:35	0.38
CH41_PRE	JUNCTION	0.04	0.38	121.09	0	01:35	0.38
CH42_PRE	JUNCTION	0.04	0.38	120.28	0	01:35	0.38
CH43_PRE	JUNCTION	0.04	0.38	119.28	0	01:35	0.38
MHOUTPRE0	OUTFALL	0.07	0.40	128.92	0	01:50	0.40
MHOUT0	OUTFALL	0.08	0.60	127.11	0	00:36	0.60
MHOUTPRE1	OUTFALL	0.03	0.30	117.79	0	01:35	0.29
MHOUT1	OUTFALL	0.05	0.51	118.20	0	00:47	0.51
POND1	STORAGE	0.06	1.33	188.27	0	00:34	1.33
POND2	STORAGE	0.06	1.34	183.57	0	00:36	1.33
MINING_PIT	STORAGE	0.82	4.48	133.63	0	00:59	4.48
POND3	STORAGE	0.06	1.36	185.69	0	00:42	1.35

POND4	STORAGE	0.15	1.35	185.24	0	00:50	1.35	
POND5	STORAGE	0.08	1.33	167.27	0	00:50	1.33	
POND6	STORAGE	0.27	1.34	171.50	0	01:03	1.34	
POND7	STORAGE	0.08	1.36	169.14	0	00:46	1.35	
POND8	STORAGE	0.08	1.59	147.91	0	00:46	1.59	
POND9	STORAGE	0.17	1.59	150.54	0	00:55	1.59	
POND10	STORAGE	0.13	1.37	171.68	0	00:47	1.36	

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CMS	Maximum Total Inflow CMS	Time of Max Occurrence days	hr:min	Lateral Inflow Volume 10^6 ltr	Total Inflow Volume 10^6 ltr	Flow Balance Error Percent	
CH12_PRE	JUNCTION	4.629	4.629	0	01:45	44.1	44.1	0.000	
CH1_1	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH1_2	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH1_3	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH1_4	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH1_5	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH1_6	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH1_7	JUNCTION	0.000	5.745	0	00:35	0	17.4	0.000	
CH1_8	JUNCTION	0.000	5.745	0	00:35	0	17.4	0.000	
CH1_9	JUNCTION	0.000	5.745	0	00:35	0	17.4	0.000	
CH1_10	JUNCTION	0.000	5.745	0	00:35	0	17.4	0.000	
CH1_11	JUNCTION	0.000	5.745	0	00:35	0	17.4	0.000	
CH1_12	JUNCTION	0.000	5.745	0	00:35	0	17.4	0.000	
CH1_13	JUNCTION	0.000	5.745	0	00:35	0	17.4	0.000	
CH1_14	JUNCTION	0.000	5.745	0	00:35	0	17.4	0.000	
CH1_15	JUNCTION	0.000	5.745	0	00:35	0	17.4	0.000	
CH1_16	JUNCTION	0.000	5.745	0	00:35	0	17.4	0.000	
CH1_17	JUNCTION	0.000	5.745	0	00:35	0	17.4	0.000	
CH1_18	JUNCTION	0.000	5.745	0	00:35	0	17.4	0.000	
CH1_19	JUNCTION	0.000	5.745	0	00:35	0	17.4	0.000	
CH1_20	JUNCTION	0.000	5.745	0	00:35	0	17.4	0.000	
CH1_21	JUNCTION	0.000	5.745	0	00:35	0	17.4	0.000	
CH1_22	JUNCTION	0.000	6.656	0	00:36	0	41.7	0.000	
CH1_23	JUNCTION	0.000	6.656	0	00:36	0	41.7	0.000	

CH1_24	JUNCTION	0.000	6.656	0	00:36	0	41.7	0.000	
CH1_25	JUNCTION	0.000	6.656	0	00:36	0	41.7	0.000	
CH1_26	JUNCTION	0.000	6.656	0	00:36	0	41.7	0.000	
CH2_1	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH2_2	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH2_3	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH2_4	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH2_5	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH2_6	JUNCTION	0.000	5.745	0	00:35	0	17.4	0.000	
CH3_1	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_2	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_3	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_4	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_5	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_6	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_7	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_8	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_9	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_10	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_11	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_12	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_13	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_14	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_15	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_16	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_17	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_18	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_19	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_20	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_21	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH3_22	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH4_1	JUNCTION	0.000	2.566	0	00:42	0	8.12	0.000	
CH4_2	JUNCTION	0.000	2.566	0	00:42	0	8.12	0.000	
CH4_3	JUNCTION	0.000	2.566	0	00:42	0	8.12	0.000	
CH4_4	JUNCTION	0.000	2.566	0	00:42	0	8.12	0.000	
CH4_5	JUNCTION	0.000	2.566	0	00:42	0	8.12	0.000	
CH4_6	JUNCTION	0.000	2.566	0	00:42	0	8.12	0.000	
CH4_7	JUNCTION	0.000	2.566	0	00:42	0	8.12	0.000	
CH4_8	JUNCTION	0.000	2.566	0	00:42	0	8.12	0.000	
CH4_9	JUNCTION	0.000	2.566	0	00:42	0	8.12	0.000	
CH4_10	JUNCTION	0.000	2.566	0	00:42	0	8.12	0.000	
CH4_11	JUNCTION	0.000	2.566	0	00:42	0	8.12	0.000	
CH4_12	JUNCTION	0.000	2.566	0	00:42	0	8.12	0.000	

CH4_13	JUNCTION	0.000	2.566	0	00:42	0	8.12	0.000
CH4_14	JUNCTION	0.000	2.566	0	00:42	0	8.12	0.000
CH4_15	JUNCTION	0.000	2.566	0	00:42	0	8.12	0.000
CH4_16	JUNCTION	0.000	3.061	0	00:44	0	12	0.000
CH4_17	JUNCTION	0.000	3.061	0	00:44	0	12	0.000
CH4_18	JUNCTION	0.000	3.061	0	00:44	0	12	0.000
CH4_19	JUNCTION	0.000	3.061	0	00:44	0	12	0.000
CH4_20	JUNCTION	0.000	3.061	0	00:44	0	12	0.000
CH4_21	JUNCTION	0.000	3.061	0	00:44	0	12	0.000
CH4_22	JUNCTION	0.000	4.237	0	00:45	0	18.7	0.000
CH4_23	JUNCTION	0.000	4.237	0	00:45	0	18.7	0.000
CH4_24	JUNCTION	0.000	4.237	0	00:45	0	18.7	0.000
CH4_25	JUNCTION	0.000	4.237	0	00:45	0	18.7	0.000
CH4_26	JUNCTION	0.000	4.237	0	00:45	0	18.7	0.000
CH4_27	JUNCTION	0.000	4.237	0	00:45	0	18.7	0.000
CH4_28	JUNCTION	0.000	4.237	0	00:45	0	18.7	0.000
CH4_29	JUNCTION	0.000	4.518	0	00:46	0	24.2	0.000
CH4_30	JUNCTION	0.000	4.518	0	00:46	0	24.2	0.000
CH4_31	JUNCTION	0.000	4.518	0	00:46	0	24.2	0.000
CH4_32	JUNCTION	0.000	4.518	0	00:46	0	24.2	0.000
CH4_33	JUNCTION	0.000	4.518	0	00:46	0	24.2	0.000
CH4_34	JUNCTION	0.000	4.518	0	00:46	0	24.2	0.000
CH4_35	JUNCTION	0.000	4.518	0	00:46	0	24.2	0.000
CH4_36	JUNCTION	0.000	4.518	0	00:46	0	24.2	0.000
CH4_37	JUNCTION	0.000	4.518	0	00:46	0	24.2	0.000
CH4_38	JUNCTION	0.000	4.518	0	00:46	0	24.2	0.000
CH4_39	JUNCTION	0.000	6.024	0	00:46	0	30.7	0.000
CH4_40	JUNCTION	0.000	6.024	0	00:46	0	30.7	0.000
CH4_41	JUNCTION	0.000	6.024	0	00:46	0	30.7	0.000
CH4_42	JUNCTION	0.000	6.024	0	00:46	0	30.7	0.000
CH4_43	JUNCTION	0.000	6.024	0	00:46	0	30.7	0.000
CH4_44	JUNCTION	0.000	6.024	0	00:46	0	30.7	0.000
CH4_45	JUNCTION	0.000	7.314	0	00:46	0	36.1	0.000
CH4_46	JUNCTION	0.000	7.314	0	00:46	0	36.1	0.000
CH4_47	JUNCTION	0.000	7.314	0	00:46	0	36.1	0.000
CH4_48	JUNCTION	0.000	7.314	0	00:46	0	36.1	0.000
CH4_49	JUNCTION	0.000	7.314	0	00:46	0	36.1	0.000
CH4_50	JUNCTION	0.000	7.870	0	00:47	0	41.4	0.000
CH4_51	JUNCTION	0.000	7.870	0	00:47	0	41.4	0.000
CH4_52	JUNCTION	0.000	7.870	0	00:47	0	41.4	0.000
CH4_53	JUNCTION	0.000	7.870	0	00:47	0	41.4	0.000
CH4_54	JUNCTION	0.000	7.870	0	00:47	0	41.4	0.000
CH4_55	JUNCTION	0.000	7.870	0	00:47	0	41.4	0.000

CH4_56	JUNCTION	0.000	7.870	0	00:47	0	41.4	0.000	
MH1	JUNCTION	0.000	3.021	0	00:34	0	9.13	0.000	
MH2	JUNCTION	0.000	2.735	0	00:36	0	8.26	0.000	
MH3	JUNCTION	2.805	2.805	0	00:35	9.45	9.45	0.000	
MH3.1	JUNCTION	0.000	2.805	0	00:35	0	9.45	0.000	
MH3.3	JUNCTION	0.000	2.566	0	00:42	0	8.12	0.000	
MH4	JUNCTION	0.000	0.560	0	00:50	0	3.91	0.000	
MH4.1	JUNCTION	0.000	0.560	0	00:50	0	3.91	0.000	
CH15_1	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH15_2	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH15_3	JUNCTION	0.000	0.560	0	00:50	0	3.91	0.000	
CH15_4	JUNCTION	0.000	0.560	0	00:50	0	3.91	0.000	
MH5	JUNCTION	0.000	1.237	0	00:50	0	6.63	0.000	
MH6	JUNCTION	0.000	0.426	0	01:03	0	5.54	0.000	
MH7	JUNCTION	0.000	1.507	0	00:46	0	6.54	0.000	
MH8	JUNCTION	0.000	1.291	0	00:46	0	5.37	0.000	
MH9	JUNCTION	0.000	0.657	0	00:55	0	5.27	0.000	
CH4_57	JUNCTION	0.000	7.870	0	00:47	0	41.4	0.000	
CH4_58	JUNCTION	0.000	7.870	0	00:47	0	41.4	0.000	
CH4_59	JUNCTION	0.000	7.870	0	00:47	0	41.4	0.000	
CH4_60	JUNCTION	0.000	8.524	0	00:47	0	44.4	0.000	
MH10	JUNCTION	0.000	0.655	0	00:47	0	3.03	0.000	
MH3.2	JUNCTION	0.000	2.805	0	00:35	0	9.45	0.000	
CH1_PRE	JUNCTION	3.098	3.098	0	02:00	31.6	31.6	0.000	
CH2_PRE	JUNCTION	0.000	3.098	0	02:00	0	31.6	0.000	
CH3_PRE	JUNCTION	0.000	3.098	0	02:00	0	31.6	0.000	
CH4_PRE	JUNCTION	0.000	3.098	0	02:00	0	31.6	0.000	
CH5_PRE	JUNCTION	0.000	3.098	0	02:00	0	31.6	0.000	
CH6_PRE	JUNCTION	0.000	3.098	0	02:00	0	31.6	0.000	
CH7_PRE	JUNCTION	0.000	3.098	0	02:00	0	31.6	0.000	
CH8_PRE	JUNCTION	0.000	3.098	0	02:00	0	31.6	0.000	
CH9_PRE	JUNCTION	0.000	3.098	0	02:00	0	31.6	0.000	
CH10_PRE	JUNCTION	0.000	3.098	0	02:00	0	31.6	0.000	
CH11_PRE	JUNCTION	0.000	3.098	0	02:00	0	31.6	0.000	
CH13_PRE	JUNCTION	0.000	7.676	0	01:50	0	75.7	0.000	
CH14_PRE	JUNCTION	0.000	7.676	0	01:50	0	75.7	0.000	
CH15_PRE	JUNCTION	0.000	7.676	0	01:50	0	75.7	0.000	
CH17_PRE	JUNCTION	1.760	1.760	0	01:40	12.5	12.5	0.000	
CH18_PRE	JUNCTION	0.000	1.760	0	01:40	0	12.5	0.000	
CH19_PRE	JUNCTION	0.000	1.760	0	01:40	0	12.5	0.000	
CH20_PRE	JUNCTION	0.000	1.760	0	01:40	0	12.5	0.000	
CH21_PRE	JUNCTION	0.000	1.760	0	01:40	0	12.5	0.000	
CH22_PRE	JUNCTION	0.000	1.760	0	01:40	0	12.5	0.000	

