

APPENDIX K.6 – Drainage & Stormwater Management Report

APPENDIX C: HYDROLOGIC ASSESSMENT

APPENDIX C1: EXISTING

Summary of VO2 Parameters

	Catchment ID	Hydrograph Classification	T _p Method	Total Drainage Area (ha)	IA (mm)	Weighted Runoff Coeff.	Modified CN Value	Time to Peak, T _p (hr)	Percent Imperv. (%)
ROW	101	STANDHYD	-	0.41	1.50	0.65	71	-	54
	102	STANDHYD	-	0.80	1.50	0.59	71	-	44
	103	STANDHYD	-	4.48	1.50	0.51	63	-	32
	141	NASHYD	Airport	3.10	5.00	0.21	61	0.52	0
	142	NASHYD	Airport	0.72	5.00	0.22	58	0.21	5
	105	STANDHYD	-	0.41	1.50	0.60	58	-	56
	106	STANDHYD	-	1.64	1.50	0.53	58	-	45
	171	STANDHYD	-	2.67	1.50	0.50	56	-	43
	172a	STANDHYD	-	0.97	1.50	0.00	58	-	37
	172b	STANDHYD	-	1.33	1.50	0.54	58	-	47
	109	STANDHYD	-	1.23	1.50	0.55	58	-	49
	100	STANDHYD	-	0.90	1.50	0.76	79	-	59
External	1	STANDHYD	-	19.32	1.50	0.51	63	-	31
	2	NASHYD	Airport	2.01	5.00	0.30	64	0.21	12
	3	NASHYD	Airport	4.44	5.00	0.22	58	0.53	6
	4	STANDHYD	-	16.90	1.50	0.29	43	-	21
	5	NASHYD	Airport	93.22	5.00	0.22	53	1.29	12
	6	STANDHYD	-	8.77	1.50	0.65	58	-	64

VO Schematic - 100Yr - 12hr - 15min SCS Type II

 NHYD - 101
Outlet 1
AREA [ha] - 0.410
PKFW [m³/s] - 0.097

 NHYD - 102
Outlet 2
AREA [ha] - 0.800
PKFW [m³/s] - 0.163

 NHYD - 103
Outlet 3
AREA [ha] - 4.480
PKFW [m³/s] - 0.704

 NHYD - 141
Outlet 4.1
AREA [ha] - 3.100
PKFW [m³/s] - 0.132

 NHYD - 142
Outlet 4.2
AREA [ha] - 0.720
PKFW [m³/s] - 0.055

 NHYD - 105
Outlet 5
AREA [ha] - 0.410
PKFW [m³/s] - 0.088

 NHYD - 106
Outlet 6
AREA [ha] - 1.640
PKFW [m³/s] - 0.303

 NHYD - 171
Outlet 7
AREA [ha] - 2.670
PKFW [m³/s] - 0.471

 NHYD - 181
Outlet 8.1
AREA [ha] - 0.970
PKFW [m³/s] - 0.160

 NHYD - 182
Outlet 8.2
AREA [ha] - 1.330
PKFW [m³/s] - 0.253

 NHYD - 109
Outlet 9
AREA [ha] - 1.230
PKFW [m³/s] - 0.241

 NHYD - 110
Outlet 10
AREA [ha] - 0.900
PKFW [m³/s] - 0.234

VO DETAIL OUTPUT

** SIMULATION:005yr 12hr15min SCS Type II (MTO) **

| READ STORM Filename: C:\Users\RObeid\AppData
| ata\Local\Temp\
| 2dc9d38f-98e2-4608-97a8-64e21145182b\cf7cd77a
| Ptotal= 53.02mm | Comments: 005yr 12hr15min SCS Type II (MTO)

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.00	0.00	3.25	2.12	6.50	9.54	9.75	1.86
0.25	1.33	3.50	2.12	6.75	4.24	10.00	1.86
0.50	1.33	3.75	2.12	7.00	4.24	10.25	1.06
0.75	1.33	4.00	2.12	7.25	3.18	10.50	1.06
1.00	1.33	4.25	3.18	7.50	3.18	10.75	1.06
1.25	1.33	4.50	3.18	7.75	3.18	11.00	1.06
1.50	1.33	4.75	4.24	8.00	3.18	11.25	1.06
1.75	1.33	5.00	4.24	8.25	1.86	11.50	1.06
2.00	1.33	5.25	6.36	8.50	1.86	11.75	1.06
2.25	1.59	5.50	6.36	8.75	1.86	12.00	1.06
2.50	1.59	5.75	25.45	9.00	1.86		
2.75	1.59	6.00	69.99	9.25	1.86		
3.00	1.59	6.25	9.54	9.50	1.86		

| CALIB |
| STANDHYD (0103)| Area (ha)= 4.48
|ID= 1 DT= 5.0 min | Total Imp(%)= 32.00 Dir. Conn.(%)= 32.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.43	3.05
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	172.82	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06

1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)=	69.999.61
over (min)	5.000.00
Storage Coeff. (min)=	(ii) 4.007.63 (ii)
Unit Hyd. Tpeak (min)=	5.000.00
Unit Hyd. peak (cms)=	0.24 0.06

TOTALS			
PEAK FLOW (cms)=	0.270.09	0.334 (iii)	
TIME TO PEAK (hrs)=	6.256.42	6.25	
RUNOFF VOLUME (mm)=	52.02	13.23	25.64
TOTAL RAINFALL (mm)=	53.02	53.02	53.02
RUNOFF COEFFICIENT =	0.980.25	0.48	

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 63.0 Ia =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |

| STANDHYD (0105)| Area (ha)= 0.41

|ID= 1 DT= 5.0 min | Total Imp(%)= 56.00 Dir. Conn.(%)= 56.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.23	0.18
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.002.00	
Length (m)=	52.28	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06

2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)=	69.99	16.61
over (min)	5.00	0.00
Storage Coeff. (min)=	2.00 (ii)	16.47 (ii)
Unit Hyd. Tpeak (min)=	5.00	0.00
Unit Hyd. peak (cms)=	0.31	0.06
TOTALS		
PEAK FLOW (cms)=	0.04	0.00 0.048 (iii)
TIME TO PEAK (hrs)=	6.25	6.25
RUNOFF VOLUME (mm)=	52.02	11.27 34.07
TOTAL RAINFALL (mm)=	53.02	53.02 53.02
RUNOFF COEFFICIENT =	0.98	0.21 0.64

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |

| STANDHYD (0106)Area (ha)= 1.64

|ID= 1 DT= 5.0 min | Total Imp(%)= 45.00 Dir. Conn.(%)= 45.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.74 0.90

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.002.00

Length (m)= 104.56 40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN

hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr

0.083 0.00 | 3.167 1.59 | 6.250 69.98 | 9.33 1.86

0.167 0.00 | 3.250 1.59 | 6.333 9.54 | 9.42 1.86

0.250 0.00 | 3.333 2.12 | 6.417 9.54 | 9.50 1.86

0.333 1.33 | 3.417 2.12 | 6.500 9.54 | 9.58 1.86

0.417 1.33 | 3.500 2.12 | 6.583 9.54 | 9.67 1.86

0.500 1.33 | 3.583 2.12 | 6.667 9.54 | 9.75 1.86

0.583 1.33 | 3.667 2.12 | 6.750 9.54 | 9.83 1.86

0.667 1.33 | 3.750 2.12 | 6.833 4.24 | 9.92 1.86

0.750 1.33 | 3.833 2.12 | 6.917 4.24 | 10.00 1.86

0.833 1.33 | 3.917 2.12 | 7.000 4.24 | 10.08 1.86

0.917 1.33 | 4.000 2.12 | 7.083 4.24 | 10.17 1.86

1.000 1.33 | 4.083 2.12 | 7.167 4.24 | 10.25 1.86

1.083 1.33 | 4.167 2.12 | 7.250 4.24 | 10.33 1.06

1.167 1.33 | 4.250 2.12 | 7.333 3.18 | 10.42 1.06

1.250 1.33 | 4.333 3.18 | 7.417 3.18 | 10.50 1.06

1.333 1.33 | 4.417 3.18 | 7.500 3.18 | 10.58 1.06

1.417 1.33 | 4.500 3.18 | 7.583 3.18 | 10.67 1.06

1.500 1.33 | 4.583 3.18 | 7.667 3.18 | 10.75 1.06

1.583 1.33 | 4.667 3.18 | 7.750 3.18 | 10.83 1.06

1.667 1.33 | 4.750 3.18 | 7.833 3.18 | 10.92 1.06

1.750 1.33 | 4.833 4.24 | 7.917 3.18 | 11.00 1.06

1.833 1.33 | 4.917 4.24 | 8.000 3.18 | 11.08 1.06

1.917 1.33 | 5.000 4.24 | 8.083 3.18 | 11.17 1.06

2.000 1.33 | 5.083 4.24 | 8.167 3.18 | 11.25 1.06

2.083 1.33 | 5.167 4.24 | 8.250 3.18 | 11.33 1.06

2.167 1.33 | 5.250 4.24 | 8.333 1.86 | 11.42 1.06

2.250 1.33 | 5.333 6.36 | 8.417 1.86 | 11.50 1.06

2.333 1.59 | 5.417 6.36 | 8.500 1.86 | 11.58 1.06

2.417 1.59 | 5.500 6.36 | 8.583 1.86 | 11.67 1.06

2.500 1.59 | 5.583 6.36 | 8.667 1.86 | 11.75 1.06

2.583 1.59 | 5.667 6.36 | 8.750 1.86 | 11.83 1.06

2.667 1.59 | 5.750 6.36 | 8.833 1.86 | 11.92 1.06

2.750 1.59 | 5.833 25.45 | 8.917 1.86 | 12.00 1.06

2.833 1.59 | 5.917 25.45 | 9.000 1.86 | 12.08 1.06

2.917 1.59 | 6.000 25.45 | 9.083 1.86 | 12.17 1.06

3.000 1.59 | 6.083 69.99 | 9.167 1.86 | 12.25 1.06

3.083 1.59 | 6.167 69.99 | 9.250 1.86 |

Max.Eff.Inten.(mm/hr)= 69.9916.61

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06

1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)= 69.9915.54
over (min) 5.000.00
Storage Coeff. (min)= 3.50 (ii) 18.37 (ii)
Unit Hyd. Tpeak (min)= 5.000.00
Unit Hyd. peak (cms)= 0.26 0.06

TOTALS

PEAK FLOW (cms)= 0.220.03 0.244 (iii)
TIME TO PEAK (hrs)= 6.256.42 6.25
RUNOFF VOLUME (mm)= 52.02 10.57 28.39
TOTAL RAINFALL (mm)= 53.02 53.02 53.02
RUNOFF COEFFICIENT = 0.980.20 0.54

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 56.0 Ia =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (1722)| Area (ha)= 1.33
|ID= 1 DT= 5.0 min | Total Imp(%)= 47.00 Dir. Conn.(%)= 47.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.63	0.70
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	94.16	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86

0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06

3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)=	69.99	16.61
over (min)	5.00	0.00
Storage Coeff. (min)=	2.84 (ii)	17.31 (ii)
Unit Hyd. Tpeak (min)=	5.00	0.00
Unit Hyd. peak (cms)=	0.28	0.06
TOTALS		
PEAK FLOW (cms)=	0.12	0.02 0.133 (iii)
TIME TO PEAK (hrs)=	6.25	6.42 6.25
RUNOFF VOLUME (mm)=	52.02	11.27 30.42
TOTAL RAINFALL (mm)=	53.02	53.02 53.02
RUNOFF COEFFICIENT =	0.98	21 0.057

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 la =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (010β)Area (ha)= 1.23
|ID= 1 DT= 5.0 min | Total Imp(%)= 49.00 Dir. Conn.(%)= 49.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.60 0.63
 Dep. Storage (mm)= 1.00 1.50
 Average Slope (%)= 1.002.00
 Length (m)= 90.5540.00
 Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06

1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)= 69.99 16.61
 over (min) 5.000.00

Storage Coeff. (min)= 2.78 (ii) 17.25 (ii)

Unit Hyd. Tpeak (min)= 5.000.00

Unit Hyd. peak (cms)= 0.28 0.06

TOTALS

PEAK FLOW (cms)= 0.120.02 0.127 (iii)

TIME TO PEAK (hrs)= 6.255.42 6.25

RUNOFF VOLUME (mm)= 52.02 11.27 31.23

TOTAL RAINFALL (mm)= 53.02 53.02 53.02

RUNOFF COEFFICIENT = 0.98 21 0.0.59

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 la =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0109)| Area (ha)= 0.90
|ID= 1 DT= 5.0 min | Total Imp(%)= 59.00 Dir. Conn.(%)= 59.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.53 0.37
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.002.00
Length (m)= 77.4640.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr
0.083 0.00 | 3.167 1.59 | 6.250 69.98 | 9.33 1.86

0.167	0.00		3.250	1.59		6.333	9.54		9.42	1.86
0.250	0.00		3.333	2.12		6.417	9.54		9.50	1.86
0.333	1.33		3.417	2.12		6.500	9.54		9.58	1.86
0.417	1.33		3.500	2.12		6.583	9.54		9.67	1.86
0.500	1.33		3.583	2.12		6.667	9.54		9.75	1.86
0.583	1.33		3.667	2.12		6.750	9.54		9.83	1.86
0.667	1.33		3.750	2.12		6.833	4.24		9.92	1.86
0.750	1.33		3.833	2.12		6.917	4.24		10.00	1.86
0.833	1.33		3.917	2.12		7.000	4.24		10.08	1.86
0.917	1.33		4.000	2.12		7.083	4.24		10.17	1.86
1.000	1.33		4.083	2.12		7.167	4.24		10.25	1.86
1.083	1.33		4.167	2.12		7.250	4.24		10.33	1.06
1.167	1.33		4.250	2.12		7.333	3.18		10.42	1.06
1.250	1.33		4.333	3.18		7.417	3.18		10.50	1.06
1.333	1.33		4.417	3.18		7.500	3.18		10.58	1.06
1.417	1.33		4.500	3.18		7.583	3.18		10.67	1.06
1.500	1.33		4.583	3.18		7.667	3.18		10.75	1.06
1.583	1.33		4.667	3.18		7.750	3.18		10.83	1.06
1.667	1.33		4.750	3.18		7.833	3.18		10.92	1.06
1.750	1.33		4.833	4.24		7.917	3.18		11.00	1.06
1.833	1.33		4.917	4.24		8.000	3.18		11.08	1.06
1.917	1.33		5.000	4.24		8.083	3.18		11.17	1.06
2.000	1.33		5.083	4.24		8.167	3.18		11.25	1.06
2.083	1.33		5.167	4.24		8.250	3.18		11.33	1.06
2.167	1.33		5.250	4.24		8.333	1.86		11.42	1.06
2.250	1.33		5.333	6.36		8.417	1.86		11.50	1.06
2.333	1.59		5.417	6.36		8.500	1.86		11.58	1.06
2.417	1.59		5.500	6.36		8.583	1.86		11.67	1.06
2.500	1.59		5.583	6.36		8.667	1.86		11.75	1.06
2.583	1.59		5.667	6.36		8.750	1.86		11.83	1.06

2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

| NASHYD Q(141) Area (ha)= 3.10Curve Number (CN)= 61.0
|ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.53

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

Max.Eff.Inten.(mm/hr)=	69.9933.86	
over (min)	5.005.00	
Storage Coeff. (min)=	(ii)2.33.41 (ii)	
Unit Hyd. Tpeak (min)=	5.005.00	
Unit Hyd. peak (cms)=	0.29	0.08
TOTALS		
PEAK FLOW (cms)=	0.100.02	0.122 (iii)
TIME TO PEAK (hrs)=	6.256.33	6.25
RUNOFF VOLUME (mm)=	52.02	22.30 39.82
TOTAL RAINFALL (mm)=	53.02	53.02 53.02
RUNOFF COEFFICIENT =	0.98 42	0.0.75

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia =Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06

1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Unit Hyd Qpeak (cms)= 0.223

PEAK FLOW (cms)= 0.049 (i)

TIME TO PEAK (hrs)= 6.750

RUNOFF VOLUME (mm)= 10.958

TOTAL RAINFALL (mm)= 53.020

RUNOFF COEFFICIENT = 0.207

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD 0142)| Area (ha)= 0.72Curve Number (CN)= 58.0
|ID= 1 DT= 5.0 min | la (mm)= 5.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.20

NOTE: RAINFALL WAS TRANSFORMED TO 5.MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06

1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.020 (i)

TIME TO PEAK (hrs)= 6.333

RUNOFF VOLUME (mm)= 9.922

TOTAL RAINFALL (mm)= 53.020

RUNOFF COEFFICIENT = 0.187

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (172|)Area (ha)= 0.97
|ID= 1 DT= 5.0 min | Total Imp(%)= 37.00 Dir. Conn.(%)= 37.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.36	0.61
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	80.42	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86

1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)=
69.996.61

over (min)
5.000.00

Storage Coeff. (min)=
(ii)2.39.06 (ii)

Unit Hyd. Tpeak (min)=
5.000.00

Unit Hyd. peak (cms)=	0.29	0.06	
TOTALS			
PEAK FLOW (cms)=	0.070.02	0.080 (iii)	
TIME TO PEAK (hrs)=	6.255.42	6.25	
RUNOFF VOLUME (mm)=	52.02	11.27	26.34
TOTAL RAINFALL (mm)=	53.02	53.02	53.02
RUNOFF COEFFICIENT =	0.980.21	0.50	

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
- CN* = 58.0 Ia =Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
- THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB
|

| STANDHYD (0101)| Area (ha)=
0.41

|ID= 1 DT= 5.0 min | Total Imp(%)=
54.00
Dir. Conn.(%)=
54.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.22	0.19
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.002.00	
Length (m)=	52.2840.00	
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06

2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)=	69.9925.63		
over (min)	5.00	5.00	
Storage Coeff. (min)=	2.00 (ii)	14.16(i)	
Unit Hyd. Tpeak (min)=	5.00	5.00	
Unit Hyd. peak (cms)=	0.31	0.08	
TOTALS			
PEAK FLOW (cms)=	0.040.01	0.050 (iii)	
TIME TO PEAK (hrs)=	6.25	6.25	
RUNOFF VOLUME (mm)=	52.02	17.10	35.93
TOTAL RAINFALL (mm)=	53.02	53.02	53.02
RUNOFF COEFFICIENT =	0.98	32	0.068

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 71.0 Ia =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |

| STANDHYD (0102)Area (ha)= 0.80

|ID= 1 DT= 5.0 min | Total Imp(%)= 44.00 Dir. Conn.(%)= 44.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.35 0.45

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.002.00

Length (m)= 73.0340.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME RAIN | TIME RAIN |' TIME RAIN |TIME RAIN

hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr

0.083 0.00 | 3.167 1.59 | 6.250 69.98 | 9.33 1.86

0.167 0.00 | 3.250 1.59 | 6.333 9.54 | 9.42 1.86

0.250 0.00 | 3.333 2.12 | 6.417 9.54 | 9.50 1.86

0.333 1.33 | 3.417 2.12 | 6.500 9.54 | 9.58 1.86

0.417 1.33 | 3.500 2.12 | 6.583 9.54 | 9.67 1.86

0.500 1.33 | 3.583 2.12 | 6.667 9.54 | 9.75 1.86

0.583 1.33 | 3.667 2.12 | 6.750 9.54 | 9.83 1.86

0.667 1.33 | 3.750 2.12 | 6.833 4.24 | 9.92 1.86

0.750 1.33 | 3.833 2.12 | 6.917 4.24 | 10.00 1.86

0.833 1.33 | 3.917 2.12 | 7.000 4.24 | 10.08 1.86

0.917 1.33 | 4.000 2.12 | 7.083 4.24 | 10.17 1.86

1.000 1.33 | 4.083 2.12 | 7.167 4.24 | 10.25 1.86

1.083 1.33 | 4.167 2.12 | 7.250 4.24 | 10.33 1.06

1.167 1.33 | 4.250 2.12 | 7.333 3.18 | 10.42 1.06

1.250 1.33 | 4.333 3.18 | 7.417 3.18 | 10.50 1.06

1.333 1.33 | 4.417 3.18 | 7.500 3.18 | 10.58 1.06

1.417 1.33 | 4.500 3.18 | 7.583 3.18 | 10.67 1.06

1.500 1.33 | 4.583 3.18 | 7.667 3.18 | 10.75 1.06

1.583 1.33 | 4.667 3.18 | 7.750 3.18 | 10.83 1.06

1.667 1.33 | 4.750 3.18 | 7.833 3.18 | 10.92 1.06

1.750 1.33 | 4.833 4.24 | 7.917 3.18 | 11.00 1.06

1.833 1.33 | 4.917 4.24 | 8.000 3.18 | 11.08 1.06

1.917 1.33 | 5.000 4.24 | 8.083 3.18 | 11.17 1.06

2.000 1.33 | 5.083 4.24 | 8.167 3.18 | 11.25 1.06

2.083 1.33 | 5.167 4.24 | 8.250 3.18 | 11.33 1.06

2.167 1.33 | 5.250 4.24 | 8.333 1.86 | 11.42 1.06

2.250 1.33 | 5.333 6.36 | 8.417 1.86 | 11.50 1.06

2.333 1.59 | 5.417 6.36 | 8.500 1.86 | 11.58 1.06

2.417 1.59 | 5.500 6.36 | 8.583 1.86 | 11.67 1.06

2.500 1.59 | 5.583 6.36 | 8.667 1.86 | 11.75 1.06

2.583 1.59 | 5.667 6.36 | 8.750 1.86 | 11.83 1.06

2.667 1.59 | 5.750 6.36 | 8.833 1.86 | 11.92 1.06

2.750 1.59 | 5.833 25.45 | 8.917 1.86 | 12.00 1.06

2.833 1.59 | 5.917 25.45 | 9.000 1.86 | 12.08 1.06

2.917 1.59 | 6.000 25.45 | 9.083 1.86 | 12.17 1.06

3.000 1.59 | 6.083 69.99 | 9.167 1.86 | 12.25 1.06

3.083 1.59 | 6.167 69.99 | 9.250 1.86 |

Max.Eff.Inten.(mm/hr)= 69.9925.63
over (min) 5.005.00
Storage Coeff. (min)= 2.44 (ii) 14.61 (ii)
Unit Hyd. Tpeak (min)= 5.005.00
Unit Hyd. peak (cms)= 0.30 0.08
TOTALS
PEAK FLOW (cms)= 0.07 0.02 0.085 (iii)
TIME TO PEAK (hrs)= 6.256.33 6.25
RUNOFF VOLUME (mm)= 52.02 17.10 32.45
TOTAL RAINFALL (mm)= 53.02 53.02 53.02
RUNOFF COEFFICIENT = 0.980.32 0.61

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 71.0 Ia =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

** SIMULATION:010yr 12hr15min SCS Type II (MTO) **

| READ STORM Filename: C:\Users\RObeid\AppData
| ata\Local\Temp\
| 2dc9d38f-98e2-4608-97a8-64e21145182b\72788581
| Ptotal= 63.19 mm | Comments: 010yr 12hr15min SCS Type II (MTO)

TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.00 0.00 | 3.25 2.53 | 6.50 11.37 | 9.75 2.21
0.25 1.58 | 3.50 2.53 | 6.75 5.06 | 10.00 2.21
0.50 1.58 | 3.75 2.53 | 7.00 5.06 | 10.25 1.26
0.75 1.58 | 4.00 2.53 | 7.25 3.79 | 10.50 1.26
1.00 1.58 | 4.25 3.79 | 7.50 3.79 | 10.75 1.26
1.25 1.58 | 4.50 3.79 | 7.75 3.79 | 11.00 1.26
1.50 1.58 | 4.75 5.06 | 8.00 3.79 | 11.25 1.26
1.75 1.58 | 5.00 5.06 | 8.25 2.21 | 11.50 1.26
2.00 1.58 | 5.25 7.58 | 8.50 2.21 | 11.75 1.26
2.25 1.90 | 5.50 7.58 | 8.75 2.21 | 12.00 1.26
2.50 1.90 | 5.75 30.33 | 9.00 2.21 |
2.75 1.90 | 6.00 83.41 | 9.25 2.21 |
3.00 1.90 | 6.25 11.37 | 9.50 2.21 |

| CALIB |
| STANDHYD (0103) | Area (ha)= 4.48
| ID= 1 DT= 5.0 min | Total Imp(%)= 32.00 Dir. Conn.(%)= 32.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 1.43 3.05
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.002.00
Length (m)= 172.82 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26

2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)=	83.41	26.87
over (min)	5.00	0.00
Storage Coeff. (min)=	3.81 (ii)	15.75 (ii)
Unit Hyd. Tpeak (min)=	5.00	0.00
Unit Hyd. peak (cms)=	0.25	0.07
TOTALS		
PEAK FLOW (cms)=	0.33	0.13 0.416 (iii)
TIME TO PEAK (hrs)=	6.25	6.42 6.25
RUNOFF VOLUME (mm)=	62.19	18.05 32.17
TOTAL RAINFALL (mm)=	63.19	63.19 63.19
RUNOFF COEFFICIENT =	0.98	0.29 0.51

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 63.0 la =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |

| STANDHYD (0105)Area (ha)= 0.41

|ID= 1 DT= 5.0 min | Total Imp(%)= 56.00 Dir. Conn.(%)= 56.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.23	0.18
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	52.28	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21

0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26

3.083 1.90 | 6.167 83.41 | 9.250 2.21 |

Max.Eff.Inten.(mm/hr)= 83.4122.92
over (min) 5.005.00

Storage Coeff. (min)= 1.86 (ii) 14.58 (ii)

Unit Hyd. Tpeak (min)= 5.005.00

Unit Hyd. peak (cms)= 0.32 0.08

TOTALS

PEAK FLOW (cms)= 0.050.01 0.059 (iii)

TIME TO PEAK (hrs)= 6.256.33 6.25

RUNOFF VOLUME (mm)= 62.19 15.49 41.62

TOTAL RAINFALL (mm)= 63.19 63.19 63.19

RUNOFF COEFFICIENT = 0.980.25 0.66

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 la =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |

| STANDHYD (0106)| Area (ha)= 1.64

|ID= 1 DT= 5.0 min | Total Imp(%)= 45.00 Dir. Conn.(%)= 45.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.74 0.90

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.002.00

Length (m)= 104.56 40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26

1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)= 83.4122.92
over (min) 5.000.00
Storage Coeff. (min)= 2.82 (ii) 15.54 (ii)
Unit Hyd. Tpeak (min)= 5.000.00
Unit Hyd. peak (cms)= 0.28 0.07

TOTALS

PEAK FLOW (cms)= 0.170.03 0.193 (iii)
TIME TO PEAK (hrs)= 6.256.42 6.25
RUNOFF VOLUME (mm)= 62.19 15.49 36.50
TOTAL RAINFALL (mm)= 63.19 63.19 63.19
RUNOFF COEFFICIENT = 0.98 25 0.0.58

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0171)| Area (ha)= 2.67
|ID= 1 DT= 5.0 min | Total Imp(%)= 43.00 Dir. Conn.(%)= 43.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.15	1.52
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	133.42	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21

0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26

2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)=	83.41	21.50
over (min)	5.00	0.00
Storage Coeff. (min)=	3.27 (ii)	16.32 (ii)
Unit Hyd. Tpeak (min)=	5.00	0.00
Unit Hyd. peak (cms)=	0.27	0.06
TOTALS		
PEAK FLOW (cms)=	0.26	0.05 0.299 (iii)
TIME TO PEAK (hrs)=	6.25	6.42
RUNOFF VOLUME (mm)=	62.19	14.57 35.04
TOTAL RAINFALL (mm)=	63.19	63.19 63.19
RUNOFF COEFFICIENT =	0.98	23 0.055

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 56.0 la =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (172p)Area (ha)= 1.33

|ID= 1 DT= 5.0 min | Total Imp(%)= 47.00 Dir. Conn.(%)= 47.00

		IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)=	0.63	0.70
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	1.00	2.00
Length	(m)=	94.16	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26

1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)=	83.41	22.92
over (min)	5.00	0.00
Storage Coeff. (min)=	2.65 (ii)	15.37 (ii)
Unit Hyd. Tpeak (min)=	5.00	0.00
Unit Hyd. peak (cms)=	0.29	0.07
TOTALS		
PEAK FLOW (cms)=	0.14	0.03
	0.162 (iii)	

TIME TO PEAK (hrs)= 6.256.42 6.25
 RUNOFF VOLUME (mm)= 62.19 15.49 37.43
 TOTAL RAINFALL (mm)= 63.19 63.19 63.19
 RUNOFF COEFFICIENT = 0.980.25 0.59

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 la =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |

| STANDHYD (010B)Area (ha)= 1.23

|ID= 1 DT= 5.0 min | Total Imp(%)= 49.00 Dir. Conn.(%)= 49.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.60 0.63

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.002.00

Length (m)= 90.5540.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26

2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)= 83.4122.92
over (min) 5.000.00

Storage Coeff. (min)= 2.59 (ii) 15.31 (ii)

Unit Hyd. Tpeak (min)= 5.000.00

Unit Hyd. peak (cms)= 0.29 0.07

TOTALS

PEAK FLOW (cms)= 0.140.02 0.155 (iii)

TIME TO PEAK (hrs)= 6.256.42 6.25

RUNOFF VOLUME (mm)= 62.19 15.49 38.37

TOTAL RAINFALL (mm)= 63.19 63.19 63.19

RUNOFF COEFFICIENT = 0.980.25 0.61

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0109)| Area (ha)= 0.90
|ID= 1 DT= 5.0 min | Total Imp(%)= 59.00 Dir. Conn.(%)= 59.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.53 0.37
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.000.00
Length (m)= 77.4640.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21

1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)= 83.4147.61
over (min) 5.005.00
Storage Coeff. (min)= 2.36 (ii) 11.85 (ii)

Unit Hyd. Tpeak (min)= 5.005.00
Unit Hyd. peak (cms)= 0.30 0.09

TOTALS
PEAK FLOW (cms)= 0.120.03 0.150 (iii)
TIME TO PEAK (hrs)= 6.256.33 6.25
RUNOFF VOLUME (mm)= 62.19 29.45 48.76
TOTAL RAINFALL (mm)= 63.19 63.19 63.19
RUNOFF COEFFICIENT = 0.98 47 0.077

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia =Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD Ø141| Area (ha)= 3.10Curve Number (CN)= 61.0
|ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.53

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr

0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26

2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Unit Hyd Qpeak (cms)= 0.223

PEAK FLOW (cms)= 0.069 (i)

TIME TO PEAK (hrs)= 6.667

RUNOFF VOLUME (mm)= 15.350

TOTAL RAINFALL (mm)= 63.190

RUNOFF COEFFICIENT = 0.243

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD (142) Area (ha)= 0.72Curve Number (CN)= 58.0
 |ID= 1 DT= 5.0 min | la (mm)= 5.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.20

NOTE: RAINFALL WAS TRANSFORMED TO 5.MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN

hrs	mm/hr		hrs	mm/hr	'	hrs	mm/hr		hrs	mm/hr
0.083	0.00		3.167	1.90		6.250	83.41		9.33	2.21
0.167	0.00		3.250	1.90		6.333	11.37		9.42	2.21
0.250	0.00		3.333	2.53		6.417	11.37		9.50	2.21
0.333	1.58		3.417	2.53		6.500	11.37		9.58	2.21
0.417	1.58		3.500	2.53		6.583	11.37		9.67	2.21
0.500	1.58		3.583	2.53		6.667	11.37		9.75	2.21
0.583	1.58		3.667	2.53		6.750	11.37		9.83	2.21
0.667	1.58		3.750	2.53		6.833	5.06		9.92	2.21
0.750	1.58		3.833	2.53		6.917	5.06		10.00	2.21
0.833	1.58		3.917	2.53		7.000	5.06		10.08	2.21
0.917	1.58		4.000	2.53		7.083	5.06		10.17	2.21
1.000	1.58		4.083	2.53		7.167	5.06		10.25	2.21
1.083	1.58		4.167	2.53		7.250	5.06		10.33	1.26
1.167	1.58		4.250	2.53		7.333	3.79		10.42	1.26
1.250	1.58		4.333	3.79		7.417	3.79		10.50	1.26
1.333	1.58		4.417	3.79		7.500	3.79		10.58	1.26
1.417	1.58		4.500	3.79		7.583	3.79		10.67	1.26
1.500	1.58		4.583	3.79		7.667	3.79		10.75	1.26
1.583	1.58		4.667	3.79		7.750	3.79		10.83	1.26
1.667	1.58		4.750	3.79		7.833	3.79		10.92	1.26
1.750	1.58		4.833	5.06		7.917	3.79		11.00	1.26
1.833	1.58		4.917	5.06		8.000	3.79		11.08	1.26
1.917	1.58		5.000	5.06		8.083	3.79		11.17	1.26
2.000	1.58		5.083	5.06		8.167	3.79		11.25	1.26
2.083	1.58		5.167	5.06		8.250	3.79		11.33	1.26
2.167	1.58		5.250	5.06		8.333	2.21		11.42	1.26
2.250	1.58		5.333	7.58		8.417	2.21		11.50	1.26
2.333	1.90		5.417	7.58		8.500	2.21		11.58	1.26
2.417	1.90		5.500	7.58		8.583	2.21		11.67	1.26

2.500	1.90		5.583	7.58		8.667	2.21		11.75	1.26
2.583	1.90		5.667	7.58		8.750	2.21		11.83	1.26
2.667	1.90		5.750	7.58		8.833	2.21		11.92	1.26
2.750	1.90		5.833	30.33		8.917	2.21		12.00	1.26
2.833	1.90		5.917	30.33		9.000	2.21		12.08	1.26
2.917	1.90		6.000	30.33		9.083	2.21		12.17	1.26
3.000	1.90		6.083	83.41		9.167	2.21		12.25	1.26
3.083	1.90		6.167	83.41		9.250	2.21			

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.028 (i)

TIME TO PEAK (hrs)= 6.333

RUNOFF VOLUME (mm)= 13.958

TOTAL RAINFALL (mm)= 63.190

RUNOFF COEFFICIENT = 0.221

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | STANDHYD (172ft) Area (ha)= 0.97
 |ID= 1 DT= 5.0 min | Total Imp(%)= 37.00 Dir. Conn.(%)= 37.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.36	0.61
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	80.42	40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26

1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)=	83.41	22.92	
over (min)	5.00	0.00	
Storage Coeff. (min)=	2.41 (ii)	15.13 (ii)	
Unit Hyd. Tpeak (min)=	5.00	0.00	
Unit Hyd. peak (cms)=	0.30	0.07	
TOTALS			
PEAK FLOW (cms)=	0.08	0.02	0.098 (iii)
TIME TO PEAK (hrs)=	6.25	5.42	6.25
RUNOFF VOLUME (mm)=	62.19	15.49	32.76
TOTAL RAINFALL (mm)=	63.19	63.19	63.19
RUNOFF COEFFICIENT =	0.98	0.25	0.52

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR IMPERVIOUS LOSSES:

CN* =58.0 Ia =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0101)Area (ha)= 0.41
|ID= 1 DT= 5.0 min | Total Imp(%)= 54.00 Dir. Conn.(%)= 54.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.22 0.19
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.002.00
Length (m)= 52.2840.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21

0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26

3.000 1.90 | 6.083 83.41 | 9.167 2.21 | 12.25 1.26
3.083 1.90 | 6.167 83.41 | 9.250 2.21 |

Max.Eff.Inten.(mm/hr)= 83.4134.62
over (min) 5.005.00
Storage Coeff. (min)= 1.86 (ii) 12.65 (ii)
Unit Hyd. Tpeak (min)= 5.005.00
Unit Hyd. peak (cms)= 0.32 0.08

TOTALS

PEAK FLOW (cms)= 0.05 0.01 0.061 (iii)
TIME TO PEAK (hrs)= 6.256.33 6.25
RUNOFF VOLUME (mm)= 62.19 23.00 44.14
TOTAL RAINFALL (mm)= 63.19 63.19 63.19
RUNOFF COEFFICIENT = 0.98 36 0. 0.70

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 71.0 Ia =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |

| STANDHYD (0102) | Area (ha)= 0.80

| ID= 1 DT= 5.0 min | Total Imp(%)= 44.00 Dir. Conn.(%)= 44.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.35 0.45
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.002.00
Length (m)= 73.0340.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26

1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)=	83.41	34.62
over (min)	5.00	5.00
Storage Coeff. (min)=	2.27 (ii)	13.06 (ii)
Unit Hyd. Tpeak (min)=	5.00	5.00
Unit Hyd. peak (cms)=	0.30	0.08
TOTALS		
PEAK FLOW (cms)=	0.08	0.03 0.105 (iii)
TIME TO PEAK (hrs)=	6.25	6.33 6.25
RUNOFF VOLUME (mm)=	62.19	23.00 40.24
TOTAL RAINFALL (mm)=	63.19	63.19 63.19

RUNOFF COEFFICIENT = 0.98 36 0.0.64

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 71.0 la =Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

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*****
** SIMULATION:025yr 12hr15min SCS Type II (MTO) **
*****

| READ STORM | file name: C:\Users\RObeid\AppData
| | ata\Local\Temp\
| | 2dc9d38f-98e2-4608-97a8-64e21145182b\011a1172
| Ptotal= 73.70 mm | comments: 025yr 12hr15min SCS Type II (MTO)

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TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.00	0.00	3.25	2.95	6.50	13.27	9.75	2.58
0.25	1.84	3.50	2.95	6.75	5.90	10.00	2.58
0.50	1.84	3.75	2.95	7.00	5.90	10.25	1.47
0.75	1.84	4.00	2.95	7.25	4.42	10.50	1.47
1.00	1.84	4.25	4.42	7.50	4.42	10.75	1.47
1.25	1.84	4.50	4.42	7.75	4.42	11.00	1.47
1.50	1.84	4.75	5.90	8.00	4.42	11.25	1.47

1.75	1.84		5.00	5.90		8.25	2.58		11.50	1.47
2.00	1.84		5.25	8.84		8.50	2.58		11.75	1.47
2.25	2.21		5.50	8.84		8.75	2.58		12.00	1.47
2.50	2.21		5.75	35.38		9.00	2.58			
2.75	2.21		6.00	97.28		9.25	2.58			
3.00	2.21		6.25	13.27		9.50	2.58			

0.333	1.84		3.417	2.95		6.500	13.27		9.58	2.58
0.417	1.84		3.500	2.95		6.583	13.27		9.67	2.58
0.500	1.84		3.583	2.95		6.667	13.27		9.75	2.58
0.583	1.84		3.667	2.95		6.750	13.27		9.83	2.58
0.667	1.84		3.750	2.95		6.833	5.90		9.92	2.58
0.750	1.84		3.833	2.95		6.917	5.90		10.00	2.58
0.833	1.84		3.917	2.95		7.000	5.90		10.08	2.58
0.917	1.84		4.000	2.95		7.083	5.90		10.17	2.58
1.000	1.84		4.083	2.95		7.167	5.90		10.25	2.58
1.083	1.84		4.167	2.95		7.250	5.90		10.33	1.47
1.167	1.84		4.250	2.95		7.333	4.42		10.42	1.47
1.250	1.84		4.333	4.42		7.417	4.42		10.50	1.47
1.333	1.84		4.417	4.42		7.500	4.42		10.58	1.47
1.417	1.84		4.500	4.42		7.583	4.42		10.67	1.47
1.500	1.84		4.583	4.42		7.667	4.42		10.75	1.47
1.583	1.84		4.667	4.42		7.750	4.42		10.83	1.47
1.667	1.84		4.750	4.42		7.833	4.42		10.92	1.47
1.750	1.84		4.833	5.90		7.917	4.42		11.00	1.47
1.833	1.84		4.917	5.90		8.000	4.42		11.08	1.47
1.917	1.84		5.000	5.90		8.083	4.42		11.17	1.47
2.000	1.84		5.083	5.90		8.167	4.42		11.25	1.47
2.083	1.84		5.167	5.90		8.250	4.42		11.33	1.47
2.167	1.84		5.250	5.90		8.333	2.58		11.42	1.47
2.250	1.84		5.333	8.84		8.417	2.58		11.50	1.47
2.333	2.21		5.417	8.84		8.500	2.58		11.58	1.47
2.417	2.21		5.500	8.84		8.583	2.58		11.67	1.47
2.500	2.21		5.583	8.84		8.667	2.58		11.75	1.47
2.583	2.21		5.667	8.84		8.750	2.58		11.83	1.47
2.667	2.21		5.750	8.84		8.833	2.58		11.92	1.47
2.750	2.21		5.833	35.38		8.917	2.58		12.00	1.47

| CALIB |

| STANDHYD (010β)Area (ha)= 4.48

|ID= 1 DT= 5.0 min | Total Imp(%)= 32.00 Dir. Conn.(%)= 32.00

	IMPERVIOUS		PERVIOUS (i)
Surface Area	(ha)=	1.43	3.05
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	1.00	2.00
Length	(m)=	172.82	40.00
Mannings n	=	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN		TIME	RAIN		TIME	RAIN		TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	0.00		3.167	2.21		6.250	97.28		9.33	2.58
0.167	0.00		3.250	2.21		6.333	13.27		9.42	2.58
0.250	0.00		3.333	2.95		6.417	13.27		9.50	2.58

2.833 2.21 | 5.917 35.38 | 9.000 2.58 | 12.08 1.47
2.917 2.21 | 6.000 35.38 | 9.083 2.58 | 12.17 1.47
3.000 2.21 | 6.083 97.28 | 9.167 2.58 | 12.25 1.47
3.083 2.21 | 6.167 97.28 | 9.250 2.58 |

Max.Eff.Inten.(mm/hr)= 97.2835.18
over (min) 5.005.00
Storage Coeff. (min)= 3.59 (ii) 14.3(ii)
Unit Hyd. Tpeak (min)= 5.005.00
Unit Hyd. peak (cms)= 0.26 0.08

TOTALS

PEAK FLOW (cms)= 0.380.18 0.540 (iii)
TIME TO PEAK (hrs)= 6.256.33 6.25
RUNOFF VOLUME (mm)= 72.70 23.55 39.27
TOTAL RAINFALL (mm)= 73.70 73.70 73.70
RUNOFF COEFFICIENT = 0.990.32 0.53

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 63.0 Ia =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0105)| Area (ha)= 0.41
|ID= 1 DT= 5.0 min | Total Imp(%)= 56.00 Dir. Conn.(%)= 56.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.23 0.18
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.002.00
Length (m)= 52.2840.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47

1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)= 97.2830.22

over (min) 5.005.00

Storage Coeff. (min)= 1.75 (ii) 13.14 (ii)

Unit Hyd. Tpeak (min)= 5.005.00

Unit Hyd. peak (cms)= 0.32 0.08

TOTALS

PEAK FLOW (cms)= 0.06 0.01 0.070 (iii)

TIME TO PEAK (hrs)= 6.256.33 6.25

RUNOFF VOLUME (mm)= 72.70 20.35 49.65

TOTAL RAINFALL (mm)= 73.70 73.70 73.70

RUNOFF COEFFICIENT = 0.99 28 0. 0.67

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |

| STANDHYD (0106)| Area (ha)= 1.64

|ID= 1 DT= 5.0 min | Total Imp(%)= 45.00 Dir. Conn.(%)= 45.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.74 0.90

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.002.00

Length (m)= 104.56 40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME RAIN | TIME RAIN |' TIME RAIN |TIME RAIN

hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47

2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)=	97.2830.22		
over (min)	5.005.00		
Storage Coeff. (min)=	2.65 (ii)	14.04 (ii)	
Unit Hyd. Tpeak (min)=	5.005.00		
Unit Hyd. peak (cms)=	0.29	0.08	
	TOTALS		
PEAK FLOW (cms)=	0.200.05	0.239 (iii)	
TIME TO PEAK (hrs)=	6.256.33	6.25	
RUNOFF VOLUME (mm)=	72.70	20.35	43.90
TOTAL RAINFALL (mm)=	73.70	73.70	73.70
RUNOFF COEFFICIENT =	0.99	28	0.0.60

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |

| STANDHYD (017|l)Area (ha)= 2.67

|ID= 1 DT= 5.0 min | Total Imp(%)= 43.00 Dir. Conn.(%)= 43.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 1.15 1.52

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.002.00

Length (m)= 133.42 40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME RAIN | TIME RAIN |' TIME RAIN |TIME RAIN

hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr

0.083 0.00 | 3.167 2.21 | 6.250 97.28 | 9.33 2.58

0.167 0.00 | 3.250 2.21 | 6.333 13.27 | 9.42 2.58

0.250 0.00 | 3.333 2.95 | 6.417 13.27 | 9.50 2.58

0.333 1.84 | 3.417 2.95 | 6.500 13.27 | 9.58 2.58

0.417 1.84 | 3.500 2.95 | 6.583 13.27 | 9.67 2.58

0.500 1.84 | 3.583 2.95 | 6.667 13.27 | 9.75 2.58

0.583 1.84 | 3.667 2.95 | 6.750 13.27 | 9.83 2.58

0.667 1.84 | 3.750 2.95 | 6.833 5.90 | 9.92 2.58

0.750 1.84 | 3.833 2.95 | 6.917 5.90 | 10.00 2.58

0.833 1.84 | 3.917 2.95 | 7.000 5.90 | 10.08 2.58

0.917 1.84 | 4.000 2.95 | 7.083 5.90 | 10.17 2.58

1.000 1.84 | 4.083 2.95 | 7.167 5.90 | 10.25 2.58

1.083 1.84 | 4.167 2.95 | 7.250 5.90 | 10.33 1.47

1.167 1.84 | 4.250 2.95 | 7.333 4.42 | 10.42 1.47

1.250 1.84 | 4.333 4.42 | 7.417 4.42 | 10.50 1.47

1.333 1.84 | 4.417 4.42 | 7.500 4.42 | 10.58 1.47

1.417 1.84 | 4.500 4.42 | 7.583 4.42 | 10.67 1.47

1.500 1.84 | 4.583 4.42 | 7.667 4.42 | 10.75 1.47

1.583 1.84 | 4.667 4.42 | 7.750 4.42 | 10.83 1.47

1.667 1.84 | 4.750 4.42 | 7.833 4.42 | 10.92 1.47

1.750 1.84 | 4.833 5.90 | 7.917 4.42 | 11.00 1.47

1.833 1.84 | 4.917 5.90 | 8.000 4.42 | 11.08 1.47

1.917 1.84 | 5.000 5.90 | 8.083 4.42 | 11.17 1.47

2.000 1.84 | 5.083 5.90 | 8.167 4.42 | 11.25 1.47

2.083 1.84 | 5.167 5.90 | 8.250 4.42 | 11.33 1.47

2.167 1.84 | 5.250 5.90 | 8.333 2.58 | 11.42 1.47

2.250 1.84 | 5.333 8.84 | 8.417 2.58 | 11.50 1.47

2.333 2.21 | 5.417 8.84 | 8.500 2.58 | 11.58 1.47

2.417 2.21 | 5.500 8.84 | 8.583 2.58 | 11.67 1.47

2.500 2.21 | 5.583 8.84 | 8.667 2.58 | 11.75 1.47

2.583 2.21 | 5.667 8.84 | 8.750 2.58 | 11.83 1.47

2.667 2.21 | 5.750 8.84 | 8.833 2.58 | 11.92 1.47

2.750 2.21 | 5.833 35.38 | 8.917 2.58 | 12.00 1.47

2.833 2.21 | 5.917 35.38 | 9.000 2.58 | 12.08 1.47

2.917 2.21 | 6.000 35.38 | 9.083 2.58 | 12.17 1.47

3.000 2.21 | 6.083 97.28 | 9.167 2.58 | 12.25 1.47

3.083 2.21 | 6.167 97.28 | 9.250 2.58 |

Max.Eff.Inten.(mm/hr)= 97.2828.41

over (min) 5.005.00

Storage Coeff. (min)= 3.07 (ii) 14.75 (ii)

Unit Hyd. Tpeak (min)= 5.005.00

Unit Hyd. peak (cms)= 0.27 0.08

TOTALS

PEAK FLOW (cms)= 0.310.07 0.370 (iii)

TIME TO PEAK (hrs)= 6.256.33 6.25

RUNOFF VOLUME (mm)= 72.7019.18 42.19

TOTAL RAINFALL (mm)= 73.70 73.70 73.70

RUNOFF COEFFICIENT = 0.99 26 0.057

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 56.0 la =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |

| STANDHYD (172p)Area (ha)= 1.33

|ID= 1 DT= 5.0 min | Total Imp(%)= 47.00 Dir. Conn.(%)= 47.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.63 0.70

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.002.00

Length (m)= 94.1640.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47

2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)= 97.2830.22
over (min) 5.005.00
Storage Coeff. (min)= 2.49 (ii) 13.88 (ii)
Unit Hyd. Tpeak (min)= 5.005.00
Unit Hyd. peak (cms)= 0.29 0.08

TOTALS

PEAK FLOW (cms)= 0.17 0.04 0.200 (iii)
TIME TO PEAK (hrs)= 6.256.33 6.25
RUNOFF VOLUME (mm)= 72.70 20.35 44.95
TOTAL RAINFALL (mm)= 73.70 73.70 73.70
RUNOFF COEFFICIENT = 0.990.28 0.61

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0108)| Area (ha)= 1.23
|ID= 1 DT= 5.0 min | Total Imp(%)= 49.00 Dir. Conn.(%)= 49.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.60	0.63
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	90.55	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58

0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)=	97.2830.22
over (min)	5.005.00
Storage Coeff. (min)=	2.43 (ii) 13.82 (ii)
Unit Hyd. Tpeak (min)=	5.005.00
Unit Hyd. peak (cms)=	0.30 0.08
TOTALS	
PEAK FLOW (cms)=	0.160.03 0.191 (iii)
TIME TO PEAK (hrs)=	6.256.33 6.25
RUNOFF VOLUME (mm)=	72.70 20.35 46.00
TOTAL RAINFALL (mm)=	73.70 73.70 73.70
RUNOFF COEFFICIENT =	0.99 28 0.062

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (010p)Area (ha)= 0.90
|ID= 1 DT= 5.0 min | Total Imp(%)= 59.00 Dir. Conn.(%)= 59.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.53	0.37
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.002.00	

Length (m)= 77.4640.00
 Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47

1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)= 97.2860.09
 over (min) 5.005.00
 Storage Coeff. (min)= 2.22 (ii) 10.87 (ii)
 Unit Hyd. Tpeak (min)= 5.005.00
 Unit Hyd. peak (cms)= 0.30 0.09

TOTALS
 PEAK FLOW (cms)= 0.140.04 0.179 (iii)
 TIME TO PEAK (hrs)= 6.256.33 6.25
 RUNOFF VOLUME (mm)= 72.70 37.31 58.18
 TOTAL RAINFALL (mm)= 73.70 73.70 73.70
 RUNOFF COEFFICIENT = 0.990.51 0.79

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 79.0 la =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD (141) Area (ha)= 3.10Curve Number (CN)= 61.0
|ID= 1 DT= 5.0 min | la (mm)= 5.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.53

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58

0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Unit Hyd Qpeak (cms)= 0.223

PEAK FLOW (cms)= 0.092 (i)
TIME TO PEAK (hrs)= 6.667
RUNOFF VOLUME (mm)= 20.422
TOTAL RAINFALL (mm)= 73.700
RUNOFF COEFFICIENT = 0.277

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD Ø142| Area (ha)= 0.72| Curve Number (CN)= 58.0
| ID= 1 DT= 5.0 min | la (mm)= 5.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.20

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58

0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.038 (i)
TIME TO PEAK (hrs)= 6.333
RUNOFF VOLUME (mm)= 18.646
TOTAL RAINFALL (mm)= 73.700
RUNOFF COEFFICIENT = 0.253

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (172|)Area (ha)= 0.97
|ID= 1 DT= 5.0 min | Total Imp(%)= 37.00 Dir. Conn.(%)= 37.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.36 0.61
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.002.00
Length (m)= 80.4240.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58

0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47

2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)= 97.2830.22
over (min) 5.005.00
Storage Coeff. (min)= 2.27 (ii) 13.66 (ii)
Unit Hyd. Tpeak (min)= 5.005.00
Unit Hyd. peak (cms)= 0.30 0.08

TOTALS

PEAK FLOW (cms)= 0.10 0.03 0.124 (iii)
TIME TO PEAK (hrs)= 6.256.33 6.25
RUNOFF VOLUME (mm)= 72.70 20.35 39.71
TOTAL RAINFALL (mm)= 73.70 73.70 73.70
RUNOFF COEFFICIENT = 0.99 0.28 0.54

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0101)| Area (ha)= 0.41

|ID= 1 DT= 5.0 min | Total Imp(%)= 54.00 Dir. Conn.(%)= 54.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.22	0.19
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	52.28	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47

1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)=	97.28	47.83
over (min)	5.00	5.00
Storage Coeff. (min)=	1.75 (ii)	11.23 (ii)
Unit Hyd. Tpeak (min)=	5.00	5.00
Unit Hyd. peak (cms)=	0.32	0.09
TOTALS		
PEAK FLOW (cms)=	0.060	0.02 0.074 (iii)

TIME TO PEAK (hrs)=	6.25	6.33 6.25
RUNOFF VOLUME (mm)=	72.70	29.63 52.87
TOTAL RAINFALL (mm)=	73.70	73.70 73.70
RUNOFF COEFFICIENT =	0.99	40 0.072

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 71.0 Ia =Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB		
STANDHYD (010p)Area (ha)=	0.80	
ID= 1 DT= 5.0 min Total Imp(%)=	44.00	Dir. Conn.(%)= 44.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.35	0.45
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	73.03	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47

2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)=	97.2847.83		
over (min)	5.00	5.00	
Storage Coeff. (min)=	2.14 (ii)	11.62 (ii)	
Unit Hyd. Tpeak (min)=	5.00	5.00	
Unit Hyd. peak (cms)=	0.31	0.09	
	TOTALS		
PEAK FLOW (cms)=	0.10	0.04	0.128 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	72.70	29.63	48.57
TOTAL RAINFALL (mm)=	73.70	73.70	73.70
RUNOFF COEFFICIENT =	0.99	40	0.066

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 71.0 Ia =Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

** SIMULATION:050yr 12hr15min SCS Type II (MTO) **

| READ STORM Filename: C:\Users\RObeid\AppData
| ata\Local\Temp\
| 2dc9d38f-98e2-4608-97a8-64e21145182b\16787c54
| Ptotal= 81.65 mm | Comments: 050yr 12hr15min SCS Type II (MTO)

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.00	0.00	3.25	3.27	6.50	14.70	9.75	2.86
0.25	2.04	3.50	3.27	6.75	6.53	10.00	2.86
0.50	2.04	3.75	3.27	7.00	6.53	10.25	1.63
0.75	2.04	4.00	3.27	7.25	4.90	10.50	1.63
1.00	2.04	4.25	4.90	7.50	4.90	10.75	1.63
1.25	2.04	4.50	4.90	7.75	4.90	11.00	1.63
1.50	2.04	4.75	6.53	8.00	4.90	11.25	1.63
1.75	2.04	5.00	6.53	8.25	2.86	11.50	1.63
2.00	2.04	5.25	9.80	8.50	2.86	11.75	1.63
2.25	2.45	5.50	9.80	8.75	2.86	12.00	1.63
2.50	2.45	5.75	39.19	9.00	2.86		
2.75	2.45	6.00	107.78	9.25	2.86		
3.00	2.45	6.25	14.70	9.50	2.86		

| CALIB |
| STANDHYD (0103)| Area (ha)= 4.48
|ID= 1 DT= 5.0 min | Total Imp(%)= 32.00 Dir. Conn.(%)= 32.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.43	3.05
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	172.82	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63

1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)=
107.78
45.12

over (min)
5.00
5.00

Storage Coeff. (min)=
3.44
(ii)
13.15
(ii)

Unit Hyd. Tpeak (min)=
5.00
5.00

Unit Hyd. peak (cms)=
0.26
0.08

TOTALS

PEAK FLOW (cms)=

0.430.23

0.621 (iii)

TIME TO PEAK (hrs)=

6.256.33

6.25

RUNOFF VOLUME (mm)=

80.65

28.01

44.85

TOTAL RAINFALL (mm)=

81.65

81.65

81.65

RUNOFF COEFFICIENT =

0.99

34

0.055

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 63.0

Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |

| STANDHYD (0105)Area (ha)= 0.41

| ID= 1 DT= 5.0 min | Total Imp(%)= 56.00 Dir. Conn.(%)= 56.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.23 0.18

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.002.00

Length (m)= 52.2840.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63

2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)=	107.78	36.21
over (min)	5.00	5.00
Storage Coeff. (min)=	1.68 (ii)	12.28 (ii)
Unit Hyd. Tpeak (min)=	5.00	5.00
Unit Hyd. peak (cms)=	0.32	0.09
TOTALS		
PEAK FLOW (cms)=	0.070	0.01 0.079 (iii)
TIME TO PEAK (hrs)=	6.25	6.33 6.25
RUNOFF VOLUME (mm)=	80.65	24.33 55.85
TOTAL RAINFALL (mm)=	81.65	81.65 81.65
RUNOFF COEFFICIENT =	0.99	30 0.068

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0106)Area (ha)= 1.64
|ID= 1 DT= 5.0 min | Total Imp(%)= 45.00 Dir. Conn.(%)= 45.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.74	0.90
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	104.56	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86

0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)= 107.78 36.21

1.833 2.04 | 4.917 6.53 | 8.000 4.90 | 11.08 1.63

1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)= 107.78 34.10
over (min) 5.005.00
Storage Coeff. (min)= 2.95 (ii) 13.80 (ii)
Unit Hyd. Tpeak (min)= 5.005.00
Unit Hyd. peak (cms)= 0.28 0.08

TOTALS

PEAK FLOW (cms)= 0.34 0.09 0.419 (iii)
TIME TO PEAK (hrs)= 6.256.33 6.25
RUNOFF VOLUME (mm)= 80.65 22.97 47.77
TOTAL RAINFALL (mm)= 81.65 81.65 81.65
RUNOFF COEFFICIENT = 0.990.28 0.59

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 56.0 Ia =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (1722)| Area (ha)= 1.33
|ID= 1 DT= 5.0 min | Total Imp(%)= 47.00 Dir. Conn.(%)= 47.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.63	0.70
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	94.16	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86

0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63

3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)=	107.78	36.21	
over (min)	5.00	5.00	
Storage Coeff. (min)=	2.39 (ii)	12.99 (ii)	
Unit Hyd. Tpeak (min)=	5.00	5.00	
Unit Hyd. peak (cms)=	0.30	0.08	
TOTALS			
PEAK FLOW (cms)=	0.190.05	0.226 (iii)	
TIME TO PEAK (hrs)=	6.256.33	6.25	
RUNOFF VOLUME (mm)=	80.65	24.33	50.79
TOTAL RAINFALL (mm)=	81.65	81.65	81.65
RUNOFF COEFFICIENT =	0.990.30	0.62	

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 la =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0108)| Area (ha)= 1.23
|ID= 1 DT= 5.0 min | Total Imp(%)= 49.00 Dir. Conn.(%)= 49.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.60 0.63
 Dep. Storage (mm)= 1.00 1.50
 Average Slope (%)= 1.00 2.00
 Length (m)= 90.55 40.00
 Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63

1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)= 107.78 36.21
 over (min) 5.00 5.00

Storage Coeff. (min)= 2.34 (ii) 12.90 (i)

Unit Hyd. Tpeak (min)= 5.00 5.00

Unit Hyd. peak (cms)= 0.30 0.08

TOTALS

PEAK FLOW (cms)= 0.18 0.04 0.215 (iii)

TIME TO PEAK (hrs)= 6.25 6.33 6.25

RUNOFF VOLUME (mm)= 80.65 24.33 51.92

TOTAL RAINFALL (mm)= 81.65 81.65 81.65

RUNOFF COEFFICIENT = 0.99 30 0.0.64

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 la =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0109)Area (ha)= 0.90
|ID= 1 DT= 5.0 min | Total Imp(%)= 59.00 Dir. Conn.(%)= 59.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.53 0.37
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.002.00
Length (m)= 77.4640.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr
0.083 0.00 | 3.167 2.45 | 6.250 107.78 | 9.33 2.86

0.167 0.00 | 3.250 2.45 | 6.333 14.70 | 9.42 2.86
0.250 0.00 | 3.333 3.27 | 6.417 14.70 | 9.50 2.86
0.333 2.04 | 3.417 3.27 | 6.500 14.70 | 9.58 2.86
0.417 2.04 | 3.500 3.27 | 6.583 14.70 | 9.67 2.86
0.500 2.04 | 3.583 3.27 | 6.667 14.70 | 9.75 2.86
0.583 2.04 | 3.667 3.27 | 6.750 14.70 | 9.83 2.86
0.667 2.04 | 3.750 3.27 | 6.833 6.53 | 9.92 2.86
0.750 2.04 | 3.833 3.27 | 6.917 6.53 | 10.00 2.86
0.833 2.04 | 3.917 3.27 | 7.000 6.53 | 10.08 2.86
0.917 2.04 | 4.000 3.27 | 7.083 6.53 | 10.17 2.86
1.000 2.04 | 4.083 3.27 | 7.167 6.53 | 10.25 2.86
1.083 2.04 | 4.167 3.27 | 7.250 6.53 | 10.33 1.63
1.167 2.04 | 4.250 3.27 | 7.333 4.90 | 10.42 1.63
1.250 2.04 | 4.333 4.90 | 7.417 4.90 | 10.50 1.63
1.333 2.04 | 4.417 4.90 | 7.500 4.90 | 10.58 1.63
1.417 2.04 | 4.500 4.90 | 7.583 4.90 | 10.67 1.63
1.500 2.04 | 4.583 4.90 | 7.667 4.90 | 10.75 1.63
1.583 2.04 | 4.667 4.90 | 7.750 4.90 | 10.83 1.63
1.667 2.04 | 4.750 4.90 | 7.833 4.90 | 10.92 1.63
1.750 2.04 | 4.833 6.53 | 7.917 4.90 | 11.00 1.63
1.833 2.04 | 4.917 6.53 | 8.000 4.90 | 11.08 1.63
1.917 2.04 | 5.000 6.53 | 8.083 4.90 | 11.17 1.63
2.000 2.04 | 5.083 6.53 | 8.167 4.90 | 11.25 1.63
2.083 2.04 | 5.167 6.53 | 8.250 4.90 | 11.33 1.63
2.167 2.04 | 5.250 6.53 | 8.333 2.86 | 11.42 1.63
2.250 2.04 | 5.333 9.80 | 8.417 2.86 | 11.50 1.63
2.333 2.45 | 5.417 9.80 | 8.500 2.86 | 11.58 1.63
2.417 2.45 | 5.500 9.80 | 8.583 2.86 | 11.67 1.63
2.500 2.45 | 5.583 9.80 | 8.667 2.86 | 11.75 1.63
2.583 2.45 | 5.667 9.80 | 8.750 2.86 | 11.83 1.63

2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

| NASHYD (0141)| Area (ha)= 3.10Curve Number (CN)= 61.0
|ID= 1 DT= 5.0 min | la (mm)= 5.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.53

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

Max.Eff.Inten.(mm/hr)=	107.78	69.86
over (min)	5.00	5.00
Storage Coeff. (min)=	2.13 (ii)	10.27 (ii)
Unit Hyd. Tpeak (min)=	5.00	5.00
Unit Hyd. peak (cms)=	0.31	0.09
TOTALS		
PEAK FLOW (cms)=	0.16	0.05 0.202 (iii)
TIME TO PEAK (hrs)=	6.25	6.33 6.25
RUNOFF VOLUME (mm)=	80.65	43.50 65.41
TOTAL RAINFALL (mm)=	81.65	81.65 81.65
RUNOFF COEFFICIENT =	0.99	0.53 0.80

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 la =Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63

1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Unit Hyd Qpeak (cms)= 0.223

PEAK FLOW (cms)= 0.111 (i)

TIME TO PEAK (hrs)= 6.667

RUNOFF VOLUME (mm)= 24.577

TOTAL RAINFALL (mm)= 81.650

RUNOFF COEFFICIENT = 0.301

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD 0142)| Area (ha)= 0.72Curve Number (CN)= 58.0
|ID= 1 DT= 5.0 min | la (mm)= 5.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.20

NOTE: RAINFALL WAS TRANSFORMED TO 5.MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63

1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.046 (i)

TIME TO PEAK (hrs)= 6.333

RUNOFF VOLUME (mm)= 22.503

TOTAL RAINFALL (mm)= 81.650

RUNOFF COEFFICIENT = 0.276

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (172|)Area (ha)= 0.97
|ID= 1 DT= 5.0 min | Total Imp(%)= 37.00 Dir. Conn.(%)= 37.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.36	0.61
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	80.42	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86

1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)= 107.78 36.21
over (min) 5.005.00
Storage Coeff. (min)= 2.18 (ii) 12.77 (ii)
Unit Hyd. Tpeak (min)= 5.005.00

Unit Hyd. peak (cms)= 0.31 0.08

TOTALS
PEAK FLOW (cms)= 0.11 0.04 0.142 (iii)
TIME TO PEAK (hrs)= 6.255.33 6.25
RUNOFF VOLUME (mm)= 80.65 24.33 45.16
TOTAL RAINFALL (mm)= 81.65 81.65 81.65
RUNOFF COEFFICIENT = 0.99 30 0.055

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia =Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0101)Area (ha)= 0.41
|ID= 1 DT= 5.0 min | Total Imp(%)= 54.00 Dir. Conn.(%)= 54.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.22	0.19
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.002.00	
Length (m)=	52.2840.00	
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63

2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)=	107.78	56.32
over (min)	5.00	5.00
Storage Coeff. (min)=	1.68 (ii)	10.56 (ii)
Unit Hyd. Tpeak (min)=	5.00	5.00
Unit Hyd. peak (cms)=	0.32	0.09
TOTALS		
PEAK FLOW (cms)=	0.07	0.02 0.083 (iii)
TIME TO PEAK (hrs)=	6.25	6.25
RUNOFF VOLUME (mm)=	80.65	34.93 59.61
TOTAL RAINFALL (mm)=	81.65	81.65 81.65
RUNOFF COEFFICIENT =	0.99	43 0.0.73

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 71.0 Ia =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |

| STANDHYD (0102) Area (ha)= 0.80

| ID= 1 DT= 5.0 min | Total Imp(%)= 44.00 Dir. Conn.(%)= 44.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.35 0.45

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.002.00

Length (m)= 73.0340.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME RAIN | TIME RAIN |' TIME RAIN |TIME RAIN

hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr

0.083 0.00 | 3.167 2.45 | 6.250 107.78 | 9.33 2.86

0.167 0.00 | 3.250 2.45 | 6.333 14.70 | 9.42 2.86

0.250 0.00 | 3.333 3.27 | 6.417 14.70 | 9.50 2.86

0.333 2.04 | 3.417 3.27 | 6.500 14.70 | 9.58 2.86

0.417 2.04 | 3.500 3.27 | 6.583 14.70 | 9.67 2.86

0.500 2.04 | 3.583 3.27 | 6.667 14.70 | 9.75 2.86

0.583 2.04 | 3.667 3.27 | 6.750 14.70 | 9.83 2.86

0.667 2.04 | 3.750 3.27 | 6.833 6.53 | 9.92 2.86

0.750 2.04 | 3.833 3.27 | 6.917 6.53 | 10.00 2.86

0.833 2.04 | 3.917 3.27 | 7.000 6.53 | 10.08 2.86

0.917 2.04 | 4.000 3.27 | 7.083 6.53 | 10.17 2.86

1.000 2.04 | 4.083 3.27 | 7.167 6.53 | 10.25 2.86

1.083 2.04 | 4.167 3.27 | 7.250 6.53 | 10.33 1.63

1.167 2.04 | 4.250 3.27 | 7.333 4.90 | 10.42 1.63

1.250 2.04 | 4.333 4.90 | 7.417 4.90 | 10.50 1.63

1.333 2.04 | 4.417 4.90 | 7.500 4.90 | 10.58 1.63

1.417 2.04 | 4.500 4.90 | 7.583 4.90 | 10.67 1.63

1.500 2.04 | 4.583 4.90 | 7.667 4.90 | 10.75 1.63

1.583 2.04 | 4.667 4.90 | 7.750 4.90 | 10.83 1.63

1.667 2.04 | 4.750 4.90 | 7.833 4.90 | 10.92 1.63

1.750 2.04 | 4.833 6.53 | 7.917 4.90 | 11.00 1.63

1.833 2.04 | 4.917 6.53 | 8.000 4.90 | 11.08 1.63

1.917 2.04 | 5.000 6.53 | 8.083 4.90 | 11.17 1.63

2.000 2.04 | 5.083 6.53 | 8.167 4.90 | 11.25 1.63

2.083 2.04 | 5.167 6.53 | 8.250 4.90 | 11.33 1.63

2.167 2.04 | 5.250 6.53 | 8.333 2.86 | 11.42 1.63

2.250 2.04 | 5.333 9.80 | 8.417 2.86 | 11.50 1.63

2.333 2.45 | 5.417 9.80 | 8.500 2.86 | 11.58 1.63

2.417 2.45 | 5.500 9.80 | 8.583 2.86 | 11.67 1.63

2.500 2.45 | 5.583 9.80 | 8.667 2.86 | 11.75 1.63

2.583 2.45 | 5.667 9.80 | 8.750 2.86 | 11.83 1.63

2.667 2.45 | 5.750 9.80 | 8.833 2.86 | 11.92 1.63

2.750 2.45 | 5.833 39.19 | 8.917 2.86 | 12.00 1.63

2.833 2.45 | 5.917 39.19 | 9.000 2.86 | 12.08 1.63

2.917 2.45 | 6.000 39.19 | 9.083 2.86 | 12.17 1.63

3.000 2.45 | 6.083 107.78 | 9.167 2.86 | 12.25 1.63

3.083 2.45 | 6.167 107.78 | 9.250 2.86 |

Max.Eff.Inten.(mm/hr)= 107.78 56.32
over (min) 5.005.00
Storage Coeff. (min)= 2.05 (ii) 10.93 (ii)
Unit Hyd. Tpeak (min)= 5.005.00
Unit Hyd. peak (cms)= 0.31 0.09
TOTALS
PEAK FLOW (cms)= 0.11 0.05 0.145 (iii)
TIME TO PEAK (hrs)= 6.256.33 6.25
RUNOFF VOLUME (mm)= 80.65 34.93 55.04
TOTAL RAINFALL (mm)= 81.65 81.65 81.65
RUNOFF COEFFICIENT = 0.990.43 0.67

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 71.0 la =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

** SIMULATION:100yr 12hr15min SCS Type II (MTO) **

| READ STORM Filename: C:\Users\RObeid\AppData
| ata\Local\Temp\
| 2dc9d38f-98e2-4608-97a8-64e21145182b\08916079
| Ptotal= 89.60mm | Comments: 100yr 12hr15min SCS Type II (MTO)

TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.00 0.00 | 3.25 3.58 | 6.50 16.13 | 9.75 3.14
0.25 2.24 | 3.50 3.58 | 6.75 7.17 | 10.00 3.14
0.50 2.24 | 3.75 3.58 | 7.00 7.17 | 10.25 1.79
0.75 2.24 | 4.00 3.58 | 7.25 5.38 | 10.50 1.79
1.00 2.24 | 4.25 5.38 | 7.50 5.38 | 10.75 1.79
1.25 2.24 | 4.50 5.38 | 7.75 5.38 | 11.00 1.79
1.50 2.24 | 4.75 7.17 | 8.00 5.38 | 11.25 1.79
1.75 2.24 | 5.00 7.17 | 8.25 3.14 | 11.50 1.79
2.00 2.24 | 5.25 10.75 | 8.50 3.14 | 11.75 1.79
2.25 2.69 | 5.50 10.75 | 8.75 3.14 | 12.00 1.79
2.50 2.69 | 5.75 43.01 | 9.00 3.14 |
2.75 2.69 | 6.00 118.27 | 9.25 3.14 |
3.00 2.69 | 6.25 16.13 | 9.50 3.14 |

| CALIB |
| STANDHYD (0103) | Area (ha)= 4.48
| ID= 1 DT= 5.0 min | Total Imp(%)= 32.00 Dir. Conn.(%)= 32.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 1.43 3.05
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.002.00
Length (m)= 172.82 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79

2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)=	118.27	52.67
over (min)	5.00	5.00
Storage Coeff. (min)=	3.32 (ii)	12.44 (ii)
Unit Hyd. Tpeak (min)=	5.00	5.00
Unit Hyd. peak (cms)=	0.26	0.08
TOTALS		
PEAK FLOW (cms)=	0.47	0.27
TIME TO PEAK (hrs)=	6.25	6.25
RUNOFF VOLUME (mm)=	88.60	32.71
TOTAL RAINFALL (mm)=	89.60	89.60
RUNOFF COEFFICIENT =	0.99	0.37
		0.56

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 63.0 la =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0105)Area (ha)= 0.41
|ID= 1 DT= 5.0 min | Total Imp(%)= 56.00 Dir. Conn.(%)= 56.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.23 0.18
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.002.00
Length (m)= 52.2840.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14

0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79

3.083 2.69 | 6.167 118.27 | 9.250 3.14 |

Max.Eff.Inten.(mm/hr)= 118.27 45.87
over (min) 5.00 5.00

Storage Coeff. (min)= 1.62 (ii) 11.26 (ii)

Unit Hyd. Tpeak (min)= 5.00 5.00

Unit Hyd. peak (cms)= 0.32 0.09

TOTALS

PEAK FLOW (cms)= 0.080 0.01 0.088 (iii)

TIME TO PEAK (hrs)= 6.25 6.33 6.25

RUNOFF VOLUME (mm)= 88.60 28.53 62.15

TOTAL RAINFALL (mm)= 89.60 89.60 89.60

RUNOFF COEFFICIENT = 0.990 0.32 0.69

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 la =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |

| STANDHYD (0106)| Area (ha)= 1.64

|ID= 1 DT= 5.0 min | Total Imp(%)= 45.00 Dir. Conn.(%)= 45.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.74 0.90

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.00 2.00

Length (m)= 104.56 40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79

1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)= 118.27 45.87
over (min) 5.005.00
Storage Coeff. (min)= 2.45 (ii) 12.09 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.30 0.09

TOTALS

PEAK FLOW (cms)= 0.240.07 0.303 (iii)
TIME TO PEAK (hrs)= 6.256.33 6.25
RUNOFF VOLUME (mm)= 88.60 28.53 55.56
TOTAL RAINFALL (mm)= 89.60 89.60 89.60
RUNOFF COEFFICIENT = 0.99 32 0.0.62

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia =Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (017|)Area (ha)= 2.67
|ID= 1 DT= 5.0 min | Total Imp(%)= 43.00 Dir. Conn.(%)= 43.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.15	1.52
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	133.42	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14

0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79

2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)=	118.27	43.35
over (min)	5.00	5.00
Storage Coeff. (min)=	2.84 (ii)	12.70 (ii)
Unit Hyd. Tpeak (min)=	5.00	5.00
Unit Hyd. peak (cms)=	0.28	0.08
TOTALS		
PEAK FLOW (cms)=	0.38	0.11 0.471 (iii)
TIME TO PEAK (hrs)=	6.25	6.25
RUNOFF VOLUME (mm)=	88.60	26.98 53.47
TOTAL RAINFALL (mm)=	89.60	89.60 89.60
RUNOFF COEFFICIENT =	0.99	0.30 0.60

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 56.0 la =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (1722)| Area (ha)= 1.33

|ID= 1 DT= 5.0 min | Total Imp(%)= 47.00 Dir. Conn.(%)= 47.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.63	0.70
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	94.16	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79

1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)= 118.27 45.87
over (min) 5.005.00

Storage Coeff. (min)= 2.30 (ii) 11.94 (ii)

Unit Hyd. Tpeak (min)= 5.005.00

Unit Hyd. peak (cms)= 0.30 0.09

TOTALS

PEAK FLOW (cms)= 0.210.06 0.253 (iii)

TIME TO PEAK (hrs)= 6.256.33 6.25
 RUNOFF VOLUME (mm)= 88.60 28.53 56.76
 TOTAL RAINFALL (mm)= 89.60 89.60 89.60
 RUNOFF COEFFICIENT = 0.99 32 0.0.63

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 la =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |

| STANDHYD (010B)Area (ha)= 1.23

|ID= 1 DT= 5.0 min | Total Imp(%)= 49.00 Dir. Conn.(%)= 49.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.60 0.63

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.002.00

Length (m)= 90.5540.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79

2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)= 118.27 45.87
over (min) 5.005.00

Storage Coeff. (min)= 2.25 (ii) 11.89 (ii)

Unit Hyd. Tpeak (min)= 5.005.00

Unit Hyd. peak (cms)= 0.30 0.09

TOTALS

PEAK FLOW (cms)= 0.20 0.05 0.241 (iii)
TIME TO PEAK (hrs)= 6.256.33 6.25
RUNOFF VOLUME (mm)= 88.60 28.53 57.96
TOTAL RAINFALL (mm)= 89.60 89.60 89.60
RUNOFF COEFFICIENT = 0.990.32 0.65

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0109)| Area (ha)= 0.90
|ID= 1 DT= 5.0 min | Total Imp(%)= 59.00 Dir. Conn.(%)= 59.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.53 0.37
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.002.00
Length (m)= 77.4640.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14

1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)= 118.27 79.86
over (min) 5.000.00
Storage Coeff. (min)= 2.05 (ii) 9.77 (ii)

Unit Hyd. Tpeak (min)= 5.000.00
Unit Hyd. peak (cms)= 0.31 0.11

TOTALS
PEAK FLOW (cms)= 0.170.06 0.234 (iii)
TIME TO PEAK (hrs)= 6.256.25 6.25
RUNOFF VOLUME (mm)= 88.60 49.88 72.71
TOTAL RAINFALL (mm)= 89.60 89.60 89.60
RUNOFF COEFFICIENT = 0.99 56 0.0.81

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia =Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| NASHYD Ø141| Area (ha)= 3.10Curve Number (CN)= 61.0
|ID= 1 DT= 5.0 min | Ia (mm)= 5.00 # of Linear Res.(N)= 3.00
----- U.H. Tp(hrs)= 0.53

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN |' TIME RAIN |TIME RAIN
hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr

0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79

2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Unit Hyd Qpeak (cms)= 0.223

PEAK FLOW (cms)= 0.132 (i)

TIME TO PEAK (hrs)= 6.667

RUNOFF VOLUME (mm)= 28.976

TOTAL RAINFALL (mm)= 89.600

RUNOFF COEFFICIENT = 0.323

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

 | CALIB |
 | NASHYD Ø142| Area (ha)= 0.72Curve Number (CN)= 58.0
 |ID= 1 DT= 5.0 min | la (mm)= 5.00 # of Linear Res.(N)= 3.00
 ----- U.H. Tp(hrs)= 0.20

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
 TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN

hrs	mm/hr		hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	0.00		3.167	2.69		6.250	118.27		9.33	3.14
0.167	0.00		3.250	2.69		6.333	16.13		9.42	3.14
0.250	0.00		3.333	3.58		6.417	16.13		9.50	3.14
0.333	2.24		3.417	3.58		6.500	16.13		9.58	3.14
0.417	2.24		3.500	3.58		6.583	16.13		9.67	3.14
0.500	2.24		3.583	3.58		6.667	16.13		9.75	3.14
0.583	2.24		3.667	3.58		6.750	16.13		9.83	3.14
0.667	2.24		3.750	3.58		6.833	7.17		9.92	3.14
0.750	2.24		3.833	3.58		6.917	7.17		10.00	3.14
0.833	2.24		3.917	3.58		7.000	7.17		10.08	3.14
0.917	2.24		4.000	3.58		7.083	7.17		10.17	3.14
1.000	2.24		4.083	3.58		7.167	7.17		10.25	3.14
1.083	2.24		4.167	3.58		7.250	7.17		10.33	1.79
1.167	2.24		4.250	3.58		7.333	5.38		10.42	1.79
1.250	2.24		4.333	5.38		7.417	5.38		10.50	1.79
1.333	2.24		4.417	5.38		7.500	5.38		10.58	1.79
1.417	2.24		4.500	5.38		7.583	5.38		10.67	1.79
1.500	2.24		4.583	5.38		7.667	5.38		10.75	1.79
1.583	2.24		4.667	5.38		7.750	5.38		10.83	1.79
1.667	2.24		4.750	5.38		7.833	5.38		10.92	1.79
1.750	2.24		4.833	7.17		7.917	5.38		11.00	1.79
1.833	2.24		4.917	7.17		8.000	5.38		11.08	1.79
1.917	2.24		5.000	7.17		8.083	5.38		11.17	1.79
2.000	2.24		5.083	7.17		8.167	5.38		11.25	1.79
2.083	2.24		5.167	7.17		8.250	5.38		11.33	1.79
2.167	2.24		5.250	7.17		8.333	3.14		11.42	1.79
2.250	2.24		5.333	10.75		8.417	3.14		11.50	1.79
2.333	2.69		5.417	10.75		8.500	3.14		11.58	1.79
2.417	2.69		5.500	10.75		8.583	3.14		11.67	1.79

2.500	2.69		5.583	10.75		8.667	3.14		11.75	1.79
2.583	2.69		5.667	10.75		8.750	3.14		11.83	1.79
2.667	2.69		5.750	10.75		8.833	3.14		11.92	1.79
2.750	2.69		5.833	43.01		8.917	3.14		12.00	1.79
2.833	2.69		5.917	43.01		9.000	3.14		12.08	1.79
2.917	2.69		6.000	43.01		9.083	3.14		12.17	1.79
3.000	2.69		6.083	118.27		9.167	3.14		12.25	1.79
3.083	2.69		6.167	118.27		9.250	3.14			

Unit Hyd Qpeak (cms)= 0.138

PEAK FLOW (cms)= 0.055 (i)

TIME TO PEAK (hrs)= 6.333

RUNOFF VOLUME (mm)= 26.602

TOTAL RAINFALL (mm)= 89.600

RUNOFF COEFFICIENT = 0.297

(i) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |

| STANDHYD (1721)| Area (ha)= 0.97

|ID= 1 DT= 5.0 min | Total Imp(%)= 37.00 Dir. Conn.(%)= 37.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.36	0.61
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	80.42	40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79

1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)= 118.27 45.87

over (min) 5.005.00

Storage Coeff. (min)= 2.10 (ii) 11.74 (ii)

Unit Hyd. Tpeak (min)= 5.005.00

Unit Hyd. peak (cms)= 0.31 0.09

TOTALS

PEAK FLOW (cms)= 0.120.05 0.160 (iii)

TIME TO PEAK (hrs)= 6.256.33 6.25

RUNOFF VOLUME (mm)= 88.60 28.53 50.75

TOTAL RAINFALL (mm)= 89.60 89.60 89.60

RUNOFF COEFFICIENT = 0.990.32 0.57

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (010fl)Area (ha)= 0.41
|ID= 1 DT= 5.0 min | Total Imp(%)= 54.00 Dir. Conn.(%)= 54.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.22	0.19
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	52.28	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14

0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79

3.000 2.69 | 6.083 118.27 | 9.167 3.14 | 12.25 1.79
3.083 2.69 | 6.167 118.27 | 9.250 3.14 |

Max.Eff.Inten.(mm/hr)= 118.27 65.15
over (min) 5.000.00
Storage Coeff. (min)= 1.62 (ii) 10.00 (ii)
Unit Hyd. Tpeak (min)= 5.000.00
Unit Hyd. peak (cms)= 0.32 0.11

TOTALS

PEAK FLOW (cms)= 0.070.02 0.097 (iii)
TIME TO PEAK (hrs)= 6.256.25 6.25
RUNOFF VOLUME (mm)= 88.60 40.46 66.44
TOTAL RAINFALL (mm)= 89.60 89.60 89.60
RUNOFF COEFFICIENT = 0.990.45 0.74

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 71.0 Ia =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |

| STANDHYD (0102)Area (ha)= 0.80

|ID= 1 DT= 5.0 min | Total Imp(%)= 44.00 Dir. Conn.(%)= 44.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.35 0.45
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.002.00
Length (m)= 73.0340.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79

1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)=	118.27	65.15	
over (min)	5.00	5.00	
Storage Coeff. (min)=	1.98 (ii)	10.36 (ii)	
Unit Hyd. Tpeak (min)=	5.00	5.00	
Unit Hyd. peak (cms)=	0.31	0.09	
TOTALS			
PEAK FLOW (cms)=	0.120.05	0.163 (iii)	
TIME TO PEAK (hrs)=	6.25	6.25	
RUNOFF VOLUME (mm)=	88.60	40.46	61.63
TOTAL RAINFALL (mm)=	89.60	89.60	89.60

RUNOFF COEFFICIENT = 0.990.45 0.69

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 71.0 Ia =Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

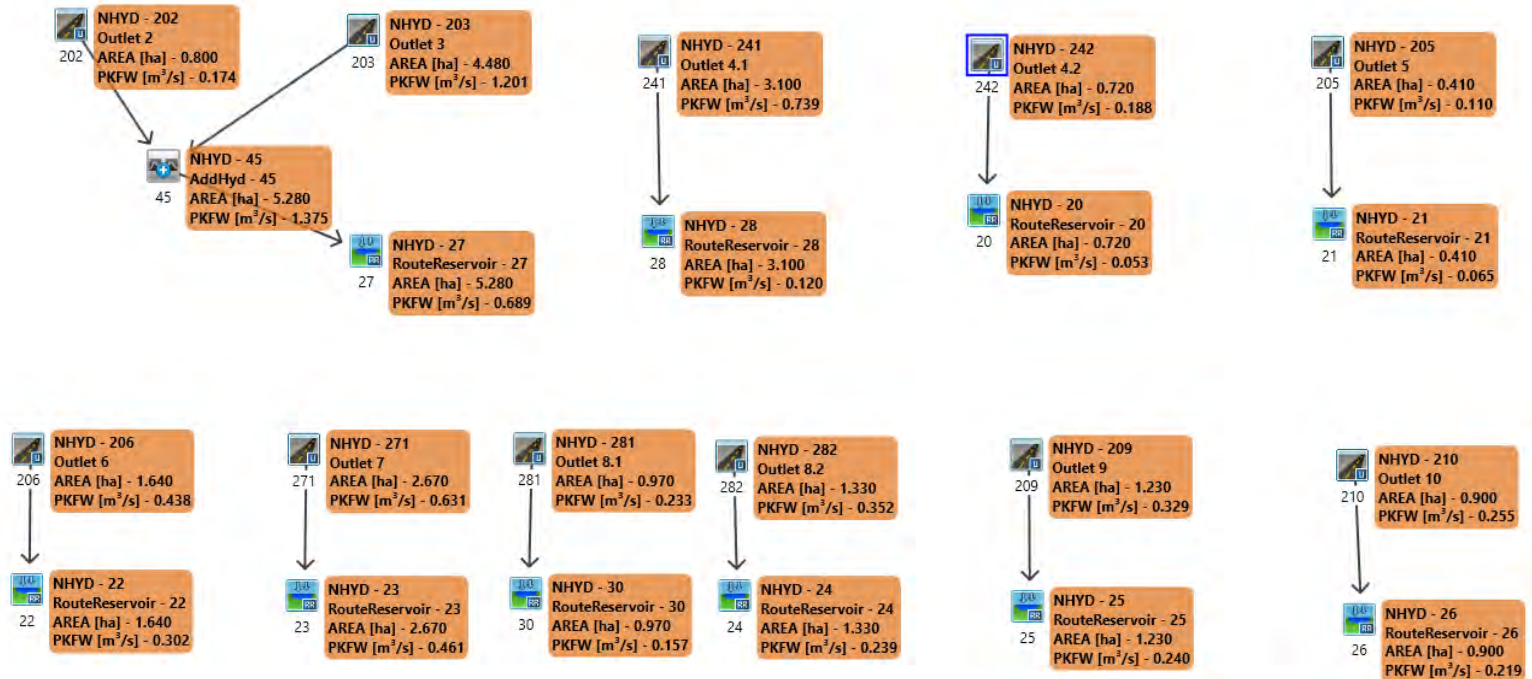
APPENDIX C2: PROPOSED

Project: Teston Rd.
Project No.: 190261800
Date: Friday, July 21, 2023
Modelled by: R.Obeid
Checked by: J. Dai

Summary of VO2 Parameters

	Catchment ID	Hydrograph Classification	T _p Method	Total Drainage Area (ha)	IA (mm)	Weighted Runoff Coeff.	Modified CN Value	Time to Peak, T _p (hr)	Percent Imperv. (%)
ROW	201	STANDHYD	-	0.41	1.50	0.65	71	-	54
	202	STANDHYD	-	0.80	1.50	0.63	71	-	50
	203	STANDHYD	-	4.48	1.50	0.74	67	-	71
	241	STANDHYD	-	3.10	1.50	0.67	58	-	66
	242	STANDHYD	-	0.72	1.50	0.69	58	-	69
	205	STANDHYD	-	0.41	1.50	0.72	58	-	73
	206	STANDHYD	-	1.64	1.50	0.71	58	-	73
	271	STANDHYD	-	2.67	1.50	0.59	58	-	66
	271a	STANDHYD	-	0.97	1.50	0.00	58	-	66
	271b	STANDHYD	-	1.33	1.50	0.71	58	-	72
	208	STANDHYD	-	1.23	1.50	0.72	58	-	73
External	208	STANDHYD	-	0.90	1.50	0.79	79	-	69
	1	STANDHYD	-	19.32	1.50	0.51	63	-	31
	2	NASHYD	Airport	2.01	5.00	0.30	64	0.21	12
	3	NASHYD	Airport	4.63	5.00	0.22	58	0.53	5
	4	STANDHYD	-	16.90	1.50	0.29	43	-	21
	5	NASHYD	Airport	93.22	5.00	0.22	53	1.29	12
	6	STANDHYD	-	8.77	1.50	0.65	58	-	64

VO Schematic - 100Yr - 12hr - 15min SCS Type II



VO DETAIL OUTPUT

** SIMULATION:005yr 12hr 15min SCS Type II (MTO) **

| READ STORM | Filename: C:\Users\RObeid\AppData
| | ata\Local\Temp\
| | f159238a-5f00-4f05-ac5e-db202b2121bc\cf7cd77a
| Ptotal= 53.02 mm | Comments: 005yr 12hr 15min SCS Type II (MTO)

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN	
hrs	mm/hr	hrs	mm/hr	'	hrs	mm/hr	hrs	mm/hr
0.00	0.00	3.25	2.12	6.50	9.54	9.75	1.86	
0.25	1.33	3.50	2.12	6.75	4.24	10.00	1.86	
0.50	1.33	3.75	2.12	7.00	4.24	10.25	1.06	
0.75	1.33	4.00	2.12	7.25	3.18	10.50	1.06	
1.00	1.33	4.25	3.18	7.50	3.18	10.75	1.06	
1.25	1.33	4.50	3.18	7.75	3.18	11.00	1.06	
1.50	1.33	4.75	4.24	8.00	3.18	11.25	1.06	
1.75	1.33	5.00	4.24	8.25	1.86	11.50	1.06	
2.00	1.33	5.25	6.36	8.50	1.86	11.75	1.06	
2.25	1.59	5.50	6.36	8.75	1.86	12.00	1.06	
2.50	1.59	5.75	25.45	9.00	1.86			
2.75	1.59	6.00	69.99	9.25	1.86			
3.00	1.59	6.25	9.54	9.50	1.86			

| CALIB |
| STANDHYD (0242)| Area (ha)= 0.72
|ID= 1 DT= 5.0 min | Total Imp(%)= 70.00 Dir. Conn.(%)= 70.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)= 0.50	0.22
Dep. Storage	(mm)= 1.00	1.50
Average Slope	(%)= 1.00	2.00
Length	(m)= 69.28	40.00
Mannings n	= 0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----								
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN	
hrs	mm/hr	hrs	mm/hr	'	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86	
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86	
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86	
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86	
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86	
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86	
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86	
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86	
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86	
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86	
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86	
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86	
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06	
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06	
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06	
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06	
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06	
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06	
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06	
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06	
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06	

1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)= 69.99 16.61

over (min) 5.00 20.00

Storage Coeff. (min)= 2.36 (ii) 16.84 (ii)

Unit Hyd. Tpeak (min)= 5.00 20.00

Unit Hyd. peak (cms)= 0.30 0.06

TOTALS

PEAK FLOW (cms)= 0.10 0.01 0.102 (iii)

TIME TO PEAK (hrs)= 6.25 6.42 6.25

RUNOFF VOLUME (mm)= 52.02 11.27 39.78

TOTAL RAINFALL (mm)= 53.02 53.02 53.02

RUNOFF COEFFICIENT = 0.98 0.21 0.75

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0020)| OVERFLOW IS OFF

| IN= 2--> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

----- (cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.0600 0.0240

AREA QPEAK TPEAK R.V.

(ha) (cms) (hrs) (mm)

INFLOW : ID= 2 (0242) 0.720 0.102 6.25 39.78

OUTFLOW: ID= 1 (0020) 0.720 0.029 6.33 39.65

PEAK FLOW REDUCTION [Qout/Qin](%)= 28.75

TIME SHIFT OF PEAK FLOW (min)= 5.00

MAXIMUM STORAGE USED (ha.m.)= 0.0117

| CALIB |

| STANDHYD (0205)| Area (ha)= 0.41

|ID= 1 DT= 5.0 min | Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.30 0.11

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.00 2.00

Length (m)= 52.28 40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06

2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)= 69.99 16.61
over (min) 5.00 20.00
Storage Coeff. (min)= 2.00 (ii) 16.47 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.31 0.06

TOTALS
PEAK FLOW (cms)= 0.06 0.00 0.060 (iii)
TIME TO PEAK (hrs)= 6.25 6.42 6.25
RUNOFF VOLUME (mm)= 52.02 11.27 40.99
TOTAL RAINFALL (mm)= 53.02 53.02 53.02
RUNOFF COEFFICIENT = 0.98 0.21 0.77

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0021)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.0880 0.0100

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)

INFLOW : ID= 2 (0205) 0.410 0.060 6.25 40.99

OUTFLOW: ID= 1 (0021) 0.410 0.036 6.33 40.94

PEAK FLOW REDUCTION [Qout/Qin](%)= 59.46

TIME SHIFT OF PEAK FLOW (min)= 5.00

MAXIMUM STORAGE USED (ha.m.)= 0.0044

| CALIB |

| STANDHYD (0206)| Area (ha)= 1.64

|ID= 1 DT= 5.0 min | Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 1.20 0.44

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.00 2.00

Length (m)= 104.56 40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

--- TRANSFORMED HYETOGRAPH ---

TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN

hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr

0.083 0.00 | 3.167 1.59 | 6.250 69.98 | 9.33 1.86

0.167 0.00 | 3.250 1.59 | 6.333 9.54 | 9.42 1.86

0.250 0.00 | 3.333 2.12 | 6.417 9.54 | 9.50 1.86

0.333 1.33 | 3.417 2.12 | 6.500 9.54 | 9.58 1.86

0.417 1.33 | 3.500 2.12 | 6.583 9.54 | 9.67 1.86

0.500 1.33 | 3.583 2.12 | 6.667 9.54 | 9.75 1.86

0.583 1.33 | 3.667 2.12 | 6.750 9.54 | 9.83 1.86

0.667 1.33 | 3.750 2.12 | 6.833 4.24 | 9.92 1.86

0.750 1.33 | 3.833 2.12 | 6.917 4.24 | 10.00 1.86

0.833 1.33 | 3.917 2.12 | 7.000 4.24 | 10.08 1.86

0.917 1.33 | 4.000 2.12 | 7.083 4.24 | 10.17 1.86

1.000 1.33 | 4.083 2.12 | 7.167 4.24 | 10.25 1.86

1.083 1.33 | 4.167 2.12 | 7.250 4.24 | 10.33 1.06

1.167 1.33 | 4.250 2.12 | 7.333 3.18 | 10.42 1.06

1.250 1.33 | 4.333 3.18 | 7.417 3.18 | 10.50 1.06

1.333 1.33 | 4.417 3.18 | 7.500 3.18 | 10.58 1.06

1.417 1.33 | 4.500 3.18 | 7.583 3.18 | 10.67 1.06

1.500 1.33 | 4.583 3.18 | 7.667 3.18 | 10.75 1.06

1.583 1.33 | 4.667 3.18 | 7.750 3.18 | 10.83 1.06

1.667 1.33 | 4.750 3.18 | 7.833 3.18 | 10.92 1.06

1.750 1.33 | 4.833 4.24 | 7.917 3.18 | 11.00 1.06

1.833 1.33 | 4.917 4.24 | 8.000 3.18 | 11.08 1.06

1.917 1.33 | 5.000 4.24 | 8.083 3.18 | 11.17 1.06

2.000 1.33 | 5.083 4.24 | 8.167 3.18 | 11.25 1.06

2.083 1.33 | 5.167 4.24 | 8.250 3.18 | 11.33 1.06

2.167 1.33 | 5.250 4.24 | 8.333 1.86 | 11.42 1.06

2.250 1.33 | 5.333 6.36 | 8.417 1.86 | 11.50 1.06

2.333 1.59 | 5.417 6.36 | 8.500 1.86 | 11.58 1.06

2.417 1.59 | 5.500 6.36 | 8.583 1.86 | 11.67 1.06

2.500 1.59 | 5.583 6.36 | 8.667 1.86 | 11.75 1.06

2.583 1.59 | 5.667 6.36 | 8.750 1.86 | 11.83 1.06

2.667 1.59 | 5.750 6.36 | 8.833 1.86 | 11.92 1.06

2.750 1.59 | 5.833 25.45 | 8.917 1.86 | 12.00 1.06

2.833 1.59 | 5.917 25.45 | 9.000 1.86 | 12.08 1.06

2.917 1.59 | 6.000 25.45 | 9.083 1.86 | 12.17 1.06

3.000 1.59 | 6.083 69.99 | 9.167 1.86 | 12.25 1.06

3.083 1.59 | 6.167 69.99 | 9.250 1.86 |

Max.Eff.Inten.(mm/hr)= 69.99 16.61
over (min) 5.00 20.00
Storage Coeff. (min)= 3.03 (ii) 17.50 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.27 0.06

TOTALS

PEAK FLOW (cms)= 0.23 0.01 0.239 (iii)
TIME TO PEAK (hrs)= 6.25 6.42 6.25
RUNOFF VOLUME (mm)= 52.02 11.27 41.01
TOTAL RAINFALL (mm)= 53.02 53.02 53.02
RUNOFF COEFFICIENT = 0.98 0.21 0.77

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0022)| OVERFLOW IS OFF
| IN= 2--> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
(cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.3030 0.0230

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0206) 1.640 0.239 6.25 41.01
OUTFLOW: ID= 1 (0022) 1.640 0.166 6.25 41.01

PEAK FLOW REDUCTION [Qout/Qin](%)= 69.28
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0137

| CALIB |
| STANDHYD (0271)| Area (ha)= 2.67
|ID= 1 DT= 5.0 min | Total Imp(%)= 65.00 Dir. Conn.(%)= 65.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 1.74 0.93
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 133.42 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

--- TRANSFORMED HYETOGRAPH ---

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86

1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)= 69.99 16.61
over (min) 5.00 20.00

Storage Coeff. (min)= 3.50 (ii) 17.97 (ii)

Unit Hyd. Tpeak (min)= 5.00 20.00

Unit Hyd. peak (cms)= 0.26 0.06

TOTALS

PEAK FLOW (cms)= 0.33 0.02 0.350 (iii)

TIME TO PEAK (hrs)= 6.25 6.42 6.25
RUNOFF VOLUME (mm)= 52.02 11.27 37.75
TOTAL RAINFALL (mm)= 53.02 53.02 53.02
RUNOFF COEFFICIENT = 0.98 0.21 0.71

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0023)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.4710 0.0300

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0271) 2.670 0.350 6.25 37.75
OUTFLOW: ID= 1 (0023) 2.670 0.256 6.25 37.75

PEAK FLOW REDUCTION [Qout/Qin](%)= 73.24

TIME SHIFT OF PEAK FLOW (min)= 0.00

MAXIMUM STORAGE USED (ha.m.)= 0.0177

| CALIB |
| STANDHYD (0282)| Area (ha)= 1.33

|ID= 1 DT= 5.0 min | Total Imp(%)= 72.00 Dir. Conn.(%)= 72.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.96	0.37
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	94.16	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00 3.167	1.59 6.250	69.98 9.33	1.86			
0.167	0.00 3.250	1.59 6.333	9.54 9.42	1.86			
0.250	0.00 3.333	2.12 6.417	9.54 9.50	1.86			
0.333	1.33 3.417	2.12 6.500	9.54 9.58	1.86			
0.417	1.33 3.500	2.12 6.583	9.54 9.67	1.86			
0.500	1.33 3.583	2.12 6.667	9.54 9.75	1.86			
0.583	1.33 3.667	2.12 6.750	9.54 9.83	1.86			
0.667	1.33 3.750	2.12 6.833	4.24 9.92	1.86			
0.750	1.33 3.833	2.12 6.917	4.24 10.00	1.86			
0.833	1.33 3.917	2.12 7.000	4.24 10.08	1.86			
0.917	1.33 4.000	2.12 7.083	4.24 10.17	1.86			
1.000	1.33 4.083	2.12 7.167	4.24 10.25	1.86			
1.083	1.33 4.167	2.12 7.250	4.24 10.33	1.06			
1.167	1.33 4.250	2.12 7.333	3.18 10.42	1.06			
1.250	1.33 4.333	3.18 7.417	3.18 10.50	1.06			
1.333	1.33 4.417	3.18 7.500	3.18 10.58	1.06			
1.417	1.33 4.500	3.18 7.583	3.18 10.67	1.06			
1.500	1.33 4.583	3.18 7.667	3.18 10.75	1.06			
1.583	1.33 4.667	3.18 7.750	3.18 10.83	1.06			

1.667	1.33 4.750	3.18 7.833	3.18 10.92	1.06
1.750	1.33 4.833	4.24 7.917	3.18 11.00	1.06
1.833	1.33 4.917	4.24 8.000	3.18 11.08	1.06
1.917	1.33 5.000	4.24 8.083	3.18 11.17	1.06
2.000	1.33 5.083	4.24 8.167	3.18 11.25	1.06
2.083	1.33 5.167	4.24 8.250	3.18 11.33	1.06
2.167	1.33 5.250	4.24 8.333	1.86 11.42	1.06
2.250	1.33 5.333	6.36 8.417	1.86 11.50	1.06
2.333	1.59 5.417	6.36 8.500	1.86 11.58	1.06
2.417	1.59 5.500	6.36 8.583	1.86 11.67	1.06
2.500	1.59 5.583	6.36 8.667	1.86 11.75	1.06
2.583	1.59 5.667	6.36 8.750	1.86 11.83	1.06
2.667	1.59 5.750	6.36 8.833	1.86 11.92	1.06
2.750	1.59 5.833	25.45 8.917	1.86 12.00	1.06
2.833	1.59 5.917	25.45 9.000	1.86 12.08	1.06
2.917	1.59 6.000	25.45 9.083	1.86 12.17	1.06
3.000	1.59 6.083	69.99 9.167	1.86 12.25	1.06
3.083	1.59 6.167	69.99 9.250	1.86	

Max.Eff.Inten.(mm/hr)=	69.99	16.61
over (min)	5.00	20.00
Storage Coeff. (min)=	2.84 (ii)	17.31 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.28	0.06

TOTALS			
PEAK FLOW (cms)=	0.19	0.01	0.192 (iii)
TIME TO PEAK (hrs)=	6.25	6.42	6.25
RUNOFF VOLUME (mm)=	52.02	11.27	40.60
TOTAL RAINFALL (mm)=	53.02	53.02	53.02
RUNOFF COEFFICIENT =	0.98	0.21	0.77

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06

RESERVOIR(0024) OVERFLOW IS OFF							
IN= 2--> OUT= 1							
DT= 5.0 min OUTFLOW STORAGE OUTFLOW STORAGE							
----- (cms) (ha.m.) (cms) (ha.m.)							
0.0000 0.0000 0.2530 0.0200							
AREA QPEAK TPEAK R.V.							
(ha) (cms) (hrs) (mm)							
INFLOW : ID= 2 (0282) 1.330 0.192 6.25 40.60							
OUTFLOW: ID= 1 (0024) 1.330 0.131 6.25 40.59							
PEAK FLOW REDUCTION [Qout/Qin](%)= 68.36							
TIME SHIFT OF PEAK FLOW (min)= 0.00							
MAXIMUM STORAGE USED (ha.m.)= 0.0113							

CALIB							
STANDHYD(0209) Area (ha)= 1.23							
ID= 1 DT= 5.0 min Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00							

IMPERVIOUS PERVIOUS (i)			
Surface Area	(ha)=	0.90	0.33
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	1.00	2.00
Length	(m)=	90.55	40.00
Mannings n	=	0.013	0.250

2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)= 69.99 16.61
over (min) 5.00 20.00
Storage Coeff. (min)= 2.78 (ii) 17.25 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.28 0.06

TOTALS
PEAK FLOW (cms)= 0.17 0.01 0.180 (iii)
TIME TO PEAK (hrs)= 6.25 6.42 6.25
RUNOFF VOLUME (mm)= 52.02 11.27 41.01
TOTAL RAINFALL (mm)= 53.02 53.02 53.02
RUNOFF COEFFICIENT = 0.98 0.21 0.77

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0025)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.2410 0.0160

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0209) 1.230 0.180 6.25 41.01
OUTFLOW: ID= 1 (0025) 1.230 0.132 6.25 41.00

PEAK FLOW REDUCTION [Qout/Qin](%)= 73.67
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0095

| CALIB |
| STANDHYD (0210)| Area (ha)= 0.90
|ID= 1 DT= 5.0 min | Total Imp(%)= 69.00 Dir. Conn.(%)= 69.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.62 0.28
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 77.46 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr
0.083 0.00 | 3.167 1.59 | 6.250 69.98 | 9.33 1.86

0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06

3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)=	69.99	33.86
over (min)	5.00	15.00
Storage Coeff. (min)=	2.53 (ii)	13.41 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.29	0.08

TOTALS

PEAK FLOW (cms)=	0.12	0.02	0.135 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	52.02	22.30	42.80
TOTAL RAINFALL (mm)=	53.02	53.02	53.02
RUNOFF COEFFICIENT =	0.98	0.42	0.81

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 79.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0026)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

----- (cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.2340 0.0090

AREA QPEAK TPEAK R.V.

(ha) (cms) (hrs) (mm)

INFLOW : ID= 2 (0210) 0.900 0.135 6.25 42.80

OUTFLOW: ID= 1 (0026) 0.900 0.116 6.25 42.79

PEAK FLOW REDUCTION [Qout/Qin](%)= 86.19

TIME SHIFT OF PEAK FLOW (min)= 0.00

MAXIMUM STORAGE USED (ha.m.)= 0.0048

| CALIB |

| STANDHYD (0203)| Area (ha)= 4.48

|ID= 1 DT= 5.0 min | Total Imp(%)= 71.00 Dir. Conn.(%)= 71.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 3.18 1.30
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 172.82 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN	
hrs	mm/hr	hrs	mm/hr	'	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86	
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86	
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86	
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86	
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86	
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86	
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86	
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86	
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86	

0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)= 69.99 22.40

over (min) 5.00 20.00

Storage Coeff. (min)= 4.09 (ii) 16.93 (ii)

Unit Hyd. Tpeak (min)= 5.00 20.00

Unit Hyd. peak (cms)= 0.24 0.06

TOTALS				
PEAK FLOW	(cms)=	0.61	0.04	0.638 (iii)
TIME TO PEAK	(hrs)=	6.25	6.42	6.25
RUNOFF VOLUME	(mm)=	52.02	15.03	41.29
TOTAL RAINFALL	(mm)=	53.02	53.02	53.02
RUNOFF COEFFICIENT	=	0.98	0.28	0.78

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 67.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0202)| Area (ha)= 0.80
|ID= 1 DT= 5.0 min | Total Imp(%)= 50.00 Dir. Conn.(%)= 50.00

IMPERVIOUS			PERVIOUS (i)	
Surface Area	(ha)=	0.40	0.40	
Dep. Storage	(mm)=	1.00	1.50	
Average Slope	(%)=	1.00	2.00	
Length	(m)=	73.03	40.00	
Mannings n	=	0.013	0.250	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr

0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06
2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06

2.917 1.59 | 6.000 25.45 | 9.083 1.86 | 12.17 1.06
3.000 1.59 | 6.083 69.99 | 9.167 1.86 | 12.25 1.06
3.083 1.59 | 6.167 69.99 | 9.250 1.86 |

Max.Eff.Inten.(mm/hr)= 69.99 25.63
over (min) 5.00 15.00
Storage Coeff. (min)= 2.44 (ii) 14.61 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.30 0.08

TOTALS

PEAK FLOW (cms)= 0.08 0.02 0.092 (iii)
TIME TO PEAK (hrs)= 6.25 6.33 6.25
RUNOFF VOLUME (mm)= 52.02 17.10 34.55
TOTAL RAINFALL (mm)= 53.02 53.02 53.02
RUNOFF COEFFICIENT = 0.98 0.32 0.65

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 71.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0045)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.