CH23_PRE	JUNCTION	0.000	1.760	0	01:40	0	12.5	0.000
CH24_PRE	JUNCTION	1.065	2.803	0	01:35	6.19	18.7	0.000
CH25_PRE	JUNCTION	0.000	2.803	0	01:35	0	18.7	0.000
CH26_PRE	JUNCTION	0.000	2.803	0	01:35	0	18.7	0.000
CH27_PRE	JUNCTION	0.000	2.803	0	01:35	0	18.7	0.000
CH28_PRE	JUNCTION	1.297	4.074	0	01:35	10.5	29.2	0.000
CH29_PRE	JUNCTION	0.000	4.074	0	01:35	0	29.2	0.000
CH30_PRE	JUNCTION	0.000	4.074	0	01:35	0	29.2	0.000
CH31_PRE	JUNCTION	1.335	5.410	0	01:35	8.9	38.1	0.000
CH32_PRE	JUNCTION	0.000	5.410	0	01:35	0	38.1	0.000
CH33_PRE	JUNCTION	0.000	5.410	0	01:35	0	38.1	0.000
CH34_PRE	JUNCTION	1.615	7.025	0	01:35	10.3	48.4	0.000
CH35_PRE	JUNCTION	0.000	7.025	0	01:35	0	48.4	0.000
CH36_PRE	JUNCTION	1.271	8.296	0	01:35	8.54	56.9	0.000
CH37_PRE	JUNCTION	0.000	8.296	0	01:35	0	56.9	0.000
CH38_PRE	JUNCTION	0.000	8.296	0	01:35	0	56.9	0.000
CH39_PRE	JUNCTION	1.172	9.463	0	01:35	8.37	65.3	0.000
CH40_PRE	JUNCTION	0.000	9.463	0	01:35	0	65.3	0.000
CH41_PRE	JUNCTION	0.000	9.463	0	01:35	0	65.3	0.000
CH42_PRE	JUNCTION	0.000	9.463	0	01:35	0	65.3	0.000
CH43_PRE	JUNCTION	0.851	10.281	0	01:35	4.67	69.9	0.000
MHOUTPRE0	OUTFALL	0.000	7.676	0	01:50	0	75.7	0.000
MHOUT0	OUTFALL	0.000	6.656	0	00:36	0	41.7	0.000
MHOUTPRE1	OUTFALL	0.000	10.281	0	01:35	0	69.9	0.000
MHOUT1	OUTFALL	0.000	8.524	0	00:47	0	44.4	0.000
POND1	STORAGE	3.058	3.058	0	00:30	9.14	9.14	0.052
POND2	STORAGE	2.909	2.909	0	00:30	8.27	8.27	0.068
MINING_PIT	STORAGE	5.977	8.695	0	00:30	14.9	24.3	0.021
POND3	STORAGE	3.840	3.840	0	00:30	8.12	8.12	0.058
POND4	STORAGE	2.099	2.099	0	00:25	3.91	3.91	0.018
POND5	STORAGE	2.755	2.755	0	00:30	6.64	6.64	0.030
POND6	STORAGE	2.566	2.566	0	00:30	5.54	5.54	0.007
POND7	STORAGE	3.164	3.164	0	00:25	6.54	6.54	0.032
POND8	STORAGE	2.576	2.576	0	00:25	5.38	5.38	0.044
POND9	STORAGE	2.382	2.382	0	00:30	5.27	5.27	0.017
POND10	STORAGE	1.601	1.601	0	00:25	3.03	3.03	0.028

****
Node Flooding Summary
****

No nodes were flooded.

****
Storage Volume Summary
****

Storage Unit	Average Volume 1000 m³	Avg Pcnt Full	Evap Pcnt Loss	Exfil Pcnt Loss	Maximum Volume 1000 m³	Max Pcnt Full	Time of Max Occurrence days	hr:min	Maximum Outflow CMS
POND1	0.016	2.9	0.0	0.0	0.459	84.0	0	00:34	3.021
POND2	0.040	3.4	0.0	0.0	1.012	85.8	0	00:36	2.735
MINING_PIT	1.953	12.4	0.0	0.0	13.218	84.0	0	00:59	2.750
POND3	0.106	3.2	0.0	0.0	2.862	87.1	0	00:42	2.566
POND4	0.221	7.1	0.0	0.0	2.649	85.9	0	00:50	0.560
POND5	0.137	4.2	0.0	0.0	2.758	84.0	0	00:50	1.237
POND6	0.664	14.0	0.0	0.0	4.057	85.5	0	01:03	0.426
POND7	0.151	4.1	0.0	0.0	3.182	86.0	0	00:46	1.507
POND8	0.091	3.3	0.0	0.0	2.300	83.1	0	00:46	1.291
POND9	0.289	7.4	0.0	0.0	3.226	83.1	0	00:55	0.657
POND10	0.152	7.2	0.0	0.0	1.851	87.8	0	00:47	0.655

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CMS	Max Flow CMS	Total Volume 10^6 ltr
MHOUTPRE0	71.21	1.235	7.676	75.707
MHOUT0	99.63	0.486	6.656	41.685
MHOUTPRE1	41.46	1.960	10.281	69.947
MHOUT1	99.63	0.518	8.524	44.410
System	77.98	4.198	24.668	231.750

****
Link Flow Summary

****

Link	Type	Maximum |Flow| CMS	Time of Max Occurrence days	hr:min	Maximum |Veloc| m/sec	Max/ Full Flow	Max/ Full Depth
LCH1_1	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH1_2	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH1_3	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH1_4	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH1_5	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH1_6	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH1_7	CONDUIT	5.745	0	00:35	1.66	0.51	0.69
LCH1_8	CONDUIT	5.745	0	00:35	1.66	0.51	0.69
LCH1_9	CONDUIT	5.745	0	00:35	3.41	0.17	0.36
LCH1_10	CONDUIT	5.745	0	00:35	3.44	0.17	0.36
LCH1_11	CONDUIT	5.745	0	00:35	3.08	0.20	0.40
LCH1_12	CONDUIT	5.745	0	00:35	2.83	0.23	0.43
LCH1_13	CONDUIT	5.745	0	00:35	2.51	0.28	0.48
LCH1_14	CONDUIT	5.745	0	00:35	1.66	0.51	0.69
LCH1_15	CONDUIT	5.745	0	00:35	3.30	0.18	0.37
LCH1_16	CONDUIT	5.745	0	00:35	3.23	0.19	0.38
LCH1_17	CONDUIT	5.745	0	00:35	1.66	0.51	0.69
LCH1_18	CONDUIT	5.745	0	00:35	1.66	0.51	0.69
LCH1_19	CONDUIT	5.745	0	00:35	3.55	0.16	0.35
LCH1_20	CONDUIT	5.745	0	00:35	3.17	0.19	0.39
LCH1_21	CONDUIT	5.745	0	00:35	10.15	0.03	0.13
LCH1_22	CONDUIT	6.656	0	00:36	2.20	0.42	0.61
LCH1_23	CONDUIT	6.656	0	00:36	1.75	0.59	0.75
LCH1_24	CONDUIT	6.656	0	00:36	1.74	0.60	0.75
LCH1_25	CONDUIT	6.656	0	00:36	1.75	0.59	0.75
LCH1_26	CONDUIT	6.656	0	00:36	1.75	0.60	0.75
LCH2_1	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH2_2	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH2_3	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH2_4	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH2_5	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH2_6	CONDUIT	5.745	0	00:35	2.34	0.31	0.51
LCH3_1	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_2	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_4	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_5	CONDUIT	0.000	0	00:00	0.00	0.00	0.00

LCH3_6	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_7	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_8	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_9	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_10	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_11	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_12	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_13	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_14	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_15	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_16	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_17	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_18	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_19	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_20	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_21	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_22	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH4_1	CONDUIT	2.566	0	00:42	3.58	0.04	0.16
LCH4_2	CONDUIT	2.566	0	00:42	3.29	0.05	0.18
LCH4_3	CONDUIT	2.566	0	00:42	2.98	0.06	0.20
LCH4_4	CONDUIT	2.566	0	00:42	3.30	0.05	0.18
LCH4_5	CONDUIT	2.566	0	00:42	4.41	0.03	0.13
LCH4_6	CONDUIT	2.566	0	00:42	1.27	0.23	0.43
LCH4_7	CONDUIT	2.566	0	00:42	1.27	0.23	0.43
LCH4_8	CONDUIT	2.566	0	00:42	1.27	0.23	0.43
LCH4_9	CONDUIT	2.566	0	00:42	1.27	0.23	0.43
LCH4_10	CONDUIT	2.566	0	00:42	1.65	0.15	0.34
LCH4_11	CONDUIT	2.566	0	00:42	1.27	0.23	0.43
LCH4_12	CONDUIT	2.566	0	00:42	1.54	0.17	0.36
LCH4_13	CONDUIT	2.566	0	00:42	1.27	0.23	0.43
LCH4_14	CONDUIT	2.566	0	00:42	1.89	0.12	0.30
LCH4_15	CONDUIT	2.566	0	00:42	1.75	0.14	0.32
LCH4_16	CONDUIT	3.061	0	00:44	1.35	0.27	0.48
LCH4_17	CONDUIT	3.061	0	00:44	2.20	0.13	0.31
LCH4_18	CONDUIT	3.061	0	00:44	1.35	0.27	0.48
LCH4_19	CONDUIT	3.061	0	00:44	1.46	0.24	0.44
LCH4_20	CONDUIT	3.061	0	00:44	1.35	0.27	0.48
LCH4_21	CONDUIT	3.061	0	00:44	1.50	0.23	0.43
LCH4_22	CONDUIT	4.237	0	00:45	2.67	0.16	0.34
LCH4_23	CONDUIT	4.237	0	00:45	2.54	0.17	0.36
LCH4_24	CONDUIT	4.237	0	00:45	3.14	0.12	0.30
LCH4_25	CONDUIT	4.237	0	00:45	2.73	0.15	0.34
LCH4_26	CONDUIT	4.237	0	00:45	1.98	0.25	0.45

LCH4_27	CONDUIT	4.237	0	00:45	2.02	0.24	0.44
LCH4_28	CONDUIT	4.237	0	00:45	1.79	0.29	0.49
LCH4_29	CONDUIT	4.518	0	00:46	1.98	0.28	0.48
LCH4_30	CONDUIT	4.518	0	00:46	1.54	0.40	0.60
LCH4_31	CONDUIT	4.518	0	00:46	1.54	0.40	0.60
LCH4_32	CONDUIT	4.518	0	00:46	1.54	0.40	0.60
LCH4_33	CONDUIT	4.518	0	00:46	1.54	0.40	0.60
LCH4_34	CONDUIT	4.518	0	00:46	1.54	0.40	0.60
LCH4_35	CONDUIT	4.518	0	00:46	2.73	0.17	0.36
LCH4_36	CONDUIT	4.518	0	00:46	3.61	0.11	0.28
LCH4_37	CONDUIT	4.518	0	00:46	2.18	0.24	0.44
LCH4_38	CONDUIT	4.518	0	00:46	1.54	0.40	0.60
LCH4_39	CONDUIT	6.024	0	00:46	2.93	0.24	0.44
LCH4_40	CONDUIT	6.024	0	00:46	1.69	0.54	0.70
LCH4_42	CONDUIT	6.024	0	00:46	1.69	0.54	0.70
LCH4_43	CONDUIT	6.024	0	00:46	1.69	0.54	0.70
LCH4_44	CONDUIT	6.024	0	00:46	2.43	0.31	0.51
LCH4_45	CONDUIT	7.314	0	00:46	1.80	0.44	0.63
LCH4_46	CONDUIT	7.314	0	00:46	1.80	0.44	0.63
LCH4_47	CONDUIT	7.314	0	00:46	1.80	0.44	0.63
LCH4_48	CONDUIT	7.314	0	00:46	1.80	0.44	0.63
LCH4_49	CONDUIT	7.314	0	00:46	1.80	0.31	0.52
LCH4_50	CONDUIT	7.870	0	00:47	3.90	0.11	0.29
LCH4_51	CONDUIT	7.870	0	00:47	2.22	0.25	0.47
LCH4_52	CONDUIT	7.870	0	00:47	2.95	0.17	0.37
LCH4_53	CONDUIT	7.870	0	00:47	2.84	0.37	0.57
LCH4_54	CONDUIT	7.870	0	00:47	2.33	0.50	0.67
LCH4_55	CONDUIT	7.870	0	00:47	2.14	0.38	0.58
LCH4_56	CONDUIT	7.870	0	00:47	1.84	0.34	0.55
LCH3_3	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH4_41	CONDUIT	6.024	0	00:46	1.69	0.54	0.70
LMH1	CONDUIT	3.021	0	00:34	9.79	0.86	0.71
LMH2	CONDUIT	2.735	0	00:36	8.21	0.75	0.65
LMH3	CONDUIT	2.805	0	00:35	13.40	0.69	0.61
LMH3.1	CONDUIT	2.805	0	00:35	11.88	0.61	0.57
LMH3.3	CONDUIT	2.566	0	00:42	7.55	0.77	0.66
LMH4	CONDUIT	0.560	0	00:50	9.54	0.21	0.31
LCH15_1	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH15_2	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH15_3	CONDUIT	0.560	0	00:50	0.73	0.05	0.17
LCH15_4	CONDUIT	0.560	0	00:50	1.96	0.01	0.07
LMH4.1	CONDUIT	0.560	0	00:50	7.80	0.27	0.36
LMH5	CONDUIT	1.237	0	00:50	9.99	0.57	0.54

LMH6	CONDUIT	0.426	0	01:03	9.14	0.15	0.26
LMH7	CONDUIT	1.507	0	00:46	11.76	0.60	0.56
LMH8	CONDUIT	1.291	0	00:46	10.43	0.57	0.54
LMH9	CONDUIT	0.657	0	00:55	8.53	0.30	0.38
LCH4_57	CONDUIT	7.870	0	00:47	3.06	0.33	0.53
LCH4_58	CONDUIT	7.870	0	00:47	1.84	0.47	0.66
LCH4_59	CONDUIT	7.870	0	00:47	2.55	0.44	0.62
LCH4_60	CONDUIT	8.524	0	00:47	2.67	0.46	0.64
LMH10	CONDUIT	0.655	0	00:47	10.71	0.36	0.42
LMH3.2	CONDUIT	2.805	0	00:35	12.24	0.77	0.66
LCH1_PRE	CONDUIT	3.098	0	02:00	2.30	0.12	0.30
LCH2_PRE	CONDUIT	3.098	0	02:00	3.69	0.06	0.19
LMHOUTPRE3	CONDUIT	3.098	0	02:00	4.18	0.05	0.17
LMHOUTPRE4	CONDUIT	3.098	0	02:00	3.94	0.05	0.18
LMHOUTPRE5	CONDUIT	3.098	0	02:00	3.42	0.07	0.20
LMHOUTPRE6	CONDUIT	3.098	0	02:00	2.30	0.12	0.30
LMHOUTPRE7	CONDUIT	3.098	0	02:00	4.25	0.05	0.17
LMHOUTPRE8	CONDUIT	3.098	0	02:00	2.30	0.12	0.30
LMHOUTPRE9	CONDUIT	3.098	0	02:00	2.31	0.12	0.30
LMHOUTPRE10	CONDUIT	3.098	0	02:00	4.55	0.04	0.16
LMHOUTPRE11	CONDUIT	3.098	0	02:00	8.79	0.01	0.08
LMHOUTPRE12	CONDUIT	7.676	0	01:50	3.17	0.30	0.50
LMHOUTPRE13	CONDUIT	7.676	0	01:50	3.17	0.30	0.50
KOUTPRE1	CONDUIT	7.676	0	01:50	3.17	0.30	0.50
LMHOUTPRE16	CONDUIT	4.629	0	01:45	2.66	0.18	0.38
LCH17_PRE	CONDUIT	1.760	0	01:40	4.80	0.03	0.11
LCH18_PRE	CONDUIT	1.760	0	01:40	5.20	0.02	0.11
LCH19_PRE	CONDUIT	1.760	0	01:40	3.61	0.04	0.15
LCH20_PRE	CONDUIT	1.760	0	01:40	1.87	0.12	0.28
LCH21_PRE	CONDUIT	1.760	0	01:40	2.07	0.10	0.26
LCH22_PRE	CONDUIT	1.760	0	01:40	2.91	0.06	0.19
LCH23_PRE	CONDUIT	1.760	0	01:40	1.87	0.12	0.28
LCH24_PRE	CONDUIT	2.803	0	01:35	3.33	0.10	0.25
LCH25_PRE	CONDUIT	2.803	0	01:35	3.28	0.10	0.26
LCH26_PRE	CONDUIT	2.803	0	01:35	2.72	0.13	0.31
LCH27_PRE	CONDUIT	2.803	0	01:35	2.22	0.18	0.37
LCH28_PRE	CONDUIT	4.074	0	01:35	4.54	0.11	0.27
LCH29_PRE	CONDUIT	4.074	0	01:35	3.78	0.14	0.32
LCH30_PRE	CONDUIT	4.074	0	01:35	3.66	0.15	0.33
LCH31_PRE	CONDUIT	5.410	0	01:35	3.26	0.28	0.48
LCH32_PRE	CONDUIT	5.410	0	01:35	2.81	0.35	0.55
LCH33_PRE	CONDUIT	5.410	0	01:35	4.85	0.15	0.33
LCH34_PRE	CONDUIT	7.025	0	01:35	4.51	0.25	0.45

LCH35_PRE	CONDUIT	7.025	0	01:35	3.07	0.46	0.64
LCH36_PRE	CONDUIT	8.296	0	01:35	4.70	0.31	0.51
LCH37_PRE	CONDUIT	8.296	0	01:35	3.25	0.54	0.70
LCH38_PRE	CONDUIT	8.296	0	01:35	3.25	0.54	0.70
LCH39_PRE	CONDUIT	9.463	0	01:35	6.00	0.26	0.46
LCH40_PRE	CONDUIT	9.463	0	01:35	4.17	0.45	0.63
LCH41_PRE	CONDUIT	9.463	0	01:35	4.34	0.43	0.61
LCH42_PRE	CONDUIT	9.463	0	01:35	4.21	0.45	0.63
KOUTPRE0	CONDUIT	10.281	0	01:35	6.02	0.29	0.49
10yr1	ORIFICE	1.931	0	00:34			0.00
50yr1	ORIFICE	1.091	0	00:34			0.00
10yr2	ORIFICE	1.615	0	00:36			0.00
50yr2	ORIFICE	1.119	0	00:36			0.00
10yrMP	ORIFICE	1.052	0	00:59			0.00
50yrMP	ORIFICE	1.697	0	00:59			0.00
10yr3	ORIFICE	1.550	0	00:42			0.00
50yr3	ORIFICE	1.015	0	00:42			0.00
10yr4	ORIFICE	0.333	0	00:50			0.00
50yr4	ORIFICE	0.227	0	00:50			0.00
10yr5	ORIFICE	1.085	0	00:50			0.00
50yr5	ORIFICE	0.152	0	00:50			0.00
10yr6	ORIFICE	0.243	0	01:03			0.00
50yr6	ORIFICE	0.183	0	01:03			0.00
10yr7	ORIFICE	1.018	0	00:46			0.00
50yr7	ORIFICE	0.488	0	00:46			0.00
10yr8	ORIFICE	1.066	0	00:46			0.00
50yr8	ORIFICE	0.225	0	00:46			0.00
10yr9	ORIFICE	0.443	0	00:55			0.00
50yr9	ORIFICE	0.214	0	00:55			0.00
10yr10	ORIFICE	0.245	0	00:47			0.00
50yr10	ORIFICE	0.410	0	00:47			0.00
100yrWeir1	WEIR	0.000	0	00:00			0.00
100yrWeir2	WEIR	0.000	0	00:00			0.00
100yrWeir3	WEIR	0.000	0	00:00			0.00
100yrWeir4	WEIR	0.000	0	00:00			0.00
100yrWeir5	WEIR	0.000	0	00:00			0.00
100yrWeir6	WEIR	0.000	0	00:00			0.00
100yrWeir7	WEIR	0.000	0	00:00			0.00
100yrWeir8	WEIR	0.000	0	00:00			0.00
100yrWeir9	WEIR	0.000	0	00:00			0.00
100yrWeir10	WEIR	0.000	0	00:00			0.00
100yrWeirMP	WEIR	0.000	0	00:59			0.00

```
************************
Conduit Surcharge Summary
************************

No conduits were surcharged.


Analysis begun on:  Mon Jul 27 09:17:25 2026
Analysis ended on:  Mon Jul 27 09:17:26 2026
Total elapsed time: 00:00:01
```