----- (ha) (cms) (hrs) (mm)

ID1= 1 (0202): 0.80 0.092 6.25 34.55
+ ID2= 2 (0203): 4.48 0.638 6.25 41.29
=====

ID = 3 (0045): 5.28 0.731 6.25 40.27

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| RESERVOIR(0027)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

----- (cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.7040 0.1100

AREA QPEAK TPEAK R.V.

(ha) (cms) (hrs) (mm)

INFLOW : ID= 2 (0045) 5.280 0.731 6.25 40.27
OUTFLOW: ID= 1 (0027) 5.280 0.370 6.33 40.26

PEAK FLOW REDUCTION [Qout/Qin](%)= 50.63
TIME SHIFT OF PEAK FLOW (min)= 5.00
MAXIMUM STORAGE USED (ha.m.)= 0.0586

| CALIB |

| STANDHYD (0241)| Area (ha)= 3.10

| ID= 1 DT= 5.0 min | Total Imp(%)= 66.00 Dir. Conn.(%)= 66.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 2.05 1.05
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 143.76 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.59	6.250	69.98	9.33	1.86
0.167	0.00	3.250	1.59	6.333	9.54	9.42	1.86
0.250	0.00	3.333	2.12	6.417	9.54	9.50	1.86
0.333	1.33	3.417	2.12	6.500	9.54	9.58	1.86
0.417	1.33	3.500	2.12	6.583	9.54	9.67	1.86
0.500	1.33	3.583	2.12	6.667	9.54	9.75	1.86
0.583	1.33	3.667	2.12	6.750	9.54	9.83	1.86
0.667	1.33	3.750	2.12	6.833	4.24	9.92	1.86
0.750	1.33	3.833	2.12	6.917	4.24	10.00	1.86
0.833	1.33	3.917	2.12	7.000	4.24	10.08	1.86
0.917	1.33	4.000	2.12	7.083	4.24	10.17	1.86
1.000	1.33	4.083	2.12	7.167	4.24	10.25	1.86
1.083	1.33	4.167	2.12	7.250	4.24	10.33	1.06
1.167	1.33	4.250	2.12	7.333	3.18	10.42	1.06
1.250	1.33	4.333	3.18	7.417	3.18	10.50	1.06
1.333	1.33	4.417	3.18	7.500	3.18	10.58	1.06
1.417	1.33	4.500	3.18	7.583	3.18	10.67	1.06
1.500	1.33	4.583	3.18	7.667	3.18	10.75	1.06
1.583	1.33	4.667	3.18	7.750	3.18	10.83	1.06
1.667	1.33	4.750	3.18	7.833	3.18	10.92	1.06
1.750	1.33	4.833	4.24	7.917	3.18	11.00	1.06
1.833	1.33	4.917	4.24	8.000	3.18	11.08	1.06
1.917	1.33	5.000	4.24	8.083	3.18	11.17	1.06
2.000	1.33	5.083	4.24	8.167	3.18	11.25	1.06
2.083	1.33	5.167	4.24	8.250	3.18	11.33	1.06
2.167	1.33	5.250	4.24	8.333	1.86	11.42	1.06
2.250	1.33	5.333	6.36	8.417	1.86	11.50	1.06
2.333	1.59	5.417	6.36	8.500	1.86	11.58	1.06
2.417	1.59	5.500	6.36	8.583	1.86	11.67	1.06
2.500	1.59	5.583	6.36	8.667	1.86	11.75	1.06

2.583	1.59	5.667	6.36	8.750	1.86	11.83	1.06
2.667	1.59	5.750	6.36	8.833	1.86	11.92	1.06
2.750	1.59	5.833	25.45	8.917	1.86	12.00	1.06
2.833	1.59	5.917	25.45	9.000	1.86	12.08	1.06
2.917	1.59	6.000	25.45	9.083	1.86	12.17	1.06
3.000	1.59	6.083	69.99	9.167	1.86	12.25	1.06
3.083	1.59	6.167	69.99	9.250	1.86		

Max.Eff.Inten.(mm/hr)= 69.99 16.61
over (min) 5.00 20.00
Storage Coeff. (min)= 3.66 (ii) 18.14 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.25 0.06

TOTALS

PEAK FLOW (cms)= 0.39 0.03 0.411 (iii)
TIME TO PEAK (hrs)= 6.25 6.42 6.25
RUNOFF VOLUME (mm)= 52.02 11.27 38.16
TOTAL RAINFALL (mm)= 53.02 53.02 53.02
RUNOFF COEFFICIENT = 0.98 0.21 0.72

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0028)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

----- (cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.1320 0.1200

AREA QPEAK TPEAK R.V.

(ha) (cms) (hrs) (mm)

INFLOW : ID= 2 (0241) 3.100 0.411 6.25 38.16

OUTFLOW: ID= 1 (0028) 3.100 0.067 6.75 38.09

PEAK FLOW REDUCTION [Qout/Qin](%)= 16.27

TIME SHIFT OF PEAK FLOW (min)= 30.00

MAXIMUM STORAGE USED (ha.m.)= 0.0608

| CALIB |

| STANDHYD (0281)| Area (ha)= 0.97

|ID= 1 DT= 5.0 min | Total Imp(%)= 66.00 Dir. Conn.(%)= 66.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.64 0.33

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.00 2.00

Length (m)= 80.42 40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN

hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr

0.083 0.00 | 3.167 1.59 | 6.250 69.98 | 9.33 1.86

0.167 0.00 | 3.250 1.59 | 6.333 9.54 | 9.42 1.86

0.250 0.00 | 3.333 2.12 | 6.417 9.54 | 9.50 1.86

0.333 1.33 | 3.417 2.12 | 6.500 9.54 | 9.58 1.86

0.417 1.33 | 3.500 2.12 | 6.583 9.54 | 9.67 1.86

0.500 1.33 | 3.583 2.12 | 6.667 9.54 | 9.75 1.86

0.583 1.33 | 3.667 2.12 | 6.750 9.54 | 9.83 1.86

0.667 1.33 | 3.750 2.12 | 6.833 4.24 | 9.92 1.86

0.750 1.33 | 3.833 2.12 | 6.917 4.24 | 10.00 1.86

0.833 1.33 | 3.917 2.12 | 7.000 4.24 | 10.08 1.86

0.917 1.33 | 4.000 2.12 | 7.083 4.24 | 10.17 1.86

1.000 1.33 | 4.083 2.12 | 7.167 4.24 | 10.25 1.86

1.083 1.33 | 4.167 2.12 | 7.250 4.24 | 10.33 1.06

1.167 1.33 | 4.250 2.12 | 7.333 3.18 | 10.42 1.06

1.250 1.33 | 4.333 3.18 | 7.417 3.18 | 10.50 1.06

1.333 1.33 | 4.417 3.18 | 7.500 3.18 | 10.58 1.06

1.417 1.33 | 4.500 3.18 | 7.583 3.18 | 10.67 1.06

1.500 1.33 | 4.583 3.18 | 7.667 3.18 | 10.75 1.06

1.583 1.33 | 4.667 3.18 | 7.750 3.18 | 10.83 1.06

1.667 1.33 | 4.750 3.18 | 7.833 3.18 | 10.92 1.06

1.750 1.33 | 4.833 4.24 | 7.917 3.18 | 11.00 1.06

1.833 1.33 | 4.917 4.24 | 8.000 3.18 | 11.08 1.06

1.917 1.33 | 5.000 4.24 | 8.083 3.18 | 11.17 1.06

2.000 1.33 | 5.083 4.24 | 8.167 3.18 | 11.25 1.06

2.083 1.33 | 5.167 4.24 | 8.250 3.18 | 11.33 1.06

2.167 1.33 | 5.250 4.24 | 8.333 1.86 | 11.42 1.06

2.250 1.33 | 5.333 6.36 | 8.417 1.86 | 11.50 1.06

2.333 1.59 | 5.417 6.36 | 8.500 1.86 | 11.58 1.06

2.417 1.59 | 5.500 6.36 | 8.583 1.86 | 11.67 1.06

2.500 1.59 | 5.583 6.36 | 8.667 1.86 | 11.75 1.06

2.583 1.59 | 5.667 6.36 | 8.750 1.86 | 11.83 1.06

2.667 1.59 | 5.750 6.36 | 8.833 1.86 | 11.92 1.06

2.750 1.59 | 5.833 25.45 | 8.917 1.86 | 12.00 1.06

2.833 1.59 | 5.917 25.45 | 9.000 1.86 | 12.08 1.06

2.917 1.59 | 6.000 25.45 | 9.083 1.86 | 12.17 1.06

3.000 1.59 | 6.083 69.99 | 9.167 1.86 | 12.25 1.06

3.083 1.59 | 6.167 69.99 | 9.250 1.86 |

Max.Eff.Inten.(mm/hr)= 69.99 16.61
over (min) 5.00 20.00
Storage Coeff. (min)= 2.59 (ii) 17.06 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.29 0.06

TOTALS
PEAK FLOW (cms)= 0.12 0.01 0.130 (iii)
TIME TO PEAK (hrs)= 6.25 6.42 6.25
RUNOFF VOLUME (mm)= 52.02 11.27 38.16
TOTAL RAINFALL (mm)= 53.02 53.02 53.02
RUNOFF COEFFICIENT = 0.98 0.21 0.72

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0030)| OVERFLOW IS OFF
| IN= 2--> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.1600 0.0130

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0281) 0.970 0.130 6.25 38.16
OUTFLOW: ID= 1 (0030) 0.970 0.088 6.25 38.14

PEAK FLOW REDUCTION [Qout/Qin](%)= 67.75

TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0078

** SIMULATION:010yr 12hr 15min SCS Type II (MTO) **

| READ STORM | Filename: C:\Users\RObeid\AppData
| | ata\Local\Temp\
| | f159238a-5f00-4f05-ac5e-db202b2121bc\72788581
| Ptotal= 63.19 mm | Comments: 010yr 12hr 15min SCS Type II (MTO)

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.00	0.00	3.25	2.53	6.50	11.37	9.75	2.21
0.25	1.58	3.50	2.53	6.75	5.06	10.00	2.21
0.50	1.58	3.75	2.53	7.00	5.06	10.25	1.26
0.75	1.58	4.00	2.53	7.25	3.79	10.50	1.26
1.00	1.58	4.25	3.79	7.50	3.79	10.75	1.26
1.25	1.58	4.50	3.79	7.75	3.79	11.00	1.26
1.50	1.58	4.75	5.06	8.00	3.79	11.25	1.26
1.75	1.58	5.00	5.06	8.25	2.21	11.50	1.26
2.00	1.58	5.25	7.58	8.50	2.21	11.75	1.26
2.25	1.90	5.50	7.58	8.75	2.21	12.00	1.26
2.50	1.90	5.75	30.33	9.00	2.21		
2.75	1.90	6.00	83.41	9.25	2.21		
3.00	1.90	6.25	11.37	9.50	2.21		

| CALIB |

| STANDHYD (0242)| Area (ha)= 0.72
|ID= 1 DT= 5.0 min | Total Imp(%)= 70.00 Dir. Conn.(%)= 70.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)= 0.50	0.22
Dep. Storage	(mm)= 1.00	1.50
Average Slope	(%)= 1.00	2.00
Length	(m)= 69.28	40.00
Mannings n	= 0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26

1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)= 83.41 22.92
over (min) 5.00 15.00
Storage Coeff. (min)= 2.20 (ii) 14.93 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.30 0.08

TOTALS

PEAK FLOW (cms)= 0.12 0.01 0.124 (iii)
TIME TO PEAK (hrs)= 6.25 6.33 6.25
RUNOFF VOLUME (mm)= 62.19 15.49 48.17
TOTAL RAINFALL (mm)= 63.19 63.19 63.19
RUNOFF COEFFICIENT = 0.98 0.25 0.76

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
- CN* = 58.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0020) OVERFLOW IS OFF					
IN= 2--> OUT= 1					
DT= 5.0 min OUTFLOW STORAGE OUTFLOW STORAGE					
----- (cms) (ha.m.) (cms) (ha.m.)					
0.0000 0.0000 0.0600 0.0240					
AREA QPEAK TPEAK R.V.					
(ha) (cms) (hrs) (mm)					
INFLOW : ID= 2 (0242) 0.720 0.124 6.25 48.17					
OUTFLOW: ID= 1 (0020) 0.720 0.035 6.33 48.04					
PEAK FLOW REDUCTION [Qout/Qin](%)= 28.62					
TIME SHIFT OF PEAK FLOW (min)= 5.00					
MAXIMUM STORAGE USED (ha.m.)= 0.0142					

CALIB					
STANDHYD (0205) Area (ha)= 0.41					
ID= 1 DT= 5.0 min Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00					

IMPERVIOUS PERVIOUS (i)					
Surface Area (ha)= 0.30 0.11					
Dep. Storage (mm)= 1.00 1.50					
Average Slope (%)= 1.00 2.00					
Length (m)= 52.28 40.00					

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----											
TIME RAIN TIME RAIN ' TIME RAIN TIME RAIN											
hrs mm/hr hrs mm/hr ' hrs mm/hr hrs mm/hr											
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21				
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21				
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21				
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21				
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21				
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21				
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21				
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21				
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21				
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21				
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21				
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21				
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26				
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26				
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26				
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26				
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26				
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26				
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26				
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26				
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26				
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26				
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26				
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26				
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26				
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26				

2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)= 83.41 22.92
over (min) 5.00 15.00
Storage Coeff. (min)= 1.86 (ii) 14.58 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.32 0.08

TOTALS
PEAK FLOW (cms)= 0.07 0.00 0.073 (iii)
TIME TO PEAK (hrs)= 6.25 6.33 6.25
RUNOFF VOLUME (mm)= 62.19 15.49 49.56
TOTAL RAINFALL (mm)= 63.19 63.19 63.19
RUNOFF COEFFICIENT = 0.98 0.25 0.78

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0021)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.0880 0.0100

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0205) 0.410 0.073 6.25 49.56
OUTFLOW: ID= 1 (0021) 0.410 0.043 6.33 49.50

PEAK FLOW REDUCTION [Qout/Qin](%)= 59.29
TIME SHIFT OF PEAK FLOW (min)= 5.00
MAXIMUM STORAGE USED (ha.m.)= 0.0053

| CALIB |
| STANDHYD (0206)| Area (ha)= 1.64
|ID= 1 DT= 5.0 min | Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 1.20 0.44
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 104.56 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr

0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26

2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)=	83.41	22.92
over (min)	5.00	20.00
Storage Coeff. (min)=	2.82 (ii)	15.54 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.28	0.07

TOTALS

PEAK FLOW (cms)=	0.28	0.02	0.287 (iii)
TIME TO PEAK (hrs)=	6.25	6.42	6.25
RUNOFF VOLUME (mm)=	62.19	15.49	49.58
TOTAL RAINFALL (mm)=	63.19	63.19	63.19
RUNOFF COEFFICIENT =	0.98	0.25	0.78

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0022)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.3030 0.0230

AREA	QPEAK	TPEAK	R.V.
(ha)	(cms)	(hrs)	(mm)

INFLOW : ID= 2 (0206) 1.640 0.287 6.25 49.58
OUTFLOW: ID= 1 (0022) 1.640 0.200 6.25 49.57

PEAK FLOW REDUCTION [Qout/Qin](%)= 69.50
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0165

| CALIB |
| STANDHYD (0271)| Area (ha)= 2.67
|ID= 1 DT= 5.0 min | Total Imp(%)= 65.00 Dir. Conn.(%)= 65.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 1.74 0.93
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 133.42 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00 3.167	1.90 6.250	83.41	9.33	2.21		
0.167	0.00 3.250	1.90 6.333	11.37	9.42	2.21		
0.250	0.00 3.333	2.53 6.417	11.37	9.50	2.21		
0.333	1.58 3.417	2.53 6.500	11.37	9.58	2.21		
0.417	1.58 3.500	2.53 6.583	11.37	9.67	2.21		
0.500	1.58 3.583	2.53 6.667	11.37	9.75	2.21		
0.583	1.58 3.667	2.53 6.750	11.37	9.83	2.21		
0.667	1.58 3.750	2.53 6.833	5.06	9.92	2.21		

0.750	1.58 3.833	2.53 6.917	5.06	10.00	2.21
0.833	1.58 3.917	2.53 7.000	5.06	10.08	2.21
0.917	1.58 4.000	2.53 7.083	5.06	10.17	2.21
1.000	1.58 4.083	2.53 7.167	5.06	10.25	2.21
1.083	1.58 4.167	2.53 7.250	5.06	10.33	1.26
1.167	1.58 4.250	2.53 7.333	3.79	10.42	1.26
1.250	1.58 4.333	3.79 7.417	3.79	10.50	1.26
1.333	1.58 4.417	3.79 7.500	3.79	10.58	1.26
1.417	1.58 4.500	3.79 7.583	3.79	10.67	1.26
1.500	1.58 4.583	3.79 7.667	3.79	10.75	1.26
1.583	1.58 4.667	3.79 7.750	3.79	10.83	1.26
1.667	1.58 4.750	3.79 7.833	3.79	10.92	1.26
1.750	1.58 4.833	5.06 7.917	3.79	11.00	1.26
1.833	1.58 4.917	5.06 8.000	3.79	11.08	1.26
1.917	1.58 5.000	5.06 8.083	3.79	11.17	1.26
2.000	1.58 5.083	5.06 8.167	3.79	11.25	1.26
2.083	1.58 5.167	5.06 8.250	3.79	11.33	1.26
2.167	1.58 5.250	5.06 8.333	2.21	11.42	1.26
2.250	1.58 5.333	7.58 8.417	2.21	11.50	1.26
2.333	1.90 5.417	7.58 8.500	2.21	11.58	1.26
2.417	1.90 5.500	7.58 8.583	2.21	11.67	1.26
2.500	1.90 5.583	7.58 8.667	2.21	11.75	1.26
2.583	1.90 5.667	7.58 8.750	2.21	11.83	1.26
2.667	1.90 5.750	7.58 8.833	2.21	11.92	1.26
2.750	1.90 5.833	30.33 8.917	2.21	12.00	1.26
2.833	1.90 5.917	30.33 9.000	2.21	12.08	1.26
2.917	1.90 6.000	30.33 9.083	2.21	12.17	1.26
3.000	1.90 6.083	83.41 9.167	2.21	12.25	1.26
3.083	1.90 6.167	83.41 9.250	2.21		

Max.Eff.Inten.(mm/hr)= 83.41 22.92
over (min) 5.00 20.00
Storage Coeff. (min)= 3.27 (ii) 15.99 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00

Unit Hyd. peak (cms)= 0.27 0.07

TOTALS

PEAK FLOW (cms)= 0.40 0.03 0.422 (iii)
TIME TO PEAK (hrs)= 6.25 6.42 6.25
RUNOFF VOLUME (mm)= 62.19 15.49 45.84
TOTAL RAINFALL (mm)= 63.19 63.19 63.19
RUNOFF COEFFICIENT = 0.98 0.25 0.73

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0023)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.4710 0.0300

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0271) 2.670 0.422 6.25 45.84
OUTFLOW: ID= 1 (0023) 2.670 0.310 6.25 45.84

PEAK FLOW REDUCTION [Qout/Qin](%)= 73.44
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0214

| CALIB |

| STANDHYD (0282)| Area (ha)= 1.33

|ID= 1 DT= 5.0 min | Total Imp(%)= 72.00 Dir. Conn.(%)= 72.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.96 0.37
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 94.16 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN	
hrs	mm/hr	hrs	mm/hr	'	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21	
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21	
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21	
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21	
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21	
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21	
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21	
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21	
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21	
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21	
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21	
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21	
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26	
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26	
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26	
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26	

1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)= 83.41 22.92

over (min) 5.00 20.00

Storage Coeff. (min)= 2.65 (ii) 15.37 (ii)

Unit Hyd. Tpeak (min)= 5.00 20.00

Unit Hyd. peak (cms)= 0.29 0.07

TOTALS

PEAK FLOW (cms)= 0.22 0.01 0.231 (iii)

TIME TO PEAK (hrs)= 6.25 6.42 6.25

RUNOFF VOLUME (mm)= 62.19 15.49 49.11

TOTAL RAINFALL (mm)= 63.19 63.19 63.19

RUNOFF COEFFICIENT = 0.98 0.25 0.78

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0024)| OVERFLOW IS OFF

| IN= 2--> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

(cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.2530 0.0200

AREA QPEAK TPEAK R.V.

(ha) (cms) (hrs) (mm)

INFLOW : ID= 2 (0282) 1.330 0.231 6.25 49.11

OUTFLOW: ID= 1 (0024) 1.330 0.158 6.25 49.10

PEAK FLOW REDUCTION [Qout/Qin](%)= 68.54

TIME SHIFT OF PEAK FLOW (min)= 0.00

MAXIMUM STORAGE USED (ha.m.)= 0.0136

| CALIB |

| STANDHYD (0209)| Area (ha)= 1.23

|ID= 1 DT= 5.0 min | Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.90 0.33

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.00 2.00
Length (m)= 90.55 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26

2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)= 83.41 22.92
over (min) 5.00 20.00
Storage Coeff. (min)= 2.59 (ii) 15.31 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.29 0.07

TOTALS

PEAK FLOW (cms)= 0.21 0.01 0.216 (iii)
TIME TO PEAK (hrs)= 6.25 6.42 6.25
RUNOFF VOLUME (mm)= 62.19 15.49 49.57
TOTAL RAINFALL (mm)= 63.19 63.19 63.19
RUNOFF COEFFICIENT = 0.98 0.25 0.78

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0025)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.2410 0.0160

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0209) 1.230 0.216 6.25 49.57
OUTFLOW: ID= 1 (0025) 1.230 0.159 6.25 49.56

PEAK FLOW REDUCTION [Qout/Qin](%)= 73.86
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0114

| CALIB |
| STANDHYD (0210)| Area (ha)= 0.90
|ID= 1 DT= 5.0 min | Total Imp(%)= 69.00 Dir. Conn.(%)= 69.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.62 0.28
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 77.46 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26

2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)=	83.41	47.61
over (min)	5.00	15.00
Storage Coeff. (min)=	2.36 (ii)	11.85 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.30	0.09

TOTALS			
PEAK FLOW (cms)=	0.14	0.02	0.164 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	62.19	29.45	52.03
TOTAL RAINFALL (mm)=	63.19	63.19	63.19
RUNOFF COEFFICIENT =	0.98	0.47	0.82

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 la = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0026)	OVERFLOW IS OFF		
IN= 2--> OUT= 1			
DT= 5.0 min	OUTFLOW	STORAGE	OUTFLOW STORAGE
-----	(cms)	(ha.m.)	(cms) (ha.m.)
	0.0000	0.0000	0.2340 0.0090

AREA	QPEAK	TPEAK	R.V.	
(ha)	(cms)	(hrs)	(mm)	
INFLOW : ID= 2 (0210)		0.900	0.164	6.25 52.03
OUTFLOW: ID= 1 (0026)		0.900	0.141	6.25 52.03
PEAK FLOW REDUCTION [Qout/Qin](%)= 86.07				
TIME SHIFT OF PEAK FLOW			(min)=	0.00
MAXIMUM STORAGE USED			(ha.m.)=	0.0058

| CALIB |

| STANDHYD (0203)| Area (ha)= 4.48

|ID= 1 DT= 5.0 min | Total Imp(%)= 71.00 Dir. Conn.(%)= 71.00

IMPERVIOUS		PERVIOUS (i)	
Surface Area (ha)=	3.18	1.30	
Dep. Storage (mm)=	1.00	1.50	
Average Slope (%)=	1.00	2.00	
Length (m)=	172.82	40.00	
Mannings n =	0.013	0.250	

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN		TIME	RAIN		TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	0.00		3.167	1.90		6.250	83.41
0.167	0.00		3.250	1.90		6.333	11.37
0.250	0.00		3.333	2.53		6.417	11.37
0.333	1.58		3.417	2.53		6.500	11.37
0.417	1.58		3.500	2.53		6.583	11.37
0.500	1.58		3.583	2.53		6.667	11.37

0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)= 83.41 30.49
over (min) 5.00 20.00

Storage Coeff. (min)= 3.81 (ii) 15.16 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.25 0.07

TOTALS

PEAK FLOW (cms)= 0.73 0.06 0.772 (iii)
TIME TO PEAK (hrs)= 6.25 6.42 6.25
RUNOFF VOLUME (mm)= 62.19 20.37 50.06
TOTAL RAINFALL (mm)= 63.19 63.19 63.19
RUNOFF COEFFICIENT = 0.98 0.32 0.79

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 67.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |

| STANDHYD (0202)| Area (ha)= 0.80

|ID= 1 DT= 5.0 min | Total Imp(%)= 50.00 Dir. Conn.(%)= 50.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.40 0.40
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 73.03 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	1.90	6.250	83.41	9.33	2.21
0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26

2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)= 83.41 34.62
over (min) 5.00 15.00

Storage Coeff. (min)= 2.27 (ii) 13.06 (ii)

Unit Hyd. Tpeak (min)= 5.00 15.00

Unit Hyd. peak (cms)= 0.30 0.08

TOTALS

PEAK FLOW (cms)= 0.09 0.02 0.114 (iii)

TIME TO PEAK (hrs)= 6.25 6.33 6.25

RUNOFF VOLUME (mm)= 62.19 23.00 42.59

TOTAL RAINFALL (mm)= 63.19 63.19 63.19

RUNOFF COEFFICIENT = 0.98 0.36 0.67

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 71.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

|ADD HYD (0045)|

| 1 + 2 = 3 | AREA QPEAK TPEAK R.V.

----- (ha) (cms) (hrs) (mm)

ID1= 1 (0202): 0.80 0.114 6.25 42.59

+ ID2= 2 (0203): 4.48 0.772 6.25 50.06

ID = 3 (0045): 5.28 0.885 6.25 48.93

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| RESERVOIR(0027)| OVERFLOW IS OFF

| IN= 2--> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

(cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.7040 0.1100

AREA QPEAK TPEAK R.V.

(ha) (cms) (hrs) (mm)

INFLOW : ID= 2 (0045) 5.280 0.885 6.25 48.93

OUTFLOW: ID= 1 (0027) 5.280 0.448 6.33 48.92

PEAK FLOW REDUCTION [Qout/Qin](%)= 50.65

TIME SHIFT OF PEAK FLOW (min)= 5.00

MAXIMUM STORAGE USED (ha.m.)= 0.0712

| CALIB |

| STANDHYD (0241)| Area (ha)= 3.10

|ID= 1 DT= 5.0 min | Total Imp(%)= 66.00 Dir. Conn.(%)= 66.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 2.05 1.05

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.00 2.00

Length (m)= 143.76 40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN

hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr

0.083 0.00 | 3.167 1.90 | 6.250 83.41 | 9.33 2.21

0.167 0.00 | 3.250 1.90 | 6.333 11.37 | 9.42 2.21

0.250 0.00 | 3.333 2.53 | 6.417 11.37 | 9.50 2.21

0.333 1.58 | 3.417 2.53 | 6.500 11.37 | 9.58 2.21

0.417 1.58 | 3.500 2.53 | 6.583 11.37 | 9.67 2.21

0.500 1.58 | 3.583 2.53 | 6.667 11.37 | 9.75 2.21

0.583 1.58 | 3.667 2.53 | 6.750 11.37 | 9.83 2.21

0.667 1.58 | 3.750 2.53 | 6.833 5.06 | 9.92 2.21

0.750 1.58 | 3.833 2.53 | 6.917 5.06 | 10.00 2.21

0.833 1.58 | 3.917 2.53 | 7.000 5.06 | 10.08 2.21

0.917 1.58 | 4.000 2.53 | 7.083 5.06 | 10.17 2.21

1.000 1.58 | 4.083 2.53 | 7.167 5.06 | 10.25 2.21

1.083 1.58 | 4.167 2.53 | 7.250 5.06 | 10.33 1.26

1.167 1.58 | 4.250 2.53 | 7.333 3.79 | 10.42 1.26

1.250 1.58 | 4.333 3.79 | 7.417 3.79 | 10.50 1.26

1.333 1.58 | 4.417 3.79 | 7.500 3.79 | 10.58 1.26

1.417 1.58 | 4.500 3.79 | 7.583 3.79 | 10.67 1.26

1.500 1.58 | 4.583 3.79 | 7.667 3.79 | 10.75 1.26

1.583 1.58 | 4.667 3.79 | 7.750 3.79 | 10.83 1.26

1.667 1.58 | 4.750 3.79 | 7.833 3.79 | 10.92 1.26

1.750 1.58 | 4.833 5.06 | 7.917 3.79 | 11.00 1.26

1.833 1.58 | 4.917 5.06 | 8.000 3.79 | 11.08 1.26

1.917 1.58 | 5.000 5.06 | 8.083 3.79 | 11.17 1.26

2.000 1.58 | 5.083 5.06 | 8.167 3.79 | 11.25 1.26

2.083 1.58 | 5.167 5.06 | 8.250 3.79 | 11.33 1.26

2.167 1.58 | 5.250 5.06 | 8.333 2.21 | 11.42 1.26

2.250 1.58 | 5.333 7.58 | 8.417 2.21 | 11.50 1.26

2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26
3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)= 83.41 22.92
over (min) 5.00 20.00
Storage Coeff. (min)= 3.42 (ii) 16.14 (ii)
Unit Hyd. Tpeak (min)= 5.00 20.00
Unit Hyd. peak (cms)= 0.26 0.06

TOTALS
PEAK FLOW (cms)= 0.47 0.04 0.496 (iii)
TIME TO PEAK (hrs)= 6.25 6.42 6.25
RUNOFF VOLUME (mm)= 62.19 15.49 46.31
TOTAL RAINFALL (mm)= 63.19 63.19 63.19
RUNOFF COEFFICIENT = 0.98 0.25 0.73

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0028)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.1320 0.1200

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0241) 3.100 0.496 6.25 46.31
OUTFLOW: ID= 1 (0028) 3.100 0.081 6.75 46.24

PEAK FLOW REDUCTION [Qout/Qin](%)= 16.33
TIME SHIFT OF PEAK FLOW (min)= 30.00
MAXIMUM STORAGE USED (ha.m.)= 0.0737

| CALIB |
| STANDHYD (0281)| Area (ha)= 0.97
|ID= 1 DT= 5.0 min | Total Imp(%)= 66.00 Dir. Conn.(%)= 66.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.64 0.33
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 80.42 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr
0.083 0.00 | 3.167 1.90 | 6.250 83.41 | 9.33 2.21

0.167	0.00	3.250	1.90	6.333	11.37	9.42	2.21
0.250	0.00	3.333	2.53	6.417	11.37	9.50	2.21
0.333	1.58	3.417	2.53	6.500	11.37	9.58	2.21
0.417	1.58	3.500	2.53	6.583	11.37	9.67	2.21
0.500	1.58	3.583	2.53	6.667	11.37	9.75	2.21
0.583	1.58	3.667	2.53	6.750	11.37	9.83	2.21
0.667	1.58	3.750	2.53	6.833	5.06	9.92	2.21
0.750	1.58	3.833	2.53	6.917	5.06	10.00	2.21
0.833	1.58	3.917	2.53	7.000	5.06	10.08	2.21
0.917	1.58	4.000	2.53	7.083	5.06	10.17	2.21
1.000	1.58	4.083	2.53	7.167	5.06	10.25	2.21
1.083	1.58	4.167	2.53	7.250	5.06	10.33	1.26
1.167	1.58	4.250	2.53	7.333	3.79	10.42	1.26
1.250	1.58	4.333	3.79	7.417	3.79	10.50	1.26
1.333	1.58	4.417	3.79	7.500	3.79	10.58	1.26
1.417	1.58	4.500	3.79	7.583	3.79	10.67	1.26
1.500	1.58	4.583	3.79	7.667	3.79	10.75	1.26
1.583	1.58	4.667	3.79	7.750	3.79	10.83	1.26
1.667	1.58	4.750	3.79	7.833	3.79	10.92	1.26
1.750	1.58	4.833	5.06	7.917	3.79	11.00	1.26
1.833	1.58	4.917	5.06	8.000	3.79	11.08	1.26
1.917	1.58	5.000	5.06	8.083	3.79	11.17	1.26
2.000	1.58	5.083	5.06	8.167	3.79	11.25	1.26
2.083	1.58	5.167	5.06	8.250	3.79	11.33	1.26
2.167	1.58	5.250	5.06	8.333	2.21	11.42	1.26
2.250	1.58	5.333	7.58	8.417	2.21	11.50	1.26
2.333	1.90	5.417	7.58	8.500	2.21	11.58	1.26
2.417	1.90	5.500	7.58	8.583	2.21	11.67	1.26
2.500	1.90	5.583	7.58	8.667	2.21	11.75	1.26
2.583	1.90	5.667	7.58	8.750	2.21	11.83	1.26
2.667	1.90	5.750	7.58	8.833	2.21	11.92	1.26
2.750	1.90	5.833	30.33	8.917	2.21	12.00	1.26
2.833	1.90	5.917	30.33	9.000	2.21	12.08	1.26
2.917	1.90	6.000	30.33	9.083	2.21	12.17	1.26

3.000	1.90	6.083	83.41	9.167	2.21	12.25	1.26
3.083	1.90	6.167	83.41	9.250	2.21		

Max.Eff.Inten.(mm/hr)=	83.41	22.92
over (min)	5.00	20.00
Storage Coeff. (min)=	2.41 (ii)	15.13 (ii)
Unit Hyd. Tpeak (min)=	5.00	20.00
Unit Hyd. peak (cms)=	0.30	0.07

TOTALS

PEAK FLOW (cms)=	0.15	0.01	0.156 (iii)
TIME TO PEAK (hrs)=	6.25	6.42	6.25
RUNOFF VOLUME (mm)=	62.19	15.49	46.30
TOTAL RAINFALL (mm)=	63.19	63.19	63.19
RUNOFF COEFFICIENT =	0.98	0.25	0.73

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0030)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

----- (cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.1600 0.0130

AREA QPEAK TPEAK R.V.

(ha) (cms) (hrs) (mm)

INFLOW : ID= 2 (0281) 0.970 0.156 6.25 46.30

OUTFLOW: ID= 1 (0030) 0.970 0.106 6.25 46.29

PEAK FLOW REDUCTION [Qout/Qin](%)= 67.84
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0094

** SIMULATION:025yr 12hr 15min SCS Type II (MTO) **

| READ STORM | Filename: C:\Users\RObeid\AppData
| | ata\Local\Temp\
| | f159238a-5f00-4f05-ac5e-db202b2121bc\011a1172
| Ptotal= 73.70 mm | Comments: 025yr 12hr 15min SCS Type II (MTO)

TIME	RAIN	TIME	RAIN	'	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	'	hrs	mm/hr	hrs	mm/hr
0.00	0.00	3.25	2.95		6.50	13.27	9.75	2.58
0.25	1.84	3.50	2.95		6.75	5.90	10.00	2.58
0.50	1.84	3.75	2.95		7.00	5.90	10.25	1.47
0.75	1.84	4.00	2.95		7.25	4.42	10.50	1.47
1.00	1.84	4.25	4.42		7.50	4.42	10.75	1.47
1.25	1.84	4.50	4.42		7.75	4.42	11.00	1.47
1.50	1.84	4.75	5.90		8.00	4.42	11.25	1.47
1.75	1.84	5.00	5.90		8.25	2.58	11.50	1.47
2.00	1.84	5.25	8.84		8.50	2.58	11.75	1.47
2.25	2.21	5.50	8.84		8.75	2.58	12.00	1.47
2.50	2.21	5.75	35.38		9.00	2.58		
2.75	2.21	6.00	97.28		9.25	2.58		
3.00	2.21	6.25	13.27		9.50	2.58		

| CALIB |
| STANDHYD (0242)| Area (ha)= 0.72
|ID= 1 DT= 5.0 min | Total Imp(%)= 70.00 Dir. Conn.(%)= 70.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)= 0.50	0.22
Dep. Storage	(mm)= 1.00	1.50
Average Slope	(%)= 1.00	2.00
Length	(m)= 69.28	40.00
Mannings n	= 0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

--- TRANSFORMED HYETOGRAPH ---								
TIME	RAIN	TIME	RAIN	'	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	'	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.21		6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21		6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95		6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95		6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95		6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95		6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95		6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95		6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95		6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95		7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95		7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95		7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95		7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95		7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42		7.417	4.42	10.50	1.47

1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)= 97.28 30.22

over (min) 5.00 15.00

Storage Coeff. (min)= 2.07 (ii) 13.46 (ii)

Unit Hyd. Tpeak (min)= 5.00 15.00

Unit Hyd. peak (cms)= 0.31 0.08

TOTALS

PEAK FLOW (cms)= 0.14 0.01 0.146 (iii)

TIME TO PEAK (hrs)= 6.25 6.33 6.25

RUNOFF VOLUME (mm)= 72.70 20.35 56.99

TOTAL RAINFALL (mm)= 73.70 73.70 73.70

RUNOFF COEFFICIENT = 0.99 0.28 0.77

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0020)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

(cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.0600 0.0240

AREA QPEAK TPEAK R.V.

(ha) (cms) (hrs) (mm)

INFLOW : ID= 2 (0242) 0.720 0.146 6.25 56.99

OUTFLOW: ID= 1 (0020) 0.720 0.042 6.33 56.86

PEAK FLOW REDUCTION [Qout/Qin](%)= 28.58

TIME SHIFT OF PEAK FLOW (min)= 5.00

MAXIMUM STORAGE USED (ha.m.)= 0.0167

| CALIB |

| STANDHYD (0205)| Area (ha)= 0.41

|ID= 1 DT= 5.0 min | Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.30 0.11

Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 52.28 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47

2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)= 97.28 32.71
over (min) 5.00 10.00
Storage Coeff. (min)= 1.75 (ii) 6.54 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.32 0.14

TOTALS
PEAK FLOW (cms)= 0.08 0.01 0.089 (iii)
TIME TO PEAK (hrs)= 6.25 6.25 6.25
RUNOFF VOLUME (mm)= 72.70 20.35 58.55
TOTAL RAINFALL (mm)= 73.70 73.70 73.70
RUNOFF COEFFICIENT = 0.99 0.28 0.79

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0021)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.0880 0.0100

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0205) 0.410 0.089 6.25 58.55
OUTFLOW: ID= 1 (0021) 0.410 0.052 6.33 58.50

PEAK FLOW REDUCTION [Qout/Qin](%)= 58.95
TIME SHIFT OF PEAK FLOW (min)= 5.00
MAXIMUM STORAGE USED (ha.m.)= 0.0064

| CALIB |
| STANDHYD (0206)| Area (ha)= 1.64
|ID= 1 DT= 5.0 min | Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 1.20 0.44
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 104.56 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47

2.667 2.21 | 5.750 8.84 | 8.833 2.58 | 11.92 1.47
2.750 2.21 | 5.833 35.38 | 8.917 2.58 | 12.00 1.47
2.833 2.21 | 5.917 35.38 | 9.000 2.58 | 12.08 1.47
2.917 2.21 | 6.000 35.38 | 9.083 2.58 | 12.17 1.47
3.000 2.21 | 6.083 97.28 | 9.167 2.58 | 12.25 1.47
3.083 2.21 | 6.167 97.28 | 9.250 2.58 |

Max.Eff.Inten.(mm/hr)= 97.28 32.71
over (min) 5.00 10.00
Storage Coeff. (min)= 2.65 (ii) 7.45 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.29 0.13

TOTALS
PEAK FLOW (cms)= 0.32 0.03 0.354 (iii)
TIME TO PEAK (hrs)= 6.25 6.25 6.25
RUNOFF VOLUME (mm)= 72.70 20.35 58.56
TOTAL RAINFALL (mm)= 73.70 73.70 73.70
RUNOFF COEFFICIENT = 0.99 0.28 0.79

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0022)| OVERFLOW IS OFF
| IN= 2--> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.3030 0.0230

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0206) 1.640 0.354 6.25 58.56
OUTFLOW: ID= 1 (0022) 1.640 0.243 6.25 58.55

PEAK FLOW REDUCTION [Qout/Qin](%)= 68.81
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0201

| CALIB |
| STANDHYD (0271)| Area (ha)= 2.67
||ID= 1 DT= 5.0 min | Total Imp(%)= 65.00 Dir. Conn.(%)= 65.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 1.74 0.93
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 133.42 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

--- TRANSFORMED HYETOGRAPH ---
TIME RAIN | TIME RAIN | TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr | hrs mm/hr | hrs mm/hr
0.083 0.00 | 3.167 2.21 | 6.250 97.28 | 9.33 2.58
0.167 0.00 | 3.250 2.21 | 6.333 13.27 | 9.42 2.58
0.250 0.00 | 3.333 2.95 | 6.417 13.27 | 9.50 2.58
0.333 1.84 | 3.417 2.95 | 6.500 13.27 | 9.58 2.58
0.417 1.84 | 3.500 2.95 | 6.583 13.27 | 9.67 2.58

0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)= 97.28 30.22

over (min)	5.00	15.00
Storage Coeff. (min)=	3.07 (ii)	14.46 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.27	0.08
TOTALS		
PEAK FLOW (cms)=	0.47	0.05 0.507 (iii)
TIME TO PEAK (hrs)=	6.25	6.33 6.25
RUNOFF VOLUME (mm)=	72.70	20.35 54.37
TOTAL RAINFALL (mm)=	73.70	73.70 73.70
RUNOFF COEFFICIENT =	0.99	0.28 0.74

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0023)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.4710 0.0300

AREA	QPEAK	TPEAK	R.V.	
(ha)	(cms)	(hrs)	(mm)	
INFLOW : ID= 2 (0271)	2.670	0.507	6.25	54.37
OUTFLOW: ID= 1 (0023)	2.670	0.371	6.25	54.37

PEAK FLOW REDUCTION [Qout/Qin](%)= 73.11

TIME SHIFT OF PEAK FLOW (min)= 0.00

MAXIMUM STORAGE USED (ha.m.)= 0.0257

| CALIB |

| STANDHYD (0282)| Area (ha)= 1.33

|ID= 1 DT= 5.0 min | Total Imp(%)= 72.00 Dir. Conn.(%)= 72.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.96 0.37

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.00 2.00

Length (m)= 94.16 40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00 3.167	2.21 6.250	97.28 9.33	2.58			
0.167	0.00 3.250	2.21 6.333	13.27 9.42	2.58			
0.250	0.00 3.333	2.95 6.417	13.27 9.50	2.58			
0.333	1.84 3.417	2.95 6.500	13.27 9.58	2.58			
0.417	1.84 3.500	2.95 6.583	13.27 9.67	2.58			
0.500	1.84 3.583	2.95 6.667	13.27 9.75	2.58			
0.583	1.84 3.667	2.95 6.750	13.27 9.83	2.58			
0.667	1.84 3.750	2.95 6.833	5.90 9.92	2.58			
0.750	1.84 3.833	2.95 6.917	5.90 10.00	2.58			
0.833	1.84 3.917	2.95 7.000	5.90 10.08	2.58			
0.917	1.84 4.000	2.95 7.083	5.90 10.17	2.58			
1.000	1.84 4.083	2.95 7.167	5.90 10.25	2.58			
1.083	1.84 4.167	2.95 7.250	5.90 10.33	1.47			

1.167	1.84 4.250	2.95 7.333	4.42 10.42	1.47
1.250	1.84 4.333	4.42 7.417	4.42 10.50	1.47
1.333	1.84 4.417	4.42 7.500	4.42 10.58	1.47
1.417	1.84 4.500	4.42 7.583	4.42 10.67	1.47
1.500	1.84 4.583	4.42 7.667	4.42 10.75	1.47
1.583	1.84 4.667	4.42 7.750	4.42 10.83	1.47
1.667	1.84 4.750	4.42 7.833	4.42 10.92	1.47
1.750	1.84 4.833	5.90 7.917	4.42 11.00	1.47
1.833	1.84 4.917	5.90 8.000	4.42 11.08	1.47
1.917	1.84 5.000	5.90 8.083	4.42 11.17	1.47
2.000	1.84 5.083	5.90 8.167	4.42 11.25	1.47
2.083	1.84 5.167	5.90 8.250	4.42 11.33	1.47
2.167	1.84 5.250	5.90 8.333	2.58 11.42	1.47
2.250	1.84 5.333	8.84 8.417	2.58 11.50	1.47
2.333	2.21 5.417	8.84 8.500	2.58 11.58	1.47
2.417	2.21 5.500	8.84 8.583	2.58 11.67	1.47
2.500	2.21 5.583	8.84 8.667	2.58 11.75	1.47
2.583	2.21 5.667	8.84 8.750	2.58 11.83	1.47
2.667	2.21 5.750	8.84 8.833	2.58 11.92	1.47
2.750	2.21 5.833	35.38 8.917	2.58 12.00	1.47
2.833	2.21 5.917	35.38 9.000	2.58 12.08	1.47
2.917	2.21 6.000	35.38 9.083	2.58 12.17	1.47
3.000	2.21 6.083	97.28 9.167	2.58 12.25	1.47
3.083	2.21 6.167	97.28 9.250	2.58	

Max.Eff.Inten.(mm/hr)= 97.28 32.71

over (min) 5.00 10.00

Storage Coeff. (min)= 2.49 (ii) 7.38 (ii)

Unit Hyd. Tpeak (min)= 5.00 10.00

Unit Hyd. peak (cms)= 0.29 0.13

TOTALS

PEAK FLOW (cms)= 0.26 0.03 0.285 (iii)

TIME TO PEAK (hrs)= 6.25 6.25 6.25

RUNOFF VOLUME (mm)= 72.70 20.35 58.04

TOTAL RAINFALL (mm)= 73.70 73.70 73.70
RUNOFF COEFFICIENT = 0.99 0.28 0.79

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0024)| OVERFLOW IS OFF
| IN= 2--> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.2530 0.0200

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0282) 1.330 0.285 6.25 58.04
OUTFLOW: ID= 1 (0024) 1.330 0.193 6.25 58.03

PEAK FLOW REDUCTION [Qout/Qin](%)= 67.78
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0166

| CALIB |
| STANDHYD (0209)| Area (ha)= 1.23
| ID= 1 DT= 5.0 min | Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.90 0.33
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 90.55 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

--- TRANSFORMED HYETOGRAPH ---							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47

1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)=	97.28	32.71
over (min)	5.00	10.00
Storage Coeff. (min)=	2.43 (ii)	7.23 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.30	0.14

TOTALS			
PEAK FLOW (cms)=	0.24	0.02	0.266 (iii)
TIME TO PEAK (hrs)=	6.25	6.25	6.25
RUNOFF VOLUME (mm)=	72.70	20.35	58.56
TOTAL RAINFALL (mm)=	73.70	73.70	73.70
RUNOFF COEFFICIENT =	0.99	0.28	0.79

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 la = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0025) OVERFLOW IS OFF			
IN= 2---> OUT= 1			
DT= 5.0 min OUTFLOW STORAGE OUTFLOW STORAGE			
-----	(cms)	(ha.m.)	(cms) (ha.m.)
	0.0000	0.0000	0.2410 0.0160

AREA	QPEAK	TPEAK	R.V.	
(ha)	(cms)	(hrs)	(mm)	
INFLOW : ID= 2 (0209)		1.230	0.266	6.25 58.56
OUTFLOW: ID= 1 (0025)		1.230	0.194	6.25 58.56

PEAK FLOW REDUCTION [Qout/Qin](%)=	73.11
TIME SHIFT OF PEAK FLOW (min)=	0.00
MAXIMUM STORAGE USED (ha.m.)=	0.0140

CALIB	
STANDHYD (0210) Area (ha)= 0.90	
ID= 1 DT= 5.0 min Total Imp(%)= 69.00 Dir. Conn.(%)= 69.00	

IMPERVIOUS	PERVIOUS (i)	
Surface Area (ha)=	0.62	0.28
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	77.46	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47

2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)= 97.28 60.09
over (min) 5.00 15.00
Storage Coeff. (min)= 2.22 (ii) 10.87 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.30 0.09

TOTALS
PEAK FLOW (cms)= 0.17 0.03 0.195 (iii)
TIME TO PEAK (hrs)= 6.25 6.33 6.25
RUNOFF VOLUME (mm)= 72.70 37.31 61.72
TOTAL RAINFALL (mm)= 73.70 73.70 73.70
RUNOFF COEFFICIENT = 0.99 0.51 0.84

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 79.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0026)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.2340 0.0090

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)

INFLOW : ID= 2 (0210) 0.900 0.195 6.25 61.72

OUTFLOW: ID= 1 (0026) 0.900 0.168 6.25 61.72

PEAK FLOW REDUCTION [Qout/Qin](%)= 85.96

TIME SHIFT OF PEAK FLOW (min)= 0.00

MAXIMUM STORAGE USED (ha.m.)= 0.0069

| CALIB |

| STANDHYD (0203)| Area (ha)= 4.48

|ID= 1 DT= 5.0 min | Total Imp(%)= 71.00 Dir. Conn.(%)= 71.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 3.18 1.30

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.00 2.00

Length (m)= 172.82 40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

--- TRANSFORMED HYETOGRAPH ---

TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN

hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr

0.083 0.00 | 3.167 2.21 | 6.250 97.28 | 9.33 2.58

0.167 0.00 | 3.250 2.21 | 6.333 13.27 | 9.42 2.58

0.250 0.00 | 3.333 2.95 | 6.417 13.27 | 9.50 2.58

0.333 1.84 | 3.417 2.95 | 6.500 13.27 | 9.58 2.58

0.417 1.84 | 3.500 2.95 | 6.583 13.27 | 9.67 2.58

0.500 1.84 | 3.583 2.95 | 6.667 13.27 | 9.75 2.58

0.583 1.84 | 3.667 2.95 | 6.750 13.27 | 9.83 2.58

0.667 1.84 | 3.750 2.95 | 6.833 5.90 | 9.92 2.58

0.750 1.84 | 3.833 2.95 | 6.917 5.90 | 10.00 2.58

0.833 1.84 | 3.917 2.95 | 7.000 5.90 | 10.08 2.58

0.917 1.84 | 4.000 2.95 | 7.083 5.90 | 10.17 2.58

1.000 1.84 | 4.083 2.95 | 7.167 5.90 | 10.25 2.58

1.083 1.84 | 4.167 2.95 | 7.250 5.90 | 10.33 1.47

1.167 1.84 | 4.250 2.95 | 7.333 4.42 | 10.42 1.47

1.250 1.84 | 4.333 4.42 | 7.417 4.42 | 10.50 1.47

1.333 1.84 | 4.417 4.42 | 7.500 4.42 | 10.58 1.47

1.417 1.84 | 4.500 4.42 | 7.583 4.42 | 10.67 1.47

1.500 1.84 | 4.583 4.42 | 7.667 4.42 | 10.75 1.47

1.583 1.84 | 4.667 4.42 | 7.750 4.42 | 10.83 1.47

1.667 1.84 | 4.750 4.42 | 7.833 4.42 | 10.92 1.47

1.750 1.84 | 4.833 5.90 | 7.917 4.42 | 11.00 1.47

1.833 1.84 | 4.917 5.90 | 8.000 4.42 | 11.08 1.47

1.917 1.84 | 5.000 5.90 | 8.083 4.42 | 11.17 1.47

2.000 1.84 | 5.083 5.90 | 8.167 4.42 | 11.25 1.47

2.083 1.84 | 5.167 5.90 | 8.250 4.42 | 11.33 1.47

2.167 1.84 | 5.250 5.90 | 8.333 2.58 | 11.42 1.47

2.250 1.84 | 5.333 8.84 | 8.417 2.58 | 11.50 1.47

2.333 2.21 | 5.417 8.84 | 8.500 2.58 | 11.58 1.47

2.417 2.21 | 5.500 8.84 | 8.583 2.58 | 11.67 1.47

2.500 2.21 | 5.583 8.84 | 8.667 2.58 | 11.75 1.47

2.583 2.21 | 5.667 8.84 | 8.750 2.58 | 11.83 1.47

2.667 2.21 | 5.750 8.84 | 8.833 2.58 | 11.92 1.47

2.750 2.21 | 5.833 35.38 | 8.917 2.58 | 12.00 1.47

2.833 2.21 | 5.917 35.38 | 9.000 2.58 | 12.08 1.47

2.917 2.21 | 6.000 35.38 | 9.083 2.58 | 12.17 1.47

3.000 2.21 | 6.083 97.28 | 9.167 2.58 | 12.25 1.47

3.083 2.21 | 6.167 97.28 | 9.250 2.58 |

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

Max.Eff.Inten.(mm/hr)= 97.28 42.62
over (min) 5.00 10.00
Storage Coeff. (min)= 3.59 (ii) 8.57 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.26 0.12

TOTALS

PEAK FLOW (cms)= 0.85 0.11 0.965 (iii)
TIME TO PEAK (hrs)= 6.25 6.25 6.25
RUNOFF VOLUME (mm)= 72.70 26.42 59.28
TOTAL RAINFALL (mm)= 73.70 73.70 73.70
RUNOFF COEFFICIENT = 0.99 0.36 0.80

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 67.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0202) | Area (ha)= 0.80
| ID= 1 DT= 5.0 min | Total Imp(%)= 50.00 Dir. Conn.(%)= 50.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.40 0.40
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 73.03 40.00
Mannings n = 0.013 0.250

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47

2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)=	97.28	47.83
over (min)	5.00	15.00
Storage Coeff. (min)=	2.14 (ii)	11.62 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.31	0.09

TOTALS			
PEAK FLOW (cms)=	0.11	0.03	0.137 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	72.70	29.63	51.15
TOTAL RAINFALL (mm)=	73.70	73.70	73.70
RUNOFF COEFFICIENT =	0.99	0.40	0.69

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 71.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0045)|

1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.
-----	(ha)	(cms)	(hrs)	(mm)

ID1= 1 (0202):	0.80	0.137	6.25	51.15
+ ID2= 2 (0203):	4.48	0.965	6.25	59.28
=====				
ID = 3 (0045):	5.28	1.103	6.25	58.05

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

RESERVOIR(0027)	OVERFLOW IS OFF			
IN= 2--> OUT= 1				
DT= 5.0 min	OUTFLOW	STORAGE	OUTFLOW	STORAGE
-----	(cms)	(ha.m.)	(cms)	(ha.m.)
	0.0000	0.0000	0.7040	0.1100

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0045)	5.280	1.103	6.25	58.05
OUTFLOW: ID= 1 (0027)	5.280	0.553	6.33	58.04

PEAK FLOW REDUCTION [Qout/Qin](%)=	50.17
TIME SHIFT OF PEAK FLOW (min)=	5.00
MAXIMUM STORAGE USED (ha.m.)=	0.0877

CALIB			
STANDHYD (0241)	Area	(ha)=	3.10
ID= 1 DT= 5.0 min	Total Imp(%)=	66.00	Dir. Conn.(%)= 66.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	2.05	1.05
Dep. Storage (mm)=	1.00	1.50

Average Slope (%)= 1.00 2.00
Length (m)= 143.76 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47

2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47
2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)= 97.28 30.22

over (min) 5.00 15.00

Storage Coeff. (min)= 3.21 (ii) 14.60 (ii)

Unit Hyd. Tpeak (min)= 5.00 15.00

Unit Hyd. peak (cms)= 0.27 0.08

TOTALS

PEAK FLOW (cms)= 0.55 0.05 0.595 (iii)

TIME TO PEAK (hrs)= 6.25 6.33 6.25

RUNOFF VOLUME (mm)= 72.70 20.35 54.90

TOTAL RAINFALL (mm)= 73.70 73.70 73.70

RUNOFF COEFFICIENT = 0.99 0.28 0.74

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0028)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.1320 0.1200

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0241) 3.100 0.595 6.25 54.90
OUTFLOW: ID= 1 (0028) 3.100 0.096 6.75 54.83

PEAK FLOW REDUCTION [Qout/Qin](%)= 16.17
TIME SHIFT OF PEAK FLOW (min)= 30.00
MAXIMUM STORAGE USED (ha.m.)= 0.0875

| CALIB |
| STANDHYD (0281)| Area (ha)= 0.97
||ID= 1 DT= 5.0 min | Total Imp(%)= 66.00 Dir. Conn.(%)= 66.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.64 0.33
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 80.42 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	'	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	'	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.21	6.250	97.28	9.33	2.58	
0.167	0.00	3.250	2.21	6.333	13.27	9.42	2.58	
0.250	0.00	3.333	2.95	6.417	13.27	9.50	2.58	
0.333	1.84	3.417	2.95	6.500	13.27	9.58	2.58	
0.417	1.84	3.500	2.95	6.583	13.27	9.67	2.58	
0.500	1.84	3.583	2.95	6.667	13.27	9.75	2.58	
0.583	1.84	3.667	2.95	6.750	13.27	9.83	2.58	
0.667	1.84	3.750	2.95	6.833	5.90	9.92	2.58	
0.750	1.84	3.833	2.95	6.917	5.90	10.00	2.58	
0.833	1.84	3.917	2.95	7.000	5.90	10.08	2.58	
0.917	1.84	4.000	2.95	7.083	5.90	10.17	2.58	
1.000	1.84	4.083	2.95	7.167	5.90	10.25	2.58	
1.083	1.84	4.167	2.95	7.250	5.90	10.33	1.47	
1.167	1.84	4.250	2.95	7.333	4.42	10.42	1.47	
1.250	1.84	4.333	4.42	7.417	4.42	10.50	1.47	
1.333	1.84	4.417	4.42	7.500	4.42	10.58	1.47	
1.417	1.84	4.500	4.42	7.583	4.42	10.67	1.47	
1.500	1.84	4.583	4.42	7.667	4.42	10.75	1.47	
1.583	1.84	4.667	4.42	7.750	4.42	10.83	1.47	
1.667	1.84	4.750	4.42	7.833	4.42	10.92	1.47	
1.750	1.84	4.833	5.90	7.917	4.42	11.00	1.47	
1.833	1.84	4.917	5.90	8.000	4.42	11.08	1.47	
1.917	1.84	5.000	5.90	8.083	4.42	11.17	1.47	
2.000	1.84	5.083	5.90	8.167	4.42	11.25	1.47	
2.083	1.84	5.167	5.90	8.250	4.42	11.33	1.47	
2.167	1.84	5.250	5.90	8.333	2.58	11.42	1.47	
2.250	1.84	5.333	8.84	8.417	2.58	11.50	1.47	
2.333	2.21	5.417	8.84	8.500	2.58	11.58	1.47	
2.417	2.21	5.500	8.84	8.583	2.58	11.67	1.47	
2.500	2.21	5.583	8.84	8.667	2.58	11.75	1.47	
2.583	2.21	5.667	8.84	8.750	2.58	11.83	1.47	
2.667	2.21	5.750	8.84	8.833	2.58	11.92	1.47	

2.750	2.21	5.833	35.38	8.917	2.58	12.00	1.47
2.833	2.21	5.917	35.38	9.000	2.58	12.08	1.47
2.917	2.21	6.000	35.38	9.083	2.58	12.17	1.47
3.000	2.21	6.083	97.28	9.167	2.58	12.25	1.47
3.083	2.21	6.167	97.28	9.250	2.58		

Max.Eff.Inten.(mm/hr)=	97.28	30.22
over (min)	5.00	15.00
Storage Coeff. (min)=	2.27 (ii)	13.66 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.30	0.08

TOTALS

PEAK FLOW (cms)=	0.17	0.02	0.188 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	72.70	20.35	54.89
TOTAL RAINFALL (mm)=	73.70	73.70	73.70
RUNOFF COEFFICIENT =	0.99	0.28	0.74

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0030)| OVERFLOW IS OFF

| IN= 2--> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

(cms)	(ha.m.)	(cms)	(ha.m.)
0.0000	0.0000	0.1600	0.0130

AREA	QPEAK	TPEAK	R.V.
(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0281)	0.970	0.188	6.25 54.89
OUTFLOW: ID= 1 (0030)	0.970	0.126	6.25 54.88
PEAK FLOW REDUCTION [Qout/Qin](%)=	67.39		
TIME SHIFT OF PEAK FLOW	(min)=	0.00	
MAXIMUM STORAGE USED	(ha.m.)=	0.0112	

** SIMULATION:050yr 12hr 15min SCS Type II (MTO) **

| READ STORM | Filename: C:\Users\RObeid\AppData
| | ata\Local\Temp\
| | f159238a-5f00-4f05-ac5e-db202b2121bc\16787c54
| Ptotal= 81.65 mm | Comments: 050yr 12hr 15min SCS Type II (MTO)

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.00	0.00	3.25	3.27	6.50	14.70	9.75	2.86
0.25	2.04	3.50	3.27	6.75	6.53	10.00	2.86
0.50	2.04	3.75	3.27	7.00	6.53	10.25	1.63
0.75	2.04	4.00	3.27	7.25	4.90	10.50	1.63
1.00	2.04	4.25	4.90	7.50	4.90	10.75	1.63
1.25	2.04	4.50	4.90	7.75	4.90	11.00	1.63
1.50	2.04	4.75	6.53	8.00	4.90	11.25	1.63
1.75	2.04	5.00	6.53	8.25	2.86	11.50	1.63
2.00	2.04	5.25	9.80	8.50	2.86	11.75	1.63
2.25	2.45	5.50	9.80	8.75	2.86	12.00	1.63
2.50	2.45	5.75	39.19	9.00	2.86		
2.75	2.45	6.00	107.78	9.25	2.86		

3.00 2.45 | 6.25 14.70 | 9.50 2.86 |

| CALIB |

| STANDHYD (0242)| Area (ha)= 0.72

|ID= 1 DT= 5.0 min | Total Imp(%)= 70.00 Dir. Conn.(%)= 70.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.50 0.22

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.00 2.00

Length (m)= 69.28 40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	'	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	'	hrs	mm/hr	hrs	mm/hr
0.083	0.00 3.167	2.45 6.250	107.78 9.33				2.86	
0.167	0.00 3.250	2.45 6.333	14.70 9.42				2.86	
0.250	0.00 3.333	3.27 6.417	14.70 9.50				2.86	
0.333	2.04 3.417	3.27 6.500	14.70 9.58				2.86	
0.417	2.04 3.500	3.27 6.583	14.70 9.67				2.86	
0.500	2.04 3.583	3.27 6.667	14.70 9.75				2.86	
0.583	2.04 3.667	3.27 6.750	14.70 9.83				2.86	
0.667	2.04 3.750	3.27 6.833	6.53 9.92				2.86	
0.750	2.04 3.833	3.27 6.917	6.53 10.00				2.86	
0.833	2.04 3.917	3.27 7.000	6.53 10.08				2.86	
0.917	2.04 4.000	3.27 7.083	6.53 10.17				2.86	
1.000	2.04 4.083	3.27 7.167	6.53 10.25				2.86	

1.083	2.04 4.167	3.27 7.250	6.53 10.33	1.63
1.167	2.04 4.250	3.27 7.333	4.90 10.42	1.63
1.250	2.04 4.333	4.90 7.417	4.90 10.50	1.63
1.333	2.04 4.417	4.90 7.500	4.90 10.58	1.63
1.417	2.04 4.500	4.90 7.583	4.90 10.67	1.63
1.500	2.04 4.583	4.90 7.667	4.90 10.75	1.63
1.583	2.04 4.667	4.90 7.750	4.90 10.83	1.63
1.667	2.04 4.750	4.90 7.833	4.90 10.92	1.63
1.750	2.04 4.833	6.53 7.917	4.90 11.00	1.63
1.833	2.04 4.917	6.53 8.000	4.90 11.08	1.63
1.917	2.04 5.000	6.53 8.083	4.90 11.17	1.63
2.000	2.04 5.083	6.53 8.167	4.90 11.25	1.63
2.083	2.04 5.167	6.53 8.250	4.90 11.33	1.63
2.167	2.04 5.250	6.53 8.333	2.86 11.42	1.63
2.250	2.04 5.333	9.80 8.417	2.86 11.50	1.63
2.333	2.45 5.417	9.80 8.500	2.86 11.58	1.63
2.417	2.45 5.500	9.80 8.583	2.86 11.67	1.63
2.500	2.45 5.583	9.80 8.667	2.86 11.75	1.63
2.583	2.45 5.667	9.80 8.750	2.86 11.83	1.63
2.667	2.45 5.750	9.80 8.833	2.86 11.92	1.63
2.750	2.45 5.833	39.19 8.917	2.86 12.00	1.63
2.833	2.45 5.917	39.19 9.000	2.86 12.08	1.63
2.917	2.45 6.000	39.19 9.083	2.86 12.17	1.63
3.000	2.45 6.083	107.78 9.167	2.86 12.25	1.63
3.083	2.45 6.167	107.78 9.250	2.86	

Max.Eff.Inten.(mm/hr)= 107.78 39.11

over (min) 5.00 10.00

Storage Coeff. (min)= 1.99 (ii) 6.87 (ii)

Unit Hyd. Tpeak (min)= 5.00 10.00

Unit Hyd. peak (cms)= 0.31 0.14

TOTALS

PEAK FLOW (cms)= 0.15 0.02 0.169 (iii)

TIME TO PEAK (hrs)= 6.25 6.25 6.25

RUNOFF VOLUME (mm)= 80.65 24.33 63.75
TOTAL RAINFALL (mm)= 81.65 81.65 81.65
RUNOFF COEFFICIENT = 0.99 0.30 0.78

- ***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!
- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0020)| OVERFLOW IS OFF
| IN= 2--> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.0600 0.0240

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0242) 0.720 0.169 6.25 63.75
OUTFLOW: ID= 1 (0020) 0.720 0.048 6.33 63.61

PEAK FLOW REDUCTION [Qout/Qin](%)= 28.26
TIME SHIFT OF PEAK FLOW (min)= 5.00
MAXIMUM STORAGE USED (ha.m.)= 0.0192

| CALIB |
| STANDHYD (0205)| Area (ha)= 0.41
|ID= 1 DT= 5.0 min | Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.30 0.11
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 52.28 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

--- TRANSFORMED HYETOGRAPH ---

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63

1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)=	107.78	39.11
over (min)	5.00	10.00
Storage Coeff. (min)=	1.68 (ii)	6.28 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.32	0.15

TOTALS			
PEAK FLOW (cms)=	0.09	0.01	0.099 (iii)
TIME TO PEAK (hrs)=	6.25	6.25	6.25
RUNOFF VOLUME (mm)=	80.65	24.33	65.43
TOTAL RAINFALL (mm)=	81.65	81.65	81.65
RUNOFF COEFFICIENT =	0.99	0.30	0.80

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 la = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0021) OVERFLOW IS OFF			
IN= 2--> OUT= 1			
DT= 5.0 min OUTFLOW STORAGE OUTFLOW STORAGE			
----- (cms) (ha.m.) (cms) (ha.m.)			
0.0000 0.0000 0.0880 0.0100			

AREA QPEAK TPEAK R.V.				
(ha) (cms) (hrs) (mm)				
INFLOW : ID= 2 (0205) 0.410 0.099 6.25 65.43				
OUTFLOW: ID= 1 (0021) 0.410 0.059 6.33 65.37				

PEAK FLOW REDUCTION [Qout/Qin](%)= 58.91

TIME SHIFT OF PEAK FLOW (min)= 5.00

MAXIMUM STORAGE USED (ha.m.)= 0.0072

CALIB	
STANDHYD (0206) Area (ha)= 1.64	
ID= 1 DT= 5.0 min Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00	

IMPERVIOUS PERVIOUS (i)		
Surface Area (ha)=	1.20	0.44
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	104.56	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63

2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)=	107.78	39.11
over (min)	5.00	10.00
Storage Coeff. (min)=	2.55 (ii)	7.15 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.29	0.14

TOTALS

PEAK FLOW (cms)=	0.36	0.04	0.396 (iii)
TIME TO PEAK (hrs)=	6.25	6.25	6.25
RUNOFF VOLUME (mm)=	80.65	24.33	65.44
TOTAL RAINFALL (mm)=	81.65	81.65	81.65
RUNOFF COEFFICIENT =	0.99	0.30	0.80

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0022)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.3030 0.0230

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0206) 1.640 0.396 6.25 65.44
OUTFLOW: ID= 1 (0022) 1.640 0.272 6.25 65.43

PEAK FLOW REDUCTION [Qout/Qin](%)= 68.85
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0225

| CALIB |
| STANDHYD (0271)| Area (ha)= 2.67
|ID= 1 DT= 5.0 min | Total Imp(%)= 65.00 Dir. Conn.(%)= 65.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 1.74 0.93
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 133.42 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----
TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN
hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr
0.083 0.00 | 3.167 2.45 | 6.250 107.78 | 9.33 2.86
0.167 0.00 | 3.250 2.45 | 6.333 14.70 | 9.42 2.86

0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63

3.083 2.45 | 6.167 107.78 | 9.250 2.86 |

Max.Eff.Inten.(mm/hr)= 107.78 36.21

over (min) 5.00 15.00

Storage Coeff. (min)= 2.95 (ii) 13.54 (ii)

Unit Hyd. Tpeak (min)= 5.00 15.00

Unit Hyd. peak (cms)= 0.28 0.08

TOTALS

PEAK FLOW (cms)= 0.52 0.06 0.568 (iii)

TIME TO PEAK (hrs)= 6.25 6.33 6.25

RUNOFF VOLUME (mm)= 80.65 24.33 60.93

TOTAL RAINFALL (mm)= 81.65 81.65 81.65

RUNOFF COEFFICIENT = 0.99 0.30 0.75

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0023)| OVERFLOW IS OFF

| IN= 2--> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

----- (cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.4710 0.0300

AREA QPEAK TPEAK R.V.

(ha) (cms) (hrs) (mm)

INFLOW : ID= 2 (0271) 2.670 0.568 6.25 60.93

OUTFLOW: ID= 1 (0023) 2.670 0.415 6.25 60.93

PEAK FLOW REDUCTION [Qout/Qin](%)= 73.12

TIME SHIFT OF PEAK FLOW (min)= 0.00

MAXIMUM STORAGE USED (ha.m.)= 0.0288

| CALIB |

| STANDHYD (0282)| Area (ha)= 1.33

|ID= 1 DT= 5.0 min | Total Imp(%)= 72.00 Dir. Conn.(%)= 72.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.96 0.37

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.00 2.00

Length (m)= 94.16 40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN

hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr

0.083 0.00 | 3.167 2.45 | 6.250 107.78 | 9.33 2.86

0.167 0.00 | 3.250 2.45 | 6.333 14.70 | 9.42 2.86

0.250 0.00 | 3.333 3.27 | 6.417 14.70 | 9.50 2.86

0.333 2.04 | 3.417 3.27 | 6.500 14.70 | 9.58 2.86

0.417 2.04 | 3.500 3.27 | 6.583 14.70 | 9.67 2.86

0.500 2.04 | 3.583 3.27 | 6.667 14.70 | 9.75 2.86

0.583 2.04 | 3.667 3.27 | 6.750 14.70 | 9.83 2.86

0.667 2.04 | 3.750 3.27 | 6.833 6.53 | 9.92 2.86

0.750 2.04 | 3.833 3.27 | 6.917 6.53 | 10.00 2.86

0.833 2.04 | 3.917 3.27 | 7.000 6.53 | 10.08 2.86

0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)= 107.78 39.11
over (min) 5.00 10.00
Storage Coeff. (min)= 2.39 (ii) 7.09 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.30 0.14
TOTALS

PEAK FLOW (cms)= 0.29 0.03 0.318 (iii)
TIME TO PEAK (hrs)= 6.25 6.25 6.25
RUNOFF VOLUME (mm)= 80.65 24.33 64.88
TOTAL RAINFALL (mm)= 81.65 81.65 81.65
RUNOFF COEFFICIENT = 0.99 0.30 0.79

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0024)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.2530 0.0200

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0282) 1.330 0.318 6.25 64.88
OUTFLOW: ID= 1 (0024) 1.330 0.216 6.25 64.86

PEAK FLOW REDUCTION [Qout/Qin](%)= 67.80
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0186

| CALIB |

| STANDHYD (0209)| Area (ha)= 1.23
|ID= 1 DT= 5.0 min | Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.90	0.33
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	90.55	40.00
Mannings n	= 0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00 3.167	2.45 6.250	107.78 9.33	2.86			
0.167	0.00 3.250	2.45 6.333	14.70 9.42	2.86			
0.250	0.00 3.333	3.27 6.417	14.70 9.50	2.86			
0.333	2.04 3.417	3.27 6.500	14.70 9.58	2.86			
0.417	2.04 3.500	3.27 6.583	14.70 9.67	2.86			
0.500	2.04 3.583	3.27 6.667	14.70 9.75	2.86			
0.583	2.04 3.667	3.27 6.750	14.70 9.83	2.86			
0.667	2.04 3.750	3.27 6.833	6.53 9.92	2.86			
0.750	2.04 3.833	3.27 6.917	6.53 10.00	2.86			
0.833	2.04 3.917	3.27 7.000	6.53 10.08	2.86			
0.917	2.04 4.000	3.27 7.083	6.53 10.17	2.86			
1.000	2.04 4.083	3.27 7.167	6.53 10.25	2.86			
1.083	2.04 4.167	3.27 7.250	6.53 10.33	1.63			
1.167	2.04 4.250	3.27 7.333	4.90 10.42	1.63			
1.250	2.04 4.333	4.90 7.417	4.90 10.50	1.63			
1.333	2.04 4.417	4.90 7.500	4.90 10.58	1.63			
1.417	2.04 4.500	4.90 7.583	4.90 10.67	1.63			
1.500	2.04 4.583	4.90 7.667	4.90 10.75	1.63			

1.583	2.04 4.667	4.90 7.750	4.90 10.83	1.63
1.667	2.04 4.750	4.90 7.833	4.90 10.92	1.63
1.750	2.04 4.833	6.53 7.917	4.90 11.00	1.63
1.833	2.04 4.917	6.53 8.000	4.90 11.08	1.63
1.917	2.04 5.000	6.53 8.083	4.90 11.17	1.63
2.000	2.04 5.083	6.53 8.167	4.90 11.25	1.63
2.083	2.04 5.167	6.53 8.250	4.90 11.33	1.63
2.167	2.04 5.250	6.53 8.333	2.86 11.42	1.63
2.250	2.04 5.333	9.80 8.417	2.86 11.50	1.63
2.333	2.45 5.417	9.80 8.500	2.86 11.58	1.63
2.417	2.45 5.500	9.80 8.583	2.86 11.67	1.63
2.500	2.45 5.583	9.80 8.667	2.86 11.75	1.63
2.583	2.45 5.667	9.80 8.750	2.86 11.83	1.63
2.667	2.45 5.750	9.80 8.833	2.86 11.92	1.63
2.750	2.45 5.833	39.19 8.917	2.86 12.00	1.63
2.833	2.45 5.917	39.19 9.000	2.86 12.08	1.63
2.917	2.45 6.000	39.19 9.083	2.86 12.17	1.63
3.000	2.45 6.083	107.78 9.167	2.86 12.25	1.63
3.083	2.45 6.167	107.78 9.250	2.86	

Max.Eff.Inten.(mm/hr)= 107.78 39.11
over (min) 5.00 10.00
Storage Coeff. (min)= 2.34 (ii) 6.94 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.30 0.14

TOTALS
PEAK FLOW (cms)= 0.27 0.03 0.297 (iii)
TIME TO PEAK (hrs)= 6.25 6.25 6.25
RUNOFF VOLUME (mm)= 80.65 24.33 65.44
TOTAL RAINFALL (mm)= 81.65 81.65 81.65
RUNOFF COEFFICIENT = 0.99 0.30 0.80

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
- CN* = 58.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0025) OVERFLOW IS OFF				
IN= 2--> OUT= 1				
DT= 5.0 min OUTFLOW STORAGE OUTFLOW STORAGE				
----- (cms) (ha.m.) (cms) (ha.m.)				
0.0000 0.0000 0.2410 0.0160				
AREA QPEAK TPEAK R.V.				
(ha) (cms) (hrs) (mm)				
INFLOW : ID= 2 (0209) 1.230 0.297 6.25 65.44				
OUTFLOW: ID= 1 (0025) 1.230 0.217 6.25 65.43				
PEAK FLOW REDUCTION [Qout/Qin](%)= 73.14				
TIME SHIFT OF PEAK FLOW (min)= 0.00				
MAXIMUM STORAGE USED (ha.m.)= 0.0156				

| CALIB |

| STANDHYD (0210)| Area (ha)= 0.90

|ID= 1 DT= 5.0 min | Total Imp(%)= 69.00 Dir. Conn.(%)= 69.00

IMPERVIOUS PERVIOUS (i)			
Surface Area	(ha)=	0.62	0.28
Dep. Storage	(mm)=	1.00	1.50
Average Slope	(%)=	1.00	2.00
Length	(m)=	77.46	40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN		TIME	RAIN		TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	0.00		3.167	2.45		6.250	107.78
0.167	0.00		3.250	2.45		6.333	14.70
0.250	0.00		3.333	3.27		6.417	14.70
0.333	2.04		3.417	3.27		6.500	14.70
0.417	2.04		3.500	3.27		6.583	14.70
0.500	2.04		3.583	3.27		6.667	14.70
0.583	2.04		3.667	3.27		6.750	14.70
0.667	2.04		3.750	3.27		6.833	6.53
0.750	2.04		3.833	3.27		6.917	6.53
0.833	2.04		3.917	3.27		7.000	6.53
0.917	2.04		4.000	3.27		7.083	6.53
1.000	2.04		4.083	3.27		7.167	6.53
1.083	2.04		4.167	3.27		7.250	6.53
1.167	2.04		4.250	3.27		7.333	4.90
1.250	2.04		4.333	4.90		7.417	4.90
1.333	2.04		4.417	4.90		7.500	4.90
1.417	2.04		4.500	4.90		7.583	4.90
1.500	2.04		4.583	4.90		7.667	4.90
1.583	2.04		4.667	4.90		7.750	4.90
1.667	2.04		4.750	4.90		7.833	4.90
1.750	2.04		4.833	6.53		7.917	4.90
1.833	2.04		4.917	6.53		8.000	4.90
1.917	2.04		5.000	6.53		8.083	4.90
2.000	2.04		5.083	6.53		8.167	4.90
2.083	2.04		5.167	6.53		8.250	4.90
2.167	2.04		5.250	6.53		8.333	2.86

2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)= 107.78 69.86

over (min) 5.00 10.00

Storage Coeff. (min)= 2.13 (ii) 7.10 (ii)

Unit Hyd. Tpeak (min)= 5.00 10.00

Unit Hyd. peak (cms)= 0.31 0.14

TOTALS

PEAK FLOW (cms)= 0.19 0.04 0.230 (iii)

TIME TO PEAK (hrs)= 6.25 6.25 6.25

RUNOFF VOLUME (mm)= 80.65 43.50 69.13

TOTAL RAINFALL (mm)= 81.65 81.65 81.65

RUNOFF COEFFICIENT = 0.99 0.53 0.85

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
- CN* = 79.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0026)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

----- (cms) (ha.m.) | (cms) (ha.m.)

0.0000 0.0000 | 0.2340 0.0090

AREA QPEAK TPEAK R.V.

(ha) (cms) (hrs) (mm)

INFLOW : ID= 2 (0210) 0.900 0.230 6.25 69.13

OUTFLOW: ID= 1 (0026) 0.900 0.197 6.25 69.12

PEAK FLOW REDUCTION [Qout/Qin](%)= 85.83

TIME SHIFT OF PEAK FLOW (min)= 0.00

MAXIMUM STORAGE USED (ha.m.)= 0.0081

| CALIB |

| STANDHYD (0203)| Area (ha)= 4.48

|ID= 1 DT= 5.0 min | Total Imp(%)= 71.00 Dir. Conn.(%)= 71.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 3.18 1.30

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.00 2.00

Length (m)= 172.82 40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME RAIN | TIME RAIN |' TIME RAIN | TIME RAIN

hrs mm/hr | hrs mm/hr |' hrs mm/hr | hrs mm/hr

0.083 0.00 | 3.167 2.45 | 6.250 107.78 | 9.33 2.86
0.167 0.00 | 3.250 2.45 | 6.333 14.70 | 9.42 2.86
0.250 0.00 | 3.333 3.27 | 6.417 14.70 | 9.50 2.86
0.333 2.04 | 3.417 3.27 | 6.500 14.70 | 9.58 2.86
0.417 2.04 | 3.500 3.27 | 6.583 14.70 | 9.67 2.86
0.500 2.04 | 3.583 3.27 | 6.667 14.70 | 9.75 2.86
0.583 2.04 | 3.667 3.27 | 6.750 14.70 | 9.83 2.86
0.667 2.04 | 3.750 3.27 | 6.833 6.53 | 9.92 2.86
0.750 2.04 | 3.833 3.27 | 6.917 6.53 | 10.00 2.86
0.833 2.04 | 3.917 3.27 | 7.000 6.53 | 10.08 2.86
0.917 2.04 | 4.000 3.27 | 7.083 6.53 | 10.17 2.86
1.000 2.04 | 4.083 3.27 | 7.167 6.53 | 10.25 2.86
1.083 2.04 | 4.167 3.27 | 7.250 6.53 | 10.33 1.63
1.167 2.04 | 4.250 3.27 | 7.333 4.90 | 10.42 1.63
1.250 2.04 | 4.333 4.90 | 7.417 4.90 | 10.50 1.63
1.333 2.04 | 4.417 4.90 | 7.500 4.90 | 10.58 1.63
1.417 2.04 | 4.500 4.90 | 7.583 4.90 | 10.67 1.63
1.500 2.04 | 4.583 4.90 | 7.667 4.90 | 10.75 1.63
1.583 2.04 | 4.667 4.90 | 7.750 4.90 | 10.83 1.63
1.667 2.04 | 4.750 4.90 | 7.833 4.90 | 10.92 1.63
1.750 2.04 | 4.833 6.53 | 7.917 4.90 | 11.00 1.63
1.833 2.04 | 4.917 6.53 | 8.000 4.90 | 11.08 1.63
1.917 2.04 | 5.000 6.53 | 8.083 4.90 | 11.17 1.63
2.000 2.04 | 5.083 6.53 | 8.167 4.90 | 11.25 1.63
2.083 2.04 | 5.167 6.53 | 8.250 4.90 | 11.33 1.63
2.167 2.04 | 5.250 6.53 | 8.333 2.86 | 11.42 1.63
2.250 2.04 | 5.333 9.80 | 8.417 2.86 | 11.50 1.63
2.333 2.45 | 5.417 9.80 | 8.500 2.86 | 11.58 1.63
2.417 2.45 | 5.500 9.80 | 8.583 2.86 | 11.67 1.63
2.500 2.45 | 5.583 9.80 | 8.667 2.86 | 11.75 1.63
2.583 2.45 | 5.667 9.80 | 8.750 2.86 | 11.83 1.63
2.667 2.45 | 5.750 9.80 | 8.833 2.86 | 11.92 1.63
2.750 2.45 | 5.833 39.19 | 8.917 2.86 | 12.00 1.63
2.833 2.45 | 5.917 39.19 | 9.000 2.86 | 12.08 1.63

2.917 2.45 | 6.000 39.19 | 9.083 2.86 | 12.17 1.63
3.000 2.45 | 6.083 107.78 | 9.167 2.86 | 12.25 1.63
3.083 2.45 | 6.167 107.78 | 9.250 2.86 |

Max.Eff.Inten.(mm/hr)= 107.78 50.45
over (min) 5.00 10.00
Storage Coeff. (min)= 3.44 (ii) 8.23 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.26 0.13

TOTALS

PEAK FLOW (cms)= 0.94 0.14 1.082 (iii)
TIME TO PEAK (hrs)= 6.25 6.25 6.25
RUNOFF VOLUME (mm)= 80.65 31.30 66.34
TOTAL RAINFALL (mm)= 81.65 81.65 81.65
RUNOFF COEFFICIENT = 0.99 0.38 0.81

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 67.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| CALIB |
| STANDHYD (0202)| Area (ha)= 0.80
|ID= 1 DT= 5.0 min | Total Imp(%)= 50.00 Dir. Conn.(%)= 50.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.40 0.40
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00

Length (m)= 73.03 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63

2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)= 107.78 56.32

over (min) 5.00 15.00

Storage Coeff. (min)= 2.05 (ii) 10.93 (ii)

Unit Hyd. Tpeak (min)= 5.00 15.00

Unit Hyd. peak (cms)= 0.31 0.09

TOTALS

PEAK FLOW (cms)= 0.12 0.04 0.155 (iii)

TIME TO PEAK (hrs)= 6.25 6.33 6.25

RUNOFF VOLUME (mm)= 80.65 34.93 57.78

TOTAL RAINFALL (mm)= 81.65 81.65 81.65

RUNOFF COEFFICIENT = 0.99 0.43 0.71

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 71.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0045)|
| 1+ 2= 3 | AREA QPEAK TPEAK R.V.
----- (ha) (cms) (hrs) (mm)
ID1= 1 (0202): 0.80 0.155 6.25 57.78
+ ID2= 2 (0203): 4.48 1.082 6.25 66.34
=====

ID = 3 (0045): 5.28 1.238 6.25 65.04

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| RESERVOIR(0027)| OVERFLOW IS OFF
| IN= 2--> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.7040 0.1100

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0045) 5.280 1.238 6.25 65.04
OUTFLOW: ID= 1 (0027) 5.280 0.621 6.33 65.03

PEAK FLOW REDUCTION [Qout/Qin](%)= 50.15
TIME SHIFT OF PEAK FLOW (min)= 5.00
MAXIMUM STORAGE USED (ha.m.)= 0.0985

| CALIB |
| STANDHYD (0241)| Area (ha)= 3.10
| ID= 1 DT= 5.0 min | Total Imp(%)= 66.00 Dir. Conn.(%)= 66.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	2.05	1.05
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	143.76	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

--- TRANSFORMED HYETOGRAPH ---

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63

1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63
2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)= 107.78 36.21
over (min) 5.00 15.00

Storage Coeff. (min)= 3.08 (ii) 13.68 (ii)

Unit Hyd. Tpeak (min)= 5.00 15.00

Unit Hyd. peak (cms)= 0.27 0.08

TOTALS

PEAK FLOW (cms)= 0.61 0.07 0.666 (iii)

TIME TO PEAK (hrs)= 6.25 6.33 6.25

RUNOFF VOLUME (mm)= 80.65 24.33 61.50

TOTAL RAINFALL (mm)= 81.65 81.65 81.65

RUNOFF COEFFICIENT = 0.99 0.30 0.75

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 la = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0028)| OVERFLOW IS OFF

| IN= 2--> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.1320 0.1200

AREA	QPEAK	TPEAK	R.V.	
(ha)	(cms)	(hrs)	(mm)	
INFLOW : ID= 2 (0241)	3.100	0.666	6.25	61.50
OUTFLOW: ID= 1 (0028)	3.100	0.108	6.75	61.42

PEAK FLOW REDUCTION [Qout/Qin](%)= 16.17

TIME SHIFT OF PEAK FLOW (min)= 30.00

MAXIMUM STORAGE USED (ha.m.)= 0.0981

| CALIB |

| STANDHYD (0281)| Area (ha)= 0.97

|ID= 1 DT= 5.0 min | Total Imp(%)= 66.00 Dir. Conn.(%)= 66.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.64	0.33
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	80.42	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.45	6.250	107.78	9.33	2.86
0.167	0.00	3.250	2.45	6.333	14.70	9.42	2.86
0.250	0.00	3.333	3.27	6.417	14.70	9.50	2.86
0.333	2.04	3.417	3.27	6.500	14.70	9.58	2.86
0.417	2.04	3.500	3.27	6.583	14.70	9.67	2.86
0.500	2.04	3.583	3.27	6.667	14.70	9.75	2.86
0.583	2.04	3.667	3.27	6.750	14.70	9.83	2.86
0.667	2.04	3.750	3.27	6.833	6.53	9.92	2.86
0.750	2.04	3.833	3.27	6.917	6.53	10.00	2.86
0.833	2.04	3.917	3.27	7.000	6.53	10.08	2.86
0.917	2.04	4.000	3.27	7.083	6.53	10.17	2.86
1.000	2.04	4.083	3.27	7.167	6.53	10.25	2.86
1.083	2.04	4.167	3.27	7.250	6.53	10.33	1.63
1.167	2.04	4.250	3.27	7.333	4.90	10.42	1.63
1.250	2.04	4.333	4.90	7.417	4.90	10.50	1.63
1.333	2.04	4.417	4.90	7.500	4.90	10.58	1.63
1.417	2.04	4.500	4.90	7.583	4.90	10.67	1.63
1.500	2.04	4.583	4.90	7.667	4.90	10.75	1.63
1.583	2.04	4.667	4.90	7.750	4.90	10.83	1.63
1.667	2.04	4.750	4.90	7.833	4.90	10.92	1.63
1.750	2.04	4.833	6.53	7.917	4.90	11.00	1.63
1.833	2.04	4.917	6.53	8.000	4.90	11.08	1.63
1.917	2.04	5.000	6.53	8.083	4.90	11.17	1.63
2.000	2.04	5.083	6.53	8.167	4.90	11.25	1.63
2.083	2.04	5.167	6.53	8.250	4.90	11.33	1.63
2.167	2.04	5.250	6.53	8.333	2.86	11.42	1.63
2.250	2.04	5.333	9.80	8.417	2.86	11.50	1.63
2.333	2.45	5.417	9.80	8.500	2.86	11.58	1.63
2.417	2.45	5.500	9.80	8.583	2.86	11.67	1.63

2.500	2.45	5.583	9.80	8.667	2.86	11.75	1.63
2.583	2.45	5.667	9.80	8.750	2.86	11.83	1.63
2.667	2.45	5.750	9.80	8.833	2.86	11.92	1.63
2.750	2.45	5.833	39.19	8.917	2.86	12.00	1.63
2.833	2.45	5.917	39.19	9.000	2.86	12.08	1.63
2.917	2.45	6.000	39.19	9.083	2.86	12.17	1.63
3.000	2.45	6.083	107.78	9.167	2.86	12.25	1.63
3.083	2.45	6.167	107.78	9.250	2.86		

Max.Eff.Inten.(mm/hr)= 107.78 36.21
over (min) 5.00 15.00
Storage Coeff. (min)= 2.18 (ii) 12.77 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.31 0.08

TOTALS

PEAK FLOW (cms)= 0.19 0.02 0.210 (iii)
TIME TO PEAK (hrs)= 6.25 6.33 6.25
RUNOFF VOLUME (mm)= 80.65 24.33 61.49
TOTAL RAINFALL (mm)= 81.65 81.65 81.65
RUNOFF COEFFICIENT = 0.99 0.30 0.75

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0030)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.1600 0.0130

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0281) 0.970 0.210 6.25 61.49
OUTFLOW: ID= 1 (0030) 0.970 0.141 6.25 61.47

PEAK FLOW REDUCTION [Qout/Qin](%)= 67.33
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0125

** SIMULATION:100yr 12hr 15min SCS Type II (MTO) **

| READ STORM | Filename: C:\Users\RObeid\AppData
| | ata\Local\Temp\
| | f159238a-5f00-4f05-ac5e-db202b2121bc\08916079
| Ptotal= 89.60 mm | Comments: 100yr 12hr 15min SCS Type II (MTO)

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.00	0.00	3.25	3.58	6.50	16.13	9.75	3.14
0.25	2.24	3.50	3.58	6.75	7.17	10.00	3.14
0.50	2.24	3.75	3.58	7.00	7.17	10.25	1.79
0.75	2.24	4.00	3.58	7.25	5.38	10.50	1.79
1.00	2.24	4.25	5.38	7.50	5.38	10.75	1.79
1.25	2.24	4.50	5.38	7.75	5.38	11.00	1.79
1.50	2.24	4.75	7.17	8.00	5.38	11.25	1.79
1.75	2.24	5.00	7.17	8.25	3.14	11.50	1.79
2.00	2.24	5.25	10.75	8.50	3.14	11.75	1.79

2.25	2.69	5.50	10.75	8.75	3.14	12.00	1.79
2.50	2.69	5.75	43.01	9.00	3.14		
2.75	2.69	6.00	118.27	9.25	3.14		
3.00	2.69	6.25	16.13	9.50	3.14		

| CALIB |
| STANDHYD (0242)| Area (ha)= 0.72
||ID= 1 DT= 5.0 min | Total Imp(%)= 70.00 Dir. Conn.(%)= 70.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area	(ha)= 0.50	0.22
Dep. Storage	(mm)= 1.00	1.50
Average Slope	(%)= 1.00	2.00
Length	(m)= 69.28	40.00
Mannings n	= 0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14

0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)=	118.27	45.87
over (min)	5.00	10.00
Storage Coeff. (min)=	1.92 (ii)	6.62 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.31	0.14

TOTALS				
PEAK FLOW	(cms)=	0.17	0.02	0.188 (iii)
TIME TO PEAK	(hrs)=	6.25	6.25	6.25
RUNOFF VOLUME	(mm)=	88.60	28.53	70.58
TOTAL RAINFALL	(mm)=	89.60	89.60	89.60
RUNOFF COEFFICIENT	=	0.99	0.32	0.79

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0020) OVERFLOW IS OFF				
IN= 2---> OUT= 1				
DT= 5.0 min OUTFLOW STORAGE OUTFLOW STORAGE				
----- (cms) (ha.m.) (cms) (ha.m.)				
0.0000 0.0000 0.0600 0.0240				

AREA QPEAK TPEAK R.V.				
(ha) (cms) (hrs) (mm)				
INFLOW : ID= 2 (0242) 0.720 0.188 6.25 70.58				
OUTFLOW: ID= 1 (0020) 0.720 0.053 6.33 70.44				

PEAK FLOW REDUCTION [Qout/Qin](%)=		28.23
TIME SHIFT OF PEAK FLOW (min)=		5.00
MAXIMUM STORAGE USED (ha.m.)=		0.0212

| CALIB |
| STANDHYD (0205)| Area (ha)= 0.41
|ID= 1 DT= 5.0 min | Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	0.30	0.11
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	52.28	40.00
Mannings n	= 0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00 3.167	2.69 6.250	118.27 9.33	3.14			
0.167	0.00 3.250	2.69 6.333	16.13 9.42	3.14			
0.250	0.00 3.333	3.58 6.417	16.13 9.50	3.14			
0.333	2.24 3.417	3.58 6.500	16.13 9.58	3.14			
0.417	2.24 3.500	3.58 6.583	16.13 9.67	3.14			
0.500	2.24 3.583	3.58 6.667	16.13 9.75	3.14			
0.583	2.24 3.667	3.58 6.750	16.13 9.83	3.14			
0.667	2.24 3.750	3.58 6.833	7.17 9.92	3.14			
0.750	2.24 3.833	3.58 6.917	7.17 10.00	3.14			
0.833	2.24 3.917	3.58 7.000	7.17 10.08	3.14			
0.917	2.24 4.000	3.58 7.083	7.17 10.17	3.14			
1.000	2.24 4.083	3.58 7.167	7.17 10.25	3.14			
1.083	2.24 4.167	3.58 7.250	7.17 10.33	1.79			
1.167	2.24 4.250	3.58 7.333	5.38 10.42	1.79			
1.250	2.24 4.333	5.38 7.417	5.38 10.50	1.79			
1.333	2.24 4.417	5.38 7.500	5.38 10.58	1.79			
1.417	2.24 4.500	5.38 7.583	5.38 10.67	1.79			

1.500	2.24 4.583	5.38 7.667	5.38 10.75	1.79
1.583	2.24 4.667	5.38 7.750	5.38 10.83	1.79
1.667	2.24 4.750	5.38 7.833	5.38 10.92	1.79
1.750	2.24 4.833	7.17 7.917	5.38 11.00	1.79
1.833	2.24 4.917	7.17 8.000	5.38 11.08	1.79
1.917	2.24 5.000	7.17 8.083	5.38 11.17	1.79
2.000	2.24 5.083	7.17 8.167	5.38 11.25	1.79
2.083	2.24 5.167	7.17 8.250	5.38 11.33	1.79
2.167	2.24 5.250	7.17 8.333	3.14 11.42	1.79
2.250	2.24 5.333	10.75 8.417	3.14 11.50	1.79
2.333	2.69 5.417	10.75 8.500	3.14 11.58	1.79
2.417	2.69 5.500	10.75 8.583	3.14 11.67	1.79
2.500	2.69 5.583	10.75 8.667	3.14 11.75	1.79
2.583	2.69 5.667	10.75 8.750	3.14 11.83	1.79
2.667	2.69 5.750	10.75 8.833	3.14 11.92	1.79
2.750	2.69 5.833	43.01 8.917	3.14 12.00	1.79
2.833	2.69 5.917	43.01 9.000	3.14 12.08	1.79
2.917	2.69 6.000	43.01 9.083	3.14 12.17	1.79
3.000	2.69 6.083	118.27 9.167	3.14 12.25	1.79
3.083	2.69 6.167	118.27 9.250	3.14	

Max.Eff.Inten.(mm/hr)= 118.27 45.87
over (min) 5.00 10.00

Storage Coeff. (min)= 1.62 (ii) 6.05 (ii)

Unit Hyd. Tpeak (min)= 5.00 10.00

Unit Hyd. peak (cms)= 0.32 0.15

TOTALS

PEAK FLOW (cms)= 0.10 0.01 0.110 (iii)

TIME TO PEAK (hrs)= 6.25 6.25 6.25

RUNOFF VOLUME (mm)= 88.60 28.53 72.38

TOTAL RAINFALL (mm)= 89.60 89.60 89.60

RUNOFF COEFFICIENT = 0.99 0.32 0.81

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)=	118.27	45.87
over (min)	5.00	10.00
Storage Coeff. (min)=	2.45 (ii)	6.89 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.30	0.14

TOTALS			
PEAK FLOW (cms)=	0.39	0.04	0.438 (iii)
TIME TO PEAK (hrs)=	6.25	6.25	6.25
RUNOFF VOLUME (mm)=	88.60	28.53	72.38
TOTAL RAINFALL (mm)=	89.60	89.60	89.60
RUNOFF COEFFICIENT =	0.99	0.32	0.81

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0022)	OVERFLOW IS OFF		
IN= 2---> OUT= 1			
DT= 5.0 min	OUTFLOW	STORAGE	OUTFLOW STORAGE
-----	(cms)	(ha.m.)	(cms) (ha.m.)
	0.0000	0.0000	0.3030 0.0230

	AREA	QPEAK	TPEAK	R.V.
	(ha)	(cms)	(hrs)	(mm)
INFLOW : ID= 2 (0206)	1.640	0.438	6.25	72.38
OUTFLOW: ID= 1 (0022)	1.640	0.302	6.25	72.37

PEAK FLOW REDUCTION [Qout/Qin](%)=	68.88
TIME SHIFT OF PEAK FLOW (min)=	0.00
MAXIMUM STORAGE USED (ha.m.)=	0.0249

CALIB	
STANDHYD (0271)	Area (ha)= 2.67
ID= 1 DT= 5.0 min	Total Imp(%)= 65.00 Dir. Conn.(%)= 65.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	1.74	0.93
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	133.42	40.00
Mannings n =	0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----			
TIME	RAIN	TIME	RAIN
TIME	RAIN	TIME	RAIN
TIME	RAIN	TIME	RAIN
TIME	RAIN	TIME	RAIN

hrs	mm/hr	hrs	mm/hr	'	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14	
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14	
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14	
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14	
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14	
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14	
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14	
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14	
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14	
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14	
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14	
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14	
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79	
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79	
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79	
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79	
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79	
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79	
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79	
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79	
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79	
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79	
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79	
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79	
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79	
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79	
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79	
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79	
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79	
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79	
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79	
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79	
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79	

2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)=	118.27	45.87
over (min)	5.00	15.00
Storage Coeff. (min)=	2.84 (ii)	12.48 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.28	0.08

TOTALS

PEAK FLOW (cms)=	0.57	0.07	0.631 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	88.60	28.53	67.57
TOTAL RAINFALL (mm)=	89.60	89.60	89.60
RUNOFF COEFFICIENT =	0.99	0.32	0.75

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0023)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.4710 0.0300

AREA	QPEAK	TPEAK	R.V.
------	-------	-------	------

(ha) (cms) (hrs) (mm)

INFLOW : ID= 2 (0271) 2.670 0.631 6.25 67.57

OUTFLOW: ID= 1 (0023) 2.670 0.461 6.25 67.57

PEAK FLOW REDUCTION [Qout/Qin](%)= 73.08

TIME SHIFT OF PEAK FLOW (min)= 0.00

MAXIMUM STORAGE USED (ha.m.)= 0.0319

| CALIB |

| STANDHYD (0282)| Area (ha)= 1.33

|ID= 1 DT= 5.0 min | Total Imp(%)= 72.00 Dir. Conn.(%)= 72.00

IMPERVIOUS PERVIOUS (i)

Surface Area (ha)= 0.96 0.37

Dep. Storage (mm)= 1.00 1.50

Average Slope (%)= 1.00 2.00

Length (m)= 94.16 40.00

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN '	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr '	hrs	mm/hr	hrs	mm/hr
0.083	0.00 3.167	2.69	6.250	118.27	9.33	3.14	
0.167	0.00 3.250	2.69	6.333	16.13	9.42	3.14	
0.250	0.00 3.333	3.58	6.417	16.13	9.50	3.14	
0.333	2.24 3.417	3.58	6.500	16.13	9.58	3.14	
0.417	2.24 3.500	3.58	6.583	16.13	9.67	3.14	
0.500	2.24 3.583	3.58	6.667	16.13	9.75	3.14	
0.583	2.24 3.667	3.58	6.750	16.13	9.83	3.14	

0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)= 118.27 45.87

over (min) 5.00 10.00

Storage Coeff. (min)= 2.30 (ii) 6.83 (ii)

Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.30 0.14

TOTALS
PEAK FLOW (cms)= 0.31 0.04 0.352 (iii)
TIME TO PEAK (hrs)= 6.25 6.25 6.25
RUNOFF VOLUME (mm)= 88.60 28.53 71.78
TOTAL RAINFALL (mm)= 89.60 89.60 89.60
RUNOFF COEFFICIENT = 0.99 0.32 0.80

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
CN* = 58.0 Ia = Dep. Storage (Above)
(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0024)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.2530 0.0200

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0282) 1.330 0.352 6.25 71.78
OUTFLOW: ID= 1 (0024) 1.330 0.239 6.25 71.77

PEAK FLOW REDUCTION [Qout/Qin](%)= 67.81
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0206

| CALIB |
| STANDHYD (0209)| Area (ha)= 1.23
|ID= 1 DT= 5.0 min | Total Imp(%)= 73.00 Dir. Conn.(%)= 73.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.90 0.33
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 90.55 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79

1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)= 118.27 45.87
over (min) 5.00 10.00

Storage Coeff. (min)= 2.25 (ii) 6.68 (ii)

Unit Hyd. Tpeak (min)= 5.00 10.00

Unit Hyd. peak (cms)= 0.30 0.14

TOTALS

PEAK FLOW (cms)= 0.29 0.03 0.329 (iii)

TIME TO PEAK (hrs)= 6.25 6.25 6.25

RUNOFF VOLUME (mm)= 88.60 28.53 72.38

TOTAL RAINFALL (mm)= 89.60 89.60 89.60

RUNOFF COEFFICIENT = 0.99 0.32 0.81

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL

THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0025)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.2410 0.0160

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0209) 1.230 0.329 6.25 72.38
OUTFLOW: ID= 1 (0025) 1.230 0.240 6.25 72.37

PEAK FLOW REDUCTION [Qout/Qin](%)= 73.15

TIME SHIFT OF PEAK FLOW (min)= 0.00

MAXIMUM STORAGE USED (ha.m.)= 0.0173

| CALIB |
| STANDHYD (0210)| Area (ha)= 0.90
|ID= 1 DT= 5.0 min | Total Imp(%)= 69.00 Dir. Conn.(%)= 69.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 0.62 0.28

Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 77.46 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79

2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)= 118.27 79.86
over (min) 5.00 10.00
Storage Coeff. (min)= 2.05 (ii) 6.84 (ii)
Unit Hyd. Tpeak (min)= 5.00 10.00
Unit Hyd. peak (cms)= 0.31 0.14

TOTALS

PEAK FLOW (cms)= 0.20 0.05 0.255 (iii)
TIME TO PEAK (hrs)= 6.25 6.25 6.25
RUNOFF VOLUME (mm)= 88.60 49.88 76.59
TOTAL RAINFALL (mm)= 89.60 89.60 89.60
RUNOFF COEFFICIENT = 0.99 0.56 0.85

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 79.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0026)| OVERFLOW IS OFF
| IN= 2---> OUT= 1 |
| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE
----- (cms) (ha.m.) | (cms) (ha.m.)
0.0000 0.0000 | 0.2340 0.0090

AREA QPEAK TPEAK R.V.
(ha) (cms) (hrs) (mm)
INFLOW : ID= 2 (0210) 0.900 0.255 6.25 76.59
OUTFLOW: ID= 1 (0026) 0.900 0.219 6.25 76.59

PEAK FLOW REDUCTION [Qout/Qin](%)= 85.85
TIME SHIFT OF PEAK FLOW (min)= 0.00
MAXIMUM STORAGE USED (ha.m.)= 0.0090

| CALIB |
| STANDHYD (0203)| Area (ha)= 4.48
|ID= 1 DT= 5.0 min | Total Imp(%)= 71.00 Dir. Conn.(%)= 71.00

IMPERVIOUS PERVIOUS (i)
Surface Area (ha)= 3.18 1.30
Dep. Storage (mm)= 1.00 1.50
Average Slope (%)= 1.00 2.00
Length (m)= 172.82 40.00
Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79
1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79

2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)=	118.27	58.64
over (min)	5.00	10.00
Storage Coeff. (min)=	3.32 (ii)	7.93 (ii)
Unit Hyd. Tpeak (min)=	5.00	10.00
Unit Hyd. peak (cms)=	0.26	0.13

TOTALS			
PEAK FLOW (cms)=	1.04	0.16	1.201 (iii)
TIME TO PEAK (hrs)=	6.25	6.25	6.25
RUNOFF VOLUME (mm)=	88.60	36.40	73.46
TOTAL RAINFALL (mm)=	89.60	89.60	89.60
RUNOFF COEFFICIENT =	0.99	0.41	0.82

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
- CN* = 67.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
- THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

CALIB			
STANDHYD (0202)	Area (ha)=	0.80	
ID= 1 DT= 5.0 min	Total Imp(%)=	50.00	Dir. Conn.(%)= 50.00

	IMPERVIOUS	PERVIOUS (i)	

Surface Area (ha)=	0.40	0.40
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	73.03	40.00
Mannings n	=	0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN		TIME	RAIN	'	TIME	RAIN
hrs	mm/hr		hrs	mm/hr	'	hrs	mm/hr
0.083	0.00		3.167	2.69		6.250	118.27
						9.33	3.14
0.167	0.00		3.250	2.69		6.333	16.13
						9.42	3.14
0.250	0.00		3.333	3.58		6.417	16.13
						9.50	3.14
0.333	2.24		3.417	3.58		6.500	16.13
						9.58	3.14
0.417	2.24		3.500	3.58		6.583	16.13
						9.67	3.14
0.500	2.24		3.583	3.58		6.667	16.13
						9.75	3.14
0.583	2.24		3.667	3.58		6.750	16.13
						9.83	3.14
0.667	2.24		3.750	3.58		6.833	7.17
						9.92	3.14
0.750	2.24		3.833	3.58		6.917	7.17
						10.00	3.14
0.833	2.24		3.917	3.58		7.000	7.17
						10.08	3.14
0.917	2.24		4.000	3.58		7.083	7.17
						10.17	3.14
1.000	2.24		4.083	3.58		7.167	7.17
						10.25	3.14
1.083	2.24		4.167	3.58		7.250	7.17
						10.33	1.79
1.167	2.24		4.250	3.58		7.333	5.38
						10.42	1.79
1.250	2.24		4.333	5.38		7.417	5.38
						10.50	1.79
1.333	2.24		4.417	5.38		7.500	5.38
						10.58	1.79
1.417	2.24		4.500	5.38		7.583	5.38
						10.67	1.79
1.500	2.24		4.583	5.38		7.667	5.38
						10.75	1.79
1.583	2.24		4.667	5.38		7.750	5.38
						10.83	1.79
1.667	2.24		4.750	5.38		7.833	5.38
						10.92	1.79
1.750	2.24		4.833	7.17		7.917	5.38
						11.00	1.79
1.833	2.24		4.917	7.17		8.000	5.38
						11.08	1.79

1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)=	118.27	65.15
over (min)	5.00	15.00
Storage Coeff. (min)=	1.98 (ii)	10.36 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.31	0.09

TOTALS

PEAK FLOW (cms)=	0.13	0.05	0.174 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	88.60	40.46	64.52
TOTAL RAINFALL (mm)=	89.60	89.60	89.60
RUNOFF COEFFICIENT =	0.99	0.45	0.72

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 71.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| ADD HYD (0045)|

1 + 2 = 3	AREA	QPEAK	TPEAK	R.V.
-----------	------	-------	-------	------

(ha)	(cms)	(hrs)	(mm)
------	-------	-------	------

ID1= 1 (0202): 0.80 0.174 6.25 64.52

+ ID2= 2 (0203): 4.48 1.201 6.25 73.46

ID = 3 (0045): 5.28 1.375 6.25 72.11

NOTE: PEAK FLOWS DO NOT INCLUDE BASEFLOWS IF ANY.

| RESERVOIR(0027)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

DT= 5.0 min	OUTFLOW	STORAGE	OUTFLOW	STORAGE
-------------	---------	---------	---------	---------

(cms)	(ha.m.)	(cms)	(ha.m.)
-------	---------	-------	---------

0.0000	0.0000	0.7040	0.1100
--------	--------	--------	--------

AREA	QPEAK	TPEAK	R.V.
------	-------	-------	------

(ha)	(cms)	(hrs)	(mm)
------	-------	-------	------

INFLOW : ID= 2 (0045) 5.280 1.375 6.25 72.11

OUTFLOW: ID= 1 (0027) 5.280 0.689 6.33 72.10

PEAK FLOW REDUCTION [Qout/Qin](%)= 50.14

TIME SHIFT OF PEAK FLOW (min)= 5.00

MAXIMUM STORAGE USED (ha.m.)= 0.1095

| CALIB |

| STANDHYD (0241)| Area (ha)= 3.10
|ID= 1 DT= 5.0 min | Total Imp(%)= 66.00 Dir. Conn.(%)= 66.00

	IMPERVIOUS	PERVIOUS (i)
Surface Area (ha)=	2.05	1.05
Dep. Storage (mm)=	1.00	1.50
Average Slope (%)=	1.00	2.00
Length (m)=	143.76	40.00
Mannings n	= 0.013	0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----

TIME	RAIN	TIME	RAIN	TIME	RAIN	TIME	RAIN
hrs	mm/hr	hrs	mm/hr	hrs	mm/hr	hrs	mm/hr
0.083	0.00	3.167	2.69	6.250	118.27	9.33	3.14
0.167	0.00	3.250	2.69	6.333	16.13	9.42	3.14
0.250	0.00	3.333	3.58	6.417	16.13	9.50	3.14
0.333	2.24	3.417	3.58	6.500	16.13	9.58	3.14
0.417	2.24	3.500	3.58	6.583	16.13	9.67	3.14
0.500	2.24	3.583	3.58	6.667	16.13	9.75	3.14
0.583	2.24	3.667	3.58	6.750	16.13	9.83	3.14
0.667	2.24	3.750	3.58	6.833	7.17	9.92	3.14
0.750	2.24	3.833	3.58	6.917	7.17	10.00	3.14
0.833	2.24	3.917	3.58	7.000	7.17	10.08	3.14
0.917	2.24	4.000	3.58	7.083	7.17	10.17	3.14
1.000	2.24	4.083	3.58	7.167	7.17	10.25	3.14
1.083	2.24	4.167	3.58	7.250	7.17	10.33	1.79
1.167	2.24	4.250	3.58	7.333	5.38	10.42	1.79
1.250	2.24	4.333	5.38	7.417	5.38	10.50	1.79
1.333	2.24	4.417	5.38	7.500	5.38	10.58	1.79
1.417	2.24	4.500	5.38	7.583	5.38	10.67	1.79
1.500	2.24	4.583	5.38	7.667	5.38	10.75	1.79

1.583	2.24	4.667	5.38	7.750	5.38	10.83	1.79
1.667	2.24	4.750	5.38	7.833	5.38	10.92	1.79
1.750	2.24	4.833	7.17	7.917	5.38	11.00	1.79
1.833	2.24	4.917	7.17	8.000	5.38	11.08	1.79
1.917	2.24	5.000	7.17	8.083	5.38	11.17	1.79
2.000	2.24	5.083	7.17	8.167	5.38	11.25	1.79
2.083	2.24	5.167	7.17	8.250	5.38	11.33	1.79
2.167	2.24	5.250	7.17	8.333	3.14	11.42	1.79
2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)= 118.27 45.87
over (min) 5.00 15.00
Storage Coeff. (min)= 2.97 (ii) 12.61 (ii)
Unit Hyd. Tpeak (min)= 5.00 15.00
Unit Hyd. peak (cms)= 0.28 0.08

TOTALS

PEAK FLOW (cms)= 0.67 0.08 0.739 (iii)
TIME TO PEAK (hrs)= 6.25 6.33 6.25
RUNOFF VOLUME (mm)= 88.60 28.53 68.17
TOTAL RAINFALL (mm)= 89.60 89.60 89.60
RUNOFF COEFFICIENT = 0.99 0.32 0.76

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

- (i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:
- CN* = 58.0 Ia = Dep. Storage (Above)
- (ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.
- (iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

RESERVOIR(0028) OVERFLOW IS OFF				
IN= 2--> OUT= 1				
DT= 5.0 min OUTFLOW STORAGE OUTFLOW STORAGE				
----- (cms) (ha.m.) (cms) (ha.m.)				
0.0000 0.0000 0.1320 0.1200				
AREA QPEAK TPEAK R.V.				
(ha) (cms) (hrs) (mm)				
INFLOW : ID= 2 (0241) 3.100 0.739 6.25 68.17				
OUTFLOW: ID= 1 (0028) 3.100 0.120 6.75 68.10				
PEAK FLOW REDUCTION [Qout/Qin](%)= 16.17				
TIME SHIFT OF PEAK FLOW (min)= 30.00				
MAXIMUM STORAGE USED (ha.m.)= 0.1088				

CALIB				
STANDHYD (0281) Area (ha)= 0.97				
ID= 1 DT= 5.0 min Total Imp(%)= 66.00 Dir. Conn.(%)= 66.00				

IMPERVIOUS PERVIOUS (i)				
Surface Area (ha)= 0.64 0.33				
Dep. Storage (mm)= 1.00 1.50				
Average Slope (%)= 1.00 2.00				
Length (m)= 80.42 40.00				

Mannings n = 0.013 0.250

NOTE: RAINFALL WAS TRANSFORMED TO 5.0 MIN. TIME STEP.