ANNEXURE G3: RUNOFF DETERMINATION CALCULATIONS 1:100-YEAR

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.2 (Build 5.2.4)

****
Analysis Options
****
Flow Units ..... CMS
Process Models:
  Rainfall/Runoff ..... YES
  RDII ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... GREEN_AMPT
Flow Routing Method ..... STEADY
Starting Date 01/01/2010 00:00:00
Ending Date 01/01/2010 23:55:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 5.00 sec

********** Volume Depth
Runoff Quantity Continuity hectare-m mm
********** --------- -------
Total Precipitation 41.917 70.276
Evaporation Loss 0.000 0.000
Infiltration Loss 9.332 15.645
Surface Runoff 32.482 54.457

Final Storage	0.189	0.317
Continuity Error (%)	-0.203	

**************************	Volume	Volume
Flow Routing Continuity	hectare-m	10^6 ltr
**************************	---------	---------
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	32.482	324.820
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	32.476	324.765
Flooding Loss	0.000	0.000
Evaporation Loss	0.000	0.000
Exfiltration Loss	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.001	0.007
Continuity Error (%)	0.015	

****
Highest Flow Instability Indexes
****
All links are stable.

****
Routing Time Step Summary
****

Minimum Time Step	:	5.00 sec
Average Time Step	:	5.00 sec
Maximum Time Step	:	5.00 sec
% of Time in Steady State	:	0.00
Average Iterations per Step	:	1.00

% of Steps Not Converging : 0.00

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip mm	Total Runon mm	Total Evap mm	Total Infil mm	Imperv Runoff mm	Perv Runoff mm	Total Runoff mm	Total Runoff 10^6 ltr	Peak Runoff CMS	Runoff Coeff
C_POST1	44.85	0.00	0.00	11.67	21.02	11.81	32.82	11.53	3.88	0.732
C_POST2	44.85	0.00	0.00	11.02	21.40	12.05	33.45	10.41	3.68	0.746
C_POST3	44.85	0.00	0.00	12.93	20.90	10.72	31.62	11.97	3.55	0.705
C_POST4	44.85	0.00	0.00	12.49	19.52	12.69	32.21	10.08	3.40	0.718
C_POST5	44.85	0.00	0.00	6.97	23.90	13.93	37.83	8.51	4.29	0.843
C_POST6	44.85	0.00	0.00	5.15	29.82	9.44	39.25	9.94	4.76	0.875
C_POST7	44.85	0.00	0.00	4.71	29.80	10.22	40.02	4.77	2.61	0.892
C_POST8	44.85	0.00	0.00	7.47	26.22	10.91	37.12	8.20	3.45	0.828
C_POST9	44.85	0.00	0.00	6.30	27.22	11.16	38.37	6.81	3.22	0.856
C_POST10	44.85	0.00	0.00	5.24	29.46	9.97	39.43	8.00	3.97	0.879
C_POST11	44.85	0.00	0.00	6.05	27.45	11.19	38.64	6.60	3.23	0.862
C_POST12	44.85	0.00	0.00	6.57	26.98	11.11	38.09	6.48	2.96	0.849
C_POST13	44.85	0.00	0.00	3.24	34.13	7.27	41.39	3.67	2.00	0.923
C_PRE1	107.66	0.00	0.00	25.86	10.63	71.06	81.69	28.70	2.96	0.759
C_PRE2	107.66	0.00	0.00	25.34	10.63	71.59	82.22	25.58	2.72	0.764
C_PRE3	107.66	0.00	0.00	28.12	10.63	68.80	79.42	30.05	2.74	0.738
C_PRE4	107.66	0.00	0.00	26.95	10.63	69.97	80.60	25.22	2.45	0.749
C_PRE5	107.66	0.00	0.00	17.52	10.63	79.45	90.08	20.27	3.41	0.837
C_PRE6	82.25	0.00	0.00	20.02	8.09	54.05	62.13	15.74	2.27	0.755
C_PRE7	82.25	0.00	0.00	17.25	8.09	56.83	64.92	7.74	1.35	0.789
C_PRE8	82.25	0.00	0.00	21.90	8.09	52.15	60.24	13.31	1.69	0.732
C_PRE9	82.25	0.00	0.00	19.14	8.09	54.93	63.02	11.19	1.71	0.766
C_PRE10	82.25	0.00	0.00	18.51	8.09	55.56	63.65	12.91	2.07	0.774

C_PRE11	82.25	0.00	0.00	19.25	8.09	54.81	62.90	10.74	1.63	0.765
C_PRE12	82.25	0.00	0.00	20.12	8.09	53.94	62.03	10.56	1.51	0.754
C_PRE13	82.25	0.00	0.00	16.51	8.09	57.58	65.67	5.82	1.07	0.798

****
Node Depth Summary
****

Node	Type	Average Depth Meters	Maximum Depth Meters	Maximum HGL Meters	Time of Max Occurrence days hr:min	Reported Max Depth Meters
CH12_PRE	JUNCTION	0.07	0.42	131.03	0 01:45	0.42
CH1_1	JUNCTION	0.00	0.00	192.52	0 00:00	0.00
CH1_2	JUNCTION	0.00	0.00	189.28	0 00:00	0.00
CH1_3	JUNCTION	0.00	0.00	186.99	0 00:00	0.00
CH1_4	JUNCTION	0.00	0.00	185.99	0 00:00	0.00
CH1_5	JUNCTION	0.00	0.00	182.42	0 00:00	0.00
CH1_6	JUNCTION	0.00	0.00	177.55	0 00:00	0.00
CH1_7	JUNCTION	0.04	0.63	176.75	0 00:32	0.63
CH1_8	JUNCTION	0.04	0.63	176.45	0 00:32	0.63
CH1_9	JUNCTION	0.04	0.63	176.00	0 00:32	0.63
CH1_10	JUNCTION	0.02	0.34	169.55	0 00:32	0.34
CH1_11	JUNCTION	0.02	0.37	168.47	0 00:32	0.37
CH1_12	JUNCTION	0.03	0.40	167.55	0 00:32	0.40
CH1_13	JUNCTION	0.03	0.44	166.61	0 00:32	0.44
CH1_14	JUNCTION	0.04	0.63	165.97	0 00:32	0.63
CH1_15	JUNCTION	0.04	0.63	165.78	0 00:32	0.63
CH1_16	JUNCTION	0.02	0.36	163.66	0 00:32	0.35
CH1_17	JUNCTION	0.04	0.63	162.56	0 00:32	0.63
CH1_18	JUNCTION	0.04	0.63	162.29	0 00:32	0.63
CH1_19	JUNCTION	0.04	0.63	162.02	0 00:32	0.63
CH1_20	JUNCTION	0.02	0.36	160.56	0 00:32	0.36

CH1_21	JUNCTION	0.02	0.36	158.68	0	00:32	0.36
CH1_22	JUNCTION	0.07	0.65	129.08	0	00:46	0.64
CH1_23	JUNCTION	0.09	0.79	128.60	0	00:46	0.78
CH1_24	JUNCTION	0.09	0.79	128.17	0	00:46	0.78
CH1_25	JUNCTION	0.09	0.79	127.89	0	00:46	0.78
CH1_26	JUNCTION	0.09	0.79	127.57	0	00:46	0.78
CH2_1	JUNCTION	0.00	0.00	182.61	0	00:00	0.00
CH2_2	JUNCTION	0.00	0.00	181.32	0	00:00	0.00
CH2_3	JUNCTION	0.00	0.00	180.70	0	00:00	0.00
CH2_4	JUNCTION	0.00	0.00	177.64	0	00:00	0.00
CH2_5	JUNCTION	0.00	0.00	176.79	0	00:00	0.00
CH2_6	JUNCTION	0.05	0.56	177.06	0	00:31	0.56
CH3_1	JUNCTION	0.00	0.00	197.04	0	00:00	0.00
CH3_2	JUNCTION	0.00	0.00	194.58	0	00:00	0.00
CH3_3	JUNCTION	0.00	0.00	189.61	0	00:00	0.00
CH3_4	JUNCTION	0.00	0.00	187.06	0	00:00	0.00
CH3_5	JUNCTION	0.00	0.00	182.43	0	00:00	0.00
CH3_6	JUNCTION	0.00	0.00	179.03	0	00:00	0.00
CH3_7	JUNCTION	0.00	0.00	172.87	0	00:00	0.00
CH3_8	JUNCTION	0.00	0.00	172.67	0	00:00	0.00
CH3_9	JUNCTION	0.00	0.00	172.17	0	00:00	0.00
CH3_10	JUNCTION	0.00	0.00	170.17	0	00:00	0.00
CH3_11	JUNCTION	0.00	0.00	170.09	0	00:00	0.00
CH3_12	JUNCTION	0.00	0.00	168.75	0	00:00	0.00
CH3_13	JUNCTION	0.00	0.00	167.76	0	00:00	0.00
CH3_14	JUNCTION	0.00	0.00	167.27	0	00:00	0.00
CH3_15	JUNCTION	0.00	0.00	166.71	0	00:00	0.00
CH3_16	JUNCTION	0.00	0.00	164.44	0	00:00	0.00
CH3_17	JUNCTION	0.00	0.00	164.03	0	00:00	0.00
CH3_18	JUNCTION	0.00	0.00	162.48	0	00:00	0.00
CH3_19	JUNCTION	0.00	0.00	162.35	0	00:00	0.00
CH3_20	JUNCTION	0.00	0.00	161.90	0	00:00	0.00
CH3_21	JUNCTION	0.00	0.00	160.59	0	00:00	0.00
CH3_22	JUNCTION	0.00	0.00	158.86	0	00:00	0.00
CH4_1	JUNCTION	0.04	0.58	178.97	0	00:38	0.58

CH4_2	JUNCTION	0.01	0.18	174.78	0	00:38	0.18
CH4_3	JUNCTION	0.01	0.19	170.85	0	00:38	0.19
CH4_4	JUNCTION	0.01	0.19	167.97	0	00:38	0.19
CH4_5	JUNCTION	0.01	0.18	164.65	0	00:38	0.18
CH4_6	JUNCTION	0.02	0.43	158.65	0	00:38	0.42
CH4_7	JUNCTION	0.02	0.43	158.17	0	00:38	0.42
CH4_8	JUNCTION	0.02	0.43	157.86	0	00:38	0.42
CH4_9	JUNCTION	0.02	0.43	157.42	0	00:38	0.42
CH4_10	JUNCTION	0.02	0.43	156.82	0	00:38	0.42
CH4_11	JUNCTION	0.02	0.43	155.60	0	00:38	0.42
CH4_12	JUNCTION	0.02	0.43	155.14	0	00:38	0.42
CH4_13	JUNCTION	0.02	0.43	154.29	0	00:38	0.42
CH4_14	JUNCTION	0.02	0.43	153.93	0	00:38	0.42
CH4_15	JUNCTION	0.02	0.32	152.64	0	00:38	0.32
CH4_16	JUNCTION	0.03	0.47	152.13	0	00:40	0.47
CH4_17	JUNCTION	0.03	0.47	151.86	0	00:40	0.47
CH4_18	JUNCTION	0.03	0.47	150.90	0	00:40	0.47
CH4_19	JUNCTION	0.03	0.47	150.69	0	00:40	0.47
CH4_20	JUNCTION	0.03	0.47	150.12	0	00:40	0.47
CH4_21	JUNCTION	0.03	0.47	149.77	0	00:40	0.47
CH4_22	JUNCTION	0.04	0.43	149.45	0	00:40	0.43
CH4_23	JUNCTION	0.03	0.36	147.68	0	00:42	0.36
CH4_24	JUNCTION	0.03	0.36	146.32	0	00:42	0.36
CH4_25	JUNCTION	0.02	0.34	143.25	0	00:42	0.34
CH4_26	JUNCTION	0.03	0.45	141.33	0	00:42	0.45
CH4_27	JUNCTION	0.03	0.45	140.39	0	00:42	0.45
CH4_28	JUNCTION	0.04	0.50	139.58	0	00:42	0.49
CH4_29	JUNCTION	0.05	0.50	139.06	0	00:42	0.49
CH4_30	JUNCTION	0.06	0.61	138.52	0	00:43	0.60
CH4_31	JUNCTION	0.06	0.61	138.27	0	00:43	0.60
CH4_32	JUNCTION	0.06	0.61	138.11	0	00:43	0.60
CH4_33	JUNCTION	0.06	0.61	137.82	0	00:43	0.60
CH4_34	JUNCTION	0.06	0.60	137.59	0	00:43	0.60
CH4_35	JUNCTION	0.06	0.60	137.22	0	00:43	0.60
CH4_36	JUNCTION	0.03	0.36	135.56	0	00:43	0.36

CH4_37	JUNCTION	0.04	0.45	132.10	0	00:43	0.45
CH4_38	JUNCTION	0.06	0.60	131.54	0	00:43	0.60
CH4_39	JUNCTION	0.06	0.60	131.34	0	00:43	0.60
CH4_40	JUNCTION	0.06	0.72	130.32	0	00:43	0.71
CH4_41	JUNCTION	0.06	0.72	130.02	0	00:43	0.71
CH4_42	JUNCTION	0.06	0.72	129.83	0	00:43	0.71
CH4_43	JUNCTION	0.06	0.72	129.54	0	00:43	0.71
CH4_44	JUNCTION	0.06	0.72	129.13	0	00:43	0.71
CH4_45	JUNCTION	0.07	0.80	128.51	0	00:43	0.79
CH4_46	JUNCTION	0.07	0.80	128.20	0	00:43	0.79
CH4_47	JUNCTION	0.07	0.80	127.98	0	00:43	0.79
CH4_48	JUNCTION	0.07	0.80	127.68	0	00:43	0.79
CH4_49	JUNCTION	0.07	0.80	127.56	0	00:43	0.79
CH4_50	JUNCTION	0.07	0.80	126.83	0	00:43	0.79
CH4_51	JUNCTION	0.06	0.71	124.05	0	00:44	0.71
CH4_52	JUNCTION	0.06	0.71	123.59	0	00:44	0.71
CH4_53	JUNCTION	0.05	0.58	122.58	0	00:44	0.58
CH4_54	JUNCTION	0.06	0.69	121.70	0	00:44	0.69
CH4_55	JUNCTION	0.07	0.74	121.26	0	00:44	0.74
CH4_56	JUNCTION	0.08	0.84	121.06	0	00:44	0.83
MH1	JUNCTION	0.04	0.56	184.28	0	00:31	0.56
MH2	JUNCTION	0.04	0.55	179.79	0	00:33	0.55
MH3	JUNCTION	0.04	0.47	170.78	0	00:35	0.47
MH3.1	JUNCTION	0.04	0.47	164.83	0	00:35	0.47
MH3.3	JUNCTION	0.04	0.58	181.28	0	00:38	0.58
MH4	JUNCTION	0.02	0.18	174.16	0	00:46	0.18
MH4.1	JUNCTION	0.03	0.26	163.09	0	00:46	0.26
CH15_1	JUNCTION	0.00	0.00	158.24	0	00:00	0.00
CH15_2	JUNCTION	0.00	0.00	155.91	0	00:00	0.00
CH15_3	JUNCTION	0.03	0.26	155.85	0	00:46	0.26
CH15_4	JUNCTION	0.02	0.19	155.68	0	00:46	0.19
MH5	JUNCTION	0.03	0.33	162.16	0	00:46	0.33
MH6	JUNCTION	0.04	0.17	161.13	0	00:54	0.17
MH7	JUNCTION	0.03	0.34	141.71	0	00:42	0.34
MH8	JUNCTION	0.02	0.33	135.46	0	00:42	0.33

MH9	JUNCTION	0.03	0.25	134.40	0	00:49	0.25
CH4_57	JUNCTION	0.08	0.84	120.85	0	00:44	0.83
CH4_58	JUNCTION	0.08	0.84	120.10	0	00:44	0.83
CH4_59	JUNCTION	0.08	0.84	119.85	0	00:44	0.83
CH4_60	JUNCTION	0.06	0.66	118.96	0	00:44	0.65
MH10	JUNCTION	0.02	0.21	138.24	0	00:43	0.20
MH3.2	JUNCTION	0.04	0.52	155.46	0	00:35	0.52
CH1_PRE	JUNCTION	0.06	0.34	176.63	0	01:55	0.34
CH2_PRE	JUNCTION	0.06	0.34	176.19	0	01:55	0.34
CH3_PRE	JUNCTION	0.04	0.22	172.00	0	01:55	0.22
CH4_PRE	JUNCTION	0.03	0.21	168.82	0	01:55	0.21
CH5_PRE	JUNCTION	0.04	0.23	167.13	0	01:55	0.23
CH6_PRE	JUNCTION	0.06	0.34	165.92	0	01:55	0.34
CH7_PRE	JUNCTION	0.06	0.34	165.73	0	01:55	0.34
CH8_PRE	JUNCTION	0.06	0.34	162.04	0	01:55	0.34
CH9_PRE	JUNCTION	0.06	0.34	161.79	0	01:55	0.34
CH10_PRE	JUNCTION	0.06	0.34	161.56	0	01:55	0.34
CH11_PRE	JUNCTION	0.03	0.18	158.63	0	01:55	0.18
CH13_PRE	JUNCTION	0.09	0.57	130.50	0	01:50	0.57
CH14_PRE	JUNCTION	0.09	0.57	129.97	0	01:50	0.57
CH15_PRE	JUNCTION	0.09	0.57	129.31	0	01:50	0.57
CH17_PRE	JUNCTION	0.01	0.08	173.54	0	01:35	0.08
CH18_PRE	JUNCTION	0.01	0.08	167.40	0	01:35	0.08
CH19_PRE	JUNCTION	0.01	0.11	162.51	0	01:35	0.11
CH20_PRE	JUNCTION	0.02	0.20	158.79	0	01:35	0.20
CH21_PRE	JUNCTION	0.02	0.20	157.47	0	01:35	0.20
CH22_PRE	JUNCTION	0.02	0.18	156.01	0	01:35	0.18
CH23_PRE	JUNCTION	0.02	0.20	153.87	0	01:35	0.20
CH24_PRE	JUNCTION	0.02	0.20	153.31	0	01:35	0.20
CH25_PRE	JUNCTION	0.02	0.18	151.39	0	01:30	0.18
CH26_PRE	JUNCTION	0.02	0.21	150.24	0	01:30	0.21
CH27_PRE	JUNCTION	0.03	0.26	149.12	0	01:30	0.26
CH28_PRE	JUNCTION	0.03	0.26	148.80	0	01:30	0.26
CH29_PRE	JUNCTION	0.03	0.22	144.06	0	01:35	0.22
CH30_PRE	JUNCTION	0.03	0.23	142.03	0	01:35	0.23

CH31_PRE	JUNCTION	0.04	0.33	139.24	0	01:35	0.33
CH32_PRE	JUNCTION	0.04	0.38	138.19	0	01:35	0.38
CH33_PRE	JUNCTION	0.04	0.38	137.22	0	01:35	0.38
CH34_PRE	JUNCTION	0.03	0.31	133.29	0	01:35	0.31
CH35_PRE	JUNCTION	0.05	0.44	129.98	0	01:35	0.44
CH36_PRE	JUNCTION	0.05	0.44	129.32	0	01:35	0.44
CH37_PRE	JUNCTION	0.05	0.49	127.50	0	01:35	0.49
CH38_PRE	JUNCTION	0.05	0.49	127.20	0	01:35	0.49
CH39_PRE	JUNCTION	0.05	0.49	126.46	0	01:35	0.49
CH40_PRE	JUNCTION	0.05	0.44	122.46	0	01:35	0.44
CH41_PRE	JUNCTION	0.05	0.44	121.15	0	01:35	0.44
CH42_PRE	JUNCTION	0.05	0.44	120.34	0	01:35	0.44
CH43_PRE	JUNCTION	0.05	0.44	119.34	0	01:35	0.44
MHOUTPRE0	OUTFALL	0.09	0.57	129.08	0	01:50	0.57
MHOUT0	OUTFALL	0.09	0.79	127.30	0	00:46	0.78
MHOUTPRE1	OUTFALL	0.04	0.34	117.83	0	01:35	0.34
MHOUT1	OUTFALL	0.06	0.66	118.35	0	00:44	0.65
POND1	STORAGE	0.07	1.43	188.37	0	00:31	1.42
POND2	STORAGE	0.07	1.44	183.67	0	00:33	1.44
MINING_PIT	STORAGE	0.89	4.75	133.90	0	00:48	4.74
POND3	STORAGE	0.07	1.48	185.82	0	00:38	1.48
POND4	STORAGE	0.16	1.50	185.39	0	00:46	1.49
POND5	STORAGE	0.09	1.50	167.44	0	00:46	1.50
POND6	STORAGE	0.29	1.48	171.64	0	00:54	1.48
POND7	STORAGE	0.09	1.48	169.26	0	00:42	1.48
POND8	STORAGE	0.09	1.78	148.10	0	00:42	1.77
POND9	STORAGE	0.19	1.76	150.72	0	00:49	1.76
POND10	STORAGE	0.14	1.48	171.80	0	00:43	1.48