---- TRANSFORMED HYETOGRAPH ----							
TIME	RAIN		TIME	RAIN		TIME	RAIN
hrs	mm/hr		hrs	mm/hr		hrs	mm/hr
0.083	0.00		3.167	2.69		6.250	118.27
0.167	0.00		3.250	2.69		6.333	16.13
0.250	0.00		3.333	3.58		6.417	16.13
0.333	2.24		3.417	3.58		6.500	16.13
0.417	2.24		3.500	3.58		6.583	16.13
0.500	2.24		3.583	3.58		6.667	16.13
0.583	2.24		3.667	3.58		6.750	16.13
0.667	2.24		3.750	3.58		6.833	7.17
0.750	2.24		3.833	3.58		6.917	7.17
0.833	2.24		3.917	3.58		7.000	7.17
0.917	2.24		4.000	3.58		7.083	7.17
1.000	2.24		4.083	3.58		7.167	7.17
1.083	2.24		4.167	3.58		7.250	7.17
1.167	2.24		4.250	3.58		7.333	5.38
1.250	2.24		4.333	5.38		7.417	5.38
1.333	2.24		4.417	5.38		7.500	5.38
1.417	2.24		4.500	5.38		7.583	5.38
1.500	2.24		4.583	5.38		7.667	5.38
1.583	2.24		4.667	5.38		7.750	5.38
1.667	2.24		4.750	5.38		7.833	5.38
1.750	2.24		4.833	7.17		7.917	5.38
1.833	2.24		4.917	7.17		8.000	5.38
1.917	2.24		5.000	7.17		8.083	5.38
2.000	2.24		5.083	7.17		8.167	5.38
2.083	2.24		5.167	7.17		8.250	5.38
2.167	2.24		5.250	7.17		8.333	3.14

2.250	2.24	5.333	10.75	8.417	3.14	11.50	1.79
2.333	2.69	5.417	10.75	8.500	3.14	11.58	1.79
2.417	2.69	5.500	10.75	8.583	3.14	11.67	1.79
2.500	2.69	5.583	10.75	8.667	3.14	11.75	1.79
2.583	2.69	5.667	10.75	8.750	3.14	11.83	1.79
2.667	2.69	5.750	10.75	8.833	3.14	11.92	1.79
2.750	2.69	5.833	43.01	8.917	3.14	12.00	1.79
2.833	2.69	5.917	43.01	9.000	3.14	12.08	1.79
2.917	2.69	6.000	43.01	9.083	3.14	12.17	1.79
3.000	2.69	6.083	118.27	9.167	3.14	12.25	1.79
3.083	2.69	6.167	118.27	9.250	3.14		

Max.Eff.Inten.(mm/hr)=	118.27	45.87
over (min)	5.00	15.00
Storage Coeff. (min)=	2.10 (ii)	11.74 (ii)
Unit Hyd. Tpeak (min)=	5.00	15.00
Unit Hyd. peak (cms)=	0.31	0.09

TOTALS			
PEAK FLOW (cms)=	0.21	0.03	0.233 (iii)
TIME TO PEAK (hrs)=	6.25	6.33	6.25
RUNOFF VOLUME (mm)=	88.60	28.53	68.17
TOTAL RAINFALL (mm)=	89.60	89.60	89.60
RUNOFF COEFFICIENT =	0.99	0.32	0.76

***** WARNING: STORAGE COEFF. IS SMALLER THAN TIME STEP!

(i) CN PROCEDURE SELECTED FOR PERVIOUS LOSSES:

CN* = 58.0 Ia = Dep. Storage (Above)

(ii) TIME STEP (DT) SHOULD BE SMALLER OR EQUAL
THAN THE STORAGE COEFFICIENT.

(iii) PEAK FLOW DOES NOT INCLUDE BASEFLOW IF ANY.

| RESERVOIR(0030)| OVERFLOW IS OFF

| IN= 2---> OUT= 1 |

| DT= 5.0 min | OUTFLOW STORAGE | OUTFLOW STORAGE

-----	(cms)	(ha.m.)		(cms)	(ha.m.)
	0.0000	0.0000		0.1600	0.0130

AREA	QPEAK	TPEAK	R.V.	
(ha)	(cms)	(hrs)	(mm)	
INFLOW : ID= 2 (0281)	0.970	0.233	6.25	68.17
OUTFLOW: ID= 1 (0030)	0.970	0.157	6.25	68.16

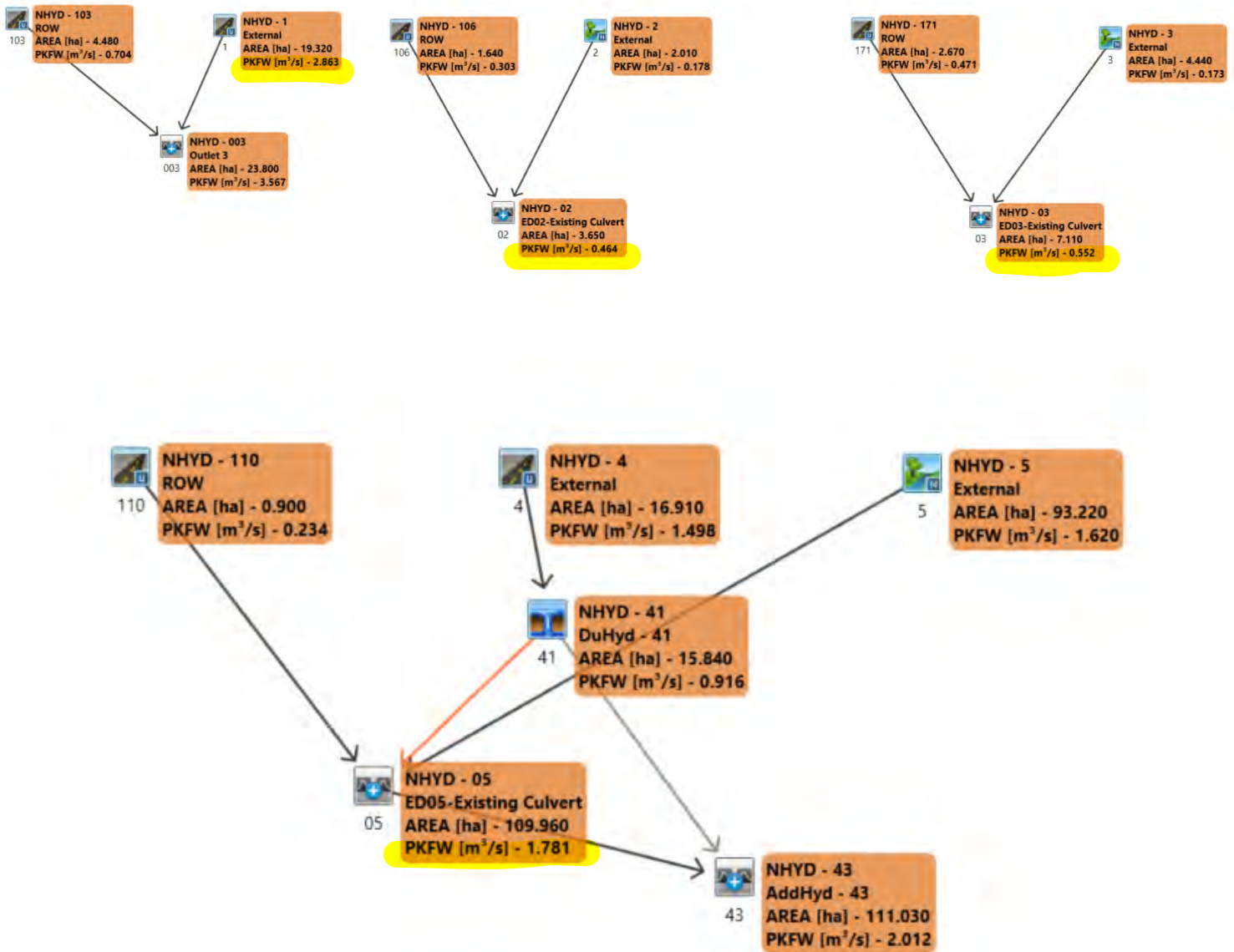
PEAK FLOW REDUCTION [Qout/Qin](%)= 67.23

TIME SHIFT OF PEAK FLOW (min)= 0.00

MAXIMUM STORAGE USED (ha.m.)= 0.0139

APPENDIX D: HYDRAULICS ASSESSMENT

VO CULVERTS SCHEMATIC - 100 YR - 12HR - 15min - SCS Type II
EXISTING



APPENDIX D1: HY-8 OUTPUT

HY-8 Culvert Analysis Report

EXISTING CULVERTS

5-Year

Culvert Data: ED02

Culvert Data Summary - ED02

Barrel Shape: Circular

Barrel Diameter: 800.00 mm

Barrel Material: Concrete

Embedment: 0.00 mm

Barrel Manning's n: 0.0130

Culvert Type: Straight

Inlet Configuration: Square Edge with Headwall (Ke=0.5)

Inlet Depression: None

Site Data - ED02

Site Data Option: Culvert Invert Data

Inlet Station: 100.00 m

Inlet Elevation: 271.47 m

Outlet Station: 137.04 m

Outlet Elevation: 271.17 m

Number of Barrels: 1

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.22 cms

Maximum Flow: 3.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 1

Headwater Elevation (m)	Total Discharge (cms)	ED02 Discharge (cms)	Roadway Discharge (cms)	Iterations
271.65	0.00	0.00	0.00	1
271.85	0.22	0.22	0.00	1
272.18	0.60	0.60	0.00	1
272.42	0.90	0.90	0.00	1
272.74	1.20	1.20	0.00	1
273.16	1.50	1.50	0.00	1
273.25	1.80	1.56	0.23	15
273.26	2.10	1.57	0.53	5
273.27	2.40	1.57	0.83	5
273.28	2.70	1.57	1.12	4
273.28	3.00	1.58	1.42	4
273.24	1.55	1.55	0.00	Overtopping

Culvert Data: ED03

Culvert Data Summary - ED03

Barrel Shape: Circular

Barrel Diameter: 900.00 mm

Barrel Material: Concrete

Embedment: 0.00 mm

Barrel Manning's n: 0.0130

Culvert Type: Straight

Inlet Configuration: Square Edge with Headwall (Ke=0.5)

Inlet Depression: None

Site Data - ED03

Site Data Option: Culvert Invert Data

Inlet Station: 100.00 m

Inlet Elevation: 264.87 m

Outlet Station: 129.82 m

Outlet Elevation: 264.47 m

Number of Barrels: 1

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.27 cms

Maximum Flow: 3.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Culvert Crossing 2

Headwater Elevation (m)	Total Discharge (cms)	ED03 Discharge (cms)	Roadway Discharge (cms)	Iterations
265.01	0.00	0.00	0.00	1
265.28	0.27	0.27	0.00	1
265.53	0.60	0.60	0.00	1
265.73	0.90	0.90	0.00	1
265.94	1.20	1.20	0.00	1
266.19	1.50	1.50	0.00	1
266.50	1.80	1.80	0.00	1
266.60	2.10	1.88	0.21	16
266.61	2.40	1.89	0.50	5
266.62	2.70	1.90	0.80	5
266.63	3.00	1.90	1.09	4
266.59	1.87	1.87	0.00	Overtopping

Culvert Data: ED05

Culvert Data Summary - ED05

Barrel Shape: Circular

Barrel Diameter: 1050.00 mm

Barrel Material: Concrete

Embedment: 0.00 mm

Barrel Manning's n: 0.0130

Culvert Type: Straight

Inlet Configuration: Square Edge with Headwall (Ke=0.5)

Inlet Depression: None

Site Data - ED05

Site Data Option: Culvert Invert Data

Inlet Station: 100.00 m

Inlet Elevation: 248.68 m

Outlet Station: 158.89 m

Outlet Elevation: 248.31 m

Number of Barrels: 1

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.93 cms

Maximum Flow: 3.00 cms

Table 4 - Summary of Culvert Flows at Crossing: Culvert Crossing 4

Headwater Elevation (m)	Total Discharge (cms)	ED05 Discharge (cms)	Roadway Discharge (cms)	Iterations
248.94	0.00	0.00	0.00	1
249.09	0.30	0.30	0.00	1
249.29	0.60	0.60	0.00	1
249.48	0.93	0.93	0.00	1
249.62	1.20	1.20	0.00	1
249.78	1.50	1.50	0.00	1
249.95	1.80	1.80	0.00	1
250.15	2.10	2.10	0.00	1
250.37	2.40	2.40	0.00	1
250.64	2.70	2.70	0.00	1
250.94	3.00	3.00	0.00	1
252.31	4.05	4.05	0.00	Overtopping

10-Year

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.28 cms

Maximum Flow: 3.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 1

Headwater Elevation (m)	Total Discharge (cms)	ED02 Discharge (cms)	Roadway Discharge (cms)	Iterations
271.65	0.00	0.00	0.00	1
271.91	0.28	0.28	0.00	1
272.18	0.60	0.60	0.00	1
272.42	0.90	0.90	0.00	1
272.74	1.20	1.20	0.00	1
273.16	1.50	1.50	0.00	1
273.25	1.80	1.56	0.23	15
273.26	2.10	1.57	0.53	5
273.27	2.40	1.57	0.83	5
273.28	2.70	1.57	1.12	4
273.28	3.00	1.58	1.42	4
273.24	1.55	1.55	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.34 cms

Maximum Flow: 3.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Culvert Crossing 2

Headwater Elevation (m)	Total Discharge (cms)	ED03 Discharge (cms)	Roadway Discharge (cms)	Iterations
265.01	0.00	0.00	0.00	1
265.33	0.34	0.34	0.00	1
265.53	0.60	0.60	0.00	1
265.73	0.90	0.90	0.00	1
265.94	1.20	1.20	0.00	1
266.19	1.50	1.50	0.00	1
266.50	1.80	1.80	0.00	1
266.60	2.10	1.88	0.21	16

266.61	2.40	1.89	0.50	5
266.62	2.70	1.90	0.80	5
266.63	3.00	1.90	1.09	4
266.59	1.87	1.87	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 1.19 cms

Maximum Flow: 3.00 cms

Table 4 - Summary of Culvert Flows at Crossing: Culvert Crossing 4

Headwater Elevation (m)	Total Discharge (cms)	ED05 Discharge (cms)	Roadway Discharge (cms)	Iterations
248.94	0.00	0.00	0.00	1
249.09	0.30	0.30	0.00	1
249.29	0.60	0.60	0.00	1
249.47	0.90	0.90	0.00	1
249.62	1.19	1.19	0.00	1
249.78	1.50	1.50	0.00	1
249.95	1.80	1.80	0.00	1
250.15	2.10	2.10	0.00	1
250.37	2.40	2.40	0.00	1
250.64	2.70	2.70	0.00	1
250.94	3.00	3.00	0.00	1
252.31	4.05	4.05	0.00	Overtopping

25-Year

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.35 cms

Maximum Flow: 3.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 1

Headwater Elevation (m)	Total Discharge (cms)	ED02 Discharge (cms)	Roadway Discharge (cms)	Iterations
271.65	0.00	0.00	0.00	1
271.98	0.35	0.35	0.00	1
272.18	0.60	0.60	0.00	1
272.42	0.90	0.90	0.00	1
272.74	1.20	1.20	0.00	1
273.16	1.50	1.50	0.00	1
273.25	1.80	1.56	0.23	15
273.26	2.10	1.57	0.53	5
273.27	2.40	1.57	0.83	5
273.28	2.70	1.57	1.12	4
273.28	3.00	1.58	1.42	4
273.24	1.55	1.55	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.43 cms

Maximum Flow: 3.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Culvert Crossing 2

Headwater Elevation (m)	Total Discharge (cms)	ED03 Discharge (cms)	Roadway Discharge (cms)	Iterations
265.01	0.00	0.00	0.00	1
265.41	0.43	0.43	0.00	1
265.53	0.60	0.60	0.00	1
265.73	0.90	0.90	0.00	1
265.94	1.20	1.20	0.00	1
266.19	1.50	1.50	0.00	1
266.50	1.80	1.80	0.00	1
266.60	2.10	1.88	0.21	16

266.61	2.40	1.89	0.50	5
266.62	2.70	1.90	0.80	5
266.63	3.00	1.90	1.09	4
266.59	1.87	1.87	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 1.28 cms

Maximum Flow: 3.00 cms

Table 4 - Summary of Culvert Flows at Crossing: Culvert Crossing 4

Headwater Elevation (m)	Total Discharge (cms)	ED05 Discharge (cms)	Roadway Discharge (cms)	Iterations
248.94	0.00	0.00	0.00	1
249.09	0.30	0.30	0.00	1
249.29	0.60	0.60	0.00	1
249.47	0.90	0.90	0.00	1
249.66	1.28	1.28	0.00	1
249.78	1.50	1.50	0.00	1
249.95	1.80	1.80	0.00	1
250.15	2.10	2.10	0.00	1
250.37	2.40	2.40	0.00	1
250.64	2.70	2.70	0.00	1
250.94	3.00	3.00	0.00	1
252.31	4.05	4.05	0.00	Overtopping

50-Year

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.41 cms

Maximum Flow: 3.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 1

Headwater Elevation (m)	Total Discharge (cms)	ED02 Discharge (cms)	Roadway Discharge (cms)	Iterations
271.65	0.00	0.00	0.00	1
272.03	0.41	0.41	0.00	1
272.18	0.60	0.60	0.00	1
272.42	0.90	0.90	0.00	1
272.74	1.20	1.20	0.00	1
273.16	1.50	1.50	0.00	1
273.25	1.80	1.56	0.23	15
273.26	2.10	1.57	0.53	5
273.27	2.40	1.57	0.83	5
273.28	2.70	1.57	1.12	4
273.28	3.00	1.58	1.42	4
273.24	1.55	1.55	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.49 cms

Maximum Flow: 3.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Culvert Crossing 2

Headwater Elevation (m)	Total Discharge (cms)	ED03 Discharge (cms)	Roadway Discharge (cms)	Iterations
265.01	0.00	0.00	0.00	1
265.30	0.30	0.30	0.00	1
265.46	0.49	0.49	0.00	1
265.73	0.90	0.90	0.00	1
265.94	1.20	1.20	0.00	1
266.19	1.50	1.50	0.00	1
266.50	1.80	1.80	0.00	1
266.60	2.10	1.88	0.21	16

266.61	2.40	1.89	0.50	5
266.62	2.70	1.90	0.80	5
266.63	3.00	1.90	1.09	4
266.59	1.87	1.87	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 1.50 cms

Maximum Flow: 3.00 cms

Table 4 - Summary of Culvert Flows at Crossing: Culvert Crossing 4

Headwater Elevation (m)	Total Discharge (cms)	ED05 Discharge (cms)	Roadway Discharge (cms)	Iterations
248.94	0.00	0.00	0.00	1
249.09	0.30	0.30	0.00	1
249.29	0.60	0.60	0.00	1
249.47	0.90	0.90	0.00	1
249.62	1.20	1.20	0.00	1
249.78	1.50	1.50	0.00	1
249.95	1.80	1.80	0.00	1
250.15	2.10	2.10	0.00	1
250.37	2.40	2.40	0.00	1
250.64	2.70	2.70	0.00	1
250.94	3.00	3.00	0.00	1
252.31	4.05	4.05	0.00	Overtopping

100-Year

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.46 cms

Maximum Flow: 3.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 1

Headwater Elevation (m)	Total Discharge (cms)	ED02 Discharge (cms)	Roadway Discharge (cms)	Iterations
271.65	0.00	0.00	0.00	1
271.93	0.30	0.30	0.00	1
272.07	0.46	0.46	0.00	1
272.42	0.90	0.90	0.00	1
272.74	1.20	1.20	0.00	1
273.16	1.50	1.50	0.00	1
273.25	1.80	1.56	0.23	15
273.26	2.10	1.57	0.53	5
273.27	2.40	1.57	0.83	5
273.28	2.70	1.57	1.12	4
273.28	3.00	1.58	1.42	4
273.24	1.55	1.55	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.55 cms

Maximum Flow: 3.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Culvert Crossing 2

Headwater Elevation (m)	Total Discharge (cms)	ED03 Discharge (cms)	Roadway Discharge (cms)	Iterations
265.01	0.00	0.00	0.00	1
265.30	0.30	0.30	0.00	1
265.50	0.55	0.55	0.00	1
265.73	0.90	0.90	0.00	1
265.94	1.20	1.20	0.00	1
266.19	1.50	1.50	0.00	1
266.50	1.80	1.80	0.00	1
266.60	2.10	1.88	0.21	16

266.61	2.40	1.89	0.50	5
266.62	2.70	1.90	0.80	5
266.63	3.00	1.90	1.09	4
266.59	1.87	1.87	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 1.78 cms

Maximum Flow: 3.00 cms

Table 4 - Summary of Culvert Flows at Crossing: Culvert Crossing 4

Headwater Elevation (m)	Total Discharge (cms)	ED05 Discharge (cms)	Roadway Discharge (cms)	Iterations
248.94	0.00	0.00	0.00	1
249.09	0.30	0.30	0.00	1
249.29	0.60	0.60	0.00	1
249.47	0.90	0.90	0.00	1
249.62	1.20	1.20	0.00	1
249.78	1.50	1.50	0.00	1
249.94	1.78	1.78	0.00	1
250.15	2.10	2.10	0.00	1
250.37	2.40	2.40	0.00	1
250.64	2.70	2.70	0.00	1
250.94	3.00	3.00	0.00	1
252.31	4.05	4.05	0.00	Overtopping

1.3x100-Year

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.60 cms

Maximum Flow: 3.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 1

Headwater Elevation (m)	Total Discharge (cms)	ED02 Discharge (cms)	Roadway Discharge (cms)	Iterations
271.65	0.00	0.00	0.00	1
271.93	0.30	0.30	0.00	1
272.18	0.60	0.60	0.00	1
272.42	0.90	0.90	0.00	1
272.74	1.20	1.20	0.00	1
273.16	1.50	1.50	0.00	1
273.25	1.80	1.56	0.23	15
273.26	2.10	1.57	0.53	5
273.27	2.40	1.57	0.83	5
273.28	2.70	1.57	1.12	4
273.28	3.00	1.58	1.42	4
273.24	1.55	1.55	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 0.72 cms

Maximum Flow: 3.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Culvert Crossing 2

Headwater Elevation (m)	Total Discharge (cms)	ED03 Discharge (cms)	Roadway Discharge (cms)	Iterations
265.01	0.00	0.00	0.00	1
265.30	0.30	0.30	0.00	1
265.61	0.72	0.72	0.00	1
265.73	0.90	0.90	0.00	1

265.94	1.20	1.20	0.00	1
266.19	1.50	1.50	0.00	1
266.50	1.80	1.80	0.00	1
266.60	2.10	1.88	0.21	16
266.61	2.40	1.89	0.50	5
266.62	2.70	1.90	0.80	5
266.63	3.00	1.90	1.09	4
266.59	1.87	1.87	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 2.32 cms

Maximum Flow: 3.00 cms

Table 4 - Summary of Culvert Flows at Crossing: Culvert Crossing 4

Headwater Elevation (m)	Total Discharge (cms)	ED05 Discharge (cms)	Roadway Discharge (cms)	Iterations
248.94	0.00	0.00	0.00	1
249.09	0.30	0.30	0.00	1
249.29	0.60	0.60	0.00	1
249.47	0.90	0.90	0.00	1
249.62	1.20	1.20	0.00	1
249.78	1.50	1.50	0.00	1
249.95	1.80	1.80	0.00	1
250.15	2.10	2.10	0.00	1
250.31	2.32	2.32	0.00	1
250.64	2.70	2.70	0.00	1
250.94	3.00	3.00	0.00	1
252.31	4.05	4.05	0.00	Overtopping

HY-8 Culvert Analysis Report

PROPOSED CULVERTS

5-Year

Culvert Data: WD07-TWIN 900 Barrel 1

Culvert Data Summary - WD07-TWIN 900 Barrel 1

Barrel Shape: Circular

Barrel Diameter: 900.00 mm

Barrel Material: Concrete

Embedment: 0.00 mm

Barrel Manning's n: 0.0130

Culvert Type: Straight

Inlet Configuration: Square Edge with Headwall (Ke=0.5)

Inlet Depression: None

Site Data - WD07-TWIN 900 Barrel 1

Site Data Option: Culvert Invert Data

Inlet Station: 100.00 m

Inlet Elevation: 264.59 m

Outlet Station: 160.34 m

Outlet Elevation: 264.11 m

Number of Barrels: 1

Culvert Data: WD07-TWIN 900 Barrel 2

Culvert Data Summary - WD07-TWIN 900 Barrel 2

Barrel Shape: Circular

Barrel Diameter: 900.00 mm

Barrel Material: Concrete

Embedment: 0.00 mm

Barrel Manning's n: 0.0130

Culvert Type: Straight

Inlet Configuration: Square Edge with Headwall (Ke=0.5)

Inlet Depression: None

Site Data - WD07-TWIN 900 Barrel 2

Site Data Option: Culvert Invert Data

Inlet Station: 100.00 m

Inlet Elevation: 264.59 m

Outlet Station: 160.34 m

Outlet Elevation: 264.11 m

Number of Barrels: 1

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 1.34 cms

Maximum Flow: 4.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 3

Headwater Elevation (m)	Total Discharge (cms)	WD07- TWIN 900 Barrel 1 Discharge (cms)	WD07- TWIN 900 Barrel 2 Discharge (cms)	Roadway Discharge (cms)	Iterations
264.92	0.00	0.00	0.00	0.00	0
264.98	0.40	0.20	0.20	0.00	14
265.11	0.80	0.40	0.40	0.00	5
265.30	1.34	0.67	0.67	0.00	4
265.39	1.60	0.80	0.80	0.00	4
265.52	2.00	1.00	1.00	0.00	4
265.66	2.40	1.20	1.20	0.00	5
265.82	2.80	1.40	1.40	0.00	5

266.01	3.20	1.60	1.60	0.00	5
266.22	3.60	1.80	1.80	0.00	4
266.47	4.00	2.00	2.00	0.00	5
266.79	4.41	2.20	2.20	0.00	Overtopping

Culvert Data: Railway North

Culvert Data Summary - Railway North

Barrel Shape: Circular

Barrel Diameter: 1350.00 mm

Barrel Material: Concrete

Embedment: 0.00 mm

Barrel Manning's n: 0.0130

Culvert Type: Straight

Inlet Configuration: Square Edge with Headwall (Ke=0.5)

Inlet Depression: None

Site Data - Railway North

Site Data Option: Culvert Invert Data

Inlet Station: 100.00 m

Inlet Elevation: 264.87 m

Outlet Station: 120.85 m

Outlet Elevation: 264.71 m

Number of Barrels: 1

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 1.34 cms

Maximum Flow: 4.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Crossing 6

Headwater Elevation (m)	Total Discharge (cms)	Railway North Discharge (cms)	Roadway Discharge (cms)	Iterations
265.53	0.00	0.00	0.00	1
265.55	0.40	0.40	0.00	1
265.62	0.80	0.80	0.00	1
265.75	1.34	1.34	0.00	1
265.85	1.60	1.60	0.00	1
265.99	2.00	2.00	0.00	1
266.13	2.40	2.40	0.00	1
266.28	2.80	2.80	0.00	1
266.43	3.20	3.20	0.00	1
266.60	3.60	3.60	0.00	1
266.78	4.00	4.00	0.00	1
268.30	6.31	6.31	0.00	Overtopping

10-Year

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 1.68 cms

Maximum Flow: 4.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 3

Headwater Elevation (m)	Total Discharge (cms)	WD07-TWIN 900 Barrel 1 Discharge (cms)	WD07-TWIN 900 Barrel 2 Discharge (cms)	Roadway Discharge (cms)	Iterations
264.92	0.00	0.00	0.00	0.00	0
264.98	0.40	0.20	0.20	0.00	14
265.11	0.80	0.40	0.40	0.00	5
265.26	1.20	0.60	0.60	0.00	4
265.41	1.68	0.84	0.84	0.00	3
265.52	2.00	1.00	1.00	0.00	4
265.66	2.40	1.20	1.20	0.00	6
265.82	2.80	1.40	1.40	0.00	5
266.01	3.20	1.60	1.60	0.00	5
266.22	3.60	1.80	1.80	0.00	4
266.47	4.00	2.00	2.00	0.00	5
266.79	4.41	2.20	2.20	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 1.68 cms

Maximum Flow: 4.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Crossing 6

Headwater Elevation (m)	Total Discharge (cms)	Railway North Discharge (cms)	Roadway Discharge (cms)	Iterations
265.53	0.00	0.00	0.00	1
265.55	0.40	0.40	0.00	1
265.62	0.80	0.80	0.00	1
265.69	1.20	1.20	0.00	1
265.88	1.68	1.68	0.00	1
265.99	2.00	2.00	0.00	1
266.13	2.40	2.40	0.00	1
266.28	2.80	2.80	0.00	1
266.43	3.20	3.20	0.00	1
266.60	3.60	3.60	0.00	1
266.78	4.00	4.00	0.00	1
268.30	6.31	6.31	0.00	Overtopping

25-Year

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 2.05 cms

Maximum Flow: 4.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 3

Headwater Elevation (m)	Total Discharge (cms)	WD07-TWIN 900 Barrel 1 Discharge (cms)	WD07-TWIN 900 Barrel 2 Discharge (cms)	Roadway Discharge (cms)	Iterations
264.92	0.00	0.00	0.00	0.00	0
264.98	0.40	0.20	0.20	0.00	14
265.11	0.80	0.40	0.40	0.00	5

265.26	1.20	0.60	0.60	0.00	4
265.39	1.60	0.80	0.80	0.00	3
265.53	2.05	1.03	1.03	0.00	4
265.66	2.40	1.20	1.20	0.00	5
265.82	2.80	1.40	1.40	0.00	5
266.01	3.20	1.60	1.60	0.00	5
266.22	3.60	1.80	1.80	0.00	4
266.47	4.00	2.00	2.00	0.00	4
266.79	4.41	2.20	2.20	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 2.05 cms

Maximum Flow: 4.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Crossing 6

Headwater Elevation (m)	Total Discharge (cms)	Railway North Discharge (cms)	Roadway Discharge (cms)	Iterations
265.53	0.00	0.00	0.00	1
265.55	0.40	0.40	0.00	1
265.62	0.80	0.80	0.00	1
265.69	1.20	1.20	0.00	1
265.85	1.60	1.60	0.00	1
266.01	2.05	2.05	0.00	1
266.13	2.40	2.40	0.00	1
266.28	2.80	2.80	0.00	1
266.43	3.20	3.20	0.00	1
266.60	3.60	3.60	0.00	1
266.78	4.00	4.00	0.00	1
268.30	6.31	6.31	0.00	Overtopping

50-Year

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 2.35 cms

Maximum Flow: 4.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 3

Headwater Elevation (m)	Total Discharge (cms)	WD07-TWIN 900 Barrel 1 Discharge (cms)	WD07-TWIN 900 Barrel 2 Discharge (cms)	Roadway Discharge (cms)	Iterations
264.92	0.00	0.00	0.00	0.00	0
264.98	0.40	0.20	0.20	0.00	14
265.11	0.80	0.40	0.40	0.00	5
265.26	1.20	0.60	0.60	0.00	4
265.39	1.60	0.80	0.80	0.00	3
265.52	2.00	1.00	1.00	0.00	4
265.64	2.35	1.18	1.18	0.00	4
265.82	2.80	1.40	1.40	0.00	5
266.01	3.20	1.60	1.60	0.00	5
266.22	3.60	1.80	1.80	0.00	4
266.47	4.00	2.00	2.00	0.00	5
266.79	4.41	2.21	2.21	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 2.35 cms

Maximum Flow: 4.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Crossing 6

Headwater Elevation (m)	Total Discharge (cms)	Railway North Discharge (cms)	Roadway Discharge (cms)	Iterations
265.53	0.00	0.00	0.00	1
265.55	0.40	0.40	0.00	1
265.62	0.80	0.80	0.00	1
265.69	1.20	1.20	0.00	1
265.85	1.60	1.60	0.00	1
265.99	2.00	2.00	0.00	1
266.12	2.35	2.35	0.00	1
266.28	2.80	2.80	0.00	1
266.43	3.20	3.20	0.00	1
266.60	3.60	3.60	0.00	1
266.78	4.00	4.00	0.00	1
268.30	6.31	6.31	0.00	Overtopping

100-Year**Crossing Discharge Data**

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 2.86 cms

Maximum Flow: 4.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 3

Headwater Elevation (m)	Total Discharge (cms)	WD07-TWIN 900 Barrel 1 Discharge (cms)	WD07-TWIN 900 Barrel 2 Discharge (cms)	Roadway Discharge (cms)	Iterations
264.92	0.00	0.00	0.00	0.00	0
264.98	0.40	0.20	0.20	0.00	14
265.11	0.80	0.40	0.40	0.00	5
265.26	1.20	0.60	0.60	0.00	4
265.39	1.60	0.80	0.80	0.00	3
265.52	2.00	1.00	1.00	0.00	4
265.66	2.40	1.20	1.20	0.00	5
265.85	2.86	1.43	1.43	0.00	5
266.01	3.20	1.60	1.60	0.00	5
266.22	3.60	1.80	1.80	0.00	4
266.47	4.00	2.00	2.00	0.00	5
266.79	4.41	2.20	2.20	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 2.86 cms

Maximum Flow: 4.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Crossing 6

Headwater Elevation (m)	Total Discharge (cms)	Railway North Discharge (cms)	Roadway Discharge (cms)	Iterations
265.53	0.00	0.00	0.00	1
265.55	0.40	0.40	0.00	1
265.62	0.80	0.80	0.00	1
265.69	1.20	1.20	0.00	1
265.85	1.60	1.60	0.00	1
265.99	2.00	2.00	0.00	1

266.13	2.40	2.40	0.00	1
266.30	2.86	2.86	0.00	1
266.43	3.20	3.20	0.00	1
266.60	3.60	3.60	0.00	1
266.78	4.00	4.00	0.00	1
268.30	6.31	6.31	0.00	Overtopping

1.3x100 Year

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 3.72 cms

Maximum Flow: 4.00 cms

Table 1 - Summary of Culvert Flows at Crossing: Culvert Crossing 3

Headwater Elevation (m)	Total Discharge (cms)	WD07- TWIN 900 Barrel 1 Discharge (cms)	WD07- TWIN 900 Barrel 2 Discharge (cms)	Roadway Discharge (cms)	Iterations
264.92	0.00	0.00	0.00	0.00	0
264.98	0.40	0.20	0.20	0.00	14
265.11	0.80	0.40	0.40	0.00	5
265.26	1.20	0.60	0.60	0.00	4
265.39	1.60	0.80	0.80	0.00	3
265.52	2.00	1.00	1.00	0.00	4
265.66	2.40	1.20	1.20	0.00	5
265.82	2.80	1.40	1.40	0.00	5
266.01	3.20	1.60	1.60	0.00	5
266.30	3.72	1.86	1.86	0.00	4
266.47	4.00	2.00	2.00	0.00	5
266.79	4.41	2.20	2.20	0.00	Overtopping

Crossing Discharge Data

Discharge Selection Method: Specify Minimum, Design, and Maximum Flow

Minimum Flow: 0.00 cms

Design Flow: 3.72 cms

Maximum Flow: 4.00 cms

Table 2 - Summary of Culvert Flows at Crossing: Crossing 6

Headwater Elevation (m)	Total Discharge (cms)	Railway North Discharge (cms)	Roadway Discharge (cms)	Iterations
265.53	0.00	0.00	0.00	1
265.55	0.40	0.40	0.00	1
265.62	0.80	0.80	0.00	1
265.69	1.20	1.20	0.00	1
265.85	1.60	1.60	0.00	1
265.99	2.00	2.00	0.00	1
266.13	2.40	2.40	0.00	1
266.28	2.80	2.80	0.00	1
266.43	3.20	3.20	0.00	1
266.65	3.72	3.72	0.00	1
266.78	4.00	4.00	0.00	1
268.30	6.31	6.31	0.00	Overtopping

APPENDIX D2: HEC-RAS OUTPUT

HECRAS Output
East Don, Reach 18



EAST DON RIVER

3512.22

3432

3369.23

3324.56

3270.27

3238.80

3207.34

3169

3131.52

3068.55

3011.21

2911.6

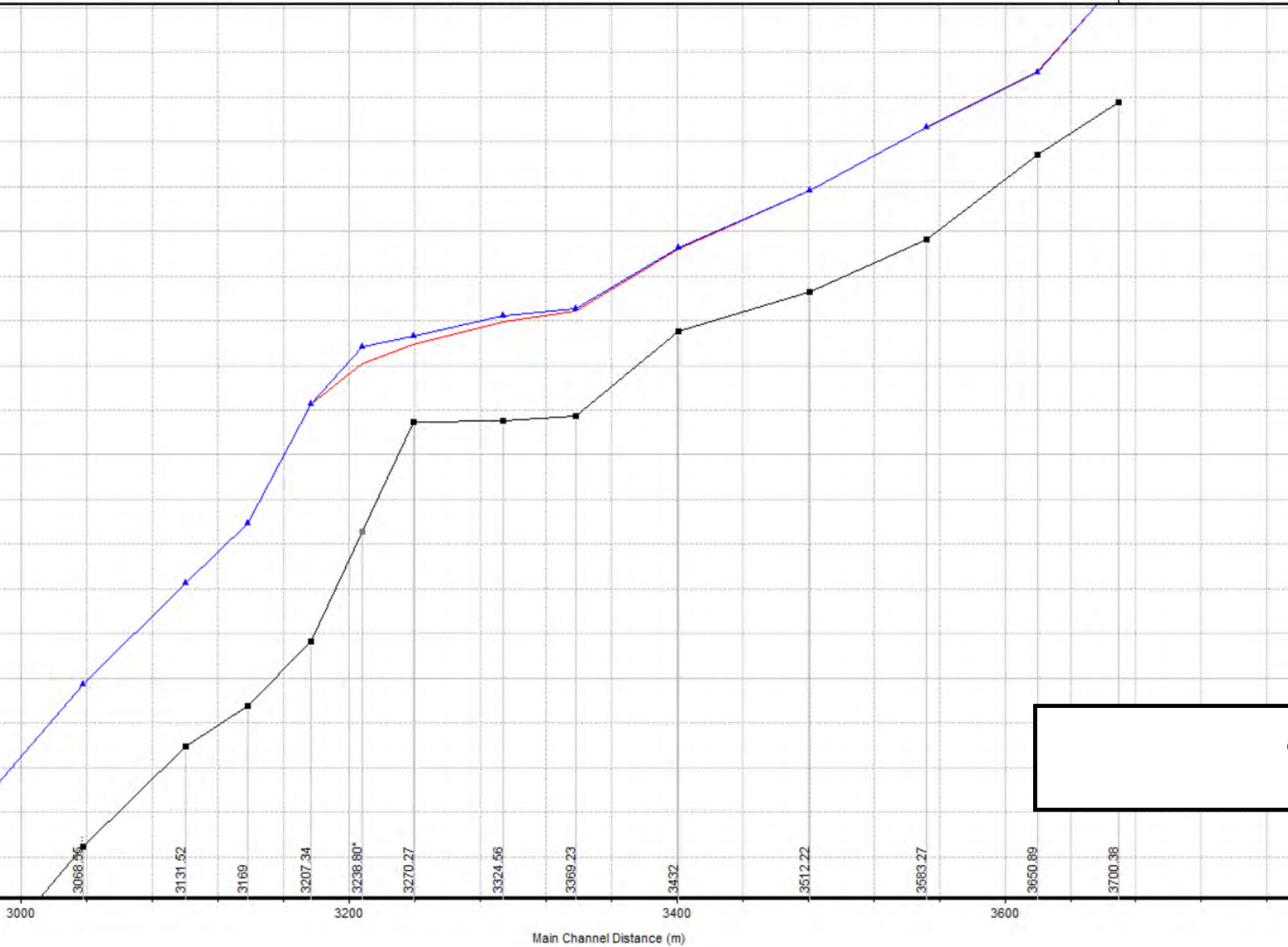
2797.98

2849.55

2724.11

TRCA HEC RAS Model

EastDon Reach18



HEC-RAS River: EastDon Reach: Reach18

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	3700.38	Regional	DonPhaselI_Final_Baseline	35.93	253.15	254.25	254.25	254.52	0.017278	1.77	17.88	32.46	0.63
Reach18	3700.38	Regional	DonPhaselI_Final_Proposed	35.93	253.15	254.25	254.25	254.52	0.017278	1.77	17.88	32.46	0.63
Reach18	3700.38	350 Year	DonPhaselI_Final_Baseline	3.63	253.15	253.68	253.68	253.85	0.044517	1.83	1.98	12.45	0.99
Reach18	3700.38	350 Year	DonPhaselI_Final_Proposed	3.63	253.15	253.68	253.68	253.85	0.044517	1.83	1.98	12.45	0.99
Reach18	3700.38	1.3*100 Year	DonPhaselI_Final_Baseline	0.84	253.15	253.56	253.41	253.58	0.005998	0.62	1.37	11.01	0.38
Reach18	3700.38	1.3*100 Year	DonPhaselI_Final_Proposed	0.84	253.15	253.56	253.41	253.58	0.005998	0.62	1.37	11.01	0.38
Reach18	3700.38	100 Year	DonPhaselI_Final_Baseline	0.65	253.15	253.51	253.38	253.53	0.005724	0.58	1.12	10.40	0.38
Reach18	3700.38	100 Year	DonPhaselI_Final_Proposed	0.65	253.15	253.51	253.38	253.53	0.005723	0.58	1.12	10.40	0.38
Reach18	3700.38	50 Year	DonPhaselI_Final_Baseline	0.52	253.15	253.48	253.35	253.49	0.005450	0.54	0.96	9.95	0.37
Reach18	3700.38	50 Year	DonPhaselI_Final_Proposed	0.52	253.15	253.48	253.35	253.49	0.005450	0.54	0.96	9.95	0.37
Reach18	3700.38	25 Year	DonPhaselI_Final_Baseline	0.44	253.15	253.45	253.34	253.47	0.005311	0.52	0.84	9.63	0.38
Reach18	3700.38	25 Year	DonPhaselI_Final_Proposed	0.44	253.15	253.45	253.34	253.47	0.005319	0.52	0.84	9.63	0.38
Reach18	3700.38	10 Year	DonPhaselI_Final_Baseline	0.38	253.15	253.43	253.32	253.45	0.005045	0.50	0.77	9.41	0.37
Reach18	3700.38	10 Year	DonPhaselI_Final_Proposed	0.38	253.15	253.43	253.32	253.45	0.005040	0.50	0.77	9.41	0.37
Reach18	3700.38	5 Year	DonPhaselI_Final_Baseline	0.34	253.15	253.42	253.31	253.43	0.004910	0.48	0.71	9.21	0.37
Reach18	3700.38	5 Year	DonPhaselI_Final_Proposed	0.34	253.15	253.42	253.31	253.43	0.004910	0.48	0.71	9.21	0.37
Reach18	3700.38	2 Year	DonPhaselI_Final_Baseline	0.27	253.15	253.39	253.30	253.40	0.004489	0.45	0.60	8.73	0.37
Reach18	3700.38	2 Year	DonPhaselI_Final_Proposed	0.27	253.15	253.39	253.30	253.40	0.004485	0.45	0.60	8.73	0.37
Reach18	3650.89	Regional	DonPhaselI_Final_Baseline	36.87	252.69	253.43	253.38	253.51	0.003343	0.67	31.39	52.51	0.30
Reach18	3650.89	Regional	DonPhaselI_Final_Proposed	36.87	252.69	253.43	253.38	253.51	0.003348	0.67	31.37	52.51	0.30
Reach18	3650.89	350 Year	DonPhaselI_Final_Baseline	3.70	252.69	253.27	253.23	253.36	0.019469	1.41	3.43	49.08	0.72
Reach18	3650.89	350 Year	DonPhaselI_Final_Proposed	3.70	252.69	253.27	253.23	253.36	0.019419	1.41	3.44	49.09	0.72
Reach18	3650.89	1.3*100 Year	DonPhaselI_Final_Baseline	0.84	252.69	253.02	252.96	253.07	0.022584	0.95	0.89	37.86	0.67
Reach18	3650.89	1.3*100 Year	DonPhaselI_Final_Proposed	0.84	252.69	253.02	252.96	253.07	0.022584	0.95	0.89	37.86	0.67
Reach18	3650.89	100 Year	DonPhaselI_Final_Baseline	0.65	252.69	252.98	252.93	253.02	0.023660	0.91	0.72	37.05	0.68
Reach18	3650.89	100 Year	DonPhaselI_Final_Proposed	0.65	252.69	252.98	252.93	253.02	0.023686	0.91	0.72	37.05	0.68
Reach18	3650.89	50 Year	DonPhaselI_Final_Baseline	0.52	252.69	252.94	252.90	252.98	0.026456	0.89	0.58	36.40	0.71
Reach18	3650.89	50 Year	DonPhaselI_Final_Proposed	0.52	252.69	252.94	252.90	252.98	0.026456	0.89	0.58	36.40	0.71
Reach18	3650.89	25 Year	DonPhaselI_Final_Baseline	0.43	252.69	252.91	252.88	252.95	0.028972	0.88	0.49	35.94	0.74
Reach18	3650.89	25 Year	DonPhaselI_Final_Proposed	0.43	252.69	252.92	252.88	252.95	0.028853	0.88	0.49	35.95	0.74
Reach18	3650.89	10 Year	DonPhaselI_Final_Baseline	0.38	252.69	252.90	252.87	252.94	0.031204	0.88	0.43	35.66	0.76
Reach18	3650.89	10 Year	DonPhaselI_Final_Proposed	0.38	252.69	252.90	252.87	252.94	0.031250	0.88	0.43	35.65	0.76
Reach18	3650.89	5 Year	DonPhaselI_Final_Baseline	0.34	252.69	252.88	252.86	252.92	0.033251	0.87	0.39	35.41	0.78
Reach18	3650.89	5 Year	DonPhaselI_Final_Proposed	0.34	252.69	252.88	252.86	252.92	0.033251	0.87	0.39	35.41	0.78
Reach18	3650.89	2 Year	DonPhaselI_Final_Baseline	0.29	252.69	252.87	252.85	252.90	0.034308	0.85	0.34	35.14	0.79
Reach18	3650.89	2 Year	DonPhaselI_Final_Proposed	0.29	252.69	252.87	252.85	252.90	0.034396	0.85	0.34	35.14	0.79
Reach18	3583.27	Regional	DonPhaselI_Final_Baseline	36.87	251.93	252.93	252.89	253.12	0.012873	3.15	32.42	64.76	1.03
Reach18	3583.27	Regional	DonPhaselI_Final_Proposed	36.87	251.93	252.93	252.89	253.12	0.012821	3.15	32.47	64.77	1.03
Reach18	3583.27	350 Year	DonPhaselI_Final_Baseline	3.70	251.93	252.33	252.31	252.40	0.010872	1.51	5.02	23.92	0.80
Reach18	3583.27	350 Year	DonPhaselI_Final_Proposed	3.70	251.93	252.33	252.31	252.40	0.010895	1.51	5.01	23.92	0.80
Reach18	3583.27	1.3*100 Year	DonPhaselI_Final_Baseline	0.84	251.93	252.17	252.13	252.20	0.008194	0.89	1.51	17.32	0.63
Reach18	3583.27	1.3*100 Year	DonPhaselI_Final_Proposed	0.84	251.93	252.17	252.13	252.20	0.008194	0.89	1.51	17.32	0.63
Reach18	3583.27	100 Year	DonPhaselI_Final_Baseline	0.65	251.93	252.14	252.10	252.17	0.007704	0.80	1.17	13.63	0.60
Reach18	3583.27	100 Year	DonPhaselI_Final_Proposed	0.65	251.93	252.14	252.10	252.17	0.007701	0.80	1.17	13.63	0.60
Reach18	3583.27	50 Year	DonPhaselI_Final_Baseline	0.52	251.93	252.13	252.08	252.15	0.007013	0.71	0.97	11.22	0.56
Reach18	3583.27	50 Year	DonPhaselI_Final_Proposed	0.52	251.93	252.13	252.08	252.15	0.007013	0.71	0.97	11.22	0.56
Reach18	3583.27	25 Year	DonPhaselI_Final_Baseline	0.43	251.93	252.12	252.07	252.14	0.006552	0.65	0.84	10.03	0.54

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	3583.27	25 Year	DonPhaseII_Final_Proposed	0.43	251.93	252.12	252.07	252.14	0.006564	0.65	0.84	10.02	0.54
Reach18	3583.27	10 Year	DonPhaseII_Final_Baseline	0.38	251.93	252.11	252.06	252.13	0.006239	0.62	0.76	9.17	0.52
Reach18	3583.27	10 Year	DonPhaseII_Final_Proposed	0.38	251.93	252.11	252.06	252.13	0.006233	0.61	0.76	9.18	0.52
Reach18	3583.27	5 Year	DonPhaseII_Final_Baseline	0.34	251.93	252.10	252.06	252.12	0.006004	0.58	0.70	8.22	0.51
Reach18	3583.27	5 Year	DonPhaseII_Final_Proposed	0.34	251.93	252.10	252.06	252.12	0.006004	0.58	0.70	8.22	0.51
Reach18	3583.27	2 Year	DonPhaseII_Final_Baseline	0.29	251.93	252.09	252.05	252.10	0.005867	0.55	0.62	7.37	0.49
Reach18	3583.27	2 Year	DonPhaseII_Final_Proposed	0.29	251.93	252.09	252.05	252.10	0.005861	0.55	0.62	7.38	0.49
Reach18	3512.22	Regional	DonPhaseII_Final_Baseline	36.87	251.46	252.36		252.44	0.007922	2.21	37.44	57.53	0.78
Reach18	3512.22	Regional	DonPhaseII_Final_Proposed	36.87	251.46	252.36		252.43	0.007983	2.21	37.35	57.51	0.79
Reach18	3512.22	350 Year	DonPhaseII_Final_Baseline	3.70	251.46	251.79		251.80	0.007093	0.91	7.56	41.82	0.60
Reach18	3512.22	350 Year	DonPhaseII_Final_Proposed	3.70	251.46	251.79		251.80	0.007076	0.91	7.57	41.83	0.60
Reach18	3512.22	1.3*100 Year	DonPhaseII_Final_Baseline	0.84	251.46	251.60		251.61	0.009159	0.56	2.01	17.28	0.59
Reach18	3512.22	1.3*100 Year	DonPhaseII_Final_Proposed	0.84	251.46	251.60		251.61	0.009159	0.56	2.01	17.28	0.59
Reach18	3512.22	100 Year	DonPhaseII_Final_Baseline	0.65	251.46	251.57		251.58	0.009848	0.50	1.60	15.39	0.59
Reach18	3512.22	100 Year	DonPhaseII_Final_Proposed	0.65	251.46	251.57		251.58	0.009843	0.50	1.60	15.39	0.59
Reach18	3512.22	50 Year	DonPhaseII_Final_Baseline	0.52	251.46	251.55		251.56	0.011000	0.47	1.30	14.74	0.60
Reach18	3512.22	50 Year	DonPhaseII_Final_Proposed	0.52	251.46	251.55		251.56	0.011000	0.47	1.30	14.74	0.60
Reach18	3512.22	25 Year	DonPhaseII_Final_Baseline	0.43	251.46	251.54		251.55	0.011949	0.43	1.09	14.17	0.61
Reach18	3512.22	25 Year	DonPhaseII_Final_Proposed	0.43	251.46	251.54		251.55	0.011993	0.43	1.09	14.17	0.61
Reach18	3512.22	10 Year	DonPhaseII_Final_Baseline	0.38	251.46	251.53		251.54	0.012963	0.40	0.96	13.65	0.62
Reach18	3512.22	10 Year	DonPhaseII_Final_Proposed	0.38	251.46	251.53		251.54	0.013014	0.40	0.95	13.65	0.62
Reach18	3512.22	5 Year	DonPhaseII_Final_Baseline	0.34	251.46	251.52		251.53	0.013704	0.38	0.85	13.22	0.62
Reach18	3512.22	5 Year	DonPhaseII_Final_Proposed	0.34	251.46	251.52		251.53	0.013704	0.38	0.85	13.22	0.62
Reach18	3512.22	2 Year	DonPhaseII_Final_Baseline	0.29	251.46	251.51		251.52	0.014178	0.35	0.73	12.66	0.61
Reach18	3512.22	2 Year	DonPhaseII_Final_Proposed	0.29	251.46	251.51		251.52	0.014167	0.35	0.73	12.66	0.61
Reach18	3432	Regional	DonPhaseII_Final_Baseline	36.87	251.10	251.84		251.90	0.007430	1.93	40.20	57.54	0.74
Reach18	3432	Regional	DonPhaseII_Final_Proposed	36.87	251.10	251.86		251.91	0.007036	1.90	40.93	57.79	0.72
Reach18	3432	350 Year	DonPhaseII_Final_Baseline	3.70	251.10	251.20		251.21	0.010514	0.44	8.24	42.52	0.58
Reach18	3432	350 Year	DonPhaseII_Final_Proposed	3.70	251.10	251.20		251.21	0.010564	0.44	8.23	42.50	0.58
Reach18	3432	1.3*100 Year	DonPhaseII_Final_Baseline	0.84	251.10	251.07		251.07	0.006698		3.29	29.31	0.00
Reach18	3432	1.3*100 Year	DonPhaseII_Final_Proposed	0.84	251.10	251.07		251.07	0.006698		3.29	29.31	0.00
Reach18	3432	100 Year	DonPhaseII_Final_Baseline	0.65	251.10	251.05		251.06	0.006163		2.80	27.81	0.00
Reach18	3432	100 Year	DonPhaseII_Final_Proposed	0.65	251.10	251.05		251.06	0.006166		2.80	27.81	0.00
Reach18	3432	50 Year	DonPhaseII_Final_Baseline	0.52	251.10	251.04		251.04	0.005507		2.48	26.74	0.00
Reach18	3432	50 Year	DonPhaseII_Final_Proposed	0.52	251.10	251.04		251.04	0.005507		2.48	26.74	0.00
Reach18	3432	25 Year	DonPhaseII_Final_Baseline	0.43	251.10	251.03		251.03	0.005211		2.18	24.37	0.00
Reach18	3432	25 Year	DonPhaseII_Final_Proposed	0.43	251.10	251.03		251.03	0.005193		2.18	24.38	0.00
Reach18	3432	10 Year	DonPhaseII_Final_Baseline	0.38	251.10	251.02		251.02	0.004935		2.04	23.58	0.00
Reach18	3432	10 Year	DonPhaseII_Final_Proposed	0.38	251.10	251.02		251.02	0.004947		2.03	23.57	0.00
Reach18	3432	5 Year	DonPhaseII_Final_Baseline	0.34	251.10	251.02		251.02	0.004747		1.91	22.60	0.00
Reach18	3432	5 Year	DonPhaseII_Final_Proposed	0.34	251.10	251.02		251.02	0.004747		1.91	22.60	0.00
Reach18	3432	2 Year	DonPhaseII_Final_Baseline	0.29	251.10	251.01		251.01	0.004612		1.72	20.86	0.00
Reach18	3432	2 Year	DonPhaseII_Final_Proposed	0.29	251.10	251.01		251.01	0.004618		1.72	20.85	0.00
Reach18	3369.23	Regional	DonPhaseII_Final_Baseline	36.87	250.35	251.28		251.39	0.008850	2.51	34.21	52.31	0.84
Reach18	3369.23	Regional	DonPhaseII_Final_Proposed	36.87	250.35	251.31		251.42	0.008633	2.52	32.47	42.02	0.84
Reach18	3369.23	350 Year	DonPhaseII_Final_Baseline	3.70	250.35	250.70		250.73	0.006061	1.04	8.17	37.65	0.59

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	3369.23	350 Year	DonPhaselI_Final_Proposed	3.70	250.35	250.70		250.73	0.006029	1.04	8.19	37.48	0.59
Reach18	3369.23	1.3*100 Year	DonPhaselI_Final_Baseline	0.84	250.35	250.53		250.54	0.010575	0.81	2.29	27.44	0.68
Reach18	3369.23	1.3*100 Year	DonPhaselI_Final_Proposed	0.84	250.35	250.53		250.54	0.010543	0.81	2.29	27.44	0.68
Reach18	3369.23	100 Year	DonPhaselI_Final_Baseline	0.65	250.35	250.51		250.53	0.011714	0.77	1.77	25.93	0.70
Reach18	3369.23	100 Year	DonPhaselI_Final_Proposed	0.65	250.35	250.51		250.53	0.011746	0.77	1.77	25.92	0.70
Reach18	3369.23	50 Year	DonPhaselI_Final_Baseline	0.52	250.35	250.49		250.51	0.013956	0.77	1.38	24.33	0.75
Reach18	3369.23	50 Year	DonPhaselI_Final_Proposed	0.52	250.35	250.49		250.51	0.013934	0.77	1.38	24.33	0.74
Reach18	3369.23	25 Year	DonPhaselI_Final_Baseline	0.43	250.35	250.48	250.47	250.50	0.014932	0.75	1.13	22.89	0.76
Reach18	3369.23	25 Year	DonPhaselI_Final_Proposed	0.43	250.35	250.48	250.47	250.50	0.015020	0.75	1.12	22.86	0.76
Reach18	3369.23	10 Year	DonPhaselI_Final_Baseline	0.38	250.35	250.47	250.47	250.49	0.016359	0.74	0.97	21.21	0.78
Reach18	3369.23	10 Year	DonPhaselI_Final_Proposed	0.38	250.35	250.47	250.47	250.49	0.016389	0.74	0.97	21.20	0.78
Reach18	3369.23	5 Year	DonPhaselI_Final_Baseline	0.34	250.35	250.47	250.46	250.49	0.017460	0.73	0.85	19.88	0.80
Reach18	3369.23	5 Year	DonPhaselI_Final_Proposed	0.34	250.35	250.47	250.46	250.49	0.017476	0.73	0.85	19.87	0.80
Reach18	3369.23	2 Year	DonPhaselI_Final_Baseline	0.29	250.35	250.46	250.46	250.48	0.018694	0.72	0.71	18.21	0.82
Reach18	3369.23	2 Year	DonPhaselI_Final_Proposed	0.29	250.35	250.46	250.46	250.48	0.018655	0.72	0.72	18.21	0.82
Reach18	3324.56	Regional	DonPhaselI_Final_Baseline	36.87	250.30	251.19	250.79	251.23	0.001610	0.99	45.57	66.83	0.34
Reach18	3324.56	Regional	DonPhaselI_Final_Proposed	36.87	250.30	251.24	250.79	251.28	0.001328	0.93	47.01	60.87	0.32
Reach18	3324.56	350 Year	DonPhaselI_Final_Baseline	3.70	250.30	250.66	250.45	250.67	0.000526	0.29	13.06	51.10	0.17
Reach18	3324.56	350 Year	DonPhaselI_Final_Proposed	3.70	250.30	250.66	250.45	250.67	0.000522	0.29	13.09	51.15	0.17
Reach18	3324.56	1.3*100 Year	DonPhaselI_Final_Baseline	0.84	250.30	250.48	250.38	250.49	0.000436	0.15	5.52	41.19	0.13
Reach18	3324.56	1.3*100 Year	DonPhaselI_Final_Proposed	0.84	250.30	250.48	250.38	250.49	0.000448	0.16	5.47	41.17	0.14
Reach18	3324.56	100 Year	DonPhaselI_Final_Baseline	0.65	250.30	250.47	250.38	250.47	0.000423	0.14	4.74	40.93	0.13
Reach18	3324.56	100 Year	DonPhaselI_Final_Proposed	0.65	250.30	250.47	250.38	250.47	0.000419	0.14	4.75	40.94	0.13
Reach18	3324.56	50 Year	DonPhaselI_Final_Baseline	0.52	250.30	250.45	250.37	250.46	0.000377	0.12	4.28	40.78	0.12
Reach18	3324.56	50 Year	DonPhaselI_Final_Proposed	0.52	250.30	250.45	250.37	250.46	0.000378	0.12	4.28	40.78	0.12
Reach18	3324.56	25 Year	DonPhaselI_Final_Baseline	0.43	250.30	250.44	250.37	250.44	0.000385	0.11	3.79	40.62	0.12
Reach18	3324.56	25 Year	DonPhaselI_Final_Proposed	0.43	250.30	250.44	250.37	250.44	0.000383	0.11	3.80	40.62	0.12
Reach18	3324.56	10 Year	DonPhaselI_Final_Baseline	0.38	250.30	250.44	250.36	250.44	0.000366	0.11	3.57	40.54	0.11
Reach18	3324.56	10 Year	DonPhaselI_Final_Proposed	0.38	250.30	250.44	250.36	250.44	0.000365	0.11	3.57	40.55	0.11
Reach18	3324.56	5 Year	DonPhaselI_Final_Baseline	0.34	250.30	250.43	250.36	250.43	0.000361	0.10	3.35	40.47	0.11
Reach18	3324.56	5 Year	DonPhaselI_Final_Proposed	0.34	250.30	250.43	250.36	250.43	0.000361	0.10	3.35	40.47	0.11
Reach18	3324.56	2 Year	DonPhaselI_Final_Baseline	0.29	250.30	250.42	250.36	250.42	0.000361	0.10	3.04	40.37	0.11
Reach18	3324.56	2 Year	DonPhaselI_Final_Proposed	0.29	250.30	250.42	250.36	250.42	0.000362	0.10	3.04	40.37	0.11
Reach18	3270.27	Regional	DonPhaselI_Final_Baseline	41.74	250.29	250.99	250.79	251.08	0.005722	1.64	41.20	69.25	0.64
Reach18	3270.27	Regional	DonPhaselI_Final_Proposed	41.74	250.29	251.06	250.82	251.15	0.004802	1.61	39.18	56.75	0.60
Reach18	3270.27	350 Year	DonPhaselI_Final_Baseline	4.23	250.29	250.48	250.48	250.56	0.022514	1.26	3.36	53.72	1.01
Reach18	3270.27	350 Year	DonPhaselI_Final_Proposed	4.23	250.29	250.48	250.48	250.56	0.022514	1.26	3.36	45.01	1.01
Reach18	3270.27	1.3*100 Year	DonPhaselI_Final_Baseline	0.88	250.29	250.37	250.37	250.40	0.030092	0.75	1.17	35.35	0.99
Reach18	3270.27	1.3*100 Year	DonPhaselI_Final_Proposed	0.88	250.29	250.37	250.37	250.40	0.030092	0.75	1.17	33.37	0.99
Reach18	3270.27	100 Year	DonPhaselI_Final_Baseline	0.68	250.29	250.36	250.36	250.39	0.034199	0.71	0.96	33.86	1.02
Reach18	3270.27	100 Year	DonPhaselI_Final_Proposed	0.68	250.29	250.36	250.36	250.39	0.034199	0.71	0.96	32.49	1.02
Reach18	3270.27	50 Year	DonPhaselI_Final_Baseline	0.56	250.29	250.36	250.36	250.38	0.032862	0.65	0.86	33.31	0.99
Reach18	3270.27	50 Year	DonPhaselI_Final_Proposed	0.56	250.29	250.36	250.36	250.38	0.033769	0.66	0.85	32.21	1.00
Reach18	3270.27	25 Year	DonPhaselI_Final_Baseline	0.46	250.29	250.35	250.35	250.37	0.031357	0.59	0.77	32.76	0.95
Reach18	3270.27	25 Year	DonPhaselI_Final_Proposed	0.46	250.29	250.35	250.35	250.37	0.032122	0.60	0.77	31.93	0.96
Reach18	3270.27	10 Year	DonPhaselI_Final_Baseline	0.41	250.29	250.35	250.35	250.37	0.030024	0.56	0.73	32.49	0.92
Reach18	3270.27	10 Year	DonPhaselI_Final_Proposed	0.41	250.29	250.35	250.35	250.37	0.030897	0.57	0.72	31.78	0.93

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	3270.27	5 Year	DonPhaseII_Final_Baseline	0.37	250.29	250.35	250.35	250.36	0.028478	0.53	0.70	32.28	0.89
Reach18	3270.27	5 Year	DonPhaseII_Final_Proposed	0.37	250.29	250.35	250.35	250.36	0.029394	0.54	0.69	31.67	0.90
Reach18	3270.27	2 Year	DonPhaseII_Final_Baseline	0.31	250.29	250.35	250.34	250.36	0.027675	0.49	0.63	31.89	0.86
Reach18	3270.27	2 Year	DonPhaseII_Final_Proposed	0.31	250.29	250.35	250.34	250.36	0.028134	0.49	0.63	31.49	0.87
Reach18	3238.80*	Regional	DonPhaseII_Final_Baseline	41.74	249.31	250.82		250.95	0.003688	1.84	37.56	52.39	0.50
Reach18	3238.80*	Regional	DonPhaseII_Final_Proposed	41.74	249.31	250.96		251.02	0.003847	1.18	42.71	43.00	0.34
Reach18	3238.80*	350 Year	DonPhaseII_Final_Baseline	4.23	249.31	249.76		249.81	0.006497	0.97	4.36	12.29	0.52
Reach18	3238.80*	350 Year	DonPhaseII_Final_Proposed	4.23	249.31	249.79		249.83	0.005504	0.90	4.70	12.45	0.47
Reach18	3238.80*	1.3*100 Year	DonPhaseII_Final_Baseline	0.88	249.31	249.48		249.51	0.017681	0.78	1.14	9.32	0.71
Reach18	3238.80*	1.3*100 Year	DonPhaseII_Final_Proposed	0.88	249.31	249.48		249.51	0.016605	0.75	1.17	9.41	0.68
Reach18	3238.80*	100 Year	DonPhaseII_Final_Baseline	0.68	249.31	249.45	249.43	249.48	0.024176	0.79	0.86	8.67	0.80
Reach18	3238.80*	100 Year	DonPhaseII_Final_Proposed	0.68	249.31	249.45	249.43	249.48	0.023179	0.77	0.89	8.73	0.77
Reach18	3238.80*	50 Year	DonPhaseII_Final_Baseline	0.56	249.31	249.43	249.42	249.46	0.026204	0.76	0.74	8.38	0.81
Reach18	3238.80*	50 Year	DonPhaseII_Final_Proposed	0.56	249.31	249.43	249.42	249.46	0.025323	0.74	0.76	8.43	0.79
Reach18	3238.80*	25 Year	DonPhaseII_Final_Baseline	0.46	249.31	249.42	249.41	249.45	0.027728	0.72	0.64	8.07	0.82
Reach18	3238.80*	25 Year	DonPhaseII_Final_Proposed	0.46	249.31	249.42	249.41	249.45	0.026763	0.70	0.66	8.12	0.79
Reach18	3238.80*	10 Year	DonPhaseII_Final_Baseline	0.41	249.31	249.41	249.40	249.44	0.028862	0.70	0.58	7.88	0.83
Reach18	3238.80*	10 Year	DonPhaseII_Final_Proposed	0.41	249.31	249.42	249.40	249.44	0.028054	0.69	0.60	7.93	0.80
Reach18	3238.80*	5 Year	DonPhaseII_Final_Baseline	0.37	249.31	249.41	249.40	249.43	0.030836	0.69	0.53	7.70	0.84
Reach18	3238.80*	5 Year	DonPhaseII_Final_Proposed	0.37	249.31	249.41	249.40	249.43	0.029750	0.67	0.55	7.75	0.81
Reach18	3238.80*	2 Year	DonPhaseII_Final_Baseline	0.31	249.31	249.40	249.39	249.42	0.032269	0.66	0.47	7.42	0.85
Reach18	3238.80*	2 Year	DonPhaseII_Final_Proposed	0.31	249.31	249.40	249.39	249.42	0.031437	0.65	0.48	7.48	0.82
Reach18	3207.34	Regional	DonPhaseII_Final_Baseline	41.74	248.33	250.45	250.45	250.79	0.008144	3.67	31.40	42.75	0.86
Reach18	3207.34	Regional	DonPhaseII_Final_Proposed	41.74	248.33	250.45	250.45	250.79	0.008144	3.67	31.40	42.75	0.86
Reach18	3207.34	350 Year	DonPhaseII_Final_Baseline	4.23	248.33	249.20	249.20	249.49	0.015145	2.39	1.93	4.04	0.97
Reach18	3207.34	350 Year	DonPhaseII_Final_Proposed	4.23	248.33	249.20	249.20	249.49	0.015145	2.39	1.93	4.04	0.97
Reach18	3207.34	1.3*100 Year	DonPhaseII_Final_Baseline	0.88	248.33	248.76	248.76	248.89	0.021634	1.58	0.56	2.23	1.01
Reach18	3207.34	1.3*100 Year	DonPhaseII_Final_Proposed	0.88	248.33	248.76	248.76	248.89	0.021634	1.58	0.56	2.23	1.01
Reach18	3207.34	100 Year	DonPhaseII_Final_Baseline	0.68	248.33	248.73	248.71	248.83	0.017617	1.37	0.50	2.13	0.90
Reach18	3207.34	100 Year	DonPhaseII_Final_Proposed	0.68	248.33	248.73	248.71	248.83	0.017617	1.37	0.50	2.13	0.90
Reach18	3207.34	50 Year	DonPhaseII_Final_Baseline	0.56	248.33	248.70	248.68	248.78	0.017615	1.29	0.43	2.01	0.89
Reach18	3207.34	50 Year	DonPhaseII_Final_Proposed	0.56	248.33	248.70	248.68	248.78	0.017615	1.29	0.43	2.01	0.89
Reach18	3207.34	25 Year	DonPhaseII_Final_Baseline	0.46	248.33	248.67	248.65	248.75	0.017990	1.23	0.37	1.90	0.89
Reach18	3207.34	25 Year	DonPhaseII_Final_Proposed	0.46	248.33	248.67	248.65	248.75	0.017990	1.23	0.37	1.90	0.89
Reach18	3207.34	10 Year	DonPhaseII_Final_Baseline	0.41	248.33	248.65	248.63	248.73	0.017983	1.19	0.34	1.84	0.88
Reach18	3207.34	10 Year	DonPhaseII_Final_Proposed	0.41	248.33	248.65	248.63	248.73	0.017983	1.19	0.34	1.84	0.88
Reach18	3207.34	5 Year	DonPhaseII_Final_Baseline	0.37	248.33	248.64	248.62	248.71	0.017634	1.15	0.32	1.80	0.87
Reach18	3207.34	5 Year	DonPhaseII_Final_Proposed	0.37	248.33	248.64	248.62	248.71	0.017634	1.15	0.32	1.80	0.87
Reach18	3207.34	2 Year	DonPhaseII_Final_Baseline	0.31	248.33	248.62	248.60	248.68	0.017856	1.10	0.28	1.71	0.86
Reach18	3207.34	2 Year	DonPhaseII_Final_Proposed	0.31	248.33	248.62	248.60	248.68	0.017856	1.10	0.28	1.71	0.86
Reach18	3169	Regional	DonPhaseII_Final_Baseline	41.74	247.75	249.39	249.34	249.90	0.013191	4.30	20.04	18.91	1.11
Reach18	3169	Regional	DonPhaseII_Final_Proposed	41.74	247.75	249.39	249.34	249.90	0.013192	4.30	20.04	18.91	1.11
Reach18	3169	350 Year	DonPhaseII_Final_Baseline	4.23	247.75	248.34	248.33	248.48	0.013323	1.98	3.80	12.45	0.92
Reach18	3169	350 Year	DonPhaseII_Final_Proposed	4.23	247.75	248.34	248.33	248.48	0.013323	1.98	3.80	12.45	0.92
Reach18	3169	1.3*100 Year	DonPhaseII_Final_Baseline	0.88	247.75	248.09	248.09	248.17	0.013471	1.22	0.95	10.32	0.82
Reach18	3169	1.3*100 Year	DonPhaseII_Final_Proposed	0.88	247.75	248.09	248.09	248.17	0.013471	1.22	0.95	10.32	0.82

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	3169	100 Year	DonPhaseII_Final_Baseline	0.68	247.75	248.05	248.04	248.12	0.018568	1.22	0.59	4.61	0.93
Reach18	3169	100 Year	DonPhaseII_Final_Proposed	0.68	247.75	248.05	248.04	248.12	0.018568	1.22	0.59	4.61	0.93
Reach18	3169	50 Year	DonPhaseII_Final_Baseline	0.56	247.75	248.03	248.02	248.09	0.017905	1.12	0.51	3.82	0.89
Reach18	3169	50 Year	DonPhaseII_Final_Proposed	0.56	247.75	248.03	248.02	248.09	0.017905	1.12	0.51	3.82	0.89
Reach18	3169	25 Year	DonPhaseII_Final_Baseline	0.46	247.75	248.02	248.00	248.07	0.016899	1.02	0.46	3.53	0.85
Reach18	3169	25 Year	DonPhaseII_Final_Proposed	0.46	247.75	248.02	248.00	248.07	0.016899	1.02	0.46	3.53	0.85
Reach18	3169	10 Year	DonPhaseII_Final_Baseline	0.41	247.75	248.01	247.99	248.05	0.016392	0.96	0.43	3.38	0.83
Reach18	3169	10 Year	DonPhaseII_Final_Proposed	0.41	247.75	248.01	247.99	248.05	0.016392	0.96	0.43	3.38	0.83
Reach18	3169	5 Year	DonPhaseII_Final_Baseline	0.37	247.75	248.00	247.98	248.04	0.016490	0.94	0.40	3.21	0.83
Reach18	3169	5 Year	DonPhaseII_Final_Proposed	0.37	247.75	248.00	247.98	248.04	0.016490	0.94	0.40	3.21	0.83
Reach18	3169	2 Year	DonPhaseII_Final_Baseline	0.31	247.75	247.98	247.96	248.02	0.015956	0.88	0.35	3.01	0.80
Reach18	3169	2 Year	DonPhaseII_Final_Proposed	0.31	247.75	247.98	247.96	248.02	0.015956	0.88	0.35	3.01	0.80
Reach18	3131.52	Regional	DonPhaseII_Final_Baseline	41.74	247.39	248.85	248.85	249.41	0.014520	4.28	18.58	18.32	1.16
Reach18	3131.52	Regional	DonPhaseII_Final_Proposed	41.74	247.39	248.85	248.85	249.41	0.014520	4.28	18.58	18.32	1.16
Reach18	3131.52	350 Year	DonPhaseII_Final_Baseline	4.23	247.39	247.90	247.87	248.02	0.012185	1.82	3.78	12.44	0.88
Reach18	3131.52	350 Year	DonPhaseII_Final_Proposed	4.23	247.39	247.90	247.87	248.02	0.012185	1.82	3.78	12.44	0.88
Reach18	3131.52	1.3*100 Year	DonPhaseII_Final_Baseline	0.88	247.39	247.67		247.71	0.007940	0.91	1.32	8.86	0.63
Reach18	3131.52	1.3*100 Year	DonPhaseII_Final_Proposed	0.88	247.39	247.67		247.71	0.007940	0.91	1.32	8.86	0.63
Reach18	3131.52	100 Year	DonPhaseII_Final_Baseline	0.68	247.39	247.64		247.67	0.008117	0.84	1.07	8.18	0.62
Reach18	3131.52	100 Year	DonPhaseII_Final_Proposed	0.68	247.39	247.64		247.67	0.008117	0.84	1.07	8.18	0.62
Reach18	3131.52	50 Year	DonPhaseII_Final_Baseline	0.56	247.39	247.62		247.65	0.008221	0.78	0.91	7.76	0.61
Reach18	3131.52	50 Year	DonPhaseII_Final_Proposed	0.56	247.39	247.62		247.65	0.008221	0.78	0.91	7.76	0.61
Reach18	3131.52	25 Year	DonPhaseII_Final_Baseline	0.46	247.39	247.61		247.63	0.008356	0.73	0.78	7.37	0.61
Reach18	3131.52	25 Year	DonPhaseII_Final_Proposed	0.46	247.39	247.61		247.63	0.008356	0.73	0.78	7.37	0.61
Reach18	3131.52	10 Year	DonPhaseII_Final_Baseline	0.41	247.39	247.60		247.62	0.008393	0.70	0.71	7.17	0.60
Reach18	3131.52	10 Year	DonPhaseII_Final_Proposed	0.41	247.39	247.60		247.62	0.008393	0.70	0.71	7.17	0.60
Reach18	3131.52	5 Year	DonPhaseII_Final_Baseline	0.37	247.39	247.59	247.55	247.61	0.008392	0.68	0.66	6.99	0.60
Reach18	3131.52	5 Year	DonPhaseII_Final_Proposed	0.37	247.39	247.59	247.55	247.61	0.008392	0.68	0.66	6.99	0.60
Reach18	3131.52	2 Year	DonPhaseII_Final_Baseline	0.31	247.39	247.58		247.60	0.008438	0.64	0.57	6.61	0.59
Reach18	3131.52	2 Year	DonPhaseII_Final_Proposed	0.31	247.39	247.58		247.60	0.008438	0.64	0.57	6.61	0.59
Reach18	3068.55	Regional	DonPhaseII_Final_Baseline	41.74	246.49	247.94	247.94	248.23	0.012093	3.53	29.61	44.63	1.01
Reach18	3068.55	Regional	DonPhaseII_Final_Proposed	41.74	246.49	247.94	247.94	248.23	0.012093	3.53	29.61	44.63	1.01
Reach18	3068.55	350 Year	DonPhaseII_Final_Baseline	4.23	246.49	247.25	247.25	247.39	0.008572	1.74	3.89	23.12	0.74
Reach18	3068.55	350 Year	DonPhaseII_Final_Proposed	4.23	246.49	247.25	247.25	247.39	0.008572	1.74	3.89	23.12	0.74
Reach18	3068.55	1.3*100 Year	DonPhaseII_Final_Baseline	0.88	246.49	246.82	246.82	246.93	0.021402	1.48	0.60	2.69	1.01
Reach18	3068.55	1.3*100 Year	DonPhaseII_Final_Proposed	0.88	246.49	246.82	246.82	246.93	0.021402	1.48	0.60	2.69	1.01
Reach18	3068.55	100 Year	DonPhaseII_Final_Baseline	0.68	246.49	246.77	246.77	246.87	0.022230	1.41	0.48	2.45	1.01
Reach18	3068.55	100 Year	DonPhaseII_Final_Proposed	0.68	246.49	246.77	246.77	246.87	0.022230	1.41	0.48	2.45	1.01
Reach18	3068.55	50 Year	DonPhaseII_Final_Baseline	0.56	246.49	246.75	246.75	246.84	0.022740	1.34	0.42	2.30	1.01
Reach18	3068.55	50 Year	DonPhaseII_Final_Proposed	0.56	246.49	246.75	246.75	246.84	0.022740	1.34	0.42	2.30	1.01
Reach18	3068.55	25 Year	DonPhaseII_Final_Baseline	0.46	246.49	246.72	246.72	246.80	0.023330	1.28	0.36	2.16	1.01
Reach18	3068.55	25 Year	DonPhaseII_Final_Proposed	0.46	246.49	246.72	246.72	246.80	0.023330	1.28	0.36	2.16	1.01
Reach18	3068.55	10 Year	DonPhaseII_Final_Baseline	0.41	246.49	246.70	246.70	246.78	0.023673	1.25	0.33	2.09	1.01
Reach18	3068.55	10 Year	DonPhaseII_Final_Proposed	0.41	246.49	246.70	246.70	246.78	0.023673	1.25	0.33	2.09	1.01
Reach18	3068.55	5 Year	DonPhaseII_Final_Baseline	0.37	246.49	246.69	246.69	246.77	0.024131	1.22	0.30	2.02	1.01
Reach18	3068.55	5 Year	DonPhaseII_Final_Proposed	0.37	246.49	246.69	246.69	246.77	0.024131	1.22	0.30	2.02	1.01
Reach18	3068.55	2 Year	DonPhaseII_Final_Baseline	0.31	246.49	246.67	246.67	246.74	0.024826	1.17	0.26	1.92	1.01

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	3068.55	2 Year	DonPhaselI_Final_Proposed	0.31	246.49	246.67	246.67	246.74	0.024826	1.17	0.26	1.92	1.01
Reach18	3011.21	Regional	DonPhaselI_Final_Baseline	41.74	245.49	246.97	246.97	247.21	0.016064	3.13	29.49	53.03	0.96
Reach18	3011.21	Regional	DonPhaselI_Final_Proposed	41.74	245.49	246.97	246.97	247.21	0.016064	3.13	29.49	53.03	0.96
Reach18	3011.21	350 Year	DonPhaselI_Final_Baseline	4.23	245.49	246.40	246.28	246.52	0.010203	1.53	3.07	17.89	0.68
Reach18	3011.21	350 Year	DonPhaselI_Final_Proposed	4.23	245.49	246.40	246.28	246.52	0.010203	1.53	3.07	17.89	0.68
Reach18	3011.21	1.3*100 Year	DonPhaselI_Final_Baseline	0.88	245.49	245.99	245.92	246.05	0.008724	1.02	0.87	3.50	0.66
Reach18	3011.21	1.3*100 Year	DonPhaselI_Final_Proposed	0.88	245.49	245.99	245.92	246.05	0.008724	1.02	0.87	3.50	0.66
Reach18	3011.21	100 Year	DonPhaselI_Final_Baseline	0.68	245.49	245.95	245.88	246.00	0.008372	0.94	0.73	3.24	0.63
Reach18	3011.21	100 Year	DonPhaselI_Final_Proposed	0.68	245.49	245.95	245.88	246.00	0.008372	0.94	0.73	3.24	0.63
Reach18	3011.21	50 Year	DonPhaselI_Final_Baseline	0.56	245.49	245.92	245.85	245.96	0.008221	0.88	0.63	3.05	0.62
Reach18	3011.21	50 Year	DonPhaselI_Final_Proposed	0.56	245.49	245.92	245.85	245.96	0.008221	0.88	0.63	3.05	0.62
Reach18	3011.21	25 Year	DonPhaselI_Final_Baseline	0.46	245.49	245.89	245.82	245.93	0.008125	0.84	0.55	2.85	0.61
Reach18	3011.21	25 Year	DonPhaselI_Final_Proposed	0.46	245.49	245.89	245.82	245.93	0.008125	0.84	0.55	2.85	0.61
Reach18	3011.21	10 Year	DonPhaselI_Final_Baseline	0.41	245.49	245.88	245.81	245.91	0.008018	0.81	0.51	2.74	0.60
Reach18	3011.21	10 Year	DonPhaselI_Final_Proposed	0.41	245.49	245.88	245.81	245.91	0.008018	0.81	0.51	2.74	0.60
Reach18	3011.21	5 Year	DonPhaselI_Final_Baseline	0.37	245.49	245.86	245.79	245.90	0.008030	0.79	0.47	2.63	0.60
Reach18	3011.21	5 Year	DonPhaselI_Final_Proposed	0.37	245.49	245.86	245.79	245.90	0.008030	0.79	0.47	2.63	0.60
Reach18	3011.21	2 Year	DonPhaselI_Final_Baseline	0.31	245.49	245.84	245.77	245.87	0.007746	0.75	0.42	2.46	0.58
Reach18	3011.21	2 Year	DonPhaselI_Final_Proposed	0.31	245.49	245.84	245.77	245.87	0.007746	0.75	0.42	2.46	0.58
Reach18	2911.6	Regional	DonPhaselI_Final_Baseline	41.74	244.35	245.97	245.61	246.01	0.002467	1.57	65.31	82.19	0.43
Reach18	2911.6	Regional	DonPhaselI_Final_Proposed	41.74	244.35	245.97	245.61	246.01	0.002467	1.57	65.31	82.19	0.43
Reach18	2911.6	350 Year	DonPhaselI_Final_Baseline	4.23	244.35	244.98	244.98	245.17	0.018705	1.95	2.18	12.62	0.99
Reach18	2911.6	350 Year	DonPhaselI_Final_Proposed	4.23	244.35	244.98	244.98	245.17	0.018705	1.95	2.18	12.62	0.99
Reach18	2911.6	1.3*100 Year	DonPhaselI_Final_Baseline	0.88	244.35	244.65	244.65	244.74	0.021497	1.33	0.66	3.61	0.99
Reach18	2911.6	1.3*100 Year	DonPhaselI_Final_Proposed	0.88	244.35	244.65	244.65	244.74	0.021497	1.33	0.66	3.61	0.99
Reach18	2911.6	100 Year	DonPhaselI_Final_Baseline	0.68	244.35	244.61	244.61	244.70	0.022858	1.29	0.53	3.18	1.01
Reach18	2911.6	100 Year	DonPhaselI_Final_Proposed	0.68	244.35	244.61	244.61	244.70	0.022858	1.29	0.53	3.18	1.01
Reach18	2911.6	50 Year	DonPhaselI_Final_Baseline	0.56	244.35	244.59	244.59	244.67	0.023392	1.24	0.45	2.90	1.01
Reach18	2911.6	50 Year	DonPhaselI_Final_Proposed	0.56	244.35	244.59	244.59	244.67	0.023392	1.24	0.45	2.90	1.01
Reach18	2911.6	25 Year	DonPhaselI_Final_Baseline	0.46	244.35	244.56	244.56	244.64	0.023758	1.20	0.38	2.65	1.00
Reach18	2911.6	25 Year	DonPhaselI_Final_Proposed	0.46	244.35	244.56	244.56	244.64	0.023758	1.20	0.38	2.65	1.00
Reach18	2911.6	10 Year	DonPhaselI_Final_Baseline	0.41	244.35	244.55	244.55	244.62	0.024177	1.18	0.35	2.50	1.01
Reach18	2911.6	10 Year	DonPhaselI_Final_Proposed	0.41	244.35	244.55	244.55	244.62	0.024177	1.18	0.35	2.50	1.01
Reach18	2911.6	5 Year	DonPhaselI_Final_Baseline	0.37	244.35	244.54	244.54	244.61	0.024050	1.14	0.32	2.42	1.00
Reach18	2911.6	5 Year	DonPhaselI_Final_Proposed	0.37	244.35	244.54	244.54	244.61	0.024050	1.14	0.32	2.42	1.00
Reach18	2911.6	2 Year	DonPhaselI_Final_Baseline	0.31	244.35	244.52	244.52	244.58	0.025422	1.11	0.28	2.28	1.01
Reach18	2911.6	2 Year	DonPhaselI_Final_Proposed	0.31	244.35	244.52	244.52	244.58	0.025422	1.11	0.28	2.28	1.01
Reach18	2849.55	Regional	DonPhaselI_Final_Baseline	41.74	243.60	245.93		245.95	0.000482	1.01	115.39	98.53	0.22
Reach18	2849.55	Regional	DonPhaselI_Final_Proposed	41.74	243.60	245.93		245.95	0.000482	1.01	115.39	98.53	0.22
Reach18	2849.55	350 Year	DonPhaselI_Final_Baseline	4.23	243.60	244.26	244.20	244.33	0.007014	1.32	6.00	26.50	0.65
Reach18	2849.55	350 Year	DonPhaselI_Final_Proposed	4.23	243.60	244.26	244.20	244.33	0.007014	1.32	6.00	26.50	0.65
Reach18	2849.55	1.3*100 Year	DonPhaselI_Final_Baseline	0.88	243.60	244.04		244.06	0.005034	0.77	1.54	8.81	0.50
Reach18	2849.55	1.3*100 Year	DonPhaselI_Final_Proposed	0.88	243.60	244.04		244.06	0.005034	0.77	1.54	8.81	0.50
Reach18	2849.55	100 Year	DonPhaselI_Final_Baseline	0.68	243.60	243.99		244.02	0.004884	0.73	1.19	7.08	0.49
Reach18	2849.55	100 Year	DonPhaselI_Final_Proposed	0.68	243.60	243.99		244.02	0.004884	0.73	1.19	7.08	0.49
Reach18	2849.55	50 Year	DonPhaselI_Final_Baseline	0.56	243.60	243.96		243.99	0.004794	0.69	1.01	6.33	0.48

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	2849.55	50 Year	DonPhaselI_Final_Proposed	0.56	243.60	243.96		243.99	0.004794	0.69	1.01	6.33	0.48
Reach18	2849.55	25 Year	DonPhaselI_Final_Baseline	0.46	243.60	243.94		243.96	0.004798	0.66	0.85	5.77	0.47
Reach18	2849.55	25 Year	DonPhaselI_Final_Proposed	0.46	243.60	243.94		243.96	0.004798	0.66	0.85	5.77	0.47
Reach18	2849.55	10 Year	DonPhaselI_Final_Baseline	0.41	243.60	243.92		243.94	0.004877	0.64	0.77	5.47	0.47
Reach18	2849.55	10 Year	DonPhaselI_Final_Proposed	0.41	243.60	243.92		243.94	0.004877	0.64	0.77	5.47	0.47
Reach18	2849.55	5 Year	DonPhaselI_Final_Baseline	0.37	243.60	243.91		243.93	0.004832	0.63	0.70	5.24	0.47
Reach18	2849.55	5 Year	DonPhaselI_Final_Proposed	0.37	243.60	243.91		243.93	0.004832	0.63	0.70	5.24	0.47
Reach18	2849.55	2 Year	DonPhaselI_Final_Baseline	0.31	243.60	243.89		243.91	0.004977	0.60	0.59	4.81	0.47
Reach18	2849.55	2 Year	DonPhaselI_Final_Proposed	0.31	243.60	243.89		243.91	0.004977	0.60	0.59	4.81	0.47
Reach18	2797.98	Regional	DonPhaselI_Final_Baseline	41.74	243.30	245.93		245.93	0.000128	0.48	188.05	111.14	0.10
Reach18	2797.98	Regional	DonPhaselI_Final_Proposed	41.74	243.30	245.93		245.93	0.000128	0.48	188.05	111.14	0.10
Reach18	2797.98	350 Year	DonPhaselI_Final_Baseline	4.23	243.30	243.79	243.78	243.87	0.014002	1.50	5.24	35.90	0.86
Reach18	2797.98	350 Year	DonPhaselI_Final_Proposed	4.23	243.30	243.79	243.78	243.87	0.014002	1.50	5.24	35.90	0.86
Reach18	2797.98	1.3*100 Year	DonPhaselI_Final_Baseline	0.88	243.30	243.59	243.59	243.65	0.015198	1.10	0.99	10.15	0.88
Reach18	2797.98	1.3*100 Year	DonPhaselI_Final_Proposed	0.88	243.30	243.59	243.59	243.65	0.015198	1.10	0.99	10.15	0.88
Reach18	2797.98	100 Year	DonPhaselI_Final_Baseline	0.68	243.30	243.57	243.56	243.62	0.014204	1.00	0.79	9.15	0.82
Reach18	2797.98	100 Year	DonPhaselI_Final_Proposed	0.68	243.30	243.57	243.56	243.62	0.014204	1.00	0.79	9.15	0.82
Reach18	2797.98	50 Year	DonPhaselI_Final_Baseline	0.56	243.30	243.56	243.54	243.60	0.013724	0.94	0.65	7.89	0.79
Reach18	2797.98	50 Year	DonPhaselI_Final_Proposed	0.56	243.30	243.56	243.54	243.60	0.013724	0.94	0.65	7.89	0.79
Reach18	2797.98	25 Year	DonPhaselI_Final_Baseline	0.46	243.30	243.54	243.51	243.58	0.013124	0.88	0.54	5.44	0.76
Reach18	2797.98	25 Year	DonPhaselI_Final_Proposed	0.46	243.30	243.54	243.51	243.58	0.013124	0.88	0.54	5.44	0.76
Reach18	2797.98	10 Year	DonPhaselI_Final_Baseline	0.41	243.30	243.53	243.50	243.57	0.012392	0.84	0.49	4.95	0.74
Reach18	2797.98	10 Year	DonPhaselI_Final_Proposed	0.41	243.30	243.53	243.50	243.57	0.012392	0.84	0.49	4.95	0.74
Reach18	2797.98	5 Year	DonPhaselI_Final_Baseline	0.37	243.30	243.52		243.56	0.012137	0.82	0.45	3.74	0.72
Reach18	2797.98	5 Year	DonPhaselI_Final_Proposed	0.37	243.30	243.52		243.56	0.012137	0.82	0.45	3.74	0.72
Reach18	2797.98	2 Year	DonPhaselI_Final_Baseline	0.31	243.30	243.51		243.54	0.011162	0.76	0.41	3.20	0.68
Reach18	2797.98	2 Year	DonPhaselI_Final_Proposed	0.31	243.30	243.51		243.54	0.011162	0.76	0.41	3.20	0.68
Reach18	2759.24	Regional	DonPhaselI_Final_Baseline	41.74	243.12	245.93	243.89	245.93	0.000072	0.48	251.40	247.96	0.09
Reach18	2759.24	Regional	DonPhaselI_Final_Proposed	41.74	243.12	245.93	243.89	245.93	0.000072	0.48	251.40	247.96	0.09
Reach18	2759.24	350 Year	DonPhaselI_Final_Baseline	4.23	243.12	243.53	243.38	243.55	0.005484	1.09	9.56	42.52	0.57
Reach18	2759.24	350 Year	DonPhaselI_Final_Proposed	4.23	243.12	243.53	243.38	243.55	0.005484	1.09	9.56	42.52	0.57
Reach18	2759.24	1.3*100 Year	DonPhaselI_Final_Baseline	0.88	243.12	243.32	243.24	243.33	0.005107	0.61	3.12	25.36	0.48
Reach18	2759.24	1.3*100 Year	DonPhaselI_Final_Proposed	0.88	243.12	243.32	243.24	243.33	0.005107	0.61	3.12	25.36	0.48
Reach18	2759.24	100 Year	DonPhaselI_Final_Baseline	0.68	243.12	243.30	243.23	243.31	0.005108	0.55	2.61	24.25	0.47
Reach18	2759.24	100 Year	DonPhaselI_Final_Proposed	0.68	243.12	243.30	243.23	243.31	0.005108	0.55	2.61	24.25	0.47
Reach18	2759.24	50 Year	DonPhaselI_Final_Baseline	0.56	243.12	243.29	243.22	243.29	0.004996	0.51	2.31	23.77	0.46
Reach18	2759.24	50 Year	DonPhaselI_Final_Proposed	0.56	243.12	243.29	243.22	243.29	0.004996	0.51	2.31	23.77	0.46
Reach18	2759.24	25 Year	DonPhaselI_Final_Baseline	0.46	243.12	243.28	243.22	243.28	0.004931	0.48	2.03	23.25	0.45
Reach18	2759.24	25 Year	DonPhaselI_Final_Proposed	0.46	243.12	243.28	243.22	243.28	0.004931	0.48	2.03	23.25	0.45
Reach18	2759.24	10 Year	DonPhaselI_Final_Baseline	0.41	243.12	243.27	243.21	243.27	0.005043	0.46	1.84	21.82	0.45
Reach18	2759.24	10 Year	DonPhaselI_Final_Proposed	0.41	243.12	243.27	243.21	243.27	0.005043	0.46	1.84	21.82	0.45
Reach18	2759.24	5 Year	DonPhaselI_Final_Baseline	0.37	243.12	243.26	243.21	243.27	0.004953	0.44	1.72	21.41	0.44
Reach18	2759.24	5 Year	DonPhaselI_Final_Proposed	0.37	243.12	243.26	243.21	243.27	0.004953	0.44	1.72	21.41	0.44
Reach18	2759.24	2 Year	DonPhaselI_Final_Baseline	0.31	243.12	243.25	243.20	243.26	0.005009	0.42	1.52	20.68	0.43
Reach18	2759.24	2 Year	DonPhaselI_Final_Proposed	0.31	243.12	243.25	243.20	243.26	0.005009	0.42	1.52	20.68	0.43
Reach18	2724.11	Regional	DonPhaselI_Final_Baseline	41.74	242.93	245.93	243.77	245.93	0.000071	0.49	234.06	425.74	0.09

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	2724.11	Regional	DonPhaselI_Final_Proposed	41.74	242.93	245.93	243.77	245.93	0.000071	0.49	234.06	425.74	0.09
Reach18	2724.11	350 Year	DonPhaselI_Final_Baseline	4.23	242.93	243.29	243.19	243.33	0.010258	1.24	6.83	90.40	0.75
Reach18	2724.11	350 Year	DonPhaselI_Final_Proposed	4.23	242.93	243.29	243.19	243.33	0.010258	1.24	6.83	90.40	0.75
Reach18	2724.11	1.3*100 Year	DonPhaselI_Final_Baseline	0.88	242.93	243.11	243.05	243.12	0.009488	0.62	2.36	51.28	0.61
Reach18	2724.11	1.3*100 Year	DonPhaselI_Final_Proposed	0.88	242.93	243.11	243.05	243.12	0.009488	0.62	2.36	51.28	0.61
Reach18	2724.11	100 Year	DonPhaselI_Final_Baseline	0.68	242.93	243.10	243.05	243.10	0.009312	0.55	2.01	50.32	0.59
Reach18	2724.11	100 Year	DonPhaselI_Final_Proposed	0.68	242.93	243.10	243.05	243.10	0.009312	0.55	2.01	50.32	0.59
Reach18	2724.11	50 Year	DonPhaselI_Final_Baseline	0.56	242.93	243.09	243.04	243.09	0.009124	0.51	1.78	49.52	0.57
Reach18	2724.11	50 Year	DonPhaselI_Final_Proposed	0.56	242.93	243.09	243.04	243.09	0.009124	0.51	1.78	49.52	0.57
Reach18	2724.11	25 Year	DonPhaselI_Final_Baseline	0.46	242.93	243.07	243.03	243.08	0.009102	0.48	1.56	48.53	0.56
Reach18	2724.11	25 Year	DonPhaselI_Final_Proposed	0.46	242.93	243.07	243.03	243.08	0.009102	0.48	1.56	48.53	0.56
Reach18	2724.11	10 Year	DonPhaselI_Final_Baseline	0.41	242.93	243.07	243.02	243.07	0.009106	0.46	1.44	47.98	0.56
Reach18	2724.11	10 Year	DonPhaselI_Final_Proposed	0.41	242.93	243.07	243.02	243.07	0.009106	0.46	1.44	47.98	0.56
Reach18	2724.11	5 Year	DonPhaselI_Final_Baseline	0.37	242.93	243.06	243.02	243.07	0.009125	0.44	1.34	47.52	0.55
Reach18	2724.11	5 Year	DonPhaselI_Final_Proposed	0.37	242.93	243.06	243.02	243.07	0.009125	0.44	1.34	47.52	0.55
Reach18	2724.11	2 Year	DonPhaselI_Final_Baseline	0.31	242.93	243.05	243.02	243.06	0.008845	0.41	1.20	46.39	0.53
Reach18	2724.11	2 Year	DonPhaselI_Final_Proposed	0.31	242.93	243.05	243.02	243.06	0.008845	0.41	1.20	46.39	0.53
Reach18	2690.49	Regional	DonPhaselI_Final_Baseline	41.74	242.51	245.92		245.93	0.000081	0.57	188.68	95.52	0.10
Reach18	2690.49	Regional	DonPhaselI_Final_Proposed	41.74	242.51	245.92		245.93	0.000081	0.57	188.68	95.52	0.10
Reach18	2690.49	350 Year	DonPhaselI_Final_Baseline	4.23	242.51	243.14		243.16	0.002722	0.97	10.01	29.95	0.43
Reach18	2690.49	350 Year	DonPhaselI_Final_Proposed	4.23	242.51	243.14		243.16	0.002722	0.97	10.01	29.95	0.43
Reach18	2690.49	1.3*100 Year	DonPhaselI_Final_Baseline	0.88	242.51	242.82		242.84	0.007001	0.85	2.28	22.18	0.59
Reach18	2690.49	1.3*100 Year	DonPhaselI_Final_Proposed	0.88	242.51	242.82		242.84	0.007001	0.85	2.28	22.18	0.59
Reach18	2690.49	100 Year	DonPhaselI_Final_Baseline	0.68	242.51	242.79	242.76	242.82	0.007604	0.81	1.69	19.31	0.60
Reach18	2690.49	100 Year	DonPhaselI_Final_Proposed	0.68	242.51	242.79	242.76	242.82	0.007604	0.81	1.69	19.31	0.60
Reach18	2690.49	50 Year	DonPhaselI_Final_Baseline	0.56	242.51	242.77	242.74	242.80	0.008152	0.78	1.34	16.73	0.61
Reach18	2690.49	50 Year	DonPhaselI_Final_Proposed	0.56	242.51	242.77	242.74	242.80	0.008152	0.78	1.34	16.73	0.61
Reach18	2690.49	25 Year	DonPhaselI_Final_Baseline	0.46	242.51	242.76	242.73	242.78	0.008564	0.75	1.09	13.44	0.61
Reach18	2690.49	25 Year	DonPhaselI_Final_Proposed	0.46	242.51	242.76	242.73	242.78	0.008564	0.75	1.09	13.44	0.61
Reach18	2690.49	10 Year	DonPhaselI_Final_Baseline	0.41	242.51	242.75	242.72	242.77	0.008730	0.73	0.96	12.39	0.62
Reach18	2690.49	10 Year	DonPhaselI_Final_Proposed	0.41	242.51	242.75	242.72	242.77	0.008730	0.73	0.96	12.39	0.62
Reach18	2690.49	5 Year	DonPhaselI_Final_Baseline	0.37	242.51	242.74	242.71	242.76	0.008793	0.72	0.86	11.69	0.61
Reach18	2690.49	5 Year	DonPhaselI_Final_Proposed	0.37	242.51	242.74	242.71	242.76	0.008793	0.72	0.86	11.69	0.61
Reach18	2690.49	2 Year	DonPhaselI_Final_Baseline	0.31	242.51	242.72	242.70	242.74	0.009478	0.71	0.69	10.34	0.63
Reach18	2690.49	2 Year	DonPhaselI_Final_Proposed	0.31	242.51	242.72	242.70	242.74	0.009478	0.71	0.69	10.34	0.63
Reach18	2680.01	Regional	DonPhaselI_Final_Baseline	41.74	242.36	245.81	243.91	245.90	0.000866	1.68	38.56	56.72	0.29
Reach18	2680.01	Regional	DonPhaselI_Final_Proposed	41.74	242.36	245.81	243.91	245.90	0.000866	1.68	38.56	56.72	0.29
Reach18	2680.01	350 Year	DonPhaselI_Final_Baseline	4.23	242.36	242.92	242.92	243.07	0.016544	1.92	3.23	11.99	0.92
Reach18	2680.01	350 Year	DonPhaselI_Final_Proposed	4.23	242.36	242.92	242.92	243.07	0.016544	1.92	3.23	11.99	0.92
Reach18	2680.01	1.3*100 Year	DonPhaselI_Final_Baseline	0.88	242.36	242.64	242.64	242.71	0.022424	1.26	0.83	6.08	0.95
Reach18	2680.01	1.3*100 Year	DonPhaselI_Final_Proposed	0.88	242.36	242.64	242.64	242.71	0.022424	1.26	0.83	6.08	0.95
Reach18	2680.01	100 Year	DonPhaselI_Final_Baseline	0.68	242.36	242.61	242.61	242.68	0.022809	1.18	0.67	5.66	0.95
Reach18	2680.01	100 Year	DonPhaselI_Final_Proposed	0.68	242.36	242.61	242.61	242.68	0.022809	1.18	0.67	5.66	0.95
Reach18	2680.01	50 Year	DonPhaselI_Final_Baseline	0.56	242.36	242.59	242.59	242.65	0.022964	1.12	0.56	5.38	0.94
Reach18	2680.01	50 Year	DonPhaselI_Final_Proposed	0.56	242.36	242.59	242.59	242.65	0.022964	1.12	0.56	5.38	0.94
Reach18	2680.01	25 Year	DonPhaselI_Final_Baseline	0.46	242.36	242.57	242.57	242.63	0.023860	1.07	0.46	4.81	0.96
Reach18	2680.01	25 Year	DonPhaselI_Final_Proposed	0.46	242.36	242.57	242.57	242.63	0.023860	1.07	0.46	4.81	0.96