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CMS	Maximum Total Inflow CMS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 ltr	Total Inflow Volume 10^6 ltr	Flow Balance Error Percent
CH12_PRE	JUNCTION	8.160	8.160	0 01:45	75.5	75.5	0.000
CH1_1	JUNCTION	0.000	0.000	0 00:00	0	0	0.000 ltr
CH1_2	JUNCTION	0.000	0.000	0 00:00	0	0	0.000 ltr
CH1_3	JUNCTION	0.000	0.000	0 00:00	0	0	0.000 ltr
CH1_4	JUNCTION	0.000	0.000	0 00:00	0	0	0.000 ltr
CH1_5	JUNCTION	0.000	0.000	0 00:00	0	0	0.000 ltr
CH1_6	JUNCTION	0.000	0.000	0 00:00	0	0	0.000 ltr
CH1_7	JUNCTION	0.000	7.418	0 00:32	0	21.9	0.000
CH1_8	JUNCTION	0.000	7.418	0 00:32	0	21.9	0.000
CH1_9	JUNCTION	0.000	7.418	0 00:32	0	21.9	0.000
CH1_10	JUNCTION	0.000	7.418	0 00:32	0	21.9	0.000
CH1_11	JUNCTION	0.000	7.418	0 00:32	0	21.9	0.000
CH1_12	JUNCTION	0.000	7.418	0 00:32	0	21.9	0.000
CH1_13	JUNCTION	0.000	7.418	0 00:32	0	21.9	0.000
CH1_14	JUNCTION	0.000	7.418	0 00:32	0	21.9	0.000
CH1_15	JUNCTION	0.000	7.418	0 00:32	0	21.9	0.000
CH1_16	JUNCTION	0.000	7.418	0 00:32	0	21.9	0.000
CH1_17	JUNCTION	0.000	7.418	0 00:32	0	21.9	0.000
CH1_18	JUNCTION	0.000	7.418	0 00:32	0	21.9	0.000
CH1_19	JUNCTION	0.000	7.418	0 00:32	0	21.9	0.000
CH1_20	JUNCTION	0.000	7.418	0 00:32	0	21.9	0.000
CH1_21	JUNCTION	0.000	7.418	0 00:32	0	21.9	0.000
CH1_22	JUNCTION	0.000	10.922	0 00:46	0	52.5	0.000
CH1_23	JUNCTION	0.000	10.922	0 00:46	0	52.5	0.000
CH1_24	JUNCTION	0.000	10.922	0 00:46	0	52.5	0.000
CH1_25	JUNCTION	0.000	10.922	0 00:46	0	52.5	0.000
CH1_26	JUNCTION	0.000	10.922	0 00:46	0	52.5	0.000
CH2_1	JUNCTION	0.000	0.000	0 00:00	0	0	0.000 ltr
CH2_2	JUNCTION	0.000	0.000	0 00:00	0	0	0.000 ltr
CH2_3	JUNCTION	0.000	0.000	0 00:00	0	0	0.000 ltr

CH2_4	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH2_5	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH2_6	JUNCTION	0.000	7.418	0	00:32	0	21.9	0.000
CH3_1	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH3_2	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH3_3	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH3_4	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH3_5	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH3_6	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH3_7	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH3_8	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH3_9	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH3_10	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH3_11	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH3_12	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH3_13	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH3_14	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH3_15	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH3_16	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH3_17	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH3_18	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH3_19	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH3_20	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH3_21	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH3_22	JUNCTION	0.000	0.000	0	00:00	0	0	0.000 ltr
CH4_1	JUNCTION	0.000	3.713	0	00:38	0	9.94	0.000
CH4_2	JUNCTION	0.000	3.713	0	00:38	0	9.94	0.000
CH4_3	JUNCTION	0.000	3.713	0	00:38	0	9.94	0.000
CH4_4	JUNCTION	0.000	3.713	0	00:38	0	9.94	0.000
CH4_5	JUNCTION	0.000	3.713	0	00:38	0	9.94	0.000
CH4_6	JUNCTION	0.000	3.713	0	00:38	0	9.94	0.000
CH4_7	JUNCTION	0.000	3.713	0	00:38	0	9.94	0.000
CH4_8	JUNCTION	0.000	3.713	0	00:38	0	9.94	0.000
CH4_9	JUNCTION	0.000	3.713	0	00:38	0	9.94	0.000
CH4_10	JUNCTION	0.000	3.713	0	00:38	0	9.94	0.000

CH4_11	JUNCTION	0.000	3.713	0	00:38	0	9.94	0.000
CH4_12	JUNCTION	0.000	3.713	0	00:38	0	9.94	0.000
CH4_13	JUNCTION	0.000	3.713	0	00:38	0	9.94	0.000
CH4_14	JUNCTION	0.000	3.713	0	00:38	0	9.94	0.000
CH4_15	JUNCTION	0.000	3.713	0	00:38	0	9.94	0.000
CH4_16	JUNCTION	0.000	4.466	0	00:40	0	14.7	0.000
CH4_17	JUNCTION	0.000	4.466	0	00:40	0	14.7	0.000
CH4_18	JUNCTION	0.000	4.466	0	00:40	0	14.7	0.000
CH4_19	JUNCTION	0.000	4.466	0	00:40	0	14.7	0.000
CH4_20	JUNCTION	0.000	4.466	0	00:40	0	14.7	0.000
CH4_21	JUNCTION	0.000	4.466	0	00:40	0	14.7	0.000
CH4_22	JUNCTION	0.000	6.264	0	00:42	0	22.9	0.000
CH4_23	JUNCTION	0.000	6.264	0	00:42	0	22.9	0.000
CH4_24	JUNCTION	0.000	6.264	0	00:42	0	22.9	0.000
CH4_25	JUNCTION	0.000	6.264	0	00:42	0	22.9	0.000
CH4_26	JUNCTION	0.000	6.264	0	00:42	0	22.9	0.000
CH4_27	JUNCTION	0.000	6.264	0	00:42	0	22.9	0.000
CH4_28	JUNCTION	0.000	6.264	0	00:42	0	22.9	0.000
CH4_29	JUNCTION	0.000	6.826	0	00:43	0	29.7	0.000
CH4_30	JUNCTION	0.000	6.826	0	00:43	0	29.7	0.000
CH4_31	JUNCTION	0.000	6.826	0	00:43	0	29.7	0.000
CH4_32	JUNCTION	0.000	6.826	0	00:43	0	29.7	0.000
CH4_33	JUNCTION	0.000	6.826	0	00:43	0	29.7	0.000
CH4_34	JUNCTION	0.000	6.826	0	00:43	0	29.7	0.000
CH4_35	JUNCTION	0.000	6.826	0	00:43	0	29.7	0.000
CH4_36	JUNCTION	0.000	6.826	0	00:43	0	29.7	0.000
CH4_37	JUNCTION	0.000	6.826	0	00:43	0	29.7	0.000
CH4_38	JUNCTION	0.000	6.826	0	00:43	0	29.7	0.000
CH4_39	JUNCTION	0.000	9.179	0	00:43	0	37.7	0.000
CH4_40	JUNCTION	0.000	9.179	0	00:43	0	37.7	0.000
CH4_41	JUNCTION	0.000	9.179	0	00:43	0	37.7	0.000
CH4_42	JUNCTION	0.000	9.179	0	00:43	0	37.7	0.000
CH4_43	JUNCTION	0.000	9.179	0	00:43	0	37.7	0.000
CH4_44	JUNCTION	0.000	9.179	0	00:43	0	37.7	0.000
CH4_45	JUNCTION	0.000	11.115	0	00:43	0	44.3	0.000

CH4_46	JUNCTION	0.000	11.115	0	00:43	0	44.3	0.000	
CH4_47	JUNCTION	0.000	11.115	0	00:43	0	44.3	0.000	
CH4_48	JUNCTION	0.000	11.115	0	00:43	0	44.3	0.000	
CH4_49	JUNCTION	0.000	11.115	0	00:43	0	44.3	0.000	
CH4_50	JUNCTION	0.000	12.084	0	00:44	0	50.8	0.000	
CH4_51	JUNCTION	0.000	12.084	0	00:44	0	50.8	0.000	
CH4_52	JUNCTION	0.000	12.084	0	00:44	0	50.8	0.000	
CH4_53	JUNCTION	0.000	12.084	0	00:44	0	50.8	0.000	
CH4_54	JUNCTION	0.000	12.084	0	00:44	0	50.8	0.000	
CH4_55	JUNCTION	0.000	12.084	0	00:44	0	50.8	0.000	
CH4_56	JUNCTION	0.000	12.084	0	00:44	0	50.8	0.000	
MH1	JUNCTION	0.000	3.364	0	00:31	0	11.2	0.000	
MH2	JUNCTION	0.000	3.068	0	00:33	0	10.1	0.000	
MH3	JUNCTION	3.550	3.550	0	00:35	12	12	0.000	
MH3.1	JUNCTION	0.000	3.550	0	00:35	0	12	0.000	
MH3.3	JUNCTION	0.000	2.955	0	00:38	0	9.45	0.000	
MH4	JUNCTION	0.000	0.692	0	00:46	0	4.5	0.000	
MH4.1	JUNCTION	0.000	0.977	0	00:46	0	4.77	0.000	
CH15_1	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH15_2	JUNCTION	0.000	0.000	0	00:00	0	0	0.000	ltr
CH15_3	JUNCTION	0.000	0.977	0	00:46	0	4.77	0.000	
CH15_4	JUNCTION	0.000	0.977	0	00:46	0	4.77	0.000	
MH5	JUNCTION	0.000	1.509	0	00:46	0	7.78	0.000	
MH6	JUNCTION	0.000	0.593	0	00:54	0	6.4	0.000	
MH7	JUNCTION	0.000	1.852	0	00:42	0	7.62	0.000	
MH8	JUNCTION	0.000	1.624	0	00:42	0	6.39	0.000	
MH9	JUNCTION	0.000	0.942	0	00:49	0	6.31	0.000	
CH4_57	JUNCTION	0.000	12.084	0	00:44	0	50.8	0.000	
CH4_58	JUNCTION	0.000	12.084	0	00:44	0	50.8	0.000	
CH4_59	JUNCTION	0.000	12.084	0	00:44	0	50.8	0.000	
CH4_60	JUNCTION	0.000	13.125	0	00:44	0	54.5	0.000	
MH10	JUNCTION	0.000	0.788	0	00:43	0	3.48	0.000	
MH3.2	JUNCTION	0.000	3.550	0	00:35	0	12	0.000	
CH1_PRE	JUNCTION	5.678	5.678	0	01:55	54.3	54.3	0.000	
CH2_PRE	JUNCTION	0.000	5.678	0	01:55	0	54.3	0.000	