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	2680.01	10 Year	DonPhaselI_Final_Baseline	0.41	242.36	242.56	242.56	242.62	0.024243	1.04	0.42	4.51	0.97
Reach18	2680.01	10 Year	DonPhaselI_Final_Proposed	0.41	242.36	242.56	242.56	242.62	0.024243	1.04	0.42	4.51	0.97
Reach18	2680.01	5 Year	DonPhaselI_Final_Baseline	0.37	242.36	242.55	242.55	242.60	0.025139	1.03	0.37	4.23	0.99
Reach18	2680.01	5 Year	DonPhaselI_Final_Proposed	0.37	242.36	242.55	242.55	242.60	0.025139	1.03	0.37	4.23	0.99
Reach18	2680.01	2 Year	DonPhaselI_Final_Baseline	0.31	242.36	242.54	242.54	242.59	0.024849	0.97	0.32	3.77	0.98
Reach18	2680.01	2 Year	DonPhaselI_Final_Proposed	0.31	242.36	242.54	242.54	242.59	0.024849	0.97	0.32	3.77	0.98
Reach18	2647.15			Culvert									
Reach18	2613.2	Regional	DonPhaselI_Final_Baseline	41.74	242.20	243.40	243.40	243.97	0.013476	3.54	13.81	68.51	1.07
Reach18	2613.2	Regional	DonPhaselI_Final_Proposed	41.74	242.20	243.40	243.40	243.97	0.013476	3.54	13.81	68.51	1.07
Reach18	2613.2	350 Year	DonPhaselI_Final_Baseline	4.23	242.20	242.51	242.51	242.64	0.025042	1.70	2.94	42.85	1.13
Reach18	2613.2	350 Year	DonPhaselI_Final_Proposed	4.23	242.20	242.51	242.51	242.64	0.025042	1.70	2.94	42.85	1.13
Reach18	2613.2	1.3*100 Year	DonPhaselI_Final_Baseline	0.88	242.20	242.34	242.34	242.39	0.046647	1.06	0.98	32.17	1.27
Reach18	2613.2	1.3*100 Year	DonPhaselI_Final_Proposed	0.88	242.20	242.34	242.34	242.39	0.046647	1.06	0.98	32.17	1.27
Reach18	2613.2	100 Year	DonPhaselI_Final_Baseline	0.68	242.20	242.33	242.33	242.37	0.055406	0.98	0.80	31.08	1.33
Reach18	2613.2	100 Year	DonPhaselI_Final_Proposed	0.68	242.20	242.33	242.33	242.37	0.055406	0.98	0.80	31.08	1.33
Reach18	2613.2	50 Year	DonPhaselI_Final_Baseline	0.56	242.20	242.32	242.32	242.35	0.053962	0.89	0.72	30.56	1.28
Reach18	2613.2	50 Year	DonPhaselI_Final_Proposed	0.56	242.20	242.32	242.32	242.35	0.053962	0.89	0.72	30.56	1.28
Reach18	2613.2	25 Year	DonPhaselI_Final_Baseline	0.46	242.20	242.31	242.31	242.34	0.054938	0.83	0.63	29.86	1.27
Reach18	2613.2	25 Year	DonPhaselI_Final_Proposed	0.46	242.20	242.31	242.31	242.34	0.054938	0.83	0.63	29.86	1.27
Reach18	2613.2	10 Year	DonPhaselI_Final_Baseline	0.41	242.20	242.31	242.31	242.33	0.047457	0.78	0.61	29.28	1.18
Reach18	2613.2	10 Year	DonPhaselI_Final_Proposed	0.41	242.20	242.31	242.31	242.33	0.047457	0.78	0.61	29.28	1.18
Reach18	2613.2	5 Year	DonPhaselI_Final_Baseline	0.37	242.20	242.29	242.29	242.33	0.061575	0.95	0.48	26.40	1.37
Reach18	2613.2	5 Year	DonPhaselI_Final_Proposed	0.37	242.20	242.29	242.29	242.33	0.061575	0.95	0.48	26.40	1.37
Reach18	2613.2	2 Year	DonPhaselI_Final_Baseline	0.31	242.20	242.28	242.28	242.32	0.068528	0.93	0.40	25.22	1.42
Reach18	2613.2	2 Year	DonPhaselI_Final_Proposed	0.31	242.20	242.28	242.28	242.32	0.068528	0.93	0.40	25.22	1.42
Reach18	2605.63	Regional	DonPhaselI_Final_Baseline	48.10	242.15	243.16	242.54	243.20	0.003093	1.55	66.62	71.29	0.50
Reach18	2605.63	Regional	DonPhaselI_Final_Proposed	48.10	242.15	243.16	242.54	243.20	0.003093	1.55	66.62	71.29	0.50
Reach18	2605.63	350 Year	DonPhaselI_Final_Baseline	4.97	242.15	242.28	242.13	242.30	0.010337	0.59	10.55	52.58	0.62
Reach18	2605.63	350 Year	DonPhaselI_Final_Proposed	4.97	242.15	242.28	242.13	242.30	0.010337	0.59	10.55	52.58	0.62
Reach18	2605.63	1.3*100 Year	DonPhaselI_Final_Baseline	0.99	242.15	242.01	241.92	242.03	0.020580		1.87	11.70	0.00
Reach18	2605.63	1.3*100 Year	DonPhaselI_Final_Proposed	0.99	242.15	242.01	241.92	242.03	0.020580		1.87	11.70	0.00
Reach18	2605.63	100 Year	DonPhaselI_Final_Baseline	0.76	242.15	241.98	241.90	241.99	0.021054		1.48	9.80	0.00
Reach18	2605.63	100 Year	DonPhaselI_Final_Proposed	0.76	242.15	241.98	241.90	241.99	0.021054		1.48	9.80	0.00
Reach18	2605.63	50 Year	DonPhaselI_Final_Baseline	0.58	242.15	241.95	241.88	241.96	0.021360		1.21	8.95	0.00
Reach18	2605.63	50 Year	DonPhaselI_Final_Proposed	0.58	242.15	241.95	241.88	241.96	0.021360		1.21	8.95	0.00
Reach18	2605.63	25 Year	DonPhaselI_Final_Baseline	0.49	242.15	241.93	241.87	241.95	0.021942		1.07	8.74	0.00
Reach18	2605.63	25 Year	DonPhaselI_Final_Proposed	0.49	242.15	241.93	241.87	241.95	0.021942		1.07	8.74	0.00
Reach18	2605.63	10 Year	DonPhaselI_Final_Baseline	0.42	242.15	241.92	241.87	241.93	0.021995		0.97	8.58	0.00
Reach18	2605.63	10 Year	DonPhaselI_Final_Proposed	0.42	242.15	241.92	241.87	241.93	0.021995		0.97	8.58	0.00
Reach18	2605.63	5 Year	DonPhaselI_Final_Baseline	0.37	242.15	241.91	241.86	241.92	0.022115		0.89	8.42	0.00
Reach18	2605.63	5 Year	DonPhaselI_Final_Proposed	0.37	242.15	241.91	241.86	241.92	0.022115		0.89	8.42	0.00
Reach18	2605.63	2 Year	DonPhaselI_Final_Baseline	0.29	242.15	241.90	241.85	241.91	0.021406		0.77	8.13	0.00
Reach18	2605.63	2 Year	DonPhaselI_Final_Proposed	0.29	242.15	241.90	241.85	241.91	0.021406		0.77	8.13	0.00
Reach18	2506.69	Regional	DonPhaselI_Final_Baseline	48.10	240.38	242.29	242.29	242.71	0.010075	4.08	27.93	29.79	0.99
Reach18	2506.69	Regional	DonPhaselI_Final_Proposed	48.10	240.38	242.29	242.29	242.71	0.010075	4.08	27.93	29.79	0.99

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	2506.69	350 Year	DonPhaselI_Final_Baseline	4.97	240.38	241.19	241.19	241.37	0.010149	2.11	3.85	11.63	0.84
Reach18	2506.69	350 Year	DonPhaselI_Final_Proposed	4.97	240.38	241.19	241.19	241.37	0.010149	2.11	3.85	11.63	0.84
Reach18	2506.69	1.3*100 Year	DonPhaselI_Final_Baseline	0.99	240.38	240.83	240.77	240.90	0.008528	1.13	0.93	4.24	0.67
Reach18	2506.69	1.3*100 Year	DonPhaselI_Final_Proposed	0.99	240.38	240.83	240.77	240.90	0.008528	1.13	0.93	4.24	0.67
Reach18	2506.69	100 Year	DonPhaselI_Final_Baseline	0.76	240.38	240.79	240.73	240.84	0.008662	1.02	0.77	3.70	0.66
Reach18	2506.69	100 Year	DonPhaselI_Final_Proposed	0.76	240.38	240.79	240.73	240.84	0.008662	1.02	0.77	3.70	0.66
Reach18	2506.69	50 Year	DonPhaselI_Final_Baseline	0.58	240.38	240.75	240.69	240.80	0.008750	0.92	0.64	3.35	0.65
Reach18	2506.69	50 Year	DonPhaselI_Final_Proposed	0.58	240.38	240.75	240.69	240.80	0.008750	0.92	0.64	3.35	0.65
Reach18	2506.69	25 Year	DonPhaselI_Final_Baseline	0.49	240.38	240.73	240.67	240.77	0.008755	0.87	0.57	3.16	0.64
Reach18	2506.69	25 Year	DonPhaselI_Final_Proposed	0.49	240.38	240.73	240.67	240.77	0.008755	0.87	0.57	3.16	0.64
Reach18	2506.69	10 Year	DonPhaselI_Final_Baseline	0.42	240.38	240.71	240.66	240.75	0.008869	0.83	0.51	2.97	0.63
Reach18	2506.69	10 Year	DonPhaselI_Final_Proposed	0.42	240.38	240.71	240.66	240.75	0.008869	0.83	0.51	2.97	0.63
Reach18	2506.69	5 Year	DonPhaselI_Final_Baseline	0.37	240.38	240.70	240.64	240.73	0.008930	0.80	0.46	2.84	0.63
Reach18	2506.69	5 Year	DonPhaselI_Final_Proposed	0.37	240.38	240.70	240.64	240.73	0.008930	0.80	0.46	2.84	0.63
Reach18	2506.69	2 Year	DonPhaselI_Final_Baseline	0.29	240.38	240.67	240.62	240.70	0.009332	0.76	0.38	2.57	0.63
Reach18	2506.69	2 Year	DonPhaselI_Final_Proposed	0.29	240.38	240.67	240.62	240.70	0.009332	0.76	0.38	2.57	0.63
Reach18	2460	Regional	DonPhaselI_Final_Baseline	48.10	239.80	241.74	241.49	241.94	0.005850	3.09	38.67	37.98	0.75
Reach18	2460	Regional	DonPhaselI_Final_Proposed	48.10	239.80	241.74	241.49	241.94	0.005850	3.09	38.67	37.98	0.75
Reach18	2460	350 Year	DonPhaselI_Final_Baseline	4.97	239.80	240.58	240.58	240.72	0.010424	1.98	4.76	17.31	0.83
Reach18	2460	350 Year	DonPhaselI_Final_Proposed	4.97	239.80	240.58	240.58	240.72	0.010424	1.98	4.76	17.31	0.83
Reach18	2460	1.3*100 Year	DonPhaselI_Final_Baseline	0.99	239.80	240.22	240.22	240.32	0.019021	1.45	0.71	3.79	0.96
Reach18	2460	1.3*100 Year	DonPhaselI_Final_Proposed	0.99	239.80	240.22	240.22	240.32	0.019021	1.45	0.71	3.79	0.96
Reach18	2460	100 Year	DonPhaselI_Final_Baseline	0.76	239.80	240.18	240.17	240.27	0.018543	1.33	0.58	3.14	0.93
Reach18	2460	100 Year	DonPhaselI_Final_Proposed	0.76	239.80	240.18	240.17	240.27	0.018543	1.33	0.58	3.14	0.93
Reach18	2460	50 Year	DonPhaselI_Final_Baseline	0.58	239.80	240.14	240.13	240.22	0.018571	1.22	0.48	2.81	0.91
Reach18	2460	50 Year	DonPhaselI_Final_Proposed	0.58	239.80	240.14	240.13	240.22	0.018571	1.22	0.48	2.81	0.91
Reach18	2460	25 Year	DonPhaselI_Final_Baseline	0.49	239.80	240.13	240.11	240.19	0.018575	1.15	0.43	2.64	0.90
Reach18	2460	25 Year	DonPhaselI_Final_Proposed	0.49	239.80	240.13	240.11	240.19	0.018575	1.15	0.43	2.64	0.90
Reach18	2460	10 Year	DonPhaselI_Final_Baseline	0.42	239.80	240.11	240.09	240.17	0.018103	1.08	0.39	2.50	0.88
Reach18	2460	10 Year	DonPhaselI_Final_Proposed	0.42	239.80	240.11	240.09	240.17	0.018103	1.08	0.39	2.50	0.88
Reach18	2460	5 Year	DonPhaselI_Final_Baseline	0.37	239.80	240.10	240.08	240.15	0.017861	1.05	0.35	2.37	0.87
Reach18	2460	5 Year	DonPhaselI_Final_Proposed	0.37	239.80	240.10	240.08	240.15	0.017861	1.05	0.35	2.37	0.87
Reach18	2460	2 Year	DonPhaselI_Final_Baseline	0.29	239.80	240.07	240.05	240.12	0.016993	0.97	0.30	2.15	0.84
Reach18	2460	2 Year	DonPhaselI_Final_Proposed	0.29	239.80	240.07	240.05	240.12	0.016993	0.97	0.30	2.15	0.84
Reach18	2413.25	Regional	DonPhaselI_Final_Baseline	48.10	239.14	241.05	241.05	241.55	0.011918	4.36	27.09	32.19	1.05
Reach18	2413.25	Regional	DonPhaselI_Final_Proposed	48.10	239.14	241.05	241.05	241.55	0.011918	4.36	27.09	32.19	1.05
Reach18	2413.25	350 Year	DonPhaselI_Final_Baseline	4.97	239.14	240.03	240.01	240.22	0.007898	2.00	3.85	14.40	0.74
Reach18	2413.25	350 Year	DonPhaselI_Final_Proposed	4.97	239.14	240.03	240.01	240.22	0.007898	2.00	3.85	14.40	0.74
Reach18	2413.25	1.3*100 Year	DonPhaselI_Final_Baseline	0.99	239.14	239.55		239.63	0.011801	1.26	0.78	2.86	0.77
Reach18	2413.25	1.3*100 Year	DonPhaselI_Final_Proposed	0.99	239.14	239.55		239.63	0.011801	1.26	0.78	2.86	0.77
Reach18	2413.25	100 Year	DonPhaselI_Final_Baseline	0.76	239.14	239.50		239.57	0.012197	1.18	0.64	2.64	0.77
Reach18	2413.25	100 Year	DonPhaselI_Final_Proposed	0.76	239.14	239.50		239.57	0.012197	1.18	0.64	2.64	0.77
Reach18	2413.25	50 Year	DonPhaselI_Final_Baseline	0.58	239.14	239.45		239.51	0.012463	1.11	0.52	2.43	0.76
Reach18	2413.25	50 Year	DonPhaselI_Final_Proposed	0.58	239.14	239.45		239.51	0.012463	1.11	0.52	2.43	0.76
Reach18	2413.25	25 Year	DonPhaselI_Final_Baseline	0.49	239.14	239.42		239.48	0.012696	1.06	0.46	2.30	0.76
Reach18	2413.25	25 Year	DonPhaselI_Final_Proposed	0.49	239.14	239.42		239.48	0.012696	1.06	0.46	2.30	0.76
Reach18	2413.25	10 Year	DonPhaselI_Final_Baseline	0.42	239.14	239.40		239.45	0.013083	1.03	0.41	2.19	0.76

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	2413.25	10 Year	DonPhaselI_Final_Proposed	0.42	239.14	239.40		239.45	0.013083	1.03	0.41	2.19	0.76
Reach18	2413.25	5 Year	DonPhaselI_Final_Baseline	0.37	239.14	239.38		239.43	0.013304	1.00	0.37	2.11	0.76
Reach18	2413.25	5 Year	DonPhaselI_Final_Proposed	0.37	239.14	239.38		239.43	0.013304	1.00	0.37	2.11	0.76
Reach18	2413.25	2 Year	DonPhaselI_Final_Baseline	0.29	239.14	239.35		239.40	0.014087	0.95	0.30	1.96	0.77
Reach18	2413.25	2 Year	DonPhaselI_Final_Proposed	0.29	239.14	239.35		239.40	0.014087	0.95	0.30	1.96	0.77
Reach18	2369	Regional	DonPhaselI_Final_Baseline	48.10	238.71	240.50	240.50	240.82	0.009706	3.72	34.73	46.59	0.94
Reach18	2369	Regional	DonPhaselI_Final_Proposed	48.10	238.71	240.50	240.50	240.82	0.009706	3.72	34.73	46.59	0.94
Reach18	2369	350 Year	DonPhaselI_Final_Baseline	4.97	238.71	239.53	239.51	239.78	0.012475	2.26	2.48	6.91	0.91
Reach18	2369	350 Year	DonPhaselI_Final_Proposed	4.97	238.71	239.53	239.51	239.78	0.012475	2.26	2.48	6.91	0.91
Reach18	2369	1.3*100 Year	DonPhaselI_Final_Baseline	0.99	238.71	239.17	239.07	239.22	0.007207	1.05	0.94	3.31	0.61
Reach18	2369	1.3*100 Year	DonPhaselI_Final_Proposed	0.99	238.71	239.17	239.07	239.22	0.007207	1.05	0.94	3.31	0.61
Reach18	2369	100 Year	DonPhaselI_Final_Baseline	0.76	238.71	239.13	239.03	239.17	0.006814	0.94	0.81	3.13	0.59
Reach18	2369	100 Year	DonPhaselI_Final_Proposed	0.76	238.71	239.13	239.03	239.17	0.006814	0.94	0.81	3.13	0.59
Reach18	2369	50 Year	DonPhaselI_Final_Baseline	0.58	238.71	239.08	238.99	239.12	0.006455	0.85	0.68	2.92	0.56
Reach18	2369	50 Year	DonPhaselI_Final_Proposed	0.58	238.71	239.08	238.99	239.12	0.006455	0.85	0.68	2.92	0.56
Reach18	2369	25 Year	DonPhaselI_Final_Baseline	0.49	238.71	239.06	238.97	239.09	0.006374	0.81	0.61	2.79	0.55
Reach18	2369	25 Year	DonPhaselI_Final_Proposed	0.49	238.71	239.06	238.97	239.09	0.006374	0.81	0.61	2.79	0.55
Reach18	2369	10 Year	DonPhaselI_Final_Baseline	0.42	238.71	239.04	238.95	239.07	0.006169	0.76	0.55	2.69	0.54
Reach18	2369	10 Year	DonPhaselI_Final_Proposed	0.42	238.71	239.04	238.95	239.07	0.006169	0.76	0.55	2.69	0.54
Reach18	2369	5 Year	DonPhaselI_Final_Baseline	0.37	238.71	239.02	238.94	239.05	0.006072	0.73	0.51	2.60	0.53
Reach18	2369	5 Year	DonPhaselI_Final_Proposed	0.37	238.71	239.02	238.94	239.05	0.006072	0.73	0.51	2.60	0.53
Reach18	2369	2 Year	DonPhaselI_Final_Baseline	0.29	238.71	238.99	238.91	239.01	0.005766	0.67	0.43	2.45	0.51
Reach18	2369	2 Year	DonPhaselI_Final_Proposed	0.29	238.71	238.99	238.91	239.01	0.005766	0.67	0.43	2.45	0.51
Reach18	2322.1	Regional	DonPhaselI_Final_Baseline	49.03	238.25	239.94	239.94	240.28	0.010289	3.69	31.65	42.84	0.97
Reach18	2322.1	Regional	DonPhaselI_Final_Proposed	49.03	238.25	239.94	239.94	240.28	0.010289	3.69	31.65	42.84	0.97
Reach18	2322.1	350 Year	DonPhaselI_Final_Baseline	5.23	238.25	238.92	238.92	239.09	0.015948	2.11	3.81	11.30	0.99
Reach18	2322.1	350 Year	DonPhaselI_Final_Proposed	5.23	238.25	238.92	238.92	239.09	0.015948	2.11	3.81	11.30	0.99
Reach18	2322.1	1.3*100 Year	DonPhaselI_Final_Baseline	1.00	238.25	238.59	238.59	238.69	0.019077	1.47	0.73	4.35	0.97
Reach18	2322.1	1.3*100 Year	DonPhaselI_Final_Proposed	1.00	238.25	238.59	238.59	238.69	0.019077	1.47	0.73	4.35	0.97
Reach18	2322.1	100 Year	DonPhaselI_Final_Baseline	0.77	238.25	238.54	238.54	238.64	0.020805	1.38	0.57	3.45	0.99
Reach18	2322.1	100 Year	DonPhaselI_Final_Proposed	0.77	238.25	238.54	238.54	238.64	0.020805	1.38	0.57	3.45	0.99
Reach18	2322.1	50 Year	DonPhaselI_Final_Baseline	0.59	238.25	238.51	238.51	238.59	0.022735	1.30	0.46	2.89	1.01
Reach18	2322.1	50 Year	DonPhaselI_Final_Proposed	0.59	238.25	238.51	238.51	238.59	0.022735	1.30	0.46	2.89	1.01
Reach18	2322.1	25 Year	DonPhaselI_Final_Baseline	0.49	238.25	238.49	238.49	238.56	0.023619	1.23	0.40	2.60	1.01
Reach18	2322.1	25 Year	DonPhaselI_Final_Proposed	0.49	238.25	238.49	238.49	238.56	0.023619	1.23	0.40	2.60	1.01
Reach18	2322.1	10 Year	DonPhaselI_Final_Baseline	0.43	238.25	238.47	238.47	238.54	0.024133	1.20	0.36	2.49	1.01
Reach18	2322.1	10 Year	DonPhaselI_Final_Proposed	0.43	238.25	238.47	238.47	238.54	0.024133	1.20	0.36	2.49	1.01
Reach18	2322.1	5 Year	DonPhaselI_Final_Baseline	0.38	238.25	238.46	238.46	238.53	0.024564	1.17	0.33	2.39	1.01
Reach18	2322.1	5 Year	DonPhaselI_Final_Proposed	0.38	238.25	238.46	238.46	238.53	0.024564	1.17	0.33	2.39	1.01
Reach18	2322.1	2 Year	DonPhaselI_Final_Baseline	0.31	238.25	238.44	238.44	238.50	0.025094	1.11	0.28	2.24	1.01
Reach18	2322.1	2 Year	DonPhaselI_Final_Proposed	0.31	238.25	238.44	238.44	238.50	0.025094	1.11	0.28	2.24	1.01
Reach18	2284	Regional	DonPhaselI_Final_Baseline	49.03	237.55	239.33		239.56	0.006537	3.07	39.82	47.05	0.78
Reach18	2284	Regional	DonPhaselI_Final_Proposed	49.03	237.55	239.33		239.56	0.006537	3.07	39.82	47.05	0.78
Reach18	2284	350 Year	DonPhaselI_Final_Baseline	5.23	237.55	238.34	238.29	238.46	0.007979	1.72	4.90	16.45	0.73
Reach18	2284	350 Year	DonPhaselI_Final_Proposed	5.23	237.55	238.34	238.29	238.46	0.007979	1.72	4.90	16.45	0.73
Reach18	2284	1.3*100 Year	DonPhaselI_Final_Baseline	1.00	237.55	237.99		238.04	0.006100	0.94	1.22	5.74	0.57

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	2284	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	237.55	237.99		238.04	0.006100	0.94	1.22	5.74	0.57
Reach18	2284	100 Year	DonPhaseII_Final_Baseline	0.77	237.55	237.95		237.99	0.005837	0.86	1.00	5.18	0.55
Reach18	2284	100 Year	DonPhaseII_Final_Proposed	0.77	237.55	237.95		237.99	0.005837	0.86	1.00	5.18	0.55
Reach18	2284	50 Year	DonPhaseII_Final_Baseline	0.59	237.55	237.91		237.94	0.005586	0.78	0.81	4.64	0.53
Reach18	2284	50 Year	DonPhaseII_Final_Proposed	0.59	237.55	237.91		237.94	0.005586	0.78	0.81	4.64	0.53
Reach18	2284	25 Year	DonPhaseII_Final_Baseline	0.49	237.55	237.89		237.92	0.005491	0.73	0.70	4.17	0.51
Reach18	2284	25 Year	DonPhaseII_Final_Proposed	0.49	237.55	237.89		237.92	0.005491	0.73	0.70	4.17	0.51
Reach18	2284	10 Year	DonPhaseII_Final_Baseline	0.43	237.55	237.87		237.90	0.005344	0.70	0.64	3.88	0.50
Reach18	2284	10 Year	DonPhaseII_Final_Proposed	0.43	237.55	237.87		237.90	0.005344	0.70	0.64	3.88	0.50
Reach18	2284	5 Year	DonPhaseII_Final_Baseline	0.38	237.55	237.86		237.88	0.005277	0.67	0.59	3.60	0.49
Reach18	2284	5 Year	DonPhaseII_Final_Proposed	0.38	237.55	237.86		237.88	0.005277	0.67	0.59	3.60	0.49
Reach18	2284	2 Year	DonPhaseII_Final_Baseline	0.31	237.55	237.84		237.86	0.005156	0.62	0.51	3.29	0.48
Reach18	2284	2 Year	DonPhaseII_Final_Proposed	0.31	237.55	237.84		237.86	0.005156	0.62	0.51	3.29	0.48
Reach18	2233.93	Regional	DonPhaseII_Final_Baseline	49.03	237.10	238.90	238.90	239.27	0.007255	3.30	32.88	47.64	0.83
Reach18	2233.93	Regional	DonPhaseII_Final_Proposed	49.03	237.10	238.90	238.90	239.27	0.007255	3.30	32.88	47.64	0.83
Reach18	2233.93	350 Year	DonPhaseII_Final_Baseline	5.23	237.10	237.73	237.73	237.94	0.015644	2.02	2.76	7.83	0.98
Reach18	2233.93	350 Year	DonPhaseII_Final_Proposed	5.23	237.10	237.73	237.73	237.94	0.015644	2.02	2.76	7.83	0.98
Reach18	2233.93	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	237.10	237.43	237.43	237.51	0.022878	1.28	0.78	4.78	1.01
Reach18	2233.93	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	237.10	237.43	237.43	237.51	0.022878	1.28	0.78	4.78	1.01
Reach18	2233.93	100 Year	DonPhaseII_Final_Baseline	0.77	237.10	237.39	237.39	237.47	0.023729	1.22	0.63	4.29	1.01
Reach18	2233.93	100 Year	DonPhaseII_Final_Proposed	0.77	237.10	237.39	237.39	237.47	0.023729	1.22	0.63	4.29	1.01
Reach18	2233.93	50 Year	DonPhaseII_Final_Baseline	0.59	237.10	237.36	237.36	237.43	0.024527	1.16	0.51	3.85	1.01
Reach18	2233.93	50 Year	DonPhaseII_Final_Proposed	0.59	237.10	237.36	237.36	237.43	0.024527	1.16	0.51	3.85	1.01
Reach18	2233.93	25 Year	DonPhaseII_Final_Baseline	0.49	237.10	237.35	237.35	237.41	0.024933	1.11	0.44	3.58	1.01
Reach18	2233.93	25 Year	DonPhaseII_Final_Proposed	0.49	237.10	237.35	237.35	237.41	0.024933	1.11	0.44	3.58	1.01
Reach18	2233.93	10 Year	DonPhaseII_Final_Baseline	0.43	237.10	237.33	237.33	237.39	0.025597	1.09	0.40	3.40	1.01
Reach18	2233.93	10 Year	DonPhaseII_Final_Proposed	0.43	237.10	237.33	237.33	237.39	0.025597	1.09	0.40	3.40	1.01
Reach18	2233.93	5 Year	DonPhaseII_Final_Baseline	0.38	237.10	237.32	237.32	237.38	0.025949	1.06	0.36	3.23	1.01
Reach18	2233.93	5 Year	DonPhaseII_Final_Proposed	0.38	237.10	237.32	237.32	237.38	0.025949	1.06	0.36	3.23	1.01
Reach18	2233.93	2 Year	DonPhaseII_Final_Baseline	0.31	237.10	237.30	237.30	237.36	0.026657	1.02	0.31	2.98	1.01
Reach18	2233.93	2 Year	DonPhaseII_Final_Proposed	0.31	237.10	237.30	237.30	237.36	0.026657	1.02	0.31	2.98	1.01
Reach18	2200	Regional	DonPhaseII_Final_Baseline	49.03	236.37	238.55		238.69	0.002660	2.20	48.72	45.67	0.51
Reach18	2200	Regional	DonPhaseII_Final_Proposed	49.03	236.37	238.55		238.69	0.002660	2.20	48.72	45.67	0.51
Reach18	2200	350 Year	DonPhaseII_Final_Baseline	5.23	236.37	237.18	237.10	237.28	0.006888	1.48	4.84	18.48	0.66
Reach18	2200	350 Year	DonPhaseII_Final_Proposed	5.23	236.37	237.18	237.10	237.28	0.006888	1.48	4.84	18.48	0.66
Reach18	2200	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	236.37	236.78		236.84	0.008717	1.07	0.93	3.53	0.67
Reach18	2200	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	236.37	236.78		236.84	0.008717	1.07	0.93	3.53	0.67
Reach18	2200	100 Year	DonPhaseII_Final_Baseline	0.77	236.37	236.73		236.78	0.008482	0.99	0.78	3.24	0.65
Reach18	2200	100 Year	DonPhaseII_Final_Proposed	0.77	236.37	236.73		236.78	0.008482	0.99	0.78	3.24	0.65
Reach18	2200	50 Year	DonPhaseII_Final_Baseline	0.59	236.37	236.70		236.74	0.007950	0.90	0.66	3.02	0.62
Reach18	2200	50 Year	DonPhaseII_Final_Proposed	0.59	236.37	236.70		236.74	0.007950	0.90	0.66	3.02	0.62
Reach18	2200	25 Year	DonPhaseII_Final_Baseline	0.49	236.37	236.67		236.71	0.007530	0.84	0.58	2.89	0.59
Reach18	2200	25 Year	DonPhaseII_Final_Proposed	0.49	236.37	236.67		236.71	0.007530	0.84	0.58	2.89	0.59
Reach18	2200	10 Year	DonPhaseII_Final_Baseline	0.43	236.37	236.66		236.69	0.007300	0.80	0.54	2.80	0.58
Reach18	2200	10 Year	DonPhaseII_Final_Proposed	0.43	236.37	236.66		236.69	0.007300	0.80	0.54	2.80	0.58
Reach18	2200	5 Year	DonPhaseII_Final_Baseline	0.38	236.37	236.64		236.67	0.007100	0.76	0.50	2.72	0.57
Reach18	2200	5 Year	DonPhaseII_Final_Proposed	0.38	236.37	236.64		236.67	0.007100	0.76	0.50	2.72	0.57

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	2200	2 Year	DonPhaseII_Final_Baseline	0.31	236.37	236.62		236.64	0.006743	0.71	0.44	2.59	0.55
Reach18	2200	2 Year	DonPhaseII_Final_Proposed	0.31	236.37	236.62		236.64	0.006743	0.71	0.44	2.59	0.55
Reach18	2158.21	Regional	DonPhaseII_Final_Baseline	49.03	236.14	237.67	237.67	238.42	0.022639	5.41	20.32	22.15	1.45
Reach18	2158.21	Regional	DonPhaseII_Final_Proposed	49.03	236.14	237.67	237.67	238.42	0.022639	5.41	20.32	22.15	1.45
Reach18	2158.21	350 Year	DonPhaseII_Final_Baseline	5.23	236.14	236.81	236.77	236.95	0.010660	2.01	4.91	13.95	0.85
Reach18	2158.21	350 Year	DonPhaseII_Final_Proposed	5.23	236.14	236.81	236.77	236.95	0.010660	2.01	4.91	13.95	0.85
Reach18	2158.21	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	236.14	236.54	236.45	236.57	0.005027	0.89	1.77	8.90	0.52
Reach18	2158.21	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	236.14	236.54	236.45	236.57	0.005027	0.89	1.77	8.90	0.52
Reach18	2158.21	100 Year	DonPhaseII_Final_Baseline	0.77	236.14	236.51	236.42	236.53	0.004598	0.79	1.50	8.35	0.49
Reach18	2158.21	100 Year	DonPhaseII_Final_Proposed	0.77	236.14	236.51	236.42	236.53	0.004598	0.79	1.50	8.35	0.49
Reach18	2158.21	50 Year	DonPhaseII_Final_Baseline	0.59	236.14	236.47	236.39	236.49	0.004448	0.71	1.24	7.80	0.47
Reach18	2158.21	50 Year	DonPhaseII_Final_Proposed	0.59	236.14	236.47	236.39	236.49	0.004448	0.71	1.24	7.80	0.47
Reach18	2158.21	25 Year	DonPhaseII_Final_Baseline	0.49	236.14	236.45	236.38	236.47	0.004469	0.67	1.07	7.43	0.47
Reach18	2158.21	25 Year	DonPhaseII_Final_Proposed	0.49	236.14	236.45	236.38	236.47	0.004469	0.67	1.07	7.43	0.47
Reach18	2158.21	10 Year	DonPhaseII_Final_Baseline	0.43	236.14	236.44	236.37	236.46	0.004428	0.64	0.97	7.20	0.46
Reach18	2158.21	10 Year	DonPhaseII_Final_Proposed	0.43	236.14	236.44	236.37	236.46	0.004428	0.64	0.97	7.20	0.46
Reach18	2158.21	5 Year	DonPhaseII_Final_Baseline	0.38	236.14	236.43	236.36	236.44	0.004390	0.61	0.89	6.96	0.45
Reach18	2158.21	5 Year	DonPhaseII_Final_Proposed	0.38	236.14	236.43	236.36	236.44	0.004390	0.61	0.89	6.96	0.45
Reach18	2158.21	2 Year	DonPhaseII_Final_Baseline	0.31	236.14	236.41	236.34	236.42	0.004426	0.57	0.76	6.48	0.45
Reach18	2158.21	2 Year	DonPhaseII_Final_Proposed	0.31	236.14	236.41	236.34	236.42	0.004426	0.57	0.76	6.48	0.45
Reach18	2112.23	Regional	DonPhaseII_Final_Baseline	49.03	235.80	236.95	236.95	237.30	0.021063	4.30	26.92	35.25	1.33
Reach18	2112.23	Regional	DonPhaseII_Final_Proposed	49.03	235.80	236.95	236.95	237.30	0.021063	4.30	26.92	35.25	1.33
Reach18	2112.23	350 Year	DonPhaseII_Final_Baseline	5.23	235.80	236.36	236.36	236.46	0.011211	1.84	7.18	31.82	0.85
Reach18	2112.23	350 Year	DonPhaseII_Final_Proposed	5.23	235.80	236.36	236.36	236.46	0.011211	1.84	7.18	31.82	0.85
Reach18	2112.23	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	235.80	236.11	236.11	236.19	0.015873	1.33	1.01	9.52	0.89
Reach18	2112.23	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	235.80	236.11	236.11	236.19	0.015873	1.33	1.01	9.52	0.89
Reach18	2112.23	100 Year	DonPhaseII_Final_Baseline	0.77	235.80	236.07	236.07	236.15	0.019153	1.33	0.69	5.71	0.96
Reach18	2112.23	100 Year	DonPhaseII_Final_Proposed	0.77	235.80	236.07	236.07	236.15	0.019153	1.33	0.69	5.71	0.96
Reach18	2112.23	50 Year	DonPhaseII_Final_Baseline	0.59	235.80	236.03	236.03	236.11	0.021705	1.27	0.52	3.57	0.99
Reach18	2112.23	50 Year	DonPhaseII_Final_Proposed	0.59	235.80	236.03	236.03	236.11	0.021705	1.27	0.52	3.57	0.99
Reach18	2112.23	25 Year	DonPhaseII_Final_Baseline	0.49	235.80	236.01	236.01	236.08	0.022066	1.21	0.45	3.38	0.99
Reach18	2112.23	25 Year	DonPhaseII_Final_Proposed	0.49	235.80	236.01	236.01	236.08	0.022066	1.21	0.45	3.38	0.99
Reach18	2112.23	10 Year	DonPhaseII_Final_Baseline	0.43	235.80	235.99	235.99	236.06	0.022972	1.17	0.40	3.24	0.99
Reach18	2112.23	10 Year	DonPhaseII_Final_Proposed	0.43	235.80	235.99	235.99	236.06	0.022972	1.17	0.40	3.24	0.99
Reach18	2112.23	5 Year	DonPhaseII_Final_Baseline	0.38	235.80	235.98	235.98	236.04	0.023780	1.14	0.36	3.12	1.00
Reach18	2112.23	5 Year	DonPhaseII_Final_Proposed	0.38	235.80	235.98	235.98	236.04	0.023780	1.14	0.36	3.12	1.00
Reach18	2112.23	2 Year	DonPhaseII_Final_Baseline	0.31	235.80	235.96	235.96	236.02	0.024160	1.07	0.31	2.96	0.99
Reach18	2112.23	2 Year	DonPhaseII_Final_Proposed	0.31	235.80	235.96	235.96	236.02	0.024160	1.07	0.31	2.96	0.99
Reach18	2000.54	Regional	DonPhaseII_Final_Baseline	49.03	235.49	236.97		236.99	0.000336	0.66	77.14	60.45	0.18
Reach18	2000.54	Regional	DonPhaseII_Final_Proposed	49.03	235.49	236.97		236.99	0.000336	0.66	77.14	60.45	0.18
Reach18	2000.54	350 Year	DonPhaseII_Final_Baseline	5.23	235.49	236.29		236.29	0.000036	0.14	38.06	54.40	0.05
Reach18	2000.54	350 Year	DonPhaseII_Final_Proposed	5.23	235.49	236.29		236.29	0.000036	0.14	38.06	54.40	0.05
Reach18	2000.54	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	235.49	235.96		235.96	0.000009	0.05	20.99	51.48	0.02
Reach18	2000.54	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	235.49	235.96		235.96	0.000009	0.05	20.99	51.48	0.02
Reach18	2000.54	100 Year	DonPhaseII_Final_Baseline	0.77	235.49	235.87		235.87	0.000013	0.05	16.12	50.55	0.03
Reach18	2000.54	100 Year	DonPhaseII_Final_Proposed	0.77	235.49	235.87		235.87	0.000013	0.05	16.12	50.55	0.03

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	2000.54	50 Year	DonPhaselI_Final_Baseline	0.59	235.49	235.80		235.80	0.000016	0.05	12.77	49.89	0.03
Reach18	2000.54	50 Year	DonPhaselI_Final_Proposed	0.59	235.49	235.80		235.80	0.000016	0.05	12.77	49.89	0.03
Reach18	2000.54	25 Year	DonPhaselI_Final_Baseline	0.49	235.49	235.77		235.77	0.000017	0.04	11.06	49.54	0.03
Reach18	2000.54	25 Year	DonPhaselI_Final_Proposed	0.49	235.49	235.77		235.77	0.000017	0.04	11.06	49.54	0.03
Reach18	2000.54	10 Year	DonPhaselI_Final_Baseline	0.43	235.49	235.76		235.76	0.000016	0.04	10.58	49.44	0.03
Reach18	2000.54	10 Year	DonPhaselI_Final_Proposed	0.43	235.49	235.76		235.76	0.000016	0.04	10.58	49.44	0.03
Reach18	2000.54	5 Year	DonPhaselI_Final_Baseline	0.38	235.49	235.74		235.74	0.000015	0.04	9.83	49.26	0.03
Reach18	2000.54	5 Year	DonPhaselI_Final_Proposed	0.38	235.49	235.74		235.74	0.000015	0.04	9.83	49.26	0.03
Reach18	2000.54	2 Year	DonPhaselI_Final_Baseline	0.31	235.49	235.72		235.72	0.000015	0.04	8.74	49.00	0.03
Reach18	2000.54	2 Year	DonPhaselI_Final_Proposed	0.31	235.49	235.72		235.72	0.000015	0.04	8.74	49.00	0.03
Reach18	1995.13	Regional	DonPhaselI_Final_Baseline	49.03	235.49	236.95	236.22	236.98	0.000597	0.87	58.79	61.43	0.24
Reach18	1995.13	Regional	DonPhaselI_Final_Proposed	49.03	235.49	236.95	236.22	236.98	0.000597	0.87	58.79	61.43	0.24
Reach18	1995.13	350 Year	DonPhaselI_Final_Baseline	5.23	235.49	236.28	235.95	236.29	0.000081	0.21	25.40	42.03	0.08
Reach18	1995.13	350 Year	DonPhaselI_Final_Proposed	5.23	235.49	236.28	235.95	236.29	0.000081	0.21	25.40	42.03	0.08
Reach18	1995.13	1.3*100 Year	DonPhaselI_Final_Baseline	1.00	235.49	235.96	235.67	235.96	0.000555	0.38	2.67	37.09	0.19
Reach18	1995.13	1.3*100 Year	DonPhaselI_Final_Proposed	1.00	235.49	235.96	235.67	235.96	0.000555	0.38	2.67	37.09	0.19
Reach18	1995.13	100 Year	DonPhaselI_Final_Baseline	0.77	235.49	235.86	235.65	235.87	0.000780	0.37	2.06	34.75	0.21
Reach18	1995.13	100 Year	DonPhaselI_Final_Proposed	0.77	235.49	235.86	235.65	235.87	0.000780	0.37	2.06	34.75	0.21
Reach18	1995.13	50 Year	DonPhaselI_Final_Baseline	0.59	235.49	235.79	235.63	235.80	0.000984	0.36	1.63	32.28	0.23
Reach18	1995.13	50 Year	DonPhaselI_Final_Proposed	0.59	235.49	235.79	235.63	235.80	0.000984	0.36	1.63	32.28	0.23
Reach18	1995.13	25 Year	DonPhaselI_Final_Baseline	0.49	235.49	235.76	235.62	235.77	0.001087	0.35	1.42	30.91	0.23
Reach18	1995.13	25 Year	DonPhaselI_Final_Proposed	0.49	235.49	235.76	235.62	235.77	0.001087	0.35	1.42	30.91	0.23
Reach18	1995.13	10 Year	DonPhaselI_Final_Baseline	0.43	235.49	235.75	235.62	235.76	0.000951	0.31	1.37	30.64	0.22
Reach18	1995.13	10 Year	DonPhaselI_Final_Proposed	0.43	235.49	235.75	235.62	235.76	0.000951	0.31	1.37	30.64	0.22
Reach18	1995.13	5 Year	DonPhaselI_Final_Baseline	0.38	235.49	235.74	235.61	235.74	0.000943	0.30	1.27	30.31	0.21
Reach18	1995.13	5 Year	DonPhaselI_Final_Proposed	0.38	235.49	235.74	235.61	235.74	0.000943	0.30	1.27	30.31	0.21
Reach18	1995.13	2 Year	DonPhaselI_Final_Baseline	0.31	235.49	235.72	235.60	235.72	0.000912	0.27	1.14	29.86	0.21
Reach18	1995.13	2 Year	DonPhaselI_Final_Proposed	0.31	235.49	235.72	235.60	235.72	0.000912	0.27	1.14	29.86	0.21
Reach18	1988.91			Culvert									
Reach18	1977	Regional	DonPhaselI_Final_Baseline	49.03	235.54	236.81	236.62	236.91	0.004753	1.55	36.01	54.80	0.47
Reach18	1977	Regional	DonPhaselI_Final_Proposed	49.03	235.54	236.81	236.62	236.91	0.004753	1.55	36.01	54.80	0.47
Reach18	1977	350 Year	DonPhaselI_Final_Baseline	5.23	235.54	236.06	236.06	236.20	0.016795	1.64	3.60	17.87	0.89
Reach18	1977	350 Year	DonPhaselI_Final_Proposed	5.23	235.54	236.06	236.06	236.20	0.016795	1.64	3.60	17.87	0.89
Reach18	1977	1.3*100 Year	DonPhaselI_Final_Baseline	1.00	235.54	235.83	235.77	235.87	0.007127	0.82	1.21	6.48	0.61
Reach18	1977	1.3*100 Year	DonPhaselI_Final_Proposed	1.00	235.54	235.83	235.77	235.87	0.007127	0.82	1.21	6.48	0.61
Reach18	1977	100 Year	DonPhaselI_Final_Baseline	0.77	235.54	235.79	235.74	235.82	0.008410	0.82	0.94	5.79	0.65
Reach18	1977	100 Year	DonPhaselI_Final_Proposed	0.77	235.54	235.79	235.74	235.82	0.008410	0.82	0.94	5.79	0.65
Reach18	1977	50 Year	DonPhaselI_Final_Baseline	0.59	235.54	235.75	235.71	235.78	0.009939	0.81	0.73	5.28	0.69
Reach18	1977	50 Year	DonPhaselI_Final_Proposed	0.59	235.54	235.75	235.71	235.78	0.009939	0.81	0.73	5.28	0.69
Reach18	1977	25 Year	DonPhaselI_Final_Baseline	0.49	235.54	235.73	235.70	235.76	0.010788	0.79	0.62	4.99	0.71
Reach18	1977	25 Year	DonPhaselI_Final_Proposed	0.49	235.54	235.73	235.70	235.76	0.010788	0.79	0.62	4.99	0.71
Reach18	1977	10 Year	DonPhaselI_Final_Baseline	0.43	235.54	235.71	235.69	235.74	0.012273	0.79	0.55	4.77	0.74
Reach18	1977	10 Year	DonPhaselI_Final_Proposed	0.43	235.54	235.71	235.69	235.74	0.012273	0.79	0.55	4.77	0.74
Reach18	1977	5 Year	DonPhaselI_Final_Baseline	0.38	235.54	235.70	235.68	235.73	0.013111	0.77	0.49	4.61	0.76
Reach18	1977	5 Year	DonPhaselI_Final_Proposed	0.38	235.54	235.70	235.68	235.73	0.013111	0.77	0.49	4.61	0.76
Reach18	1977	2 Year	DonPhaselI_Final_Baseline	0.31	235.54	235.68	235.67	235.71	0.014354	0.74	0.42	4.38	0.77

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	1977	2 Year	DonPhaselI_Final_Proposed	0.31	235.54	235.68	235.67	235.71	0.014354	0.74	0.42	4.38	0.77
Reach18	1971.95	Regional	DonPhaselI_Final_Baseline	49.03	235.36	236.78	236.51	236.88	0.004692	2.28	44.29	55.65	0.64
Reach18	1971.95	Regional	DonPhaselI_Final_Proposed	49.03	235.36	236.78	236.51	236.88	0.004692	2.28	44.29	55.65	0.64
Reach18	1971.95	350 Year	DonPhaselI_Final_Baseline	5.23	235.36	235.99	235.99	236.09	0.010777	1.82	6.70	31.93	0.83
Reach18	1971.95	350 Year	DonPhaselI_Final_Proposed	5.23	235.36	235.99	235.99	236.09	0.010777	1.82	6.70	31.93	0.83
Reach18	1971.95	1.3*100 Year	DonPhaselI_Final_Baseline	1.00	235.36	235.69	235.69	235.79	0.019548	1.48	0.87	4.66	0.99
Reach18	1971.95	1.3*100 Year	DonPhaselI_Final_Proposed	1.00	235.36	235.69	235.69	235.79	0.019548	1.48	0.87	4.66	0.99
Reach18	1971.95	100 Year	DonPhaselI_Final_Baseline	0.77	235.36	235.65	235.65	235.74	0.020021	1.38	0.70	4.33	0.98
Reach18	1971.95	100 Year	DonPhaselI_Final_Proposed	0.77	235.36	235.65	235.65	235.74	0.020021	1.38	0.70	4.33	0.98
Reach18	1971.95	50 Year	DonPhaselI_Final_Baseline	0.59	235.36	235.62	235.62	235.70	0.020746	1.28	0.56	4.00	0.97
Reach18	1971.95	50 Year	DonPhaselI_Final_Proposed	0.59	235.36	235.62	235.62	235.70	0.020746	1.28	0.56	4.00	0.97
Reach18	1971.95	25 Year	DonPhaselI_Final_Baseline	0.49	235.36	235.60	235.60	235.67	0.021887	1.23	0.48	3.78	0.98
Reach18	1971.95	25 Year	DonPhaselI_Final_Proposed	0.49	235.36	235.60	235.60	235.67	0.021887	1.23	0.48	3.78	0.98
Reach18	1971.95	10 Year	DonPhaselI_Final_Baseline	0.43	235.36	235.59	235.59	235.65	0.021161	1.17	0.44	3.67	0.96
Reach18	1971.95	10 Year	DonPhaselI_Final_Proposed	0.43	235.36	235.59	235.59	235.65	0.021161	1.17	0.44	3.67	0.96
Reach18	1971.95	5 Year	DonPhaselI_Final_Baseline	0.38	235.36	235.58	235.58	235.64	0.021622	1.13	0.39	3.55	0.96
Reach18	1971.95	5 Year	DonPhaselI_Final_Proposed	0.38	235.36	235.58	235.58	235.64	0.021622	1.13	0.39	3.55	0.96
Reach18	1971.95	2 Year	DonPhaselI_Final_Baseline	0.31	235.36	235.56	235.56	235.61	0.022740	1.08	0.33	3.36	0.97
Reach18	1971.95	2 Year	DonPhaselI_Final_Proposed	0.31	235.36	235.56	235.56	235.61	0.022740	1.08	0.33	3.36	0.97
Reach18	1938.68	Regional	DonPhaselI_Final_Baseline	49.03	234.47	236.72		236.81	0.001794	2.03	50.39	39.98	0.44
Reach18	1938.68	Regional	DonPhaselI_Final_Proposed	49.03	234.47	236.72		236.81	0.001794	2.03	50.39	39.98	0.44
Reach18	1938.68	350 Year	DonPhaselI_Final_Baseline	5.23	234.47	235.92		235.93	0.000306	0.62	20.31	34.78	0.17
Reach18	1938.68	350 Year	DonPhaselI_Final_Proposed	5.23	234.47	235.92		235.93	0.000306	0.62	20.31	34.78	0.17
Reach18	1938.68	1.3*100 Year	DonPhaselI_Final_Baseline	1.00	234.47	235.05		235.07	0.000973	0.57	2.42	7.10	0.25
Reach18	1938.68	1.3*100 Year	DonPhaselI_Final_Proposed	1.00	234.47	235.05		235.07	0.000973	0.57	2.42	7.10	0.25
Reach18	1938.68	100 Year	DonPhaselI_Final_Baseline	0.77	234.47	234.97		234.99	0.001092	0.54	1.86	6.26	0.26
Reach18	1938.68	100 Year	DonPhaselI_Final_Proposed	0.77	234.47	234.97		234.99	0.001092	0.54	1.86	6.26	0.26
Reach18	1938.68	50 Year	DonPhaselI_Final_Baseline	0.59	234.47	234.90		234.92	0.001187	0.50	1.46	5.56	0.26
Reach18	1938.68	50 Year	DonPhaselI_Final_Proposed	0.59	234.47	234.90		234.92	0.001187	0.50	1.46	5.56	0.26
Reach18	1938.68	25 Year	DonPhaselI_Final_Baseline	0.49	234.47	234.86		234.87	0.001227	0.47	1.25	5.19	0.26
Reach18	1938.68	25 Year	DonPhaselI_Final_Proposed	0.49	234.47	234.86		234.87	0.001227	0.47	1.25	5.19	0.26
Reach18	1938.68	10 Year	DonPhaselI_Final_Baseline	0.43	234.47	234.84		234.85	0.001242	0.45	1.12	4.95	0.26
Reach18	1938.68	10 Year	DonPhaselI_Final_Proposed	0.43	234.47	234.84		234.85	0.001242	0.45	1.12	4.95	0.26
Reach18	1938.68	5 Year	DonPhaselI_Final_Baseline	0.38	234.47	234.82		234.83	0.001254	0.43	1.02	4.75	0.26
Reach18	1938.68	5 Year	DonPhaselI_Final_Proposed	0.38	234.47	234.82		234.83	0.001254	0.43	1.02	4.75	0.26
Reach18	1938.68	2 Year	DonPhaselI_Final_Baseline	0.31	234.47	234.79		234.79	0.001267	0.40	0.87	4.45	0.26
Reach18	1938.68	2 Year	DonPhaselI_Final_Proposed	0.31	234.47	234.79		234.79	0.001267	0.40	0.87	4.45	0.26
Reach18	1917.69	Regional	DonPhaselI_Final_Baseline	49.03	234.42	236.74		236.77	0.000521	1.10	67.03	46.26	0.24
Reach18	1917.69	Regional	DonPhaselI_Final_Proposed	49.03	234.42	236.74		236.77	0.000521	1.10	67.03	46.26	0.24
Reach18	1917.69	350 Year	DonPhaselI_Final_Baseline	5.23	234.42	235.93		235.93	0.000055	0.26	31.46	40.56	0.07
Reach18	1917.69	350 Year	DonPhaselI_Final_Proposed	5.23	234.42	235.93		235.93	0.000055	0.26	31.46	40.56	0.07
Reach18	1917.69	1.3*100 Year	DonPhaselI_Final_Baseline	1.00	234.42	235.05		235.06	0.000238	0.29	4.41	14.79	0.13
Reach18	1917.69	1.3*100 Year	DonPhaselI_Final_Proposed	1.00	234.42	235.05		235.06	0.000238	0.29	4.41	14.79	0.13
Reach18	1917.69	100 Year	DonPhaselI_Final_Baseline	0.77	234.42	234.97		234.97	0.000336	0.30	3.23	12.65	0.15
Reach18	1917.69	100 Year	DonPhaselI_Final_Proposed	0.77	234.42	234.97		234.97	0.000336	0.30	3.23	12.65	0.15
Reach18	1917.69	50 Year	DonPhaselI_Final_Baseline	0.59	234.42	234.89		234.90	0.000451	0.31	2.37	11.21	0.16

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	1917.69	50 Year	DonPhaseII_Final_Proposed	0.59	234.42	234.89		234.90	0.000451	0.31	2.37	11.21	0.16
Reach18	1917.69	25 Year	DonPhaseII_Final_Baseline	0.49	234.42	234.85		234.86	0.000544	0.31	1.91	10.41	0.18
Reach18	1917.69	25 Year	DonPhaseII_Final_Proposed	0.49	234.42	234.85		234.86	0.000544	0.31	1.91	10.41	0.18
Reach18	1917.69	10 Year	DonPhaseII_Final_Baseline	0.43	234.42	234.83		234.83	0.000615	0.32	1.64	9.91	0.18
Reach18	1917.69	10 Year	DonPhaseII_Final_Proposed	0.43	234.42	234.83		234.83	0.000615	0.32	1.64	9.91	0.18
Reach18	1917.69	5 Year	DonPhaseII_Final_Baseline	0.38	234.42	234.80		234.81	0.000672	0.31	1.42	8.90	0.19
Reach18	1917.69	5 Year	DonPhaseII_Final_Proposed	0.38	234.42	234.80		234.81	0.000672	0.31	1.42	8.90	0.19
Reach18	1917.69	2 Year	DonPhaseII_Final_Baseline	0.31	234.42	234.77		234.77	0.000726	0.30	1.16	7.13	0.19
Reach18	1917.69	2 Year	DonPhaseII_Final_Proposed	0.31	234.42	234.77		234.77	0.000726	0.30	1.16	7.13	0.19
Reach18	1907.73	Regional	DonPhaseII_Final_Baseline	49.03	234.50	236.72	235.88	236.76	0.000651	1.20	70.37	49.82	0.26
Reach18	1907.73	Regional	DonPhaseII_Final_Proposed	49.03	234.50	236.72	235.88	236.76	0.000651	1.20	70.37	49.82	0.26
Reach18	1907.73	350 Year	DonPhaseII_Final_Baseline	5.23	234.50	235.92	235.12	235.93	0.000114	0.37	28.04	43.53	0.10
Reach18	1907.73	350 Year	DonPhaseII_Final_Proposed	5.23	234.50	235.92	235.12	235.93	0.000114	0.37	28.04	43.53	0.10
Reach18	1907.73	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	234.50	235.04	234.80	235.05	0.000937	0.52	2.75	19.12	0.24
Reach18	1907.73	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	234.50	235.04	234.80	235.05	0.000937	0.52	2.75	19.12	0.24
Reach18	1907.73	100 Year	DonPhaseII_Final_Baseline	0.77	234.50	234.95	234.78	234.96	0.001402	0.55	1.98	14.83	0.29
Reach18	1907.73	100 Year	DonPhaseII_Final_Proposed	0.77	234.50	234.95	234.78	234.96	0.001402	0.55	1.98	14.83	0.29
Reach18	1907.73	50 Year	DonPhaseII_Final_Baseline	0.59	234.50	234.87	234.74	234.89	0.002254	0.59	1.35	12.20	0.35
Reach18	1907.73	50 Year	DonPhaseII_Final_Proposed	0.59	234.50	234.87	234.74	234.89	0.002254	0.59	1.35	12.20	0.35
Reach18	1907.73	25 Year	DonPhaseII_Final_Baseline	0.49	234.50	234.82	234.72	234.84	0.003333	0.64	0.98	9.89	0.41
Reach18	1907.73	25 Year	DonPhaseII_Final_Proposed	0.49	234.50	234.82	234.72	234.84	0.003333	0.64	0.98	9.89	0.41
Reach18	1907.73	10 Year	DonPhaseII_Final_Baseline	0.43	234.50	234.79	234.71	234.81	0.004283	0.66	0.76	6.97	0.46
Reach18	1907.73	10 Year	DonPhaseII_Final_Proposed	0.43	234.50	234.79	234.71	234.81	0.004283	0.66	0.76	6.97	0.46
Reach18	1907.73	5 Year	DonPhaseII_Final_Baseline	0.38	234.50	234.76	234.70	234.79	0.005496	0.68	0.62	4.55	0.51
Reach18	1907.73	5 Year	DonPhaseII_Final_Proposed	0.38	234.50	234.76	234.70	234.79	0.005496	0.68	0.62	4.55	0.51
Reach18	1907.73	2 Year	DonPhaseII_Final_Baseline	0.31	234.50	234.72	234.68	234.75	0.008767	0.73	0.45	3.77	0.62
Reach18	1907.73	2 Year	DonPhaseII_Final_Proposed	0.31	234.50	234.72	234.68	234.75	0.008767	0.73	0.45	3.77	0.62
Reach18	1900.6			Culvert									
Reach18	1889.61	Regional	DonPhaseII_Final_Baseline	49.03	233.44	235.21	235.21	235.64	0.010164	4.18	28.53	30.02	1.01
Reach18	1889.61	Regional	DonPhaseII_Final_Proposed	49.03	233.44	235.21	235.21	235.64	0.010164	4.18	28.53	30.02	1.01
Reach18	1889.61	350 Year	DonPhaseII_Final_Baseline	5.23	233.44	234.27	233.97	234.35	0.003718	1.51	5.24	10.82	0.54
Reach18	1889.61	350 Year	DonPhaseII_Final_Proposed	5.23	233.44	234.27	233.97	234.35	0.003718	1.51	5.24	10.82	0.54
Reach18	1889.61	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	233.44	233.72	233.65	233.76	0.007191	0.98	1.46	8.63	0.62
Reach18	1889.61	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	233.44	233.72	233.65	233.76	0.007191	0.98	1.46	8.63	0.62
Reach18	1889.61	100 Year	DonPhaseII_Final_Baseline	0.77	233.44	233.68	233.62	233.71	0.008175	0.93	1.18	8.31	0.64
Reach18	1889.61	100 Year	DonPhaseII_Final_Proposed	0.77	233.44	233.68	233.62	233.71	0.008175	0.93	1.18	8.31	0.64
Reach18	1889.61	50 Year	DonPhaseII_Final_Baseline	0.59	233.44	233.64	233.60	233.67	0.009265	0.87	0.95	7.99	0.66
Reach18	1889.61	50 Year	DonPhaseII_Final_Proposed	0.59	233.44	233.64	233.60	233.67	0.009265	0.87	0.95	7.99	0.66
Reach18	1889.61	25 Year	DonPhaseII_Final_Baseline	0.49	233.44	233.62	233.59	233.65	0.010068	0.84	0.82	7.80	0.67
Reach18	1889.61	25 Year	DonPhaseII_Final_Proposed	0.49	233.44	233.62	233.59	233.65	0.010068	0.84	0.82	7.80	0.67
Reach18	1889.61	10 Year	DonPhaseII_Final_Baseline	0.43	233.44	233.61	233.58	233.63	0.010323	0.80	0.75	7.69	0.67
Reach18	1889.61	10 Year	DonPhaseII_Final_Proposed	0.43	233.44	233.61	233.58	233.63	0.010323	0.80	0.75	7.69	0.67
Reach18	1889.61	5 Year	DonPhaseII_Final_Baseline	0.38	233.44	233.60	233.57	233.62	0.010557	0.77	0.68	7.60	0.67
Reach18	1889.61	5 Year	DonPhaseII_Final_Proposed	0.38	233.44	233.60	233.57	233.62	0.010557	0.77	0.68	7.60	0.67
Reach18	1889.61	2 Year	DonPhaseII_Final_Baseline	0.31	233.44	233.58	233.56	233.60	0.011089	0.73	0.59	7.45	0.67
Reach18	1889.61	2 Year	DonPhaseII_Final_Proposed	0.31	233.44	233.58	233.56	233.60	0.011089	0.73	0.59	7.45	0.67

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	1873.91	Regional	DonPhaseII_Final_Baseline	49.03	233.06	234.97	234.97	235.34	0.011090	4.46	32.37	39.72	1.05
Reach18	1873.91	Regional	DonPhaseII_Final_Proposed	49.03	233.06	234.97	234.97	235.34	0.011090	4.46	32.37	39.72	1.05
Reach18	1873.91	350 Year	DonPhaseII_Final_Baseline	5.23	233.06	233.97	233.97	234.22	0.010216	2.52	3.85	9.74	0.88
Reach18	1873.91	350 Year	DonPhaseII_Final_Proposed	5.23	233.06	233.97	233.97	234.22	0.010216	2.52	3.85	9.74	0.88
Reach18	1873.91	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	233.06	233.44	233.44	233.57	0.016702	1.64	0.74	3.41	0.96
Reach18	1873.91	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	233.06	233.44	233.44	233.57	0.016702	1.64	0.74	3.41	0.96
Reach18	1873.91	100 Year	DonPhaseII_Final_Baseline	0.77	233.06	233.39	233.39	233.51	0.018007	1.52	0.59	3.09	0.97
Reach18	1873.91	100 Year	DonPhaseII_Final_Proposed	0.77	233.06	233.39	233.39	233.51	0.018007	1.52	0.59	3.09	0.97
Reach18	1873.91	50 Year	DonPhaseII_Final_Baseline	0.59	233.06	233.35	233.35	233.45	0.019437	1.41	0.47	2.81	0.97
Reach18	1873.91	50 Year	DonPhaseII_Final_Proposed	0.59	233.06	233.35	233.35	233.45	0.019437	1.41	0.47	2.81	0.97
Reach18	1873.91	25 Year	DonPhaseII_Final_Baseline	0.49	233.06	233.33	233.33	233.42	0.020415	1.33	0.40	2.64	0.98
Reach18	1873.91	25 Year	DonPhaseII_Final_Proposed	0.49	233.06	233.33	233.33	233.42	0.020415	1.33	0.40	2.64	0.98
Reach18	1873.91	10 Year	DonPhaseII_Final_Baseline	0.43	233.06	233.31	233.31	233.40	0.021091	1.28	0.36	2.53	0.98
Reach18	1873.91	10 Year	DonPhaseII_Final_Proposed	0.43	233.06	233.31	233.31	233.40	0.021091	1.28	0.36	2.53	0.98
Reach18	1873.91	5 Year	DonPhaseII_Final_Baseline	0.38	233.06	233.30	233.30	233.38	0.022127	1.24	0.33	2.43	0.99
Reach18	1873.91	5 Year	DonPhaseII_Final_Proposed	0.38	233.06	233.30	233.30	233.38	0.022127	1.24	0.33	2.43	0.99
Reach18	1873.91	2 Year	DonPhaseII_Final_Baseline	0.31	233.06	233.28	233.28	233.35	0.023330	1.16	0.28	2.30	0.99
Reach18	1873.91	2 Year	DonPhaseII_Final_Proposed	0.31	233.06	233.28	233.28	233.35	0.023330	1.16	0.28	2.30	0.99
Reach18	1811.95	Regional	DonPhaseII_Final_Baseline	49.03	232.43	234.20		234.53	0.008831	3.85	34.55	39.94	0.94
Reach18	1811.95	Regional	DonPhaseII_Final_Proposed	49.03	232.43	234.20		234.53	0.008831	3.85	34.55	39.94	0.94
Reach18	1811.95	350 Year	DonPhaseII_Final_Baseline	5.23	232.43	233.26		233.35	0.004316	1.59	5.89	12.97	0.57
Reach18	1811.95	350 Year	DonPhaseII_Final_Proposed	5.23	232.43	233.26		233.35	0.004316	1.59	5.89	12.97	0.57
Reach18	1811.95	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	232.43	232.83		232.86	0.002838	0.77	1.82	6.33	0.41
Reach18	1811.95	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	232.43	232.83		232.86	0.002838	0.77	1.82	6.33	0.41
Reach18	1811.95	100 Year	DonPhaseII_Final_Baseline	0.77	232.43	232.78		232.80	0.002952	0.70	1.50	6.04	0.41
Reach18	1811.95	100 Year	DonPhaseII_Final_Proposed	0.77	232.43	232.78		232.80	0.002952	0.70	1.50	6.04	0.41
Reach18	1811.95	50 Year	DonPhaseII_Final_Baseline	0.59	232.43	232.73		232.75	0.003249	0.66	1.20	5.77	0.41
Reach18	1811.95	50 Year	DonPhaseII_Final_Proposed	0.59	232.43	232.73		232.75	0.003249	0.66	1.20	5.77	0.41
Reach18	1811.95	25 Year	DonPhaseII_Final_Baseline	0.49	232.43	232.70		232.72	0.003514	0.63	1.03	5.61	0.42
Reach18	1811.95	25 Year	DonPhaseII_Final_Proposed	0.49	232.43	232.70		232.72	0.003514	0.63	1.03	5.61	0.42
Reach18	1811.95	10 Year	DonPhaseII_Final_Baseline	0.43	232.43	232.68		232.70	0.003724	0.61	0.92	5.50	0.43
Reach18	1811.95	10 Year	DonPhaseII_Final_Proposed	0.43	232.43	232.68		232.70	0.003724	0.61	0.92	5.50	0.43
Reach18	1811.95	5 Year	DonPhaseII_Final_Baseline	0.38	232.43	232.67		232.68	0.003925	0.59	0.83	5.41	0.43
Reach18	1811.95	5 Year	DonPhaseII_Final_Proposed	0.38	232.43	232.67		232.68	0.003925	0.59	0.83	5.41	0.43
Reach18	1811.95	2 Year	DonPhaseII_Final_Baseline	0.31	232.43	232.64		232.66	0.004199	0.56	0.71	5.28	0.44
Reach18	1811.95	2 Year	DonPhaseII_Final_Proposed	0.31	232.43	232.64		232.66	0.004199	0.56	0.71	5.28	0.44
Reach18	1755.98	Regional	DonPhaseII_Final_Baseline	49.03	232.11	233.96		234.12	0.005627	2.77	41.51	41.79	0.71
Reach18	1755.98	Regional	DonPhaseII_Final_Proposed	49.03	232.11	233.96		234.12	0.005627	2.77	41.51	41.79	0.71
Reach18	1755.98	350 Year	DonPhaseII_Final_Baseline	5.23	232.11	232.99		233.07	0.006297	1.53	6.79	22.60	0.64
Reach18	1755.98	350 Year	DonPhaseII_Final_Proposed	5.23	232.11	232.99		233.07	0.006297	1.53	6.79	22.60	0.64
Reach18	1755.98	1.3*100 Year	DonPhaseII_Final_Baseline	1.00	232.11	232.66		232.69	0.003343	0.84	1.48	8.33	0.44
Reach18	1755.98	1.3*100 Year	DonPhaseII_Final_Proposed	1.00	232.11	232.66		232.69	0.003343	0.84	1.48	8.33	0.44
Reach18	1755.98	100 Year	DonPhaseII_Final_Baseline	0.77	232.11	232.60		232.63	0.003293	0.78	1.08	5.71	0.43
Reach18	1755.98	100 Year	DonPhaseII_Final_Proposed	0.77	232.11	232.60		232.63	0.003293	0.78	1.08	5.71	0.43
Reach18	1755.98	50 Year	DonPhaseII_Final_Baseline	0.59	232.11	232.55		232.57	0.003171	0.71	0.87	3.22	0.41
Reach18	1755.98	50 Year	DonPhaseII_Final_Proposed	0.59	232.11	232.55		232.57	0.003171	0.71	0.87	3.22	0.41

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	1755.98	25 Year	DonPhaselI_Final_Baseline	0.49	232.11	232.51		232.54	0.003117	0.66	0.77	3.06	0.40
Reach18	1755.98	25 Year	DonPhaselI_Final_Proposed	0.49	232.11	232.51		232.54	0.003117	0.66	0.77	3.06	0.40
Reach18	1755.98	10 Year	DonPhaselI_Final_Baseline	0.43	232.11	232.49		232.51	0.003128	0.63	0.70	2.94	0.40
Reach18	1755.98	10 Year	DonPhaselI_Final_Proposed	0.43	232.11	232.49		232.51	0.003128	0.63	0.70	2.94	0.40
Reach18	1755.98	5 Year	DonPhaselI_Final_Baseline	0.38	232.11	232.47		232.49	0.003138	0.61	0.64	2.85	0.39
Reach18	1755.98	5 Year	DonPhaselI_Final_Proposed	0.38	232.11	232.47		232.49	0.003138	0.61	0.64	2.85	0.39
Reach18	1755.98	2 Year	DonPhaselI_Final_Baseline	0.31	232.11	232.44		232.46	0.003062	0.56	0.56	2.71	0.38
Reach18	1755.98	2 Year	DonPhaselI_Final_Proposed	0.31	232.11	232.44		232.46	0.003062	0.56	0.56	2.71	0.38
Reach18	1711.95	Regional	DonPhaselI_Final_Baseline	49.03	231.92	233.47	233.31	233.75	0.012073	4.06	31.36	33.53	1.06
Reach18	1711.95	Regional	DonPhaselI_Final_Proposed	49.03	231.92	233.47	233.31	233.75	0.012073	4.06	31.36	33.53	1.06
Reach18	1711.95	350 Year	DonPhaselI_Final_Baseline	5.23	231.92	232.50	232.50	232.63	0.015613	2.27	5.44	18.06	1.01
Reach18	1711.95	350 Year	DonPhaselI_Final_Proposed	5.23	231.92	232.50	232.50	232.63	0.015613	2.27	5.44	18.06	1.01
Reach18	1711.95	1.3*100 Year	DonPhaselI_Final_Baseline	1.00	231.92	232.28	232.28	232.40	0.016764	1.61	0.78	10.98	0.95
Reach18	1711.95	1.3*100 Year	DonPhaselI_Final_Proposed	1.00	231.92	232.28	232.28	232.40	0.016764	1.61	0.78	10.98	0.95
Reach18	1711.95	100 Year	DonPhaselI_Final_Baseline	0.77	231.92	232.23	232.23	232.34	0.017730	1.48	0.63	10.10	0.96
Reach18	1711.95	100 Year	DonPhaselI_Final_Proposed	0.77	231.92	232.23	232.23	232.34	0.017730	1.48	0.63	10.10	0.96
Reach18	1711.95	50 Year	DonPhaselI_Final_Baseline	0.59	231.92	232.19	232.19	232.29	0.018997	1.37	0.50	9.35	0.96
Reach18	1711.95	50 Year	DonPhaselI_Final_Proposed	0.59	231.92	232.19	232.19	232.29	0.018997	1.37	0.50	9.35	0.96
Reach18	1711.95	25 Year	DonPhaselI_Final_Baseline	0.49	231.92	232.18	232.17	232.25	0.018256	1.26	0.44	9.00	0.93
Reach18	1711.95	25 Year	DonPhaselI_Final_Proposed	0.49	231.92	232.18	232.17	232.25	0.018256	1.26	0.44	9.00	0.93
Reach18	1711.95	10 Year	DonPhaselI_Final_Baseline	0.43	231.92	232.16	232.16	232.23	0.017723	1.19	0.41	8.77	0.90
Reach18	1711.95	10 Year	DonPhaselI_Final_Proposed	0.43	231.92	232.16	232.16	232.23	0.017723	1.19	0.41	8.77	0.90
Reach18	1711.95	5 Year	DonPhaselI_Final_Baseline	0.38	231.92	232.15	232.14	232.22	0.017174	1.12	0.38	8.57	0.88
Reach18	1711.95	5 Year	DonPhaselI_Final_Proposed	0.38	231.92	232.15	232.14	232.22	0.017174	1.12	0.38	8.57	0.88
Reach18	1711.95	2 Year	DonPhaselI_Final_Baseline	0.31	231.92	232.14	232.12	232.19	0.016785	1.03	0.33	8.18	0.85
Reach18	1711.95	2 Year	DonPhaselI_Final_Proposed	0.31	231.92	232.14	232.12	232.19	0.016785	1.03	0.33	8.18	0.85
Reach18	1671.22	Regional	DonPhaselI_Final_Baseline	54.32	231.16	233.30		233.46	0.004831	3.24	52.11	51.31	0.72
Reach18	1671.22	Regional	DonPhaselI_Final_Proposed	54.32	231.16	233.30		233.46	0.004831	3.24	52.11	51.31	0.72
Reach18	1671.22	350 Year	DonPhaselI_Final_Baseline	5.90	231.16	232.03	232.03	232.21	0.008424	2.31	5.96	17.37	0.81
Reach18	1671.22	350 Year	DonPhaselI_Final_Proposed	5.90	231.16	232.03	232.03	232.21	0.008424	2.31	5.96	17.37	0.81
Reach18	1671.22	1.3*100 Year	DonPhaselI_Final_Baseline	1.03	231.16	231.49	231.49	231.62	0.017049	1.64	0.79	3.65	0.97
Reach18	1671.22	1.3*100 Year	DonPhaselI_Final_Proposed	1.03	231.16	231.49	231.49	231.62	0.017049	1.64	0.79	3.65	0.97
Reach18	1671.22	100 Year	DonPhaselI_Final_Baseline	0.79	231.16	231.45	231.45	231.56	0.017885	1.50	0.63	3.36	0.96
Reach18	1671.22	100 Year	DonPhaselI_Final_Proposed	0.79	231.16	231.45	231.45	231.56	0.017885	1.50	0.63	3.36	0.96
Reach18	1671.22	50 Year	DonPhaselI_Final_Baseline	0.61	231.16	231.41	231.41	231.51	0.019360	1.40	0.51	3.10	0.98
Reach18	1671.22	50 Year	DonPhaselI_Final_Proposed	0.61	231.16	231.41	231.41	231.51	0.019360	1.40	0.51	3.10	0.98
Reach18	1671.22	25 Year	DonPhaselI_Final_Baseline	0.51	231.16	231.39	231.39	231.47	0.020166	1.32	0.44	2.95	0.98
Reach18	1671.22	25 Year	DonPhaselI_Final_Proposed	0.51	231.16	231.39	231.39	231.47	0.020166	1.32	0.44	2.95	0.98
Reach18	1671.22	10 Year	DonPhaselI_Final_Baseline	0.44	231.16	231.37	231.37	231.45	0.020987	1.26	0.39	2.83	0.98
Reach18	1671.22	10 Year	DonPhaselI_Final_Proposed	0.44	231.16	231.37	231.37	231.45	0.020987	1.26	0.39	2.83	0.98
Reach18	1671.22	5 Year	DonPhaselI_Final_Baseline	0.39	231.16	231.36	231.36	231.43	0.021584	1.22	0.35	2.75	0.98
Reach18	1671.22	5 Year	DonPhaselI_Final_Proposed	0.39	231.16	231.36	231.36	231.43	0.021584	1.22	0.35	2.75	0.98
Reach18	1671.22	2 Year	DonPhaselI_Final_Baseline	0.32	231.16	231.34	231.34	231.41	0.022102	1.14	0.31	2.63	0.97
Reach18	1671.22	2 Year	DonPhaselI_Final_Proposed	0.32	231.16	231.34	231.34	231.41	0.022102	1.14	0.31	2.63	0.97
Reach18	1628.94	Regional	DonPhaselI_Final_Baseline	54.32	230.64	232.62	232.62	233.12	0.013093	4.97	29.78	29.46	1.15
Reach18	1628.94	Regional	DonPhaselI_Final_Proposed	54.32	230.64	232.62	232.62	233.12	0.013093	4.97	29.78	29.46	1.15

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	1628.94	350 Year	DonPhaselI_Final_Baseline	5.90	230.64	231.62	231.62	231.81	0.007571	2.30	5.61	17.47	0.77
Reach18	1628.94	350 Year	DonPhaselI_Final_Proposed	5.90	230.64	231.62	231.62	231.81	0.007571	2.30	5.61	17.47	0.77
Reach18	1628.94	1.3*100 Year	DonPhaselI_Final_Baseline	1.03	230.64	231.11		231.18	0.006408	1.21	1.11	4.21	0.62
Reach18	1628.94	1.3*100 Year	DonPhaselI_Final_Proposed	1.03	230.64	231.11		231.18	0.006408	1.21	1.11	4.21	0.62
Reach18	1628.94	100 Year	DonPhaselI_Final_Baseline	0.79	230.64	231.07		231.12	0.005993	1.08	0.92	3.85	0.59
Reach18	1628.94	100 Year	DonPhaselI_Final_Proposed	0.79	230.64	231.07		231.12	0.005993	1.08	0.92	3.85	0.59
Reach18	1628.94	50 Year	DonPhaselI_Final_Baseline	0.61	230.64	231.03		231.07	0.005532	0.95	0.78	3.55	0.55
Reach18	1628.94	50 Year	DonPhaselI_Final_Proposed	0.61	230.64	231.03		231.07	0.005532	0.95	0.78	3.55	0.55
Reach18	1628.94	25 Year	DonPhaselI_Final_Baseline	0.51	230.64	231.00		231.04	0.005278	0.88	0.69	3.36	0.53
Reach18	1628.94	25 Year	DonPhaselI_Final_Proposed	0.51	230.64	231.00		231.04	0.005278	0.88	0.69	3.36	0.53
Reach18	1628.94	10 Year	DonPhaselI_Final_Baseline	0.44	230.64	230.98		231.01	0.005103	0.82	0.62	3.22	0.52
Reach18	1628.94	10 Year	DonPhaselI_Final_Proposed	0.44	230.64	230.98		231.01	0.005103	0.82	0.62	3.22	0.52
Reach18	1628.94	5 Year	DonPhaselI_Final_Baseline	0.39	230.64	230.97		231.00	0.004961	0.78	0.58	3.12	0.50
Reach18	1628.94	5 Year	DonPhaselI_Final_Proposed	0.39	230.64	230.97		231.00	0.004961	0.78	0.58	3.12	0.50
Reach18	1628.94	2 Year	DonPhaselI_Final_Baseline	0.32	230.64	230.94		230.97	0.004992	0.72	0.50	2.93	0.50
Reach18	1628.94	2 Year	DonPhaselI_Final_Proposed	0.32	230.64	230.94		230.97	0.004992	0.72	0.50	2.93	0.50
Reach18	1567	Regional	DonPhaselI_Final_Baseline	54.32	230.16	231.96	231.96	232.36	0.011605	4.40	33.63	37.01	1.07
Reach18	1567	Regional	DonPhaselI_Final_Proposed	54.32	230.16	231.96	231.96	232.36	0.011605	4.40	33.63	37.01	1.07
Reach18	1567	350 Year	DonPhaselI_Final_Baseline	5.90	230.16	231.01	231.01	231.25	0.009920	2.40	4.47	13.42	0.87
Reach18	1567	350 Year	DonPhaselI_Final_Proposed	5.90	230.16	231.01	231.01	231.25	0.009920	2.40	4.47	13.42	0.87
Reach18	1567	1.3*100 Year	DonPhaselI_Final_Baseline	1.03	230.16	230.50	230.48	230.60	0.015565	1.47	0.80	3.89	0.91
Reach18	1567	1.3*100 Year	DonPhaselI_Final_Proposed	1.03	230.16	230.50	230.48	230.60	0.015565	1.47	0.80	3.89	0.91
Reach18	1567	100 Year	DonPhaselI_Final_Baseline	0.79	230.16	230.45	230.44	230.55	0.016917	1.36	0.64	3.49	0.92
Reach18	1567	100 Year	DonPhaselI_Final_Proposed	0.79	230.16	230.45	230.44	230.55	0.016917	1.36	0.64	3.49	0.92
Reach18	1567	50 Year	DonPhaselI_Final_Baseline	0.61	230.16	230.42	230.41	230.50	0.019004	1.27	0.52	3.17	0.94
Reach18	1567	50 Year	DonPhaselI_Final_Proposed	0.61	230.16	230.42	230.41	230.50	0.019004	1.27	0.52	3.17	0.94
Reach18	1567	25 Year	DonPhaselI_Final_Baseline	0.51	230.16	230.39	230.39	230.47	0.020460	1.22	0.45	2.99	0.96
Reach18	1567	25 Year	DonPhaselI_Final_Proposed	0.51	230.16	230.39	230.39	230.47	0.020460	1.22	0.45	2.99	0.96
Reach18	1567	10 Year	DonPhaselI_Final_Baseline	0.44	230.16	230.38	230.37	230.45	0.021482	1.18	0.39	2.84	0.97
Reach18	1567	10 Year	DonPhaselI_Final_Proposed	0.44	230.16	230.38	230.37	230.45	0.021482	1.18	0.39	2.84	0.97
Reach18	1567	5 Year	DonPhaselI_Final_Baseline	0.39	230.16	230.36	230.36	230.43	0.022485	1.16	0.35	2.71	0.98
Reach18	1567	5 Year	DonPhaselI_Final_Proposed	0.39	230.16	230.36	230.36	230.43	0.022485	1.16	0.35	2.71	0.98
Reach18	1567	2 Year	DonPhaselI_Final_Baseline	0.32	230.16	230.35	230.34	230.40	0.021343	1.07	0.31	2.58	0.94
Reach18	1567	2 Year	DonPhaselI_Final_Proposed	0.32	230.16	230.35	230.34	230.40	0.021343	1.07	0.31	2.58	0.94
Reach18	1511.95	Regional	DonPhaselI_Final_Baseline	54.32	229.57	231.20	231.20	231.54	0.012098	4.02	31.83	46.01	1.05
Reach18	1511.95	Regional	DonPhaselI_Final_Proposed	54.32	229.57	231.20	231.20	231.54	0.012098	4.02	31.83	46.01	1.05
Reach18	1511.95	350 Year	DonPhaselI_Final_Baseline	5.90	229.57	230.44	230.44	230.58	0.007172	1.92	5.67	25.33	0.72
Reach18	1511.95	350 Year	DonPhaselI_Final_Proposed	5.90	229.57	230.44	230.44	230.58	0.007172	1.92	5.67	25.33	0.72
Reach18	1511.95	1.3*100 Year	DonPhaselI_Final_Baseline	1.03	229.57	230.04	229.93	230.09	0.005905	1.02	1.07	3.73	0.57
Reach18	1511.95	1.3*100 Year	DonPhaselI_Final_Proposed	1.03	229.57	230.04	229.93	230.09	0.005905	1.02	1.07	3.73	0.57
Reach18	1511.95	100 Year	DonPhaselI_Final_Baseline	0.79	229.57	229.99	229.88	230.03	0.005680	0.93	0.90	3.46	0.55
Reach18	1511.95	100 Year	DonPhaselI_Final_Proposed	0.79	229.57	229.99	229.88	230.03	0.005680	0.93	0.90	3.46	0.55
Reach18	1511.95	50 Year	DonPhaselI_Final_Baseline	0.61	229.57	229.95	229.85	229.98	0.005343	0.84	0.76	3.22	0.52
Reach18	1511.95	50 Year	DonPhaselI_Final_Proposed	0.61	229.57	229.95	229.85	229.98	0.005343	0.84	0.76	3.22	0.52
Reach18	1511.95	25 Year	DonPhaselI_Final_Baseline	0.51	229.57	229.92	229.82	229.95	0.005210	0.78	0.67	3.07	0.51
Reach18	1511.95	25 Year	DonPhaselI_Final_Proposed	0.51	229.57	229.92	229.82	229.95	0.005210	0.78	0.67	3.07	0.51
Reach18	1511.95	10 Year	DonPhaselI_Final_Baseline	0.44	229.57	229.90	229.81	229.93	0.005087	0.74	0.61	2.96	0.50

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	1511.95	10 Year	DonPhaseII_Final_Proposed	0.44	229.57	229.90	229.81	229.93	0.005087	0.74	0.61	2.96	0.50
Reach18	1511.95	5 Year	DonPhaseII_Final_Baseline	0.39	229.57	229.88	229.80	229.91	0.005009	0.70	0.56	2.87	0.49
Reach18	1511.95	5 Year	DonPhaseII_Final_Proposed	0.39	229.57	229.88	229.80	229.91	0.005009	0.70	0.56	2.87	0.49
Reach18	1511.95	2 Year	DonPhaseII_Final_Baseline	0.32	229.57	229.86	229.77	229.88	0.005231	0.67	0.48	2.71	0.49
Reach18	1511.95	2 Year	DonPhaseII_Final_Proposed	0.32	229.57	229.86	229.77	229.88	0.005231	0.67	0.48	2.71	0.49
Reach18	1411.95	Regional	DonPhaseII_Final_Baseline	54.32	228.74	230.33	230.18	230.56	0.010480	3.90	38.13	39.94	1.00
Reach18	1411.95	Regional	DonPhaseII_Final_Proposed	54.32	228.74	230.33	230.18	230.56	0.010480	3.90	38.13	39.94	1.00
Reach18	1411.95	350 Year	DonPhaseII_Final_Baseline	5.90	228.74	229.52	229.52	229.63	0.007806	2.04	8.40	31.91	0.76
Reach18	1411.95	350 Year	DonPhaseII_Final_Proposed	5.90	228.74	229.52	229.52	229.63	0.007806	2.04	8.40	31.91	0.76
Reach18	1411.95	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	228.74	229.07	229.07	229.18	0.016468	1.58	0.91	4.81	0.95
Reach18	1411.95	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	228.74	229.07	229.07	229.18	0.016468	1.58	0.91	4.81	0.95
Reach18	1411.95	100 Year	DonPhaseII_Final_Baseline	0.79	228.74	229.03	229.03	229.13	0.017102	1.46	0.72	4.37	0.94
Reach18	1411.95	100 Year	DonPhaseII_Final_Proposed	0.79	228.74	229.03	229.03	229.13	0.017102	1.46	0.72	4.37	0.94
Reach18	1411.95	50 Year	DonPhaseII_Final_Baseline	0.61	228.74	228.99	228.99	229.08	0.018665	1.36	0.57	3.92	0.96
Reach18	1411.95	50 Year	DonPhaseII_Final_Proposed	0.61	228.74	228.99	228.99	229.08	0.018665	1.36	0.57	3.92	0.96
Reach18	1411.95	25 Year	DonPhaseII_Final_Baseline	0.51	228.74	228.97	228.97	229.05	0.019434	1.29	0.49	3.65	0.96
Reach18	1411.95	25 Year	DonPhaseII_Final_Proposed	0.51	228.74	228.97	228.97	229.05	0.019434	1.29	0.49	3.65	0.96
Reach18	1411.95	10 Year	DonPhaseII_Final_Baseline	0.44	228.74	228.95	228.95	229.03	0.020158	1.24	0.43	3.46	0.96
Reach18	1411.95	10 Year	DonPhaseII_Final_Proposed	0.44	228.74	228.95	228.95	229.03	0.020158	1.24	0.43	3.46	0.96
Reach18	1411.95	5 Year	DonPhaseII_Final_Baseline	0.39	228.74	228.94	228.94	229.01	0.020641	1.19	0.39	3.31	0.96
Reach18	1411.95	5 Year	DonPhaseII_Final_Proposed	0.39	228.74	228.94	228.94	229.01	0.020641	1.19	0.39	3.31	0.96
Reach18	1411.95	2 Year	DonPhaseII_Final_Baseline	0.32	228.74	228.93	228.92	228.99	0.018558	1.07	0.35	3.17	0.90
Reach18	1411.95	2 Year	DonPhaseII_Final_Proposed	0.32	228.74	228.93	228.92	228.99	0.018558	1.07	0.35	3.17	0.90
Reach18	1311.95	Regional	DonPhaseII_Final_Baseline	54.32	228.31	229.97		230.04	0.002971	2.09	58.68	45.49	0.53
Reach18	1311.95	Regional	DonPhaseII_Final_Proposed	54.32	228.31	229.97		230.04	0.002971	2.09	58.68	45.49	0.53
Reach18	1311.95	350 Year	DonPhaseII_Final_Baseline	5.90	228.31	228.98		229.00	0.001834	0.85	16.23	40.10	0.36
Reach18	1311.95	350 Year	DonPhaseII_Final_Proposed	5.90	228.31	228.98		229.00	0.001834	0.85	16.23	40.10	0.36
Reach18	1311.95	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	228.31	228.68		228.68	0.001592	0.49	4.88	33.11	0.29
Reach18	1311.95	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	228.31	228.68		228.68	0.001592	0.49	4.88	33.11	0.29
Reach18	1311.95	100 Year	DonPhaseII_Final_Baseline	0.79	228.31	228.65		228.66	0.001480	0.44	4.09	32.64	0.28
Reach18	1311.95	100 Year	DonPhaseII_Final_Proposed	0.79	228.31	228.65		228.66	0.001480	0.44	4.09	32.64	0.28
Reach18	1311.95	50 Year	DonPhaseII_Final_Baseline	0.61	228.31	228.62		228.63	0.001557	0.42	3.17	28.51	0.28
Reach18	1311.95	50 Year	DonPhaseII_Final_Proposed	0.61	228.31	228.62		228.63	0.001557	0.42	3.17	28.51	0.28
Reach18	1311.95	25 Year	DonPhaseII_Final_Baseline	0.51	228.31	228.60		228.61	0.001599	0.40	2.69	27.04	0.28
Reach18	1311.95	25 Year	DonPhaseII_Final_Proposed	0.51	228.31	228.60		228.61	0.001599	0.40	2.69	27.04	0.28
Reach18	1311.95	10 Year	DonPhaseII_Final_Baseline	0.44	228.31	228.59		228.60	0.001611	0.39	2.35	26.18	0.28
Reach18	1311.95	10 Year	DonPhaseII_Final_Proposed	0.44	228.31	228.59		228.60	0.001611	0.39	2.35	26.18	0.28
Reach18	1311.95	5 Year	DonPhaseII_Final_Baseline	0.39	228.31	228.58		228.59	0.001663	0.38	2.05	24.52	0.28
Reach18	1311.95	5 Year	DonPhaseII_Final_Proposed	0.39	228.31	228.58		228.59	0.001663	0.38	2.05	24.52	0.28
Reach18	1311.95	2 Year	DonPhaseII_Final_Baseline	0.32	228.31	228.56		228.57	0.001733	0.36	1.67	22.28	0.28
Reach18	1311.95	2 Year	DonPhaseII_Final_Proposed	0.32	228.31	228.56		228.57	0.001733	0.36	1.67	22.28	0.28
Reach18	1211.95	Regional	DonPhaseII_Final_Baseline	54.32	228.10	229.40	229.15	229.56	0.010947	2.71	39.97	56.48	0.79
Reach18	1211.95	Regional	DonPhaseII_Final_Proposed	54.32	228.10	229.40	229.15	229.56	0.010947	2.71	39.97	56.48	0.79
Reach18	1211.95	350 Year	DonPhaseII_Final_Baseline	5.90	228.10	228.66	228.52	228.69	0.006713	1.17	9.84	32.52	0.55
Reach18	1211.95	350 Year	DonPhaseII_Final_Proposed	5.90	228.10	228.66	228.52	228.69	0.006713	1.17	9.84	32.52	0.55
Reach18	1211.95	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	228.10	228.41	228.35	228.43	0.004967	0.67	2.71	22.97	0.46

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	1211.95	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	228.10	228.41	228.35	228.43	0.004967	0.67	2.71	22.97	0.46
Reach18	1211.95	100 Year	DonPhaseII_Final_Baseline	0.79	228.10	228.40	228.33	228.42	0.004760	0.64	1.77	13.98	0.45
Reach18	1211.95	100 Year	DonPhaseII_Final_Proposed	0.79	228.10	228.40	228.33	228.42	0.004760	0.64	1.77	13.98	0.45
Reach18	1211.95	50 Year	DonPhaseII_Final_Baseline	0.61	228.10	228.38	228.31	228.39	0.004351	0.57	1.46	11.39	0.43
Reach18	1211.95	50 Year	DonPhaseII_Final_Proposed	0.61	228.10	228.38	228.31	228.39	0.004351	0.57	1.46	11.39	0.43
Reach18	1211.95	25 Year	DonPhaseII_Final_Baseline	0.51	228.10	228.36	228.29	228.37	0.004127	0.54	1.29	9.91	0.41
Reach18	1211.95	25 Year	DonPhaseII_Final_Proposed	0.51	228.10	228.36	228.29	228.37	0.004127	0.54	1.29	9.91	0.41
Reach18	1211.95	10 Year	DonPhaseII_Final_Baseline	0.44	228.10	228.35	228.28	228.36	0.003916	0.51	1.17	9.61	0.40
Reach18	1211.95	10 Year	DonPhaseII_Final_Proposed	0.44	228.10	228.35	228.28	228.36	0.003916	0.51	1.17	9.61	0.40
Reach18	1211.95	5 Year	DonPhaseII_Final_Baseline	0.39	228.10	228.34	228.27	228.35	0.003791	0.49	1.07	9.42	0.39
Reach18	1211.95	5 Year	DonPhaseII_Final_Proposed	0.39	228.10	228.34	228.27	228.35	0.003791	0.49	1.07	9.42	0.39
Reach18	1211.95	2 Year	DonPhaseII_Final_Baseline	0.32	228.10	228.32	228.26	228.33	0.003568	0.45	0.93	9.14	0.38
Reach18	1211.95	2 Year	DonPhaseII_Final_Proposed	0.32	228.10	228.32	228.26	228.33	0.003568	0.45	0.93	9.14	0.38
Reach18	1166	Regional	DonPhaseII_Final_Baseline	54.32	228.00	229.10	228.74	229.18	0.006674	2.38	57.81	80.21	0.75
Reach18	1166	Regional	DonPhaseII_Final_Proposed	54.32	228.00	229.10	228.74	229.18	0.006674	2.38	57.81	80.21	0.75
Reach18	1166	350 Year	DonPhaseII_Final_Baseline	5.90	228.00	228.39	228.23	228.41	0.006197	1.07	12.31	48.52	0.60
Reach18	1166	350 Year	DonPhaseII_Final_Proposed	5.90	228.00	228.39	228.23	228.41	0.006197	1.07	12.31	48.52	0.60
Reach18	1166	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	228.00	228.17	228.10	228.18	0.006699	0.54	3.73	33.17	0.52
Reach18	1166	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	228.00	228.17	228.10	228.18	0.006699	0.54	3.73	33.17	0.52
Reach18	1166	100 Year	DonPhaseII_Final_Baseline	0.79	228.00	228.15	228.09	228.16	0.007324	0.49	3.09	32.99	0.52
Reach18	1166	100 Year	DonPhaseII_Final_Proposed	0.79	228.00	228.15	228.09	228.16	0.007324	0.49	3.09	32.99	0.52
Reach18	1166	50 Year	DonPhaseII_Final_Baseline	0.61	228.00	228.14	228.08	228.14	0.007794	0.44	2.49	31.52	0.52
Reach18	1166	50 Year	DonPhaseII_Final_Proposed	0.61	228.00	228.14	228.08	228.14	0.007794	0.44	2.49	31.52	0.52
Reach18	1166	25 Year	DonPhaseII_Final_Baseline	0.51	228.00	228.12	228.07	228.13	0.008156	0.40	2.13	28.92	0.52
Reach18	1166	25 Year	DonPhaseII_Final_Proposed	0.51	228.00	228.12	228.07	228.13	0.008156	0.40	2.13	28.92	0.52
Reach18	1166	10 Year	DonPhaseII_Final_Baseline	0.44	228.00	228.11	228.06	228.12	0.008597	0.38	1.86	26.73	0.52
Reach18	1166	10 Year	DonPhaseII_Final_Proposed	0.44	228.00	228.11	228.06	228.12	0.008597	0.38	1.86	26.73	0.52
Reach18	1166	5 Year	DonPhaseII_Final_Baseline	0.39	228.00	228.11	228.06	228.11	0.008796	0.37	1.68	25.32	0.52
Reach18	1166	5 Year	DonPhaseII_Final_Proposed	0.39	228.00	228.11	228.06	228.11	0.008796	0.37	1.68	25.32	0.52
Reach18	1166	2 Year	DonPhaseII_Final_Baseline	0.32	228.00	228.10	228.05	228.10	0.009365	0.35	1.42	23.46	0.53
Reach18	1166	2 Year	DonPhaseII_Final_Proposed	0.32	228.00	228.10	228.05	228.10	0.009365	0.35	1.42	23.46	0.53
Reach18	1128	Regional	DonPhaseII_Final_Baseline	54.32	227.90	228.93		229.00	0.006099	2.24	59.17	74.98	0.71
Reach18	1128	Regional	DonPhaseII_Final_Proposed	54.32	227.90	228.93		229.00	0.006099	2.24	59.17	74.98	0.71
Reach18	1128	350 Year	DonPhaseII_Final_Baseline	5.90	227.90	228.29		228.30	0.002654	0.75	18.01	58.02	0.40
Reach18	1128	350 Year	DonPhaseII_Final_Proposed	5.90	227.90	228.29		228.30	0.002654	0.75	18.01	58.02	0.40
Reach18	1128	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	227.90	228.10		228.10	0.001496	0.34	7.13	55.76	0.26
Reach18	1128	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	227.90	228.10		228.10	0.001496	0.34	7.13	55.76	0.26
Reach18	1128	100 Year	DonPhaseII_Final_Baseline	0.79	227.90	228.08		228.08	0.001310	0.30	6.26	55.15	0.24
Reach18	1128	100 Year	DonPhaseII_Final_Proposed	0.79	227.90	228.08		228.08	0.001310	0.30	6.26	55.15	0.24
Reach18	1128	50 Year	DonPhaseII_Final_Baseline	0.61	227.90	228.07		228.07	0.001206	0.27	5.42	54.53	0.23
Reach18	1128	50 Year	DonPhaseII_Final_Proposed	0.61	227.90	228.07		228.07	0.001206	0.27	5.42	54.53	0.23
Reach18	1128	25 Year	DonPhaseII_Final_Baseline	0.51	227.90	228.06		228.06	0.001167	0.25	4.83	53.49	0.22
Reach18	1128	25 Year	DonPhaseII_Final_Proposed	0.51	227.90	228.06		228.06	0.001167	0.25	4.83	53.49	0.22
Reach18	1128	10 Year	DonPhaseII_Final_Baseline	0.44	227.90	228.05		228.05	0.001047	0.23	4.53	52.40	0.21
Reach18	1128	10 Year	DonPhaseII_Final_Proposed	0.44	227.90	228.05		228.05	0.001047	0.23	4.53	52.40	0.21
Reach18	1128	5 Year	DonPhaseII_Final_Baseline	0.39	227.90	228.04		228.05	0.001020	0.22	4.21	51.96	0.20
Reach18	1128	5 Year	DonPhaseII_Final_Proposed	0.39	227.90	228.04		228.05	0.001020	0.22	4.21	51.96	0.20

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	1128	2 Year	DonPhaseII_Final_Baseline	0.32	227.90	228.04		228.04	0.000947	0.20	3.76	51.50	0.19
Reach18	1128	2 Year	DonPhaseII_Final_Proposed	0.32	227.90	228.04		228.04	0.000947	0.20	3.76	51.50	0.19
Reach18	1109.25	Regional	DonPhaseII_Final_Baseline	54.32	227.92	228.52	228.52	228.76	0.039569	3.99	31.18	61.82	1.66
Reach18	1109.25	Regional	DonPhaseII_Final_Proposed	54.32	227.92	228.52	228.52	228.76	0.039569	3.99	31.18	61.82	1.66
Reach18	1109.25	350 Year	DonPhaseII_Final_Baseline	5.90	227.92	228.10	228.10	228.17	0.053334	2.00	6.63	47.73	1.56
Reach18	1109.25	350 Year	DonPhaseII_Final_Proposed	5.90	227.92	228.10	228.10	228.17	0.053334	2.00	6.63	47.73	1.56
Reach18	1109.25	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	227.92	228.00	228.00	228.02	0.056684	1.11	2.08	41.23	1.38
Reach18	1109.25	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	227.92	228.00	228.00	228.02	0.056684	1.11	2.08	41.23	1.38
Reach18	1109.25	100 Year	DonPhaseII_Final_Baseline	0.79	227.92	227.99	227.99	228.01	0.056084	1.01	1.75	40.25	1.34
Reach18	1109.25	100 Year	DonPhaseII_Final_Proposed	0.79	227.92	227.99	227.99	228.01	0.056084	1.01	1.75	40.25	1.34
Reach18	1109.25	50 Year	DonPhaseII_Final_Baseline	0.61	227.92	227.98	227.98	228.00	0.065952	0.98	1.39	39.15	1.42
Reach18	1109.25	50 Year	DonPhaseII_Final_Proposed	0.61	227.92	227.98	227.98	228.00	0.065952	0.98	1.39	39.15	1.42
Reach18	1109.25	25 Year	DonPhaseII_Final_Baseline	0.51	227.92	227.98	227.98	227.99	0.060442	0.90	1.26	38.36	1.34
Reach18	1109.25	25 Year	DonPhaseII_Final_Proposed	0.51	227.92	227.98	227.98	227.99	0.060442	0.90	1.26	38.36	1.34
Reach18	1109.25	10 Year	DonPhaseII_Final_Baseline	0.44	227.92	227.97	227.97	227.99	0.071562	0.90	1.07	36.95	1.43
Reach18	1109.25	10 Year	DonPhaseII_Final_Proposed	0.44	227.92	227.97	227.97	227.99	0.071562	0.90	1.07	36.95	1.43
Reach18	1109.25	5 Year	DonPhaseII_Final_Baseline	0.39	227.92	227.97	227.97	227.99	0.060642	0.82	1.04	36.74	1.31
Reach18	1109.25	5 Year	DonPhaseII_Final_Proposed	0.39	227.92	227.97	227.97	227.99	0.060642	0.82	1.04	36.74	1.31
Reach18	1109.25	2 Year	DonPhaseII_Final_Baseline	0.32	227.92	227.97	227.97	227.98	0.062266	0.77	0.89	35.62	1.31
Reach18	1109.25	2 Year	DonPhaseII_Final_Proposed	0.32	227.92	227.97	227.97	227.98	0.062266	0.77	0.89	35.62	1.31
Reach18	1067.93	Regional	DonPhaseII_Final_Baseline	54.32	225.28	226.99		227.19	0.004392	2.38	37.11	45.94	0.64
Reach18	1067.93	Regional	DonPhaseII_Final_Proposed	54.32	225.28	226.99		227.19	0.004392	2.38	37.11	45.94	0.64
Reach18	1067.93	350 Year	DonPhaseII_Final_Baseline	5.90	225.28	225.87	225.87	226.04	0.017148	1.85	3.24	9.89	0.99
Reach18	1067.93	350 Year	DonPhaseII_Final_Proposed	5.90	225.28	225.87	225.87	226.04	0.017148	1.85	3.24	9.89	0.99
Reach18	1067.93	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	225.28	225.53	225.53	225.61	0.023213	1.25	0.82	5.25	1.01
Reach18	1067.93	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	225.28	225.53	225.53	225.61	0.023213	1.25	0.82	5.25	1.01
Reach18	1067.93	100 Year	DonPhaseII_Final_Baseline	0.79	225.28	225.50	225.50	225.57	0.024263	1.17	0.68	4.99	1.01
Reach18	1067.93	100 Year	DonPhaseII_Final_Proposed	0.79	225.28	225.50	225.50	225.57	0.024263	1.17	0.68	4.99	1.01
Reach18	1067.93	50 Year	DonPhaseII_Final_Baseline	0.61	225.28	225.48	225.48	225.54	0.025036	1.10	0.56	4.60	1.01
Reach18	1067.93	50 Year	DonPhaseII_Final_Proposed	0.61	225.28	225.48	225.48	225.54	0.025036	1.10	0.56	4.60	1.01
Reach18	1067.93	25 Year	DonPhaseII_Final_Baseline	0.51	225.28	225.46	225.46	225.52	0.025799	1.05	0.49	4.37	1.01
Reach18	1067.93	25 Year	DonPhaseII_Final_Proposed	0.51	225.28	225.46	225.46	225.52	0.025799	1.05	0.49	4.37	1.01
Reach18	1067.93	10 Year	DonPhaseII_Final_Baseline	0.44	225.28	225.45	225.45	225.50	0.025911	1.01	0.44	4.21	1.00
Reach18	1067.93	10 Year	DonPhaseII_Final_Proposed	0.44	225.28	225.45	225.45	225.50	0.025911	1.01	0.44	4.21	1.00
Reach18	1067.93	5 Year	DonPhaseII_Final_Baseline	0.39	225.28	225.44	225.44	225.49	0.026979	0.98	0.40	4.08	1.01
Reach18	1067.93	5 Year	DonPhaseII_Final_Proposed	0.39	225.28	225.44	225.44	225.49	0.026979	0.98	0.40	4.08	1.01
Reach18	1067.93	2 Year	DonPhaseII_Final_Baseline	0.32	225.28	225.44	225.43	225.47	0.021227	0.85	0.38	4.01	0.89
Reach18	1067.93	2 Year	DonPhaseII_Final_Proposed	0.32	225.28	225.44	225.43	225.47	0.021227	0.85	0.38	4.01	0.89
Reach18	1009.29	Regional	DonPhaseII_Final_Baseline	54.32	224.63	226.34	226.34	226.80	0.009532	3.86	29.75	31.57	0.97
Reach18	1009.29	Regional	DonPhaseII_Final_Proposed	54.32	224.63	226.34	226.34	226.80	0.009532	3.86	29.75	31.57	0.97
Reach18	1009.29	350 Year	DonPhaseII_Final_Baseline	5.90	224.63	225.40	225.13	225.45	0.002770	1.18	8.16	15.15	0.45
Reach18	1009.29	350 Year	DonPhaseII_Final_Proposed	5.90	224.63	225.40	225.13	225.45	0.002770	1.18	8.16	15.15	0.45
Reach18	1009.29	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	224.63	224.98	224.86	224.99	0.002580	0.61	2.43	11.69	0.37
Reach18	1009.29	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	224.63	224.98	224.86	224.99	0.002580	0.61	2.43	11.69	0.37
Reach18	1009.29	100 Year	DonPhaseII_Final_Baseline	0.79	224.63	224.93	224.84	224.94	0.003045	0.58	1.90	11.20	0.39
Reach18	1009.29	100 Year	DonPhaseII_Final_Proposed	0.79	224.63	224.93	224.84	224.94	0.003045	0.58	1.90	11.20	0.39