CH3_PRE	JUNCTION	0.000	5.678	0	01:55	0	54.3	0.000
CH4_PRE	JUNCTION	0.000	5.678	0	01:55	0	54.3	0.000
CH5_PRE	JUNCTION	0.000	5.678	0	01:55	0	54.3	0.000
CH6_PRE	JUNCTION	0.000	5.678	0	01:55	0	54.3	0.000
CH7_PRE	JUNCTION	0.000	5.678	0	01:55	0	54.3	0.000
CH8_PRE	JUNCTION	0.000	5.678	0	01:55	0	54.3	0.000
CH9_PRE	JUNCTION	0.000	5.678	0	01:55	0	54.3	0.000
CH10_PRE	JUNCTION	0.000	5.678	0	01:55	0	54.3	0.000
CH11_PRE	JUNCTION	0.000	5.678	0	01:55	0	54.3	0.000
CH13_PRE	JUNCTION	0.000	13.764	0	01:50	0	130	0.000
CH14_PRE	JUNCTION	0.000	13.764	0	01:50	0	130	0.000
CH15_PRE	JUNCTION	0.000	13.764	0	01:50	0	130	0.000
CH17_PRE	JUNCTION	2.268	2.268	0	01:35	15.7	15.7	0.000
CH18_PRE	JUNCTION	0.000	2.268	0	01:35	0	15.7	0.000
CH19_PRE	JUNCTION	0.000	2.268	0	01:35	0	15.7	0.000
CH20_PRE	JUNCTION	0.000	2.268	0	01:35	0	15.7	0.000
CH21_PRE	JUNCTION	0.000	2.268	0	01:35	0	15.7	0.000
CH22_PRE	JUNCTION	0.000	2.268	0	01:35	0	15.7	0.000
CH23_PRE	JUNCTION	0.000	2.268	0	01:35	0	15.7	0.000
CH24_PRE	JUNCTION	1.352	3.586	0	01:30	7.74	23.5	0.000
CH25_PRE	JUNCTION	0.000	3.586	0	01:30	0	23.5	0.000
CH26_PRE	JUNCTION	0.000	3.586	0	01:30	0	23.5	0.000
CH27_PRE	JUNCTION	0.000	3.586	0	01:30	0	23.5	0.000
CH28_PRE	JUNCTION	1.686	5.247	0	01:35	13.3	36.8	0.000
CH29_PRE	JUNCTION	0.000	5.247	0	01:35	0	36.8	0.000
CH30_PRE	JUNCTION	0.000	5.247	0	01:35	0	36.8	0.000
CH31_PRE	JUNCTION	1.711	6.958	0	01:35	11.2	48	0.000
CH32_PRE	JUNCTION	0.000	6.958	0	01:35	0	48	0.000
CH33_PRE	JUNCTION	0.000	6.958	0	01:35	0	48	0.000
CH34_PRE	JUNCTION	2.065	9.011	0	01:35	12.9	60.9	0.000
CH35_PRE	JUNCTION	0.000	9.011	0	01:35	0	60.9	0.000
CH36_PRE	JUNCTION	1.631	10.642	0	01:35	10.7	71.6	0.000
CH37_PRE	JUNCTION	0.000	10.642	0	01:35	0	71.6	0.000
CH38_PRE	JUNCTION	0.000	10.642	0	01:35	0	71.6	0.000
CH39_PRE	JUNCTION	1.510	12.153	0	01:35	10.6	82.2	0.000

CH40_PRE	JUNCTION	0.000	12.153	0	01:35	0	82.2	0.000
CH41_PRE	JUNCTION	0.000	12.153	0	01:35	0	82.2	0.000
CH42_PRE	JUNCTION	0.000	12.153	0	01:35	0	82.2	0.000
CH43_PRE	JUNCTION	1.073	13.163	0	01:35	5.82	88	0.000
MHOUTPRE0	OUTFALL	0.000	13.764	0	01:50	0	130	0.000
MHOUT0	OUTFALL	0.000	10.922	0	00:46	0	52.5	0.000
MHOUTPRE1	OUTFALL	0.000	13.163	0	01:35	0	88	0.000
MHOUT1	OUTFALL	0.000	13.125	0	00:44	0	54.5	0.000
POND1	STORAGE	3.883	3.883	0	00:30	11.5	11.5	0.059
POND2	STORAGE	3.680	3.680	0	00:30	10.4	10.4	0.072
MINING_PIT	STORAGE	7.473	10.963	0	00:30	18.6	30.6	0.039
POND3	STORAGE	4.761	4.761	0	00:30	9.94	9.94	0.069
POND4	STORAGE	2.608	2.608	0	00:25	4.77	4.77	0.025
POND5	STORAGE	3.448	3.448	0	00:30	8.2	8.2	0.039
POND6	STORAGE	3.225	3.225	0	00:25	6.81	6.81	0.009
POND7	STORAGE	3.969	3.969	0	00:25	8	8	0.045
POND8	STORAGE	3.228	3.228	0	00:25	6.6	6.6	0.054
POND9	STORAGE	2.958	2.958	0	00:25	6.48	6.48	0.025
POND10	STORAGE	1.997	1.997	0	00:25	3.67	3.67	0.042

****
Node Flooding Summary
****

No nodes were flooded.

****
Storage Volume Summary
****

	Average Volume	Avg Pcnt	Evap Pcnt	Exfil Pcnt	Maximum Volume	Max Pcnt	Time of Max Occurrence	Maximum Outflow

Storage Unit	1000 m³	Full	Loss	Loss	1000 m³	Full	days	hr:min	CMS
POND1	0.019	3.5	0.0	0.0	0.508	93.0	0	00:31	3.858
POND2	0.047	4.0	0.0	0.0	1.115	94.5	0	00:33	3.582
MINING_PIT	2.153	13.7	0.0	0.0	14.489	92.0	0	00:48	5.681
POND3	0.121	3.7	0.0	0.0	3.238	98.5	0	00:38	3.713
POND4	0.247	8.0	0.0	0.0	3.073	99.6	0	00:46	0.977
POND5	0.165	5.0	0.0	0.0	3.282	99.9	0	00:46	1.971
POND6	0.724	15.3	0.0	0.0	4.677	98.6	0	00:54	0.855
POND7	0.173	4.7	0.0	0.0	3.639	98.3	0	00:42	2.358
POND8	0.110	4.0	0.0	0.0	2.725	98.4	0	00:42	1.939
POND9	0.328	8.4	0.0	0.0	3.767	97.0	0	00:49	1.131
POND10	0.163	7.7	0.0	0.0	2.077	98.5	0	00:43	1.044

****
Outfall Loading Summary
****

Outfall Node	Flow Freq Pcnt	Avg Flow CMS	Max Flow CMS	Total Volume 10^6 ltr
MHOUTPRE0	71.41	2.112	13.764	129.819
MHOUT0	99.63	0.612	10.922	52.467
MHOUTPRE1	41.52	2.462	13.163	88.019
MHOUT1	99.63	0.635	13.125	54.459
System	78.05	5.820	34.595	324.763

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CMS	Time of Max Occurrence days	hr:min	Maximum |Veloc| m/sec	Max/ Full Flow	Max/ Full Depth
LCH1_1	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH1_2	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH1_3	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH1_4	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH1_5	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH1_6	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH1_7	CONDUIT	7.418	0	00:32	1.81	0.66	0.79
LCH1_8	CONDUIT	7.418	0	00:32	1.81	0.66	0.79
LCH1_9	CONDUIT	7.418	0	00:32	3.73	0.22	0.42
LCH1_10	CONDUIT	7.418	0	00:32	3.77	0.22	0.42
LCH1_11	CONDUIT	7.418	0	00:32	3.37	0.26	0.46
LCH1_12	CONDUIT	7.418	0	00:32	3.09	0.30	0.50
LCH1_13	CONDUIT	7.418	0	00:32	2.74	0.36	0.56
LCH1_14	CONDUIT	7.418	0	00:32	1.81	0.66	0.79
LCH1_15	CONDUIT	7.418	0	00:32	3.61	0.23	0.44
LCH1_16	CONDUIT	7.418	0	00:32	3.53	0.24	0.44
LCH1_17	CONDUIT	7.418	0	00:32	1.81	0.66	0.79
LCH1_18	CONDUIT	7.418	0	00:32	1.81	0.66	0.79
LCH1_19	CONDUIT	7.418	0	00:32	3.89	0.21	0.41
LCH1_20	CONDUIT	7.418	0	00:32	3.46	0.25	0.45
LCH1_21	CONDUIT	7.418	0	00:32	11.19	0.04	0.15
LCH1_22	CONDUIT	10.922	0	00:46	2.59	0.69	0.81
LCH1_23	CONDUIT	10.922	0	00:46	2.04	0.98	0.99
LCH1_24	CONDUIT	10.922	0	00:46	2.04	0.98	0.99
LCH1_25	CONDUIT	10.922	0	00:46	2.04	0.98	0.99
LCH1_26	CONDUIT	10.922	0	00:46	2.04	0.98	0.99
LCH2_1	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH2_2	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH2_3	CONDUIT	0.000	0	00:00	0.00	0.00	0.00

LCH2_4	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH2_5	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH2_6	CONDUIT	7.418	0	00:32	2.55	0.40	0.59
LCH3_1	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_2	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_4	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_5	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_6	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_7	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_8	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_9	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_10	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_11	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_12	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_13	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_14	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_15	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_16	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_17	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_18	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_19	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_20	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_21	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH3_22	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH4_1	CONDUIT	3.713	0	00:38	4.11	0.07	0.20
LCH4_2	CONDUIT	3.713	0	00:38	3.78	0.07	0.22
LCH4_3	CONDUIT	3.713	0	00:38	3.41	0.09	0.24
LCH4_4	CONDUIT	3.713	0	00:38	3.79	0.07	0.22
LCH4_5	CONDUIT	3.713	0	00:38	5.07	0.05	0.17
LCH4_6	CONDUIT	3.713	0	00:38	1.44	0.33	0.53
LCH4_7	CONDUIT	3.713	0	00:38	1.44	0.33	0.53
LCH4_8	CONDUIT	3.713	0	00:38	1.44	0.33	0.53
LCH4_9	CONDUIT	3.713	0	00:38	1.44	0.33	0.53
LCH4_10	CONDUIT	3.713	0	00:38	1.88	0.22	0.42
LCH4_11	CONDUIT	3.713	0	00:38	1.44	0.33	0.53

LCH4_12	CONDUIT	3.713	0	00:38	1.75	0.25	0.45
LCH4_13	CONDUIT	3.713	0	00:38	1.44	0.33	0.53
LCH4_14	CONDUIT	3.713	0	00:38	2.15	0.18	0.37
LCH4_15	CONDUIT	3.713	0	00:38	2.00	0.20	0.40
LCH4_16	CONDUIT	4.466	0	00:40	1.53	0.40	0.59
LCH4_17	CONDUIT	4.466	0	00:40	2.51	0.19	0.38
LCH4_18	CONDUIT	4.466	0	00:40	1.53	0.40	0.59
LCH4_19	CONDUIT	4.466	0	00:40	1.66	0.35	0.55
LCH4_20	CONDUIT	4.466	0	00:40	1.53	0.40	0.59
LCH4_21	CONDUIT	4.466	0	00:40	1.70	0.34	0.54
LCH4_22	CONDUIT	6.264	0	00:42	3.06	0.23	0.43
LCH4_23	CONDUIT	6.264	0	00:42	2.92	0.25	0.45
LCH4_24	CONDUIT	6.264	0	00:42	3.61	0.18	0.37
LCH4_25	CONDUIT	6.264	0	00:42	3.14	0.22	0.42
LCH4_26	CONDUIT	6.264	0	00:42	2.26	0.37	0.57
LCH4_27	CONDUIT	6.264	0	00:42	2.31	0.36	0.56
LCH4_28	CONDUIT	6.264	0	00:42	2.04	0.43	0.62
LCH4_29	CONDUIT	6.826	0	00:43	2.27	0.42	0.61
LCH4_30	CONDUIT	6.826	0	00:43	1.76	0.61	0.76
LCH4_31	CONDUIT	6.826	0	00:43	1.76	0.61	0.76
LCH4_32	CONDUIT	6.826	0	00:43	1.76	0.61	0.76
LCH4_33	CONDUIT	6.826	0	00:43	1.76	0.61	0.76
LCH4_34	CONDUIT	6.826	0	00:43	1.76	0.61	0.76
LCH4_35	CONDUIT	6.826	0	00:43	3.16	0.25	0.46
LCH4_36	CONDUIT	6.826	0	00:43	4.18	0.16	0.35
LCH4_37	CONDUIT	6.826	0	00:43	2.51	0.36	0.56
LCH4_38	CONDUIT	6.826	0	00:43	1.76	0.61	0.76
LCH4_39	CONDUIT	9.179	0	00:43	3.38	0.36	0.56
LCH4_40	CONDUIT	9.179	0	00:43	1.93	0.82	0.89
LCH4_42	CONDUIT	9.179	0	00:43	1.93	0.82	0.90
LCH4_43	CONDUIT	9.179	0	00:43	1.93	0.82	0.89
LCH4_44	CONDUIT	9.179	0	00:43	2.80	0.48	0.66
LCH4_45	CONDUIT	11.115	0	00:43	2.05	0.66	0.80
LCH4_46	CONDUIT	11.115	0	00:43	2.05	0.67	0.80
LCH4_47	CONDUIT	11.115	0	00:43	2.05	0.66	0.80