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev	Crit W.S.	E.G. Elev	E.G. Slope	Vel Chnl	Flow Area	Top Width	Froude # Chl
				(m3/s)	(m)	(m)	(m)	(m)	(m/m)	(m/s)	(m2)	(m)	
Reach18	1009.29	50 Year	DonPhaseII_Final_Baseline	0.61	224.63	224.89	224.82	224.91	0.003601	0.56	1.48	10.77	0.41
Reach18	1009.29	50 Year	DonPhaseII_Final_Proposed	0.61	224.63	224.89	224.82	224.91	0.003601	0.56	1.48	10.77	0.41
Reach18	1009.29	25 Year	DonPhaseII_Final_Baseline	0.51	224.63	224.87	224.81	224.88	0.004250	0.56	1.22	10.50	0.44
Reach18	1009.29	25 Year	DonPhaseII_Final_Proposed	0.51	224.63	224.87	224.81	224.88	0.004250	0.56	1.22	10.50	0.44
Reach18	1009.29	10 Year	DonPhaseII_Final_Baseline	0.44	224.63	224.85	224.79	224.86	0.004743	0.55	1.04	10.21	0.46
Reach18	1009.29	10 Year	DonPhaseII_Final_Proposed	0.44	224.63	224.85	224.79	224.86	0.004743	0.55	1.04	10.21	0.46
Reach18	1009.29	5 Year	DonPhaseII_Final_Baseline	0.39	224.63	224.84	224.79	224.85	0.005255	0.54	0.91	9.82	0.47
Reach18	1009.29	5 Year	DonPhaseII_Final_Proposed	0.39	224.63	224.84	224.79	224.85	0.005255	0.54	0.91	9.82	0.47
Reach18	1009.29	2 Year	DonPhaseII_Final_Baseline	0.32	224.63	224.81	224.77	224.83	0.006602	0.55	0.69	8.59	0.52
Reach18	1009.29	2 Year	DonPhaseII_Final_Proposed	0.32	224.63	224.81	224.77	224.83	0.006602	0.55	0.69	8.59	0.52
Reach18	911.31	Regional	DonPhaseII_Final_Baseline	54.32	224.10	225.69		225.82	0.006381	3.00	56.15	74.11	0.78
Reach18	911.31	Regional	DonPhaseII_Final_Proposed	54.32	224.10	225.69		225.82	0.006381	3.00	56.15	74.11	0.78
Reach18	911.31	350 Year	DonPhaseII_Final_Baseline	5.90	224.10	224.97	224.97	225.09	0.005795	1.86	9.00	51.66	0.66
Reach18	911.31	350 Year	DonPhaseII_Final_Proposed	5.90	224.10	224.97	224.97	225.09	0.005795	1.86	9.00	51.66	0.66
Reach18	911.31	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	224.10	224.46	224.42	224.54	0.011042	1.29	0.91	4.15	0.77
Reach18	911.31	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	224.10	224.46	224.42	224.54	0.011042	1.29	0.91	4.15	0.77
Reach18	911.31	100 Year	DonPhaseII_Final_Baseline	0.79	224.10	224.44	224.38	224.50	0.007872	1.05	0.85	4.04	0.65
Reach18	911.31	100 Year	DonPhaseII_Final_Proposed	0.79	224.10	224.44	224.38	224.50	0.007872	1.05	0.85	4.04	0.65
Reach18	911.31	50 Year	DonPhaseII_Final_Baseline	0.61	224.10	224.42	224.35	224.46	0.005983	0.87	0.78	3.91	0.56
Reach18	911.31	50 Year	DonPhaseII_Final_Proposed	0.61	224.10	224.42	224.35	224.46	0.005983	0.87	0.78	3.91	0.56
Reach18	911.31	25 Year	DonPhaseII_Final_Baseline	0.51	224.10	224.41	224.33	224.44	0.004859	0.77	0.74	3.83	0.50
Reach18	911.31	25 Year	DonPhaseII_Final_Proposed	0.51	224.10	224.41	224.33	224.44	0.004859	0.77	0.74	3.83	0.50
Reach18	911.31	10 Year	DonPhaseII_Final_Baseline	0.44	224.10	224.40	224.31	224.43	0.004341	0.70	0.69	3.74	0.47
Reach18	911.31	10 Year	DonPhaseII_Final_Proposed	0.44	224.10	224.40	224.31	224.43	0.004341	0.70	0.69	3.74	0.47
Reach18	911.31	5 Year	DonPhaseII_Final_Baseline	0.39	224.10	224.39	224.30	224.41	0.003866	0.64	0.66	3.68	0.44
Reach18	911.31	5 Year	DonPhaseII_Final_Proposed	0.39	224.10	224.39	224.30	224.41	0.003866	0.64	0.66	3.68	0.44
Reach18	911.31	2 Year	DonPhaseII_Final_Baseline	0.32	224.10	224.38	224.29	224.40	0.003173	0.56	0.61	3.58	0.39
Reach18	911.31	2 Year	DonPhaseII_Final_Proposed	0.32	224.10	224.38	224.29	224.40	0.003173	0.56	0.61	3.58	0.39
Reach18	821.26	Regional	DonPhaseII_Final_Baseline	54.32	223.67	225.52		225.56	0.001658	1.73	91.81	86.16	0.41
Reach18	821.26	Regional	DonPhaseII_Final_Proposed	54.32	223.67	225.52		225.56	0.001658	1.73	91.81	86.16	0.41
Reach18	821.26	350 Year	DonPhaseII_Final_Baseline	5.90	223.67	224.48		224.50	0.001866	1.04	15.18	44.83	0.38
Reach18	821.26	350 Year	DonPhaseII_Final_Proposed	5.90	223.67	224.48		224.50	0.001866	1.04	15.18	44.83	0.38
Reach18	821.26	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	223.67	224.01		224.02	0.003298	0.74	2.72	15.07	0.43
Reach18	821.26	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	223.67	224.01		224.02	0.003298	0.74	2.72	15.07	0.43
Reach18	821.26	100 Year	DonPhaseII_Final_Baseline	0.79	223.67	223.96		223.98	0.004241	0.75	2.01	14.60	0.47
Reach18	821.26	100 Year	DonPhaseII_Final_Proposed	0.79	223.67	223.96		223.98	0.004241	0.75	2.01	14.60	0.47
Reach18	821.26	50 Year	DonPhaseII_Final_Baseline	0.61	223.67	223.91		223.93	0.005638	0.75	1.39	12.24	0.53
Reach18	821.26	50 Year	DonPhaseII_Final_Proposed	0.61	223.67	223.91		223.93	0.005638	0.75	1.39	12.24	0.53
Reach18	821.26	25 Year	DonPhaseII_Final_Baseline	0.51	223.67	223.88		223.91	0.007357	0.78	1.05	10.33	0.59
Reach18	821.26	25 Year	DonPhaseII_Final_Proposed	0.51	223.67	223.88		223.91	0.007357	0.78	1.05	10.33	0.59
Reach18	821.26	10 Year	DonPhaseII_Final_Baseline	0.44	223.67	223.86		223.89	0.008730	0.78	0.85	8.83	0.63
Reach18	821.26	10 Year	DonPhaseII_Final_Proposed	0.44	223.67	223.86		223.89	0.008730	0.78	0.85	8.83	0.63
Reach18	821.26	5 Year	DonPhaseII_Final_Baseline	0.39	223.67	223.84		223.87	0.010620	0.79	0.70	7.54	0.68
Reach18	821.26	5 Year	DonPhaseII_Final_Proposed	0.39	223.67	223.84		223.87	0.010620	0.79	0.70	7.54	0.68
Reach18	821.26	2 Year	DonPhaseII_Final_Baseline	0.32	223.67	223.82		223.85	0.015765	0.84	0.52	6.26	0.79
Reach18	821.26	2 Year	DonPhaseII_Final_Proposed	0.32	223.67	223.82		223.85	0.015765	0.84	0.52	6.26	0.79

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	712.52	Regional	DonPhaseII_Final_Baseline	54.32	223.29	225.06	224.93	225.28	0.007155	3.49	43.70	46.83	0.84
Reach18	712.52	Regional	DonPhaseII_Final_Proposed	54.32	223.29	225.06	224.93	225.28	0.007155	3.49	43.70	46.83	0.84
Reach18	712.52	350 Year	DonPhaseII_Final_Baseline	5.90	223.29	224.15	224.08	224.24	0.004479	1.69	8.52	27.29	0.59
Reach18	712.52	350 Year	DonPhaseII_Final_Proposed	5.90	223.29	224.15	224.08	224.24	0.004479	1.69	8.52	27.29	0.59
Reach18	712.52	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	223.29	223.81	223.56	223.83	0.001319	0.65	2.29	6.92	0.29
Reach18	712.52	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	223.29	223.81	223.56	223.83	0.001319	0.65	2.29	6.92	0.29
Reach18	712.52	100 Year	DonPhaseII_Final_Baseline	0.79	223.29	223.77	223.52	223.78	0.001124	0.56	1.98	6.43	0.27
Reach18	712.52	100 Year	DonPhaseII_Final_Proposed	0.79	223.29	223.77	223.52	223.78	0.001124	0.56	1.98	6.43	0.27
Reach18	712.52	50 Year	DonPhaseII_Final_Baseline	0.61	223.29	223.72	223.49	223.73	0.000991	0.49	1.69	5.95	0.25
Reach18	712.52	50 Year	DonPhaseII_Final_Proposed	0.61	223.29	223.72	223.49	223.73	0.000991	0.49	1.69	5.95	0.25
Reach18	712.52	25 Year	DonPhaseII_Final_Baseline	0.51	223.29	223.69	223.47	223.70	0.000908	0.44	1.52	5.64	0.23
Reach18	712.52	25 Year	DonPhaseII_Final_Proposed	0.51	223.29	223.69	223.47	223.70	0.000908	0.44	1.52	5.64	0.23
Reach18	712.52	10 Year	DonPhaseII_Final_Baseline	0.44	223.29	223.67	223.45	223.68	0.000856	0.41	1.39	5.39	0.22
Reach18	712.52	10 Year	DonPhaseII_Final_Proposed	0.44	223.29	223.67	223.45	223.68	0.000856	0.41	1.39	5.39	0.22
Reach18	712.52	5 Year	DonPhaseII_Final_Baseline	0.39	223.29	223.65	223.44	223.66	0.000819	0.39	1.29	5.22	0.22
Reach18	712.52	5 Year	DonPhaseII_Final_Proposed	0.39	223.29	223.65	223.44	223.66	0.000819	0.39	1.29	5.22	0.22
Reach18	712.52	2 Year	DonPhaseII_Final_Baseline	0.32	223.29	223.62	223.43	223.63	0.000751	0.35	1.15	5.01	0.20
Reach18	712.52	2 Year	DonPhaseII_Final_Proposed	0.32	223.29	223.62	223.43	223.63	0.000751	0.35	1.15	5.01	0.20
Reach18	600	Regional	DonPhaseII_Final_Baseline	54.32	223.37	224.71		224.77	0.003814	2.09	60.29	57.88	0.59
Reach18	600	Regional	DonPhaseII_Final_Proposed	54.32	223.37	224.71		224.77	0.003814	2.09	60.29	57.88	0.59
Reach18	600	350 Year	DonPhaseII_Final_Baseline	5.90	223.37	223.72		223.73	0.005771	0.98	11.60	34.34	0.57
Reach18	600	350 Year	DonPhaseII_Final_Proposed	5.90	223.37	223.72		223.73	0.005771	0.98	11.60	34.34	0.57
Reach18	600	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	223.37	223.41	223.40	223.43	0.070518	0.47	1.71	26.17	1.21
Reach18	600	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	223.37	223.41	223.40	223.43	0.070518	0.47	1.71	26.17	1.21
Reach18	600	100 Year	DonPhaseII_Final_Baseline	0.79	223.37	223.38	223.38	223.41	0.115750	0.35	1.08	19.63	1.35
Reach18	600	100 Year	DonPhaseII_Final_Proposed	0.79	223.37	223.38	223.38	223.41	0.115750	0.35	1.08	19.63	1.35
Reach18	600	50 Year	DonPhaseII_Final_Baseline	0.61	223.37	223.37	223.37	223.40	0.131344		0.83	14.30	0.00
Reach18	600	50 Year	DonPhaseII_Final_Proposed	0.61	223.37	223.37	223.37	223.40	0.131344		0.83	14.30	0.00
Reach18	600	25 Year	DonPhaseII_Final_Baseline	0.51	223.37	223.36	223.36	223.39	0.151238		0.68	13.06	0.00
Reach18	600	25 Year	DonPhaseII_Final_Proposed	0.51	223.37	223.36	223.36	223.39	0.151238		0.68	13.06	0.00
Reach18	600	10 Year	DonPhaseII_Final_Baseline	0.44	223.37	223.35	223.35	223.38	0.141617		0.62	12.52	0.00
Reach18	600	10 Year	DonPhaseII_Final_Proposed	0.44	223.37	223.35	223.35	223.38	0.141617		0.62	12.52	0.00
Reach18	600	5 Year	DonPhaseII_Final_Baseline	0.39	223.37	223.35	223.35	223.37	0.132150		0.58	12.13	0.00
Reach18	600	5 Year	DonPhaseII_Final_Proposed	0.39	223.37	223.35	223.35	223.37	0.132150		0.58	12.13	0.00
Reach18	600	2 Year	DonPhaseII_Final_Baseline	0.32	223.37	223.34	223.34	223.37	0.139209		0.48	10.59	0.00
Reach18	600	2 Year	DonPhaseII_Final_Proposed	0.32	223.37	223.34	223.34	223.37	0.139209		0.48	10.59	0.00
Reach18	500	Regional	DonPhaseII_Final_Baseline	54.32	222.93	224.45		224.50	0.002145	1.73	72.53	63.69	0.45
Reach18	500	Regional	DonPhaseII_Final_Proposed	54.32	222.93	224.45		224.50	0.002145	1.73	72.53	63.69	0.45
Reach18	500	350 Year	DonPhaseII_Final_Baseline	5.90	222.93	223.52		223.53	0.001071	0.64	20.66	48.45	0.27
Reach18	500	350 Year	DonPhaseII_Final_Proposed	5.90	222.93	223.52		223.53	0.001071	0.64	20.66	48.45	0.27
Reach18	500	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	222.93	223.24		223.24	0.000576	0.30	7.91	41.88	0.18
Reach18	500	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	222.93	223.24		223.24	0.000576	0.30	7.91	41.88	0.18
Reach18	500	100 Year	DonPhaseII_Final_Baseline	0.79	222.93	223.21		223.21	0.000523	0.26	6.83	41.18	0.17
Reach18	500	100 Year	DonPhaseII_Final_Proposed	0.79	222.93	223.21		223.21	0.000523	0.26	6.83	41.18	0.17
Reach18	500	50 Year	DonPhaseII_Final_Baseline	0.61	222.93	223.19		223.19	0.000466	0.24	5.93	40.40	0.15
Reach18	500	50 Year	DonPhaseII_Final_Proposed	0.61	222.93	223.19		223.19	0.000466	0.24	5.93	40.40	0.15
Reach18	500	25 Year	DonPhaseII_Final_Baseline	0.51	222.93	223.18		223.18	0.000432	0.22	5.36	39.86	0.15

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	500	25 Year	DonPhaseII_Final_Proposed	0.51	222.93	223.18		223.18	0.000432	0.22	5.36	39.86	0.15
Reach18	500	10 Year	DonPhaseII_Final_Baseline	0.44	222.93	223.16		223.17	0.000405	0.20	4.93	39.39	0.14
Reach18	500	10 Year	DonPhaseII_Final_Proposed	0.44	222.93	223.16		223.17	0.000405	0.20	4.93	39.39	0.14
Reach18	500	5 Year	DonPhaseII_Final_Baseline	0.39	222.93	223.16		223.16	0.000390	0.19	4.58	39.00	0.14
Reach18	500	5 Year	DonPhaseII_Final_Proposed	0.39	222.93	223.16		223.16	0.000390	0.19	4.58	39.00	0.14
Reach18	500	2 Year	DonPhaseII_Final_Baseline	0.32	222.93	223.14		223.14	0.000358	0.18	4.08	38.27	0.13
Reach18	500	2 Year	DonPhaseII_Final_Proposed	0.32	222.93	223.14		223.14	0.000358	0.18	4.08	38.27	0.13
Reach18	400	Regional	DonPhaseII_Final_Baseline	54.32	222.88	224.33		224.37	0.000886	1.03	84.88	71.23	0.28
Reach18	400	Regional	DonPhaseII_Final_Proposed	54.32	222.88	224.33		224.37	0.000886	1.03	84.88	71.23	0.28
Reach18	400	350 Year	DonPhaseII_Final_Baseline	5.90	222.88	223.47		223.47	0.000404	0.34	26.45	63.23	0.16
Reach18	400	350 Year	DonPhaseII_Final_Proposed	5.90	222.88	223.47		223.47	0.000404	0.34	26.45	63.23	0.16
Reach18	400	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	222.88	223.21		223.21	0.000213	0.14	10.63	58.78	0.10
Reach18	400	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	222.88	223.21		223.21	0.000213	0.14	10.63	58.78	0.10
Reach18	400	100 Year	DonPhaseII_Final_Baseline	0.79	222.88	223.18		223.18	0.000194	0.13	9.26	58.35	0.10
Reach18	400	100 Year	DonPhaseII_Final_Proposed	0.79	222.88	223.18		223.18	0.000194	0.13	9.26	58.35	0.10
Reach18	400	50 Year	DonPhaseII_Final_Baseline	0.61	222.88	223.16		223.17	0.000171	0.11	8.16	58.01	0.09
Reach18	400	50 Year	DonPhaseII_Final_Proposed	0.61	222.88	223.16		223.17	0.000171	0.11	8.16	58.01	0.09
Reach18	400	25 Year	DonPhaseII_Final_Baseline	0.51	222.88	223.15		223.15	0.000157	0.10	7.45	57.47	0.08
Reach18	400	25 Year	DonPhaseII_Final_Proposed	0.51	222.88	223.15		223.15	0.000157	0.10	7.45	57.47	0.08
Reach18	400	10 Year	DonPhaseII_Final_Baseline	0.44	222.88	223.14		223.14	0.000146	0.09	6.92	56.91	0.08
Reach18	400	10 Year	DonPhaseII_Final_Proposed	0.44	222.88	223.14		223.14	0.000146	0.09	6.92	56.91	0.08
Reach18	400	5 Year	DonPhaseII_Final_Baseline	0.39	222.88	223.13		223.14	0.000143	0.09	6.44	56.38	0.08
Reach18	400	5 Year	DonPhaseII_Final_Proposed	0.39	222.88	223.13		223.14	0.000143	0.09	6.44	56.38	0.08
Reach18	400	2 Year	DonPhaseII_Final_Baseline	0.32	222.88	223.12		223.12	0.000133	0.08	5.80	55.74	0.07
Reach18	400	2 Year	DonPhaseII_Final_Proposed	0.32	222.88	223.12		223.12	0.000133	0.08	5.80	55.74	0.07
Reach18	300	Regional	DonPhaseII_Final_Baseline	54.32	223.02	224.16		224.24	0.002035	1.38	51.63	53.64	0.42
Reach18	300	Regional	DonPhaseII_Final_Proposed	54.32	223.02	224.16		224.24	0.002035	1.38	51.63	53.64	0.42
Reach18	300	350 Year	DonPhaseII_Final_Baseline	5.90	223.02	223.39		223.40	0.001336	0.51	14.09	44.12	0.28
Reach18	300	350 Year	DonPhaseII_Final_Proposed	5.90	223.02	223.39		223.40	0.001336	0.51	14.09	44.12	0.28
Reach18	300	1.3*100 Year	DonPhaseII_Final_Baseline	1.03	223.02	223.16		223.16	0.002020	0.28	4.11	39.06	0.28
Reach18	300	1.3*100 Year	DonPhaseII_Final_Proposed	1.03	223.02	223.16		223.16	0.002020	0.28	4.11	39.06	0.28
Reach18	300	100 Year	DonPhaseII_Final_Baseline	0.79	223.02	223.14		223.14	0.002391	0.26	3.32	38.11	0.29
Reach18	300	100 Year	DonPhaseII_Final_Proposed	0.79	223.02	223.14		223.14	0.002391	0.26	3.32	38.11	0.29
Reach18	300	50 Year	DonPhaseII_Final_Baseline	0.61	223.02	223.12		223.12	0.003074	0.25	2.63	36.77	0.32
Reach18	300	50 Year	DonPhaseII_Final_Proposed	0.61	223.02	223.12		223.12	0.003074	0.25	2.63	36.77	0.32
Reach18	300	25 Year	DonPhaseII_Final_Baseline	0.51	223.02	223.11		223.11	0.003839	0.25	2.21	35.90	0.35
Reach18	300	25 Year	DonPhaseII_Final_Proposed	0.51	223.02	223.11		223.11	0.003839	0.25	2.21	35.90	0.35
Reach18	300	10 Year	DonPhaseII_Final_Baseline	0.44	223.02	223.10		223.10	0.004628	0.25	1.89	34.59	0.37
Reach18	300	10 Year	DonPhaseII_Final_Proposed	0.44	223.02	223.10		223.10	0.004628	0.25	1.89	34.59	0.37
Reach18	300	5 Year	DonPhaseII_Final_Baseline	0.39	223.02	223.09		223.10	0.005139	0.24	1.70	34.01	0.38
Reach18	300	5 Year	DonPhaseII_Final_Proposed	0.39	223.02	223.09		223.10	0.005139	0.24	1.70	34.01	0.38
Reach18	300	2 Year	DonPhaseII_Final_Baseline	0.32	223.02	223.08		223.09	0.006927	0.24	1.36	32.98	0.43
Reach18	300	2 Year	DonPhaseII_Final_Proposed	0.32	223.02	223.08		223.09	0.006927	0.24	1.36	32.98	0.43
Reach18	200.31	Regional	DonPhaseII_Final_Baseline	54.32	222.81	224.04		224.09	0.001090	1.05	60.93	61.79	0.31
Reach18	200.31	Regional	DonPhaseII_Final_Proposed	54.32	222.81	224.04		224.09	0.001090	1.05	60.93	61.79	0.31
Reach18	200.31	350 Year	DonPhaseII_Final_Baseline	5.90	222.81	223.35		223.35	0.000274	0.29	22.39	52.24	0.13

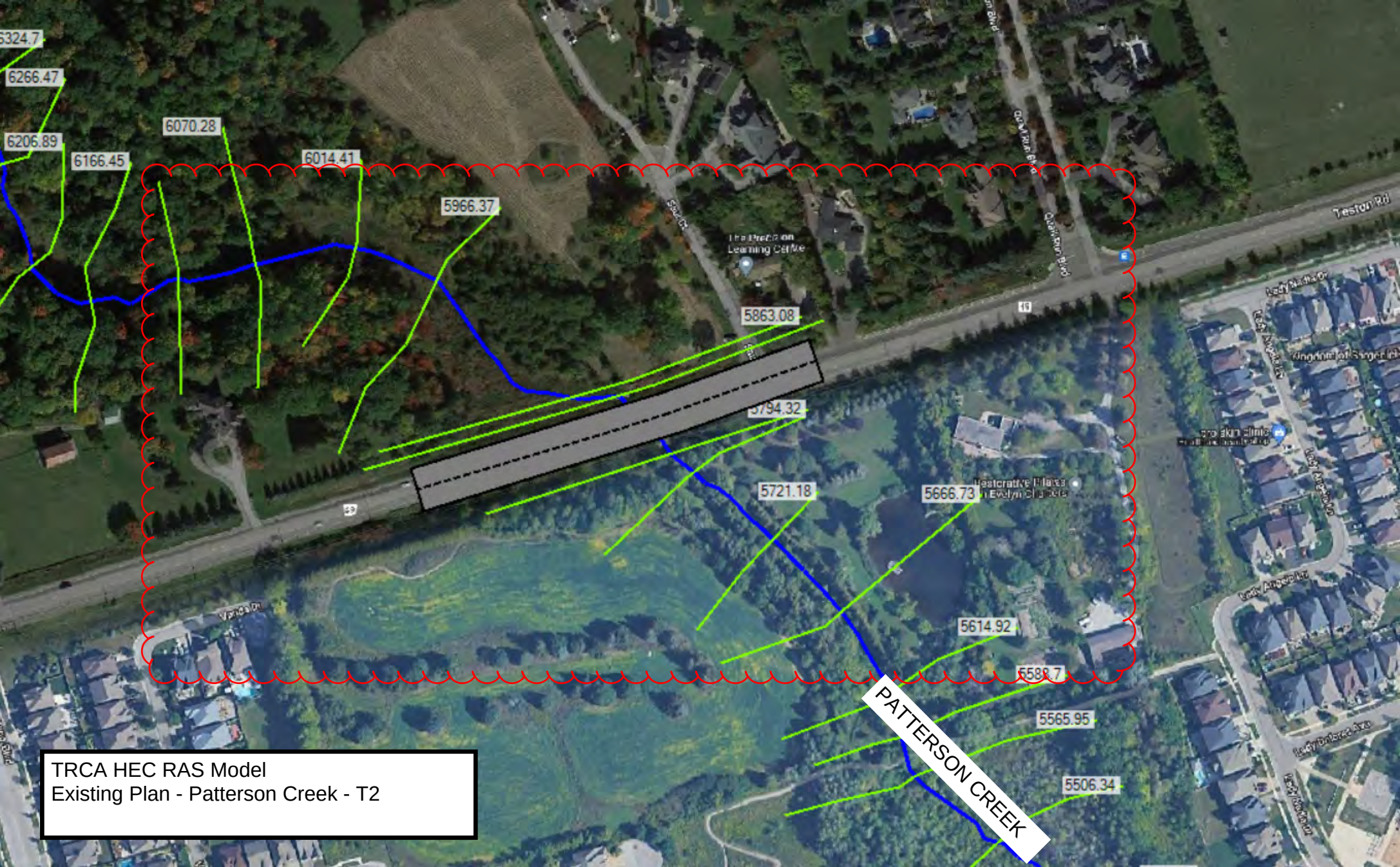
HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	200.31	350 Year	DonPhaselI_Final_Proposed	5.90	222.81	223.35		223.35	0.000274	0.29	22.39	52.24	0.13
Reach18	200.31	1.3*100 Year	DonPhaselI_Final_Baseline	1.03	222.81	223.14		223.14	0.000055	0.09	12.06	47.75	0.05
Reach18	200.31	1.3*100 Year	DonPhaselI_Final_Proposed	1.03	222.81	223.14		223.14	0.000055	0.09	12.06	47.75	0.05
Reach18	200.31	100 Year	DonPhaselI_Final_Baseline	0.79	222.81	223.13		223.13	0.000040	0.07	11.24	46.82	0.05
Reach18	200.31	100 Year	DonPhaselI_Final_Proposed	0.79	222.81	223.13		223.13	0.000040	0.07	11.24	46.82	0.05
Reach18	200.31	50 Year	DonPhaselI_Final_Baseline	0.61	222.81	223.11		223.11	0.000030	0.06	10.50	46.27	0.04
Reach18	200.31	50 Year	DonPhaselI_Final_Proposed	0.61	222.81	223.11		223.11	0.000030	0.06	10.50	46.27	0.04
Reach18	200.31	25 Year	DonPhaselI_Final_Baseline	0.51	222.81	223.10		223.10	0.000024	0.05	10.04	46.06	0.04
Reach18	200.31	25 Year	DonPhaselI_Final_Proposed	0.51	222.81	223.10		223.10	0.000024	0.05	10.04	46.06	0.04
Reach18	200.31	10 Year	DonPhaselI_Final_Baseline	0.44	222.81	223.09		223.09	0.000020	0.05	9.68	45.89	0.03
Reach18	200.31	10 Year	DonPhaselI_Final_Proposed	0.44	222.81	223.09		223.09	0.000020	0.05	9.68	45.89	0.03
Reach18	200.31	5 Year	DonPhaselI_Final_Baseline	0.39	222.81	223.09		223.09	0.000017	0.04	9.46	45.79	0.03
Reach18	200.31	5 Year	DonPhaselI_Final_Proposed	0.39	222.81	223.09		223.09	0.000017	0.04	9.46	45.79	0.03
Reach18	200.31	2 Year	DonPhaselI_Final_Baseline	0.32	222.81	223.08		223.08	0.000013	0.04	9.07	45.61	0.03
Reach18	200.31	2 Year	DonPhaselI_Final_Proposed	0.32	222.81	223.08		223.08	0.000013	0.04	9.07	45.61	0.03
Reach18	100	Regional	DonPhaselI_Final_Baseline	54.32	222.83	223.92		223.97	0.001423	1.04	55.85	64.32	0.34
Reach18	100	Regional	DonPhaselI_Final_Proposed	54.32	222.83	223.92		223.97	0.001423	1.04	55.85	64.32	0.34
Reach18	100	350 Year	DonPhaselI_Final_Baseline	5.90	222.83	223.31		223.31	0.000514	0.32	19.24	57.62	0.17
Reach18	100	350 Year	DonPhaselI_Final_Proposed	5.90	222.83	223.31		223.31	0.000514	0.32	19.24	57.62	0.17
Reach18	100	1.3*100 Year	DonPhaselI_Final_Baseline	1.03	222.83	223.13		223.14	0.000166	0.11	9.34	56.38	0.09
Reach18	100	1.3*100 Year	DonPhaselI_Final_Proposed	1.03	222.83	223.13		223.14	0.000166	0.11	9.34	56.38	0.09
Reach18	100	100 Year	DonPhaselI_Final_Baseline	0.79	222.83	223.12		223.12	0.000133	0.10	8.48	56.14	0.08
Reach18	100	100 Year	DonPhaselI_Final_Proposed	0.79	222.83	223.12		223.12	0.000133	0.10	8.48	56.14	0.08
Reach18	100	50 Year	DonPhaselI_Final_Baseline	0.61	222.83	223.11		223.11	0.000103	0.08	7.70	54.00	0.07
Reach18	100	50 Year	DonPhaselI_Final_Proposed	0.61	222.83	223.11		223.11	0.000103	0.08	7.70	54.00	0.07
Reach18	100	25 Year	DonPhaselI_Final_Baseline	0.51	222.83	223.10		223.10	0.000086	0.07	7.22	52.60	0.06
Reach18	100	25 Year	DonPhaselI_Final_Proposed	0.51	222.83	223.10		223.10	0.000086	0.07	7.22	52.60	0.06
Reach18	100	10 Year	DonPhaselI_Final_Baseline	0.44	222.83	223.09		223.09	0.000073	0.07	6.85	51.63	0.06
Reach18	100	10 Year	DonPhaselI_Final_Proposed	0.44	222.83	223.09		223.09	0.000073	0.07	6.85	51.63	0.06
Reach18	100	5 Year	DonPhaselI_Final_Baseline	0.39	222.83	223.09		223.09	0.000063	0.06	6.63	50.88	0.05
Reach18	100	5 Year	DonPhaselI_Final_Proposed	0.39	222.83	223.09		223.09	0.000063	0.06	6.63	50.88	0.05
Reach18	100	2 Year	DonPhaselI_Final_Baseline	0.32	222.83	223.08		223.08	0.000046	0.05	6.24	47.59	0.04
Reach18	100	2 Year	DonPhaselI_Final_Proposed	0.32	222.83	223.08		223.08	0.000046	0.05	6.24	47.59	0.04
Reach18	30.82	Regional	DonPhaselI_Final_Baseline	54.32	222.99	223.50	223.50	223.72	0.015858	2.11	26.65	60.87	1.01
Reach18	30.82	Regional	DonPhaselI_Final_Proposed	54.32	222.99	223.50	223.50	223.72	0.015858	2.11	26.65	60.87	1.01
Reach18	30.82	350 Year	DonPhaselI_Final_Baseline	5.90	222.99	223.15	223.15	223.20	0.025705	1.00	5.98	58.44	1.00
Reach18	30.82	350 Year	DonPhaselI_Final_Proposed	5.90	222.99	223.15	223.15	223.20	0.025705	1.00	5.98	58.44	1.00
Reach18	30.82	1.3*100 Year	DonPhaselI_Final_Baseline	1.03	222.99	223.08	223.08	223.09	0.032790	0.55	1.88	53.41	0.94
Reach18	30.82	1.3*100 Year	DonPhaselI_Final_Proposed	1.03	222.99	223.08	223.08	223.09	0.032790	0.55	1.88	53.41	0.94
Reach18	30.82	100 Year	DonPhaselI_Final_Baseline	0.79	222.99	223.07	223.07	223.09	0.050901	0.58	1.37	49.95	1.13
Reach18	30.82	100 Year	DonPhaselI_Final_Proposed	0.79	222.99	223.07	223.07	223.09	0.050901	0.58	1.37	49.95	1.13
Reach18	30.82	50 Year	DonPhaselI_Final_Baseline	0.61	222.99	223.06	223.06	223.08	0.048904	0.54	1.16	46.44	1.09
Reach18	30.82	50 Year	DonPhaselI_Final_Proposed	0.61	222.99	223.06	223.06	223.08	0.048904	0.54	1.16	46.44	1.09
Reach18	30.82	25 Year	DonPhaselI_Final_Baseline	0.51	222.99	223.06	223.06	223.07	0.033831	0.45	1.16	46.51	0.91
Reach18	30.82	25 Year	DonPhaselI_Final_Proposed	0.51	222.99	223.06	223.06	223.07	0.033831	0.45	1.16	46.51	0.91
Reach18	30.82	10 Year	DonPhaselI_Final_Baseline	0.44	222.99	223.06	223.06	223.07	0.033102	0.43	1.05	44.65	0.89
Reach18	30.82	10 Year	DonPhaselI_Final_Proposed	0.44	222.99	223.06	223.06	223.07	0.033102	0.43	1.05	44.65	0.89

HEC-RAS River: EastDon Reach: Reach18 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
Reach18	30.82	5 Year	DonPhaselI_Final_Baseline	0.39	222.99	223.06	223.06	223.07	0.045198	0.47	0.85	39.00	1.02
Reach18	30.82	5 Year	DonPhaselI_Final_Proposed	0.39	222.99	223.06	223.06	223.07	0.045198	0.47	0.85	39.00	1.02
Reach18	30.82	2 Year	DonPhaselI_Final_Baseline	0.32	222.99	223.05	223.05	223.06	0.043683	0.44	0.74	37.08	0.99
Reach18	30.82	2 Year	DonPhaselI_Final_Proposed	0.32	222.99	223.05	223.05	223.06	0.043683	0.44	0.74	37.08	0.99

HECRAS Output
Patterson/ McNair Creek



TRCA HEC RAS Model
Existing Plan - Patterson Creek - T2

HEC-RAS River: PattersonCk Reach: T2

Reach	River Sta	Profile	Plan	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
T2	7266.38	Regional	DonPhaseII_Final_Baseline	10.14	268.31	269.68	1.24	270.10	0.010121	3.21	4.39	11.21	0.92
T2	7266.38	Regional	DonPhaseII_Final_Proposed	10.14	268.31	269.68	1.24	270.10	0.010121	3.21	4.39	11.21	0.92
T2	7266.38	350 Year	DonPhaseII_Final_Baseline	0.92	268.31	268.72	0.28	268.85	0.018872	1.63	0.58	2.36	0.98
T2	7266.38	350 Year	DonPhaseII_Final_Proposed	0.92	268.31	268.72	0.28	268.85	0.018872	1.63	0.58	2.36	0.98
T2	7266.38	100 Year	DonPhaseII_Final_Baseline	0.21	268.31	268.52	0.12	268.59	0.025758	1.11	0.19	1.54	1.00
T2	7266.38	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	268.31	268.55	0.14	268.62	0.024868	1.17	0.23	1.68	1.00
T2	7266.38	50 Year	DonPhaseII_Final_Baseline	0.19	268.31	268.51	0.12	268.57	0.025824	1.08	0.18	1.49	1.00
T2	7266.38	100 Year	DonPhaseII_Final_Proposed	0.21	268.31	268.52	0.12	268.59	0.025758	1.11	0.19	1.54	1.00
T2	7266.38	25 Year	DonPhaseII_Final_Baseline	0.17	268.31	268.50	0.11	268.56	0.026601	1.06	0.16	1.43	1.01
T2	7266.38	50 Year	DonPhaseII_Final_Proposed	0.19	268.31	268.51	0.12	268.57	0.025824	1.08	0.18	1.49	1.00
T2	7266.38	10 Year	DonPhaseII_Final_Baseline	0.14	268.31	268.49	0.10	268.54	0.027346	1.01	0.14	1.34	1.01
T2	7266.38	25 Year	DonPhaseII_Final_Proposed	0.17	268.31	268.50	0.11	268.56	0.026601	1.06	0.16	1.43	1.01
T2	7266.38	5 Year	DonPhaseII_Final_Baseline	0.12	268.31	268.48	0.10	268.52	0.027683	0.97	0.12	1.28	1.00
T2	7266.38	10 Year	DonPhaseII_Final_Proposed	0.14	268.31	268.49	0.10	268.54	0.027346	1.01	0.14	1.34	1.01
T2	7266.38	2 Year	DonPhaseII_Final_Baseline	0.09	268.31	268.46	0.08	268.50	0.028792	0.91	0.10	1.17	1.00
T2	7266.38	5 Year	DonPhaseII_Final_Proposed	0.12	268.31	268.48	0.10	268.52	0.027683	0.97	0.12	1.28	1.00
T2	7266.38	2 Year	DonPhaseII_Final_Proposed	0.09	268.31	268.46	0.08	268.50	0.028792	0.91	0.10	1.17	1.00
T2	7224.68	Regional	DonPhaseII_Final_Baseline	10.14	267.29	268.50	0.76	268.87	0.014966	2.67	3.87	6.68	0.98
T2	7224.68	Regional	DonPhaseII_Final_Proposed	10.14	267.29	268.50	0.76	268.87	0.014966	2.67	3.87	6.68	0.98
T2	7224.68	350 Year	DonPhaseII_Final_Baseline	0.92	267.29	267.64	0.23	267.76	0.021581	1.53	0.60	2.58	1.01
T2	7224.68	350 Year	DonPhaseII_Final_Proposed	0.92	267.29	267.64	0.23	267.76	0.021581	1.53	0.60	2.58	1.01
T2	7224.68	100 Year	DonPhaseII_Final_Baseline	0.21	267.29	267.53	0.14	267.55	0.007090	0.64	0.33	2.28	0.54
T2	7224.68	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	267.29	267.56	0.16	267.58	0.007134	0.71	0.39	2.35	0.55
T2	7224.68	50 Year	DonPhaseII_Final_Baseline	0.19	267.29	267.52	0.14	267.54	0.006936	0.62	0.31	2.26	0.53
T2	7224.68	100 Year	DonPhaseII_Final_Proposed	0.21	267.29	267.53	0.14	267.55	0.007090	0.64	0.33	2.28	0.54
T2	7224.68	25 Year	DonPhaseII_Final_Baseline	0.17	267.29	267.51	0.13	267.53	0.006973	0.59	0.29	2.23	0.53
T2	7224.68	50 Year	DonPhaseII_Final_Proposed	0.19	267.29	267.52	0.14	267.54	0.006936	0.62	0.31	2.26	0.53
T2	7224.68	10 Year	DonPhaseII_Final_Baseline	0.14	267.29	267.50	0.12	267.51	0.006833	0.55	0.25	2.20	0.52
T2	7224.68	25 Year	DonPhaseII_Final_Proposed	0.17	267.29	267.51	0.13	267.53	0.006973	0.59	0.29	2.23	0.53
T2	7224.68	5 Year	DonPhaseII_Final_Baseline	0.12	267.29	267.49	0.11	267.50	0.006867	0.52	0.23	2.17	0.51
T2	7224.68	10 Year	DonPhaseII_Final_Proposed	0.14	267.29	267.50	0.12	267.51	0.006833	0.55	0.25	2.20	0.52
T2	7224.68	2 Year	DonPhaseII_Final_Baseline	0.09	267.29	267.47	0.09	267.48	0.006997	0.47	0.19	2.12	0.50
T2	7224.68	5 Year	DonPhaseII_Final_Proposed	0.12	267.29	267.49	0.11	267.50	0.006867	0.52	0.23	2.17	0.51
T2	7224.68	2 Year	DonPhaseII_Final_Proposed	0.09	267.29	267.47	0.09	267.48	0.006997	0.47	0.19	2.12	0.50
T2	7165.76	Regional	DonPhaseII_Final_Baseline	10.14	266.51	267.59	1.02	267.63	0.003994	1.24	15.30	26.58	0.39
T2	7165.76	Regional	DonPhaseII_Final_Proposed	10.14	266.51	267.59	1.02	267.63	0.003994	1.24	15.30	26.58	0.39
T2	7165.76	350 Year	DonPhaseII_Final_Baseline	0.92	266.51	267.29	0.72	267.29	0.000181	0.21	8.18	21.84	0.08
T2	7165.76	350 Year	DonPhaseII_Final_Proposed	0.92	266.51	267.29	0.72	267.29	0.000181	0.21	8.18	21.84	0.08
T2	7165.76	100 Year	DonPhaseII_Final_Baseline	0.21	266.51	266.64	0.09	266.68	0.047068	0.93	0.23	2.54	0.99
T2	7165.76	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	266.51	266.66	0.10	266.71	0.047382	1.00	0.27	2.67	0.99
T2	7165.76	50 Year	DonPhaseII_Final_Baseline	0.19	266.51	266.63	0.08	266.67	0.049252	0.92	0.21	2.49	1.01
T2	7165.76	100 Year	DonPhaseII_Final_Proposed	0.21	266.51	266.64	0.09	266.68	0.047068	0.93	0.23	2.54	0.99
T2	7165.76	25 Year	DonPhaseII_Final_Baseline	0.17	266.51	266.62	0.08	266.66	0.048419	0.89	0.19	2.41	1.00
T2	7165.76	50 Year	DonPhaseII_Final_Proposed	0.19	266.51	266.63	0.08	266.67	0.049252	0.92	0.21	2.49	1.01
T2	7165.76	10 Year	DonPhaseII_Final_Baseline	0.14	266.51	266.61	0.07	266.65	0.050920	0.86	0.16	2.25	1.03
T2	7165.76	25 Year	DonPhaseII_Final_Proposed	0.17	266.51	266.62	0.08	266.66	0.048419	0.89	0.19	2.41	1.00
T2	7165.76	5 Year	DonPhaseII_Final_Baseline	0.12	266.51	266.60	0.07	266.64	0.049686	0.82	0.15	2.16	1.01
T2	7165.76	10 Year	DonPhaseII_Final_Proposed	0.14	266.51	266.61	0.07	266.65	0.050920	0.86	0.16	2.25	1.03
T2	7165.76	2 Year	DonPhaseII_Final_Baseline	0.09	266.51	266.59	0.06	266.62	0.047208	0.75	0.12	2.00	0.98
T2	7165.76	5 Year	DonPhaseII_Final_Proposed	0.12	266.51	266.60	0.07	266.64	0.049686	0.82	0.15	2.16	1.01
T2	7165.76	2 Year	DonPhaseII_Final_Proposed	0.09	266.51	266.59	0.06	266.62	0.047208	0.75	0.12	2.00	0.98
T2	7066.34	Regional	DonPhaseII_Final_Baseline	10.14	265.79	267.59	1.77	267.59	0.000083	0.32	66.02	50.40	0.08
T2	7066.34	Regional	DonPhaseII_Final_Proposed	10.14	265.79	267.59	1.77	267.59	0.000083	0.32	66.02	50.40	0.08
T2	7066.34	350 Year	DonPhaseII_Final_Baseline	0.92	265.79	267.29	1.47	267.29	0.000001	0.04	51.90	43.89	0.01
T2	7066.34	350 Year	DonPhaseII_Final_Proposed	0.92	265.79	267.29	1.47	267.29	0.000001	0.04	51.90	43.89	0.01
T2	7066.34	100 Year	DonPhaseII_Final_Baseline	0.21	265.79	266.10	0.29	266.10	0.000022	0.05	7.91	30.70	0.03
T2	7066.34	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	265.79	266.19	0.37	266.19	0.000015	0.05	10.69	31.96	0.02
T2	7066.34	50 Year	DonPhaseII_Final_Baseline	0.19	265.79	266.07	0.26	266.07	0.000026	0.05	7.04	30.13	0.03
T2	7066.34	100 Year	DonPhaseII_Final_Proposed	0.21	265.79	266.10	0.29	266.10	0.000022	0.05	7.91	30.70	0.03
T2	7066.34	25 Year	DonPhaseII_Final_Baseline	0.17	265.79	266.04	0.23	266.04	0.000031	0.05	6.17	29.56	0.03
T2	7066.34	50 Year	DonPhaseII_Final_Proposed	0.19	265.79	266.07	0.26	266.07	0.000026	0.05	7.04	30.13	0.03
T2	7066.34	10 Year	DonPhaseII_Final_Baseline	0.14	265.79	266.00	0.18	266.00	0.000045	0.05	4.85	28.75	0.04
T2	7066.34	25 Year	DonPhaseII_Final_Proposed	0.17	265.79	266.04	0.23	266.04	0.000031	0.05	6.17	29.56	0.03
T2	7066.34	5 Year	DonPhaseII_Final_Baseline	0.12	265.79	265.97	0.15	265.97	0.000062	0.05	3.94	28.03	0.04
T2	7066.34	10 Year	DonPhaseII_Final_Proposed	0.14	265.79	266.00	0.18	266.00	0.000045	0.05	4.85	28.75	0.04
T2	7066.34	2 Year	DonPhaseII_Final_Baseline	0.09	265.79	265.91	0.10	265.91	0.000106	0.05	2.66	23.38	0.05
T2	7066.34	5 Year	DonPhaseII_Final_Proposed	0.12	265.79	265.97	0.15	265.97	0.000062	0.05	3.94	28.03	0.04
T2	7066.34	2 Year	DonPhaseII_Final_Proposed	0.09	265.79	265.91	0.10	265.91	0.000106	0.05	2.66	23.38	0.05
T2	7027.84	Regional	DonPhaseII_Final_Baseline	10.14	265.44	267.59	2.14	267.59	0.000030	0.26	100.76	67.82	0.06
T2	7027.84	Regional	DonPhaseII_Final_Proposed	10.14	265.44	267.59	2.14	267.59	0.000030	0.26	100.76	67.82	0.06
T2	7027.84	350 Year	DonPhaseII_Final_Baseline	0.92	265.44	267.29	1.84	267.29	0.000000	0.03	80.80	65.56	0.01
T2	7027.84	350 Year	DonPhaseII_Final_Proposed	0.92	265.44	267.29	1.84	267.29	0.000000	0.03	80.80	65.56	0.01
T2	7027.84	100 Year	DonPhaseII_Final_Baseline	0.21	265.44	266.10	0.65	266.10	0.000003	0.03	16.54	42.01	0.01
T2	7027.84	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	265.44	266.19	0.74	266.19	0.000002	0.04	20.31	43.16	0.01
T2	7027.84	50 Year	DonPhaseII_Final_Baseline	0.19	265.44	266.07	0.62	266.07	0.000003	0.03	15.34	41.63	0.01
T2	7027.84	100 Year	DonPhaseII_Final_Proposed	0.21	265.44	266.10	0.65	266.10	0.000003	0.03	16.54	42.01	0.01
T2	7027.84	25 Year	DonPhaseII_Final_Baseline	0.17	265.44	266.04	0.59	266.04	0.000003	0.03	14.13	41.23	0.01
T2	7027.84	50 Year	DonPhaseII_Final_Proposed	0.19	265.44	266.07	0.62	266.07	0.000003	0.03	15.34	41.63	0.01
T2	7027.84	10 Year	DonPhaseII_Final_Baseline	0.14	265.44	266.00	0.55	266.00	0.000003	0.03	12.27	40.46	0.01
T2	7027.84	25 Year	DonPhaseII_Final_Proposed	0.17	265.44	266.04	0.59	266.04	0.000003	0.03	14.13	41.23	0.01
T2	7027.84	5 Year	DonPhaseII_Final_Baseline	0.12	265.44	265.97	0.52	265.97	0.000003	0.03	10.99	39.91	0.01
T2	7027.84	10 Year	DonPhaseII_Final_Proposed	0.14	265.44	266.00	0.55	266.00	0.000003	0.03	12.27	40.46	0.01
T2	7027.84	2 Year	DonPhaseII_Final_Baseline	0.09	265.44	265.91	0.47	265.91	0.000003	0.03	8.96	38.77	0.01
T2	7027.84	5 Year	DonPhaseII_Final_Proposed	0.12	265.44	265.97	0.52	265.97	0.000003	0.03	10.99	39.91	0.01
T2	7027.84	2 Year	DonPhaseII_Final_Proposed	0.09	265.44	265.91	0.47	265.91	0.000003	0.03			

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	7019.02	100 Year	DonPhaseII_Final_Proposed	0.21	265.62	266.10	0.45	266.10	0.000045	0.08	3.85	25.60	0.04
T2	7019.02	25 Year	DonPhaseII_Final_Baseline	0.17	265.62	266.04	0.39	266.04	0.000056	0.08	3.12	20.30	0.04
T2	7019.02	50 Year	DonPhaseII_Final_Proposed	0.19	265.62	266.07	0.42	266.07	0.000050	0.08	3.49	22.12	0.04
T2	7019.02	10 Year	DonPhaseII_Final_Baseline	0.14	265.62	266.00	0.35	266.00	0.000066	0.08	2.56	17.57	0.05
T2	7019.02	25 Year	DonPhaseII_Final_Proposed	0.17	265.62	266.04	0.39	266.04	0.000056	0.08	3.12	20.30	0.04
T2	7019.02	5 Year	DonPhaseII_Final_Baseline	0.12	265.62	265.96	0.32	265.97	0.000074	0.08	2.18	13.75	0.05
T2	7019.02	10 Year	DonPhaseII_Final_Proposed	0.14	265.62	266.00	0.35	266.00	0.000066	0.08	2.56	17.57	0.05
T2	7019.02	2 Year	DonPhaseII_Final_Baseline	0.09	265.62	265.91	0.26	265.91	0.000089	0.08	1.63	11.79	0.05
T2	7019.02	5 Year	DonPhaseII_Final_Proposed	0.12	265.62	265.96	0.32	265.97	0.000074	0.08	2.18	13.75	0.05
T2	7019.02	2 Year	DonPhaseII_Final_Proposed	0.09	265.62	265.91	0.26	265.91	0.000089	0.08	1.63	11.79	0.05
T2	7009.56		Culvert										
T2	6985.16	Regional	DonPhaseII_Final_Baseline	10.14	264.24	265.26	0.88	265.56	0.015338	2.84	5.65	16.67	0.97
T2	6985.16	Regional	DonPhaseII_Final_Proposed	10.14	264.24	265.26	0.88	265.56	0.015338	2.84	5.65	16.67	0.97
T2	6985.16	350 Year	DonPhaseII_Final_Baseline	0.92	264.24	264.63	0.25	264.71	0.012625	1.26	0.79	4.22	0.80
T2	6985.16	350 Year	DonPhaseII_Final_Proposed	0.92	264.24	264.63	0.25	264.71	0.012625	1.26	0.79	4.22	0.80
T2	6985.16	100 Year	DonPhaseII_Final_Baseline	0.21	264.24	264.47	0.13	264.50	0.009299	0.70	0.30	2.43	0.62
T2	6985.16	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	264.24	264.49	0.14	264.52	0.010759	0.81	0.34	2.55	0.69
T2	6985.16	50 Year	DonPhaseII_Final_Baseline	0.19	264.24	264.47	0.13	264.49	0.008431	0.66	0.29	2.40	0.59
T2	6985.16	100 Year	DonPhaseII_Final_Proposed	0.21	264.24	264.47	0.13	264.50	0.009299	0.70	0.30	2.43	0.62
T2	6985.16	25 Year	DonPhaseII_Final_Baseline	0.17	264.24	264.47	0.13	264.49	0.006170	0.57	0.30	2.42	0.51
T2	6985.16	50 Year	DonPhaseII_Final_Proposed	0.19	264.24	264.47	0.13	264.49	0.008431	0.66	0.29	2.40	0.59
T2	6985.16	10 Year	DonPhaseII_Final_Baseline	0.14	264.24	264.46	0.12	264.47	0.005532	0.51	0.27	2.34	0.47
T2	6985.16	25 Year	DonPhaseII_Final_Proposed	0.17	264.24	264.47	0.13	264.49	0.006170	0.57	0.30	2.42	0.51
T2	6985.16	5 Year	DonPhaseII_Final_Baseline	0.12	264.24	264.45	0.11	264.46	0.005252	0.48	0.25	2.26	0.46
T2	6985.16	10 Year	DonPhaseII_Final_Proposed	0.14	264.24	264.46	0.12	264.47	0.005532	0.51	0.27	2.34	0.47
T2	6985.16	2 Year	DonPhaseII_Final_Baseline	0.09	264.24	264.43	0.10	264.44	0.004696	0.43	0.21	2.12	0.43
T2	6985.16	5 Year	DonPhaseII_Final_Proposed	0.12	264.24	264.45	0.11	264.46	0.005252	0.48	0.25	2.26	0.46
T2	6985.16	2 Year	DonPhaseII_Final_Proposed	0.09	264.24	264.43	0.10	264.44	0.004696	0.43	0.21	2.12	0.43
T2	6974.07	Regional	DonPhaseII_Final_Baseline	10.14	264.23	264.80	0.50	264.89	0.019279	1.91	9.97	29.32	0.86
T2	6974.07	Regional	DonPhaseII_Final_Proposed	10.14	264.23	264.80	0.50	264.89	0.019279	1.91	9.97	29.32	0.86
T2	6974.07	350 Year	DonPhaseII_Final_Baseline	0.92	264.23	264.44	0.14	264.49	0.027569	1.13	1.33	14.85	0.95
T2	6974.07	350 Year	DonPhaseII_Final_Proposed	0.92	264.23	264.44	0.14	264.49	0.027569	1.13	1.33	14.85	0.95
T2	6974.07	100 Year	DonPhaseII_Final_Baseline	0.21	264.23	264.40	0.09	264.40	0.006428	0.45	0.66	10.59	0.47
T2	6974.07	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	264.23	264.41	0.11	264.42	0.006446	0.48	0.85	13.51	0.47
T2	6974.07	50 Year	DonPhaseII_Final_Baseline	0.19	264.23	264.39	0.08	264.40	0.007792	0.48	0.55	9.02	0.53
T2	6974.07	100 Year	DonPhaseII_Final_Proposed	0.21	264.23	264.40	0.09	264.40	0.006428	0.45	0.66	10.59	0.47
T2	6974.07	25 Year	DonPhaseII_Final_Baseline	0.17	264.23	264.36	0.07	264.38	0.019635	0.68	0.33	6.23	0.83
T2	6974.07	50 Year	DonPhaseII_Final_Proposed	0.19	264.23	264.39	0.08	264.40	0.007792	0.48	0.55	9.02	0.53
T2	6974.07	10 Year	DonPhaseII_Final_Baseline	0.14	264.23	264.35	0.06	264.37	0.021122	0.66	0.27	5.53	0.84
T2	6974.07	25 Year	DonPhaseII_Final_Proposed	0.17	264.23	264.36	0.07	264.38	0.019635	0.68	0.33	6.23	0.83
T2	6974.07	5 Year	DonPhaseII_Final_Baseline	0.12	264.23	264.34	0.06	264.36	0.021236	0.64	0.24	5.09	0.83
T2	6974.07	10 Year	DonPhaseII_Final_Proposed	0.14	264.23	264.35	0.06	264.37	0.021122	0.66	0.27	5.53	0.84
T2	6974.07	2 Year	DonPhaseII_Final_Baseline	0.09	264.23	264.33	0.05	264.34	0.022483	0.62	0.18	4.19	0.84
T2	6974.07	5 Year	DonPhaseII_Final_Proposed	0.12	264.23	264.34	0.06	264.36	0.021236	0.64	0.24	5.09	0.83
T2	6974.07	2 Year	DonPhaseII_Final_Proposed	0.09	264.23	264.33	0.05	264.34	0.022483	0.62	0.18	4.19	0.84
T2	6928.68	Regional	DonPhaseII_Final_Baseline	10.14	263.65	264.12	0.46	264.19	0.012544	1.91	10.66	22.10	0.90
T2	6928.68	Regional	DonPhaseII_Final_Proposed	10.14	263.65	264.12	0.46	264.19	0.012544	1.91	10.66	22.10	0.90
T2	6928.68	350 Year	DonPhaseII_Final_Baseline	0.92	263.65	263.84	0.17	263.84	0.001540	0.35	4.61	20.06	0.27
T2	6928.68	350 Year	DonPhaseII_Final_Proposed	0.92	263.65	263.84	0.17	263.84	0.001540	0.35	4.61	20.06	0.27
T2	6928.68	100 Year	DonPhaseII_Final_Baseline	0.21	263.65	263.59		263.62	0.133783		0.33	7.43	0.00
T2	6928.68	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	263.65	263.60		263.63	0.139315		0.40	8.47	0.00
T2	6928.68	50 Year	DonPhaseII_Final_Baseline	0.19	263.65	263.60		263.62	0.064607		0.41	8.61	0.00
T2	6928.68	100 Year	DonPhaseII_Final_Proposed	0.21	263.65	263.59		263.62	0.133783		0.33	7.43	0.00
T2	6928.68	25 Year	DonPhaseII_Final_Baseline	0.17	263.65	263.63		263.64	0.013694		0.77	14.64	0.00
T2	6928.68	50 Year	DonPhaseII_Final_Proposed	0.19	263.65	263.60		263.62	0.064607		0.41	8.61	0.00
T2	6928.68	10 Year	DonPhaseII_Final_Baseline	0.14	263.65	263.63		263.63	0.012749		0.69	14.29	0.00
T2	6928.68	25 Year	DonPhaseII_Final_Proposed	0.17	263.65	263.63		263.64	0.013694		0.77	14.64	0.00
T2	6928.68	5 Year	DonPhaseII_Final_Baseline	0.12	263.65	263.62		263.62	0.012571		0.62	13.98	0.00
T2	6928.68	10 Year	DonPhaseII_Final_Proposed	0.14	263.65	263.63		263.63	0.012749		0.69	14.29	0.00
T2	6928.68	2 Year	DonPhaseII_Final_Baseline	0.09	263.65	263.61		263.61	0.012054		0.44	9.18	0.00
T2	6928.68	5 Year	DonPhaseII_Final_Proposed	0.12	263.65	263.62		263.62	0.012571		0.62	13.98	0.00
T2	6928.68	2 Year	DonPhaseII_Final_Proposed	0.09	263.65	263.61		263.61	0.012054		0.44	9.18	0.00
T2	6866.37	Regional	DonPhaseII_Final_Baseline	10.14	261.99	264.16	2.16	264.16	0.000024	0.23	76.16	55.82	0.05
T2	6866.37	Regional	DonPhaseII_Final_Proposed	10.14	261.99	264.16	2.16	264.16	0.000024	0.23	76.16	55.82	0.05
T2	6866.37	350 Year	DonPhaseII_Final_Baseline	0.92	261.99	263.84	1.84	263.84	0.000000	0.03	60.31	45.42	0.01
T2	6866.37	350 Year	DonPhaseII_Final_Proposed	0.92	261.99	263.84	1.84	263.84	0.000000	0.03	60.31	45.42	0.01
T2	6866.37	100 Year	DonPhaseII_Final_Baseline	0.21	261.99	262.07	0.07	262.08	0.001110	0.17	1.48	16.88	0.20
T2	6866.37	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	261.99	262.25	0.25	262.25	0.000047	0.08	4.73	19.26	0.05
T2	6866.37	50 Year	DonPhaseII_Final_Baseline	0.19	261.99	262.02	0.02	262.03	0.013280	0.24	0.62	15.17	0.54
T2	6866.37	100 Year	DonPhaseII_Final_Proposed	0.21	261.99	262.07	0.07	262.08	0.001110	0.17	1.48	16.88	0.20
T2	6866.37	25 Year	DonPhaseII_Final_Baseline	0.17	261.99	262.00	0.00	262.01	0.064703	0.18	0.32	10.99	0.93
T2	6866.37	50 Year	DonPhaseII_Final_Proposed	0.19	261.99	262.02	0.02	262.03	0.013280	0.24	0.62	15.17	0.54
T2	6866.37	10 Year	DonPhaseII_Final_Baseline	0.14	261.99	261.99	0.00	262.01	0.075963	0.08	0.26	9.29	0.81
T2	6866.37	25 Year	DonPhaseII_Final_Proposed	0.17	261.99	262.00	0.00	262.01	0.064703	0.18	0.32	10.99	0.93
T2	6866.37	5 Year	DonPhaseII_Final_Baseline	0.12	261.99	261.98		262.00	0.078025		0.23	8.49	0.00
T2	6866.37	10 Year	DonPhaseII_Final_Proposed	0.14	261.99	261.98	0.00	262.01	0.075963	0.08	0.26	9.29	0.81
T2	6866.37	2 Year	DonPhaseII_Final_Baseline	0.09	261.99	261.98		262.00	0.085507		0.18	7.63	0.00
T2	6866.37	5 Year	DonPhaseII_Final_Proposed	0.12	261.99	261.99		262.00	0.078025		0.23	8.49	0.00
T2	6866.37	2 Year	DonPhaseII_Final_Proposed	0.09	261.99	261.98		262.00	0.085507		0.18	7.63	0.00
T2	6842.92	Regional	DonPhaseII_Final_Baseline	10.14	261.46	264.16	2.66	264.16	0.000010	0.17	110.57	76.26	0.03
T2	6842.92	Regional	DonPhaseII_Final_Proposed	10.14	261.46	264.16	2.66	264.16	0.000010	0.17	110.57	76.26	0.03
T2	6842.92	350 Year	DonPhaseII_Final_Baseline	0.92	261.46	263.84	2.33	263.84	0.000000	0.02	92.55	51.07	0.00
T2	6842.92	350 Year	DonPhaseII_Final_Proposed	0.92	261.46	263.84	2.33	263.84	0.000000	0.02	92.55	51.07	0.00
T2	6842.92	100 Year	DonPhaseII_Final_Baseline	0.21	261.46	262.07	0.57	262.07	0.000001	0.02	15.41	33.77	0.01
T2	6842.92	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	261.46	262.25	0.75	262.25	0.000001	0.02	21.64	36.14	0.01
T2	6842.92	50 Year	DonPhaseII_Final_Baseline	0.19	261.46	262.02	0.52	262.02	0.000002	0.02	13.73	32.85	0.01
T2	6842.92	100 Year	DonPhaseII_Final_Proposed	0.21	261.46								

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	6842.92	5 Year	DonPhaseII_Final_Baseline	0.12	261.46	261.90	0.39	261.90	0.000002	0.02	9.67	30.55	0.01
T2	6842.92	10 Year	DonPhaseII_Final_Proposed	0.14	261.46	261.93	0.42	261.93	0.000002	0.02	10.60	31.05	0.01
T2	6842.92	2 Year	DonPhaseII_Final_Baseline	0.09	261.46	261.85	0.35	261.85	0.000002	0.02	8.33	29.86	0.01
T2	6842.92	5 Year	DonPhaseII_Final_Proposed	0.12	261.46	261.90	0.39	261.90	0.000002	0.02	9.67	30.55	0.01
T2	6842.92	2 Year	DonPhaseII_Final_Proposed	0.09	261.46	261.85	0.35	261.85	0.000002	0.02	8.33	29.86	0.01
T2	6837.71	Regional	DonPhaseII_Final_Baseline	10.14	261.61	264.16	2.54	264.16	0.000027	0.27	73.55	83.89	0.05
T2	6837.71	Regional	DonPhaseII_Final_Proposed	10.14	261.61	264.16	2.54	264.16	0.000027	0.27	73.55	83.89	0.05
T2	6837.71	350 Year	DonPhaseII_Final_Baseline	0.92	261.61	263.84	2.22	263.84	0.000000	0.03	57.96	48.76	0.01
T2	6837.71	350 Year	DonPhaseII_Final_Proposed	0.92	261.61	263.84	2.22	263.84	0.000000	0.03	57.96	48.76	0.01
T2	6837.71	100 Year	DonPhaseII_Final_Baseline	0.21	261.61	262.07	0.45	262.07	0.000008	0.05	7.93	23.99	0.02
T2	6837.71	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	261.61	262.25	0.63	262.25	0.000004	0.04	12.12	27.08	0.02
T2	6837.71	50 Year	DonPhaseII_Final_Baseline	0.19	261.61	262.02	0.40	262.02	0.000010	0.05	6.81	23.28	0.02
T2	6837.71	100 Year	DonPhaseII_Final_Proposed	0.21	261.61	262.07	0.45	262.07	0.000008	0.05	7.93	23.99	0.02
T2	6837.71	25 Year	DonPhaseII_Final_Baseline	0.17	261.61	261.98	0.36	261.98	0.000012	0.05	5.93	22.67	0.03
T2	6837.71	50 Year	DonPhaseII_Final_Proposed	0.19	261.61	262.02	0.40	262.02	0.000010	0.05	6.81	23.28	0.02
T2	6837.71	10 Year	DonPhaseII_Final_Baseline	0.14	261.61	261.93	0.31	261.93	0.000015	0.05	4.67	21.00	0.03
T2	6837.71	25 Year	DonPhaseII_Final_Proposed	0.17	261.61	261.98	0.36	261.98	0.000012	0.05	5.93	22.67	0.03
T2	6837.71	5 Year	DonPhaseII_Final_Baseline	0.12	261.61	261.90	0.28	261.90	0.000017	0.05	4.07	19.63	0.03
T2	6837.71	10 Year	DonPhaseII_Final_Proposed	0.14	261.61	261.93	0.31	261.93	0.000015	0.05	4.67	21.00	0.03
T2	6837.71	2 Year	DonPhaseII_Final_Baseline	0.09	261.61	261.85	0.23	261.85	0.000018	0.05	3.23	18.25	0.03
T2	6837.71	5 Year	DonPhaseII_Final_Proposed	0.12	261.61	261.90	0.28	261.90	0.000017	0.05	4.07	19.63	0.03
T2	6837.71	2 Year	DonPhaseII_Final_Proposed	0.09	261.61	261.85	0.23	261.85	0.000018	0.05	3.23	18.25	0.03
T2	6823.54		Culvert										
T2	6799.6	Regional	DonPhaseII_Final_Baseline	10.14	261.66	262.06	0.37	262.22	0.023018	2.22	7.68	41.50	1.17
T2	6799.6	Regional	DonPhaseII_Final_Proposed	10.14	261.66	262.06	0.37	262.22	0.023018	2.22	7.68	41.50	1.17
T2	6799.6	350 Year	DonPhaseII_Final_Baseline	0.92	261.66	261.79	0.09	261.82	0.021739	0.87	1.57	17.97	0.91
T2	6799.6	350 Year	DonPhaseII_Final_Proposed	0.92	261.66	261.79	0.09	261.82	0.021739	0.87	1.57	17.97	0.91
T2	6799.6	100 Year	DonPhaseII_Final_Baseline	0.21	261.66	261.72	0.04	261.73	0.022011	0.49	0.59	11.81	0.79
T2	6799.6	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	261.66	261.74	0.05	261.75	0.014087	0.47	0.80	12.75	0.66
T2	6799.6	50 Year	DonPhaseII_Final_Baseline	0.19	261.66	261.72	0.04	261.73	0.022548	0.47	0.55	11.59	0.79
T2	6799.6	100 Year	DonPhaseII_Final_Proposed	0.21	261.66	261.72	0.04	261.73	0.022011	0.49	0.59	11.81	0.79
T2	6799.6	25 Year	DonPhaseII_Final_Baseline	0.17	261.66	261.72	0.03	261.72	0.021526	0.45	0.52	11.42	0.77
T2	6799.6	50 Year	DonPhaseII_Final_Proposed	0.19	261.66	261.72	0.04	261.73	0.022548	0.47	0.55	11.59	0.79
T2	6799.6	10 Year	DonPhaseII_Final_Baseline	0.14	261.66	261.71	0.03	261.72	0.020583	0.41	0.47	11.12	0.74
T2	6799.6	25 Year	DonPhaseII_Final_Proposed	0.17	261.66	261.72	0.03	261.72	0.021526	0.45	0.52	11.42	0.77
T2	6799.6	5 Year	DonPhaseII_Final_Baseline	0.12	261.66	261.71	0.03	261.71	0.017980	0.37	0.44	10.92	0.68
T2	6799.6	10 Year	DonPhaseII_Final_Proposed	0.14	261.66	261.71	0.03	261.72	0.020583	0.41	0.47	11.12	0.74
T2	6799.6	2 Year	DonPhaseII_Final_Baseline	0.09	261.66	261.70	0.03	261.71	0.018223	0.35	0.36	10.06	0.68
T2	6799.6	5 Year	DonPhaseII_Final_Proposed	0.12	261.66	261.71	0.03	261.71	0.017980	0.37	0.44	10.92	0.68
T2	6799.6	2 Year	DonPhaseII_Final_Proposed	0.09	261.66	261.70	0.03	261.71	0.018223	0.35	0.36	10.06	0.68
T2	6792.3	Regional	DonPhaseII_Final_Baseline	10.14	261.42	261.85	0.42	261.96	0.027947	2.67	9.95	39.69	1.32
T2	6792.3	Regional	DonPhaseII_Final_Proposed	10.14	261.42	261.85	0.42	261.96	0.027947	2.67	9.95	39.69	1.32
T2	6792.3	350 Year	DonPhaseII_Final_Baseline	0.92	261.42	261.55	0.12	261.59	0.036381	1.33	1.59	19.32	1.22
T2	6792.3	350 Year	DonPhaseII_Final_Proposed	0.92	261.42	261.55	0.12	261.59	0.036381	1.33	1.59	19.32	1.22
T2	6792.3	100 Year	DonPhaseII_Final_Baseline	0.21	261.42	261.49	0.06	261.51	0.033055	0.82	0.58	16.03	1.05
T2	6792.3	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	261.42	261.49	0.06	261.52	0.067785	1.12	0.52	15.24	1.48
T2	6792.3	50 Year	DonPhaseII_Final_Baseline	0.19	261.42	261.49	0.06	261.50	0.032228	0.78	0.52	15.30	1.02
T2	6792.3	100 Year	DonPhaseII_Final_Proposed	0.21	261.42	261.49	0.06	261.51	0.033055	0.82	0.58	16.03	1.05
T2	6792.3	25 Year	DonPhaseII_Final_Baseline	0.17	261.42	261.48	0.05	261.50	0.035687	0.77	0.46	14.33	1.06
T2	6792.3	50 Year	DonPhaseII_Final_Proposed	0.19	261.42	261.49	0.06	261.50	0.032228	0.78	0.52	15.30	1.02
T2	6792.3	10 Year	DonPhaseII_Final_Baseline	0.14	261.42	261.48	0.05	261.49	0.037056	0.74	0.38	13.08	1.06
T2	6792.3	25 Year	DonPhaseII_Final_Proposed	0.17	261.42	261.48	0.05	261.50	0.035687	0.77	0.46	14.33	1.06
T2	6792.3	5 Year	DonPhaseII_Final_Baseline	0.12	261.42	261.47	0.04	261.49	0.045817	0.75	0.31	11.63	1.16
T2	6792.3	10 Year	DonPhaseII_Final_Proposed	0.14	261.42	261.48	0.05	261.49	0.037056	0.74	0.38	13.08	1.06
T2	6792.3	2 Year	DonPhaseII_Final_Baseline	0.09	261.42	261.47	0.04	261.48	0.044192	0.67	0.25	9.69	1.11
T2	6792.3	5 Year	DonPhaseII_Final_Proposed	0.12	261.42	261.47	0.04	261.49	0.045817	0.75	0.31	11.63	1.16
T2	6792.3	2 Year	DonPhaseII_Final_Proposed	0.09	261.42	261.47	0.04	261.48	0.044192	0.67	0.25	9.69	1.11
T2	6752.4	Regional	DonPhaseII_Final_Baseline	10.14	260.65	261.29	0.61	261.39	0.008109	1.85	10.36	23.14	0.76
T2	6752.4	Regional	DonPhaseII_Final_Proposed	10.14	260.65	261.29	0.61	261.39	0.008109	1.85	10.36	23.14	0.76
T2	6752.4	350 Year	DonPhaseII_Final_Baseline	0.92	260.65	260.86	0.18	260.88	0.005897	0.71	2.07	15.18	0.53
T2	6752.4	350 Year	DonPhaseII_Final_Proposed	0.92	260.65	260.86	0.18	260.88	0.005897	0.71	2.07	15.18	0.53
T2	6752.4	100 Year	DonPhaseII_Final_Baseline	0.21	260.65	260.76	0.08	260.77	0.005199	0.39	0.74	10.48	0.43
T2	6752.4	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	260.65	260.77	0.10	260.78	0.005302	0.44	0.87	10.74	0.45
T2	6752.4	50 Year	DonPhaseII_Final_Baseline	0.19	260.65	260.76	0.08	260.76	0.005009	0.37	0.70	10.41	0.42
T2	6752.4	100 Year	DonPhaseII_Final_Proposed	0.21	260.65	260.76	0.08	260.77	0.005199	0.39	0.74	10.48	0.43
T2	6752.4	25 Year	DonPhaseII_Final_Baseline	0.17	260.65	260.75	0.07	260.76	0.005303	0.36	0.63	9.76	0.43
T2	6752.4	50 Year	DonPhaseII_Final_Proposed	0.19	260.65	260.76	0.08	260.76	0.005009	0.37	0.70	10.41	0.42
T2	6752.4	10 Year	DonPhaseII_Final_Baseline	0.14	260.65	260.74	0.07	260.75	0.005078	0.33	0.57	9.62	0.41
T2	6752.4	25 Year	DonPhaseII_Final_Proposed	0.17	260.65	260.75	0.07	260.76	0.005303	0.36	0.63	9.76	0.43
T2	6752.4	5 Year	DonPhaseII_Final_Baseline	0.12	260.65	260.74	0.06	260.74	0.005067	0.31	0.51	9.45	0.41
T2	6752.4	10 Year	DonPhaseII_Final_Proposed	0.14	260.65	260.74	0.07	260.75	0.005078	0.33	0.57	9.62	0.41
T2	6752.4	2 Year	DonPhaseII_Final_Baseline	0.09	260.65	260.73	0.05	260.73	0.005017	0.28	0.43	9.12	0.39
T2	6752.4	5 Year	DonPhaseII_Final_Proposed	0.12	260.65	260.74	0.06	260.74	0.005067	0.31	0.51	9.45	0.41
T2	6752.4	2 Year	DonPhaseII_Final_Proposed	0.09	260.65	260.73	0.05	260.73	0.005017	0.28	0.43	9.12	0.39
T2	6713.62	Regional	DonPhaseII_Final_Baseline	10.14	260.16	260.57	0.38	260.76	0.045224	3.20	6.49	17.90	1.65
T2	6713.62	Regional	DonPhaseII_Final_Proposed	10.14	260.16	260.57	0.38	260.76	0.045224	3.20	6.49	17.90	1.65
T2	6713.62	350 Year	DonPhaseII_Final_Baseline	0.92	260.16	260.23	0.04	260.27	0.115925	1.15	1.07	13.66	1.82
T2	6713.62	350 Year	DonPhaseII_Final_Proposed	0.92	260.16	260.23	0.04	260.27	0.115925	1.15	1.07	13.66	1.82
T2	6713.62	100 Year	DonPhaseII_Final_Baseline	0.21	260.16	260.16	0.00	260.18	0.163823	0.21	0.34	8.72	1.35
T2	6713.62	1.3*100 Year	DonPhaseII_Final_Proposed	0.27	260.16	260.17	0.01	260.20	0.148313	0.41	0.43	9.62	1.54
T2	6713.62	50 Year	DonPhaseII_Final_Baseline	0.19	260.16	260.16	0.00	260.18	0.202188	0.21	0.30	8.19	0.00
T2	6713.62	100 Year	DonPhaseII_Final_Proposed	0.21	260.16	260.16	0.00	260.18	0.163823	0.21	0.34	8.72	1.35
T2	6713.62	25 Year	DonPhaseII_Final_Baseline	0.17	260.16	260.16	0.00	260.18	0.142444	0.07	0.31	8.35	0.99
T2	6713.62	50 Year	DonPhaseII_Final_Proposed	0.19	260.16	260.16	0.00	260.18	0.202188	0.21	0.30	8.19	0.00
T2	6713.62	10 Year	DonPhaseII_Final_Baseline	0.14	260.16	260.15	0.00	260.17	0.180659	0.25	0.21	7.61	

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	6666.43	Regional	DonPhaseII_Final_Baseline	10.14	259.36	260.07	0.70	260.10	0.003950	1.41	16.27	27.97	0.54
T2	6666.43	Regional	DonPhaseII_Final_Proposed	10.14	259.36	260.07	0.70	260.10	0.003950	1.41	16.27	27.97	0.54
T2	6666.43	350 Year	DonPhaseII_Final_Baseline	0.92	259.36	259.52	0.15	259.53	0.005067	0.58	3.14	20.44	0.47
T2	6666.43	350 Year	DonPhaseII_Final_Proposed	0.92	259.36	259.52	0.15	259.53	0.005067	0.58	3.14	20.44	0.47
T2	6666.43	100 Year	DonPhaseII_Final_Baseline	0.21	259.36	259.42	0.05	259.43	0.005448	0.28	1.17	18.43	0.41
T2	6666.43	100 Year	DonPhaseII_Final_Proposed	0.27	259.36	259.44	0.06	259.44	0.005221	0.33	1.42	18.73	0.42
T2	6666.43	50 Year	DonPhaseII_Final_Baseline	0.19	259.36	259.42	0.05	259.42	0.005347	0.27	1.10	18.35	0.40
T2	6666.43	100 Year	DonPhaseII_Final_Proposed	0.21	259.36	259.42	0.05	259.43	0.005448	0.28	1.17	18.43	0.41
T2	6666.43	25 Year	DonPhaseII_Final_Baseline	0.17	259.36	259.41	0.04	259.42	0.005621	0.25	1.00	18.14	0.40
T2	6666.43	50 Year	DonPhaseII_Final_Proposed	0.19	259.36	259.42	0.05	259.42	0.005347	0.27	1.10	18.35	0.40
T2	6666.43	10 Year	DonPhaseII_Final_Baseline	0.14	259.36	259.41	0.03	259.41	0.005508	0.22	0.87	17.29	0.38
T2	6666.43	25 Year	DonPhaseII_Final_Proposed	0.17	259.36	259.41	0.04	259.42	0.005621	0.25	1.00	18.14	0.40
T2	6666.43	5 Year	DonPhaseII_Final_Baseline	0.12	259.36	259.40	0.03	259.40	0.005494	0.19	0.77	16.25	0.37
T2	6666.43	10 Year	DonPhaseII_Final_Proposed	0.14	259.36	259.41	0.03	259.41	0.005508	0.22	0.87	17.29	0.38
T2	6666.43	2 Year	DonPhaseII_Final_Baseline	0.09	259.36	259.39	0.02	259.39	0.005539	0.14	0.61	15.27	0.34
T2	6666.43	5 Year	DonPhaseII_Final_Proposed	0.12	259.36	259.40	0.03	259.40	0.005494	0.19	0.77	16.25	0.37
T2	6666.43	2 Year	DonPhaseII_Final_Proposed	0.09	259.36	259.39	0.02	259.39	0.005539	0.14	0.61	15.27	0.34
T2	6608.4	Regional	DonPhaseII_Final_Baseline	18.05	258.46	259.27	0.79	259.52	0.021875	3.62	12.37	23.69	1.30
T2	6608.4	Regional	DonPhaseII_Final_Proposed	18.05	258.46	259.27	0.79	259.52	0.021875	3.62	12.37	23.69	1.30
T2	6608.4	350 Year	DonPhaseII_Final_Baseline	1.91	258.46	258.74	0.27	258.82	0.022189	1.77	2.38	14.05	1.09
T2	6608.4	350 Year	DonPhaseII_Final_Proposed	1.91	258.46	258.74	0.27	258.82	0.022189	1.77	2.38	14.05	1.09
T2	6608.4	100 Year	DonPhaseII_Final_Baseline	0.45	258.46	258.60	0.13	258.64	0.024321	1.14	0.76	9.13	1.01
T2	6608.4	100 Year	DonPhaseII_Final_Proposed	0.59	258.46	258.62	0.15	258.67	0.024789	1.25	0.92	9.70	1.04
T2	6608.4	50 Year	DonPhaseII_Final_Baseline	0.41	258.46	258.60	0.12	258.64	0.024730	1.11	0.70	8.91	1.01
T2	6608.4	100 Year	DonPhaseII_Final_Proposed	0.45	258.46	258.60	0.13	258.64	0.024321	1.14	0.76	9.13	1.01
T2	6608.4	25 Year	DonPhaseII_Final_Baseline	0.36	258.46	258.59	0.12	258.63	0.023987	1.05	0.64	8.68	0.99
T2	6608.4	50 Year	DonPhaseII_Final_Proposed	0.41	258.46	258.60	0.12	258.64	0.024730	1.11	0.70	8.91	1.01
T2	6608.4	10 Year	DonPhaseII_Final_Baseline	0.31	258.46	258.58	0.11	258.62	0.023777	1.00	0.58	8.40	0.97
T2	6608.4	25 Year	DonPhaseII_Final_Proposed	0.36	258.46	258.59	0.12	258.63	0.023987	1.05	0.64	8.68	0.99
T2	6608.4	5 Year	DonPhaseII_Final_Baseline	0.27	258.46	258.57	0.10	258.61	0.023675	0.95	0.52	8.16	0.96
T2	6608.4	10 Year	DonPhaseII_Final_Proposed	0.31	258.46	258.58	0.11	258.62	0.023777	1.00	0.58	8.40	0.97
T2	6608.4	2 Year	DonPhaseII_Final_Baseline	0.20	258.46	258.56	0.09	258.59	0.024145	0.87	0.41	7.66	0.94
T2	6608.4	5 Year	DonPhaseII_Final_Proposed	0.27	258.46	258.57	0.10	258.61	0.023675	0.95	0.52	8.16	0.96
T2	6608.4	2 Year	DonPhaseII_Final_Proposed	0.20	258.46	258.56	0.09	258.59	0.024145	0.87	0.41	7.66	0.94
T2	6530.11	Regional	DonPhaseII_Final_Baseline	18.05	257.90	258.57	0.65	258.59	0.005006	1.52	28.71	56.74	0.60
T2	6530.11	Regional	DonPhaseII_Final_Proposed	18.05	257.90	258.57	0.65	258.59	0.005006	1.52	28.71	56.74	0.60
T2	6530.11	350 Year	DonPhaseII_Final_Baseline	1.91	257.90	258.08	0.17	258.08	0.004790	0.60	6.36	33.45	0.47
T2	6530.11	350 Year	DonPhaseII_Final_Proposed	1.91	257.90	258.08	0.17	258.08	0.004790	0.60	6.36	33.45	0.47
T2	6530.11	100 Year	DonPhaseII_Final_Baseline	0.45	257.90	257.97	0.06	257.97	0.003174	0.24	2.89	30.04	0.32
T2	6530.11	100 Year	DonPhaseII_Final_Proposed	0.59	257.90	257.98	0.07	257.99	0.003434	0.29	3.33	30.59	0.34
T2	6530.11	50 Year	DonPhaseII_Final_Baseline	0.41	257.90	257.97	0.05	257.97	0.003065	0.22	2.75	29.87	0.31
T2	6530.11	100 Year	DonPhaseII_Final_Proposed	0.45	257.90	257.97	0.06	257.97	0.003174	0.24	2.89	30.04	0.32
T2	6530.11	25 Year	DonPhaseII_Final_Baseline	0.36	257.90	257.96	0.05	257.96	0.002963	0.20	2.56	29.63	0.30
T2	6530.11	50 Year	DonPhaseII_Final_Proposed	0.41	257.90	257.97	0.05	257.97	0.003065	0.22	2.75	29.87	0.31
T2	6530.11	10 Year	DonPhaseII_Final_Baseline	0.31	257.90	257.95	0.04	257.95	0.002903	0.17	2.33	29.33	0.28
T2	6530.11	25 Year	DonPhaseII_Final_Proposed	0.36	257.90	257.96	0.05	257.96	0.002963	0.20	2.56	29.63	0.30
T2	6530.11	5 Year	DonPhaseII_Final_Baseline	0.27	257.90	257.94	0.03	257.95	0.002914	0.15	2.13	29.11	0.28
T2	6530.11	10 Year	DonPhaseII_Final_Proposed	0.31	257.90	257.95	0.04	257.95	0.002903	0.17	2.33	29.33	0.28
T2	6530.11	2 Year	DonPhaseII_Final_Baseline	0.20	257.90	257.93	0.02	257.93	0.002899	0.10	1.75	28.71	0.25
T2	6530.11	5 Year	DonPhaseII_Final_Proposed	0.27	257.90	257.94	0.03	257.95	0.002914	0.15	2.13	29.11	0.28
T2	6530.11	2 Year	DonPhaseII_Final_Proposed	0.20	257.90	257.93	0.02	257.93	0.002899	0.10	1.75	28.71	0.25
T2	6466.38	Regional	DonPhaseII_Final_Baseline	18.05	257.31	257.80	0.46	257.92	0.030953	2.52	14.51	40.05	1.18
T2	6466.38	Regional	DonPhaseII_Final_Proposed	18.05	257.31	257.80	0.46	257.92	0.030953	2.52	14.51	40.05	1.18
T2	6466.38	350 Year	DonPhaseII_Final_Baseline	1.91	257.31	257.50	0.16	257.52	0.019638	0.99	3.75	29.71	0.81
T2	6466.38	350 Year	DonPhaseII_Final_Proposed	1.91	257.31	257.50	0.16	257.52	0.019638	0.99	3.75	29.71	0.81
T2	6466.38	100 Year	DonPhaseII_Final_Baseline	0.45	257.31	257.36	0.04	257.38	0.081450	0.78	0.76	14.44	1.31
T2	6466.38	100 Year	DonPhaseII_Final_Proposed	0.59	257.31	257.38	0.05	257.40	0.054883	0.80	1.07	17.42	1.12
T2	6466.38	50 Year	DonPhaseII_Final_Baseline	0.41	257.31	257.36	0.03	257.38	0.096910	0.77	0.66	13.29	1.40
T2	6466.38	100 Year	DonPhaseII_Final_Proposed	0.45	257.31	257.36	0.04	257.38	0.081450	0.78	0.76	14.44	1.31
T2	6466.38	25 Year	DonPhaseII_Final_Baseline	0.36	257.31	257.35	0.02	257.37	0.118366	0.73	0.56	12.05	1.51
T2	6466.38	50 Year	DonPhaseII_Final_Proposed	0.41	257.31	257.36	0.03	257.38	0.096910	0.77	0.66	13.29	1.40
T2	6466.38	10 Year	DonPhaseII_Final_Baseline	0.31	257.31	257.34	0.02	257.36	0.136546	0.67	0.47	11.19	1.61
T2	6466.38	25 Year	DonPhaseII_Final_Proposed	0.36	257.31	257.35	0.02	257.37	0.118366	0.73	0.56	12.05	1.51
T2	6466.38	5 Year	DonPhaseII_Final_Baseline	0.27	257.31	257.34	0.02	257.36	0.128333	0.60	0.43	10.71	1.56
T2	6466.38	10 Year	DonPhaseII_Final_Proposed	0.31	257.31	257.34	0.02	257.36	0.136546	0.67	0.47	11.19	1.61
T2	6466.38	2 Year	DonPhaseII_Final_Baseline	0.20	257.31	257.33	0.01	257.35	0.134439	0.47	0.33	8.63	1.57
T2	6466.38	5 Year	DonPhaseII_Final_Proposed	0.27	257.31	257.34	0.02	257.36	0.128333	0.60	0.43	10.71	1.56
T2	6466.38	2 Year	DonPhaseII_Final_Proposed	0.20	257.31	257.33	0.01	257.35	0.134439	0.47	0.33	8.63	1.57
T2	6376.17	Regional	DonPhaseII_Final_Baseline	18.05	255.31	256.65	1.28	256.85	0.006178	2.63	19.69	45.24	0.74
T2	6376.17	Regional	DonPhaseII_Final_Proposed	18.05	255.31	256.65	1.28	256.85	0.006178	2.63	19.69	45.24	0.74
T2	6376.17	350 Year	DonPhaseII_Final_Baseline	1.91	255.31	255.72	0.35	255.88	0.016150	1.78	1.24	4.66	0.97
T2	6376.17	350 Year	DonPhaseII_Final_Proposed	1.91	255.31	255.72	0.35	255.88	0.016150	1.78	1.24	4.66	0.97
T2	6376.17	100 Year	DonPhaseII_Final_Baseline	0.45	255.31	255.56	0.18	255.59	0.008445	0.83	0.56	3.51	0.63
T2	6376.17	100 Year	DonPhaseII_Final_Proposed	0.59	255.31	255.58	0.20	255.63	0.009669	0.96	0.64	3.68	0.68
T2	6376.17	50 Year	DonPhaseII_Final_Baseline	0.41	255.31	255.55	0.17	255.58	0.008016	0.79	0.53	3.46	0.61
T2	6376.17	100 Year	DonPhaseII_Final_Proposed	0.45	255.31	255.56	0.18	255.59	0.008445	0.83	0.56	3.51	0.63
T2	6376.17	25 Year	DonPhaseII_Final_Baseline	0.36	255.31	255.54	0.16	255.57	0.007645	0.74	0.50	3.38	0.59
T2	6376.17	50 Year	DonPhaseII_Final_Proposed	0.41	255.31	255.55	0.17	255.58	0.008016	0.79	0.53	3.46	0.61
T2	6376.17	10 Year	DonPhaseII_Final_Baseline	0.31	255.31	255.53	0.15	255.55	0.007435	0.69	0.45	3.28	0.57
T2	6376.17	25 Year	DonPhaseII_Final_Proposed	0.36	255.31	255.54	0.16	255.57	0.007645	0.74	0.50	3.38	0.59
T2	6376.17	5 Year	DonPhaseII_Final_Baseline	0.27	255.31	255.52	0.14	255.54	0.007389	0.66	0.42	3.19	0.56
T2	6376.17	10 Year	DonPhaseII_Final_Proposed	0.31	255.31	255.53	0.15	255.55	0.007435	0.69	0.45	3.28	0.57
T2	6376.17	2 Year	DonPhaseII_Final_Baseline	0.20	255.31	255.49	0.12	255.51	0.007179	0.58	0.35	3.00	0.54
T2	6376.17	5 Year	DonPhaseII_Final_Proposed	0.27	255.31	255.52	0.14	255.54	0.007389	0.66	0.42	3.19	0.56
T2	6376.17	2 Year	DonPhaseII_Final_Proposed	0.20	255.31	255.49	0.12	255.51	0.007179	0.58	0.35	3.00	0.54

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	6324.7	50 Year	DonPhaseII_Final_Baseline	0.41	254.70	254.86	0.10	254.91	0.024847	0.95	0.43	4.37	0.97
T2	6324.7	100 Year	DonPhaseII_Final_Proposed	0.45	254.70	254.87	0.10	254.92	0.023022	0.95	0.47	4.57	0.95
T2	6324.7	25 Year	DonPhaseII_Final_Baseline	0.36	254.70	254.85	0.09	254.90	0.026748	0.95	0.38	4.15	1.00
T2	6324.7	50 Year	DonPhaseII_Final_Proposed	0.41	254.70	254.86	0.10	254.91	0.024847	0.95	0.43	4.37	0.97
T2	6324.7	10 Year	DonPhaseII_Final_Baseline	0.31	254.70	254.84	0.09	254.88	0.027807	0.92	0.34	3.93	1.01
T2	6324.7	25 Year	DonPhaseII_Final_Proposed	0.36	254.70	254.85	0.09	254.90	0.026748	0.95	0.38	4.15	1.00
T2	6324.7	5 Year	DonPhaseII_Final_Baseline	0.27	254.70	254.83	0.08	254.87	0.027759	0.89	0.30	3.76	1.00
T2	6324.7	10 Year	DonPhaseII_Final_Proposed	0.31	254.70	254.84	0.09	254.88	0.027807	0.92	0.34	3.93	1.01
T2	6324.7	2 Year	DonPhaseII_Final_Baseline	0.20	254.70	254.81	0.07	254.85	0.029061	0.83	0.24	3.38	1.00
T2	6324.7	5 Year	DonPhaseII_Final_Proposed	0.27	254.70	254.83	0.08	254.87	0.027759	0.89	0.30	3.76	1.00
T2	6324.7	2 Year	DonPhaseII_Final_Proposed	0.20	254.70	254.81	0.07	254.85	0.029061	0.83	0.24	3.38	1.00
T2	6266.47	Regional	DonPhaseII_Final_Baseline	18.05	254.09	255.35	1.24	255.57	0.009050	3.13	17.00	32.20	0.90
T2	6266.47	Regional	DonPhaseII_Final_Proposed	18.05	254.09	255.35	1.24	255.57	0.009050	3.13	17.00	32.20	0.90
T2	6266.47	350 Year	DonPhaseII_Final_Baseline	1.91	254.09	254.60	0.49	254.69	0.007773	1.56	2.02	6.16	0.71
T2	6266.47	350 Year	DonPhaseII_Final_Proposed	1.91	254.09	254.60	0.49	254.69	0.007773	1.56	2.02	6.16	0.71
T2	6266.47	100 Year	DonPhaseII_Final_Baseline	0.45	254.09	254.37	0.26	254.39	0.004679	0.79	0.80	4.39	0.50
T2	6266.47	1.3*100 Year	DonPhaseII_Final_Proposed	0.59	254.09	254.40	0.29	254.43	0.004986	0.89	0.96	4.67	0.52
T2	6266.47	50 Year	DonPhaseII_Final_Baseline	0.41	254.09	254.36	0.25	254.38	0.004558	0.76	0.76	4.30	0.49
T2	6266.47	100 Year	DonPhaseII_Final_Proposed	0.45	254.09	254.37	0.26	254.39	0.004679	0.79	0.80	4.39	0.50
T2	6266.47	25 Year	DonPhaseII_Final_Baseline	0.36	254.09	254.34	0.23	254.36	0.004457	0.72	0.69	4.17	0.48
T2	6266.47	50 Year	DonPhaseII_Final_Proposed	0.41	254.09	254.36	0.25	254.38	0.004558	0.76	0.76	4.30	0.49
T2	6266.47	10 Year	DonPhaseII_Final_Baseline	0.31	254.09	254.32	0.21	254.34	0.004290	0.67	0.63	4.03	0.46
T2	6266.47	25 Year	DonPhaseII_Final_Proposed	0.36	254.09	254.34	0.23	254.36	0.004457	0.72	0.69	4.17	0.48
T2	6266.47	5 Year	DonPhaseII_Final_Baseline	0.27	254.09	254.31	0.20	254.33	0.004239	0.63	0.57	3.89	0.45
T2	6266.47	10 Year	DonPhaseII_Final_Proposed	0.31	254.09	254.32	0.21	254.34	0.004290	0.67	0.63	4.03	0.46
T2	6266.47	2 Year	DonPhaseII_Final_Baseline	0.20	254.09	254.28	0.17	254.30	0.004015	0.56	0.46	3.63	0.43
T2	6266.47	5 Year	DonPhaseII_Final_Proposed	0.27	254.09	254.31	0.20	254.33	0.004239	0.63	0.57	3.89	0.45
T2	6266.47	2 Year	DonPhaseII_Final_Proposed	0.20	254.09	254.28	0.17	254.30	0.004015	0.56	0.46	3.63	0.43
T2	6206.89	Regional	DonPhaseII_Final_Baseline	18.05	253.62	254.68	0.99	254.80	0.005968	2.19	20.17	38.05	0.70
T2	6206.89	Regional	DonPhaseII_Final_Proposed	18.05	253.62	254.68	0.99	254.80	0.005968	2.19	20.17	38.05	0.70
T2	6206.89	350 Year	DonPhaseII_Final_Baseline	1.91	253.62	253.98	0.30	254.09	0.013993	1.50	1.74	9.82	0.88
T2	6206.89	350 Year	DonPhaseII_Final_Proposed	1.91	253.62	253.98	0.30	254.09	0.013993	1.50	1.74	9.82	0.88
T2	6206.89	100 Year	DonPhaseII_Final_Baseline	0.45	253.62	253.80	0.11	253.85	0.024459	1.04	0.46	4.80	0.99
T2	6206.89	1.3*100 Year	DonPhaseII_Final_Proposed	0.59	253.62	253.82	0.13	253.88	0.022739	1.12	0.56	5.18	0.98
T2	6206.89	50 Year	DonPhaseII_Final_Baseline	0.41	253.62	253.79	0.10	253.84	0.025366	1.01	0.42	4.67	1.00
T2	6206.89	100 Year	DonPhaseII_Final_Proposed	0.45	253.62	253.80	0.11	253.85	0.024459	1.04	0.46	4.80	0.99
T2	6206.89	25 Year	DonPhaseII_Final_Baseline	0.36	253.62	253.78	0.10	253.83	0.025983	0.97	0.38	4.52	0.99
T2	6206.89	50 Year	DonPhaseII_Final_Proposed	0.41	253.62	253.79	0.10	253.84	0.025366	1.01	0.42	4.67	1.00
T2	6206.89	10 Year	DonPhaseII_Final_Baseline	0.31	253.62	253.77	0.09	253.82	0.027392	0.93	0.34	4.35	1.00
T2	6206.89	25 Year	DonPhaseII_Final_Proposed	0.36	253.62	253.78	0.10	253.83	0.025983	0.97	0.38	4.52	0.99
T2	6206.89	5 Year	DonPhaseII_Final_Baseline	0.27	253.62	253.77	0.08	253.80	0.027299	0.88	0.31	4.23	0.99
T2	6206.89	10 Year	DonPhaseII_Final_Proposed	0.31	253.62	253.77	0.09	253.82	0.027392	0.93	0.34	4.35	1.00
T2	6206.89	2 Year	DonPhaseII_Final_Baseline	0.20	253.62	253.75	0.07	253.78	0.029411	0.80	0.25	3.99	0.99
T2	6206.89	5 Year	DonPhaseII_Final_Proposed	0.27	253.62	253.77	0.08	253.80	0.027299	0.88	0.31	4.23	0.99
T2	6206.89	2 Year	DonPhaseII_Final_Proposed	0.20	253.62	253.75	0.07	253.78	0.029411	0.80	0.25	3.99	0.99
T2	6166.45	Regional	DonPhaseII_Final_Baseline	18.05	253.28	254.55	1.24	254.64	0.002918	1.78	27.20	49.80	0.51
T2	6166.45	Regional	DonPhaseII_Final_Proposed	18.05	253.28	254.55	1.24	254.64	0.002918	1.78	27.20	49.80	0.51
T2	6166.45	350 Year	DonPhaseII_Final_Baseline	1.91	253.28	253.80	0.48	253.83	0.002467	0.87	3.03	9.43	0.40
T2	6166.45	350 Year	DonPhaseII_Final_Proposed	1.91	253.28	253.80	0.48	253.83	0.002467	0.87	3.03	9.43	0.40
T2	6166.45	100 Year	DonPhaseII_Final_Baseline	0.45	253.28	253.54	0.23	253.55	0.001996	0.48	1.10	6.13	0.32
T2	6166.45	1.3*100 Year	DonPhaseII_Final_Proposed	0.59	253.28	253.57	0.26	253.59	0.002050	0.53	1.31	6.51	0.33
T2	6166.45	50 Year	DonPhaseII_Final_Baseline	0.41	253.28	253.53	0.22	253.54	0.001982	0.46	1.03	6.01	0.31
T2	6166.45	100 Year	DonPhaseII_Final_Proposed	0.45	253.28	253.54	0.23	253.55	0.001996	0.48	1.10	6.13	0.32
T2	6166.45	25 Year	DonPhaseII_Final_Baseline	0.36	253.28	253.51	0.20	253.52	0.001946	0.43	0.94	5.86	0.31
T2	6166.45	50 Year	DonPhaseII_Final_Proposed	0.41	253.28	253.53	0.22	253.54	0.001982	0.46	1.03	6.01	0.31
T2	6166.45	10 Year	DonPhaseII_Final_Baseline	0.31	253.28	253.50	0.19	253.51	0.001914	0.41	0.85	5.69	0.30
T2	6166.45	25 Year	DonPhaseII_Final_Proposed	0.36	253.28	253.51	0.20	253.52	0.001946	0.43	0.94	5.86	0.31
T2	6166.45	5 Year	DonPhaseII_Final_Baseline	0.27	253.28	253.49	0.17	253.49	0.001885	0.38	0.78	5.54	0.30
T2	6166.45	10 Year	DonPhaseII_Final_Proposed	0.31	253.28	253.50	0.19	253.51	0.001914	0.41	0.85	5.69	0.30
T2	6166.45	2 Year	DonPhaseII_Final_Baseline	0.20	253.28	253.46	0.15	253.46	0.001837	0.34	0.63	5.20	0.28
T2	6166.45	5 Year	DonPhaseII_Final_Proposed	0.27	253.28	253.49	0.17	253.49	0.001885	0.38	0.78	5.54	0.30
T2	6166.45	2 Year	DonPhaseII_Final_Proposed	0.20	253.28	253.46	0.15	253.46	0.001837	0.34	0.63	5.20	0.28
T2	6114.54	Regional	DonPhaseII_Final_Baseline	18.05	253.06	254.11	1.02	254.35	0.012299	3.20	14.34	26.31	1.01
T2	6114.54	Regional	DonPhaseII_Final_Proposed	18.05	253.06	254.11	1.02	254.35	0.012299	3.20	14.34	26.31	1.01
T2	6114.54	350 Year	DonPhaseII_Final_Baseline	1.91	253.06	253.47	0.38	253.58	0.012770	1.68	2.10	11.99	0.87
T2	6114.54	350 Year	DonPhaseII_Final_Proposed	1.91	253.06	253.47	0.38	253.58	0.012770	1.68	2.10	11.99	0.87
T2	6114.54	100 Year	DonPhaseII_Final_Baseline	0.45	253.06	253.24	0.15	253.30	0.020962	1.17	0.49	4.53	0.96
T2	6114.54	1.3*100 Year	DonPhaseII_Final_Proposed	0.59	253.06	253.27	0.18	253.34	0.019765	1.26	0.61	4.99	0.96
T2	6114.54	50 Year	DonPhaseII_Final_Baseline	0.41	253.06	253.23	0.14	253.29	0.021195	1.13	0.45	4.39	0.96
T2	6114.54	100 Year	DonPhaseII_Final_Proposed	0.45	253.06	253.24	0.15	253.30	0.020962	1.17	0.49	4.53	0.96
T2	6114.54	25 Year	DonPhaseII_Final_Baseline	0.36	253.06	253.22	0.13	253.28	0.022717	1.10	0.40	4.14	0.98
T2	6114.54	50 Year	DonPhaseII_Final_Proposed	0.41	253.06	253.23	0.14	253.29	0.021195	1.13	0.45	4.39	0.96
T2	6114.54	10 Year	DonPhaseII_Final_Baseline	0.31	253.06	253.21	0.12	253.26	0.023015	1.05	0.35	3.92	0.97
T2	6114.54	25 Year	DonPhaseII_Final_Proposed	0.36	253.06	253.22	0.13	253.28	0.022717	1.10	0.40	4.14	0.98
T2	6114.54	5 Year	DonPhaseII_Final_Baseline	0.27	253.06	253.20	0.11	253.25	0.024188	1.01	0.31	3.71	0.98
T2	6114.54	10 Year	DonPhaseII_Final_Proposed	0.31	253.06	253.21	0.12	253.26	0.023015	1.05	0.35	3.92	0.97
T2	6114.54	2 Year	DonPhaseII_Final_Baseline	0.20	253.06	253.18	0.09	253.22	0.026370	0.92	0.24	3.32	0.99
T2	6114.54	5 Year	DonPhaseII_Final_Proposed	0.27	253.06	253.20	0.11	253.25	0.024188	1.01	0.31	3.71	0.98
T2	6114.54	2 Year	DonPhaseII_Final_Proposed	0.20	253.06	253.18	0.09	253.22	0.026370	0.92	0.24	3.32	0.99
T2	6070.28	Regional	DonPhaseII_Final_Baseline	18.05	252.67	253.62	0.90	253.81	0.011747	2.88	13.96	22.01	0.97
T2	6070.28	Regional	DonPhaseII_Final_Proposed	18.05	252.67	253.62	0.90	253.81	0.011747	2.88	13.96	22.01	0.97
T2	6070.28	350 Year	DonPhaseII_Final_Baseline	1.91	252.67	253.14	0.42	253.17	0.003153	0.90	4.48	17.33	0.44
T2	6070.28	350 Year	DonPhaseII_Final_Proposed	1.91	252.67	253.14	0.42	253.17	0.003153	0.90	4.48	17.33	0.44
T2	6070.28	100 Year	DonPhaseII_Final_Baseline	0.45	252.67	252.96	0.24	252.97	0.002275	0.52	1.58	13.11	0.34
T2	6070.28	1.3*100 Year	DonPhaseII_Final_Proposed	0.59	252.67	252.99	0.27	253.00	0.002364	0.57	1.96	14.19	0.36
T2													