LCH4_48	CONDUIT	11.115	0	00:43	2.05	0.66	0.80
LCH4_49	CONDUIT	11.115	0	00:43	2.05	0.48	0.66
LCH4_50	CONDUIT	12.084	0	00:44	4.51	0.17	0.37
LCH4_51	CONDUIT	12.084	0	00:44	2.55	0.39	0.60
LCH4_52	CONDUIT	12.084	0	00:44	3.40	0.26	0.47
LCH4_53	CONDUIT	12.084	0	00:44	3.27	0.57	0.73
LCH4_54	CONDUIT	12.084	0	00:44	2.68	0.76	0.86
LCH4_55	CONDUIT	12.084	0	00:44	2.46	0.58	0.74
LCH4_56	CONDUIT	12.084	0	00:44	2.11	0.52	0.70
LCH3_3	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH4_41	CONDUIT	9.179	0	00:43	1.93	0.82	0.89
LMH1	CONDUIT	3.364	0	00:31	9.92	0.95	0.78
LMH2	CONDUIT	3.068	0	00:33	8.37	0.84	0.70
LMH3	CONDUIT	3.550	0	00:35	14.00	0.87	0.72
LMH3.1	CONDUIT	3.550	0	00:35	12.50	0.77	0.66
LMH3.3	CONDUIT	2.955	0	00:38	7.73	0.88	0.73
LMH4	CONDUIT	0.692	0	00:46	10.13	0.25	0.34
LCH15_1	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH15_2	CONDUIT	0.000	0	00:00	0.00	0.00	0.00
LCH15_3	CONDUIT	0.977	0	00:46	0.90	0.09	0.24
LCH15_4	CONDUIT	0.977	0	00:46	2.43	0.02	0.09
LMH4.1	CONDUIT	0.977	0	00:46	9.05	0.48	0.49
LMH5	CONDUIT	1.509	0	00:46	10.45	0.70	0.61
LMH6	CONDUIT	0.593	0	00:54	10.04	0.21	0.31
LMH7	CONDUIT	1.852	0	00:42	12.32	0.73	0.64
LMH8	CONDUIT	1.624	0	00:42	10.98	0.72	0.63
LMH9	CONDUIT	0.942	0	00:49	9.39	0.43	0.46
LCH4_57	CONDUIT	12.084	0	00:44	3.53	0.51	0.68
LCH4_58	CONDUIT	12.084	0	00:44	2.11	0.72	0.84
LCH4_59	CONDUIT	12.084	0	00:44	2.93	0.67	0.80
LCH4_60	CONDUIT	13.125	0	00:44	3.07	0.70	0.82
LMH10	CONDUIT	0.788	0	00:43	11.25	0.43	0.46
LMH3.2	CONDUIT	3.550	0	00:35	12.64	0.97	0.80
LCH1_PRE	CONDUIT	5.678	0	01:55	2.86	0.22	0.42
LCH2_PRE	CONDUIT	5.678	0	01:55	4.61	0.11	0.27

LMHOUTPRE3	CONDUIT	5.678	0	01:55	5.24	0.09	0.24
LMHOUTPRE4	CONDUIT	5.678	0	01:55	4.92	0.10	0.26
LMHOUTPRE5	CONDUIT	5.678	0	01:55	4.26	0.12	0.29
LMHOUTPRE6	CONDUIT	5.678	0	01:55	2.86	0.22	0.42
LMHOUTPRE7	CONDUIT	5.678	0	01:55	5.32	0.08	0.24
LMHOUTPRE8	CONDUIT	5.678	0	01:55	2.85	0.22	0.42
LMHOUTPRE9	CONDUIT	5.678	0	01:55	2.86	0.22	0.42
LMHOUTPRE10	CONDUIT	5.678	0	01:55	5.70	0.08	0.22
LMHOUTPRE11	CONDUIT	5.678	0	01:55	11.10	0.03	0.12
LMHOUTPRE12	CONDUIT	13.764	0	01:50	3.85	0.54	0.71
LMHOUTPRE13	CONDUIT	13.764	0	01:50	3.85	0.54	0.71
KOUTPRE1	CONDUIT	13.764	0	01:50	3.85	0.54	0.71
LMHOUTPRE16	CONDUIT	8.160	0	01:45	3.23	0.32	0.52
LCH17_PRE	CONDUIT	2.268	0	01:35	5.29	0.03	0.13
LCH18_PRE	CONDUIT	2.268	0	01:35	5.73	0.03	0.12
LCH19_PRE	CONDUIT	2.268	0	01:35	3.98	0.05	0.18
LCH20_PRE	CONDUIT	2.268	0	01:35	2.06	0.15	0.33
LCH21_PRE	CONDUIT	2.268	0	01:35	2.27	0.13	0.30
LCH22_PRE	CONDUIT	2.268	0	01:35	3.20	0.07	0.22
LCH23_PRE	CONDUIT	2.268	0	01:35	2.06	0.15	0.33
LCH24_PRE	CONDUIT	3.586	0	01:30	3.65	0.12	0.29
LCH25_PRE	CONDUIT	3.586	0	01:30	3.59	0.13	0.30
LCH26_PRE	CONDUIT	3.586	0	01:30	2.98	0.17	0.36
LCH27_PRE	CONDUIT	3.586	0	01:30	2.43	0.23	0.43
LCH28_PRE	CONDUIT	5.247	0	01:35	4.98	0.14	0.31
LCH29_PRE	CONDUIT	5.247	0	01:35	4.15	0.18	0.37
LCH30_PRE	CONDUIT	5.247	0	01:35	4.01	0.19	0.38
LCH31_PRE	CONDUIT	6.958	0	01:35	3.56	0.36	0.55
LCH32_PRE	CONDUIT	6.958	0	01:35	3.06	0.46	0.63
LCH33_PRE	CONDUIT	6.958	0	01:35	5.31	0.19	0.39
LCH34_PRE	CONDUIT	9.011	0	01:35	4.93	0.33	0.52
LCH35_PRE	CONDUIT	9.011	0	01:35	3.34	0.59	0.74
LCH36_PRE	CONDUIT	10.642	0	01:35	5.13	0.40	0.59
LCH37_PRE	CONDUIT	10.642	0	01:35	3.54	0.70	0.81
LCH38_PRE	CONDUIT	10.642	0	01:35	3.54	0.70	0.81

LCH39_PRE	CONDUIT	12.153	0	01:35	6.56	0.33	0.53
LCH40_PRE	CONDUIT	12.153	0	01:35	4.54	0.58	0.73
LCH41_PRE	CONDUIT	12.153	0	01:35	4.73	0.55	0.71
LCH42_PRE	CONDUIT	12.153	0	01:35	4.58	0.58	0.73
KOUTPRE0	CONDUIT	13.163	0	01:35	6.56	0.38	0.57
10yr1	ORIFICE	2.008	0	00:31		0.00	
50yr1	ORIFICE	1.356	0	00:31		0.00	
10yr2	ORIFICE	1.682	0	00:33		0.00	
50yr2	ORIFICE	1.386	0	00:33		0.00	
10yrMP	ORIFICE	1.084	0	00:48		0.00	
50yrMP	ORIFICE	2.537	0	00:48		0.00	
10yr3	ORIFICE	1.626	0	00:38		0.00	
50yr3	ORIFICE	1.329	0	00:38		0.00	
10yr4	ORIFICE	0.353	0	00:46		0.00	
50yr4	ORIFICE	0.339	0	00:46		0.00	
10yr5	ORIFICE	1.161	0	00:46		0.00	
50yr5	ORIFICE	0.348	0	00:46		0.00	
10yr6	ORIFICE	0.257	0	00:54		0.00	
50yr6	ORIFICE	0.337	0	00:54		0.00	
10yr7	ORIFICE	1.069	0	00:42		0.00	
50yr7	ORIFICE	0.783	0	00:42		0.00	
10yr8	ORIFICE	1.133	0	00:42		0.00	
50yr8	ORIFICE	0.491	0	00:42		0.00	
10yr9	ORIFICE	0.470	0	00:49		0.00	
50yr9	ORIFICE	0.472	0	00:49		0.00	
10yr10	ORIFICE	0.257	0	00:43		0.00	
50yr10	ORIFICE	0.531	0	00:43		0.00	
100yrWeir1	WEIR	0.494	0	00:31		0.00	
100yrWeir2	WEIR	0.514	0	00:33		0.00	
100yrWeir3	WEIR	0.758	0	00:38		0.00	
100yrWeir4	WEIR	0.284	0	00:46		0.00	
100yrWeir5	WEIR	0.462	0	00:46		0.00	
100yrWeir6	WEIR	0.262	0	00:54		0.00	
100yrWeir7	WEIR	0.506	0	00:42		0.00	
100yrWeir8	WEIR	0.316	0	00:42		0.00	

100yrWeir9	WEIR	0.189	0	00:49	0.00
100yrWeir10	WEIR	0.257	0	00:43	0.00
100yrWeirMP	WEIR	2.061	0	00:48	0.00

****
Conduit Surcharge Summary
****

No conduits were surcharged.

Analysis begun on: Mon Jul 27 09:43:16 2026
Analysis ended on: Mon Jul 27 09:43:17 2026
Total elapsed time: 00:00:01

ANNEXURE H: STORMWATER DRAWINGS

ANNEXURE H1: STORMWATER MANAGEMENT PLAN: 458_04A_SWMP1_REV.P1

ANNEXURE H2: STORMWATER KEY PLAN: 458_04A_K1_REV.P1

ANNEXURE H3: STORMWATER TYPICAL DETAILS: 458_04A_D1_REV.P1

ANNEXURE H4: STORMWATER TYPICAL DETAILS: 458_04A_D2_REV.P1

ANNEXURE H5: STORMWATER GENERAL LAYOUT PLAN: 458_04A_GL1_REV.P3

ANNEXURE H6: STORMWATER GENERAL LAYOUT PLAN: 458_04A_GL2_REV.P1

ANNEXURE H7: STORMWATER LONG SECTIONS: 458_04A_L1_REV.P1

ANNEXURE H8: STORMWATER LONG SECTIONS: 458_04A_L2_REV.P1

ANNEXURE H9: STORMWATER LONG SECTIONS: 458_04A_L3_REV.P1

ANNEXURE H10: STORMWATER LONG SECTIONS: 458_04A_L4_REV.P1

ANNEXURE H11: STORMWATER LONG SECTIONS: 458_04A_L5_REV.P1

ANNEXURE H12: STORMWATER LONG SECTIONS: 458_04A_L6_REV.P1

ANNEXURE H1: STORMWATER MANAGEMENT PLAN: 458_04A_SWMP1_REV.P1