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	6070.28	10 Year	DonPhaseII_Final_Proposed	0.31	252.67	252.92	0.20	252.93	0.002203	0.46	1.14	11.69	0.33
T2	6070.28	2 Year	DonPhaseII_Final_Baseline	0.20	252.67	252.88	0.16	252.89	0.001996	0.38	0.77	8.00	0.30
T2	6070.28	5 Year	DonPhaseII_Final_Proposed	0.27	252.67	252.91	0.19	252.92	0.002158	0.44	1.00	10.38	0.32
T2	6070.28	2 Year	DonPhaseII_Final_Proposed	0.20	252.67	252.88	0.16	252.89	0.001996	0.38	0.77	8.00	0.30
T2	6014.41	Regional	DonPhaseII_Final_Baseline	18.05	252.56	253.14	0.58	253.19	0.009208	1.90	21.68	42.48	0.80
T2	6014.41	Regional	DonPhaseII_Final_Proposed	18.05	252.56	253.14	0.58	253.19	0.009208	1.90	21.68	42.48	0.80
T2	6014.41	350 Year	DonPhaseII_Final_Baseline	1.91	252.56	252.64	0.07	252.68	0.085698	1.47	2.35	31.98	1.73
T2	6014.41	350 Year	DonPhaseII_Final_Proposed	1.91	252.56	252.64	0.07	252.68	0.085698	1.47	2.35	31.98	1.73
T2	6014.41	100 Year	DonPhaseII_Final_Baseline	0.45	252.56	252.54		252.58	0.164680		0.55	8.63	0.00
T2	6014.41	1.3*100 Year	DonPhaseII_Final_Proposed	0.59	252.56	252.56		252.59	0.152748		0.68	9.09	0.00
T2	6014.41	50 Year	DonPhaseII_Final_Baseline	0.41	252.56	252.54		252.57	0.157361		0.53	8.55	0.00
T2	6014.41	100 Year	DonPhaseII_Final_Proposed	0.45	252.56	252.54		252.58	0.164680		0.55	8.63	0.00
T2	6014.41	25 Year	DonPhaseII_Final_Baseline	0.36	252.56	252.53		252.56	0.161325		0.48	8.40	0.00
T2	6014.41	50 Year	DonPhaseII_Final_Proposed	0.41	252.56	252.54		252.57	0.157361		0.53	8.55	0.00
T2	6014.41	10 Year	DonPhaseII_Final_Baseline	0.31	252.56	252.53		252.55	0.165902		0.43	8.25	0.00
T2	6014.41	25 Year	DonPhaseII_Final_Proposed	0.36	252.56	252.53		252.56	0.161325		0.48	8.40	0.00
T2	6014.41	5 Year	DonPhaseII_Final_Baseline	0.27	252.56	252.52		252.55	0.171686		0.39	8.11	0.00
T2	6014.41	10 Year	DonPhaseII_Final_Proposed	0.31	252.56	252.53		252.55	0.165902		0.43	8.25	0.00
T2	6014.41	2 Year	DonPhaseII_Final_Baseline	0.20	252.56	252.51		252.53	0.226158		0.30	7.78	0.00
T2	6014.41	5 Year	DonPhaseII_Final_Proposed	0.27	252.56	252.52		252.55	0.171686		0.39	8.11	0.00
T2	6014.41	2 Year	DonPhaseII_Final_Proposed	0.20	252.56	252.51		252.53	0.226158		0.30	7.78	0.00
T2	5966.37	Regional	DonPhaseII_Final_Baseline	18.05	252.09	253.01	0.90	253.03	0.001545	1.04	38.60	48.20	0.35
T2	5966.37	Regional	DonPhaseII_Final_Proposed	18.05	252.09	253.01	0.90	253.03	0.001545	1.04	38.60	48.20	0.35
T2	5966.37	350 Year	DonPhaseII_Final_Baseline	1.91	252.09	252.31	0.20	252.31	0.002274	0.46	8.10	37.60	0.33
T2	5966.37	350 Year	DonPhaseII_Final_Proposed	1.91	252.09	252.31	0.20	252.31	0.002274	0.46	8.10	37.60	0.33
T2	5966.37	100 Year	DonPhaseII_Final_Baseline	0.45	252.09	252.17	0.06	252.17	0.002300	0.20	3.17	30.93	0.27
T2	5966.37	1.3*100 Year	DonPhaseII_Final_Proposed	0.59	252.09	252.19	0.08	252.19	0.002162	0.24	3.82	32.83	0.28
T2	5966.37	50 Year	DonPhaseII_Final_Baseline	0.41	252.09	252.16	0.05	252.16	0.002479	0.19	2.91	30.16	0.27
T2	5966.37	100 Year	DonPhaseII_Final_Proposed	0.45	252.09	252.17	0.06	252.17	0.002300	0.20	3.17	30.93	0.27
T2	5966.37	25 Year	DonPhaseII_Final_Baseline	0.36	252.09	252.15	0.04	252.15	0.002554	0.17	2.66	29.37	0.27
T2	5966.37	50 Year	DonPhaseII_Final_Proposed	0.41	252.09	252.16	0.05	252.16	0.002479	0.19	2.91	30.16	0.27
T2	5966.37	10 Year	DonPhaseII_Final_Baseline	0.31	252.09	252.14	0.03	252.14	0.002607	0.15	2.41	28.43	0.26
T2	5966.37	25 Year	DonPhaseII_Final_Proposed	0.36	252.09	252.15	0.04	252.15	0.002554	0.17	2.66	29.37	0.27
T2	5966.37	5 Year	DonPhaseII_Final_Baseline	0.27	252.09	252.14	0.03	252.14	0.002624	0.14	2.21	27.88	0.26
T2	5966.37	10 Year	DonPhaseII_Final_Proposed	0.31	252.09	252.14	0.03	252.14	0.002607	0.15	2.41	28.43	0.26
T2	5966.37	2 Year	DonPhaseII_Final_Baseline	0.20	252.09	252.12	0.02	252.12	0.002520	0.11	1.86	27.46	0.24
T2	5966.37	5 Year	DonPhaseII_Final_Proposed	0.27	252.09	252.14	0.03	252.14	0.002624	0.14	2.21	27.88	0.26
T2	5966.37	2 Year	DonPhaseII_Final_Proposed	0.20	252.09	252.12	0.02	252.12	0.002520	0.11	1.86	27.46	0.24
T2	5863.08	Regional	DonPhaseII_Final_Baseline	18.05	251.59	253.01	1.41	253.01	0.000044	0.24	178.41	158.07	0.06
T2	5863.08	Regional	DonPhaseII_Final_Proposed	18.05	251.59	253.01	1.41	253.01	0.000044	0.24	178.41	158.07	0.06
T2	5863.08	350 Year	DonPhaseII_Final_Baseline	1.91	251.59	251.71	0.11	251.74	0.046066	1.44	3.44	49.57	1.36
T2	5863.08	350 Year	DonPhaseII_Final_Proposed	1.91	251.59	251.71	0.11	251.74	0.046066	1.44	3.44	49.57	1.36
T2	5863.08	100 Year	DonPhaseII_Final_Baseline	0.45	251.59	251.66	0.07	251.68	0.027001	0.79	1.46	38.88	0.96
T2	5863.08	1.3*100 Year	DonPhaseII_Final_Proposed	0.59	251.59	251.67	0.07	251.69	0.037207	0.96	1.58	39.54	1.14
T2	5863.08	50 Year	DonPhaseII_Final_Baseline	0.41	251.59	251.67	0.07	251.68	0.020291	0.70	1.52	39.20	0.84
T2	5863.08	100 Year	DonPhaseII_Final_Proposed	0.45	251.59	251.66	0.07	251.68	0.027001	0.79	1.46	38.88	0.96
T2	5863.08	25 Year	DonPhaseII_Final_Baseline	0.36	251.59	251.66	0.07	251.67	0.017889	0.64	1.44	38.77	0.78
T2	5863.08	50 Year	DonPhaseII_Final_Proposed	0.41	251.59	251.67	0.07	251.68	0.020291	0.70	1.52	39.20	0.84
T2	5863.08	10 Year	DonPhaseII_Final_Baseline	0.31	251.59	251.66	0.07	251.67	0.016602	0.60	1.33	38.08	0.75
T2	5863.08	25 Year	DonPhaseII_Final_Proposed	0.36	251.59	251.66	0.07	251.67	0.017889	0.64	1.44	38.77	0.78
T2	5863.08	5 Year	DonPhaseII_Final_Baseline	0.27	251.59	251.66	0.06	251.66	0.016107	0.57	1.19	36.71	0.73
T2	5863.08	10 Year	DonPhaseII_Final_Proposed	0.31	251.59	251.66	0.07	251.67	0.016602	0.60	1.33	38.08	0.75
T2	5863.08	2 Year	DonPhaseII_Final_Baseline	0.20	251.59	251.65	0.05	251.66	0.017533	0.53	0.88	31.11	0.74
T2	5863.08	5 Year	DonPhaseII_Final_Proposed	0.27	251.59	251.66	0.06	251.66	0.016107	0.57	1.19	36.71	0.73
T2	5863.08	2 Year	DonPhaseII_Final_Proposed	0.20	251.59	251.65	0.05	251.66	0.017533	0.53	0.88	31.11	0.74
T2	5840.04	Regional	DonPhaseII_Final_Baseline	20.30	251.13	252.96	1.75	253.00	0.000809	0.93	26.58	102.85	0.22
T2	5840.04	Regional	DonPhaseII_Final_Proposed	20.30	251.13	252.96	1.75	253.00	0.000809	0.93	26.58	102.85	0.22
T2	5840.04	350 Year	DonPhaseII_Final_Baseline	2.58	251.13	251.60	0.38	251.61	0.002327	0.60	5.12	39.00	0.31
T2	5840.04	350 Year	DonPhaseII_Final_Proposed	2.58	251.13	251.60	0.38	251.61	0.002327	0.60	5.12	39.00	0.31
T2	5840.04	100 Year	DonPhaseII_Final_Baseline	0.96	251.13	251.34	0.13	251.36	0.010413	0.72	1.60	24.07	0.64
T2	5840.04	1.3*100 Year	DonPhaseII_Final_Proposed	1.25	251.13	251.40	0.18	251.41	0.005859	0.64	2.31	25.90	0.47
T2	5840.04	50 Year	DonPhaseII_Final_Baseline	0.79	251.13	251.30	0.08	251.33	0.023858	0.93	1.05	16.51	1.03
T2	5840.04	100 Year	DonPhaseII_Final_Proposed	0.96	251.13	251.34	0.13	251.36	0.010413	0.72	1.60	24.07	0.64
T2	5840.04	25 Year	DonPhaseII_Final_Baseline	0.57	251.13	251.27	0.07	251.31	0.029195	0.95	0.78	13.53	1.14
T2	5840.04	50 Year	DonPhaseII_Final_Proposed	0.79	251.13	251.30	0.08	251.33	0.023858	0.93	1.05	16.51	1.03
T2	5840.04	10 Year	DonPhaseII_Final_Baseline	0.35	251.13	251.25	0.06	251.28	0.038888	0.93	0.50	9.53	1.18
T2	5840.04	25 Year	DonPhaseII_Final_Proposed	0.57	251.13	251.27	0.07	251.31	0.029195	0.95	0.78	13.53	1.14
T2	5840.04	5 Year	DonPhaseII_Final_Baseline	0.29	251.13	251.24	0.06	251.27	0.042674	0.90	0.42	8.36	1.18
T2	5840.04	10 Year	DonPhaseII_Final_Proposed	0.35	251.13	251.25	0.06	251.28	0.038888	0.93	0.50	9.53	1.18
T2	5840.04	2 Year	DonPhaseII_Final_Baseline	0.21	251.13	251.23	0.05	251.25	0.037895	0.79	0.35	7.81	1.09
T2	5840.04	5 Year	DonPhaseII_Final_Proposed	0.29	251.13	251.24	0.06	251.27	0.042674	0.90	0.42	8.36	1.18
T2	5840.04	2 Year	DonPhaseII_Final_Proposed	0.21	251.13	251.23	0.05	251.25	0.037895	0.79	0.35	7.81	1.09
T2	5818.14		Culvert										
T2	5794.32	Regional	DonPhaseII_Final_Baseline	20.30	251.05	252.34	1.29	252.50	0.006055	2.63	16.31	32.41	0.74
T2	5794.32	Regional	DonPhaseII_Final_Proposed	20.30	251.05	252.34	1.29	252.50	0.006055	2.63	16.31	32.41	0.74
T2	5794.32	350 Year	DonPhaseII_Final_Baseline	2.58	251.05	251.44	0.38	251.51	0.011351	1.61	3.09	11.73	0.83
T2	5794.32	350 Year	DonPhaseII_Final_Proposed	2.58	251.05	251.44	0.38	251.51	0.011351	1.61	3.09	11.73	0.83
T2	5794.32	100 Year	DonPhaseII_Final_Baseline	0.96	251.05	251.25	0.19	251.30	0.019554	1.32	1.29	8.14	0.97
T2	5794.32	1.3*100 Year	DonPhaseII_Final_Proposed	1.25	251.05	251.28	0.23	251.34	0.017689	1.41	1.60	8.53	0.95
T2	5794.32	50 Year	DonPhaseII_Final_Baseline	0.79	251.05	251.22	0.17	251.27	0.021291	1.26	1.10	7.91	0.99
T2	5794.32	100 Year	DonPhaseII_Final_Proposed	0.96	251.05	251.25	0.19	251.30	0.019554	1.32	1.29	8.14	0.97
T2	5794.32	25 Year	DonPhaseII_Final_Baseline	0.57	251.05	251.19	0.13	251.23	0.023644	1.15	0.86	7.59	1.00
T2	5794.32	50 Year	DonPhaseII_Final_Proposed	0.79	251.05	251.22	0.17	251.27	0.021291	1.26	1.10	7.91	0.99
T2	5794.32	10 Year	DonPhaseII_Final_Baseline	0.35	251.05	251.16	0.10	251.19	0.024603	0.97	0.61	7.13	0.98
T2	5794.32	25 Year	DonPhaseII_Final_Proposed	0.57	251.05	251.19	0.13	251.23	0.023644	1.15	0.86	7.59	1.00
T2	5794.32	5 Year	DonPhaseII_Final_Baseline	0.29	251.05	251.15	0.09	251.17	0.025764	0.92	0.53	6.96	0.98
T2	57												

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	5778.37	Regional	DonPhaseII_Final_Baseline	20.30	250.71	252.06	1.31	252.34	0.007945	3.05	16.13	27.16	0.85
T2	5778.37	Regional	DonPhaseII_Final_Proposed	20.30	250.71	252.06	1.31	252.34	0.007945	3.05	16.13	27.16	0.85
T2	5778.37	350 Year	DonPhaseII_Final_Baseline	2.58	250.71	251.21	0.46	251.33	0.009611	1.67	2.14	6.35	0.78
T2	5778.37	350 Year	DonPhaseII_Final_Proposed	2.58	250.71	251.21	0.46	251.33	0.009611	1.67	2.14	6.35	0.78
T2	5778.37	100 Year	DonPhaseII_Final_Baseline	0.96	250.71	251.01	0.26	251.08	0.010197	1.18	1.00	5.06	0.74
T2	5778.37	1.3*100 Year	DonPhaseII_Final_Proposed	1.25	250.71	251.06	0.31	251.13	0.009777	1.28	1.24	5.35	0.74
T2	5778.37	50 Year	DonPhaseII_Final_Baseline	0.79	250.71	250.98	0.23	251.04	0.010352	1.10	0.86	4.87	0.73
T2	5778.37	100 Year	DonPhaseII_Final_Proposed	0.96	250.71	251.01	0.26	251.08	0.010197	1.18	1.00	5.06	0.74
T2	5778.37	25 Year	DonPhaseII_Final_Baseline	0.57	250.71	250.94	0.19	250.99	0.010722	0.98	0.67	4.58	0.72
T2	5778.37	50 Year	DonPhaseII_Final_Proposed	0.79	250.71	250.98	0.23	251.04	0.010352	1.10	0.86	4.87	0.73
T2	5778.37	10 Year	DonPhaseII_Final_Baseline	0.35	250.71	250.89	0.14	250.93	0.011791	0.84	0.45	3.96	0.71
T2	5778.37	25 Year	DonPhaseII_Final_Proposed	0.57	250.71	250.94	0.19	250.99	0.010722	0.98	0.67	4.58	0.72
T2	5778.37	5 Year	DonPhaseII_Final_Baseline	0.29	250.71	250.88	0.13	250.91	0.011715	0.78	0.40	3.76	0.70
T2	5778.37	10 Year	DonPhaseII_Final_Proposed	0.35	250.71	250.89	0.14	250.93	0.011791	0.84	0.45	3.96	0.71
T2	5778.37	2 Year	DonPhaseII_Final_Baseline	0.21	250.71	250.85	0.10	250.88	0.013086	0.71	0.31	3.36	0.71
T2	5778.37	5 Year	DonPhaseII_Final_Proposed	0.29	250.71	250.88	0.13	250.91	0.011715	0.78	0.40	3.76	0.70
T2	5778.37	2 Year	DonPhaseII_Final_Proposed	0.21	250.71	250.85	0.10	250.88	0.013086	0.71	0.31	3.36	0.71
T2	5721.18	Regional	DonPhaseII_Final_Baseline	20.30	250.11	251.38	1.25	251.66	0.010760	3.44	15.24	23.09	0.98
T2	5721.18	Regional	DonPhaseII_Final_Proposed	20.30	250.11	251.38	1.25	251.66	0.010760	3.44	15.24	23.09	0.98
T2	5721.18	350 Year	DonPhaseII_Final_Baseline	2.58	250.11	250.54	0.41	250.66	0.014577	1.90	2.37	7.39	0.95
T2	5721.18	350 Year	DonPhaseII_Final_Proposed	2.58	250.11	250.54	0.41	250.66	0.014577	1.90	2.37	7.39	0.95
T2	5721.18	100 Year	DonPhaseII_Final_Baseline	0.96	250.11	250.38	0.25	250.44	0.012195	1.25	1.27	6.38	0.80
T2	5721.18	1.3*100 Year	DonPhaseII_Final_Proposed	1.25	250.11	250.41	0.28	250.48	0.013240	1.41	1.48	6.59	0.85
T2	5721.18	50 Year	DonPhaseII_Final_Baseline	0.79	250.11	250.36	0.23	250.41	0.011711	1.15	1.13	6.24	0.77
T2	5721.18	100 Year	DonPhaseII_Final_Proposed	0.96	250.11	250.38	0.25	250.44	0.012195	1.25	1.27	6.38	0.80
T2	5721.18	25 Year	DonPhaseII_Final_Baseline	0.57	250.11	250.32	0.19	250.36	0.011037	1.00	0.92	5.95	0.73
T2	5721.18	50 Year	DonPhaseII_Final_Proposed	0.79	250.11	250.36	0.23	250.41	0.011711	1.15	1.13	6.24	0.77
T2	5721.18	10 Year	DonPhaseII_Final_Baseline	0.35	250.11	250.28	0.15	250.31	0.009876	0.81	0.68	5.60	0.66
T2	5721.18	25 Year	DonPhaseII_Final_Proposed	0.57	250.11	250.32	0.19	250.36	0.011037	1.00	0.92	5.95	0.73
T2	5721.18	5 Year	DonPhaseII_Final_Baseline	0.29	250.11	250.27	0.14	250.29	0.009821	0.75	0.60	5.43	0.65
T2	5721.18	10 Year	DonPhaseII_Final_Proposed	0.35	250.11	250.28	0.15	250.31	0.009876	0.81	0.68	5.60	0.66
T2	5721.18	2 Year	DonPhaseII_Final_Baseline	0.21	250.11	250.25	0.12	250.27	0.008759	0.64	0.50	5.19	0.60
T2	5721.18	5 Year	DonPhaseII_Final_Proposed	0.29	250.11	250.27	0.14	250.29	0.009821	0.75	0.60	5.43	0.65
T2	5721.18	2 Year	DonPhaseII_Final_Proposed	0.21	250.11	250.25	0.12	250.27	0.008759	0.64	0.50	5.19	0.60
T2	5666.73	Regional	DonPhaseII_Final_Baseline	20.30	249.28	250.45	1.12	250.80	0.010509	3.15	12.20	18.02	0.95
T2	5666.73	Regional	DonPhaseII_Final_Proposed	20.30	249.28	250.45	1.12	250.80	0.010509	3.15	12.20	18.02	0.95
T2	5666.73	350 Year	DonPhaseII_Final_Baseline	2.58	249.28	249.68	0.35	249.83	0.016005	1.78	1.79	6.89	0.97
T2	5666.73	350 Year	DonPhaseII_Final_Proposed	2.58	249.28	249.68	0.35	249.83	0.016005	1.78	1.79	6.89	0.97
T2	5666.73	100 Year	DonPhaseII_Final_Baseline	0.96	249.28	249.52	0.19	249.60	0.019644	1.30	0.81	5.32	0.96
T2	5666.73	1.3*100 Year	DonPhaseII_Final_Proposed	1.25	249.28	249.55	0.22	249.65	0.017832	1.40	1.01	5.67	0.95
T2	5666.73	50 Year	DonPhaseII_Final_Baseline	0.79	249.28	249.49	0.16	249.57	0.020889	1.23	0.69	5.06	0.97
T2	5666.73	100 Year	DonPhaseII_Final_Proposed	0.96	249.28	249.52	0.19	249.60	0.019644	1.30	0.81	5.32	0.96
T2	5666.73	25 Year	DonPhaseII_Final_Baseline	0.57	249.28	249.46	0.13	249.53	0.022519	1.11	0.54	4.70	0.98
T2	5666.73	50 Year	DonPhaseII_Final_Proposed	0.79	249.28	249.49	0.16	249.57	0.020889	1.23	0.69	5.06	0.97
T2	5666.73	10 Year	DonPhaseII_Final_Baseline	0.35	249.28	249.43	0.09	249.47	0.026820	0.97	0.37	4.26	1.01
T2	5666.73	25 Year	DonPhaseII_Final_Proposed	0.57	249.28	249.46	0.13	249.53	0.022519	1.11	0.54	4.70	0.98
T2	5666.73	5 Year	DonPhaseII_Final_Baseline	0.29	249.28	249.42	0.08	249.46	0.027078	0.90	0.33	4.14	0.99
T2	5666.73	10 Year	DonPhaseII_Final_Proposed	0.35	249.28	249.43	0.09	249.47	0.026820	0.97	0.37	4.26	1.01
T2	5666.73	2 Year	DonPhaseII_Final_Baseline	0.21	249.28	249.40	0.07	249.43	0.032966	0.84	0.25	3.92	1.05
T2	5666.73	5 Year	DonPhaseII_Final_Proposed	0.29	249.28	249.42	0.08	249.46	0.027078	0.90	0.33	4.14	0.99
T2	5666.73	2 Year	DonPhaseII_Final_Proposed	0.21	249.28	249.40	0.07	249.43	0.032966	0.84	0.25	3.92	1.05
T2	5614.92	Regional	DonPhaseII_Final_Baseline	20.30	249.02	249.95	0.88	250.06	0.004407	1.55	14.12	18.94	0.53
T2	5614.92	Regional	DonPhaseII_Final_Proposed	20.30	249.02	249.95	0.88	250.06	0.004407	1.55	14.12	18.94	0.53
T2	5614.92	350 Year	DonPhaseII_Final_Baseline	2.58	249.02	249.45	0.38	249.46	0.001021	0.43	5.75	15.05	0.22
T2	5614.92	350 Year	DonPhaseII_Final_Proposed	2.58	249.02	249.45	0.38	249.46	0.001021	0.43	5.75	15.05	0.22
T2	5614.92	100 Year	DonPhaseII_Final_Baseline	0.96	249.02	249.24	0.16	249.25	0.001418	0.30	2.69	13.80	0.24
T2	5614.92	1.3*100 Year	DonPhaseII_Final_Proposed	1.25	249.02	249.28	0.21	249.29	0.001298	0.33	3.29	14.07	0.23
T2	5614.92	50 Year	DonPhaseII_Final_Baseline	0.79	249.02	249.21	0.14	249.22	0.001529	0.28	2.30	13.63	0.24
T2	5614.92	100 Year	DonPhaseII_Final_Proposed	0.96	249.02	249.24	0.16	249.25	0.001418	0.30	2.69	13.80	0.24
T2	5614.92	25 Year	DonPhaseII_Final_Baseline	0.57	249.02	249.17	0.10	249.18	0.001663	0.24	1.79	13.39	0.25
T2	5614.92	50 Year	DonPhaseII_Final_Proposed	0.79	249.02	249.21	0.14	249.22	0.001529	0.28	2.30	13.63	0.24
T2	5614.92	10 Year	DonPhaseII_Final_Baseline	0.35	249.02	249.13	0.06	249.13	0.002037	0.20	1.18	11.75	0.26
T2	5614.92	25 Year	DonPhaseII_Final_Proposed	0.57	249.02	249.17	0.10	249.18	0.001663	0.24	1.79	13.39	0.25
T2	5614.92	5 Year	DonPhaseII_Final_Baseline	0.29	249.02	249.11	0.06	249.11	0.002125	0.19	1.01	11.08	0.26
T2	5614.92	10 Year	DonPhaseII_Final_Proposed	0.35	249.02	249.13	0.06	249.13	0.002037	0.20	1.18	11.75	0.26
T2	5614.92	2 Year	DonPhaseII_Final_Baseline	0.21	249.02	249.09	0.04	249.09	0.002398	0.17	0.77	10.04	0.27
T2	5614.92	5 Year	DonPhaseII_Final_Proposed	0.29	249.02	249.11	0.06	249.11	0.002125	0.19	1.01	11.08	0.26
T2	5614.92	2 Year	DonPhaseII_Final_Proposed	0.21	249.02	249.09	0.04	249.09	0.002398	0.17	0.77	10.04	0.27
T2	5588.7	Regional	DonPhaseII_Final_Baseline	20.30	248.79	249.68	0.78	249.87	0.012534	2.67	19.29	53.72	0.97
T2	5588.7	Regional	DonPhaseII_Final_Proposed	20.30	248.79	249.68	0.78	249.87	0.012534	2.67	19.29	53.72	0.97
T2	5588.7	350 Year	DonPhaseII_Final_Baseline	2.58	248.79	249.23	0.32	249.38	0.017092	1.73	1.52	11.96	0.98
T2	5588.7	350 Year	DonPhaseII_Final_Proposed	2.58	248.79	249.23	0.32	249.38	0.017092	1.73	1.52	11.96	0.98
T2	5588.7	100 Year	DonPhaseII_Final_Baseline	0.96	248.79	249.10	0.20	249.16	0.012304	1.07	0.90	10.49	0.76
T2	5588.7	1.3*100 Year	DonPhaseII_Final_Proposed	1.25	248.79	249.13	0.23	249.21	0.012538	1.18	1.06	10.92	0.79
T2	5588.7	50 Year	DonPhaseII_Final_Baseline	0.79	248.79	249.08	0.18	249.13	0.011223	0.96	0.82	10.27	0.72
T2	5588.7	100 Year	DonPhaseII_Final_Proposed	0.96	248.79	249.10	0.20	249.16	0.012304	1.07	0.90	10.49	0.76
T2	5588.7	25 Year	DonPhaseII_Final_Baseline	0.57	248.79	249.05	0.16	249.09	0.010733	0.85	0.67	9.80	0.69
T2	5588.7	50 Year	DonPhaseII_Final_Proposed	0.79	248.79	249.08	0.18	249.13	0.011223	0.96	0.82	10.27	0.72
T2	5588.7	10 Year	DonPhaseII_Final_Baseline	0.35	248.79	248.99	0.13	249.02	0.012023	0.80	0.44	8.18	0.71
T2	5588.7	25 Year	DonPhaseII_Final_Proposed	0.57	248.79	249.05	0.16	249.09	0.010733	0.85	0.67	9.80	0.69
T2	5588.7	5 Year	DonPhaseII_Final_Baseline	0.29	248.79	248.97	0.12	249.00	0.012154	0.77	0.38	7.72	0.70
T2	5588.7	10 Year	DonPhaseII_Final_Proposed	0.35	248.79	248.99	0.13	249.02	0.012023	0.80	0.44	8.18	0.71
T2	5588.7	2 Year	DonPhaseII_Final_Baseline	0.21	248.79	248.94	0.11	248.97	0.012284	0.72	0.29	7.10	0.69
T2	5588.7	5 Year	DonPhaseII_Final_Proposed	0.29	248.79	248.97	0.12	249.00	0.012154	0.77	0.38	7.72	0.70
T2	5588.7	2 Year	DonPhaseII_Final_Proposed	0.21	248.79	248.94	0.11	248.97	0.012284	0.72	0.29	7.10	0.69

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	5565.95	100 Year	DonPhaseII_Final_Proposed	0.96	248.54	248.64	0.07	248.66	0.047351	1.05	1.94	49.27	1.24
T2	5565.95	25 Year	DonPhaseII_Final_Baseline	0.57	248.54	248.62	0.06	248.64	0.045721	0.90	1.38	47.32	1.21
T2	5565.95	50 Year	DonPhaseII_Final_Proposed	0.79	248.54	248.63	0.06	248.65	0.050730	1.02	1.66	48.31	1.27
T2	5565.95	10 Year	DonPhaseII_Final_Baseline	0.35	248.54	248.61	0.05	248.62	0.026874	0.65	1.18	46.62	0.93
T2	5565.95	25 Year	DonPhaseII_Final_Proposed	0.57	248.54	248.62	0.06	248.64	0.045721	0.90	1.38	47.32	1.21
T2	5565.95	5 Year	DonPhaseII_Final_Baseline	0.29	248.54	248.61	0.05	248.62	0.023808	0.59	1.07	46.08	0.87
T2	5565.95	10 Year	DonPhaseII_Final_Proposed	0.35	248.54	248.61	0.05	248.62	0.026874	0.65	1.18	46.62	0.93
T2	5565.95	2 Year	DonPhaseII_Final_Baseline	0.21	248.54	248.60	0.04	248.61	0.019679	0.51	0.89	43.89	0.79
T2	5565.95	5 Year	DonPhaseII_Final_Proposed	0.29	248.54	248.61	0.05	248.62	0.023808	0.59	1.07	46.08	0.87
T2	5565.95	2 Year	DonPhaseII_Final_Proposed	0.21	248.54	248.60	0.04	248.61	0.019679	0.51	0.89	43.89	0.79
T2	5506.34	Regional	DonPhaseII_Final_Baseline	21.47	247.71	248.48	0.66	248.56	0.007942	1.93	27.34	81.18	0.76
T2	5506.34	Regional	DonPhaseII_Final_Proposed	21.47	247.71	248.48	0.66	248.56	0.007942	1.93	27.34	81.18	0.76
T2	5506.34	350 Year	DonPhaseII_Final_Baseline	2.90	247.71	248.10	0.28	248.12	0.005335	0.88	6.03	29.11	0.54
T2	5506.34	350 Year	DonPhaseII_Final_Proposed	2.90	247.71	248.10	0.28	248.12	0.005335	0.88	6.03	29.11	0.54
T2	5506.34	100 Year	DonPhaseII_Final_Baseline	1.27	247.71	247.99	0.16	248.00	0.006157	0.67	3.18	23.54	0.53
T2	5506.34	1.3*100 Year	DonPhaseII_Final_Proposed	1.65	247.71	248.02	0.20	248.04	0.005728	0.74	4.02	25.31	0.53
T2	5506.34	50 Year	DonPhaseII_Final_Baseline	1.03	247.71	247.96	0.14	247.98	0.006282	0.62	2.72	20.87	0.52
T2	5506.34	100 Year	DonPhaseII_Final_Proposed	1.27	247.71	247.99	0.16	248.00	0.006157	0.67	3.18	23.54	0.53
T2	5506.34	25 Year	DonPhaseII_Final_Baseline	0.69	247.71	247.93	0.11	247.94	0.006753	0.53	2.00	18.55	0.52
T2	5506.34	50 Year	DonPhaseII_Final_Proposed	1.03	247.71	247.96	0.14	247.98	0.006282	0.62	2.72	20.87	0.52
T2	5506.34	10 Year	DonPhaseII_Final_Baseline	0.37	247.71	247.87	0.08	247.88	0.009007	0.49	1.16	13.19	0.57
T2	5506.34	25 Year	DonPhaseII_Final_Proposed	0.69	247.71	247.93	0.11	247.94	0.006753	0.53	2.00	18.55	0.52
T2	5506.34	5 Year	DonPhaseII_Final_Baseline	0.31	247.71	247.86	0.07	247.87	0.009852	0.50	0.99	12.36	0.59
T2	5506.34	10 Year	DonPhaseII_Final_Proposed	0.37	247.71	247.87	0.08	247.88	0.009007	0.49	1.16	13.19	0.57
T2	5506.34	2 Year	DonPhaseII_Final_Baseline	0.22	247.71	247.84	0.06	247.85	0.011365	0.49	0.75	11.37	0.61
T2	5506.34	5 Year	DonPhaseII_Final_Proposed	0.31	247.71	247.86	0.07	247.87	0.009852	0.50	0.99	12.36	0.59
T2	5506.34	2 Year	DonPhaseII_Final_Proposed	0.22	247.71	247.84	0.06	247.85	0.011365	0.49	0.75	11.37	0.61
T2	5406.68	Regional	DonPhaseII_Final_Baseline	21.47	246.29	247.60	1.06	247.70	0.012236	2.19	23.34	59.32	0.68
T2	5406.68	Regional	DonPhaseII_Final_Proposed	21.47	246.29	247.60	1.06	247.70	0.012236	2.19	23.34	59.32	0.68
T2	5406.68	350 Year	DonPhaseII_Final_Baseline	2.90	246.29	246.97	0.43	247.12	0.029275	1.86	2.34	12.77	0.90
T2	5406.68	350 Year	DonPhaseII_Final_Proposed	2.90	246.29	246.97	0.43	247.12	0.029275	1.86	2.34	12.77	0.90
T2	5406.68	100 Year	DonPhaseII_Final_Baseline	1.27	246.29	246.84	0.30	246.93	0.025809	1.36	1.11	6.87	0.80
T2	5406.68	1.3*100 Year	DonPhaseII_Final_Proposed	1.65	246.29	246.87	0.33	246.99	0.028743	1.54	1.35	7.73	0.86
T2	5406.68	50 Year	DonPhaseII_Final_Baseline	1.03	246.29	246.81	0.27	246.89	0.026168	1.27	0.91	6.05	0.79
T2	5406.68	100 Year	DonPhaseII_Final_Proposed	1.27	246.29	246.84	0.30	246.93	0.025809	1.36	1.11	6.87	0.80
T2	5406.68	25 Year	DonPhaseII_Final_Baseline	0.69	246.29	246.76	0.22	246.82	0.024673	1.08	0.65	4.19	0.74
T2	5406.68	50 Year	DonPhaseII_Final_Proposed	1.03	246.29	246.81	0.27	246.89	0.026168	1.27	0.91	6.05	0.79
T2	5406.68	10 Year	DonPhaseII_Final_Baseline	0.37	246.29	246.66	0.17	246.71	0.017573	0.98	0.38	2.19	0.76
T2	5406.68	25 Year	DonPhaseII_Final_Proposed	0.69	246.29	246.76	0.22	246.82	0.024673	1.08	0.65	4.19	0.74
T2	5406.68	5 Year	DonPhaseII_Final_Baseline	0.31	246.29	246.62	0.16	246.68	0.016126	1.03	0.30	1.86	0.82
T2	5406.68	10 Year	DonPhaseII_Final_Proposed	0.37	246.29	246.66	0.17	246.71	0.017573	0.98	0.38	2.19	0.76
T2	5406.68	2 Year	DonPhaseII_Final_Baseline	0.22	246.29	246.59	0.15	246.63	0.014265	0.92	0.24	1.61	0.76
T2	5406.68	5 Year	DonPhaseII_Final_Proposed	0.31	246.29	246.62	0.16	246.68	0.016126	1.03	0.30	1.86	0.82
T2	5406.68	2 Year	DonPhaseII_Final_Proposed	0.22	246.29	246.59	0.15	246.63	0.014265	0.92	0.24	1.61	0.76
T2	5339.73	Regional	DonPhaseII_Final_Baseline	21.47	245.42	246.83	1.14	247.00	0.009841	2.32	18.52	40.34	0.69
T2	5339.73	Regional	DonPhaseII_Final_Proposed	21.47	245.42	246.83	1.14	247.00	0.009841	2.32	18.52	40.34	0.69
T2	5339.73	350 Year	DonPhaseII_Final_Baseline	2.90	245.42	246.22	0.54	246.27	0.005273	1.03	3.42	11.14	0.45
T2	5339.73	350 Year	DonPhaseII_Final_Proposed	2.90	245.42	246.22	0.54	246.27	0.005273	1.03	3.42	11.14	0.45
T2	5339.73	100 Year	DonPhaseII_Final_Baseline	1.27	245.42	245.98	0.30	246.02	0.008258	0.88	1.45	5.10	0.51
T2	5339.73	1.3*100 Year	DonPhaseII_Final_Proposed	1.65	245.42	246.05	0.36	246.09	0.007122	0.92	1.88	7.41	0.49
T2	5339.73	50 Year	DonPhaseII_Final_Baseline	1.03	245.42	245.91	0.26	245.95	0.008608	0.93	1.11	4.31	0.58
T2	5339.73	100 Year	DonPhaseII_Final_Proposed	1.27	245.42	245.98	0.30	246.02	0.008258	0.88	1.45	5.10	0.51
T2	5339.73	25 Year	DonPhaseII_Final_Baseline	0.69	245.42	245.80	0.21	245.85	0.009512	0.97	0.71	3.40	0.67
T2	5339.73	50 Year	DonPhaseII_Final_Proposed	1.03	245.42	245.91	0.26	245.95	0.008608	0.93	1.11	4.31	0.58
T2	5339.73	10 Year	DonPhaseII_Final_Baseline	0.37	245.42	245.70	0.15	245.74	0.011974	0.89	0.42	2.71	0.72
T2	5339.73	25 Year	DonPhaseII_Final_Proposed	0.69	245.42	245.80	0.21	245.85	0.009512	0.97	0.71	3.40	0.67
T2	5339.73	5 Year	DonPhaseII_Final_Baseline	0.31	245.42	245.68	0.14	245.72	0.012643	0.86	0.36	2.55	0.73
T2	5339.73	10 Year	DonPhaseII_Final_Proposed	0.37	245.42	245.70	0.15	245.74	0.011974	0.89	0.42	2.71	0.72
T2	5339.73	2 Year	DonPhaseII_Final_Baseline	0.22	245.42	245.65	0.12	245.68	0.014003	0.81	0.27	2.29	0.75
T2	5339.73	5 Year	DonPhaseII_Final_Proposed	0.31	245.42	245.68	0.14	245.72	0.012643	0.86	0.36	2.55	0.73
T2	5339.73	2 Year	DonPhaseII_Final_Proposed	0.22	245.42	245.65	0.12	245.68	0.014003	0.81	0.27	2.29	0.75
T2	5266.38	Regional	DonPhaseII_Final_Baseline	21.47	244.91	246.36	1.37	246.49	0.005630	2.61	33.38	95.92	0.71
T2	5266.38	Regional	DonPhaseII_Final_Proposed	21.47	244.91	246.36	1.37	246.49	0.005630	2.61	33.38	95.92	0.71
T2	5266.38	350 Year	DonPhaseII_Final_Baseline	2.90	244.91	245.66	0.67	245.82	0.007359	1.85	2.17	4.92	0.72
T2	5266.38	350 Year	DonPhaseII_Final_Proposed	2.90	244.91	245.66	0.67	245.82	0.007359	1.85	2.17	4.92	0.72
T2	5266.38	100 Year	DonPhaseII_Final_Baseline	1.27	244.91	245.45	0.46	245.52	0.005609	1.25	1.25	3.78	0.59
T2	5266.38	1.3*100 Year	DonPhaseII_Final_Proposed	1.65	244.91	245.50	0.52	245.60	0.006251	1.43	1.47	4.06	0.64
T2	5266.38	50 Year	DonPhaseII_Final_Baseline	1.03	244.91	245.40	0.42	245.47	0.005210	1.13	1.09	3.58	0.56
T2	5266.38	100 Year	DonPhaseII_Final_Proposed	1.27	244.91	245.45	0.46	245.52	0.005609	1.25	1.25	3.78	0.59
T2	5266.38	25 Year	DonPhaseII_Final_Baseline	0.69	244.91	245.33	0.34	245.37	0.004719	0.94	0.84	3.21	0.52
T2	5266.38	50 Year	DonPhaseII_Final_Proposed	1.03	244.91	245.40	0.42	245.47	0.005210	1.13	1.09	3.58	0.56
T2	5266.38	10 Year	DonPhaseII_Final_Baseline	0.37	244.91	245.24	0.25	245.26	0.004137	0.71	0.56	2.75	0.46
T2	5266.38	25 Year	DonPhaseII_Final_Proposed	0.69	244.91	245.33	0.34	245.37	0.004719	0.94	0.84	3.21	0.52
T2	5266.38	5 Year	DonPhaseII_Final_Baseline	0.31	244.91	245.21	0.23	245.23	0.004032	0.66	0.50	2.64	0.44
T2	5266.38	10 Year	DonPhaseII_Final_Proposed	0.37	244.91	245.24	0.25	245.26	0.004137	0.71	0.56	2.75	0.46
T2	5266.38	2 Year	DonPhaseII_Final_Baseline	0.22	244.91	245.17	0.19	245.19	0.003851	0.57	0.40	2.46	0.42
T2	5266.38	5 Year	DonPhaseII_Final_Proposed	0.31	244.91	245.21	0.23	245.23	0.004032	0.66	0.50	2.64	0.44
T2	5266.38	2 Year	DonPhaseII_Final_Proposed	0.22	244.91	245.17	0.19	245.19	0.003851	0.57	0.40	2.46	0.42
T2	5166.38	Regional	DonPhaseII_Final_Baseline	21.47	244.22	245.81	1.48	246.01	0.005116	2.63	24.95	57.35	0.69
T2	5166.38	Regional	DonPhaseII_Final_Proposed	21.47	244.22	245.81	1.48	246.01	0.005116	2.63	24.95	57.35	0.69
T2	5166.38	350 Year	DonPhaseII_Final_Baseline	2.90	244.22	244.83	0.50	244.99	0.010315	1.80	2.03	5.76	0.82
T2	5166.38	350 Year	DonPhaseII_Final_Proposed	2.90	244.22	244.83	0.50	244.99	0.010315	1.80	2.03	5.76	0.82
T2	5166.38	100 Year	DonPhaseII_Final_Baseline	1.27	244.22	244.63	0.30	244.73	0.012624	1.41	1.00	4.41	0.83
T2	5166.38	1.3*100 Year	DonPhaseII_Final_Proposed	1.65	244.22	244.69	0.35	244.80	0.011300	1.50	1.27	4.80	0.81
T2	5166.38	50 Year	DonPhaseII_Final_Baseline	1.03	244.22	244.59	0.26	244.68	0.013629	1.33	0.83		

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	5166.38	2 Year	DonPhaseII_Final_Baseline	0.22	244.22	244.42	0.10	244.45	0.019170	0.86	0.25	2.45	0.86
T2	5166.38	5 Year	DonPhaseII_Final_Proposed	0.31	244.22	244.45	0.12	244.49	0.018107	0.93	0.33	2.79	0.85
T2	5166.38	2 Year	DonPhaseII_Final_Proposed	0.22	244.22	244.42	0.10	244.45	0.019170	0.86	0.25	2.45	0.86
T2	5066.99	Regional	DonPhaseII_Final_Baseline	21.47	243.57	245.11	1.49	245.31	0.005001	2.63	25.03	57.99	0.69
T2	5066.99	Regional	DonPhaseII_Final_Proposed	21.47	243.57	245.11	1.49	245.31	0.005001	2.63	25.03	57.99	0.69
T2	5066.99	350 Year	DonPhaseII_Final_Baseline	2.90	243.57	244.24	0.62	244.33	0.004573	1.40	2.80	6.63	0.57
T2	5066.99	350 Year	DonPhaseII_Final_Proposed	2.90	243.57	244.24	0.62	244.33	0.004573	1.40	2.80	6.63	0.57
T2	5066.99	100 Year	DonPhaseII_Final_Baseline	1.27	243.57	244.03	0.41	244.08	0.003947	0.98	1.56	5.15	0.49
T2	5066.99	1.3*100 Year	DonPhaseII_Final_Proposed	1.65	243.57	244.08	0.46	244.14	0.004255	1.11	1.85	5.53	0.52
T2	5066.99	50 Year	DonPhaseII_Final_Baseline	1.03	243.57	243.99	0.37	244.03	0.003772	0.89	1.35	4.87	0.47
T2	5066.99	100 Year	DonPhaseII_Final_Proposed	1.27	243.57	244.03	0.41	244.08	0.003947	0.98	1.56	5.15	0.49
T2	5066.99	25 Year	DonPhaseII_Final_Baseline	0.69	243.57	243.92	0.29	243.94	0.003614	0.76	1.02	4.39	0.45
T2	5066.99	50 Year	DonPhaseII_Final_Proposed	1.03	243.57	243.99	0.37	244.03	0.003772	0.89	1.35	4.87	0.47
T2	5066.99	10 Year	DonPhaseII_Final_Baseline	0.37	243.57	243.83	0.21	243.85	0.003404	0.58	0.67	3.80	0.41
T2	5066.99	25 Year	DonPhaseII_Final_Proposed	0.69	243.57	243.92	0.29	243.94	0.003614	0.76	1.02	4.39	0.45
T2	5066.99	5 Year	DonPhaseII_Final_Baseline	0.31	243.57	243.81	0.19	243.83	0.003397	0.54	0.60	3.66	0.40
T2	5066.99	10 Year	DonPhaseII_Final_Proposed	0.37	243.57	243.83	0.21	243.85	0.003404	0.58	0.67	3.80	0.41
T2	5066.99	2 Year	DonPhaseII_Final_Baseline	0.22	243.57	243.78	0.15	243.79	0.003323	0.47	0.48	3.42	0.38
T2	5066.99	5 Year	DonPhaseII_Final_Proposed	0.31	243.57	243.81	0.19	243.83	0.003397	0.54	0.60	3.66	0.40
T2	5066.99	2 Year	DonPhaseII_Final_Proposed	0.22	243.57	243.78	0.15	243.79	0.003323	0.47	0.48	3.42	0.38
T2	5017.21	Regional	DonPhaseII_Final_Baseline	21.47	243.24	244.52	1.23	244.73	0.010089	2.86	19.30	37.98	0.82
T2	5017.21	Regional	DonPhaseII_Final_Proposed	21.47	243.24	244.52	1.23	244.73	0.010089	2.86	19.30	37.98	0.82
T2	5017.21	350 Year	DonPhaseII_Final_Baseline	2.90	243.24	243.78	0.49	243.95	0.014733	1.89	1.96	6.27	0.86
T2	5017.21	350 Year	DonPhaseII_Final_Proposed	2.90	243.24	243.78	0.49	243.95	0.014733	1.89	1.96	6.27	0.86
T2	5017.21	100 Year	DonPhaseII_Final_Baseline	1.27	243.24	243.57	0.28	243.69	0.020532	1.55	0.92	4.05	0.93
T2	5017.21	1.3*100 Year	DonPhaseII_Final_Proposed	1.65	243.24	243.64	0.35	243.76	0.016845	1.61	1.20	4.53	0.87
T2	5017.21	50 Year	DonPhaseII_Final_Baseline	1.03	243.24	243.53	0.24	243.64	0.023323	1.49	0.76	3.82	0.97
T2	5017.21	100 Year	DonPhaseII_Final_Proposed	1.27	243.24	243.57	0.28	243.69	0.020532	1.55	0.92	4.05	0.93
T2	5017.21	25 Year	DonPhaseII_Final_Baseline	0.69	243.24	243.47	0.18	243.56	0.024983	1.31	0.56	3.51	0.97
T2	5017.21	50 Year	DonPhaseII_Final_Proposed	1.03	243.24	243.53	0.24	243.64	0.023323	1.49	0.76	3.82	0.97
T2	5017.21	10 Year	DonPhaseII_Final_Baseline	0.37	243.24	243.41	0.12	243.47	0.028802	1.09	0.35	3.05	1.00
T2	5017.21	25 Year	DonPhaseII_Final_Proposed	0.69	243.24	243.47	0.18	243.56	0.024983	1.31	0.56	3.51	0.97
T2	5017.21	5 Year	DonPhaseII_Final_Baseline	0.31	243.24	243.40	0.11	243.45	0.028421	1.03	0.31	2.92	0.99
T2	5017.21	10 Year	DonPhaseII_Final_Proposed	0.37	243.24	243.41	0.12	243.47	0.028802	1.09	0.35	3.05	1.00
T2	5017.21	2 Year	DonPhaseII_Final_Baseline	0.22	243.24	243.37	0.09	243.42	0.028473	0.93	0.24	2.69	0.99
T2	5017.21	5 Year	DonPhaseII_Final_Proposed	0.31	243.24	243.40	0.11	243.45	0.028421	1.03	0.31	2.92	0.99
T2	5017.21	2 Year	DonPhaseII_Final_Proposed	0.22	243.24	243.37	0.09	243.42	0.028473	0.93	0.24	2.69	0.99
T2	4940.48	Regional	DonPhaseII_Final_Baseline	22.33	242.02	243.73	1.67	243.99	0.006270	3.03	21.16	39.43	0.75
T2	4940.48	Regional	DonPhaseII_Final_Proposed	22.33	242.02	243.73	1.67	243.99	0.006270	3.03	21.16	39.43	0.75
T2	4940.48	350 Year	DonPhaseII_Final_Baseline	3.14	242.02	242.59	0.53	242.82	0.014976	2.20	1.86	4.92	0.96
T2	4940.48	350 Year	DonPhaseII_Final_Proposed	3.14	242.02	242.59	0.53	242.82	0.014976	2.20	1.86	4.92	0.96
T2	4940.48	100 Year	DonPhaseII_Final_Baseline	1.50	242.02	242.44	0.37	242.55	0.011731	1.55	1.16	4.09	0.81
T2	4940.48	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	242.02	242.48	0.42	242.63	0.013267	1.78	1.35	4.33	0.88
T2	4940.48	50 Year	DonPhaseII_Final_Baseline	1.20	242.02	242.40	0.34	242.49	0.010792	1.39	1.01	3.89	0.76
T2	4940.48	100 Year	DonPhaseII_Final_Proposed	1.50	242.02	242.44	0.37	242.55	0.011731	1.55	1.16	4.09	0.81
T2	4940.48	25 Year	DonPhaseII_Final_Baseline	0.79	242.02	242.34	0.27	242.40	0.009825	1.16	0.77	3.54	0.71
T2	4940.48	50 Year	DonPhaseII_Final_Proposed	1.20	242.02	242.40	0.34	242.49	0.010792	1.39	1.01	3.89	0.76
T2	4940.48	10 Year	DonPhaseII_Final_Baseline	0.39	242.02	242.25	0.19	242.29	0.008815	0.86	0.48	3.04	0.63
T2	4940.48	25 Year	DonPhaseII_Final_Proposed	0.79	242.02	242.34	0.27	242.40	0.009825	1.16	0.77	3.54	0.71
T2	4940.48	5 Year	DonPhaseII_Final_Baseline	0.32	242.02	242.23	0.17	242.26	0.008392	0.78	0.43	2.93	0.61
T2	4940.48	10 Year	DonPhaseII_Final_Proposed	0.39	242.02	242.25	0.19	242.29	0.008815	0.86	0.48	3.04	0.63
T2	4940.48	2 Year	DonPhaseII_Final_Baseline	0.23	242.02	242.20	0.14	242.22	0.008401	0.69	0.34	2.74	0.60
T2	4940.48	5 Year	DonPhaseII_Final_Proposed	0.32	242.02	242.23	0.17	242.26	0.008392	0.78	0.43	2.93	0.61
T2	4940.48	2 Year	DonPhaseII_Final_Proposed	0.23	242.02	242.20	0.14	242.22	0.008401	0.69	0.34	2.74	0.60
T2	4910.32	Regional	DonPhaseII_Final_Baseline	22.33	241.75	243.05	1.14	243.20	0.005198	2.21	24.88	49.69	0.66
T2	4910.32	Regional	DonPhaseII_Final_Proposed	22.33	241.75	243.05	1.14	243.20	0.005198	2.21	24.88	49.69	0.66
T2	4910.32	350 Year	DonPhaseII_Final_Baseline	3.14	241.75	242.37	0.45	242.46	0.006844	1.36	2.57	7.99	0.65
T2	4910.32	350 Year	DonPhaseII_Final_Proposed	3.14	241.75	242.37	0.45	242.46	0.006844	1.36	2.57	7.99	0.65
T2	4910.32	100 Year	DonPhaseII_Final_Baseline	1.50	241.75	242.20	0.29	242.26	0.007384	1.05	1.46	5.61	0.63
T2	4910.32	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	241.75	242.25	0.34	242.32	0.007151	1.15	1.76	6.08	0.63
T2	4910.32	50 Year	DonPhaseII_Final_Baseline	1.20	241.75	242.16	0.26	242.21	0.007471	0.98	1.24	5.14	0.62
T2	4910.32	100 Year	DonPhaseII_Final_Proposed	1.50	241.75	242.20	0.29	242.26	0.007384	1.05	1.46	5.61	0.63
T2	4910.32	25 Year	DonPhaseII_Final_Baseline	0.79	241.75	242.10	0.21	242.13	0.007601	0.85	0.93	4.61	0.60
T2	4910.32	50 Year	DonPhaseII_Final_Proposed	1.20	241.75	242.16	0.26	242.21	0.007471	0.98	1.24	5.14	0.62
T2	4910.32	10 Year	DonPhaseII_Final_Baseline	0.39	241.75	242.02	0.15	242.04	0.007510	0.67	0.58	3.98	0.56
T2	4910.32	25 Year	DonPhaseII_Final_Proposed	0.79	241.75	242.10	0.21	242.13	0.007601	0.85	0.93	4.61	0.60
T2	4910.32	5 Year	DonPhaseII_Final_Baseline	0.32	241.75	242.00	0.13	242.02	0.007547	0.63	0.51	3.84	0.56
T2	4910.32	10 Year	DonPhaseII_Final_Proposed	0.39	241.75	242.02	0.15	242.04	0.007510	0.67	0.58	3.98	0.56
T2	4910.32	2 Year	DonPhaseII_Final_Baseline	0.23	241.75	241.97	0.11	241.99	0.007187	0.56	0.41	3.65	0.53
T2	4910.32	5 Year	DonPhaseII_Final_Proposed	0.32	241.75	242.00	0.13	242.02	0.007547	0.63	0.51	3.84	0.56
T2	4910.32	2 Year	DonPhaseII_Final_Proposed	0.23	241.75	241.97	0.11	241.99	0.007187	0.56	0.41	3.65	0.53
T2	4858.16	Regional	DonPhaseII_Final_Baseline	22.33	241.10	242.34	1.16	242.72	0.016861	4.07	15.21	37.56	1.21
T2	4858.16	Regional	DonPhaseII_Final_Proposed	22.33	241.10	242.34	1.16	242.72	0.016861	4.07	15.21	37.56	1.21
T2	4858.16	350 Year	DonPhaseII_Final_Baseline	3.14	241.10	241.78	0.60	241.99	0.011819	2.20	2.34	10.80	0.90
T2	4858.16	350 Year	DonPhaseII_Final_Proposed	3.14	241.10	241.78	0.60	241.99	0.011819	2.20	2.34	10.80	0.90
T2	4858.16	100 Year	DonPhaseII_Final_Baseline	1.50	241.10	241.55	0.38	241.71	0.015435	1.84	1.05	4.04	0.96
T2	4858.16	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	241.10	241.62	0.44	241.80	0.014468	1.98	1.33	4.53	0.95
T2	4858.16	50 Year	DonPhaseII_Final_Baseline	1.20	241.10	241.50	0.33	241.64	0.016413	1.72	0.86	3.67	0.96
T2	4858.16	100 Year	DonPhaseII_Final_Proposed	1.50	241.10	241.55	0.38	241.71	0.015435	1.84	1.05	4.04	0.96
T2	4858.16	25 Year	DonPhaseII_Final_Baseline	0.79	241.10	241.43	0.25	241.54	0.018207	1.52	0.60	3.15	0.97
T2	4858.16	50 Year	DonPhaseII_Final_Proposed	1.20	241.10	241.50	0.33	241.64	0.016413	1.72	0.86	3.67	0.96
T2	4858.16	10 Year	DonPhaseII_Final_Baseline	0.39	241.10	241.33	0.16	241.41	0.022015	1.23	0.34	2.54	0.99
T2	4858.16	25 Year	DonPhaseII_Final_Proposed	0.79	241.10	241.43	0.25	241.54	0.018207	1.52	0.60	3.15	0.97
T2	4858.16	5 Year	DonPhaseII_Final_Baseline	0.32	241.10	241.31	0.14	241.38	0.022496	1.14	0.29	2.42	0.98
T2	4858.16	10 Year	DonPhaseII_Final_Proposed	0.39	241.10	2							

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	4799.9	350 Year	DonPhaseII_Final_Proposed	3.14	240.24	241.07	0.67	241.11	0.002025	0.97	4.43	8.76	0.38
T2	4799.9	100 Year	DonPhaseII_Final_Baseline	1.50	240.24	240.81	0.41	240.84	0.002600	0.80	2.36	7.40	0.40
T2	4799.9	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	240.24	240.89	0.49	240.92	0.002372	0.85	2.95	7.82	0.39
T2	4799.9	50 Year	DonPhaseII_Final_Baseline	1.20	240.24	240.76	0.36	240.78	0.002812	0.75	1.95	7.01	0.40
T2	4799.9	100 Year	DonPhaseII_Final_Proposed	1.50	240.24	240.81	0.41	240.84	0.002600	0.80	2.36	7.40	0.40
T2	4799.9	25 Year	DonPhaseII_Final_Baseline	0.79	240.24	240.66	0.27	240.69	0.003487	0.69	1.34	6.36	0.43
T2	4799.9	50 Year	DonPhaseII_Final_Proposed	1.20	240.24	240.76	0.36	240.78	0.002812	0.75	1.95	7.01	0.40
T2	4799.9	10 Year	DonPhaseII_Final_Baseline	0.39	240.24	240.56	0.17	240.58	0.004356	0.57	0.73	5.27	0.44
T2	4799.9	25 Year	DonPhaseII_Final_Proposed	0.79	240.24	240.66	0.27	240.69	0.003487	0.69	1.34	6.36	0.43
T2	4799.9	5 Year	DonPhaseII_Final_Baseline	0.32	240.24	240.54	0.15	240.55	0.004585	0.54	0.62	5.05	0.44
T2	4799.9	10 Year	DonPhaseII_Final_Proposed	0.39	240.24	240.56	0.17	240.58	0.004356	0.57	0.73	5.27	0.44
T2	4799.9	2 Year	DonPhaseII_Final_Baseline	0.23	240.24	240.50	0.13	240.52	0.004839	0.51	0.46	3.64	0.45
T2	4799.9	5 Year	DonPhaseII_Final_Proposed	0.32	240.24	240.54	0.15	240.55	0.004585	0.54	0.62	5.05	0.44
T2	4799.9	2 Year	DonPhaseII_Final_Proposed	0.23	240.24	240.50	0.13	240.52	0.004839	0.51	0.46	3.64	0.45
T2	4766.27	Regional	DonPhaseII_Final_Baseline	22.33	240.07	241.77	1.67	242.19	0.010909	3.77	13.18	15.57	0.93
T2	4766.27	Regional	DonPhaseII_Final_Proposed	22.33	240.07	241.77	1.67	242.19	0.010909	3.77	13.18	15.57	0.93
T2	4766.27	350 Year	DonPhaseII_Final_Baseline	3.14	240.07	240.70	0.60	240.94	0.015980	2.33	1.86	4.53	0.96
T2	4766.27	350 Year	DonPhaseII_Final_Proposed	3.14	240.07	240.70	0.60	240.94	0.015980	2.33	1.86	4.53	0.96
T2	4766.27	100 Year	DonPhaseII_Final_Baseline	1.50	240.07	240.48	0.38	240.64	0.018362	1.86	0.99	3.40	0.96
T2	4766.27	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	240.07	240.55	0.45	240.74	0.017609	2.02	1.23	3.74	0.96
T2	4766.27	50 Year	DonPhaseII_Final_Baseline	1.20	240.07	240.43	0.34	240.57	0.018349	1.71	0.84	3.20	0.94
T2	4766.27	100 Year	DonPhaseII_Final_Proposed	1.50	240.07	240.48	0.38	240.64	0.018362	1.86	0.99	3.40	0.96
T2	4766.27	25 Year	DonPhaseII_Final_Baseline	0.79	240.07	240.38	0.28	240.47	0.014260	1.36	0.68	2.98	0.81
T2	4766.27	50 Year	DonPhaseII_Final_Proposed	1.20	240.07	240.43	0.34	240.57	0.018349	1.71	0.84	3.20	0.94
T2	4766.27	10 Year	DonPhaseII_Final_Baseline	0.39	240.07	240.29	0.19	240.34	0.012742	1.01	0.43	2.60	0.73
T2	4766.27	25 Year	DonPhaseII_Final_Proposed	0.79	240.07	240.38	0.28	240.47	0.014260	1.36	0.68	2.98	0.81
T2	4766.27	5 Year	DonPhaseII_Final_Baseline	0.32	240.07	240.27	0.17	240.31	0.012315	0.92	0.38	2.51	0.71
T2	4766.27	10 Year	DonPhaseII_Final_Proposed	0.39	240.07	240.29	0.19	240.34	0.012742	1.01	0.43	2.60	0.73
T2	4766.27	2 Year	DonPhaseII_Final_Baseline	0.23	240.07	240.24	0.14	240.27	0.011781	0.81	0.30	2.39	0.68
T2	4766.27	5 Year	DonPhaseII_Final_Proposed	0.32	240.07	240.27	0.17	240.31	0.012315	0.92	0.38	2.51	0.71
T2	4766.27	2 Year	DonPhaseII_Final_Proposed	0.23	240.07	240.24	0.14	240.27	0.011781	0.81	0.30	2.39	0.68
T2	4731.75	Regional	DonPhaseII_Final_Baseline	22.33	239.44	240.80	1.08	241.15	0.010492	3.00	11.54	18.42	0.92
T2	4731.75	Regional	DonPhaseII_Final_Proposed	22.33	239.44	240.80	1.08	241.15	0.010492	3.00	11.54	18.42	0.92
T2	4731.75	350 Year	DonPhaseII_Final_Baseline	3.14	239.44	240.05	0.37	240.23	0.017770	1.89	1.66	4.70	1.00
T2	4731.75	350 Year	DonPhaseII_Final_Proposed	3.14	239.44	240.05	0.37	240.23	0.017770	1.89	1.66	4.70	1.00
T2	4731.75	100 Year	DonPhaseII_Final_Baseline	1.50	239.44	239.89	0.26	240.01	0.017733	1.51	0.99	3.82	0.95
T2	4731.75	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	239.44	239.94	0.29	240.08	0.017888	1.63	1.20	4.13	0.97
T2	4731.75	50 Year	DonPhaseII_Final_Baseline	1.20	239.44	239.86	0.24	239.96	0.016890	1.40	0.86	3.60	0.91
T2	4731.75	100 Year	DonPhaseII_Final_Proposed	1.50	239.44	239.89	0.26	240.01	0.017733	1.51	0.99	3.82	0.95
T2	4731.75	25 Year	DonPhaseII_Final_Baseline	0.79	239.44	239.77	0.19	239.86	0.022233	1.39	0.57	2.94	1.01
T2	4731.75	50 Year	DonPhaseII_Final_Proposed	1.20	239.44	239.86	0.24	239.96	0.016890	1.40	0.86	3.60	0.91
T2	4731.75	10 Year	DonPhaseII_Final_Baseline	0.39	239.44	239.68	0.14	239.75	0.024524	1.17	0.33	2.42	1.01
T2	4731.75	25 Year	DonPhaseII_Final_Proposed	0.79	239.44	239.77	0.19	239.86	0.022233	1.39	0.57	2.94	1.01
T2	4731.75	5 Year	DonPhaseII_Final_Baseline	0.32	239.44	239.66	0.12	239.72	0.025506	1.12	0.29	2.29	1.01
T2	4731.75	10 Year	DonPhaseII_Final_Proposed	0.39	239.44	239.68	0.14	239.75	0.024524	1.17	0.33	2.42	1.01
T2	4731.75	2 Year	DonPhaseII_Final_Baseline	0.23	239.44	239.63	0.11	239.68	0.027115	1.03	0.22	2.11	1.01
T2	4731.75	5 Year	DonPhaseII_Final_Proposed	0.32	239.44	239.66	0.12	239.72	0.025506	1.12	0.29	2.29	1.01
T2	4731.75	2 Year	DonPhaseII_Final_Proposed	0.23	239.44	239.63	0.11	239.68	0.027115	1.03	0.22	2.11	1.01
T2	4671.28	Regional	DonPhaseII_Final_Baseline	22.33	238.42	239.82	1.33	240.06	0.009086	3.28	20.45	36.40	0.91
T2	4671.28	Regional	DonPhaseII_Final_Proposed	22.33	238.42	239.82	1.33	240.06	0.009086	3.28	20.45	36.40	0.91
T2	4671.28	350 Year	DonPhaseII_Final_Baseline	3.14	238.42	239.06	0.57	239.28	0.013494	2.27	2.11	5.85	0.96
T2	4671.28	350 Year	DonPhaseII_Final_Proposed	3.14	238.42	239.06	0.57	239.28	0.013494	2.27	2.11	5.85	0.96
T2	4671.28	100 Year	DonPhaseII_Final_Baseline	1.50	238.42	238.86	0.37	239.01	0.015259	1.81	1.10	4.26	0.95
T2	4671.28	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	238.42	238.92	0.43	239.10	0.014723	1.97	1.37	4.72	0.96
T2	4671.28	50 Year	DonPhaseII_Final_Baseline	1.20	238.42	238.81	0.32	238.95	0.016245	1.70	0.90	3.94	0.96
T2	4671.28	100 Year	DonPhaseII_Final_Proposed	1.50	238.42	238.86	0.37	239.01	0.015259	1.81	1.10	4.26	0.95
T2	4671.28	25 Year	DonPhaseII_Final_Baseline	0.79	238.42	238.77	0.28	238.85	0.012460	1.34	0.72	3.63	0.82
T2	4671.28	50 Year	DonPhaseII_Final_Proposed	1.20	238.42	238.81	0.32	238.95	0.016245	1.70	0.90	3.94	0.96
T2	4671.28	10 Year	DonPhaseII_Final_Baseline	0.39	238.42	238.71	0.22	238.74	0.007060	0.86	0.52	3.18	0.59
T2	4671.28	25 Year	DonPhaseII_Final_Proposed	0.79	238.42	238.77	0.28	238.85	0.012460	1.34	0.72	3.63	0.82
T2	4671.28	5 Year	DonPhaseII_Final_Baseline	0.32	238.42	238.69	0.20	238.72	0.006403	0.78	0.47	3.04	0.55
T2	4671.28	10 Year	DonPhaseII_Final_Proposed	0.39	238.42	238.71	0.22	238.74	0.007060	0.86	0.52	3.18	0.59
T2	4671.28	2 Year	DonPhaseII_Final_Baseline	0.23	238.42	238.66	0.17	238.68	0.005655	0.66	0.38	2.81	0.51
T2	4671.28	5 Year	DonPhaseII_Final_Proposed	0.32	238.42	238.69	0.20	238.72	0.006403	0.78	0.47	3.04	0.55
T2	4671.28	2 Year	DonPhaseII_Final_Proposed	0.23	238.42	238.66	0.17	238.68	0.005655	0.66	0.38	2.81	0.51
T2	4566.35	Regional	DonPhaseII_Final_Baseline	22.33	237.54	239.09	1.42	239.12	0.001032	1.15	45.90	45.08	0.31
T2	4566.35	Regional	DonPhaseII_Final_Proposed	22.33	237.54	239.09	1.42	239.12	0.001032	1.15	45.90	45.08	0.31
T2	4566.35	350 Year	DonPhaseII_Final_Baseline	3.14	237.54	238.15	0.47	238.18	0.003363	0.99	6.85	28.91	0.46
T2	4566.35	350 Year	DonPhaseII_Final_Proposed	3.14	237.54	238.15	0.47	238.18	0.003363	0.99	6.85	28.91	0.46
T2	4566.35	100 Year	DonPhaseII_Final_Baseline	1.50	237.54	237.98	0.30	238.01	0.004938	0.90	3.00	16.81	0.52
T2	4566.35	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	237.54	238.03	0.35	238.06	0.004440	0.94	3.90	18.98	0.51
T2	4566.35	50 Year	DonPhaseII_Final_Baseline	1.20	237.54	237.94	0.27	237.97	0.005449	0.87	2.40	15.74	0.54
T2	4566.35	100 Year	DonPhaseII_Final_Proposed	1.50	237.54	237.98	0.30	238.01	0.004938	0.90	3.00	16.81	0.52
T2	4566.35	25 Year	DonPhaseII_Final_Baseline	0.79	237.54	237.88	0.21	237.91	0.006938	0.82	1.51	13.98	0.58
T2	4566.35	50 Year	DonPhaseII_Final_Proposed	1.20	237.54	237.94	0.27	237.97	0.005449	0.87	2.40	15.74	0.54
T2	4566.35	10 Year	DonPhaseII_Final_Baseline	0.39	237.54	237.80	0.13	237.83	0.011128	0.77	0.60	8.28	0.68
T2	4566.35	25 Year	DonPhaseII_Final_Proposed	0.79	237.54	237.88	0.21	237.91	0.006938	0.82	1.51	13.98	0.58
T2	4566.35	5 Year	DonPhaseII_Final_Baseline	0.32	237.54	237.79	0.11	237.81	0.012365	0.74	0.47	7.06	0.70
T2	4566.35	10 Year	DonPhaseII_Final_Proposed	0.39	237.54	237.80	0.13	237.83	0.011128	0.77	0.60	8.28	0.68
T2	4566.35	2 Year	DonPhaseII_Final_Baseline	0.23	237.54	237.75	0.10	237.78	0.014637	0.72	0.32	3.46	0.74
T2	4566.35	5 Year	DonPhaseII_Final_Proposed	0.32	237.54	237.79	0.11	237.81	0.012365	0.74	0.47	7.06	0.70
T2	4566.35	2 Year	DonPhaseII_Final_Proposed	0.23	237.54	237.75	0.10	237.78	0.014637	0.72	0.32	3.46	0.74
T2	4500.35	Regional	DonPhaseII_Final_Baseline	22.33	237.01	238.94	1.67	239.03	0.001708	1.62	30.84	43.27	0.40
T2	4500.35	Regional	DonPhaseII_Final_Proposed	22.33	237.01	238.94	1.67	239.03	0.001708	1.62	30.84	43.27	0.40
T2	4500.35	350 Year	DonPhaseII_Final_Baseline	3.14	237.01	237.68	0.41	237.81	0.010123	1.55	2.08	6.10	0.77
T2													

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	4500.35	10 Year	DonPhaseII_Final_Baseline	0.39	237.01	237.34	0.19	237.36	0.004865	0.65	0.60	3.11	0.47
T2	4500.35	25 Year	DonPhaseII_Final_Proposed	0.79	237.01	237.43	0.25	237.47	0.006330	0.87	0.90	3.67	0.56
T2	4500.35	5 Year	DonPhaseII_Final_Baseline	0.32	237.01	237.32	0.18	237.34	0.004705	0.61	0.53	2.95	0.46
T2	4500.35	10 Year	DonPhaseII_Final_Proposed	0.39	237.01	237.34	0.19	237.36	0.004865	0.65	0.60	3.11	0.47
T2	4500.35	2 Year	DonPhaseII_Final_Baseline	0.23	237.01	237.28	0.16	237.30	0.004406	0.54	0.42	2.69	0.44
T2	4500.35	5 Year	DonPhaseII_Final_Proposed	0.32	237.01	237.32	0.18	237.34	0.004705	0.61	0.53	2.95	0.46
T2	4500.35	2 Year	DonPhaseII_Final_Proposed	0.23	237.01	237.28	0.16	237.30	0.004406	0.54	0.42	2.69	0.44
T2	4417.05	Regional	DonPhaseII_Final_Baseline	22.33	236.32	238.97	2.54	238.98	0.000125	0.59	96.18	55.04	0.12
T2	4417.05	Regional	DonPhaseII_Final_Proposed	22.33	236.32	238.97	2.54	238.98	0.000125	0.59	96.18	55.04	0.12
T2	4417.05	350 Year	DonPhaseII_Final_Baseline	3.14	236.32	236.85	0.41	236.94	0.010766	1.63	4.25	23.44	0.81
T2	4417.05	350 Year	DonPhaseII_Final_Proposed	3.14	236.32	236.85	0.41	236.94	0.010766	1.63	4.25	23.44	0.81
T2	4417.05	100 Year	DonPhaseII_Final_Baseline	1.50	236.32	236.72	0.28	236.80	0.013415	1.41	1.89	13.61	0.85
T2	4417.05	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	236.32	236.75	0.32	236.84	0.013765	1.54	2.37	14.86	0.88
T2	4417.05	50 Year	DonPhaseII_Final_Baseline	1.20	236.32	236.69	0.26	236.76	0.013262	1.31	1.54	12.70	0.83
T2	4417.05	100 Year	DonPhaseII_Final_Proposed	1.50	236.32	236.72	0.28	236.80	0.013415	1.41	1.89	13.61	0.85
T2	4417.05	25 Year	DonPhaseII_Final_Baseline	0.79	236.32	236.64	0.20	236.71	0.014545	1.19	0.94	10.89	0.84
T2	4417.05	50 Year	DonPhaseII_Final_Proposed	1.20	236.32	236.69	0.26	236.76	0.013262	1.31	1.54	12.70	0.83
T2	4417.05	10 Year	DonPhaseII_Final_Baseline	0.39	236.32	236.55	0.13	236.61	0.021802	1.09	0.38	3.77	0.95
T2	4417.05	25 Year	DonPhaseII_Final_Proposed	0.79	236.32	236.64	0.20	236.71	0.014545	1.19	0.94	10.89	0.84
T2	4417.05	5 Year	DonPhaseII_Final_Baseline	0.32	236.32	236.53	0.12	236.59	0.022915	1.04	0.32	3.38	0.96
T2	4417.05	10 Year	DonPhaseII_Final_Proposed	0.39	236.32	236.55	0.13	236.61	0.021802	1.09	0.38	3.77	0.95
T2	4417.05	2 Year	DonPhaseII_Final_Baseline	0.23	236.32	236.51	0.10	236.55	0.025798	0.97	0.24	2.39	0.99
T2	4417.05	5 Year	DonPhaseII_Final_Proposed	0.32	236.32	236.53	0.12	236.59	0.022915	1.04	0.32	3.38	0.96
T2	4417.05	2 Year	DonPhaseII_Final_Proposed	0.23	236.32	236.51	0.10	236.55	0.025798	0.97	0.24	2.39	0.99
T2	4390.47	Regional	DonPhaseII_Final_Baseline	22.33	235.88	238.97	3.00	238.98	0.000104	0.60	90.17	47.32	0.11
T2	4390.47	Regional	DonPhaseII_Final_Proposed	22.33	235.88	238.97	3.00	238.98	0.000104	0.60	90.17	47.32	0.11
T2	4390.47	350 Year	DonPhaseII_Final_Baseline	3.14	235.88	236.76	0.79	236.78	0.000878	0.72	7.41	14.35	0.26
T2	4390.47	350 Year	DonPhaseII_Final_Proposed	3.14	235.88	236.76	0.79	236.78	0.000878	0.72	7.41	14.35	0.26
T2	4390.47	100 Year	DonPhaseII_Final_Baseline	1.50	235.88	236.29	0.32	236.33	0.005256	0.97	2.16	9.13	0.55
T2	4390.47	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	235.88	236.31	0.34	236.37	0.007560	1.20	2.30	9.24	0.66
T2	4390.47	50 Year	DonPhaseII_Final_Baseline	1.20	235.88	236.21	0.25	236.27	0.009538	1.09	1.47	8.53	0.70
T2	4390.47	100 Year	DonPhaseII_Final_Proposed	1.50	235.88	236.29	0.32	236.33	0.005256	0.97	2.16	9.13	0.55
T2	4390.47	25 Year	DonPhaseII_Final_Baseline	0.79	235.88	236.15	0.19	236.20	0.011511	1.00	0.98	8.06	0.74
T2	4390.47	50 Year	DonPhaseII_Final_Proposed	1.20	235.88	236.21	0.25	236.27	0.009538	1.09	1.47	8.53	0.70
T2	4390.47	10 Year	DonPhaseII_Final_Baseline	0.39	235.88	236.08	0.12	236.12	0.014426	0.85	0.48	4.93	0.77
T2	4390.47	25 Year	DonPhaseII_Final_Proposed	0.79	235.88	236.15	0.19	236.20	0.011511	1.00	0.98	8.06	0.74
T2	4390.47	5 Year	DonPhaseII_Final_Baseline	0.32	235.88	236.06	0.12	236.10	0.014947	0.82	0.39	3.86	0.77
T2	4390.47	10 Year	DonPhaseII_Final_Proposed	0.39	235.88	236.08	0.12	236.12	0.014426	0.85	0.48	4.93	0.77
T2	4390.47	2 Year	DonPhaseII_Final_Baseline	0.23	235.88	236.06	0.11	236.08	0.007970	0.60	0.39	3.78	0.56
T2	4390.47	5 Year	DonPhaseII_Final_Proposed	0.32	235.88	236.06	0.12	236.10	0.014947	0.82	0.39	3.86	0.77
T2	4390.47	2 Year	DonPhaseII_Final_Proposed	0.23	235.88	236.06	0.11	236.08	0.007970	0.60	0.39	3.78	0.56
T2	4345.56	Regional	DonPhaseII_Final_Baseline	22.33	235.55	238.97	3.32	238.97	0.000043	0.42	120.20	59.61	0.07
T2	4345.56	Regional	DonPhaseII_Final_Proposed	22.33	235.55	238.97	3.32	238.97	0.000043	0.42	120.20	59.61	0.07
T2	4345.56	350 Year	DonPhaseII_Final_Baseline	3.14	235.55	236.75	1.10	236.76	0.000227	0.46	14.04	24.46	0.14
T2	4345.56	350 Year	DonPhaseII_Final_Proposed	3.14	235.55	236.75	1.10	236.76	0.000227	0.46	14.04	24.46	0.14
T2	4345.56	100 Year	DonPhaseII_Final_Baseline	1.50	235.55	235.93	0.28	236.01	0.010889	1.27	1.42	7.49	0.77
T2	4345.56	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	235.55	236.05	0.40	236.10	0.004859	1.08	2.54	10.78	0.54
T2	4345.56	50 Year	DonPhaseII_Final_Baseline	1.20	235.55	235.98	0.34	236.02	0.003604	0.83	1.89	9.15	0.45
T2	4345.56	100 Year	DonPhaseII_Final_Proposed	1.50	235.55	235.93	0.28	236.01	0.010889	1.27	1.42	7.49	0.77
T2	4345.56	25 Year	DonPhaseII_Final_Baseline	0.79	235.55	235.92	0.27	235.94	0.003362	0.69	1.36	7.26	0.42
T2	4345.56	50 Year	DonPhaseII_Final_Proposed	1.20	235.55	235.98	0.34	236.02	0.003604	0.83	1.89	9.15	0.45
T2	4345.56	10 Year	DonPhaseII_Final_Baseline	0.39	235.55	235.83	0.19	235.85	0.003148	0.52	0.81	5.57	0.39
T2	4345.56	25 Year	DonPhaseII_Final_Proposed	0.79	235.55	235.92	0.27	235.94	0.003362	0.69	1.36	7.26	0.42
T2	4345.56	5 Year	DonPhaseII_Final_Baseline	0.32	235.55	235.81	0.17	235.83	0.003108	0.48	0.70	5.21	0.38
T2	4345.56	10 Year	DonPhaseII_Final_Proposed	0.39	235.55	235.83	0.19	235.85	0.003148	0.52	0.81	5.57	0.39
T2	4345.56	2 Year	DonPhaseII_Final_Baseline	0.23	235.55	235.76	0.11	235.78	0.005682	0.50	0.46	4.24	0.48
T2	4345.56	5 Year	DonPhaseII_Final_Proposed	0.32	235.55	235.81	0.17	235.83	0.003108	0.48	0.70	5.21	0.38
T2	4345.56	2 Year	DonPhaseII_Final_Proposed	0.23	235.55	235.76	0.11	235.78	0.005682	0.50	0.46	4.24	0.48
T2	4288.98	Regional	DonPhaseII_Final_Baseline	22.33	235.21	238.97	3.65	238.97	0.000029	0.37	164.54	76.69	0.06
T2	4288.98	Regional	DonPhaseII_Final_Proposed	22.33	235.21	238.97	3.65	238.97	0.000029	0.37	164.54	76.69	0.06
T2	4288.98	350 Year	DonPhaseII_Final_Baseline	3.14	235.21	236.75	1.43	236.75	0.000059	0.28	27.06	40.24	0.07
T2	4288.98	350 Year	DonPhaseII_Final_Proposed	3.14	235.21	236.75	1.43	236.75	0.000059	0.28	27.06	40.24	0.07
T2	4288.98	100 Year	DonPhaseII_Final_Baseline	1.50	235.21	235.77	0.45	235.79	0.001710	0.70	3.04	9.00	0.33
T2	4288.98	1.3*100 Year	DonPhaseII_Final_Proposed	1.95	235.21	236.00	0.68	236.01	0.000680	0.57	5.46	13.07	0.22
T2	4288.98	50 Year	DonPhaseII_Final_Baseline	1.20	235.21	235.52	0.20	235.61	0.019921	1.39	1.04	6.71	0.98
T2	4288.98	100 Year	DonPhaseII_Final_Proposed	1.50	235.21	235.77	0.45	235.79	0.001710	0.70	3.04	9.00	0.33
T2	4288.98	25 Year	DonPhaseII_Final_Baseline	0.79	235.21	235.47	0.15	235.54	0.022742	1.23	0.72	6.03	1.00
T2	4288.98	50 Year	DonPhaseII_Final_Proposed	1.20	235.21	235.52	0.20	235.61	0.019921	1.39	1.04	6.71	0.98
T2	4288.98	10 Year	DonPhaseII_Final_Baseline	0.39	235.21	235.40	0.11	235.45	0.025243	1.06	0.40	3.76	1.01
T2	4288.98	25 Year	DonPhaseII_Final_Proposed	0.79	235.21	235.47	0.15	235.54	0.022742	1.23	0.72	6.03	1.00
T2	4288.98	5 Year	DonPhaseII_Final_Baseline	0.32	235.21	235.38	0.11	235.43	0.025976	1.02	0.34	3.46	1.01
T2	4288.98	10 Year	DonPhaseII_Final_Proposed	0.39	235.21	235.40	0.11	235.45	0.025243	1.06	0.40	3.76	1.01
T2	4288.98	2 Year	DonPhaseII_Final_Baseline	0.23	235.21	235.41	0.12	235.43	0.006736	0.57	0.45	3.98	0.52
T2	4288.98	5 Year	DonPhaseII_Final_Proposed	0.32	235.21	235.38	0.11	235.43	0.025976	1.02	0.34	3.46	1.01
T2	4288.98	2 Year	DonPhaseII_Final_Proposed	0.23	235.21	235.41	0.12	235.43	0.006736	0.57	0.45	3.98	0.52
T2	4251.72	Regional	DonPhaseII_Final_Baseline	26.90	234.86	238.97	4.07	238.97	0.000010	0.23	235.36	80.99	0.04
T2	4251.72	Regional	DonPhaseII_Final_Proposed	26.90	234.86	238.97	4.07	238.97	0.000010	0.23	235.36	80.99	0.04
T2	4251.72	350 Year	DonPhaseII_Final_Baseline	5.01	234.86	236.75	1.85	236.75	0.000008	0.12	75.27	62.17	0.03
T2	4251.72	350 Year	DonPhaseII_Final_Proposed	5.01	234.86	236.75	1.85	236.75	0.000008	0.12	75.27	62.17	0.03
T2	4251.72	100 Year	DonPhaseII_Final_Baseline	1.93	234.86	235.78	0.89	235.78	0.000028	0.14	23.09	44.26	0.05
T2	4251.72	1.3*100 Year	DonPhaseII_Final_Proposed	2.51	234.86	236.00	1.11	236.00	0.000018	0.13	33.19	46.96	0.04
T2	4251.72	50 Year	DonPhaseII_Final_Baseline	1.68	234.86	235.54	0.64	235.54	0.000408	0.43	7.83	30.60	0.17
T2	4251.72	100 Year	DonPhaseII_Final_Proposed	1.93	234.86	235.78	0.89	235.78	0.000028	0.14	23.09	44.26	0.05
T2	4251.72	25 Year	DonPhaseII_Final_Baseline	1.27	234.86	235.42	0.52	235.42	0.000505	0.41	5.88	27.49	0.18
T2	4251.72	50 Year	DonPhaseII_Final_Proposed	1.68	234.86	235.54	0.64	235.54	0.000408	0.43</			

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	4190.9	Regional	DonPhaseII_Final_Baseline	26.90	234.54	238.97	4.41	238.97	0.000023	0.36	195.62	100.02	0.06
T2	4190.9	Regional	DonPhaseII_Final_Proposed	26.90	234.54	238.97	4.41	238.97	0.000023	0.36	195.62	100.02	0.06
T2	4190.9	350 Year	DonPhaseII_Final_Baseline	5.01	234.54	236.75	2.19	236.75	0.000022	0.23	57.53	48.00	0.05
T2	4190.9	350 Year	DonPhaseII_Final_Proposed	5.01	234.54	236.75	2.19	236.75	0.000022	0.23	57.53	48.00	0.05
T2	4190.9	100 Year	DonPhaseII_Final_Baseline	1.93	234.54	235.78	1.22	235.78	0.000065	0.26	16.99	32.66	0.08
T2	4190.9	1.3*100 Year	DonPhaseII_Final_Proposed	2.51	234.54	236.00	1.44	236.00	0.000047	0.25	24.82	37.97	0.07
T2	4190.9	50 Year	DonPhaseII_Final_Baseline	1.68	234.54	235.52	0.97	235.53	0.000151	0.34	9.68	24.21	0.11
T2	4190.9	100 Year	DonPhaseII_Final_Proposed	1.93	234.54	235.78	1.22	235.78	0.000065	0.26	16.99	32.66	0.08
T2	4190.9	25 Year	DonPhaseII_Final_Baseline	1.27	234.54	235.40	0.84	235.41	0.000156	0.32	7.02	19.11	0.11
T2	4190.9	50 Year	DonPhaseII_Final_Proposed	1.68	234.54	235.52	0.97	235.53	0.000151	0.34	9.68	24.21	0.11
T2	4190.9	10 Year	DonPhaseII_Final_Baseline	0.93	234.54	235.25	0.70	235.26	0.000174	0.30	4.83	12.86	0.11
T2	4190.9	25 Year	DonPhaseII_Final_Proposed	1.27	234.54	235.40	0.84	235.41	0.000156	0.32	7.02	19.11	0.11
T2	4190.9	5 Year	DonPhaseII_Final_Baseline	0.59	234.54	235.10	0.54	235.10	0.000174	0.25	3.18	8.33	0.11
T2	4190.9	10 Year	DonPhaseII_Final_Proposed	0.93	234.54	235.25	0.70	235.26	0.000174	0.30	4.83	12.86	0.11
T2	4190.9	2 Year	DonPhaseII_Final_Baseline	0.21	234.54	234.84	0.28	234.84	0.000216	0.18	1.35	5.90	0.11
T2	4190.9	5 Year	DonPhaseII_Final_Proposed	0.59	234.54	235.10	0.54	235.10	0.000174	0.25	3.18	8.33	0.11
T2	4190.9	2 Year	DonPhaseII_Final_Proposed	0.21	234.54	234.84	0.28	234.84	0.000216	0.18	1.35	5.90	0.11
T2	4185.26	Regional	DonPhaseII_Final_Baseline	33.27	234.39	238.97	4.25	238.97	0.000046	0.35	180.23	83.77	0.05
T2	4185.26	Regional	DonPhaseII_Final_Proposed	33.27	234.39	238.97	4.25	238.97	0.000046	0.35	180.23	83.77	0.05
T2	4185.26	350 Year	DonPhaseII_Final_Baseline	8.18	234.39	236.69	2.13	236.73	0.000396	0.92	8.85	45.63	0.20
T2	4185.26	350 Year	DonPhaseII_Final_Proposed	8.18	234.39	236.69	2.13	236.73	0.000396	0.92	8.85	45.63	0.20
T2	4185.26	100 Year	DonPhaseII_Final_Baseline	3.37	234.39	235.75	1.19	235.77	0.000470	0.68	4.94	26.69	0.20
T2	4185.26	1.3*100 Year	DonPhaseII_Final_Proposed	4.38	234.39	235.96	1.40	235.99	0.000455	0.75	5.83	32.82	0.20
T2	4185.26	50 Year	DonPhaseII_Final_Baseline	2.92	234.39	235.49	0.93	235.52	0.000803	0.76	3.86	15.76	0.25
T2	4185.26	100 Year	DonPhaseII_Final_Proposed	3.37	234.39	235.75	1.19	235.77	0.000470	0.68	4.94	26.69	0.20
T2	4185.26	25 Year	DonPhaseII_Final_Baseline	2.39	234.39	235.37	0.81	235.40	0.000848	0.71	3.36	12.55	0.25
T2	4185.26	50 Year	DonPhaseII_Final_Proposed	2.92	234.39	235.49	0.93	235.52	0.000803	0.76	3.86	15.76	0.25
T2	4185.26	10 Year	DonPhaseII_Final_Baseline	1.80	234.39	235.23	0.67	235.25	0.000921	0.65	2.77	9.89	0.25
T2	4185.26	25 Year	DonPhaseII_Final_Proposed	2.39	234.39	235.37	0.81	235.40	0.000848	0.71	3.36	12.55	0.25
T2	4185.26	5 Year	DonPhaseII_Final_Baseline	1.25	234.39	235.08	0.51	235.09	0.001045	0.58	2.14	6.53	0.26
T2	4185.26	10 Year	DonPhaseII_Final_Proposed	1.80	234.39	235.23	0.67	235.25	0.000921	0.65	2.77	9.89	0.25
T2	4185.26	2 Year	DonPhaseII_Final_Baseline	0.53	234.39	234.82	0.27	234.84	0.001748	0.49	1.09	4.20	0.30
T2	4185.26	5 Year	DonPhaseII_Final_Proposed	1.25	234.39	235.08	0.51	235.09	0.001045	0.58	2.14	6.53	0.26
T2	4185.26	2 Year	DonPhaseII_Final_Proposed	0.53	234.39	234.82	0.27	234.84	0.001748	0.49	1.09	4.20	0.30
T2	4160.62		Culvert										
T2	4133.19	Regional	DonPhaseII_Final_Baseline	33.27	233.90	235.99	1.92	236.95	0.010962	4.34	7.67	63.93	1.00
T2	4133.19	Regional	DonPhaseII_Final_Proposed	33.27	233.90	235.99	1.92	236.95	0.010962	4.34	7.67	63.93	1.00
T2	4133.19	350 Year	DonPhaseII_Final_Baseline	8.18	233.90	234.83	0.75	235.21	0.014511	2.72	3.01	22.98	1.00
T2	4133.19	350 Year	DonPhaseII_Final_Proposed	8.18	233.90	234.83	0.75	235.21	0.014511	2.72	3.01	22.98	1.00
T2	4133.19	100 Year	DonPhaseII_Final_Baseline	3.37	233.90	234.49	0.42	234.70	0.016702	2.02	1.67	10.20	1.00
T2	4133.19	1.3*100 Year	DonPhaseII_Final_Proposed	4.38	233.90	234.57	0.50	234.82	0.016163	2.21	1.98	11.87	1.00
T2	4133.19	50 Year	DonPhaseII_Final_Baseline	2.92	233.90	234.46	0.38	234.64	0.016724	1.92	1.52	9.28	0.99
T2	4133.19	100 Year	DonPhaseII_Final_Proposed	3.37	233.90	234.49	0.42	234.70	0.016702	2.02	1.67	10.20	1.00
T2	4133.19	25 Year	DonPhaseII_Final_Baseline	2.39	233.90	234.41	0.33	234.57	0.017138	1.80	1.33	6.93	0.99
T2	4133.19	50 Year	DonPhaseII_Final_Proposed	2.92	233.90	234.46	0.38	234.64	0.016724	1.92	1.52	9.28	0.99
T2	4133.19	10 Year	DonPhaseII_Final_Baseline	1.80	233.90	234.35	0.28	234.49	0.017712	1.64	1.10	5.30	1.00
T2	4133.19	25 Year	DonPhaseII_Final_Proposed	2.39	233.90	234.41	0.33	234.57	0.017138	1.80	1.33	6.93	0.99
T2	4133.19	5 Year	DonPhaseII_Final_Baseline	1.25	233.90	234.29	0.22	234.40	0.018053	1.46	0.86	4.33	1.00
T2	4133.19	10 Year	DonPhaseII_Final_Proposed	1.80	233.90	234.35	0.28	234.49	0.017712	1.64	1.10	5.30	1.00
T2	4133.19	2 Year	DonPhaseII_Final_Baseline	0.53	233.90	234.18	0.15	234.25	0.022779	1.18	0.45	3.06	0.99
T2	4133.19	5 Year	DonPhaseII_Final_Proposed	1.25	233.90	234.29	0.22	234.40	0.018053	1.46	0.86	4.33	1.00
T2	4133.19	2 Year	DonPhaseII_Final_Proposed	0.53	233.90	234.18	0.15	234.25	0.022779	1.18	0.45	3.06	0.99
T2	4125.45	Regional	DonPhaseII_Final_Baseline	33.27	233.47	235.08	1.56	235.51	0.011853	4.17	15.24	60.36	1.07
T2	4125.45	Regional	DonPhaseII_Final_Proposed	33.27	233.47	235.08	1.56	235.51	0.011853	4.17	15.24	60.36	1.07
T2	4125.45	350 Year	DonPhaseII_Final_Baseline	8.18	233.47	234.31	0.79	234.55	0.012970	2.77	4.70	27.67	1.00
T2	4125.45	350 Year	DonPhaseII_Final_Proposed	8.18	233.47	234.31	0.79	234.55	0.012970	2.77	4.70	27.67	1.00
T2	4125.45	100 Year	DonPhaseII_Final_Baseline	3.37	233.47	234.04	0.53	234.20	0.012751	2.09	2.41	7.58	0.92
T2	4125.45	1.3*100 Year	DonPhaseII_Final_Proposed	4.38	233.47	234.11	0.59	234.29	0.012980	2.29	2.93	8.12	0.95
T2	4125.45	50 Year	DonPhaseII_Final_Baseline	2.92	233.47	234.00	0.49	234.16	0.013345	2.04	2.12	7.21	0.93
T2	4125.45	100 Year	DonPhaseII_Final_Proposed	3.37	233.47	234.04	0.53	234.20	0.012751	2.09	2.41	7.58	0.92
T2	4125.45	25 Year	DonPhaseII_Final_Baseline	2.39	233.47	233.96	0.44	234.10	0.013546	1.92	1.80	6.73	0.92
T2	4125.45	50 Year	DonPhaseII_Final_Proposed	2.92	233.47	234.00	0.49	234.16	0.013345	2.04	2.12	7.21	0.93
T2	4125.45	10 Year	DonPhaseII_Final_Baseline	1.80	233.47	233.90	0.38	234.02	0.013816	1.77	1.43	6.13	0.91
T2	4125.45	25 Year	DonPhaseII_Final_Proposed	2.39	233.47	233.96	0.44	234.10	0.013546	1.92	1.80	6.73	0.92
T2	4125.45	5 Year	DonPhaseII_Final_Baseline	1.25	233.47	233.83	0.31	233.94	0.015492	1.63	1.02	5.18	0.93
T2	4125.45	10 Year	DonPhaseII_Final_Proposed	1.80	233.47	233.90	0.38	234.02	0.013816	1.77	1.43	6.13	0.91
T2	4125.45	2 Year	DonPhaseII_Final_Baseline	0.53	233.47	233.71	0.19	233.78	0.019092	1.29	0.48	3.61	0.95
T2	4125.45	5 Year	DonPhaseII_Final_Proposed	1.25	233.47	233.83	0.31	233.94	0.015492	1.63	1.02	5.18	0.93
T2	4125.45	2 Year	DonPhaseII_Final_Proposed	0.53	233.47	233.71	0.19	233.78	0.019092	1.29	0.48	3.61	0.95
T2	4102.1	Regional	DonPhaseII_Final_Baseline	33.27	232.64	234.45	1.73	234.91	0.010427	4.17	14.39	107.33	1.01
T2	4102.1	Regional	DonPhaseII_Final_Proposed	33.27	232.64	234.45	1.73	234.91	0.010427	4.17	14.39	107.33	1.01
T2	4102.1	350 Year	DonPhaseII_Final_Baseline	8.18	232.64	233.67	0.96	233.93	0.009910	2.74	4.80	97.62	0.89
T2	4102.1	350 Year	DonPhaseII_Final_Proposed	8.18	232.64	233.67	0.96	233.93	0.009910	2.74	4.80	97.62	0.89
T2	4102.1	100 Year	DonPhaseII_Final_Baseline	3.37	232.64	233.32	0.61	233.52	0.011994	2.22	2.10	92.14	0.91
T2	4102.1	1.3*100 Year	DonPhaseII_Final_Proposed	4.38	232.64	233.41	0.70	233.63	0.011415	2.38	2.67	93.57	0.91
T2	4102.1	50 Year	DonPhaseII_Final_Baseline	2.92	232.64	233.28	0.56	233.47	0.012313	2.14	1.85	91.49	0.91
T2	4102.1	100 Year	DonPhaseII_Final_Proposed	3.37	232.64	233.32	0.61	233.52	0.011994	2.22	2.10	92.14	0.91
T2	4102.1	25 Year	DonPhaseII_Final_Baseline	2.39	232.64	233.21	0.50	233.39	0.013106	2.04	1.53	90.59	0.92
T2	4102.1	50 Year	DonPhaseII_Final_Proposed	2.92	232.64	233.28	0.56	233.47	0.012313	2.14	1.85	91.49	0.91
T2	4102.1	10 Year	DonPhaseII_Final_Baseline	1.80	232.64	233.14	0.42	233.30	0.014200	1.90	1.19	89.50	0.93
T2	4102.1	25 Year	DonPhaseII_Final_Proposed	2.39	232.64	233.21	0.50	233.39	0.013106	2.04	1.53	90.59	0.92
T2	4102.1	5 Year	DonPhaseII_Final_Baseline	1.25	232.64	233.05	0.34	233.19	0.015553	1.71	0.87	88.43	0.94
T2	4102.1	10 Year	DonPhaseII_Final_Proposed	1.80	232.64	233.14	0.42	233.30	0.014200	1.90	1.19	89.50	0.93
T2	4102.1	2 Year	DonPhaseII_Final_Baseline	0.53	232.64	232.92	0.21	233.00	0.016581	1.27	0.45	86.91	0.90
T2	4102.1	5 Year	DonPhaseII_Final_Proposed	1.25	232.64	233.05	0.34	233.19	0.015553	1.71	0.87	88.43	0.94
T2	4102.1	2 Year	DonPhaseII_Final_Proposed	0.53	232.64</								

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	4080.9	100 Year	DonPhaseII_Final_Baseline	3.37	232.19	232.94	0.61	233.14	0.011997	2.18	2.11	40.66	0.89
T2	4080.9	1.3*100 Year	DonPhaseII_Final_Proposed	4.38	232.19	233.04	0.71	233.24	0.010711	2.28	2.77	42.50	0.87
T2	4080.9	50 Year	DonPhaseII_Final_Baseline	2.92	232.19	232.89	0.56	233.08	0.012491	2.11	1.84	39.74	0.90
T2	4080.9	100 Year	DonPhaseII_Final_Proposed	3.37	232.19	232.94	0.61	233.14	0.011997	2.18	2.11	40.66	0.89
T2	4080.9	25 Year	DonPhaseII_Final_Baseline	2.39	232.19	232.84	0.51	233.01	0.012569	1.98	1.56	38.90	0.89
T2	4080.9	50 Year	DonPhaseII_Final_Proposed	2.92	232.19	232.89	0.56	233.08	0.012491	2.11	1.84	39.74	0.90
T2	4080.9	10 Year	DonPhaseII_Final_Baseline	1.80	232.19	232.75	0.42	232.92	0.014446	1.88	1.17	37.54	0.92
T2	4080.9	25 Year	DonPhaseII_Final_Proposed	2.39	232.19	232.84	0.51	233.01	0.012569	1.98	1.56	38.90	0.89
T2	4080.9	5 Year	DonPhaseII_Final_Baseline	1.25	232.19	232.66	0.33	232.80	0.017458	1.75	0.81	35.90	0.97
T2	4080.9	10 Year	DonPhaseII_Final_Proposed	1.80	232.19	232.75	0.42	232.92	0.014446	1.88	1.17	37.54	0.92
T2	4080.9	2 Year	DonPhaseII_Final_Baseline	0.53	232.19	232.51	0.20	232.61	0.020959	1.38	0.41	33.99	0.98
T2	4080.9	5 Year	DonPhaseII_Final_Proposed	1.25	232.19	232.66	0.33	232.80	0.017458	1.75	0.81	35.90	0.97
T2	4080.9	2 Year	DonPhaseII_Final_Proposed	0.53	232.19	232.51	0.20	232.61	0.020959	1.38	0.41	33.99	0.98
T2	4047.42	Regional	DonPhaseII_Final_Baseline	33.27	231.55	234.67	3.02	234.68	0.000017	0.24	158.61	73.34	0.04
T2	4047.42	Regional	DonPhaseII_Final_Proposed	33.27	231.55	234.67	3.02	234.68	0.000017	0.24	158.61	73.34	0.04
T2	4047.42	350 Year	DonPhaseII_Final_Baseline	8.18	231.55	232.69	1.04	232.99	0.009432	2.81	4.44	41.86	0.88
T2	4047.42	350 Year	DonPhaseII_Final_Proposed	8.18	231.55	232.69	1.04	232.99	0.009432	2.81	4.44	41.86	0.88
T2	4047.42	100 Year	DonPhaseII_Final_Baseline	3.37	231.55	232.26	0.61	232.52	0.014167	2.41	1.74	32.49	0.99
T2	4047.42	1.3*100 Year	DonPhaseII_Final_Proposed	4.38	231.55	232.40	0.75	232.66	0.010768	2.42	2.45	35.97	0.89
T2	4047.42	50 Year	DonPhaseII_Final_Baseline	2.92	231.55	232.23	0.57	232.45	0.013205	2.24	1.60	31.88	0.94
T2	4047.42	100 Year	DonPhaseII_Final_Proposed	3.37	231.55	232.26	0.61	232.52	0.014167	2.41	1.74	32.49	0.99
T2	4047.42	25 Year	DonPhaseII_Final_Baseline	2.39	231.55	232.16	0.51	232.37	0.013554	2.10	1.36	31.00	0.94
T2	4047.42	50 Year	DonPhaseII_Final_Proposed	2.92	231.55	232.23	0.57	232.45	0.013205	2.24	1.60	31.88	0.94
T2	4047.42	10 Year	DonPhaseII_Final_Baseline	1.80	231.55	232.08	0.43	232.26	0.014799	1.94	1.07	29.88	0.95
T2	4047.42	25 Year	DonPhaseII_Final_Proposed	2.39	231.55	232.16	0.51	232.37	0.013554	2.10	1.36	31.00	0.94
T2	4047.42	5 Year	DonPhaseII_Final_Baseline	1.25	231.55	231.99	0.34	232.14	0.016235	1.75	0.79	28.72	0.96
T2	4047.42	10 Year	DonPhaseII_Final_Proposed	1.80	231.55	232.08	0.43	232.26	0.014799	1.94	1.07	29.88	0.95
T2	4047.42	2 Year	DonPhaseII_Final_Baseline	0.53	231.55	231.90	0.25	231.95	0.009008	1.05	0.54	27.49	0.68
T2	4047.42	5 Year	DonPhaseII_Final_Proposed	1.25	231.55	231.99	0.34	232.14	0.016235	1.75	0.79	28.72	0.96
T2	4047.42	2 Year	DonPhaseII_Final_Proposed	0.53	231.55	231.90	0.25	231.95	0.009008	1.05	0.54	27.49	0.68
T2	4011.49	Regional	DonPhaseII_Final_Baseline	33.27	231.19	234.67	3.41	234.67	0.000123	0.71	107.60	77.77	0.12
T2	4011.49	Regional	DonPhaseII_Final_Proposed	33.27	231.19	234.67	3.41	234.67	0.000123	0.71	107.60	77.77	0.12
T2	4011.49	350 Year	DonPhaseII_Final_Baseline	8.18	231.19	232.38	1.12	232.39	0.000459	0.66	19.98	24.48	0.20
T2	4011.49	350 Year	DonPhaseII_Final_Proposed	8.18	231.19	232.38	1.12	232.39	0.000459	0.66	19.98	24.48	0.20
T2	4011.49	100 Year	DonPhaseII_Final_Baseline	3.37	231.19	231.79	0.53	231.81	0.002246	0.88	6.53	21.07	0.39
T2	4011.49	1.3*100 Year	DonPhaseII_Final_Proposed	4.38	231.19	231.91	0.66	231.93	0.001355	0.79	9.25	21.93	0.31
T2	4011.49	50 Year	DonPhaseII_Final_Baseline	2.92	231.19	231.72	0.47	231.75	0.003279	0.98	5.19	20.63	0.46
T2	4011.49	100 Year	DonPhaseII_Final_Proposed	3.37	231.19	231.79	0.53	231.81	0.002246	0.88	6.53	21.07	0.39
T2	4011.49	25 Year	DonPhaseII_Final_Baseline	2.39	231.19	231.64	0.38	231.69	0.006656	1.22	3.46	19.72	0.63
T2	4011.49	50 Year	DonPhaseII_Final_Proposed	2.92	231.19	231.72	0.47	231.75	0.003279	0.98	5.19	20.63	0.46
T2	4011.49	10 Year	DonPhaseII_Final_Baseline	1.80	231.19	231.58	0.32	231.64	0.009619	1.31	2.35	18.79	0.74
T2	4011.49	25 Year	DonPhaseII_Final_Proposed	2.39	231.19	231.64	0.38	231.69	0.006656	1.22	3.46	19.72	0.63
T2	4011.49	5 Year	DonPhaseII_Final_Baseline	1.25	231.19	231.54	0.28	231.60	0.009460	1.20	1.65	16.86	0.72
T2	4011.49	10 Year	DonPhaseII_Final_Proposed	1.80	231.19	231.58	0.32	231.64	0.009619	1.31	2.35	18.79	0.74
T2	4011.49	2 Year	DonPhaseII_Final_Baseline	0.53	231.19	231.41	0.15	231.48	0.021864	1.18	0.46	3.68	0.98
T2	4011.49	5 Year	DonPhaseII_Final_Proposed	1.25	231.19	231.54	0.28	231.60	0.009460	1.20	1.65	16.86	0.72
T2	4011.49	2 Year	DonPhaseII_Final_Proposed	0.53	231.19	231.41	0.15	231.48	0.021864	1.18	0.46	3.68	0.98
T2	4004.54	Regional	DonPhaseII_Final_Baseline	35.01	231.04	234.63	3.52	234.66	0.000351	1.23	64.19	71.05	0.21
T2	4004.54	Regional	DonPhaseII_Final_Proposed	35.01	231.04	234.63	3.52	234.66	0.000351	1.23	64.19	71.05	0.21
T2	4004.54	350 Year	DonPhaseII_Final_Baseline	8.74	231.04	232.31	1.20	232.37	0.001630	1.29	9.08	13.04	0.38
T2	4004.54	350 Year	DonPhaseII_Final_Proposed	8.74	231.04	232.31	1.20	232.37	0.001630	1.29	9.08	13.04	0.38
T2	4004.54	100 Year	DonPhaseII_Final_Baseline	3.49	231.04	231.73	0.62	231.78	0.003021	1.14	4.00	8.87	0.46
T2	4004.54	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	231.04	231.85	0.74	231.91	0.002672	1.20	4.96	9.56	0.45
T2	4004.54	50 Year	DonPhaseII_Final_Baseline	3.00	231.04	231.68	0.57	231.72	0.003198	1.10	3.54	8.53	0.47
T2	4004.54	100 Year	DonPhaseII_Final_Proposed	3.49	231.04	231.73	0.62	231.78	0.003021	1.14	4.00	8.87	0.46
T2	4004.54	25 Year	DonPhaseII_Final_Baseline	2.44	231.04	231.61	0.50	231.65	0.003404	1.04	3.03	8.14	0.47
T2	4004.54	50 Year	DonPhaseII_Final_Proposed	3.00	231.04	231.68	0.57	231.72	0.003198	1.10	3.54	8.53	0.47
T2	4004.54	10 Year	DonPhaseII_Final_Baseline	1.84	231.04	231.53	0.42	231.57	0.003608	0.96	2.46	7.69	0.47
T2	4004.54	25 Year	DonPhaseII_Final_Proposed	2.44	231.04	231.61	0.50	231.65	0.003404	1.04	3.03	8.14	0.47
T2	4004.54	5 Year	DonPhaseII_Final_Baseline	1.29	231.04	231.46	0.35	231.49	0.003632	0.85	1.94	7.23	0.46
T2	4004.54	10 Year	DonPhaseII_Final_Proposed	1.84	231.04	231.53	0.42	231.57	0.003608	0.96	2.46	7.69	0.47
T2	4004.54	2 Year	DonPhaseII_Final_Baseline	0.56	231.04	231.33	0.22	231.35	0.003876	0.65	1.08	6.31	0.44
T2	4004.54	5 Year	DonPhaseII_Final_Proposed	1.29	231.04	231.46	0.35	231.49	0.003632	0.85	1.94	7.23	0.46
T2	4004.54	2 Year	DonPhaseII_Final_Proposed	0.56	231.04	231.33	0.22	231.35	0.003876	0.65	1.08	6.31	0.44
T2	3988.69		Culvert										
T2	3967.29	Regional	DonPhaseII_Final_Baseline	35.01	231.02	232.56	1.46	233.21	0.011355	3.91	12.14	11.77	1.03
T2	3967.29	Regional	DonPhaseII_Final_Proposed	35.01	231.02	232.56	1.46	233.21	0.011355	3.91	12.14	11.77	1.03
T2	3967.29	350 Year	DonPhaseII_Final_Baseline	8.74	231.02	231.79	0.70	232.02	0.009904	2.23	5.05	8.91	0.85
T2	3967.29	350 Year	DonPhaseII_Final_Proposed	8.74	231.02	231.79	0.70	232.02	0.009904	2.23	5.05	8.91	0.85
T2	3967.29	100 Year	DonPhaseII_Final_Baseline	3.49	231.02	231.52	0.42	231.63	0.009159	1.54	2.74	7.93	0.76
T2	3967.29	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	231.02	231.55	0.46	231.71	0.011841	1.84	3.01	8.07	0.87
T2	3967.29	50 Year	DonPhaseII_Final_Baseline	3.00	231.02	231.50	0.41	231.59	0.007901	1.39	2.60	7.86	0.70
T2	3967.29	100 Year	DonPhaseII_Final_Proposed	3.49	231.02	231.52	0.42	231.63	0.009159	1.54	2.74	7.93	0.76
T2	3967.29	25 Year	DonPhaseII_Final_Baseline	2.44	231.02	231.48	0.39	231.55	0.006096	1.18	2.46	7.78	0.61
T2	3967.29	50 Year	DonPhaseII_Final_Proposed	3.00	231.02	231.50	0.41	231.59	0.007901	1.39	2.60	7.86	0.70
T2	3967.29	10 Year	DonPhaseII_Final_Baseline	1.84	231.02	231.45	0.35	231.50	0.004893	0.99	2.18	7.64	0.54
T2	3967.29	25 Year	DonPhaseII_Final_Proposed	2.44	231.02	231.48	0.39	231.55	0.006096	1.18	2.46	7.78	0.61
T2	3967.29	5 Year	DonPhaseII_Final_Baseline	1.29	231.02	231.41	0.31	231.44	0.003625	0.79	1.89	7.48	0.45
T2	3967.29	10 Year	DonPhaseII_Final_Proposed	1.84	231.02	231.45	0.35	231.50	0.004893	0.99	2.18	7.64	0.54
T2	3967.29	2 Year	DonPhaseII_Final_Baseline	0.56	231.02	231.32	0.22	231.33	0.002334	0.50	1.22	6.82	0.34
T2	3967.29	5 Year	DonPhaseII_Final_Proposed	1.29	231.02	231.41	0.31	231.44	0.003625	0.79	1.89	7.48	0.45
T2	3967.29	2 Year	DonPhaseII_Final_Proposed	0.56	231.02	231.32	0.22	231.33	0.002334	0.50	1.22	6.82	0.34
T2	3954.97	Regional	DonPhaseII_Final_Baseline	35.01	231.03	232.41	1.35	232.48	0.002911	1.88	37.71	49.13	0.52
T2	3954.97	Regional	DonPhaseII_Final_Proposed	35.01	231.03	232.41	1.35	232.48	0.002911	1.88	37.71	49.13	0.52
T2	3954.97	350 Year	DonPhaseII_Final_Baseline	8.74	231.03	231.85	0.79	231.87	0.001671	1.00	16.53	28.83	0.36
T2	3954.97	350 Year	Don										

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	3954.97	50 Year	DonPhaseII_Final_Proposed	3.00	231.03	231.44	0.38	231.48	0.006053	1.17	5.31	25.47	0.60
T2	3954.97	10 Year	DonPhaseII_Final_Baseline	1.84	231.03	231.41	0.35	231.43	0.003896	0.88	4.41	23.75	0.48
T2	3954.97	25 Year	DonPhaseII_Final_Proposed	2.44	231.03	231.45	0.39	231.47	0.003865	0.94	5.38	25.66	0.48
T2	3954.97	5 Year	DonPhaseII_Final_Baseline	1.29	231.03	231.37	0.31	231.39	0.003286	0.76	3.63	22.66	0.43
T2	3954.97	10 Year	DonPhaseII_Final_Proposed	1.84	231.03	231.41	0.35	231.43	0.003896	0.88	4.41	23.75	0.48
T2	3954.97	2 Year	DonPhaseII_Final_Baseline	0.56	231.03	231.27	0.21	231.29	0.004939	0.70	1.52	14.92	0.49
T2	3954.97	5 Year	DonPhaseII_Final_Proposed	1.29	231.03	231.37	0.31	231.39	0.003286	0.76	3.63	22.66	0.43
T2	3954.97	2 Year	DonPhaseII_Final_Proposed	0.56	231.03	231.27	0.21	231.29	0.004939	0.70	1.52	14.92	0.49
T2	3900.02	Regional	DonPhaseII_Final_Baseline	35.01	230.72	232.36	1.61	232.40	0.000887	1.17	47.67	41.99	0.29
T2	3900.02	Regional	DonPhaseII_Final_Proposed	35.01	230.72	232.36	1.61	232.40	0.000887	1.17	47.67	41.99	0.29
T2	3900.02	350 Year	DonPhaseII_Final_Baseline	8.74	230.72	231.83	1.08	231.84	0.000313	0.53	26.48	38.02	0.16
T2	3900.02	350 Year	DonPhaseII_Final_Proposed	8.74	230.72	231.83	1.08	231.84	0.000313	0.53	26.48	38.02	0.16
T2	3900.02	100 Year	DonPhaseII_Final_Baseline	3.49	230.72	231.25	0.50	231.27	0.002722	0.94	7.07	27.40	0.42
T2	3900.02	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	230.72	231.39	0.64	231.40	0.001139	0.71	11.01	29.86	0.29
T2	3900.02	50 Year	DonPhaseII_Final_Baseline	3.00	230.72	231.18	0.43	231.21	0.004831	1.13	5.20	25.12	0.55
T2	3900.02	100 Year	DonPhaseII_Final_Proposed	3.49	230.72	231.25	0.50	231.27	0.002722	0.94	7.07	27.40	0.42
T2	3900.02	25 Year	DonPhaseII_Final_Baseline	2.44	230.72	231.09	0.34	231.16	0.012480	1.56	3.18	21.59	0.85
T2	3900.02	50 Year	DonPhaseII_Final_Proposed	3.00	230.72	231.18	0.43	231.21	0.004831	1.13	5.20	25.12	0.55
T2	3900.02	10 Year	DonPhaseII_Final_Baseline	1.84	230.72	231.07	0.32	231.12	0.011359	1.42	2.66	20.65	0.80
T2	3900.02	25 Year	DonPhaseII_Final_Proposed	2.44	230.72	231.09	0.34	231.16	0.012480	1.56	3.18	21.59	0.85
T2	3900.02	5 Year	DonPhaseII_Final_Baseline	1.29	230.72	231.01	0.26	231.08	0.016855	1.50	1.61	12.09	0.94
T2	3900.02	10 Year	DonPhaseII_Final_Proposed	1.84	230.72	231.07	0.32	231.12	0.011359	1.42	2.66	20.65	0.80
T2	3900.02	2 Year	DonPhaseII_Final_Baseline	0.56	230.72	230.96	0.21	230.99	0.007283	0.86	1.16	8.75	0.60
T2	3900.02	5 Year	DonPhaseII_Final_Proposed	1.29	230.72	231.01	0.26	231.08	0.016855	1.50	1.61	12.09	0.94
T2	3900.02	2 Year	DonPhaseII_Final_Proposed	0.56	230.72	230.96	0.21	230.99	0.007283	0.86	1.16	8.75	0.60
T2	3842.41	Regional	DonPhaseII_Final_Baseline	35.01	230.26	232.19	1.80	232.31	0.002696	2.18	33.43	28.07	0.52
T2	3842.41	Regional	DonPhaseII_Final_Proposed	35.01	230.26	232.19	1.80	232.31	0.002696	2.18	33.43	28.07	0.52
T2	3842.41	350 Year	DonPhaseII_Final_Baseline	8.74	230.26	231.81	1.42	231.82	0.000392	0.71	24.49	22.02	0.19
T2	3842.41	350 Year	DonPhaseII_Final_Proposed	8.74	230.26	231.81	1.42	231.82	0.000392	0.71	24.49	22.02	0.19
T2	3842.41	100 Year	DonPhaseII_Final_Baseline	3.49	230.26	231.21	0.81	231.22	0.000514	0.56	11.95	19.65	0.20
T2	3842.41	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	230.26	231.36	0.96	231.37	0.000453	0.59	14.93	20.28	0.19
T2	3842.41	50 Year	DonPhaseII_Final_Baseline	3.00	230.26	231.13	0.74	231.14	0.000564	0.55	10.43	19.31	0.20
T2	3842.41	100 Year	DonPhaseII_Final_Proposed	3.49	230.26	231.21	0.81	231.22	0.000514	0.56	11.95	19.65	0.20
T2	3842.41	25 Year	DonPhaseII_Final_Baseline	2.44	230.26	231.03	0.64	231.04	0.000663	0.54	8.54	18.83	0.22
T2	3842.41	50 Year	DonPhaseII_Final_Proposed	3.00	230.26	231.13	0.74	231.14	0.000564	0.55	10.43	19.31	0.20
T2	3842.41	10 Year	DonPhaseII_Final_Baseline	1.84	230.26	230.91	0.52	230.92	0.000849	0.54	6.39	18.00	0.24
T2	3842.41	25 Year	DonPhaseII_Final_Proposed	2.44	230.26	231.03	0.64	231.04	0.000663	0.54	8.54	18.83	0.22
T2	3842.41	5 Year	DonPhaseII_Final_Baseline	1.29	230.26	230.79	0.40	230.80	0.001293	0.55	4.20	17.09	0.28
T2	3842.41	10 Year	DonPhaseII_Final_Proposed	1.84	230.26	230.91	0.52	230.92	0.000849	0.54	6.39	18.00	0.24
T2	3842.41	2 Year	DonPhaseII_Final_Baseline	0.56	230.26	230.57	0.18	230.60	0.006476	0.73	1.01	10.96	0.55
T2	3842.41	5 Year	DonPhaseII_Final_Proposed	1.29	230.26	230.79	0.40	230.80	0.001293	0.55	4.20	17.09	0.28
T2	3842.41	2 Year	DonPhaseII_Final_Proposed	0.56	230.26	230.57	0.18	230.60	0.006476	0.73	1.01	10.96	0.55
T2	3819.38	Regional	DonPhaseII_Final_Baseline	35.01	229.93	231.89	1.71	232.20	0.006995	3.21	22.14	32.76	0.78
T2	3819.38	Regional	DonPhaseII_Final_Proposed	35.01	229.93	231.89	1.71	232.20	0.006995	3.21	22.14	32.76	0.78
T2	3819.38	350 Year	DonPhaseII_Final_Baseline	8.74	229.93	231.78	1.59	231.81	0.000664	0.94	18.47	30.87	0.24
T2	3819.38	350 Year	DonPhaseII_Final_Proposed	8.74	229.93	231.78	1.59	231.81	0.000664	0.94	18.47	30.87	0.24
T2	3819.38	100 Year	DonPhaseII_Final_Baseline	3.49	229.93	231.14	0.96	231.19	0.001486	1.00	4.28	9.66	0.33
T2	3819.38	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	229.93	231.29	1.11	231.34	0.001370	1.06	6.16	17.09	0.32
T2	3819.38	50 Year	DonPhaseII_Final_Baseline	3.00	229.93	231.07	0.88	231.11	0.001493	0.95	3.63	7.54	0.32
T2	3819.38	100 Year	DonPhaseII_Final_Proposed	3.49	229.93	231.14	0.96	231.19	0.001486	1.00	4.28	9.66	0.33
T2	3819.38	25 Year	DonPhaseII_Final_Baseline	2.44	229.93	230.98	0.79	231.01	0.001467	0.88	3.07	5.15	0.32
T2	3819.38	50 Year	DonPhaseII_Final_Proposed	3.00	229.93	231.07	0.88	231.11	0.001493	0.95	3.63	7.54	0.32
T2	3819.38	10 Year	DonPhaseII_Final_Baseline	1.84	229.93	230.86	0.68	230.89	0.001410	0.78	2.53	4.70	0.30
T2	3819.38	25 Year	DonPhaseII_Final_Proposed	2.44	229.93	230.98	0.79	231.01	0.001467	0.88	3.07	5.15	0.32
T2	3819.38	5 Year	DonPhaseII_Final_Baseline	1.29	229.93	230.74	0.56	230.77	0.001348	0.67	2.00	4.19	0.29
T2	3819.38	10 Year	DonPhaseII_Final_Proposed	1.84	229.93	230.86	0.68	230.89	0.001410	0.78	2.53	4.70	0.30
T2	3819.38	2 Year	DonPhaseII_Final_Baseline	0.56	229.93	230.53	0.36	230.54	0.001185	0.47	1.19	3.33	0.25
T2	3819.38	5 Year	DonPhaseII_Final_Proposed	1.29	229.93	230.74	0.56	230.77	0.001348	0.67	2.00	4.19	0.29
T2	3819.38	2 Year	DonPhaseII_Final_Proposed	0.56	229.93	230.53	0.36	230.54	0.001185	0.47	1.19	3.33	0.25
T2	3800	Regional	DonPhaseII_Final_Baseline	35.01	230.01	232.00	1.78	232.03	0.000860	1.14	51.57	42.03	0.27
T2	3800	Regional	DonPhaseII_Final_Proposed	35.01	230.01	232.00	1.78	232.03	0.000860	1.14	51.57	42.03	0.27
T2	3800	350 Year	DonPhaseII_Final_Baseline	8.74	230.01	231.31	1.10	231.73	0.013074	3.22	4.16	35.03	0.98
T2	3800	350 Year	DonPhaseII_Final_Proposed	8.74	230.01	231.31	1.10	231.73	0.013074	3.22	4.16	35.03	0.98
T2	3800	100 Year	DonPhaseII_Final_Baseline	3.49	230.01	230.83	0.61	231.10	0.017138	2.50	1.87	29.99	1.02
T2	3800	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	230.01	230.94	0.72	231.25	0.015967	2.70	2.33	31.35	1.01
T2	3800	50 Year	DonPhaseII_Final_Baseline	3.00	230.01	230.77	0.55	231.02	0.018138	2.40	1.64	26.80	1.03
T2	3800	100 Year	DonPhaseII_Final_Proposed	3.49	230.01	230.83	0.61	231.10	0.017138	2.50	1.87	29.99	1.02
T2	3800	25 Year	DonPhaseII_Final_Baseline	2.44	230.01	230.70	0.48	230.93	0.018769	2.24	1.41	23.36	1.03
T2	3800	50 Year	DonPhaseII_Final_Proposed	3.00	230.01	230.77	0.55	231.02	0.018138	2.40	1.64	26.80	1.03
T2	3800	10 Year	DonPhaseII_Final_Baseline	1.84	230.01	230.62	0.43	230.81	0.018138	2.05	1.14	16.26	0.99
T2	3800	25 Year	DonPhaseII_Final_Proposed	2.44	230.01	230.70	0.48	230.93	0.018769	2.24	1.41	23.36	1.03
T2	3800	5 Year	DonPhaseII_Final_Baseline	1.29	230.01	230.53	0.37	230.69	0.018353	1.86	0.86	13.04	0.98
T2	3800	10 Year	DonPhaseII_Final_Proposed	1.84	230.01	230.62	0.43	230.81	0.018138	2.05	1.14	16.26	0.99
T2	3800	2 Year	DonPhaseII_Final_Baseline	0.56	230.01	230.36	0.25	230.47	0.019960	1.50	0.43	7.34	0.97
T2	3800	5 Year	DonPhaseII_Final_Proposed	1.29	230.01	230.53	0.37	230.69	0.018353	1.86	0.86	13.04	0.98
T2	3800	2 Year	DonPhaseII_Final_Proposed	0.56	230.01	230.36	0.25	230.47	0.019960	1.50	0.43	7.34	0.97
T2	3773.65	Regional	DonPhaseII_Final_Baseline	35.01	229.70	231.06	1.26	231.36	0.008634	3.07	21.06	32.50	0.87
T2	3773.65	Regional	DonPhaseII_Final_Proposed	35.01	229.70	231.06	1.26	231.36	0.008634	3.07	21.06	32.50	0.87
T2	3773.65	350 Year	DonPhaseII_Final_Baseline	8.74	229.70	230.45	0.65	230.68	0.011237	2.26	5.26	14.97	0.89
T2	3773.65	350 Year	DonPhaseII_Final_Proposed	8.74	229.70	230.45	0.65	230.68	0.011237	2.26	5.26	14.97	0.89
T2	3773.65	100 Year	DonPhaseII_Final_Baseline	3.49	229.70	230.17	0.36	230.33	0.015455	1.80	2.15	8.34	0.95
T2	3773.65	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	229.70	230.23	0.43	230.41	0.013941	1.92	2.76	9.38	0.93
T2	3773.65	50 Year	DonPhaseII_Final_Baseline	3.00	229.70	230.13	0.32	230.28	0.016966	1.75	1.85	7.14	0.98
T2	3773.65	100 Year	DonPhaseII_Final_Proposed	3.49	229.70	230.17	0.36	230.33	0.015455	1.80	2.15	8.34	0.95
T2	3773.65	25 Year	DonPhaseII_Final_Baseline	2.44	229.70	230.08	0.28	230.22	0.018097	1.64	1.56	6.45	

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	3773.65	2 Year	DonPhaseII_Final_Proposed	0.56	229.70	229.95	0.15	229.97	0.008754	0.75	0.76	5.24	0.62
T2	3745.49	Regional	DonPhaseII_Final_Baseline	35.01	229.24	230.35	1.01	230.72	0.022837	4.26	18.62	26.50	1.36
T2	3745.49	Regional	DonPhaseII_Final_Proposed	35.01	229.24	230.35	1.01	230.72	0.022837	4.26	18.62	26.50	1.36
T2	3745.49	350 Year	DonPhaseII_Final_Baseline	8.74	229.24	229.92	0.58	230.07	0.016483	2.50	8.16	23.24	1.05
T2	3745.49	350 Year	DonPhaseII_Final_Proposed	8.74	229.24	229.92	0.58	230.07	0.016483	2.50	8.16	23.24	1.05
T2	3745.49	100 Year	DonPhaseII_Final_Baseline	3.49	229.24	229.77	0.42	229.86	0.012305	1.75	4.66	22.24	0.86
T2	3745.49	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	229.24	229.80	0.46	229.91	0.013458	1.94	5.49	22.48	0.91
T2	3745.49	50 Year	DonPhaseII_Final_Baseline	3.00	229.24	229.75	0.40	229.83	0.011664	1.66	4.23	22.12	0.83
T2	3745.49	100 Year	DonPhaseII_Final_Proposed	3.49	229.24	229.77	0.42	229.86	0.012305	1.75	4.66	22.24	0.86
T2	3745.49	25 Year	DonPhaseII_Final_Baseline	2.44	229.24	229.72	0.38	229.80	0.010892	1.53	3.69	21.93	0.80
T2	3745.49	50 Year	DonPhaseII_Final_Proposed	3.00	229.24	229.75	0.40	229.83	0.011664	1.66	4.23	22.12	0.83
T2	3745.49	10 Year	DonPhaseII_Final_Baseline	1.84	229.24	229.69	0.35	229.76	0.009748	1.37	3.04	21.64	0.74
T2	3745.49	25 Year	DonPhaseII_Final_Proposed	2.44	229.24	229.72	0.38	229.80	0.010892	1.53	3.69	21.93	0.80
T2	3745.49	5 Year	DonPhaseII_Final_Baseline	1.29	229.24	229.66	0.31	229.71	0.008814	1.22	2.28	21.28	0.69
T2	3745.49	10 Year	DonPhaseII_Final_Proposed	1.84	229.24	229.69	0.35	229.76	0.009748	1.37	3.04	21.64	0.74
T2	3745.49	2 Year	DonPhaseII_Final_Baseline	0.56	229.24	229.51	0.17	229.60	0.022138	1.29	0.44	2.83	1.00
T2	3745.49	5 Year	DonPhaseII_Final_Proposed	1.29	229.24	229.66	0.31	229.71	0.008814	1.22	2.28	21.28	0.69
T2	3745.49	2 Year	DonPhaseII_Final_Proposed	0.56	229.24	229.51	0.17	229.60	0.022138	1.29	0.44	2.83	1.00
T2	3700.29	Regional	DonPhaseII_Final_Baseline	35.01	227.95	230.00	1.85	230.06	0.001681	1.74	47.57	50.69	0.41
T2	3700.29	Regional	DonPhaseII_Final_Proposed	35.01	227.95	230.00	1.85	230.06	0.001681	1.74	47.57	50.69	0.41
T2	3700.29	350 Year	DonPhaseII_Final_Baseline	8.74	227.95	229.27	1.13	229.34	0.001995	1.36	13.63	37.96	0.41
T2	3700.29	350 Year	DonPhaseII_Final_Proposed	8.74	227.95	229.27	1.13	229.34	0.001995	1.36	13.63	37.96	0.41
T2	3700.29	100 Year	DonPhaseII_Final_Baseline	3.49	227.95	228.89	0.75	228.93	0.001823	0.99	5.34	11.41	0.36
T2	3700.29	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	227.95	229.00	0.86	229.05	0.001787	1.07	6.74	15.09	0.37
T2	3700.29	50 Year	DonPhaseII_Final_Baseline	3.00	227.95	228.83	0.68	228.87	0.001872	0.94	4.67	10.79	0.36
T2	3700.29	100 Year	DonPhaseII_Final_Proposed	3.49	227.95	228.89	0.75	228.93	0.001823	0.99	5.34	11.41	0.36
T2	3700.29	25 Year	DonPhaseII_Final_Baseline	2.44	227.95	228.75	0.61	228.79	0.001928	0.89	3.89	9.94	0.36
T2	3700.29	50 Year	DonPhaseII_Final_Proposed	3.00	227.95	228.83	0.68	228.87	0.001872	0.94	4.67	10.79	0.36
T2	3700.29	10 Year	DonPhaseII_Final_Baseline	1.84	227.95	228.66	0.52	228.69	0.002050	0.82	3.01	8.90	0.36
T2	3700.29	25 Year	DonPhaseII_Final_Proposed	2.44	227.95	228.75	0.61	228.79	0.001928	0.89	3.89	9.94	0.36
T2	3700.29	5 Year	DonPhaseII_Final_Baseline	1.29	227.95	228.56	0.42	228.59	0.002222	0.74	2.18	7.88	0.37
T2	3700.29	10 Year	DonPhaseII_Final_Proposed	1.84	227.95	228.66	0.52	228.69	0.002050	0.82	3.01	8.90	0.36
T2	3700.29	2 Year	DonPhaseII_Final_Baseline	0.56	227.95	228.40	0.25	228.41	0.002536	0.56	1.06	5.66	0.36
T2	3700.29	5 Year	DonPhaseII_Final_Proposed	1.29	227.95	228.56	0.42	228.59	0.002222	0.74	2.18	7.88	0.37
T2	3700.29	2 Year	DonPhaseII_Final_Proposed	0.56	227.95	228.40	0.25	228.41	0.002536	0.56	1.06	5.66	0.36
T2	3685.37	Regional	DonPhaseII_Final_Baseline	35.01	227.96	229.99	1.90	230.03	0.001465	1.64	53.23	62.23	0.38
T2	3685.37	Regional	DonPhaseII_Final_Proposed	35.01	227.96	229.99	1.90	230.03	0.001465	1.64	53.23	62.23	0.38
T2	3685.37	350 Year	DonPhaseII_Final_Baseline	8.74	227.96	229.14	1.05	229.29	0.004940	2.04	10.27	38.49	0.63
T2	3685.37	350 Year	DonPhaseII_Final_Proposed	8.74	227.96	229.14	1.05	229.29	0.004940	2.04	10.27	38.49	0.63
T2	3685.37	100 Year	DonPhaseII_Final_Baseline	3.49	227.96	228.64	0.54	228.85	0.013299	2.15	2.07	5.89	0.93
T2	3685.37	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	227.96	228.74	0.65	228.98	0.011525	2.26	2.84	9.34	0.89
T2	3685.37	50 Year	DonPhaseII_Final_Baseline	3.00	227.96	228.59	0.50	228.79	0.013754	2.06	1.80	5.45	0.93
T2	3685.37	100 Year	DonPhaseII_Final_Proposed	3.49	227.96	228.64	0.54	228.85	0.013299	2.15	2.07	5.89	0.93
T2	3685.37	25 Year	DonPhaseII_Final_Baseline	2.44	227.96	228.52	0.43	228.71	0.015213	1.97	1.46	4.83	0.96
T2	3685.37	50 Year	DonPhaseII_Final_Proposed	3.00	227.96	228.59	0.50	228.79	0.013754	2.06	1.80	5.45	0.93
T2	3685.37	10 Year	DonPhaseII_Final_Baseline	1.84	227.96	228.44	0.35	228.61	0.017905	1.85	1.10	3.82	1.00
T2	3685.37	25 Year	DonPhaseII_Final_Proposed	2.44	227.96	228.52	0.43	228.71	0.015213	1.97	1.46	4.83	0.96
T2	3685.37	5 Year	DonPhaseII_Final_Baseline	1.29	227.96	228.37	0.28	228.50	0.018314	1.64	0.85	3.45	0.98
T2	3685.37	10 Year	DonPhaseII_Final_Proposed	1.84	227.96	228.44	0.35	228.61	0.017905	1.85	1.10	3.82	1.00
T2	3685.37	2 Year	DonPhaseII_Final_Baseline	0.56	227.96	228.24	0.18	228.32	0.020966	1.30	0.44	2.66	0.98
T2	3685.37	5 Year	DonPhaseII_Final_Proposed	1.29	227.96	228.37	0.28	228.50	0.018314	1.64	0.85	3.45	0.98
T2	3685.37	2 Year	DonPhaseII_Final_Proposed	0.56	227.96	228.24	0.18	228.32	0.020966	1.30	0.44	2.66	0.98
T2	3600	Regional	DonPhaseII_Final_Baseline	35.01	227.23	229.95	2.66	229.97	0.000377	1.06	84.48	57.85	0.21
T2	3600	Regional	DonPhaseII_Final_Proposed	35.01	227.23	229.95	2.66	229.97	0.000377	1.06	84.48	57.85	0.21
T2	3600	350 Year	DonPhaseII_Final_Baseline	8.74	227.23	228.18	0.89	228.40	0.007052	2.20	5.83	15.46	0.75
T2	3600	350 Year	DonPhaseII_Final_Proposed	8.74	227.23	228.18	0.89	228.40	0.007052	2.20	5.83	15.46	0.75
T2	3600	100 Year	DonPhaseII_Final_Baseline	3.49	227.23	227.85	0.55	227.96	0.006413	1.52	2.86	7.23	0.66
T2	3600	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	227.23	227.93	0.64	228.06	0.006351	1.67	3.51	7.69	0.67
T2	3600	50 Year	DonPhaseII_Final_Baseline	3.00	227.23	227.83	0.53	227.91	0.005392	1.36	2.72	7.12	0.60
T2	3600	100 Year	DonPhaseII_Final_Proposed	3.49	227.23	227.85	0.55	227.96	0.006413	1.52	2.86	7.23	0.66
T2	3600	25 Year	DonPhaseII_Final_Baseline	2.44	227.23	227.78	0.49	227.86	0.004797	1.22	2.43	6.83	0.56
T2	3600	50 Year	DonPhaseII_Final_Proposed	3.00	227.23	227.83	0.53	227.91	0.005392	1.36	2.72	7.12	0.60
T2	3600	10 Year	DonPhaseII_Final_Baseline	1.84	227.23	227.71	0.41	227.77	0.004940	1.11	1.94	6.29	0.55
T2	3600	25 Year	DonPhaseII_Final_Proposed	2.44	227.23	227.78	0.49	227.86	0.004797	1.22	2.43	6.83	0.56
T2	3600	5 Year	DonPhaseII_Final_Baseline	1.29	227.23	227.63	0.34	227.68	0.005008	0.97	1.48	5.68	0.54
T2	3600	10 Year	DonPhaseII_Final_Proposed	1.84	227.23	227.71	0.41	227.77	0.004940	1.11	1.94	6.29	0.55
T2	3600	2 Year	DonPhaseII_Final_Baseline	0.56	227.23	227.51	0.21	227.53	0.004715	0.69	0.84	4.49	0.48
T2	3600	5 Year	DonPhaseII_Final_Proposed	1.29	227.23	227.63	0.34	227.68	0.005008	0.97	1.48	5.68	0.54
T2	3600	2 Year	DonPhaseII_Final_Proposed	0.56	227.23	227.51	0.21	227.53	0.004715	0.69	0.84	4.49	0.48
T2	3500.1	Regional	DonPhaseII_Final_Baseline	35.01	226.61	229.95	3.31	229.96	0.000072	0.54	174.31	75.55	0.09
T2	3500.1	Regional	DonPhaseII_Final_Proposed	35.01	226.61	229.95	3.31	229.96	0.000072	0.54	174.31	75.55	0.09
T2	3500.1	350 Year	DonPhaseII_Final_Baseline	8.74	226.61	227.48	0.84	227.66	0.007989	2.27	9.97	38.85	0.79
T2	3500.1	350 Year	DonPhaseII_Final_Proposed	8.74	226.61	227.48	0.84	227.66	0.007989	2.27	9.97	38.85	0.79
T2	3500.1	100 Year	DonPhaseII_Final_Baseline	3.49	226.61	227.24	0.60	227.34	0.006022	1.57	3.54	10.92	0.65
T2	3500.1	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	226.61	227.34	0.70	227.46	0.005784	1.71	5.41	27.81	0.65
T2	3500.1	50 Year	DonPhaseII_Final_Baseline	3.00	226.61	227.16	0.51	227.27	0.008009	1.64	2.76	8.13	0.73
T2	3500.1	100 Year	DonPhaseII_Final_Proposed	3.49	226.61	227.24	0.60	227.34	0.006022	1.57	3.54	10.92	0.65
T2	3500.1	25 Year	DonPhaseII_Final_Baseline	2.44	226.61	227.08	0.44	227.20	0.009743	1.63	2.17	7.59	0.78
T2	3500.1	50 Year	DonPhaseII_Final_Proposed	3.00	226.61	227.16	0.51	227.27	0.008009	1.64	2.76	8.13	0.73
T2	3500.1	10 Year	DonPhaseII_Final_Baseline	1.84	226.61	227.03	0.39	227.12	0.008946	1.43	1.79	7.23	0.74
T2	3500.1	25 Year	DonPhaseII_Final_Proposed	2.44	226.61	227.08	0.44	227.20	0.009743	1.63	2.17	7.59	0.78
T2	3500.1	5 Year	DonPhaseII_Final_Baseline	1.29	226.61	226.96	0.32	227.04	0.008694	1.25	1.33	6.36	0.70
T2	3500.1	10 Year	DonPhaseII_Final_Proposed	1.84	226.61	227.03	0.39	227.12	0.008946	1.43	1.79	7.23	0.74
T2	3500.1	2 Year	DonPhaseII_Final_Baseline	0.56	226.61	226.84	0.20	226.88	0.009587	0.94	0.68	4.44	0.68
T2	3500.1	5 Year	DonPhaseII_Final_Proposed	1.29	226.61	226.96	0.32	227.04					

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	3398.23	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	225.81	226.39	0.55	226.62	0.014220	2.30	2.90	7.72	0.99
T2	3398.23	50 Year	DonPhaseII_Final_Baseline	3.00	225.81	226.34	0.51	226.47	0.008556	1.68	2.55	7.16	0.75
T2	3398.23	100 Year	DonPhaseII_Final_Proposed	3.49	225.81	226.33	0.49	226.51	0.013135	2.04	2.43	6.99	0.93
T2	3398.23	25 Year	DonPhaseII_Final_Baseline	2.44	225.81	226.32	0.49	226.41	0.006651	1.44	2.39	6.95	0.66
T2	3398.23	50 Year	DonPhaseII_Final_Proposed	3.00	225.81	226.34	0.51	226.47	0.008556	1.68	2.55	7.16	0.75
T2	3398.23	10 Year	DonPhaseII_Final_Baseline	1.84	225.81	226.24	0.40	226.32	0.007467	1.35	1.84	6.24	0.68
T2	3398.23	25 Year	DonPhaseII_Final_Proposed	2.44	225.81	226.32	0.49	226.41	0.006651	1.44	2.39	6.95	0.66
T2	3398.23	5 Year	DonPhaseII_Final_Baseline	1.29	225.81	226.16	0.33	226.23	0.007616	1.19	1.40	5.61	0.66
T2	3398.23	10 Year	DonPhaseII_Final_Proposed	1.84	225.81	226.24	0.40	226.32	0.007467	1.35	1.84	6.24	0.68
T2	3398.23	2 Year	DonPhaseII_Final_Baseline	0.56	225.81	226.05	0.21	226.08	0.006708	0.83	0.80	4.76	0.58
T2	3398.23	5 Year	DonPhaseII_Final_Proposed	1.29	225.81	226.16	0.33	226.23	0.007616	1.19	1.40	5.61	0.66
T2	3398.23	2 Year	DonPhaseII_Final_Proposed	0.56	225.81	226.05	0.21	226.08	0.006708	0.83	0.80	4.76	0.58
T2	3311.72	Regional	DonPhaseII_Final_Baseline	35.01	225.19	229.95	4.76	229.95	0.000013	0.29	344.71	113.96	0.04
T2	3311.72	Regional	DonPhaseII_Final_Proposed	35.01	225.19	229.95	4.76	229.95	0.000013	0.29	344.71	113.96	0.04
T2	3311.72	350 Year	DonPhaseII_Final_Baseline	8.74	225.19	226.97	1.77	226.97	0.000104	0.43	61.94	70.64	0.10
T2	3311.72	350 Year	DonPhaseII_Final_Proposed	8.74	225.19	226.97	1.77	226.97	0.000104	0.43	61.94	70.64	0.10
T2	3311.72	100 Year	DonPhaseII_Final_Baseline	3.49	225.19	225.75	0.55	225.82	0.005714	1.45	4.56	14.50	0.62
T2	3311.72	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	225.19	225.99	0.79	226.03	0.002348	1.18	10.14	35.34	0.43
T2	3311.72	50 Year	DonPhaseII_Final_Baseline	3.00	225.19	225.66	0.46	225.75	0.009089	1.62	3.26	13.24	0.76
T2	3311.72	100 Year	DonPhaseII_Final_Proposed	3.49	225.19	225.75	0.55	225.82	0.005714	1.45	4.56	14.50	0.62
T2	3311.72	25 Year	DonPhaseII_Final_Baseline	2.44	225.19	225.57	0.37	225.68	0.012901	1.69	2.31	9.60	0.88
T2	3311.72	50 Year	DonPhaseII_Final_Proposed	3.00	225.19	225.66	0.46	225.75	0.009089	1.62	3.26	13.24	0.76
T2	3311.72	10 Year	DonPhaseII_Final_Baseline	1.84	225.19	225.54	0.35	225.62	0.009952	1.40	2.06	8.39	0.76
T2	3311.72	25 Year	DonPhaseII_Final_Proposed	2.44	225.19	225.57	0.37	225.68	0.012901	1.69	2.31	9.60	0.88
T2	3311.72	5 Year	DonPhaseII_Final_Baseline	1.29	225.19	225.49	0.29	225.55	0.008957	1.20	1.64	7.92	0.70
T2	3311.72	10 Year	DonPhaseII_Final_Proposed	1.84	225.19	225.54	0.35	225.62	0.009952	1.40	2.06	8.39	0.76
T2	3311.72	2 Year	DonPhaseII_Final_Baseline	0.56	225.19	225.38	0.19	225.42	0.009478	0.91	0.85	6.64	0.67
T2	3311.72	5 Year	DonPhaseII_Final_Proposed	1.29	225.19	225.49	0.29	225.55	0.008957	1.20	1.64	7.92	0.70
T2	3311.72	2 Year	DonPhaseII_Final_Proposed	0.56	225.19	225.38	0.19	225.42	0.009478	0.91	0.85	6.64	0.67
T2	3282.44	Regional	DonPhaseII_Final_Baseline	35.01	224.63	229.95	5.22	229.95	0.000011	0.28	327.61	126.25	0.04
T2	3282.44	Regional	DonPhaseII_Final_Proposed	35.01	224.63	229.95	5.22	229.95	0.000011	0.28	327.61	126.25	0.04
T2	3282.44	350 Year	DonPhaseII_Final_Baseline	8.74	224.63	226.88	2.15	226.95	0.000823	1.34	9.99	62.60	0.29
T2	3282.44	350 Year	DonPhaseII_Final_Proposed	8.74	224.63	226.88	2.15	226.95	0.000823	1.34	9.99	62.60	0.29
T2	3282.44	100 Year	DonPhaseII_Final_Baseline	3.49	224.63	225.65	0.91	225.73	0.002906	1.43	3.71	9.85	0.48
T2	3282.44	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	224.63	225.90	1.16	225.97	0.002004	1.39	4.98	12.34	0.41
T2	3282.44	50 Year	DonPhaseII_Final_Baseline	3.00	224.63	225.53	0.80	225.62	0.003596	1.45	3.12	8.82	0.52
T2	3282.44	100 Year	DonPhaseII_Final_Proposed	3.49	224.63	225.65	0.91	225.73	0.002906	1.43	3.71	9.85	0.48
T2	3282.44	25 Year	DonPhaseII_Final_Baseline	2.44	224.63	225.39	0.65	225.49	0.005093	1.51	2.39	7.30	0.60
T2	3282.44	50 Year	DonPhaseII_Final_Proposed	3.00	224.63	225.53	0.80	225.62	0.003596	1.45	3.12	8.82	0.52
T2	3282.44	10 Year	DonPhaseII_Final_Baseline	1.84	224.63	225.20	0.46	225.34	0.010971	1.76	1.45	4.94	0.83
T2	3282.44	25 Year	DonPhaseII_Final_Proposed	2.44	224.63	225.39	0.65	225.49	0.005093	1.51	2.39	7.30	0.60
T2	3282.44	5 Year	DonPhaseII_Final_Baseline	1.29	224.63	225.09	0.35	225.23	0.015089	1.72	0.95	4.08	0.93
T2	3282.44	10 Year	DonPhaseII_Final_Proposed	1.84	224.63	225.20	0.46	225.34	0.010971	1.76	1.45	4.94	0.83
T2	3282.44	2 Year	DonPhaseII_Final_Baseline	0.56	224.63	224.94	0.20	225.03	0.020008	1.37	0.44	2.78	0.97
T2	3282.44	5 Year	DonPhaseII_Final_Proposed	1.29	224.63	225.09	0.35	225.23	0.015089	1.72	0.95	4.08	0.93
T2	3282.44	2 Year	DonPhaseII_Final_Proposed	0.56	224.63	224.94	0.20	225.03	0.020008	1.37	0.44	2.78	0.97
T2	3257.89		Culvert										
T2	3235.47	Regional	DonPhaseII_Final_Baseline	35.01	224.67	226.71	2.00	227.60	0.010393	4.62	9.91	55.98	1.04
T2	3235.47	Regional	DonPhaseII_Final_Proposed	35.01	224.67	226.71	2.00	227.60	0.010393	4.62	9.91	55.98	1.04
T2	3235.47	350 Year	DonPhaseII_Final_Baseline	8.74	224.67	225.52	0.81	225.89	0.014095	2.95	3.86	37.27	1.04
T2	3235.47	350 Year	DonPhaseII_Final_Proposed	8.74	224.67	225.52	0.81	225.89	0.014095	2.95	3.86	37.27	1.04
T2	3235.47	100 Year	DonPhaseII_Final_Baseline	3.49	224.67	225.18	0.46	225.38	0.015776	2.15	2.09	7.08	1.01
T2	3235.47	1.3*100 Year	DonPhaseII_Final_Proposed	4.54	224.67	225.25	0.54	225.50	0.015456	2.36	2.48	7.67	1.02
T2	3235.47	50 Year	DonPhaseII_Final_Baseline	3.00	224.67	225.14	0.43	225.32	0.015942	2.04	1.89	6.81	1.00
T2	3235.47	100 Year	DonPhaseII_Final_Proposed	3.49	224.67	225.18	0.46	225.38	0.015776	2.15	2.09	7.08	1.01
T2	3235.47	25 Year	DonPhaseII_Final_Baseline	2.44	224.67	225.09	0.38	225.25	0.016125	1.89	1.64	6.49	0.98
T2	3235.47	50 Year	DonPhaseII_Final_Proposed	3.00	224.67	225.14	0.43	225.32	0.015942	2.04	1.89	6.81	1.00
T2	3235.47	10 Year	DonPhaseII_Final_Baseline	1.84	224.67	225.03	0.32	225.17	0.016720	1.72	1.35	6.08	0.97
T2	3235.47	25 Year	DonPhaseII_Final_Proposed	2.44	224.67	225.09	0.38	225.25	0.016125	1.89	1.64	6.49	0.98
T2	3235.47	5 Year	DonPhaseII_Final_Baseline	1.29	224.67	224.97	0.26	225.08	0.017105	1.52	1.05	5.58	0.95
T2	3235.47	10 Year	DonPhaseII_Final_Proposed	1.84	224.67	225.03	0.32	225.17	0.016720	1.72	1.35	6.08	0.97
T2	3235.47	2 Year	DonPhaseII_Final_Baseline	0.56	224.67	224.87	0.15	224.94	0.020937	1.19	0.53	4.45	0.96
T2	3235.47	5 Year	DonPhaseII_Final_Proposed	1.29	224.67	224.97	0.26	225.08	0.017105	1.52	1.05	5.58	0.95
T2	3235.47	2 Year	DonPhaseII_Final_Proposed	0.56	224.67	224.87	0.15	224.94	0.020937	1.19	0.53	4.45	0.96
T2	3224.34	Regional	DonPhaseII_Final_Baseline	37.22	224.36	227.14	2.72	227.16	0.000310	0.98	102.50	69.17	0.19
T2	3224.34	Regional	DonPhaseII_Final_Proposed	37.22	224.36	227.14	2.72	227.16	0.000310	0.98	102.50	69.17	0.19
T2	3224.34	350 Year	DonPhaseII_Final_Baseline	9.73	224.36	225.25	0.84	225.39	0.005962	1.95	8.77	19.08	0.68
T2	3224.34	350 Year	DonPhaseII_Final_Proposed	9.73	224.36	225.25	0.84	225.39	0.005962	1.95	8.77	19.08	0.68
T2	3224.34	100 Year	DonPhaseII_Final_Baseline	3.58	224.36	224.94	0.52	225.01	0.005171	1.33	4.33	12.99	0.59
T2	3224.34	1.3*100 Year	DonPhaseII_Final_Proposed	4.65	224.36	225.01	0.59	225.09	0.005248	1.46	5.27	13.34	0.60
T2	3224.34	50 Year	DonPhaseII_Final_Baseline	3.04	224.36	224.90	0.49	224.97	0.004994	1.24	3.86	12.81	0.57
T2	3224.34	100 Year	DonPhaseII_Final_Proposed	3.58	224.36	224.94	0.52	225.01	0.005171	1.33	4.33	12.99	0.59
T2	3224.34	25 Year	DonPhaseII_Final_Baseline	2.45	224.36	224.86	0.44	224.92	0.004755	1.14	3.30	12.59	0.55
T2	3224.34	50 Year	DonPhaseII_Final_Proposed	3.04	224.36	224.90	0.49	224.97	0.004994	1.24	3.86	12.81	0.57
T2	3224.34	10 Year	DonPhaseII_Final_Baseline	1.97	224.36	224.82	0.40	224.87	0.004492	1.04	2.81	12.39	0.52
T2	3224.34	25 Year	DonPhaseII_Final_Proposed	2.45	224.36	224.86	0.44	224.92	0.004755	1.14	3.30	12.59	0.55
T2	3224.34	5 Year	DonPhaseII_Final_Baseline	1.53	224.36	224.77	0.35	224.81	0.004426	0.94	2.23	10.53	0.51
T2	3224.34	10 Year	DonPhaseII_Final_Proposed	1.97	224.36	224.82	0.40	224.87	0.004492	1.04	2.81	12.39	0.52
T2	3224.34	2 Year	DonPhaseII_Final_Baseline	0.55	224.36	224.63	0.21	224.64	0.003885	0.62	1.07	6.64	0.44
T2	3224.34	5 Year	DonPhaseII_Final_Proposed	1.53	224.36	224.77	0.35	224.81	0.004426	0.94	2.23	10.53	0.51
T2	3224.34	2 Year	DonPhaseII_Final_Proposed	0.55	224.36	224.63	0.21	224.64	0.003885	0.62	1.07	6.64	0.44
T2	3181.35	Regional	DonPhaseII_Final_Baseline	37.22	224.05	227.14	2.99	227.15	0.000203	0.53	127.43	68.60	0.10
T2	3181.35	Regional	DonPhaseII_Final_Proposed	37.22	224.05	227.14	2.99	227.15	0.000203	0.53	127.43	68.60	0.10
T2	3181.35	350 Year	DonPhaseII_Final_Baseline	9.73	224.05	225.05	0.90	225.11	0.006769	1.37	11.56	25.19	0.46
T2	3181.35	350 Year	DonPhaseII_Final_Proposed	9.73	224.05	225.05	0.90	225.11	0.006769	1.37	11.56	25.19	0.46
T2	3181.35	100 Year	DonPhaseII										

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	3181.35	10 Year	DonPhaseII_Final_Baseline	1.97	224.05	224.46	0.32	224.52	0.019824	1.17	2.05	9.45	0.66
T2	3181.35	25 Year	DonPhaseII_Final_Proposed	2.45	224.05	224.51	0.36	224.57	0.017299	1.20	2.53	9.87	0.63
T2	3181.35	5 Year	DonPhaseII_Final_Baseline	1.53	224.05	224.43	0.29	224.48	0.017358	1.04	1.75	9.00	0.62
T2	3181.35	10 Year	DonPhaseII_Final_Proposed	1.97	224.05	224.46	0.32	224.52	0.019824	1.17	2.05	9.45	0.66
T2	3181.35	2 Year	DonPhaseII_Final_Baseline	0.55	224.05	224.28	0.16	224.31	0.022789	0.84	0.66	4.64	0.68
T2	3181.35	5 Year	DonPhaseII_Final_Proposed	1.53	224.05	224.43	0.29	224.48	0.017358	1.04	1.75	9.00	0.62
T2	3181.35	2 Year	DonPhaseII_Final_Proposed	0.55	224.05	224.28	0.16	224.31	0.022789	0.84	0.66	4.64	0.68
T2	3136.25	Regional	DonPhaseII_Final_Baseline	37.22	223.44	227.13	3.64	227.14	0.000064	0.54	222.33	118.34	0.09
T2	3136.25	Regional	DonPhaseII_Final_Proposed	37.22	223.44	227.13	3.64	227.14	0.000064	0.54	222.33	118.34	0.09
T2	3136.25	350 Year	DonPhaseII_Final_Baseline	9.73	223.44	224.54	1.04	224.78	0.007200	2.48	7.86	20.37	0.77
T2	3136.25	350 Year	DonPhaseII_Final_Proposed	9.73	223.44	224.54	1.04	224.78	0.007200	2.48	7.86	20.37	0.77
T2	3136.25	100 Year	DonPhaseII_Final_Baseline	3.58	223.44	224.11	0.62	224.25	0.007242	1.75	2.82	6.76	0.71
T2	3136.25	1.3*100 Year	DonPhaseII_Final_Proposed	4.65	223.44	224.20	0.70	224.36	0.007519	1.94	3.43	7.35	0.74
T2	3136.25	50 Year	DonPhaseII_Final_Baseline	3.04	223.44	224.07	0.57	224.19	0.006951	1.63	2.52	6.44	0.69
T2	3136.25	100 Year	DonPhaseII_Final_Proposed	3.58	223.44	224.11	0.62	224.25	0.007242	1.75	2.82	6.76	0.71
T2	3136.25	25 Year	DonPhaseII_Final_Baseline	2.45	223.44	224.00	0.51	224.11	0.006881	1.50	2.13	6.02	0.67
T2	3136.25	50 Year	DonPhaseII_Final_Proposed	3.04	223.44	224.07	0.57	224.19	0.006951	1.63	2.52	6.44	0.69
T2	3136.25	10 Year	DonPhaseII_Final_Baseline	1.97	223.44	223.95	0.45	224.04	0.006724	1.37	1.81	5.63	0.65
T2	3136.25	25 Year	DonPhaseII_Final_Proposed	2.45	223.44	224.00	0.51	224.11	0.006881	1.50	2.13	6.02	0.67
T2	3136.25	5 Year	DonPhaseII_Final_Baseline	1.53	223.44	223.86	0.37	223.95	0.008385	1.34	1.37	5.02	0.70
T2	3136.25	10 Year	DonPhaseII_Final_Proposed	1.97	223.44	223.95	0.45	224.04	0.006724	1.37	1.81	5.63	0.65
T2	3136.25	2 Year	DonPhaseII_Final_Baseline	0.55	223.44	223.71	0.21	223.74	0.007804	0.89	0.66	3.81	0.62
T2	3136.25	5 Year	DonPhaseII_Final_Proposed	1.53	223.44	223.86	0.37	223.95	0.008385	1.34	1.37	5.02	0.70
T2	3136.25	2 Year	DonPhaseII_Final_Proposed	0.55	223.44	223.71	0.21	223.74	0.007804	0.89	0.66	3.81	0.62
T2	3100	Regional	DonPhaseII_Final_Baseline	40.90	223.16	227.14	3.92	227.14	0.000003	0.11	474.81	144.73	0.02
T2	3100	Regional	DonPhaseII_Final_Proposed	40.90	223.16	227.14	3.92	227.14	0.000003	0.11	474.81	144.73	0.02
T2	3100	350 Year	DonPhaseII_Final_Baseline	10.38	223.16	224.14	0.92	224.41	0.010428	2.74	7.20	73.34	0.92
T2	3100	350 Year	DonPhaseII_Final_Proposed	10.38	223.16	224.14	0.92	224.41	0.010428	2.74	7.20	73.34	0.92
T2	3100	100 Year	DonPhaseII_Final_Baseline	3.58	223.16	223.75	0.53	223.90	0.010452	1.90	2.91	61.54	0.84
T2	3100	1.3*100 Year	DonPhaseII_Final_Proposed	4.65	223.16	223.82	0.60	224.00	0.010590	2.09	3.57	63.20	0.86
T2	3100	50 Year	DonPhaseII_Final_Baseline	3.03	223.16	223.70	0.48	223.83	0.010951	1.82	2.50	60.51	0.84
T2	3100	100 Year	DonPhaseII_Final_Proposed	3.58	223.16	223.75	0.53	223.90	0.010452	1.90	2.91	61.54	0.84
T2	3100	25 Year	DonPhaseII_Final_Baseline	2.45	223.16	223.65	0.43	223.77	0.010543	1.66	2.14	59.56	0.81
T2	3100	50 Year	DonPhaseII_Final_Proposed	3.03	223.16	223.70	0.48	223.83	0.010951	1.82	2.50	60.51	0.84
T2	3100	10 Year	DonPhaseII_Final_Baseline	1.96	223.16	223.60	0.38	223.70	0.010628	1.54	1.79	58.59	0.80
T2	3100	25 Year	DonPhaseII_Final_Proposed	2.45	223.16	223.65	0.43	223.77	0.010543	1.66	2.14	59.56	0.81
T2	3100	5 Year	DonPhaseII_Final_Baseline	1.37	223.16	223.56	0.34	223.63	0.007854	1.23	1.53	57.84	0.67
T2	3100	10 Year	DonPhaseII_Final_Proposed	1.96	223.16	223.60	0.38	223.70	0.010628	1.54	1.79	58.59	0.80
T2	3100	2 Year	DonPhaseII_Final_Baseline	0.55	223.16	223.43	0.21	223.47	0.006817	0.84	0.80	55.34	0.58
T2	3100	5 Year	DonPhaseII_Final_Proposed	1.37	223.16	223.56	0.34	223.63	0.007854	1.23	1.53	57.84	0.67
T2	3100	2 Year	DonPhaseII_Final_Proposed	0.55	223.16	223.43	0.21	223.47	0.006817	0.84	0.80	55.34	0.58
T2	3000	Regional	DonPhaseII_Final_Baseline	28.96	222.13	227.14	4.87	227.14	0.000002	0.11	462.89	132.49	0.02
T2	3000	Regional	DonPhaseII_Final_Proposed	28.96	222.13	227.14	4.87	227.14	0.000002	0.11	462.89	132.49	0.02
T2	3000	350 Year	DonPhaseII_Final_Baseline	9.18	222.13	222.93	0.66	223.08	0.014734	2.31	8.62	48.23	0.91
T2	3000	350 Year	DonPhaseII_Final_Proposed	9.18	222.13	222.93	0.66	223.08	0.014734	2.31	8.62	48.23	0.91
T2	3000	100 Year	DonPhaseII_Final_Baseline	3.20	222.13	222.74	0.47	222.83	0.011180	1.60	4.03	41.19	0.75
T2	3000	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	222.13	222.78	0.51	222.88	0.012207	1.76	4.88	42.10	0.79
T2	3000	50 Year	DonPhaseII_Final_Baseline	2.78	222.13	222.72	0.45	222.80	0.009790	1.47	3.77	40.90	0.70
T2	3000	100 Year	DonPhaseII_Final_Proposed	3.20	222.13	222.74	0.47	222.83	0.011180	1.60	4.03	41.19	0.75
T2	3000	25 Year	DonPhaseII_Final_Baseline	2.30	222.13	222.69	0.42	222.77	0.009508	1.39	3.19	40.17	0.68
T2	3000	50 Year	DonPhaseII_Final_Proposed	2.78	222.13	222.72	0.45	222.80	0.009790	1.47	3.77	40.90	0.70
T2	3000	10 Year	DonPhaseII_Final_Baseline	1.76	222.13	222.65	0.40	222.73	0.008888	1.29	2.39	38.13	0.65
T2	3000	25 Year	DonPhaseII_Final_Proposed	2.30	222.13	222.69	0.42	222.77	0.009508	1.39	3.19	40.17	0.68
T2	3000	5 Year	DonPhaseII_Final_Baseline	1.27	222.13	222.58	0.33	222.66	0.012185	1.32	1.20	29.45	0.74
T2	3000	10 Year	DonPhaseII_Final_Proposed	1.76	222.13	222.65	0.40	222.73	0.008888	1.29	2.39	38.13	0.65
T2	3000	2 Year	DonPhaseII_Final_Baseline	0.67	222.13	222.45	0.22	222.52	0.012793	1.15	0.58	18.65	0.78
T2	3000	5 Year	DonPhaseII_Final_Proposed	1.27	222.13	222.58	0.33	222.66	0.012185	1.32	1.20	29.45	0.74
T2	3000	2 Year	DonPhaseII_Final_Proposed	0.67	222.13	222.45	0.22	222.52	0.012793	1.15	0.58	18.65	0.78
T2	2948.19	Regional	DonPhaseII_Final_Baseline	28.96	221.72	227.14	5.17	227.14	0.000000	0.06	754.08	180.14	0.01
T2	2948.19	Regional	DonPhaseII_Final_Proposed	28.96	221.72	227.14	5.17	227.14	0.000000	0.06	754.08	180.14	0.01
T2	2948.19	350 Year	DonPhaseII_Final_Baseline	9.18	221.72	222.62	0.66	222.65	0.001860	0.92	18.11	114.14	0.36
T2	2948.19	350 Year	DonPhaseII_Final_Proposed	9.18	221.72	222.62	0.66	222.65	0.001860	0.92	18.11	114.14	0.36
T2	2948.19	100 Year	DonPhaseII_Final_Baseline	3.20	221.72	222.34	0.38	222.38	0.004884	1.03	4.86	32.95	0.53
T2	2948.19	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	221.72	222.49	0.52	222.50	0.001319	0.66	11.01	104.69	0.29
T2	2948.19	50 Year	DonPhaseII_Final_Baseline	2.78	221.72	222.29	0.33	222.35	0.008886	1.26	3.29	28.18	0.70
T2	2948.19	100 Year	DonPhaseII_Final_Proposed	3.20	221.72	222.34	0.38	222.38	0.004884	1.03	4.86	32.95	0.53
T2	2948.19	25 Year	DonPhaseII_Final_Baseline	2.30	221.72	222.27	0.31	222.33	0.008474	1.19	2.81	26.51	0.68
T2	2948.19	50 Year	DonPhaseII_Final_Proposed	2.78	221.72	222.29	0.33	222.35	0.008886	1.26	3.29	28.18	0.70
T2	2948.19	10 Year	DonPhaseII_Final_Baseline	1.76	221.72	222.25	0.29	222.30	0.008106	1.10	2.20	22.18	0.66
T2	2948.19	25 Year	DonPhaseII_Final_Proposed	2.30	221.72	222.27	0.31	222.33	0.008474	1.19	2.81	26.51	0.68
T2	2948.19	5 Year	DonPhaseII_Final_Baseline	1.27	221.72	222.24	0.28	222.27	0.004963	0.84	2.03	21.87	0.51
T2	2948.19	10 Year	DonPhaseII_Final_Proposed	1.76	221.72	222.25	0.29	222.30	0.008106	1.10	2.20	22.18	0.66
T2	2948.19	2 Year	DonPhaseII_Final_Baseline	0.67	221.72	222.20	0.24	222.21	0.003131	0.61	1.22	11.55	0.40
T2	2948.19	5 Year	DonPhaseII_Final_Proposed	1.27	221.72	222.24	0.28	222.27	0.004963	0.84	2.03	21.87	0.51
T2	2948.19	2 Year	DonPhaseII_Final_Proposed	0.67	221.72	222.20	0.24	222.21	0.003131	0.61	1.22	11.55	0.40
T2	2876.57	Regional	DonPhaseII_Final_Baseline	28.96	221.34	227.14	5.54	227.14	0.000002	0.14	565.39	152.40	0.02
T2	2876.57	Regional	DonPhaseII_Final_Proposed	28.96	221.34	227.14	5.54	227.14	0.000002	0.14	565.39	152.40	0.02
T2	2876.57	350 Year	DonPhaseII_Final_Baseline	9.18	221.34	222.59	0.99	222.59	0.000504	0.63	40.41	72.35	0.20
T2	2876.57	350 Year	DonPhaseII_Final_Proposed	9.18	221.34	222.59	0.99	222.59	0.000504	0.63	40.41	72.35	0.20
T2	2876.57	100 Year	DonPhaseII_Final_Baseline	3.20	221.34	222.32	0.73	222.32	0.000328	0.41	22.03	62.97	0.15
T2	2876.57	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	221.34	222.47	0.88	222.47	0.000196	0.36	32.35	69.34	0.12
T2	2876.57	50 Year	DonPhaseII_Final_Baseline	2.78	221.34	222.23	0.64	222.24	0.000517	0.47	16.65	59.47	0.19
T2	2876.57	100 Year	DonPhaseII_Final_Proposed	3.20	221.34	222.32	0.73	222.32	0.000328	0.41	22.03	62.97	0.15
T2	2876.57	25 Year	DonPhaseII_Final_Baseline	2.30	221.34	222.13	0.54	222.14	0.000962	0.58	11.09	55.66	0.25
T2	2876.57	50 Year	DonPhaseII_Final_Proposed	2.78	221.34	222.23	0.64	222.24	0.000517	0.47	16.65	59.47	0.19
T2	2876.57</												

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	2862.59	Regional	DonPhaseII_Final_Baseline	42.34	221.25	227.14	5.79	227.14	0.000010	0.29	463.54	145.36	0.04
T2	2862.59	Regional	DonPhaseII_Final_Proposed	42.34	221.25	227.14	5.79	227.14	0.000010	0.29	463.54	145.36	0.04
T2	2862.59	350 Year	DonPhaseII_Final_Baseline	4.92	221.25	222.48	1.14	222.56	0.002320	1.49	6.49	18.64	0.44
T2	2862.59	350 Year	DonPhaseII_Final_Proposed	4.92	221.25	222.48	1.14	222.56	0.002320	1.49	6.49	18.64	0.44
T2	2862.59	100 Year	DonPhaseII_Final_Baseline	3.20	221.25	222.20	0.85	222.29	0.003513	1.50	3.69	8.19	0.52
T2	2862.59	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	221.25	222.36	1.02	222.44	0.002797	1.51	5.23	14.39	0.48
T2	2862.59	50 Year	DonPhaseII_Final_Baseline	2.70	221.25	222.12	0.77	222.20	0.003596	1.43	3.11	6.85	0.52
T2	2862.59	100 Year	DonPhaseII_Final_Proposed	3.20	221.25	222.20	0.85	222.29	0.003513	1.50	3.69	8.19	0.52
T2	2862.59	25 Year	DonPhaseII_Final_Baseline	2.18	221.25	222.02	0.68	222.10	0.003821	1.35	2.51	6.11	0.52
T2	2862.59	50 Year	DonPhaseII_Final_Proposed	2.70	221.25	222.12	0.77	222.20	0.003596	1.43	3.11	6.85	0.52
T2	2862.59	10 Year	DonPhaseII_Final_Baseline	1.64	221.25	221.92	0.58	221.99	0.004065	1.25	1.92	5.34	0.52
T2	2862.59	25 Year	DonPhaseII_Final_Proposed	2.18	221.25	222.02	0.68	222.10	0.003821	1.35	2.51	6.11	0.52
T2	2862.59	5 Year	DonPhaseII_Final_Baseline	1.18	221.25	221.83	0.49	221.88	0.004003	1.10	1.46	4.60	0.51
T2	2862.59	10 Year	DonPhaseII_Final_Proposed	1.64	221.25	221.92	0.58	221.99	0.004065	1.25	1.92	5.34	0.52
T2	2862.59	2 Year	DonPhaseII_Final_Baseline	0.56	221.25	221.69	0.34	221.72	0.003192	0.78	0.88	3.61	0.43
T2	2862.59	5 Year	DonPhaseII_Final_Proposed	1.18	221.25	221.83	0.49	221.88	0.004003	1.10	1.46	4.60	0.51
T2	2862.59	2 Year	DonPhaseII_Final_Proposed	0.56	221.25	221.69	0.34	221.72	0.003192	0.78	0.88	3.61	0.43
T2	2843.84		Culvert										
T2	2801.94	Regional	DonPhaseII_Final_Baseline	42.34	221.41	226.20	4.74	226.20	0.000062	0.63	186.41	83.70	0.09
T2	2801.94	Regional	DonPhaseII_Final_Proposed	42.34	221.41	226.20	4.74	226.20	0.000062	0.63	186.41	83.70	0.09
T2	2801.94	350 Year	DonPhaseII_Final_Baseline	4.92	221.41	222.10	0.64	222.33	0.012111	2.32	3.27	8.42	0.93
T2	2801.94	350 Year	DonPhaseII_Final_Proposed	4.92	221.41	222.10	0.64	222.33	0.012111	2.32	3.27	8.42	0.93
T2	2801.94	100 Year	DonPhaseII_Final_Baseline	3.20	221.41	221.96	0.50	222.15	0.013097	2.05	2.20	7.08	0.92
T2	2801.94	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	221.41	222.04	0.58	222.26	0.012575	2.22	2.79	7.86	0.93
T2	2801.94	50 Year	DonPhaseII_Final_Baseline	2.70	221.41	221.92	0.45	222.09	0.013522	1.95	1.87	6.53	0.92
T2	2801.94	100 Year	DonPhaseII_Final_Proposed	3.20	221.41	221.96	0.50	222.15	0.013097	2.05	2.20	7.08	0.92
T2	2801.94	25 Year	DonPhaseII_Final_Baseline	2.18	221.41	221.86	0.39	222.02	0.014909	1.86	1.50	5.69	0.95
T2	2801.94	50 Year	DonPhaseII_Final_Proposed	2.70	221.41	221.92	0.45	222.09	0.013522	1.95	1.87	6.53	0.92
T2	2801.94	10 Year	DonPhaseII_Final_Baseline	1.64	221.41	221.79	0.33	221.93	0.015826	1.71	1.17	4.78	0.95
T2	2801.94	25 Year	DonPhaseII_Final_Proposed	2.18	221.41	221.86	0.39	222.02	0.014909	1.86	1.50	5.69	0.95
T2	2801.94	5 Year	DonPhaseII_Final_Baseline	1.18	221.41	221.73	0.27	221.85	0.017311	1.55	0.88	4.32	0.96
T2	2801.94	10 Year	DonPhaseII_Final_Proposed	1.64	221.41	221.79	0.33	221.93	0.015826	1.71	1.17	4.78	0.95
T2	2801.94	2 Year	DonPhaseII_Final_Baseline	0.56	221.41	221.63	0.17	221.70	0.020379	1.22	0.49	3.54	0.96
T2	2801.94	5 Year	DonPhaseII_Final_Proposed	1.18	221.41	221.73	0.27	221.85	0.017311	1.55	0.88	4.32	0.96
T2	2801.94	2 Year	DonPhaseII_Final_Proposed	0.56	221.41	221.63	0.17	221.70	0.020379	1.22	0.49	3.54	0.96
T2	2784.89	Regional	DonPhaseII_Final_Baseline	42.34	220.84	226.20	5.32	226.20	0.000049	0.61	175.88	60.59	0.08
T2	2784.89	Regional	DonPhaseII_Final_Proposed	42.34	220.84	226.20	5.32	226.20	0.000049	0.61	175.88	60.59	0.08
T2	2784.89	350 Year	DonPhaseII_Final_Baseline	4.92	220.84	221.51	0.64	221.76	0.012626	2.38	2.97	7.14	0.95
T2	2784.89	350 Year	DonPhaseII_Final_Proposed	4.92	220.84	221.51	0.64	221.76	0.012626	2.38	2.97	7.14	0.95
T2	2784.89	100 Year	DonPhaseII_Final_Baseline	3.20	220.84	221.36	0.49	221.57	0.013947	2.10	2.01	5.95	0.96
T2	2784.89	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	220.84	221.45	0.58	221.68	0.013103	2.26	2.55	6.64	0.95
T2	2784.89	50 Year	DonPhaseII_Final_Baseline	2.70	220.84	221.32	0.44	221.50	0.014522	2.00	1.73	5.55	0.96
T2	2784.89	100 Year	DonPhaseII_Final_Proposed	3.20	220.84	221.36	0.49	221.57	0.013947	2.10	2.01	5.95	0.96
T2	2784.89	25 Year	DonPhaseII_Final_Baseline	2.18	220.84	221.26	0.39	221.43	0.015378	1.88	1.43	5.08	0.96
T2	2784.89	50 Year	DonPhaseII_Final_Proposed	2.70	220.84	221.32	0.44	221.50	0.014522	2.00	1.73	5.55	0.96
T2	2784.89	10 Year	DonPhaseII_Final_Baseline	1.64	220.84	221.19	0.32	221.34	0.016647	1.73	1.12	4.55	0.97
T2	2784.89	25 Year	DonPhaseII_Final_Proposed	2.18	220.84	221.26	0.39	221.43	0.015378	1.88	1.43	5.08	0.96
T2	2784.89	5 Year	DonPhaseII_Final_Baseline	1.18	220.84	221.13	0.26	221.25	0.018021	1.56	0.86	4.10	0.98
T2	2784.89	10 Year	DonPhaseII_Final_Proposed	1.64	220.84	221.19	0.32	221.34	0.016647	1.73	1.12	4.55	0.97
T2	2784.89	2 Year	DonPhaseII_Final_Baseline	0.56	220.84	221.03	0.16	221.11	0.021680	1.24	0.48	3.43	0.99
T2	2784.89	5 Year	DonPhaseII_Final_Proposed	1.18	220.84	221.13	0.26	221.25	0.018021	1.56	0.86	4.10	0.98
T2	2784.89	2 Year	DonPhaseII_Final_Proposed	0.56	220.84	221.03	0.16	221.11	0.021680	1.24	0.48	3.43	0.99
T2	2774.1	Regional	DonPhaseII_Final_Baseline	42.34	220.35	226.20	5.75	226.20	0.000036	0.54	242.43	94.55	0.07
T2	2774.1	Regional	DonPhaseII_Final_Proposed	42.34	220.35	226.20	5.75	226.20	0.000036	0.54	242.43	94.55	0.07
T2	2774.1	350 Year	DonPhaseII_Final_Baseline	4.92	220.35	221.23	0.79	221.51	0.011352	2.57	2.93	5.97	0.92
T2	2774.1	350 Year	DonPhaseII_Final_Proposed	4.92	220.35	221.23	0.79	221.51	0.011352	2.57	2.93	5.97	0.92
T2	2774.1	100 Year	DonPhaseII_Final_Baseline	3.20	220.35	221.05	0.61	221.29	0.012973	2.31	1.95	4.90	0.94
T2	2774.1	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	220.35	221.17	0.72	221.42	0.011341	2.42	2.56	5.62	0.91
T2	2774.1	50 Year	DonPhaseII_Final_Baseline	2.70	220.35	220.99	0.55	221.21	0.013445	2.19	1.67	4.53	0.95
T2	2774.1	100 Year	DonPhaseII_Final_Proposed	3.20	220.35	221.05	0.61	221.29	0.012973	2.31	1.95	4.90	0.94
T2	2774.1	25 Year	DonPhaseII_Final_Baseline	2.18	220.35	220.92	0.48	221.12	0.014327	2.07	1.37	4.09	0.95
T2	2774.1	50 Year	DonPhaseII_Final_Proposed	2.70	220.35	220.99	0.55	221.21	0.013445	2.19	1.67	4.53	0.95
T2	2774.1	10 Year	DonPhaseII_Final_Baseline	1.64	220.35	220.84	0.40	221.02	0.015224	1.90	1.07	3.70	0.96
T2	2774.1	25 Year	DonPhaseII_Final_Proposed	2.18	220.35	220.92	0.48	221.12	0.014327	2.07	1.37	4.09	0.95
T2	2774.1	5 Year	DonPhaseII_Final_Baseline	1.18	220.35	220.77	0.33	220.91	0.016358	1.72	0.81	3.29	0.96
T2	2774.1	10 Year	DonPhaseII_Final_Proposed	1.64	220.35	220.84	0.40	221.02	0.015224	1.90	1.07	3.70	0.96
T2	2774.1	2 Year	DonPhaseII_Final_Baseline	0.56	220.35	220.64	0.20	220.74	0.020125	1.37	0.44	2.57	0.98
T2	2774.1	5 Year	DonPhaseII_Final_Proposed	1.18	220.35	220.77	0.33	220.91	0.016358	1.72	0.81	3.29	0.96
T2	2774.1	2 Year	DonPhaseII_Final_Proposed	0.56	220.35	220.64	0.20	220.74	0.020125	1.37	0.44	2.57	0.98
T2	2747.07		Culvert										
T2	2714.48	Regional	DonPhaseII_Final_Baseline	42.34	219.63	221.73	1.95	222.58	0.009762	4.30	12.19	82.20	0.98
T2	2714.48	Regional	DonPhaseII_Final_Proposed	42.34	219.63	221.73	1.95	222.58	0.009762	4.30	12.19	82.20	0.98
T2	2714.48	350 Year	DonPhaseII_Final_Baseline	4.92	219.63	220.45	0.67	220.57	0.005394	1.57	3.40	14.47	0.61
T2	2714.48	350 Year	DonPhaseII_Final_Proposed	4.92	219.63	220.45	0.67	220.57	0.005394	1.57	3.40	14.47	0.61
T2	2714.48	100 Year	DonPhaseII_Final_Baseline	3.20	219.63	220.28	0.51	220.37	0.005876	1.37	2.47	5.22	0.61
T2	2714.48	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	219.63	220.37	0.60	220.48	0.005788	1.50	2.97	5.55	0.62
T2	2714.48	50 Year	DonPhaseII_Final_Baseline	2.70	219.63	220.22	0.47	220.31	0.005893	1.30	2.19	5.04	0.60
T2	2714.48	100 Year	DonPhaseII_Final_Proposed	3.20	219.63	220.28	0.51	220.37	0.005876	1.37	2.47	5.22	0.61
T2	2714.48	25 Year	DonPhaseII_Final_Baseline	2.18	219.63	220.16	0.42	220.23	0.005979	1.21	1.87	4.83	0.60
T2	2714.48	50 Year	DonPhaseII_Final_Proposed	2.70	219.63	220.22	0.47	220.31	0.005893	1.30	2.19	5.04	0.60
T2	2714.48	10 Year	DonPhaseII_Final_Baseline	1.64	219.63	220.08	0.36	220.15	0.006186	1.11	1.52	4.58	0.59
T2	2714.48	25 Year	DonPhaseII_Final_Proposed	2.18	219.63	220.16	0.42	220.23	0.005979	1.21	1.87	4.83	0.60
T2	2714.48	5 Year	DonPhaseII_Final_Baseline	1.18	219.63	220.02	0.30	220.07	0.006158	0.99	1.22	4.35	0.58
T2	2714.48	10 Year	DonPhaseII_Final_Proposed	1.64	219.63	220.08	0.36	220.15	0.006186	1.11	1.52	4.58	0.59
T2	2714.48	2 Year	DonPhaseII_Final_Baseline	0.56	219.63	219.91	0.21	219.93	0.005528	0.73	0.77	3.82	0.51
T2	2714.48	5 Year	DonPhaseII_Final_Proposed	1.18	219.63	220.02	0.30	220.07	0.006158	0.99	1.22	4.35	0.58

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	2695.68	350 Year	DonPhaseII_Final_Baseline	4.92	219.54	220.16	0.60	220.39	0.013073	2.33	3.28	30.63	0.96
T2	2695.68	350 Year	DonPhaseII_Final_Proposed	4.92	219.54	220.16	0.60	220.39	0.013073	2.33	3.28	30.63	0.96
T2	2695.68	100 Year	DonPhaseII_Final_Baseline	3.20	219.54	220.06	0.50	220.21	0.010930	1.88	2.50	16.84	0.85
T2	2695.68	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	219.54	220.13	0.57	220.32	0.011191	2.08	3.04	26.75	0.88
T2	2695.68	50 Year	DonPhaseII_Final_Baseline	2.70	219.54	220.02	0.46	220.15	0.010374	1.73	2.24	13.04	0.82
T2	2695.68	100 Year	DonPhaseII_Final_Proposed	3.20	219.54	220.06	0.50	220.21	0.010930	1.88	2.50	16.84	0.85
T2	2695.68	25 Year	DonPhaseII_Final_Baseline	2.18	219.54	219.98	0.42	220.09	0.009241	1.55	1.99	11.69	0.76
T2	2695.68	50 Year	DonPhaseII_Final_Proposed	2.70	219.54	220.02	0.46	220.15	0.010374	1.73	2.24	13.04	0.82
T2	2695.68	10 Year	DonPhaseII_Final_Baseline	1.64	219.54	219.97	0.41	220.04	0.005739	1.20	1.92	11.25	0.60
T2	2695.68	25 Year	DonPhaseII_Final_Proposed	2.18	219.54	219.98	0.42	220.09	0.009241	1.55	1.99	11.69	0.76
T2	2695.68	5 Year	DonPhaseII_Final_Baseline	1.18	219.54	219.90	0.34	219.95	0.005791	1.06	1.50	8.37	0.58
T2	2695.68	10 Year	DonPhaseII_Final_Proposed	1.64	219.54	219.97	0.41	220.04	0.005739	1.20	1.92	11.25	0.60
T2	2695.68	2 Year	DonPhaseII_Final_Baseline	0.56	219.54	219.76	0.20	219.80	0.008947	0.92	0.74	4.82	0.66
T2	2695.68	5 Year	DonPhaseII_Final_Proposed	1.18	219.54	219.90	0.34	219.95	0.005791	1.06	1.50	8.37	0.58
T2	2695.68	2 Year	DonPhaseII_Final_Proposed	0.56	219.54	219.76	0.20	219.80	0.008947	0.92	0.74	4.82	0.66
T2	2620.51	Regional	DonPhaseII_Final_Baseline	42.34	218.93	221.02	2.00	221.04	0.000634	1.14	90.71	64.95	0.26
T2	2620.51	Regional	DonPhaseII_Final_Proposed	42.34	218.93	221.02	2.00	221.04	0.000634	1.14	90.71	64.95	0.26
T2	2620.51	350 Year	DonPhaseII_Final_Baseline	4.92	218.93	219.54	0.51	219.64	0.008057	1.64	5.87	31.54	0.73
T2	2620.51	350 Year	DonPhaseII_Final_Proposed	4.92	218.93	219.54	0.51	219.64	0.008057	1.64	5.87	31.54	0.73
T2	2620.51	100 Year	DonPhaseII_Final_Baseline	3.20	218.93	219.45	0.43	219.54	0.007691	1.42	3.67	22.38	0.69
T2	2620.51	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	218.93	219.49	0.47	219.60	0.008625	1.60	4.64	26.52	0.74
T2	2620.51	50 Year	DonPhaseII_Final_Baseline	2.70	218.93	219.42	0.40	219.51	0.007510	1.34	3.04	20.44	0.68
T2	2620.51	100 Year	DonPhaseII_Final_Proposed	3.20	218.93	219.45	0.43	219.54	0.007691	1.42	3.67	22.38	0.69
T2	2620.51	25 Year	DonPhaseII_Final_Baseline	2.18	218.93	219.38	0.35	219.46	0.008045	1.28	2.22	14.88	0.69
T2	2620.51	50 Year	DonPhaseII_Final_Proposed	2.70	218.93	219.42	0.40	219.51	0.007510	1.34	3.04	20.44	0.68
T2	2620.51	10 Year	DonPhaseII_Final_Baseline	1.64	218.93	219.27	0.25	219.38	0.016017	1.43	1.19	5.26	0.91
T2	2620.51	25 Year	DonPhaseII_Final_Proposed	2.18	218.93	219.38	0.35	219.46	0.008045	1.28	2.22	14.88	0.69
T2	2620.51	5 Year	DonPhaseII_Final_Baseline	1.18	218.93	219.23	0.21	219.31	0.014741	1.22	0.98	5.05	0.85
T2	2620.51	10 Year	DonPhaseII_Final_Proposed	1.64	218.93	219.27	0.25	219.38	0.016017	1.43	1.19	5.26	0.91
T2	2620.51	2 Year	DonPhaseII_Final_Baseline	0.56	218.93	219.19	0.17	219.22	0.006874	0.72	0.78	4.83	0.56
T2	2620.51	5 Year	DonPhaseII_Final_Proposed	1.18	218.93	219.23	0.21	219.31	0.014741	1.22	0.98	5.05	0.85
T2	2620.51	2 Year	DonPhaseII_Final_Proposed	0.56	218.93	219.19	0.17	219.22	0.006874	0.72	0.78	4.83	0.56
T2	2500.02	Regional	DonPhaseII_Final_Baseline	42.34	218.05	221.02	2.95	221.02	0.000086	0.55	206.91	93.97	0.10
T2	2500.02	Regional	DonPhaseII_Final_Proposed	42.34	218.05	221.02	2.95	221.02	0.000086	0.55	206.91	93.97	0.10
T2	2500.02	350 Year	DonPhaseII_Final_Baseline	4.92	218.05	218.54	0.48	218.63	0.012580	1.96	7.25	38.28	0.90
T2	2500.02	350 Year	DonPhaseII_Final_Proposed	4.92	218.05	218.54	0.48	218.63	0.012580	1.96	7.25	38.28	0.90
T2	2500.02	100 Year	DonPhaseII_Final_Baseline	3.20	218.05	218.44	0.38	218.51	0.012963	1.71	4.23	21.92	0.88
T2	2500.02	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	218.05	218.51	0.45	218.58	0.011293	1.77	6.12	34.82	0.85
T2	2500.02	50 Year	DonPhaseII_Final_Baseline	2.70	218.05	218.41	0.35	218.48	0.013068	1.62	3.62	18.47	0.87
T2	2500.02	100 Year	DonPhaseII_Final_Proposed	3.20	218.05	218.44	0.38	218.51	0.012963	1.71	4.23	21.92	0.88
T2	2500.02	25 Year	DonPhaseII_Final_Baseline	2.18	218.05	218.39	0.33	218.44	0.011285	1.44	3.20	17.30	0.80
T2	2500.02	50 Year	DonPhaseII_Final_Proposed	2.70	218.05	218.41	0.35	218.48	0.013068	1.62	3.62	18.47	0.87
T2	2500.02	10 Year	DonPhaseII_Final_Baseline	1.64	218.05	218.40	0.34	218.43	0.005361	1.02	3.46	18.05	0.56
T2	2500.02	25 Year	DonPhaseII_Final_Proposed	2.18	218.05	218.39	0.33	218.44	0.011285	1.44	3.20	17.30	0.80
T2	2500.02	5 Year	DonPhaseII_Final_Baseline	1.18	218.05	218.35	0.29	218.37	0.005540	0.92	2.58	12.70	0.55
T2	2500.02	10 Year	DonPhaseII_Final_Proposed	1.64	218.05	218.40	0.34	218.43	0.005361	1.02	3.46	18.05	0.56
T2	2500.02	2 Year	DonPhaseII_Final_Baseline	0.56	218.05	218.22	0.16	218.24	0.011972	0.90	1.14	9.91	0.73
T2	2500.02	5 Year	DonPhaseII_Final_Proposed	1.18	218.05	218.35	0.29	218.37	0.005540	0.92	2.58	12.70	0.55
T2	2500.02	2 Year	DonPhaseII_Final_Proposed	0.56	218.05	218.22	0.16	218.24	0.011972	0.90	1.14	9.91	0.73
T2	2399.99	Regional	DonPhaseII_Final_Baseline	42.34	217.10	221.02	3.89	221.02	0.000025	0.35	321.32	111.68	0.06
T2	2399.99	Regional	DonPhaseII_Final_Proposed	42.34	217.10	221.02	3.89	221.02	0.000025	0.35	321.32	111.68	0.06
T2	2399.99	350 Year	DonPhaseII_Final_Baseline	4.92	217.10	217.78	0.65	217.85	0.007383	1.84	9.67	53.78	0.73
T2	2399.99	350 Year	DonPhaseII_Final_Proposed	4.92	217.10	217.78	0.65	217.85	0.007383	1.84	9.67	53.78	0.73
T2	2399.99	100 Year	DonPhaseII_Final_Baseline	3.20	217.10	217.72	0.59	217.79	0.006362	1.60	6.73	45.53	0.67
T2	2399.99	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	217.10	217.74	0.62	217.82	0.007650	1.81	8.01	47.89	0.73
T2	2399.99	50 Year	DonPhaseII_Final_Baseline	2.70	217.10	217.70	0.57	217.76	0.006047	1.52	5.82	42.29	0.64
T2	2399.99	100 Year	DonPhaseII_Final_Proposed	3.20	217.10	217.72	0.59	217.79	0.006362	1.60	6.73	45.53	0.67
T2	2399.99	25 Year	DonPhaseII_Final_Baseline	2.18	217.10	217.66	0.53	217.73	0.006487	1.50	4.28	37.05	0.66
T2	2399.99	50 Year	DonPhaseII_Final_Proposed	2.70	217.10	217.70	0.57	217.76	0.006047	1.52	5.82	42.29	0.64
T2	2399.99	10 Year	DonPhaseII_Final_Baseline	1.64	217.10	217.52	0.39	217.68	0.015744	1.92	1.29	4.88	0.98
T2	2399.99	25 Year	DonPhaseII_Final_Proposed	2.18	217.10	217.66	0.53	217.73	0.006487	1.50	4.28	37.05	0.66
T2	2399.99	5 Year	DonPhaseII_Final_Baseline	1.18	217.10	217.45	0.32	217.58	0.016598	1.74	0.97	4.32	0.97
T2	2399.99	10 Year	DonPhaseII_Final_Proposed	1.64	217.10	217.52	0.39	217.68	0.015744	1.92	1.29	4.88	0.98
T2	2399.99	2 Year	DonPhaseII_Final_Baseline	0.56	217.10	217.40	0.27	217.45	0.007151	1.01	0.75	3.89	0.62
T2	2399.99	5 Year	DonPhaseII_Final_Proposed	1.18	217.10	217.45	0.32	217.58	0.016598	1.74	0.97	4.32	0.97
T2	2399.99	2 Year	DonPhaseII_Final_Proposed	0.56	217.10	217.40	0.27	217.45	0.007151	1.01	0.75	3.89	0.62
T2	2299.04	Regional	DonPhaseII_Final_Baseline	42.34	216.28	221.01	4.69	221.02	0.000008	0.23	322.26	94.32	0.03
T2	2299.04	Regional	DonPhaseII_Final_Proposed	42.34	216.28	221.01	4.69	221.02	0.000008	0.23	322.26	94.32	0.03
T2	2299.04	350 Year	DonPhaseII_Final_Baseline	4.92	216.28	217.45	1.13	217.46	0.000078	0.27	31.64	57.31	0.08
T2	2299.04	350 Year	DonPhaseII_Final_Proposed	4.92	216.28	217.45	1.13	217.46	0.000078	0.27	31.64	57.31	0.08
T2	2299.04	100 Year	DonPhaseII_Final_Baseline	3.20	216.28	216.85	0.53	216.92	0.006986	1.56	4.23	28.70	0.68
T2	2299.04	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	216.28	216.89	0.57	216.96	0.006883	1.62	5.34	30.98	0.69
T2	2299.04	50 Year	DonPhaseII_Final_Baseline	2.70	216.28	216.83	0.51	216.90	0.006636	1.48	3.66	25.59	0.66
T2	2299.04	100 Year	DonPhaseII_Final_Proposed	3.20	216.28	216.85	0.53	216.92	0.006986	1.56	4.23	28.70	0.68
T2	2299.04	25 Year	DonPhaseII_Final_Baseline	2.18	216.28	216.83	0.51	216.88	0.004537	1.22	3.58	25.19	0.55
T2	2299.04	50 Year	DonPhaseII_Final_Proposed	2.70	216.28	216.83	0.51	216.90	0.006636	1.48	3.66	25.59	0.66
T2	2299.04	10 Year	DonPhaseII_Final_Baseline	1.64	216.28	216.80	0.48	216.84	0.003894	1.09	2.91	22.39	0.50
T2	2299.04	25 Year	DonPhaseII_Final_Proposed	2.18	216.28	216.83	0.51	216.88	0.004537	1.22	3.58	25.19	0.55
T2	2299.04	5 Year	DonPhaseII_Final_Baseline	1.18	216.28	216.75	0.43	216.79	0.003977	1.02	1.97	15.32	0.50
T2	2299.04	10 Year	DonPhaseII_Final_Proposed	1.64	216.28	216.80	0.48	216.84	0.003894	1.09	2.91	22.39	0.50
T2	2299.04	2 Year	DonPhaseII_Final_Baseline	0.56	216.28	216.57	0.24	216.62	0.009795	1.09	0.60	3.22	0.71
T2	2299.04	5 Year	DonPhaseII_Final_Proposed	1.18	216.28	216.75	0.43	216.79	0.003977	1.02	1.97	15.32	0.50
T2	2299.04	2 Year	DonPhaseII_Final_Proposed	0.56	216.28	216.57	0.24	216.62	0.009795	1.09	0.60	3.22	0.71
T2	2200	Regional	DonPhaseII_Final_Baseline	42.34	215.59	221.01	5.32	221.01	0.000010	0.28	374.62	89.51	0.04
T2	2200	Regional	DonPhaseII_Final_Proposed	42.34	215.59	221.01	5.32	221					

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	2200	50 Year	DonPhaseII_Final_Proposed	2.70	215.59	216.20	0.50	216.29	0.007057	1.48	3.97	32.85	0.67
T2	2200	10 Year	DonPhaseII_Final_Baseline	1.64	215.59	216.01	0.32	216.16	0.017405	1.73	1.02	4.34	0.98
T2	2200	25 Year	DonPhaseII_Final_Proposed	2.18	215.59	216.11	0.42	216.25	0.011344	1.67	1.85	15.58	0.82
T2	2200	5 Year	DonPhaseII_Final_Baseline	1.18	215.59	215.95	0.26	216.07	0.019191	1.58	0.78	3.35	0.99
T2	2200	10 Year	DonPhaseII_Final_Proposed	1.64	215.59	216.01	0.32	216.16	0.017405	1.73	1.02	4.34	0.98
T2	2200	2 Year	DonPhaseII_Final_Baseline	0.56	215.59	215.94	0.25	215.97	0.004787	0.77	0.75	3.30	0.49
T2	2200	5 Year	DonPhaseII_Final_Proposed	1.18	215.59	215.95	0.26	216.07	0.019191	1.58	0.78	3.35	0.99
T2	2200	2 Year	DonPhaseII_Final_Proposed	0.56	215.59	215.94	0.25	215.97	0.004787	0.77	0.75	3.30	0.49
T2	2097.88	Regional	DonPhaseII_Final_Baseline	42.34	214.89	221.01	5.96	221.01	0.000019	0.41	276.36	77.99	0.05
T2	2097.88	Regional	DonPhaseII_Final_Proposed	42.34	214.89	221.01	5.96	221.01	0.000019	0.41	276.36	77.99	0.05
T2	2097.88	350 Year	DonPhaseII_Final_Baseline	4.92	214.89	217.45	2.40	217.45	0.000014	0.19	60.40	43.32	0.04
T2	2097.88	350 Year	DonPhaseII_Final_Proposed	4.92	214.89	217.45	2.40	217.45	0.000014	0.19	60.40	43.32	0.04
T2	2097.88	100 Year	DonPhaseII_Final_Baseline	3.20	214.89	216.16	1.10	216.16	0.000222	0.45	13.70	28.04	0.14
T2	2097.88	1.3*100 Year	DonPhaseII_Final_Proposed	4.16	214.89	216.67	1.62	216.68	0.000061	0.30	30.10	34.94	0.08
T2	2097.88	50 Year	DonPhaseII_Final_Baseline	2.70	214.89	215.91	0.86	215.92	0.000457	0.54	7.81	18.35	0.19
T2	2097.88	100 Year	DonPhaseII_Final_Proposed	3.20	214.89	216.16	1.10	216.16	0.000222	0.45	13.70	28.04	0.14
T2	2097.88	25 Year	DonPhaseII_Final_Baseline	2.18	214.89	215.70	0.65	215.72	0.000914	0.64	4.42	13.85	0.25
T2	2097.88	50 Year	DonPhaseII_Final_Proposed	2.70	214.89	215.91	0.86	215.92	0.000457	0.54	7.81	18.35	0.19
T2	2097.88	10 Year	DonPhaseII_Final_Baseline	1.64	214.89	215.50	0.45	215.52	0.001823	0.71	2.62	6.84	0.34
T2	2097.88	25 Year	DonPhaseII_Final_Proposed	2.18	214.89	215.70	0.65	215.72	0.000914	0.64	4.42	13.85	0.25
T2	2097.88	5 Year	DonPhaseII_Final_Baseline	1.18	214.89	215.34	0.34	215.37	0.003164	0.78	1.65	5.55	0.42
T2	2097.88	10 Year	DonPhaseII_Final_Proposed	1.64	214.89	215.50	0.45	215.52	0.001823	0.71	2.62	6.84	0.34
T2	2097.88	2 Year	DonPhaseII_Final_Baseline	0.56	214.89	215.10	0.16	215.16	0.015469	1.02	0.55	3.69	0.83
T2	2097.88	5 Year	DonPhaseII_Final_Proposed	1.18	214.89	215.34	0.34	215.37	0.003164	0.78	1.65	5.55	0.42
T2	2097.88	2 Year	DonPhaseII_Final_Proposed	0.56	214.89	215.10	0.16	215.16	0.015469	1.02	0.55	3.69	0.83
T2	2088.06	Regional	DonPhaseII_Final_Baseline	47.47	214.45	221.00	6.15	221.01	0.000057	0.68	207.18	70.41	0.09
T2	2088.06	Regional	DonPhaseII_Final_Proposed	47.47	214.45	221.00	6.15	221.01	0.000057	0.68	207.18	70.41	0.09
T2	2088.06	350 Year	DonPhaseII_Final_Baseline	6.08	214.45	217.44	2.59	217.45	0.000100	0.50	23.64	26.23	0.10
T2	2088.06	350 Year	DonPhaseII_Final_Proposed	6.08	214.45	217.44	2.59	217.45	0.000100	0.50	23.64	26.23	0.10
T2	2088.06	100 Year	DonPhaseII_Final_Baseline	3.62	214.45	216.12	1.27	216.15	0.000708	0.83	6.28	8.46	0.24
T2	2088.06	1.3*100 Year	DonPhaseII_Final_Proposed	4.71	214.45	216.65	1.80	216.67	0.000296	0.68	12.11	15.52	0.16
T2	2088.06	50 Year	DonPhaseII_Final_Baseline	2.91	214.45	215.88	1.02	215.91	0.001019	0.87	4.42	6.65	0.27
T2	2088.06	100 Year	DonPhaseII_Final_Proposed	3.62	214.45	216.12	1.27	216.15	0.000708	0.83	6.28	8.46	0.24
T2	2088.06	25 Year	DonPhaseII_Final_Baseline	2.22	214.45	215.67	0.81	215.70	0.001356	0.86	3.16	5.33	0.30
T2	2088.06	50 Year	DonPhaseII_Final_Proposed	2.91	214.45	215.88	1.02	215.91	0.001019	0.87	4.42	6.65	0.27
T2	2088.06	10 Year	DonPhaseII_Final_Baseline	1.60	214.45	215.47	0.62	215.50	0.001782	0.83	2.24	4.11	0.33
T2	2088.06	25 Year	DonPhaseII_Final_Proposed	2.22	214.45	215.67	0.81	215.70	0.001356	0.86	3.16	5.33	0.30
T2	2088.06	5 Year	DonPhaseII_Final_Baseline	1.15	214.45	215.32	0.54	215.35	0.001974	0.79	1.66	3.52	0.34
T2	2088.06	10 Year	DonPhaseII_Final_Proposed	1.60	214.45	215.47	0.62	215.50	0.001782	0.83	2.24	4.11	0.33
T2	2088.06	2 Year	DonPhaseII_Final_Baseline	0.56	214.45	215.07	0.39	215.10	0.002174	0.67	0.91	2.65	0.34
T2	2088.06	5 Year	DonPhaseII_Final_Proposed	1.15	214.45	215.32	0.54	215.35	0.001974	0.79	1.66	3.52	0.34
T2	2088.06	2 Year	DonPhaseII_Final_Proposed	0.56	214.45	215.07	0.39	215.10	0.002174	0.67	0.91	2.65	0.34
T2	2068.48		Culvert										
T2	2048.15	Regional	DonPhaseII_Final_Baseline	47.47	214.44	217.67	2.67	218.40	0.008334	4.34	19.10	15.63	0.85
T2	2048.15	Regional	DonPhaseII_Final_Proposed	47.47	214.44	217.67	2.67	218.40	0.008334	4.34	19.10	15.63	0.85
T2	2048.15	350 Year	DonPhaseII_Final_Baseline	6.08	214.44	215.74	0.75	216.10	0.017215	2.68	2.34	3.43	0.99
T2	2048.15	350 Year	DonPhaseII_Final_Proposed	6.08	214.44	215.74	0.75	216.10	0.017215	2.68	2.34	3.43	0.99
T2	2048.15	100 Year	DonPhaseII_Final_Baseline	3.62	214.44	215.49	0.57	215.77	0.019009	2.35	1.55	2.83	0.99
T2	2048.15	1.3*100 Year	DonPhaseII_Final_Proposed	4.71	214.44	215.61	0.66	215.93	0.018115	2.52	1.90	3.11	0.99
T2	2048.15	50 Year	DonPhaseII_Final_Baseline	2.91	214.44	215.40	0.51	215.65	0.019908	2.23	1.31	2.62	1.00
T2	2048.15	100 Year	DonPhaseII_Final_Proposed	3.62	214.44	215.49	0.57	215.77	0.019009	2.35	1.55	2.83	0.99
T2	2048.15	25 Year	DonPhaseII_Final_Baseline	2.22	214.44	215.30	0.44	215.52	0.021469	2.11	1.05	2.37	1.01
T2	2048.15	50 Year	DonPhaseII_Final_Proposed	2.91	214.44	215.40	0.51	215.65	0.019908	2.23	1.31	2.62	1.00
T2	2048.15	10 Year	DonPhaseII_Final_Baseline	1.60	214.44	215.19	0.39	215.39	0.021860	1.95	0.82	2.12	1.00
T2	2048.15	25 Year	DonPhaseII_Final_Proposed	2.22	214.44	215.30	0.44	215.52	0.021469	2.11	1.05	2.37	1.01
T2	2048.15	5 Year	DonPhaseII_Final_Baseline	1.15	214.44	215.10	0.33	215.27	0.023121	1.83	0.63	1.88	1.01
T2	2048.15	10 Year	DonPhaseII_Final_Proposed	1.60	214.44	215.19	0.39	215.39	0.021860	1.95	0.82	2.12	1.00
T2	2048.15	2 Year	DonPhaseII_Final_Baseline	0.56	214.44	214.94	0.25	215.06	0.024628	1.56	0.36	1.45	1.00
T2	2048.15	5 Year	DonPhaseII_Final_Proposed	1.15	214.44	215.10	0.33	215.27	0.023121	1.83	0.63	1.88	1.01
T2	2048.15	2 Year	DonPhaseII_Final_Proposed	0.56	214.44	214.94	0.25	215.06	0.024628	1.56	0.36	1.45	1.00
T2	2032.78	Regional	DonPhaseII_Final_Baseline	47.47	213.94	215.63	1.64	215.98	0.009998	3.95	33.48	43.75	0.99
T2	2032.78	Regional	DonPhaseII_Final_Proposed	47.47	213.94	215.63	1.64	215.98	0.009998	3.95	33.48	43.75	0.99
T2	2032.78	350 Year	DonPhaseII_Final_Baseline	6.08	213.94	214.76	0.77	214.96	0.008623	2.21	4.97	17.33	0.81
T2	2032.78	350 Year	DonPhaseII_Final_Proposed	6.08	213.94	214.76	0.77	214.96	0.008623	2.21	4.97	17.33	0.81
T2	2032.78	100 Year	DonPhaseII_Final_Baseline	3.62	213.94	214.53	0.54	214.73	0.011827	2.06	2.32	6.64	0.89
T2	2032.78	1.3*100 Year	DonPhaseII_Final_Proposed	4.71	213.94	214.57	0.58	214.85	0.015265	2.45	2.61	7.07	1.03
T2	2032.78	50 Year	DonPhaseII_Final_Baseline	2.91	213.94	214.49	0.50	214.65	0.010108	1.81	2.07	6.19	0.81
T2	2032.78	100 Year	DonPhaseII_Final_Proposed	3.62	213.94	214.53	0.54	214.73	0.011827	2.06	2.32	6.64	0.89
T2	2032.78	25 Year	DonPhaseII_Final_Baseline	2.22	213.94	214.42	0.43	214.55	0.010627	1.66	1.62	5.32	0.81
T2	2032.78	50 Year	DonPhaseII_Final_Proposed	2.91	213.94	214.49	0.50	214.65	0.010108	1.81	2.07	6.19	0.81
T2	2032.78	10 Year	DonPhaseII_Final_Baseline	1.60	213.94	214.37	0.38	214.46	0.008392	1.36	1.38	4.88	0.71
T2	2032.78	25 Year	DonPhaseII_Final_Proposed	2.22	213.94	214.42	0.43	214.55	0.010627	1.66	1.62	5.32	0.81
T2	2032.78	5 Year	DonPhaseII_Final_Baseline	1.15	213.94	214.30	0.31	214.37	0.008678	1.21	1.07	4.38	0.70
T2	2032.78	10 Year	DonPhaseII_Final_Proposed	1.60	213.94	214.37	0.38	214.46	0.008392	1.36	1.38	4.88	0.71
T2	2032.78	2 Year	DonPhaseII_Final_Baseline	0.56	213.94	214.20	0.21	214.24	0.008089	0.90	0.66	3.66	0.63
T2	2032.78	5 Year	DonPhaseII_Final_Proposed	1.15	213.94	214.30	0.31	214.37	0.008678	1.21	1.07	4.38	0.70
T2	2032.78	2 Year	DonPhaseII_Final_Proposed	0.56	213.94	214.20	0.21	214.24	0.008089	0.90	0.66	3.66	0.63
T2	2001.76	Regional	DonPhaseII_Final_Baseline	47.47	213.70	214.99	1.25	215.26	0.016859	4.29	32.54	50.04	1.23
T2	2001.76	Regional	DonPhaseII_Final_Proposed	47.47	213.70	214.99	1.25	215.26	0.016859	4.29	32.54	50.04	1.23
T2	2001.76	350 Year	DonPhaseII_Final_Baseline	6.08	213.70	214.43	0.68	214.54	0.008906	2.09	8.32	33.09	0.81
T2	2001.76	350 Year	DonPhaseII_Final_Proposed	6.08	213.70	214.43	0.68	214.54	0.008906	2.09	8.32	33.09	0.81
T2	2001.76	100 Year	DonPhaseII_Final_Baseline	3.62	213.70	214.34	0.59	214.43	0.007769	1.77	5.44	28.64	0.74
T2	2001.76	1.3*100 Year	DonPhaseII_Final_Proposed	4.71	213.70	214.39	0.65	214.48	0.007723	1.87	7.06	32.04	0.74
T2	2001.76	50 Year	DonPhaseII_Final_Baseline	2.91	213.70	214.30	0.55	214.38	0.007337	1.64	4.38	24.08	0.71
T2	2001.76	100 Year	DonPhaseII_Final_Proposed	3.62	213.70	214.34	0.59	214.43	0.007769	1.77	5.44	28.64	0.74
T2	2001.76	25 Year	DonPhaseII_Final_Baseline	2.22	213.70								

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m ³ /s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m ²)	Top Width (m)	Froude # Chl
T2	2001.76	2 Year	DonPhaseII_Final_Baseline	0.56	213.70	214.02	0.28	214.05	0.004798	0.84	1.02	6.71	0.51
T2	2001.76	5 Year	DonPhaseII_Final_Proposed	1.15	213.70	214.17	0.43	214.20	0.003630	0.97	2.27	10.50	0.48
T2	2001.76	2 Year	DonPhaseII_Final_Proposed	0.56	213.70	214.02	0.28	214.05	0.004798	0.84	1.02	6.71	0.51
T2	1896.4	Regional	DonPhaseII_Final_Baseline	47.47	213.13	214.75	1.58	214.79	0.002015	1.73	66.93	74.68	0.44
T2	1896.4	Regional	DonPhaseII_Final_Proposed	47.47	213.13	214.75	1.58	214.79	0.002015	1.73	66.93	74.68	0.44
T2	1896.4	350 Year	DonPhaseII_Final_Baseline	6.08	213.13	213.85	0.68	213.90	0.004762	1.51	11.33	41.91	0.59
T2	1896.4	350 Year	DonPhaseII_Final_Proposed	6.08	213.13	213.85	0.68	213.90	0.004762	1.51	11.33	41.91	0.59
T2	1896.4	100 Year	DonPhaseII_Final_Baseline	3.62	213.13	213.73	0.55	213.80	0.007510	1.66	6.34	37.06	0.71
T2	1896.4	1.3*100 Year	DonPhaseII_Final_Proposed	4.71	213.13	213.76	0.58	213.84	0.008550	1.83	7.48	38.45	0.77
T2	1896.4	50 Year	DonPhaseII_Final_Baseline	2.91	213.13	213.70	0.53	213.77	0.006969	1.55	5.42	36.08	0.68
T2	1896.4	100 Year	DonPhaseII_Final_Proposed	3.62	213.13	213.73	0.55	213.80	0.007510	1.66	6.34	37.06	0.71
T2	1896.4	25 Year	DonPhaseII_Final_Baseline	2.22	213.13	213.55	0.37	213.71	0.019408	2.06	1.90	7.73	1.08
T2	1896.4	50 Year	DonPhaseII_Final_Proposed	2.91	213.13	213.70	0.53	213.77	0.006969	1.55	5.42	36.08	0.68
T2	1896.4	10 Year	DonPhaseII_Final_Baseline	1.60	213.13	213.50	0.32	213.62	0.018352	1.80	1.50	6.85	1.02
T2	1896.4	25 Year	DonPhaseII_Final_Proposed	2.22	213.13	213.55	0.37	213.71	0.019408	2.06	1.90	7.73	1.08
T2	1896.4	5 Year	DonPhaseII_Final_Baseline	1.15	213.13	213.44	0.27	213.54	0.018995	1.62	1.15	6.20	1.00
T2	1896.4	10 Year	DonPhaseII_Final_Proposed	1.60	213.13	213.50	0.32	213.62	0.018352	1.80	1.50	6.85	1.02
T2	1896.4	2 Year	DonPhaseII_Final_Baseline	0.56	213.13	213.40	0.22	213.44	0.008736	0.98	0.89	5.74	0.66
T2	1896.4	5 Year	DonPhaseII_Final_Proposed	1.15	213.13	213.44	0.27	213.54	0.018995	1.62	1.15	6.20	1.00
T2	1896.4	2 Year	DonPhaseII_Final_Proposed	0.56	213.13	213.40	0.22	213.44	0.008736	0.98	0.89	5.74	0.66
T2	1800	Regional	DonPhaseII_Final_Baseline	47.47	212.48	214.67	2.08	214.69	0.001079	1.50	87.84	67.12	0.33
T2	1800	Regional	DonPhaseII_Final_Proposed	47.47	212.48	214.67	2.08	214.69	0.001079	1.50	87.84	67.12	0.33
T2	1800	350 Year	DonPhaseII_Final_Baseline	6.08	212.48	213.85	1.26	213.85	0.000169	0.43	38.67	48.78	0.12
T2	1800	350 Year	DonPhaseII_Final_Proposed	6.08	212.48	213.85	1.26	213.85	0.000169	0.43	38.67	48.78	0.12
T2	1800	100 Year	DonPhaseII_Final_Baseline	3.62	212.48	213.59	1.01	213.60	0.000168	0.37	26.99	43.75	0.12
T2	1800	1.3*100 Year	DonPhaseII_Final_Proposed	4.71	212.48	213.71	1.12	213.71	0.000170	0.40	32.16	45.64	0.12
T2	1800	50 Year	DonPhaseII_Final_Baseline	2.91	212.48	213.51	0.92	213.51	0.000166	0.34	23.35	42.49	0.11
T2	1800	100 Year	DonPhaseII_Final_Proposed	3.62	212.48	213.59	1.01	213.60	0.000168	0.37	26.99	43.75	0.12
T2	1800	25 Year	DonPhaseII_Final_Baseline	2.22	212.48	213.42	0.84	213.42	0.000160	0.32	19.62	41.11	0.11
T2	1800	50 Year	DonPhaseII_Final_Proposed	2.91	212.48	213.51	0.92	213.51	0.000166	0.34	23.35	42.49	0.11
T2	1800	10 Year	DonPhaseII_Final_Baseline	1.60	212.48	213.33	0.74	213.33	0.000155	0.29	15.79	39.34	0.11
T2	1800	25 Year	DonPhaseII_Final_Proposed	2.22	212.48	213.42	0.84	213.42	0.000160	0.32	19.62	41.11	0.11
T2	1800	5 Year	DonPhaseII_Final_Baseline	1.15	212.48	213.24	0.66	213.24	0.000154	0.26	12.59	38.27	0.10
T2	1800	10 Year	DonPhaseII_Final_Proposed	1.60	212.48	213.33	0.74	213.33	0.000155	0.29	15.79	39.34	0.11
T2	1800	2 Year	DonPhaseII_Final_Baseline	0.56	212.48	212.90	0.31	212.92	0.003949	0.81	1.33	19.93	0.46
T2	1800	5 Year	DonPhaseII_Final_Proposed	1.15	212.48	213.24	0.66	213.24	0.000154	0.26	12.59	38.27	0.10
T2	1800	2 Year	DonPhaseII_Final_Proposed	0.56	212.48	212.90	0.31	212.92	0.003949	0.81	1.33	19.93	0.46
T2	1728.96	Regional	DonPhaseII_Final_Baseline	47.47	212.17	214.65	2.34	214.66	0.000294	0.86	130.75	73.84	0.18
T2	1728.96	Regional	DonPhaseII_Final_Proposed	47.47	212.17	214.65	2.34	214.66	0.000294	0.86	130.75	73.84	0.18
T2	1728.96	350 Year	DonPhaseII_Final_Baseline	6.08	212.17	213.85	1.54	213.85	0.000023	0.18	75.31	61.08	0.05
T2	1728.96	350 Year	DonPhaseII_Final_Proposed	6.08	212.17	213.85	1.54	213.85	0.000023	0.18	75.31	61.08	0.05
T2	1728.96	100 Year	DonPhaseII_Final_Baseline	3.62	212.17	213.59	1.29	213.59	0.000016	0.14	60.07	59.60	0.04
T2	1728.96	1.3*100 Year	DonPhaseII_Final_Proposed	4.71	212.17	213.71	1.40	213.71	0.000020	0.16	66.99	60.18	0.04
T2	1728.96	50 Year	DonPhaseII_Final_Baseline	2.91	212.17	213.51	1.20	213.51	0.000014	0.12	55.07	59.16	0.03
T2	1728.96	100 Year	DonPhaseII_Final_Proposed	3.62	212.17	213.59	1.29	213.59	0.000016	0.14	60.07	59.60	0.04
T2	1728.96	25 Year	DonPhaseII_Final_Baseline	2.22	212.17	213.42	1.11	213.42	0.000011	0.10	49.82	58.68	0.03
T2	1728.96	50 Year	DonPhaseII_Final_Proposed	2.91	212.17	213.51	1.20	213.51	0.000014	0.12	55.07	59.16	0.03
T2	1728.96	10 Year	DonPhaseII_Final_Baseline	1.60	212.17	213.33	1.02	213.33	0.000008	0.08	44.28	58.16	0.03
T2	1728.96	25 Year	DonPhaseII_Final_Proposed	2.22	212.17	213.42	1.11	213.42	0.000011	0.10	49.82	58.68	0.03
T2	1728.96	5 Year	DonPhaseII_Final_Baseline	1.15	212.17	213.24	0.94	213.24	0.000006	0.07	39.51	57.71	0.02
T2	1728.96	10 Year	DonPhaseII_Final_Proposed	1.60	212.17	213.33	1.02	213.33	0.000008	0.08	44.28	58.16	0.03
T2	1728.96	2 Year	DonPhaseII_Final_Baseline	0.56	212.17	212.91	0.61	212.91	0.000010	0.06	20.83	55.60	0.03
T2	1728.96	5 Year	DonPhaseII_Final_Proposed	1.15	212.17	213.24	0.94	213.24	0.000006	0.07	39.51	57.71	0.02
T2	1728.96	2 Year	DonPhaseII_Final_Proposed	0.56	212.17	212.91	0.61	212.91	0.000010	0.06	20.83	55.60	0.03
T2	1677.64	Regional	DonPhaseII_Final_Baseline	47.47	211.68	214.64	2.67	214.65	0.000323	0.87	142.16	98.69	0.17
T2	1677.64	Regional	DonPhaseII_Final_Proposed	47.47	211.68	214.64	2.67	214.65	0.000323	0.87	142.16	98.69	0.17
T2	1677.64	350 Year	DonPhaseII_Final_Baseline	6.08	211.68	213.85	1.88	213.85	0.000022	0.18	80.44	67.81	0.04
T2	1677.64	350 Year	DonPhaseII_Final_Proposed	6.08	211.68	213.85	1.88	213.85	0.000022	0.18	80.44	67.81	0.04
T2	1677.64	100 Year	DonPhaseII_Final_Baseline	3.62	211.68	213.59	1.62	213.59	0.000015	0.14	63.71	64.34	0.03
T2	1677.64	1.3*100 Year	DonPhaseII_Final_Proposed	4.71	211.68	213.71	1.74	213.71	0.000019	0.16	71.24	66.22	0.04
T2	1677.64	50 Year	DonPhaseII_Final_Baseline	2.91	211.68	213.51	1.54	213.51	0.000013	0.12	58.34	63.20	0.03
T2	1677.64	100 Year	DonPhaseII_Final_Proposed	3.62	211.68	213.59	1.62	213.59	0.000015	0.14	63.71	64.34	0.03
T2	1677.64	25 Year	DonPhaseII_Final_Baseline	2.22	211.68	213.42	1.45	213.42	0.000010	0.10	52.77	62.23	0.03
T2	1677.64	50 Year	DonPhaseII_Final_Proposed	2.91	211.68	213.51	1.54	213.51	0.000013	0.12	58.34	63.20	0.03
T2	1677.64	10 Year	DonPhaseII_Final_Baseline	1.60	211.68	213.32	1.36	213.32	0.000007	0.08	46.92	61.12	0.02
T2	1677.64	25 Year	DonPhaseII_Final_Proposed	2.22	211.68	213.42	1.45	213.42	0.000010	0.10	52.77	62.23	0.03
T2	1677.64	5 Year	DonPhaseII_Final_Baseline	1.15	211.68	213.24	1.27	213.24	0.000005	0.07	41.93	60.10	0.02
T2	1677.64	10 Year	DonPhaseII_Final_Proposed	1.60	211.68	213.32	1.36	213.32	0.000007	0.08	46.92	61.12	0.02
T2	1677.64	2 Year	DonPhaseII_Final_Baseline	0.56	211.68	212.91	0.95	212.91	0.000006	0.06	22.97	53.51	0.02
T2	1677.64	5 Year	DonPhaseII_Final_Proposed	1.15	211.68	213.24	1.27	213.24	0.000005	0.07	41.93	60.10	0.02
T2	1677.64	2 Year	DonPhaseII_Final_Proposed	0.56	211.68	212.91	0.95	212.91	0.000006	0.06	22.97	53.51	0.02
T2	1671.73	Regional	DonPhaseII_Final_Baseline	47.47	211.62	214.63	2.93	214.65	0.000365	1.11	120.50	80.32	0.21
T2	1671.73	Regional	DonPhaseII_Final_Proposed	47.47	211.62	214.63	2.93	214.65	0.000365	1.11	120.50	80.32	0.21
T2	1671.73	350 Year	DonPhaseII_Final_Baseline	6.08	211.62	213.84	2.14	213.85	0.000028	0.24	68.11	58.85	0.05
T2	1671.73	350 Year	DonPhaseII_Final_Proposed	6.08	211.62	213.84	2.14	213.85	0.000028	0.24	68.11	58.85	0.05
T2	1671.73	100 Year	DonPhaseII_Final_Baseline	3.62	211.62	213.59	1.89	213.59	0.000018	0.18	53.52	56.57	0.04
T2	1671.73	1.3*100 Year	DonPhaseII_Final_Proposed	4.71	211.62	213.71	2.01	213.71	0.000022	0.21	60.11	57.71	0.05
T2	1671.73	50 Year	DonPhaseII_Final_Baseline	2.91	211.62	213.51	1.81	213.51	0.000015	0.16	48.82	55.05	0.04
T2	1671.73	100 Year	DonPhaseII_Final_Proposed	3.62	211.62	213.59	1.89	213.59	0.000018	0.18	53.52	56.57	0.04
T2	1671.73	25 Year	DonPhaseII_Final_Baseline	2.22	211.62	213.42	1.72	213.42	0.000011	0.14	44.04	52.30	0.03
T2	1671.73	50 Year	DonPhaseII_Final_Proposed	2.91	211.62	213.51	1.81	213.51	0.000015	0.16	48.82	55.05	0.04
T2	1671.73	10 Year	DonPhaseII_Final_Baseline	1.60	211.62	213.32	1.62	213.32	0.000008	0.11	39.25	49.12	0.03
T2	1671.73	25 Year	DonPhaseII_Final_Proposed	2.22	211.62	213.42	1.72	213.42	0.000011	0.14	44.04	52.30	0.03
T2	1671.73	5 Year	DonPhaseII_Final_Baseline	1.15	211.62	213.24	1.54	213.24	0.000005	0.09	35.27	47.92	0.02

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	1656.08	Regional	DonPhaseII_Final_Proposed	47.47	210.87	213.09	2.16	213.38	0.005367	3.48	43.31	59.17	0.76
T2	1656.08	350 Year	DonPhaseII_Final_Baseline	6.08	210.87	211.66	0.73	211.95	0.012064	2.54	3.32	6.86	0.95
T2	1656.08	350 Year	DonPhaseII_Final_Proposed	6.08	210.87	211.66	0.73	211.95	0.012064	2.54	3.32	6.86	0.95
T2	1656.08	100 Year	DonPhaseII_Final_Baseline	3.62	210.87	211.46	0.54	211.69	0.013409	2.17	2.10	5.48	0.95
T2	1656.08	1.3*100 Year	DonPhaseII_Final_Proposed	4.71	210.87	211.55	0.63	211.81	0.012803	2.36	2.63	6.12	0.95
T2	1656.08	50 Year	DonPhaseII_Final_Baseline	2.91	210.87	211.42	0.50	211.60	0.011483	1.90	1.88	5.21	0.86
T2	1656.08	100 Year	DonPhaseII_Final_Proposed	3.62	210.87	211.46	0.54	211.69	0.013409	2.17	2.10	5.48	0.95
T2	1656.08	25 Year	DonPhaseII_Final_Baseline	2.22	210.87	211.37	0.45	211.50	0.009673	1.63	1.63	4.90	0.78
T2	1656.08	50 Year	DonPhaseII_Final_Proposed	2.91	210.87	211.42	0.50	211.60	0.011483	1.90	1.88	5.21	0.86
T2	1656.08	10 Year	DonPhaseII_Final_Baseline	1.60	210.87	211.32	0.39	211.41	0.008191	1.37	1.36	4.53	0.70
T2	1656.08	25 Year	DonPhaseII_Final_Proposed	2.22	210.87	211.37	0.45	211.50	0.009673	1.63	1.63	4.90	0.78
T2	1656.08	5 Year	DonPhaseII_Final_Baseline	1.15	210.87	211.26	0.34	211.33	0.007007	1.15	1.13	4.22	0.63
T2	1656.08	10 Year	DonPhaseII_Final_Proposed	1.60	210.87	211.32	0.39	211.41	0.008191	1.37	1.36	4.53	0.70
T2	1656.08	2 Year	DonPhaseII_Final_Baseline	0.56	210.87	211.17	0.25	211.20	0.004829	0.78	0.78	3.71	0.50
T2	1656.08	5 Year	DonPhaseII_Final_Proposed	1.15	210.87	211.26	0.34	211.33	0.007007	1.15	1.13	4.22	0.63
T2	1656.08	2 Year	DonPhaseII_Final_Proposed	0.56	210.87	211.17	0.25	211.20	0.004829	0.78	0.78	3.71	0.50
T2	1642.43	Regional	DonPhaseII_Final_Baseline	48.12	210.82	212.11	1.22	212.27	0.016050	2.30	32.68	47.07	0.67
T2	1642.43	Regional	DonPhaseII_Final_Proposed	48.12	210.82	212.11	1.22	212.27	0.016050	2.30	32.68	47.07	0.67
T2	1642.43	350 Year	DonPhaseII_Final_Baseline	6.27	210.82	211.40	0.50	211.49	0.022137	1.45	5.13	19.58	0.65
T2	1642.43	350 Year	DonPhaseII_Final_Proposed	6.27	210.82	211.40	0.50	211.49	0.022137	1.45	5.13	19.58	0.65
T2	1642.43	100 Year	DonPhaseII_Final_Baseline	3.65	210.82	211.19	0.30	211.31	0.052548	1.53	2.52	9.89	0.89
T2	1642.43	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	210.82	211.29	0.39	211.39	0.032886	1.47	3.50	11.17	0.75
T2	1642.43	50 Year	DonPhaseII_Final_Baseline	2.93	210.82	211.14	0.25	211.25	0.064311	1.48	2.05	9.21	0.95
T2	1642.43	100 Year	DonPhaseII_Final_Proposed	3.65	210.82	211.19	0.30	211.31	0.052548	1.53	2.52	9.89	0.89
T2	1642.43	25 Year	DonPhaseII_Final_Baseline	2.22	210.82	211.10	0.20	211.19	0.079142	1.40	1.62	8.68	1.00
T2	1642.43	50 Year	DonPhaseII_Final_Proposed	2.93	210.82	211.14	0.25	211.25	0.064311	1.48	2.05	9.21	0.95
T2	1642.43	10 Year	DonPhaseII_Final_Baseline	1.60	210.82	211.06	0.16	211.14	0.087836	1.26	1.29	8.22	1.00
T2	1642.43	25 Year	DonPhaseII_Final_Proposed	2.22	210.82	211.10	0.20	211.19	0.079142	1.40	1.62	8.68	1.00
T2	1642.43	5 Year	DonPhaseII_Final_Baseline	1.15	210.82	211.02	0.14	211.09	0.096549	1.14	1.02	7.79	0.99
T2	1642.43	10 Year	DonPhaseII_Final_Proposed	1.60	210.82	211.06	0.16	211.14	0.087836	1.26	1.29	8.22	1.00
T2	1642.43	2 Year	DonPhaseII_Final_Baseline	0.57	210.82	210.97	0.09	211.01	0.118702	0.92	0.62	7.12	0.99
T2	1642.43	5 Year	DonPhaseII_Final_Proposed	1.15	210.82	211.02	0.14	211.09	0.096549	1.14	1.02	7.79	0.99
T2	1642.43	2 Year	DonPhaseII_Final_Proposed	0.57	210.82	210.97	0.09	211.01	0.118702	0.92	0.62	7.12	0.99
T2	1602.1	Regional	DonPhaseII_Final_Baseline	48.12	210.10	211.64	1.46	211.85	0.007797	3.22	41.05	58.45	0.85
T2	1602.1	Regional	DonPhaseII_Final_Proposed	48.12	210.10	211.64	1.46	211.85	0.007797	3.22	41.05	58.45	0.85
T2	1602.1	350 Year	DonPhaseII_Final_Baseline	6.27	210.10	210.84	0.66	210.99	0.008231	1.96	5.78	24.06	0.77
T2	1602.1	350 Year	DonPhaseII_Final_Proposed	6.27	210.10	210.84	0.66	210.99	0.008231	1.96	5.78	24.06	0.77
T2	1602.1	100 Year	DonPhaseII_Final_Baseline	3.65	210.10	210.71	0.54	210.79	0.005626	1.41	3.83	9.14	0.61
T2	1602.1	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	210.10	210.79	0.62	210.90	0.006376	1.64	4.80	17.77	0.67
T2	1602.1	50 Year	DonPhaseII_Final_Baseline	2.93	210.10	210.65	0.48	210.72	0.005492	1.28	3.30	8.52	0.59
T2	1602.1	100 Year	DonPhaseII_Final_Proposed	3.65	210.10	210.71	0.54	210.79	0.005626	1.41	3.83	9.14	0.61
T2	1602.1	25 Year	DonPhaseII_Final_Baseline	2.22	210.10	210.58	0.41	210.64	0.005329	1.14	2.74	7.92	0.57
T2	1602.1	50 Year	DonPhaseII_Final_Proposed	2.93	210.10	210.65	0.48	210.72	0.005492	1.28	3.30	8.52	0.59
T2	1602.1	10 Year	DonPhaseII_Final_Baseline	1.60	210.10	210.51	0.34	210.55	0.005281	1.00	2.20	7.38	0.55
T2	1602.1	25 Year	DonPhaseII_Final_Proposed	2.22	210.10	210.58	0.41	210.64	0.005329	1.14	2.74	7.92	0.57
T2	1602.1	5 Year	DonPhaseII_Final_Baseline	1.15	210.10	210.45	0.28	210.48	0.005319	0.89	1.76	6.90	0.53
T2	1602.1	10 Year	DonPhaseII_Final_Proposed	1.60	210.10	210.51	0.34	210.55	0.005281	1.00	2.20	7.38	0.55
T2	1602.1	2 Year	DonPhaseII_Final_Baseline	0.57	210.10	210.35	0.20	210.37	0.004707	0.68	1.13	6.13	0.48
T2	1602.1	5 Year	DonPhaseII_Final_Proposed	1.15	210.10	210.45	0.28	210.48	0.005319	0.89	1.76	6.90	0.53
T2	1602.1	2 Year	DonPhaseII_Final_Proposed	0.57	210.10	210.35	0.20	210.37	0.004707	0.68	1.13	6.13	0.48
T2	1551.77	Regional	DonPhaseII_Final_Baseline	48.12	209.67	211.21	1.48	211.49	0.008802	3.47	35.50	51.75	0.91
T2	1551.77	Regional	DonPhaseII_Final_Proposed	48.12	209.67	211.21	1.48	211.49	0.008802	3.47	35.50	51.75	0.91
T2	1551.77	350 Year	DonPhaseII_Final_Baseline	6.27	209.67	210.40	0.67	210.58	0.008707	2.03	5.09	17.78	0.79
T2	1551.77	350 Year	DonPhaseII_Final_Proposed	6.27	209.67	210.40	0.67	210.58	0.008707	2.03	5.09	17.78	0.79
T2	1551.77	100 Year	DonPhaseII_Final_Baseline	3.65	209.67	210.17	0.45	210.36	0.014268	1.98	2.20	7.46	0.95
T2	1551.77	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	209.67	210.25	0.53	210.47	0.012815	2.11	2.95	11.03	0.93
T2	1551.77	50 Year	DonPhaseII_Final_Baseline	2.93	209.67	210.11	0.38	210.28	0.015437	1.87	1.78	6.20	0.96
T2	1551.77	100 Year	DonPhaseII_Final_Proposed	3.65	209.67	210.17	0.45	210.36	0.014268	1.98	2.20	7.46	0.95
T2	1551.77	25 Year	DonPhaseII_Final_Baseline	2.22	209.67	210.04	0.32	210.19	0.017416	1.74	1.39	5.33	0.99
T2	1551.77	50 Year	DonPhaseII_Final_Proposed	2.93	209.67	210.11	0.38	210.28	0.015437	1.87	1.78	6.20	0.96
T2	1551.77	10 Year	DonPhaseII_Final_Baseline	1.60	209.67	209.98	0.26	210.10	0.018449	1.56	1.09	4.93	0.98
T2	1551.77	25 Year	DonPhaseII_Final_Proposed	2.22	209.67	210.04	0.32	210.19	0.017416	1.74	1.39	5.33	0.99
T2	1551.77	5 Year	DonPhaseII_Final_Baseline	1.15	209.67	209.94	0.21	210.03	0.018558	1.37	0.87	4.63	0.96
T2	1551.77	10 Year	DonPhaseII_Final_Proposed	1.60	209.67	209.98	0.26	210.10	0.018449	1.56	1.09	4.93	0.98
T2	1551.77	2 Year	DonPhaseII_Final_Baseline	0.57	209.67	209.85	0.13	209.92	0.024228	1.13	0.51	4.10	1.00
T2	1551.77	5 Year	DonPhaseII_Final_Proposed	1.15	209.67	209.94	0.21	210.03	0.018558	1.37	0.87	4.63	0.96
T2	1551.77	2 Year	DonPhaseII_Final_Proposed	0.57	209.67	209.85	0.13	209.92	0.024228	1.13	0.51	4.10	1.00
T2	1500.59	Regional	DonPhaseII_Final_Baseline	48.12	209.27	210.95	1.53	211.05	0.003183	2.11	49.62	47.50	0.54
T2	1500.59	Regional	DonPhaseII_Final_Proposed	48.12	209.27	210.95	1.53	211.05	0.003183	2.11	49.62	47.50	0.54
T2	1500.59	350 Year	DonPhaseII_Final_Baseline	6.27	209.27	210.45	1.03	210.46	0.000289	0.49	27.91	41.77	0.15
T2	1500.59	350 Year	DonPhaseII_Final_Proposed	6.27	209.27	210.45	1.03	210.46	0.000289	0.49	27.91	41.77	0.15
T2	1500.59	100 Year	DonPhaseII_Final_Baseline	3.65	209.27	210.12	0.70	210.13	0.000628	0.56	14.24	40.04	0.21
T2	1500.59	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	209.27	210.27	0.84	210.28	0.000417	0.51	20.19	40.90	0.18
T2	1500.59	50 Year	DonPhaseII_Final_Baseline	2.93	209.27	210.02	0.60	210.04	0.000887	0.60	10.32	39.37	0.25
T2	1500.59	100 Year	DonPhaseII_Final_Proposed	3.65	209.27	210.12	0.70	210.13	0.000628	0.56	14.24	40.04	0.21
T2	1500.59	25 Year	DonPhaseII_Final_Baseline	2.22	209.27	209.92	0.50	209.94	0.001336	0.65	6.45	38.31	0.29
T2	1500.59	50 Year	DonPhaseII_Final_Proposed	2.93	209.27	210.02	0.60	210.04	0.000887	0.60	10.32	39.37	0.25
T2	1500.59	10 Year	DonPhaseII_Final_Baseline	1.60	209.27	209.83	0.41	209.85	0.001889	0.67	3.16	28.83	0.34
T2	1500.59	25 Year	DonPhaseII_Final_Proposed	2.22	209.27	209.92	0.50	209.94	0.001336	0.65	6.45	38.31	0.29
T2	1500.59	5 Year	DonPhaseII_Final_Baseline	1.15	209.27	209.74	0.34	209.76	0.002168	0.63	1.82	5.66	0.35
T2	1500.59	10 Year	DonPhaseII_Final_Proposed	1.60	209.27	209.83	0.41	209.85	0.001889	0.67	3.16	28.83	0.34
T2	1500.59	2 Year	DonPhaseII_Final_Baseline	0.57	209.27	209.59	0.23	209.61	0.002567	0.54	1.05	4.53	0.36
T2	1500.59	5 Year	DonPhaseII_Final_Proposed	1.15	209.27	209.74	0.34	209.76	0.002168	0.63	1.82	5.66	0.35
T2	1500.59	2 Year	DonPhaseII_Final_Proposed	0.57	209.27	209.59	0.23	209.61	0.002567	0.54	1.05	4.53	0.36
T2	1454.82	Regional	DonPhaseII_Final_Baseline	48.12	208.93	210.50	1.46	210.78	0.013851	4.24	34.52	47.48	

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	1454.82	25 Year	DonPhaseII_Final_Baseline	2.22	208.93	209.56	0.51	209.78	0.014437	2.14	1.25	3.35	0.96
T2	1454.82	50 Year	DonPhaseII_Final_Proposed	2.93	208.93	209.65	0.60	209.91	0.013515	2.33	1.59	3.94	0.96
T2	1454.82	10 Year	DonPhaseII_Final_Baseline	1.60	208.93	209.46	0.41	209.64	0.015380	1.93	0.96	3.00	0.96
T2	1454.82	25 Year	DonPhaseII_Final_Proposed	2.22	208.93	209.56	0.51	209.78	0.014437	2.14	1.25	3.35	0.96
T2	1454.82	5 Year	DonPhaseII_Final_Baseline	1.15	208.93	209.38	0.33	209.53	0.017031	1.76	0.72	2.70	0.97
T2	1454.82	10 Year	DonPhaseII_Final_Proposed	1.60	208.93	209.46	0.41	209.64	0.015380	1.93	0.96	3.00	0.96
T2	1454.82	2 Year	DonPhaseII_Final_Baseline	0.57	208.93	209.27	0.22	209.36	0.016397	1.32	0.45	2.30	0.89
T2	1454.82	5 Year	DonPhaseII_Final_Proposed	1.15	208.93	209.38	0.33	209.53	0.017031	1.76	0.72	2.70	0.97
T2	1454.82	2 Year	DonPhaseII_Final_Proposed	0.57	208.93	209.27	0.22	209.36	0.016397	1.32	0.45	2.30	0.89
T2	1400.08	Regional	DonPhaseII_Final_Baseline	48.12	208.29	209.97	1.59	210.10	0.002458	1.83	43.56	48.52	0.46
T2	1400.08	Regional	DonPhaseII_Final_Proposed	48.12	208.29	209.97	1.59	210.10	0.002458	1.83	43.56	48.52	0.46
T2	1400.08	350 Year	DonPhaseII_Final_Baseline	6.27	208.29	208.74	0.36	208.85	0.010102	1.44	4.39	12.74	0.77
T2	1400.08	350 Year	DonPhaseII_Final_Proposed	6.27	208.29	208.74	0.36	208.85	0.010102	1.44	4.39	12.74	0.77
T2	1400.08	100 Year	DonPhaseII_Final_Baseline	3.65	208.29	208.61	0.24	208.70	0.013420	1.30	2.82	11.81	0.84
T2	1400.08	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	208.29	208.67	0.29	208.76	0.012036	1.38	3.46	12.24	0.82
T2	1400.08	50 Year	DonPhaseII_Final_Baseline	2.93	208.29	208.58	0.21	208.65	0.014165	1.22	2.41	11.52	0.85
T2	1400.08	100 Year	DonPhaseII_Final_Proposed	3.65	208.29	208.61	0.24	208.70	0.013420	1.30	2.82	11.81	0.84
T2	1400.08	25 Year	DonPhaseII_Final_Baseline	2.22	208.29	208.54	0.18	208.60	0.015173	1.13	1.97	11.21	0.86
T2	1400.08	50 Year	DonPhaseII_Final_Proposed	2.93	208.29	208.58	0.21	208.65	0.014165	1.22	2.41	11.52	0.85
T2	1400.08	10 Year	DonPhaseII_Final_Baseline	1.60	208.29	208.50	0.15	208.56	0.015728	1.01	1.58	10.81	0.85
T2	1400.08	25 Year	DonPhaseII_Final_Proposed	2.22	208.29	208.54	0.18	208.60	0.015173	1.13	1.97	11.21	0.86
T2	1400.08	5 Year	DonPhaseII_Final_Baseline	1.15	208.29	208.48	0.12	208.52	0.015905	0.90	1.27	10.46	0.83
T2	1400.08	10 Year	DonPhaseII_Final_Proposed	1.60	208.29	208.50	0.15	208.56	0.015728	1.01	1.58	10.81	0.85
T2	1400.08	2 Year	DonPhaseII_Final_Baseline	0.57	208.29	208.43	0.08	208.46	0.016021	0.70	0.82	9.90	0.78
T2	1400.08	5 Year	DonPhaseII_Final_Proposed	1.15	208.29	208.48	0.12	208.52	0.015905	0.90	1.27	10.46	0.83
T2	1400.08	2 Year	DonPhaseII_Final_Proposed	0.57	208.29	208.43	0.08	208.46	0.016021	0.70	0.82	9.90	0.78
T2	1346.85	Regional	DonPhaseII_Final_Baseline	48.12	207.16	209.47	2.24	209.88	0.005832	3.70	32.71	37.62	0.79
T2	1346.85	Regional	DonPhaseII_Final_Proposed	48.12	207.16	209.47	2.24	209.88	0.005832	3.70	32.71	37.62	0.79
T2	1346.85	350 Year	DonPhaseII_Final_Baseline	6.27	207.16	207.91	0.67	208.20	0.013635	2.54	3.28	6.87	0.99
T2	1346.85	350 Year	DonPhaseII_Final_Proposed	6.27	207.16	207.91	0.67	208.20	0.013635	2.54	3.28	6.87	0.99
T2	1346.85	100 Year	DonPhaseII_Final_Baseline	3.65	207.16	207.72	0.48	207.93	0.014769	2.13	2.11	5.72	0.98
T2	1346.85	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	207.16	207.80	0.57	208.05	0.013979	2.31	2.62	6.23	0.98
T2	1346.85	50 Year	DonPhaseII_Final_Baseline	2.93	207.16	207.65	0.42	207.84	0.015698	1.99	1.75	5.34	0.98
T2	1346.85	100 Year	DonPhaseII_Final_Proposed	3.65	207.16	207.72	0.48	207.93	0.014769	2.13	2.11	5.72	0.98
T2	1346.85	25 Year	DonPhaseII_Final_Baseline	2.22	207.16	207.59	0.35	207.75	0.016572	1.82	1.41	4.96	0.98
T2	1346.85	50 Year	DonPhaseII_Final_Proposed	2.93	207.16	207.65	0.42	207.84	0.015698	1.99	1.75	5.34	0.98
T2	1346.85	10 Year	DonPhaseII_Final_Baseline	1.60	207.16	207.52	0.29	207.65	0.017956	1.65	1.09	4.58	0.98
T2	1346.85	25 Year	DonPhaseII_Final_Proposed	2.22	207.16	207.59	0.35	207.75	0.016572	1.82	1.41	4.96	0.98
T2	1346.85	5 Year	DonPhaseII_Final_Baseline	1.15	207.16	207.46	0.23	207.57	0.019416	1.48	0.84	4.27	0.99
T2	1346.85	10 Year	DonPhaseII_Final_Proposed	1.60	207.16	207.52	0.29	207.65	0.017956	1.65	1.09	4.58	0.98
T2	1346.85	2 Year	DonPhaseII_Final_Baseline	0.57	207.16	207.37	0.15	207.45	0.022327	1.21	0.49	3.55	0.99
T2	1346.85	5 Year	DonPhaseII_Final_Proposed	1.15	207.16	207.46	0.23	207.57	0.019416	1.48	0.84	4.27	0.99
T2	1346.85	2 Year	DonPhaseII_Final_Proposed	0.57	207.16	207.37	0.15	207.45	0.022327	1.21	0.49	3.55	0.99
T2	1300	Regional	DonPhaseII_Final_Baseline	48.12	206.65	208.90	2.21	209.47	0.008001	4.33	25.64	22.12	0.93
T2	1300	Regional	DonPhaseII_Final_Proposed	48.12	206.65	208.90	2.21	209.47	0.008001	4.33	25.64	22.12	0.93
T2	1300	350 Year	DonPhaseII_Final_Baseline	6.27	206.65	207.65	0.96	207.80	0.004508	1.86	5.25	8.42	0.61
T2	1300	350 Year	DonPhaseII_Final_Proposed	6.27	206.65	207.65	0.96	207.80	0.004508	1.86	5.25	8.42	0.61
T2	1300	100 Year	DonPhaseII_Final_Baseline	3.65	206.65	207.45	0.75	207.54	0.003714	1.44	3.66	6.86	0.53
T2	1300	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	206.65	207.52	0.83	207.64	0.004478	1.68	4.18	7.31	0.59
T2	1300	50 Year	DonPhaseII_Final_Baseline	2.93	206.65	207.38	0.69	207.45	0.003291	1.28	3.24	6.55	0.49
T2	1300	100 Year	DonPhaseII_Final_Proposed	3.65	206.65	207.45	0.75	207.54	0.003714	1.44	3.66	6.86	0.53
T2	1300	25 Year	DonPhaseII_Final_Baseline	2.22	206.65	207.30	0.61	207.36	0.002975	1.12	2.73	6.15	0.46
T2	1300	50 Year	DonPhaseII_Final_Proposed	2.93	206.65	207.38	0.69	207.45	0.003291	1.28	3.24	6.55	0.49
T2	1300	10 Year	DonPhaseII_Final_Baseline	1.60	206.65	207.20	0.50	207.24	0.003027	0.99	2.12	5.65	0.45
T2	1300	25 Year	DonPhaseII_Final_Proposed	2.22	206.65	207.30	0.61	207.36	0.002975	1.12	2.73	6.15	0.46
T2	1300	5 Year	DonPhaseII_Final_Baseline	1.15	206.65	207.12	0.42	207.15	0.002908	0.87	1.68	5.24	0.43
T2	1300	10 Year	DonPhaseII_Final_Proposed	1.60	206.65	207.20	0.50	207.24	0.003027	0.99	2.12	5.65	0.45
T2	1300	2 Year	DonPhaseII_Final_Baseline	0.57	206.65	206.98	0.29	207.00	0.002724	0.65	1.03	4.51	0.39
T2	1300	5 Year	DonPhaseII_Final_Proposed	1.15	206.65	207.12	0.42	207.15	0.002908	0.87	1.68	5.24	0.43
T2	1300	2 Year	DonPhaseII_Final_Proposed	0.57	206.65	206.98	0.29	207.00	0.002724	0.65	1.03	4.51	0.39
T2	1253.25	Regional	DonPhaseII_Final_Baseline	48.12	206.40	209.07	2.63	209.18	0.002160	2.52	56.93	45.56	0.50
T2	1253.25	Regional	DonPhaseII_Final_Proposed	48.12	206.40	209.07	2.63	209.18	0.002160	2.52	56.93	45.56	0.50
T2	1253.25	350 Year	DonPhaseII_Final_Baseline	6.27	206.40	207.61	1.17	207.66	0.001879	1.37	11.55	20.24	0.40
T2	1253.25	350 Year	DonPhaseII_Final_Proposed	6.27	206.40	207.61	1.17	207.66	0.001879	1.37	11.55	20.24	0.40
T2	1253.25	100 Year	DonPhaseII_Final_Baseline	3.65	206.40	207.11	0.67	207.28	0.009568	2.12	3.15	9.16	0.83
T2	1253.25	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	206.40	207.30	0.86	207.43	0.005501	1.91	5.75	17.49	0.66
T2	1253.25	50 Year	DonPhaseII_Final_Baseline	2.93	206.40	207.00	0.56	207.19	0.012318	2.15	2.29	7.39	0.92
T2	1253.25	100 Year	DonPhaseII_Final_Proposed	3.65	206.40	207.11	0.67	207.28	0.009568	2.12	3.15	9.16	0.83
T2	1253.25	25 Year	DonPhaseII_Final_Baseline	2.22	206.40	206.90	0.45	207.09	0.015646	2.11	1.59	5.63	1.00
T2	1253.25	50 Year	DonPhaseII_Final_Proposed	2.93	206.40	207.00	0.56	207.19	0.012318	2.15	2.29	7.39	0.92
T2	1253.25	10 Year	DonPhaseII_Final_Baseline	1.60	206.40	206.82	0.38	206.97	0.015240	1.85	1.22	4.63	0.96
T2	1253.25	25 Year	DonPhaseII_Final_Proposed	2.22	206.40	206.90	0.45	207.09	0.015646	2.11	1.59	5.63	1.00
T2	1253.25	5 Year	DonPhaseII_Final_Baseline	1.15	206.40	206.75	0.31	206.88	0.016918	1.69	0.91	4.08	0.97
T2	1253.25	10 Year	DonPhaseII_Final_Proposed	1.60	206.40	206.82	0.38	206.97	0.015240	1.85	1.22	4.63	0.96
T2	1253.25	2 Year	DonPhaseII_Final_Baseline	0.57	206.40	206.64	0.20	206.73	0.020087	1.37	0.50	3.23	0.98
T2	1253.25	5 Year	DonPhaseII_Final_Proposed	1.15	206.40	206.75	0.31	206.88	0.016918	1.69	0.91	4.08	0.97
T2	1253.25	2 Year	DonPhaseII_Final_Proposed	0.57	206.40	206.64	0.20	206.73	0.020087	1.37	0.50	3.23	0.98
T2	1248.17	Regional	DonPhaseII_Final_Baseline	48.12	206.28	208.97	2.62	209.15	0.002465	2.69	52.02	51.73	0.53
T2	1248.17	Regional	DonPhaseII_Final_Proposed	48.12	206.28	208.97	2.62	209.15	0.002465	2.69	52.02	51.73	0.53
T2	1248.17	350 Year	DonPhaseII_Final_Baseline	6.27	206.28	207.59	1.23	207.65	0.001435	1.24	7.47	15.33	0.36
T2	1248.17	350 Year	DonPhaseII_Final_Proposed	6.27	206.28	207.59	1.23	207.65	0.001435	1.24	7.47	15.33	0.36
T2	1248.17	100 Year	DonPhaseII_Final_Baseline	3.65	206.28	207.14	0.79	207.20	0.002486	1.21	4.39	9.83	0.44
T2	1248.17	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	206.28	207.32	0.96	207.38	0.002001	1.24	5.61	11.20	0.40
T2	1248.17	50 Year	DonPhaseII_Final_Baseline	2.93	206.28	207.04	0.68	207.09	0.002803	1.16	3.63	8.75	0.45
T2	1248.17	100 Year	DonPhaseII_Final_Proposed	3.65	206.28	207.14	0.79	207.20	0.002486	1.21	4.39	9.83	0.44
T2	1248.17	25 Year	DonPhaseII_Final_Baseline</										

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	1248.17	5 Year	DonPhaseII_Final_Proposed	1.15	206.28	206.76	0.40	206.79	0.003170	0.87	1.74	6.31	0.44
T2	1248.17	2 Year	DonPhaseII_Final_Proposed	0.57	206.28	206.62	0.26	206.64	0.003400	0.68	0.98	4.90	0.42
T2	1238.77		Culvert										
T2	1230.24	Regional	DonPhaseII_Final_Baseline	48.12	206.27	208.39	2.12	208.67	0.006318	3.74	33.59	50.14	0.82
T2	1230.24	Regional	DonPhaseII_Final_Proposed	48.12	206.27	208.39	2.12	208.67	0.006318	3.74	33.59	50.14	0.82
T2	1230.24	350 Year	DonPhaseII_Final_Baseline	6.27	206.27	207.09	0.82	207.18	0.004194	1.62	5.31	9.96	0.57
T2	1230.24	350 Year	DonPhaseII_Final_Proposed	6.27	206.27	207.09	0.82	207.18	0.004194	1.62	5.31	9.96	0.57
T2	1230.24	100 Year	DonPhaseII_Final_Baseline	3.65	206.27	206.96	0.68	207.01	0.002794	1.17	4.31	9.42	0.45
T2	1230.24	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	206.27	207.01	0.74	207.08	0.003537	1.39	4.71	9.64	0.52
T2	1230.24	50 Year	DonPhaseII_Final_Baseline	2.93	206.27	206.92	0.64	206.95	0.002313	1.02	3.98	9.25	0.41
T2	1230.24	100 Year	DonPhaseII_Final_Proposed	3.65	206.27	206.96	0.68	207.01	0.002794	1.17	4.31	9.42	0.45
T2	1230.24	25 Year	DonPhaseII_Final_Baseline	2.22	206.27	206.86	0.59	206.89	0.001903	0.87	3.55	9.01	0.36
T2	1230.24	50 Year	DonPhaseII_Final_Proposed	2.93	206.27	206.92	0.64	206.95	0.002313	1.02	3.98	9.25	0.41
T2	1230.24	10 Year	DonPhaseII_Final_Baseline	1.60	206.27	206.80	0.53	206.82	0.001498	0.72	3.11	8.65	0.32
T2	1230.24	25 Year	DonPhaseII_Final_Proposed	2.22	206.27	206.86	0.59	206.89	0.001903	0.87	3.55	9.01	0.36
T2	1230.24	5 Year	DonPhaseII_Final_Baseline	1.15	206.27	206.75	0.47	206.76	0.001135	0.59	2.72	8.14	0.27
T2	1230.24	10 Year	DonPhaseII_Final_Proposed	1.60	206.27	206.80	0.53	206.82	0.001498	0.72	3.11	8.65	0.32
T2	1230.24	2 Year	DonPhaseII_Final_Baseline	0.57	206.27	206.63	0.35	206.63	0.000801	0.40	1.90	7.14	0.22
T2	1230.24	5 Year	DonPhaseII_Final_Proposed	1.15	206.27	206.75	0.47	206.76	0.001135	0.59	2.72	8.14	0.27
T2	1230.24	2 Year	DonPhaseII_Final_Proposed	0.57	206.27	206.63	0.35	206.63	0.000801	0.40	1.90	7.14	0.22
T2	1221.72	Regional	DonPhaseII_Final_Baseline	48.12	206.28	208.37	2.01	208.45	0.002318	2.18	55.37	60.80	0.49
T2	1221.72	Regional	DonPhaseII_Final_Proposed	48.12	206.28	208.37	2.01	208.45	0.002318	2.18	55.37	60.80	0.49
T2	1221.72	350 Year	DonPhaseII_Final_Baseline	6.27	206.28	207.08	0.72	207.14	0.004183	1.48	9.86	26.96	0.56
T2	1221.72	350 Year	DonPhaseII_Final_Proposed	6.27	206.28	207.08	0.72	207.14	0.004183	1.48	9.86	26.96	0.56
T2	1221.72	100 Year	DonPhaseII_Final_Baseline	3.65	206.28	206.83	0.47	206.95	0.010984	1.81	4.02	17.33	0.84
T2	1221.72	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	206.28	206.88	0.53	207.01	0.011445	1.98	4.94	18.50	0.87
T2	1221.72	50 Year	DonPhaseII_Final_Baseline	2.93	206.28	206.79	0.43	206.90	0.010752	1.69	3.33	16.66	0.82
T2	1221.72	100 Year	DonPhaseII_Final_Proposed	3.65	206.28	206.83	0.47	206.95	0.010984	1.81	4.02	17.33	0.84
T2	1221.72	25 Year	DonPhaseII_Final_Baseline	2.22	206.28	206.76	0.40	206.84	0.008788	1.45	2.82	16.14	0.73
T2	1221.72	50 Year	DonPhaseII_Final_Proposed	2.93	206.28	206.79	0.43	206.90	0.010752	1.69	3.33	16.66	0.82
T2	1221.72	10 Year	DonPhaseII_Final_Baseline	1.60	206.28	206.72	0.37	206.78	0.006975	1.22	2.26	15.41	0.64
T2	1221.72	25 Year	DonPhaseII_Final_Proposed	2.22	206.28	206.76	0.40	206.84	0.008788	1.45	2.82	16.14	0.73
T2	1221.72	5 Year	DonPhaseII_Final_Baseline	1.15	206.28	206.68	0.33	206.73	0.005846	1.04	1.71	14.70	0.58
T2	1221.72	10 Year	DonPhaseII_Final_Proposed	1.60	206.28	206.72	0.37	206.78	0.006975	1.22	2.26	15.41	0.64
T2	1221.72	2 Year	DonPhaseII_Final_Baseline	0.57	206.28	206.58	0.23	206.61	0.005552	0.79	0.84	5.00	0.53
T2	1221.72	5 Year	DonPhaseII_Final_Proposed	1.15	206.28	206.68	0.33	206.73	0.005846	1.04	1.71	14.70	0.58
T2	1221.72	2 Year	DonPhaseII_Final_Proposed	0.57	206.28	206.58	0.23	206.61	0.005552	0.79	0.84	5.00	0.53
T2	1192.26	Regional	DonPhaseII_Final_Baseline	48.12	206.04	208.39	2.34	208.40	0.000503	1.13	113.02	95.12	0.24
T2	1192.26	Regional	DonPhaseII_Final_Proposed	48.12	206.04	208.39	2.34	208.40	0.000503	1.13	113.02	95.12	0.24
T2	1192.26	350 Year	DonPhaseII_Final_Baseline	6.27	206.04	207.09	1.04	207.09	0.000500	0.65	27.35	47.83	0.21
T2	1192.26	350 Year	DonPhaseII_Final_Proposed	6.27	206.04	207.09	1.04	207.09	0.000500	0.65	27.35	47.83	0.21
T2	1192.26	100 Year	DonPhaseII_Final_Baseline	3.65	206.04	206.79	0.74	206.80	0.001145	0.79	13.98	40.45	0.29
T2	1192.26	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	206.04	206.85	0.80	206.86	0.001257	0.87	16.45	42.47	0.31
T2	1192.26	50 Year	DonPhaseII_Final_Baseline	2.93	206.04	206.65	0.60	206.68	0.002514	1.02	8.81	37.49	0.42
T2	1192.26	100 Year	DonPhaseII_Final_Proposed	3.65	206.04	206.79	0.74	206.80	0.001145	0.79	13.98	40.45	0.29
T2	1192.26	25 Year	DonPhaseII_Final_Baseline	2.22	206.04	206.49	0.44	206.58	0.010494	1.68	3.32	25.97	0.81
T2	1192.26	50 Year	DonPhaseII_Final_Proposed	2.93	206.04	206.65	0.60	206.68	0.002514	1.02	8.81	37.49	0.42
T2	1192.26	10 Year	DonPhaseII_Final_Baseline	1.60	206.04	206.42	0.37	206.53	0.012343	1.64	1.90	15.75	0.86
T2	1192.26	25 Year	DonPhaseII_Final_Proposed	2.22	206.04	206.49	0.44	206.58	0.010494	1.68	3.32	25.97	0.81
T2	1192.26	5 Year	DonPhaseII_Final_Baseline	1.15	206.04	206.35	0.30	206.46	0.015796	1.61	1.08	7.11	0.94
T2	1192.26	10 Year	DonPhaseII_Final_Proposed	1.60	206.04	206.42	0.37	206.53	0.012343	1.64	1.90	15.75	0.86
T2	1192.26	2 Year	DonPhaseII_Final_Baseline	0.57	206.04	206.24	0.19	206.32	0.019994	1.34	0.56	3.92	0.98
T2	1192.26	5 Year	DonPhaseII_Final_Proposed	1.15	206.04	206.35	0.30	206.46	0.015796	1.61	1.08	7.11	0.94
T2	1192.26	2 Year	DonPhaseII_Final_Proposed	0.57	206.04	206.24	0.19	206.32	0.019994	1.34	0.56	3.92	0.98
T2	1187.83	Regional	DonPhaseII_Final_Baseline	48.12	205.85	208.38	2.51	208.40	0.000607	1.30	106.29	101.98	0.26
T2	1187.83	Regional	DonPhaseII_Final_Proposed	48.12	205.85	208.38	2.51	208.40	0.000607	1.30	106.29	101.98	0.26
T2	1187.83	350 Year	DonPhaseII_Final_Baseline	6.27	205.85	207.01	1.15	207.07	0.002066	1.42	8.30	44.28	0.42
T2	1187.83	350 Year	DonPhaseII_Final_Proposed	6.27	205.85	207.01	1.15	207.07	0.002066	1.42	8.30	44.28	0.42
T2	1187.83	100 Year	DonPhaseII_Final_Baseline	3.65	205.85	206.73	0.87	206.78	0.002159	1.21	5.72	37.10	0.41
T2	1187.83	1.3*100 Year	DonPhaseII_Final_Proposed	4.75	205.85	206.76	0.90	206.83	0.003201	1.50	5.98	38.29	0.51
T2	1187.83	50 Year	DonPhaseII_Final_Baseline	2.93	205.85	206.61	0.75	206.66	0.002660	1.21	4.58	22.20	0.45
T2	1187.83	100 Year	DonPhaseII_Final_Proposed	3.65	205.85	206.73	0.87	206.78	0.002159	1.21	5.72	37.10	0.41
T2	1187.83	25 Year	DonPhaseII_Final_Baseline	2.22	205.85	206.48	0.61	206.53	0.003620	1.24	3.35	14.57	0.51
T2	1187.83	50 Year	DonPhaseII_Final_Proposed	2.93	205.85	206.61	0.75	206.66	0.002660	1.21	4.58	22.20	0.45
T2	1187.83	10 Year	DonPhaseII_Final_Baseline	1.60	205.85	206.32	0.45	206.40	0.006642	1.38	1.98	11.22	0.65
T2	1187.83	25 Year	DonPhaseII_Final_Proposed	2.22	205.85	206.48	0.61	206.53	0.003620	1.24	3.35	14.57	0.51
T2	1187.83	5 Year	DonPhaseII_Final_Baseline	1.15	205.85	206.20	0.34	206.29	0.010775	1.43	1.16	5.36	0.79
T2	1187.83	10 Year	DonPhaseII_Final_Proposed	1.60	205.85	206.32	0.45	206.40	0.006642	1.38	1.98	11.22	0.65
T2	1187.83	2 Year	DonPhaseII_Final_Baseline	0.57	205.85	206.06	0.19	206.14	0.019341	1.33	0.54	3.73	0.97
T2	1187.83	5 Year	DonPhaseII_Final_Proposed	1.15	205.85	206.20	0.34	206.29	0.010775	1.43	1.16	5.36	0.79
T2	1187.83	2 Year	DonPhaseII_Final_Proposed	0.57	205.85	206.06	0.19	206.14	0.019341	1.33	0.54	3.73	0.97
T2	1180.69		Culvert										
T2	1168.24	Regional	DonPhaseII_Final_Baseline	51.01	205.74	207.41	1.62	207.52	0.004135	2.52	38.17	38.21	0.63
T2	1168.24	Regional	DonPhaseII_Final_Proposed	51.01	205.74	207.41	1.62	207.52	0.004135	2.52	38.17	38.21	0.63
T2	1168.24	350 Year	DonPhaseII_Final_Baseline	7.27	205.74	206.66	0.87	206.93	0.012083	2.85	3.87	34.47	0.97
T2	1168.24	350 Year	DonPhaseII_Final_Proposed	7.27	205.74	206.66	0.87	206.93	0.012083	2.85	3.87	34.47	0.97
T2	1168.24	100 Year	DonPhaseII_Final_Baseline	4.03	205.74	206.47	0.68	206.66	0.010905	2.30	2.65	28.66	0.89
T2	1168.24	1.3*100 Year	DonPhaseII_Final_Proposed	5.24	205.74	206.55	0.76	206.77	0.011560	2.54	3.13	32.36	0.93
T2	1168.24	50 Year	DonPhaseII_Final_Baseline	3.16	205.74	206.41	0.62	206.58	0.010403	2.11	2.26	18.77	0.85
T2	1168.24	100 Year	DonPhaseII_Final_Proposed	4.03	205.74	206.47	0.68	206.66	0.010905	2.30	2.65	28.66	0.89
T2	1168.24	25 Year	DonPhaseII_Final_Baseline	2.27	205.74	206.34	0.55	206.48	0.009732	1.87	1.79	11.66	0.81
T2	1168.24	50 Year	DonPhaseII_Final_Proposed	3.16	205.74	206.41	0.62	206.58	0.010403	2.11	2.26	18.77	0.85
T2	1168.24	10 Year	DonPhaseII_Final_Baseline	1.63	205.74	206.20	0.41	206.36	0.014587	1.91	1.12	3.93	0.95
T2	1168.24	25 Year	DonPhaseII_Final_Proposed	2.27	205.74	206.34	0.55	206.48	0.009732	1.87	1.79	11.66	0.81
T2	1168.24	5 Year	DonPhaseII_Final_Baseline	1.18	205.74	206.13	0.34	206.26	0.015613	1.74	0.85	3.50	0.95

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	1154.21	Regional	DonPhaseII_Final_Baseline	51.01	205.20	206.53	1.29	206.84	0.013129	3.88	25.58	37.12	1.09
T2	1154.21	Regional	DonPhaseII_Final_Proposed	51.01	205.20	206.53	1.29	206.84	0.013129	3.88	25.58	37.12	1.09
T2	1154.21	350 Year	DonPhaseII_Final_Baseline	7.27	205.20	205.98	0.74	206.14	0.008447	2.15	6.56	27.68	0.80
T2	1154.21	350 Year	DonPhaseII_Final_Proposed	7.27	205.20	205.98	0.74	206.14	0.008447	2.15	6.56	27.68	0.80
T2	1154.21	100 Year	DonPhaseII_Final_Baseline	4.03	205.20	205.78	0.54	205.98	0.013648	2.20	2.33	13.47	0.96
T2	1154.21	1.3*100 Year	DonPhaseII_Final_Proposed	5.24	205.20	205.86	0.62	206.10	0.013341	2.40	2.86	18.58	0.97
T2	1154.21	50 Year	DonPhaseII_Final_Baseline	3.16	205.20	205.71	0.47	205.89	0.014038	2.04	1.93	5.63	0.95
T2	1154.21	100 Year	DonPhaseII_Final_Proposed	4.03	205.20	205.78	0.54	205.98	0.013648	2.20	2.33	13.47	0.96
T2	1154.21	25 Year	DonPhaseII_Final_Baseline	2.27	205.20	205.62	0.38	205.78	0.015145	1.85	1.47	5.10	0.96
T2	1154.21	50 Year	DonPhaseII_Final_Proposed	3.16	205.20	205.71	0.47	205.89	0.014038	2.04	1.93	5.63	0.95
T2	1154.21	10 Year	DonPhaseII_Final_Baseline	1.63	205.20	205.55	0.32	205.68	0.016013	1.67	1.14	4.67	0.95
T2	1154.21	25 Year	DonPhaseII_Final_Proposed	2.27	205.20	205.62	0.38	205.78	0.015145	1.85	1.47	5.10	0.96
T2	1154.21	5 Year	DonPhaseII_Final_Baseline	1.18	205.20	205.50	0.26	205.61	0.017011	1.51	0.89	4.31	0.95
T2	1154.21	10 Year	DonPhaseII_Final_Proposed	1.63	205.20	205.55	0.32	205.68	0.016013	1.67	1.14	4.67	0.95
T2	1154.21	2 Year	DonPhaseII_Final_Baseline	0.59	205.20	205.40	0.17	205.48	0.020619	1.24	0.51	3.66	0.97
T2	1154.21	5 Year	DonPhaseII_Final_Proposed	1.18	205.20	205.50	0.26	205.61	0.017011	1.51	0.89	4.31	0.95
T2	1154.21	2 Year	DonPhaseII_Final_Proposed	0.59	205.20	205.40	0.17	205.48	0.020619	1.24	0.51	3.66	0.97
T2	1109.12	Regional	DonPhaseII_Final_Baseline	51.01	204.65	205.93	1.23	206.22	0.012144	3.60	28.32	42.92	1.04
T2	1109.12	Regional	DonPhaseII_Final_Proposed	51.01	204.65	205.93	1.23	206.22	0.012144	3.60	28.32	42.92	1.04
T2	1109.12	350 Year	DonPhaseII_Final_Baseline	7.27	204.65	205.32	0.62	205.45	0.008552	1.92	6.66	25.42	0.78
T2	1109.12	350 Year	DonPhaseII_Final_Proposed	7.27	204.65	205.32	0.62	205.45	0.008552	1.92	6.66	25.42	0.78
T2	1109.12	100 Year	DonPhaseII_Final_Baseline	4.03	204.65	205.19	0.50	205.33	0.009690	1.76	2.74	19.21	0.80
T2	1109.12	1.3*100 Year	DonPhaseII_Final_Proposed	5.24	204.65	205.25	0.55	205.43	0.011238	2.03	3.19	22.67	0.87
T2	1109.12	50 Year	DonPhaseII_Final_Baseline	3.16	204.65	205.16	0.47	205.26	0.007367	1.47	2.53	17.21	0.69
T2	1109.12	100 Year	DonPhaseII_Final_Proposed	4.03	204.65	205.19	0.50	205.33	0.009690	1.76	2.74	19.21	0.80
T2	1109.12	25 Year	DonPhaseII_Final_Baseline	2.27	204.65	205.10	0.41	205.17	0.006328	1.24	2.11	12.70	0.62
T2	1109.12	50 Year	DonPhaseII_Final_Proposed	3.16	204.65	205.16	0.47	205.26	0.007367	1.47	2.53	17.21	0.69
T2	1109.12	10 Year	DonPhaseII_Final_Baseline	1.63	204.65	205.10	0.40	205.13	0.003432	0.90	2.07	12.01	0.46
T2	1109.12	25 Year	DonPhaseII_Final_Proposed	2.27	204.65	205.10	0.41	205.17	0.006328	1.24	2.11	12.70	0.62
T2	1109.12	5 Year	DonPhaseII_Final_Baseline	1.18	204.65	204.94	0.25	205.00	0.010144	1.12	1.14	5.50	0.72
T2	1109.12	10 Year	DonPhaseII_Final_Proposed	1.63	204.65	205.10	0.40	205.13	0.003432	0.90	2.07	12.01	0.46
T2	1109.12	2 Year	DonPhaseII_Final_Baseline	0.59	204.65	204.88	0.19	204.91	0.006579	0.76	0.83	5.11	0.56
T2	1109.12	5 Year	DonPhaseII_Final_Proposed	1.18	204.65	204.94	0.25	205.00	0.010144	1.12	1.14	5.50	0.72
T2	1109.12	2 Year	DonPhaseII_Final_Proposed	0.59	204.65	204.88	0.19	204.91	0.006579	0.76	0.83	5.11	0.56
T2	1066.7	Regional	DonPhaseII_Final_Baseline	51.01	204.37	205.56	1.18	205.68	0.009314	3.08	41.44	52.14	0.91
T2	1066.7	Regional	DonPhaseII_Final_Proposed	51.01	204.37	205.56	1.18	205.68	0.009314	3.08	41.44	52.14	0.91
T2	1066.7	350 Year	DonPhaseII_Final_Baseline	7.27	204.37	204.94	0.56	205.03	0.011742	2.11	10.56	47.21	0.90
T2	1066.7	350 Year	DonPhaseII_Final_Proposed	7.27	204.37	204.94	0.56	205.03	0.011742	2.11	10.56	47.21	0.90
T2	1066.7	100 Year	DonPhaseII_Final_Baseline	4.03	204.37	204.88	0.50	204.94	0.008824	1.68	7.46	46.21	0.76
T2	1066.7	1.3*100 Year	DonPhaseII_Final_Proposed	5.24	204.37	204.91	0.52	204.98	0.010078	1.87	8.73	46.62	0.82
T2	1066.7	50 Year	DonPhaseII_Final_Baseline	3.16	204.37	204.83	0.45	204.90	0.010625	1.72	5.36	37.56	0.82
T2	1066.7	100 Year	DonPhaseII_Final_Proposed	4.03	204.37	204.88	0.50	204.94	0.008824	1.68	7.46	46.21	0.76
T2	1066.7	25 Year	DonPhaseII_Final_Baseline	2.27	204.37	204.78	0.40	204.85	0.010255	1.57	3.79	27.71	0.79
T2	1066.7	50 Year	DonPhaseII_Final_Proposed	3.16	204.37	204.83	0.45	204.90	0.010625	1.72	5.36	37.56	0.82
T2	1066.7	10 Year	DonPhaseII_Final_Baseline	1.63	204.37	204.72	0.34	204.85	0.017214	1.83	1.45	18.83	1.00
T2	1066.7	25 Year	DonPhaseII_Final_Proposed	2.27	204.37	204.78	0.40	204.85	0.010255	1.57	3.79	27.71	0.79
T2	1066.7	5 Year	DonPhaseII_Final_Baseline	1.18	204.37	204.79	0.41	204.80	0.002598	0.80	3.94	28.86	0.40
T2	1066.7	10 Year	DonPhaseII_Final_Proposed	1.63	204.37	204.72	0.34	204.85	0.017214	1.83	1.45	18.83	1.00
T2	1066.7	2 Year	DonPhaseII_Final_Baseline	0.59	204.37	204.67	0.29	204.69	0.004375	0.82	1.12	14.38	0.49
T2	1066.7	5 Year	DonPhaseII_Final_Proposed	1.18	204.37	204.79	0.41	204.80	0.002598	0.80	3.94	28.86	0.40
T2	1066.7	2 Year	DonPhaseII_Final_Proposed	0.59	204.37	204.67	0.29	204.69	0.004375	0.82	1.12	14.38	0.49
T2	1037.96	Regional	DonPhaseII_Final_Baseline	51.01	204.21	205.53	1.29	205.56	0.002364	1.64	77.40	73.38	0.46
T2	1037.96	Regional	DonPhaseII_Final_Proposed	51.01	204.21	205.53	1.29	205.56	0.002364	1.64	77.40	73.38	0.46
T2	1037.96	350 Year	DonPhaseII_Final_Baseline	7.27	204.21	204.69	0.46	204.71	0.004278	1.10	18.76	65.43	0.52
T2	1037.96	350 Year	DonPhaseII_Final_Proposed	7.27	204.21	204.69	0.46	204.71	0.004278	1.10	18.76	65.43	0.52
T2	1037.96	100 Year	DonPhaseII_Final_Baseline	4.03	204.21	204.66	0.33	204.61	0.014615	1.63	6.85	56.17	0.91
T2	1037.96	1.3*100 Year	DonPhaseII_Final_Proposed	5.24	204.21	204.63	0.40	204.65	0.004537	1.04	14.93	64.66	0.53
T2	1037.96	50 Year	DonPhaseII_Final_Baseline	3.16	204.21	204.58	0.34	204.60	0.007450	1.20	7.38	58.02	0.66
T2	1037.96	100 Year	DonPhaseII_Final_Proposed	4.03	204.21	204.56	0.33	204.61	0.014615	1.63	6.85	56.17	0.91
T2	1037.96	25 Year	DonPhaseII_Final_Baseline	2.27	204.21	204.56	0.33	204.58	0.004637	0.92	6.85	56.17	0.51
T2	1037.96	50 Year	DonPhaseII_Final_Proposed	3.16	204.21	204.58	0.34	204.60	0.007450	1.20	7.38	58.02	0.66
T2	1037.96	10 Year	DonPhaseII_Final_Baseline	1.63	204.21	204.56	0.33	204.57	0.002391	0.66	6.85	56.17	0.37
T2	1037.96	25 Year	DonPhaseII_Final_Proposed	2.27	204.21	204.56	0.33	204.58	0.004637	0.92	6.85	56.17	0.51
T2	1037.96	5 Year	DonPhaseII_Final_Baseline	1.18	204.21	204.55	0.31	204.65	0.014271	1.57	1.23	54.78	0.90
T2	1037.96	10 Year	DonPhaseII_Final_Proposed	1.63	204.21	204.56	0.33	204.57	0.002391	0.66	6.85	56.17	0.37
T2	1037.96	2 Year	DonPhaseII_Final_Baseline	0.59	204.21	204.50	0.26	204.54	0.006768	0.97	0.90	50.58	0.60
T2	1037.96	5 Year	DonPhaseII_Final_Proposed	1.18	204.21	204.55	0.31	204.65	0.014271	1.57	1.23	54.78	0.90
T2	1037.96	2 Year	DonPhaseII_Final_Proposed	0.59	204.21	204.50	0.26	204.54	0.006768	0.97	0.90	50.58	0.60
T2	958.63	Regional	DonPhaseII_Final_Baseline	51.01	203.33	204.89	1.42	205.20	0.009271	3.43	35.59	60.31	0.92
T2	958.63	Regional	DonPhaseII_Final_Proposed	51.01	203.33	204.89	1.42	205.20	0.009271	3.43	35.59	60.31	0.92
T2	958.63	350 Year	DonPhaseII_Final_Baseline	7.27	203.33	204.01	0.54	204.17	0.011279	2.00	6.37	21.58	0.87
T2	958.63	350 Year	DonPhaseII_Final_Proposed	7.27	203.33	204.01	0.54	204.17	0.011279	2.00	6.37	21.58	0.87
T2	958.63	100 Year	DonPhaseII_Final_Baseline	4.03	203.33	203.85	0.38	203.98	0.014420	1.77	3.42	14.14	0.92
T2	958.63	1.3*100 Year	DonPhaseII_Final_Proposed	5.24	203.33	203.91	0.44	204.06	0.013450	1.89	4.32	15.37	0.91
T2	958.63	50 Year	DonPhaseII_Final_Baseline	3.16	203.33	203.84	0.37	203.93	0.009478	1.42	3.33	14.09	0.74
T2	958.63	100 Year	DonPhaseII_Final_Proposed	4.03	203.33	203.85	0.38	203.98	0.014420	1.77	3.42	14.14	0.92
T2	958.63	25 Year	DonPhaseII_Final_Baseline	2.27	203.33	203.76	0.29	203.85	0.012254	1.38	2.28	13.34	0.81
T2	958.63	50 Year	DonPhaseII_Final_Proposed	3.16	203.33	203.84	0.37	203.93	0.009478	1.42	3.33	14.09	0.74
T2	958.63	10 Year	DonPhaseII_Final_Baseline	1.63	203.33	203.70	0.23	203.79	0.016419	1.38	1.43	10.72	0.91
T2	958.63	25 Year	DonPhaseII_Final_Proposed	2.27	203.33	203.76	0.29	203.85	0.012254	1.38	2.28	13.34	0.81
T2	958.63	5 Year	DonPhaseII_Final_Baseline	1.18	203.33	203.64	0.19	203.73	0.019370	1.31	0.97	7.27	0.95
T2	958.63	10 Year	DonPhaseII_Final_Proposed	1.63	203.33	203.70	0.23	203.79	0.016419	1.38	1.43	10.72	0.91
T2	958.63	2 Year	DonPhaseII_Final_Baseline	0.59	203.33	203.55	0.14	203.62	0.024197	1.21	0.49	3.41	1.02
T2	958.63	5 Year	DonPhaseII_Final_Proposed	1.18	203.33	203.64	0.19	203.73	0.019370	1.31	0.97	7.27	0.95
T2	958.63	2 Year	DonPhaseII_Final_Proposed	0.59	203.33	203.55	0.14	203.62	0.024197	1.21	0.49		

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	933.16	100 Year	DonPhaseII_Final_Proposed	4.03	202.87	203.52	0.59	203.55	0.002577	1.01	5.82	28.60	0.42
T2	933.16	25 Year	DonPhaseII_Final_Baseline	2.27	202.87	203.32	0.39	203.50	0.015359	1.89	1.41	11.06	0.96
T2	933.16	50 Year	DonPhaseII_Final_Proposed	3.16	202.87	203.42	0.49	203.62	0.014072	2.08	1.90	13.30	0.96
T2	933.16	10 Year	DonPhaseII_Final_Baseline	1.63	202.87	203.26	0.33	203.39	0.014507	1.63	1.13	10.25	0.91
T2	933.16	25 Year	DonPhaseII_Final_Proposed	2.27	202.87	203.32	0.39	203.50	0.015359	1.89	1.41	11.06	0.96
T2	933.16	5 Year	DonPhaseII_Final_Baseline	1.18	202.87	203.21	0.28	203.31	0.013604	1.42	0.92	9.59	0.86
T2	933.16	10 Year	DonPhaseII_Final_Proposed	1.63	202.87	203.26	0.33	203.39	0.014507	1.63	1.13	10.25	0.91
T2	933.16	2 Year	DonPhaseII_Final_Baseline	0.59	202.87	203.12	0.19	203.18	0.012035	1.04	0.60	7.75	0.76
T2	933.16	5 Year	DonPhaseII_Final_Proposed	1.18	202.87	203.21	0.28	203.31	0.013604	1.42	0.92	9.59	0.86
T2	933.16	2 Year	DonPhaseII_Final_Proposed	0.59	202.87	203.12	0.19	203.18	0.012035	1.04	0.60	7.75	0.76
T2	848.78	Regional	DonPhaseII_Final_Baseline	51.01	201.68	203.77	2.06	203.91	0.003308	2.66	48.40	38.09	0.59
T2	848.78	Regional	DonPhaseII_Final_Proposed	51.01	201.68	203.77	2.06	203.91	0.003308	2.66	48.40	38.09	0.59
T2	848.78	350 Year	DonPhaseII_Final_Baseline	7.27	201.68	202.39	0.67	202.63	0.013510	2.55	5.29	14.21	0.99
T2	848.78	350 Year	DonPhaseII_Final_Proposed	7.27	201.68	202.39	0.67	202.63	0.013510	2.55	5.29	14.21	0.99
T2	848.78	100 Year	DonPhaseII_Final_Baseline	4.03	201.68	202.21	0.50	202.36	0.011926	1.96	3.33	9.31	0.89
T2	848.78	1.3*100 Year	DonPhaseII_Final_Proposed	5.24	201.68	202.31	0.59	202.47	0.010701	2.08	4.31	11.08	0.86
T2	848.78	50 Year	DonPhaseII_Final_Baseline	3.16	201.68	202.13	0.42	202.27	0.013655	1.87	2.64	8.47	0.92
T2	848.78	100 Year	DonPhaseII_Final_Proposed	4.03	201.68	202.21	0.50	202.36	0.011926	1.96	3.33	9.31	0.89
T2	848.78	25 Year	DonPhaseII_Final_Baseline	2.27	201.68	202.05	0.34	202.17	0.015916	1.74	1.97	7.82	0.96
T2	848.78	50 Year	DonPhaseII_Final_Proposed	3.16	201.68	202.13	0.42	202.27	0.013655	1.87	2.64	8.47	0.92
T2	848.78	10 Year	DonPhaseII_Final_Baseline	1.63	201.68	201.99	0.27	202.09	0.017931	1.61	1.48	7.32	0.98
T2	848.78	25 Year	DonPhaseII_Final_Proposed	2.27	201.68	202.05	0.34	202.17	0.015916	1.74	1.97	7.82	0.96
T2	848.78	5 Year	DonPhaseII_Final_Baseline	1.18	201.68	201.94	0.23	202.03	0.018438	1.45	1.16	6.96	0.97
T2	848.78	10 Year	DonPhaseII_Final_Proposed	1.63	201.68	201.99	0.27	202.09	0.017931	1.61	1.48	7.32	0.98
T2	848.78	2 Year	DonPhaseII_Final_Baseline	0.59	201.68	201.87	0.15	201.93	0.019559	1.15	0.67	6.29	0.93
T2	848.78	5 Year	DonPhaseII_Final_Proposed	1.18	201.68	201.94	0.23	202.03	0.018438	1.45	1.16	6.96	0.97
T2	848.78	2 Year	DonPhaseII_Final_Proposed	0.59	201.68	201.87	0.15	201.93	0.019559	1.15	0.67	6.29	0.93
T2	809.63	Regional	DonPhaseII_Final_Baseline	51.01	201.06	203.72	2.55	203.81	0.001679	2.16	60.47	65.85	0.43
T2	809.63	Regional	DonPhaseII_Final_Proposed	51.01	201.06	203.72	2.55	203.81	0.001679	2.16	60.47	65.85	0.43
T2	809.63	350 Year	DonPhaseII_Final_Baseline	7.27	201.06	202.23	1.07	202.34	0.003383	1.72	8.50	18.32	0.53
T2	809.63	350 Year	DonPhaseII_Final_Proposed	7.27	201.06	202.23	1.07	202.34	0.003383	1.72	8.50	18.32	0.53
T2	809.63	100 Year	DonPhaseII_Final_Baseline	4.03	201.06	201.87	0.71	202.02	0.006511	1.80	2.88	7.99	0.69
T2	809.63	1.3*100 Year	DonPhaseII_Final_Proposed	5.24	201.06	201.99	0.83	202.16	0.005890	1.92	4.34	15.58	0.67
T2	809.63	50 Year	DonPhaseII_Final_Baseline	3.16	201.06	201.77	0.61	201.90	0.006828	1.67	2.31	5.25	0.68
T2	809.63	100 Year	DonPhaseII_Final_Proposed	4.03	201.06	201.87	0.71	202.02	0.006511	1.80	2.88	7.99	0.69
T2	809.63	25 Year	DonPhaseII_Final_Baseline	2.27	201.06	201.66	0.50	201.77	0.007125	1.49	1.76	4.71	0.68
T2	809.63	50 Year	DonPhaseII_Final_Proposed	3.16	201.06	201.77	0.61	201.90	0.006828	1.67	2.31	5.25	0.68
T2	809.63	10 Year	DonPhaseII_Final_Baseline	1.63	201.06	201.57	0.41	201.66	0.007216	1.32	1.37	4.27	0.66
T2	809.63	25 Year	DonPhaseII_Final_Proposed	2.27	201.06	201.66	0.50	201.77	0.007125	1.49	1.76	4.71	0.68
T2	809.63	5 Year	DonPhaseII_Final_Baseline	1.18	201.06	201.50	0.34	201.57	0.007103	1.16	1.09	3.91	0.63
T2	809.63	10 Year	DonPhaseII_Final_Proposed	1.63	201.06	201.57	0.41	201.66	0.007216	1.32	1.37	4.27	0.66
T2	809.63	2 Year	DonPhaseII_Final_Baseline	0.59	201.06	201.40	0.24	201.43	0.006206	0.85	0.71	3.34	0.56
T2	809.63	5 Year	DonPhaseII_Final_Proposed	1.18	201.06	201.50	0.34	201.57	0.007103	1.16	1.09	3.91	0.63
T2	809.63	2 Year	DonPhaseII_Final_Proposed	0.59	201.06	201.40	0.24	201.43	0.006206	0.85	0.71	3.34	0.56
T2	800.69	Regional	DonPhaseII_Final_Baseline	51.01	200.91	203.71	2.76	203.79	0.001259	1.99	68.19	69.88	0.38
T2	800.69	Regional	DonPhaseII_Final_Proposed	51.01	200.91	203.71	2.76	203.79	0.001259	1.99	68.19	69.88	0.38
T2	800.69	350 Year	DonPhaseII_Final_Baseline	7.27	200.91	202.24	1.30	202.30	0.001284	1.22	10.48	15.14	0.34
T2	800.69	350 Year	DonPhaseII_Final_Proposed	7.27	200.91	202.24	1.30	202.30	0.001284	1.22	10.48	15.14	0.34
T2	800.69	100 Year	DonPhaseII_Final_Baseline	4.03	200.91	201.90	0.96	201.94	0.001305	1.00	6.85	10.68	0.33
T2	800.69	1.3*100 Year	DonPhaseII_Final_Proposed	5.24	200.91	202.04	1.09	202.08	0.001310	1.10	8.26	13.53	0.33
T2	800.69	50 Year	DonPhaseII_Final_Baseline	3.16	200.91	201.80	0.85	201.83	0.001279	0.92	5.78	10.11	0.32
T2	800.69	100 Year	DonPhaseII_Final_Proposed	4.03	200.91	201.90	0.96	201.94	0.001305	1.00	6.85	10.68	0.33
T2	800.69	25 Year	DonPhaseII_Final_Baseline	2.27	200.91	201.68	0.73	201.70	0.001178	0.80	4.63	9.51	0.30
T2	800.69	50 Year	DonPhaseII_Final_Proposed	3.16	200.91	201.80	0.85	201.83	0.001279	0.92	5.78	10.11	0.32
T2	800.69	10 Year	DonPhaseII_Final_Baseline	1.63	200.91	201.59	0.64	201.60	0.001036	0.68	3.76	9.03	0.27
T2	800.69	25 Year	DonPhaseII_Final_Proposed	2.27	200.91	201.68	0.73	201.70	0.001178	0.80	4.63	9.51	0.30
T2	800.69	5 Year	DonPhaseII_Final_Baseline	1.18	200.91	201.51	0.57	201.53	0.000875	0.58	3.11	8.67	0.25
T2	800.69	10 Year	DonPhaseII_Final_Proposed	1.63	200.91	201.59	0.64	201.60	0.001036	0.68	3.76	9.03	0.27
T2	800.69	2 Year	DonPhaseII_Final_Baseline	0.59	200.91	201.40	0.46	201.41	0.000516	0.38	2.18	8.05	0.18
T2	800.69	5 Year	DonPhaseII_Final_Proposed	1.18	200.91	201.51	0.57	201.53	0.000875	0.58	3.11	8.67	0.25
T2	800.69	2 Year	DonPhaseII_Final_Proposed	0.59	200.91	201.40	0.46	201.41	0.000516	0.38	2.18	8.05	0.18
T2	782.1		Culvert										
T2	767.18	Regional	DonPhaseII_Final_Baseline	51.20	200.94	202.79	1.81	203.52	0.009482	4.12	17.61	14.78	0.98
T2	767.18	Regional	DonPhaseII_Final_Proposed	51.20	200.94	202.79	1.81	203.52	0.009482	4.12	17.61	14.78	0.98
T2	767.18	350 Year	DonPhaseII_Final_Baseline	7.24	200.94	201.53	0.55	201.78	0.013664	2.25	3.68	8.30	0.96
T2	767.18	350 Year	DonPhaseII_Final_Proposed	7.24	200.94	201.53	0.55	201.78	0.013664	2.25	3.68	8.30	0.96
T2	767.18	100 Year	DonPhaseII_Final_Baseline	3.84	200.94	201.35	0.37	201.52	0.016026	1.84	2.23	7.12	0.97
T2	767.18	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	200.94	201.42	0.44	201.61	0.014973	2.00	2.74	7.55	0.97
T2	767.18	50 Year	DonPhaseII_Final_Baseline	2.93	200.94	201.29	0.31	201.43	0.017169	1.69	1.81	6.75	0.98
T2	767.18	100 Year	DonPhaseII_Final_Proposed	3.84	200.94	201.35	0.37	201.52	0.016026	1.84	2.23	7.12	0.97
T2	767.18	25 Year	DonPhaseII_Final_Baseline	2.13	200.94	201.23	0.25	201.35	0.018881	1.54	1.42	6.39	0.99
T2	767.18	50 Year	DonPhaseII_Final_Proposed	2.93	200.94	201.29	0.31	201.43	0.017169	1.69	1.81	6.75	0.98
T2	767.18	10 Year	DonPhaseII_Final_Baseline	1.56	200.94	201.18	0.20	201.28	0.020588	1.40	1.13	6.05	1.00
T2	767.18	25 Year	DonPhaseII_Final_Proposed	2.13	200.94	201.23	0.25	201.35	0.018881	1.54	1.42	6.39	0.99
T2	767.18	5 Year	DonPhaseII_Final_Baseline	1.10	200.94	201.14	0.16	201.22	0.022031	1.24	0.89	5.73	0.99
T2	767.18	10 Year	DonPhaseII_Final_Proposed	1.56	200.94	201.18	0.20	201.28	0.020588	1.40	1.13	6.05	1.00
T2	767.18	2 Year	DonPhaseII_Final_Baseline	0.56	200.94	201.08	0.11	201.13	0.025507	1.02	0.55	5.14	1.00
T2	767.18	5 Year	DonPhaseII_Final_Proposed	1.10	200.94	201.14	0.16	201.22	0.022031	1.24	0.89	5.73	0.99
T2	767.18	2 Year	DonPhaseII_Final_Proposed	0.56	200.94	201.08	0.11	201.13	0.025507	1.02	0.55	5.14	1.00
T2	755.65	Regional	DonPhaseII_Final_Baseline	51.20	200.48	202.35	1.79	202.76	0.008262	3.78	31.98	35.11	0.90
T2	755.65	Regional	DonPhaseII_Final_Proposed	51.20	200.48	202.35	1.79	202.76	0.008262	3.78	31.98	35.11	0.90
T2	755.65	350 Year	DonPhaseII_Final_Baseline	7.24	200.48	201.28	0.71	201.53	0.010651	2.33	4.20	12.66	0.88
T2	755.65	350 Year	DonPhaseII_Final_Proposed	7.24	200.48	201.28	0.71	201.53	0.010651	2.33	4.20	12.66	0.88
T2	755.65	100 Year	DonPhaseII_Final_Baseline	3.84	200.48	201.08	0.51	201.24	0.010124	1.81	2.40	6.21	0.81
T2	755.65	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	200.48	201.11	0.55	201.35	0.013319	2.18	2.67	7.54	0.94
T2	755.65	50 Year	DonPhaseII_Final_Baseline	2.93	200.48	201.03	0.46	201.14	0.008439	1.55	2.10	5.85	0.73

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	755.65	5 Year	DonPhaseII_Final_Baseline	1.10	200.48	200.89	0.33	200.93	0.003867	0.83	1.39	4.87	0.47
T2	755.65	10 Year	DonPhaseII_Final_Proposed	1.56	200.48	200.93	0.37	200.99	0.005131	1.04	1.60	5.18	0.55
T2	755.65	2 Year	DonPhaseII_Final_Baseline	0.56	200.48	200.80	0.24	200.82	0.002918	0.60	0.96	4.25	0.39
T2	755.65	5 Year	DonPhaseII_Final_Proposed	1.10	200.48	200.89	0.33	200.93	0.003867	0.83	1.39	4.87	0.47
T2	755.65	2 Year	DonPhaseII_Final_Proposed	0.56	200.48	200.80	0.24	200.82	0.002918	0.60	0.96	4.25	0.39
T2	735.02	Regional	DonPhaseII_Final_Baseline	51.20	200.44	201.55	1.03	201.87	0.016843	3.75	30.35	57.59	1.18
T2	735.02	Regional	DonPhaseII_Final_Proposed	51.20	200.44	201.55	1.03	201.87	0.016843	3.75	30.35	57.59	1.18
T2	735.02	350 Year	DonPhaseII_Final_Baseline	7.24	200.44	201.02	0.49	201.11	0.009645	1.74	8.88	35.02	0.79
T2	735.02	350 Year	DonPhaseII_Final_Proposed	7.24	200.44	201.02	0.49	201.11	0.009645	1.74	8.88	35.02	0.79
T2	735.02	100 Year	DonPhaseII_Final_Baseline	3.84	200.44	200.88	0.35	200.98	0.013410	1.64	4.35	26.41	0.88
T2	735.02	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	200.44	200.93	0.41	201.03	0.011177	1.66	6.11	32.71	0.82
T2	735.02	50 Year	DonPhaseII_Final_Baseline	2.93	200.44	200.84	0.32	200.93	0.011725	1.44	3.59	23.45	0.81
T2	735.02	100 Year	DonPhaseII_Final_Proposed	3.84	200.44	200.88	0.35	200.98	0.013410	1.64	4.35	26.41	0.88
T2	735.02	25 Year	DonPhaseII_Final_Baseline	2.13	200.44	200.80	0.27	200.88	0.012417	1.33	2.54	20.34	0.81
T2	735.02	50 Year	DonPhaseII_Final_Proposed	2.93	200.44	200.84	0.32	200.93	0.011725	1.44	3.59	23.45	0.81
T2	735.02	10 Year	DonPhaseII_Final_Baseline	1.56	200.44	200.76	0.24	200.83	0.012515	1.22	1.81	18.99	0.80
T2	735.02	25 Year	DonPhaseII_Final_Proposed	2.13	200.44	200.80	0.27	200.88	0.012417	1.33	2.54	20.34	0.81
T2	735.02	5 Year	DonPhaseII_Final_Baseline	1.10	200.44	200.70	0.19	200.78	0.017780	1.23	0.93	8.49	0.91
T2	735.02	10 Year	DonPhaseII_Final_Proposed	1.56	200.44	200.76	0.24	200.83	0.012515	1.22	1.81	18.99	0.80
T2	735.02	2 Year	DonPhaseII_Final_Baseline	0.56	200.44	200.62	0.12	200.68	0.025700	1.09	0.51	4.38	1.02
T2	735.02	5 Year	DonPhaseII_Final_Proposed	1.10	200.44	200.70	0.19	200.78	0.017780	1.23	0.93	8.49	0.91
T2	735.02	2 Year	DonPhaseII_Final_Proposed	0.56	200.44	200.62	0.12	200.68	0.025700	1.09	0.51	4.38	1.02
T2	681.94	Regional	DonPhaseII_Final_Baseline	51.20	199.83	201.05	1.21	201.17	0.009139	3.09	46.70	69.77	0.90
T2	681.94	Regional	DonPhaseII_Final_Proposed	51.20	199.83	201.05	1.21	201.17	0.009139	3.09	46.70	69.77	0.90
T2	681.94	350 Year	DonPhaseII_Final_Baseline	7.24	199.83	200.46	0.61	200.57	0.011037	2.17	8.40	45.13	0.88
T2	681.94	350 Year	DonPhaseII_Final_Proposed	7.24	199.83	200.46	0.61	200.57	0.011037	2.17	8.40	45.13	0.88
T2	681.94	100 Year	DonPhaseII_Final_Baseline	3.84	199.83	200.41	0.56	200.46	0.005157	1.40	6.30	34.22	0.60
T2	681.94	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	199.83	200.41	0.56	200.49	0.008719	1.82	6.30	34.20	0.77
T2	681.94	50 Year	DonPhaseII_Final_Baseline	2.93	199.83	200.41	0.56	200.44	0.003001	1.07	6.30	34.25	0.45
T2	681.94	100 Year	DonPhaseII_Final_Proposed	3.84	199.83	200.41	0.56	200.46	0.005157	1.40	6.30	34.22	0.60
T2	681.94	25 Year	DonPhaseII_Final_Baseline	2.13	199.83	200.37	0.53	200.44	0.005658	1.40	3.49	29.83	0.62
T2	681.94	50 Year	DonPhaseII_Final_Proposed	2.93	199.83	200.41	0.56	200.44	0.003001	1.07	6.30	34.25	0.45
T2	681.94	10 Year	DonPhaseII_Final_Baseline	1.56	199.83	200.30	0.46	200.37	0.005760	1.28	2.24	18.16	0.61
T2	681.94	25 Year	DonPhaseII_Final_Proposed	2.13	199.83	200.37	0.53	200.44	0.005658	1.40	3.49	29.83	0.62
T2	681.94	5 Year	DonPhaseII_Final_Baseline	1.10	199.83	200.23	0.38	200.28	0.005540	1.12	1.53	11.25	0.58
T2	681.94	10 Year	DonPhaseII_Final_Proposed	1.56	199.83	200.30	0.46	200.37	0.005760	1.28	2.24	18.16	0.61
T2	681.94	2 Year	DonPhaseII_Final_Baseline	0.56	199.83	200.12	0.27	200.15	0.005056	0.86	0.93	8.12	0.52
T2	681.94	5 Year	DonPhaseII_Final_Proposed	1.10	199.83	200.23	0.38	200.28	0.005540	1.12	1.53	11.25	0.58
T2	681.94	2 Year	DonPhaseII_Final_Proposed	0.56	199.83	200.12	0.27	200.15	0.005056	0.86	0.93	8.12	0.52
T2	588.73	Regional	DonPhaseII_Final_Baseline	51.20	199.04	200.28	1.20	200.51	0.016939	4.19	38.84	64.48	1.22
T2	588.73	Regional	DonPhaseII_Final_Proposed	51.20	199.04	200.28	1.20	200.51	0.016939	4.19	38.84	64.48	1.22
T2	588.73	350 Year	DonPhaseII_Final_Baseline	7.24	199.04	199.88	0.80	199.97	0.006326	1.96	13.63	61.94	0.70
T2	588.73	350 Year	DonPhaseII_Final_Proposed	7.24	199.04	199.88	0.80	199.97	0.006326	1.96	13.63	61.94	0.70
T2	588.73	100 Year	DonPhaseII_Final_Baseline	3.84	199.04	199.74	0.66	199.86	0.007480	1.87	5.84	41.14	0.73
T2	588.73	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	199.04	199.82	0.74	199.91	0.005968	1.80	9.79	57.84	0.67
T2	588.73	50 Year	DonPhaseII_Final_Baseline	2.93	199.04	199.71	0.63	199.80	0.005879	1.61	4.73	34.05	0.65
T2	588.73	100 Year	DonPhaseII_Final_Proposed	3.84	199.04	199.74	0.66	199.86	0.007480	1.87	5.84	41.14	0.73
T2	588.73	25 Year	DonPhaseII_Final_Baseline	2.13	199.04	199.52	0.44	199.71	0.015655	2.07	1.48	4.80	0.99
T2	588.73	50 Year	DonPhaseII_Final_Proposed	2.93	199.04	199.71	0.63	199.80	0.005879	1.61	4.73	34.05	0.65
T2	588.73	10 Year	DonPhaseII_Final_Baseline	1.56	199.04	199.45	0.37	199.61	0.015841	1.85	1.16	4.36	0.97
T2	588.73	25 Year	DonPhaseII_Final_Proposed	2.13	199.04	199.52	0.44	199.71	0.015655	2.07	1.48	4.80	0.99
T2	588.73	5 Year	DonPhaseII_Final_Baseline	1.10	199.04	199.38	0.30	199.51	0.016807	1.66	0.87	3.96	0.97
T2	588.73	10 Year	DonPhaseII_Final_Proposed	1.56	199.04	199.45	0.37	199.61	0.015841	1.85	1.16	4.36	0.97
T2	588.73	2 Year	DonPhaseII_Final_Baseline	0.56	199.04	199.28	0.20	199.37	0.019318	1.35	0.50	3.34	0.97
T2	588.73	5 Year	DonPhaseII_Final_Proposed	1.10	199.04	199.38	0.30	199.51	0.016807	1.66	0.87	3.96	0.97
T2	588.73	2 Year	DonPhaseII_Final_Proposed	0.56	199.04	199.28	0.20	199.37	0.019318	1.35	0.50	3.34	0.97
T2	528.08	Regional	DonPhaseII_Final_Baseline	51.20	198.36	199.85	1.42	200.00	0.007161	3.03	47.40	62.87	0.81
T2	528.08	Regional	DonPhaseII_Final_Proposed	51.20	198.36	199.85	1.42	200.00	0.007161	3.03	47.40	62.87	0.81
T2	528.08	350 Year	DonPhaseII_Final_Baseline	7.24	198.36	199.26	0.83	199.37	0.005321	1.82	10.94	58.16	0.64
T2	528.08	350 Year	DonPhaseII_Final_Proposed	7.24	198.36	199.26	0.83	199.37	0.005321	1.82	10.94	58.16	0.64
T2	528.08	100 Year	DonPhaseII_Final_Baseline	3.84	198.36	199.05	0.62	199.19	0.007353	1.77	3.55	15.35	0.72
T2	528.08	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	198.36	199.10	0.67	199.27	0.008679	2.02	4.44	22.04	0.79
T2	528.08	50 Year	DonPhaseII_Final_Baseline	2.93	198.36	198.98	0.55	199.10	0.007098	1.61	2.64	11.40	0.69
T2	528.08	100 Year	DonPhaseII_Final_Proposed	3.84	198.36	199.05	0.62	199.19	0.007353	1.77	3.55	15.35	0.72
T2	528.08	25 Year	DonPhaseII_Final_Baseline	2.13	198.36	198.96	0.53	199.03	0.004444	1.24	2.40	10.51	0.54
T2	528.08	50 Year	DonPhaseII_Final_Proposed	2.93	198.36	198.98	0.55	199.10	0.007098	1.61	2.64	11.40	0.69
T2	528.08	10 Year	DonPhaseII_Final_Baseline	1.56	198.36	198.89	0.46	198.94	0.004076	1.08	1.78	6.98	0.51
T2	528.08	25 Year	DonPhaseII_Final_Proposed	2.13	198.36	198.96	0.53	199.03	0.004444	1.24	2.40	10.51	0.54
T2	528.08	5 Year	DonPhaseII_Final_Baseline	1.10	198.36	198.80	0.37	198.84	0.004337	0.96	1.31	4.50	0.50
T2	528.08	10 Year	DonPhaseII_Final_Proposed	1.56	198.36	198.89	0.46	198.94	0.004076	1.08	1.78	6.98	0.51
T2	528.08	2 Year	DonPhaseII_Final_Baseline	0.56	198.36	198.69	0.26	198.72	0.003526	0.69	0.87	3.86	0.43
T2	528.08	5 Year	DonPhaseII_Final_Proposed	1.10	198.36	198.80	0.37	198.84	0.004337	0.96	1.31	4.50	0.50
T2	528.08	2 Year	DonPhaseII_Final_Proposed	0.56	198.36	198.69	0.26	198.72	0.003526	0.69	0.87	3.86	0.43
T2	500	Regional	DonPhaseII_Final_Baseline	51.20	198.24	199.78	1.37	199.83	0.003542	2.09	60.97	56.12	0.57
T2	500	Regional	DonPhaseII_Final_Proposed	51.20	198.24	199.78	1.37	199.83	0.003542	2.09	60.97	56.12	0.57
T2	500	350 Year	DonPhaseII_Final_Baseline	7.24	198.24	198.77	0.37	198.87	0.025801	2.35	8.49	46.15	1.23
T2	500	350 Year	DonPhaseII_Final_Proposed	7.24	198.24	198.77	0.37	198.87	0.025801	2.35	8.49	46.15	1.23
T2	500	100 Year	DonPhaseII_Final_Baseline	3.84	198.24	198.66	0.25	198.76	0.038642	2.23	4.04	30.47	1.42
T2	500	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	198.24	198.73	0.33	198.81	0.021797	2.00	6.76	40.28	1.11
T2	500	50 Year	DonPhaseII_Final_Baseline	2.93	198.24	198.64	0.23	198.71	0.029715	1.86	3.50	27.19	1.23
T2	500	100 Year	DonPhaseII_Final_Proposed	3.84	198.24	198.66	0.25	198.76	0.038642	2.23	4.04	30.47	1.42
T2	500	25 Year	DonPhaseII_Final_Baseline	2.13	198.24	198.59	0.18	198.72	0.051378	2.08	1.66	15.47	1.55
T2	500	50 Year	DonPhaseII_Final_Proposed	2.93	198.24	198.64	0.23	198.71	0.029715	1.86	3.50	27.19	1.23
T2	500	10 Year	DonPhaseII_Final_Baseline	1.56	198.24	198.55	0.15	198.65	0.051276	1.78	1.30	13.54	1.49
T2	500	25 Year	DonPhaseII_Final_Proposed	2.13	198.24	198.59	0.18	198.72	0.051378	2.08	1.66	15.47	1.55
T2	500	5 Year	DonPhaseII_Final_Baseline	1.10	198.24	198.57	0.16						

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	413.53	Regional	DonPhaseII_Final_Proposed	51.20	197.53	199.70	2.11	199.74	0.001181	1.60	75.21	47.73	0.35
T2	413.53	350 Year	DonPhaseII_Final_Baseline	7.24	197.53	198.41	0.82	198.43	0.001335	0.91	19.61	37.10	0.32
T2	413.53	350 Year	DonPhaseII_Final_Proposed	7.24	197.53	198.41	0.82	198.43	0.001335	0.91	19.61	37.10	0.32
T2	413.53	100 Year	DonPhaseII_Final_Baseline	3.84	197.53	198.15	0.56	198.17	0.002464	0.95	10.33	33.64	0.41
T2	413.53	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	197.53	198.25	0.66	198.26	0.001818	0.91	13.75	34.74	0.36
T2	413.53	50 Year	DonPhaseII_Final_Baseline	2.93	197.53	198.07	0.48	198.10	0.003043	0.96	7.89	32.86	0.44
T2	413.53	100 Year	DonPhaseII_Final_Proposed	3.84	197.53	198.15	0.56	198.17	0.002464	0.95	10.33	33.64	0.41
T2	413.53	25 Year	DonPhaseII_Final_Baseline	2.13	197.53	198.02	0.43	198.04	0.003049	0.89	6.20	32.32	0.43
T2	413.53	50 Year	DonPhaseII_Final_Proposed	2.93	197.53	198.07	0.48	198.10	0.003043	0.96	7.89	32.86	0.44
T2	413.53	10 Year	DonPhaseII_Final_Baseline	1.56	197.53	198.02	0.43	198.03	0.001666	0.66	6.16	32.30	0.32
T2	413.53	25 Year	DonPhaseII_Final_Proposed	2.13	197.53	198.02	0.43	198.04	0.003049	0.89	6.20	32.32	0.43
T2	413.53	5 Year	DonPhaseII_Final_Baseline	1.10	197.53	197.94	0.34	197.98	0.005372	1.02	1.47	27.65	0.56
T2	413.53	10 Year	DonPhaseII_Final_Proposed	1.56	197.53	198.02	0.43	198.03	0.001666	0.66	6.16	32.30	0.32
T2	413.53	2 Year	DonPhaseII_Final_Baseline	0.56	197.53	197.83	0.24	197.86	0.005280	0.80	0.83	15.39	0.52
T2	413.53	5 Year	DonPhaseII_Final_Proposed	1.10	197.53	197.94	0.34	197.98	0.005372	1.02	1.47	27.65	0.56
T2	413.53	2 Year	DonPhaseII_Final_Proposed	0.56	197.53	197.83	0.24	197.86	0.005280	0.80	0.83	15.39	0.52
T2	365.39	Regional	DonPhaseII_Final_Baseline	51.20	197.22	199.66	2.37	199.71	0.001189	1.74	75.19	49.95	0.36
T2	365.39	Regional	DonPhaseII_Final_Proposed	51.20	197.22	199.66	2.37	199.71	0.001189	1.74	75.19	49.95	0.36
T2	365.39	350 Year	DonPhaseII_Final_Baseline	7.24	197.22	198.36	1.07	198.39	0.001385	1.10	17.29	33.80	0.34
T2	365.39	350 Year	DonPhaseII_Final_Proposed	7.24	197.22	198.36	1.07	198.39	0.001385	1.10	17.29	33.80	0.34
T2	365.39	100 Year	DonPhaseII_Final_Baseline	3.84	197.22	198.04	0.76	198.09	0.002346	1.14	7.98	25.34	0.42
T2	365.39	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	197.22	198.17	0.89	198.21	0.001726	1.09	11.55	29.09	0.37
T2	365.39	50 Year	DonPhaseII_Final_Baseline	2.93	197.22	197.90	0.61	197.97	0.004137	1.32	4.65	20.87	0.54
T2	365.39	100 Year	DonPhaseII_Final_Proposed	3.84	197.22	198.04	0.76	198.09	0.002346	1.14	7.98	25.34	0.42
T2	365.39	25 Year	DonPhaseII_Final_Baseline	2.13	197.22	197.75	0.46	197.86	0.007815	1.50	2.06	11.16	0.70
T2	365.39	50 Year	DonPhaseII_Final_Proposed	2.93	197.22	197.90	0.61	197.97	0.004137	1.32	4.65	20.87	0.54
T2	365.39	10 Year	DonPhaseII_Final_Baseline	1.56	197.22	197.67	0.38	197.76	0.008309	1.37	1.45	5.87	0.70
T2	365.39	25 Year	DonPhaseII_Final_Proposed	2.13	197.22	197.75	0.46	197.86	0.007815	1.50	2.06	11.16	0.70
T2	365.39	5 Year	DonPhaseII_Final_Baseline	1.10	197.22	197.60	0.31	197.67	0.008676	1.22	1.06	4.80	0.70
T2	365.39	10 Year	DonPhaseII_Final_Proposed	1.56	197.22	197.67	0.38	197.76	0.008309	1.37	1.45	5.87	0.70
T2	365.39	2 Year	DonPhaseII_Final_Baseline	0.56	197.22	197.50	0.21	197.54	0.009123	0.95	0.63	3.71	0.67
T2	365.39	5 Year	DonPhaseII_Final_Proposed	1.10	197.22	197.60	0.31	197.67	0.008676	1.22	1.06	4.80	0.70
T2	365.39	2 Year	DonPhaseII_Final_Proposed	0.56	197.22	197.50	0.21	197.54	0.009123	0.95	0.63	3.71	0.67
T2	360.04	Regional	DonPhaseII_Final_Baseline	51.20	197.18	199.55	2.32	199.68	0.002506	2.49	58.16	51.14	0.52
T2	360.04	Regional	DonPhaseII_Final_Proposed	51.20	197.18	199.55	2.32	199.68	0.002506	2.49	58.16	51.14	0.52
T2	360.04	350 Year	DonPhaseII_Final_Baseline	7.24	197.18	198.18	0.94	198.34	0.005182	1.97	6.43	12.24	0.65
T2	360.04	350 Year	DonPhaseII_Final_Proposed	7.24	197.18	198.18	0.94	198.34	0.005182	1.97	6.43	12.24	0.65
T2	360.04	100 Year	DonPhaseII_Final_Baseline	3.84	197.18	197.93	0.69	198.05	0.005368	1.62	3.59	9.81	0.62
T2	360.04	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	197.18	198.04	0.81	198.17	0.004782	1.70	4.82	11.16	0.60
T2	360.04	50 Year	DonPhaseII_Final_Baseline	2.93	197.18	197.82	0.58	197.93	0.006035	1.53	2.63	7.88	0.64
T2	360.04	100 Year	DonPhaseII_Final_Proposed	3.84	197.18	197.93	0.69	198.05	0.005368	1.62	3.59	9.81	0.62
T2	360.04	25 Year	DonPhaseII_Final_Baseline	2.13	197.18	197.72	0.48	197.81	0.006328	1.39	1.94	6.14	0.64
T2	360.04	50 Year	DonPhaseII_Final_Proposed	2.93	197.18	197.82	0.58	197.93	0.006035	1.53	2.63	7.88	0.64
T2	360.04	10 Year	DonPhaseII_Final_Baseline	1.56	197.18	197.64	0.40	197.71	0.006565	1.25	1.48	5.11	0.63
T2	360.04	25 Year	DonPhaseII_Final_Proposed	2.13	197.18	197.72	0.48	197.81	0.006328	1.39	1.94	6.14	0.64
T2	360.04	5 Year	DonPhaseII_Final_Baseline	1.10	197.18	197.57	0.33	197.62	0.006674	1.10	1.13	4.50	0.61
T2	360.04	10 Year	DonPhaseII_Final_Proposed	1.56	197.18	197.64	0.40	197.71	0.006565	1.25	1.48	5.11	0.63
T2	360.04	2 Year	DonPhaseII_Final_Baseline	0.56	197.18	197.46	0.22	197.49	0.006783	0.85	0.69	3.73	0.58
T2	360.04	5 Year	DonPhaseII_Final_Proposed	1.10	197.18	197.57	0.33	197.62	0.006674	1.10	1.13	4.50	0.61
T2	360.04	2 Year	DonPhaseII_Final_Proposed	0.56	197.18	197.46	0.22	197.49	0.006783	0.85	0.69	3.73	0.58
T2	359.12		Bridge										
T2	353.9	Regional	DonPhaseII_Final_Baseline	51.20	196.84	199.19	2.28	199.54	0.006654	3.98	40.06	45.83	0.84
T2	353.9	Regional	DonPhaseII_Final_Proposed	51.20	196.84	199.19	2.28	199.54	0.006654	3.98	40.06	45.83	0.84
T2	353.9	350 Year	DonPhaseII_Final_Baseline	7.24	196.84	197.88	0.97	198.15	0.008799	2.59	4.89	10.13	0.84
T2	353.9	350 Year	DonPhaseII_Final_Proposed	7.24	196.84	197.88	0.97	198.15	0.008799	2.59	4.89	10.13	0.84
T2	353.9	100 Year	DonPhaseII_Final_Baseline	3.84	196.84	197.55	0.64	197.80	0.012266	2.33	2.28	5.89	0.93
T2	353.9	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	196.84	197.65	0.74	197.94	0.012081	2.54	2.91	6.91	0.94
T2	353.9	50 Year	DonPhaseII_Final_Baseline	2.93	196.84	197.45	0.54	197.67	0.013537	2.18	1.73	4.88	0.95
T2	353.9	100 Year	DonPhaseII_Final_Proposed	3.84	196.84	197.55	0.64	197.80	0.012266	2.33	2.28	5.89	0.93
T2	353.9	25 Year	DonPhaseII_Final_Baseline	2.13	196.84	197.35	0.44	197.54	0.014798	1.99	1.28	4.07	0.96
T2	353.9	50 Year	DonPhaseII_Final_Proposed	2.93	196.84	197.45	0.54	197.67	0.013537	2.18	1.73	4.88	0.95
T2	353.9	10 Year	DonPhaseII_Final_Baseline	1.56	196.84	197.27	0.36	197.43	0.015943	1.81	0.98	3.54	0.96
T2	353.9	25 Year	DonPhaseII_Final_Proposed	2.13	196.84	197.35	0.44	197.54	0.014798	1.99	1.28	4.07	0.96
T2	353.9	5 Year	DonPhaseII_Final_Baseline	1.10	196.84	197.19	0.28	197.33	0.018421	1.65	0.72	3.14	0.99
T2	353.9	10 Year	DonPhaseII_Final_Proposed	1.56	196.84	197.27	0.36	197.43	0.015943	1.81	0.96	3.54	0.96
T2	353.9	2 Year	DonPhaseII_Final_Baseline	0.56	196.84	197.09	0.18	197.18	0.021111	1.32	0.43	2.62	0.99
T2	353.9	5 Year	DonPhaseII_Final_Proposed	1.10	196.84	197.19	0.28	197.33	0.018421	1.65	0.72	3.14	0.99
T2	353.9	2 Year	DonPhaseII_Final_Proposed	0.56	196.84	197.09	0.18	197.18	0.021111	1.32	0.43	2.62	0.99
T2	345.27	Regional	DonPhaseII_Final_Baseline	51.20	196.63	198.38	1.65	198.59	0.007227	3.35	38.98	39.04	0.83
T2	345.27	Regional	DonPhaseII_Final_Proposed	51.20	196.63	198.38	1.65	198.59	0.007227	3.35	38.98	39.04	0.83
T2	345.27	350 Year	DonPhaseII_Final_Baseline	7.24	196.63	197.49	0.76	197.64	0.008076	2.11	8.11	27.16	0.77
T2	345.27	350 Year	DonPhaseII_Final_Proposed	7.24	196.63	197.49	0.76	197.64	0.008076	2.11	8.11	27.16	0.77
T2	345.27	100 Year	DonPhaseII_Final_Baseline	3.84	196.63	197.34	0.61	197.47	0.007615	1.77	4.38	22.11	0.72
T2	345.27	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	196.63	197.40	0.67	197.53	0.007601	1.89	5.84	24.52	0.74
T2	345.27	50 Year	DonPhaseII_Final_Baseline	2.93	196.63	197.23	0.50	197.38	0.010569	1.84	2.36	11.56	0.83
T2	345.27	100 Year	DonPhaseII_Final_Proposed	3.84	196.63	197.34	0.61	197.47	0.007615	1.77	4.38	22.11	0.72
T2	345.27	25 Year	DonPhaseII_Final_Baseline	2.13	196.63	197.12	0.39	197.28	0.014780	1.83	1.40	5.68	0.94
T2	345.27	50 Year	DonPhaseII_Final_Proposed	2.93	196.63	197.23	0.50	197.38	0.010569	1.84	2.36	11.56	0.83
T2	345.27	10 Year	DonPhaseII_Final_Baseline	1.56	196.63	197.04	0.31	197.19	0.017352	1.71	1.01	4.21	0.98
T2	345.27	25 Year	DonPhaseII_Final_Proposed	2.13	196.63	197.12	0.39	197.28	0.014780	1.83	1.40	5.68	0.94
T2	345.27	5 Year	DonPhaseII_Final_Baseline	1.10	196.63	196.98	0.25	197.10	0.018824	1.54	0.76	3.72	0.98
T2	345.27	10 Year	DonPhaseII_Final_Proposed	1.56	196.63	197.04	0.31	197.19	0.017352	1.71	1.01	4.21	0.98
T2	345.27	2 Year	DonPhaseII_Final_Baseline	0.56	196.63	196.88	0.16	196.96	0.023304	1.26	0.45	2.98	1.01
T2	345.27	5 Year	DonPhaseII_Final_Proposed	1.10	196.63	196.98	0.25	197.10	0.018824	1.54	0.76	3.72	0.98
T2	345.27	2 Year	DonPhaseII_Final_Proposed	0.56	196.63	196.88	0.16	196.96	0.023304	1.26	0.45	2.98	1.01
T2	302.15	Regional	DonPhaseII_Final_Baseline	51.20	196.14	197.79	1.60	198.26	0.011364	4.15	28.65	34.94	1.0

HEC-RAS River: PattersonCk Reach: T2 (Continued)

Reach	River Sta	Profile	Plan	Q Total (m³/s)	Min Ch El (m)	W.S. Elev (m)	Hydr Depth C (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m²)	Top Width (m)	Froude # Chl
T2	302.15	50 Year	DonPhaseII_Final_Baseline	2.93	196.14	196.59	0.40	196.74	0.013675	1.81	1.95	6.45	0.91
T2	302.15	100 Year	DonPhaseII_Final_Proposed	3.84	196.14	196.65	0.46	196.84	0.013910	2.01	2.38	7.27	0.94
T2	302.15	25 Year	DonPhaseII_Final_Baseline	2.13	196.14	196.54	0.36	196.65	0.010862	1.49	1.68	6.12	0.80
T2	302.15	50 Year	DonPhaseII_Final_Proposed	2.93	196.14	196.59	0.40	196.74	0.013675	1.81	1.95	6.45	0.91
T2	302.15	10 Year	DonPhaseII_Final_Baseline	1.56	196.14	196.51	0.32	196.58	0.008816	1.24	1.44	5.82	0.70
T2	302.15	25 Year	DonPhaseII_Final_Proposed	2.13	196.14	196.54	0.36	196.65	0.010862	1.49	1.68	6.12	0.80
T2	302.15	5 Year	DonPhaseII_Final_Baseline	1.10	196.14	196.46	0.27	196.51	0.007740	1.04	1.17	5.45	0.64
T2	302.15	10 Year	DonPhaseII_Final_Proposed	1.56	196.14	196.51	0.32	196.58	0.008816	1.24	1.44	5.82	0.70
T2	302.15	2 Year	DonPhaseII_Final_Baseline	0.56	196.14	196.37	0.18	196.40	0.007734	0.80	0.73	4.67	0.60
T2	302.15	5 Year	DonPhaseII_Final_Proposed	1.10	196.14	196.46	0.27	196.51	0.007740	1.04	1.17	5.45	0.64
T2	302.15	2 Year	DonPhaseII_Final_Proposed	0.56	196.14	196.37	0.18	196.40	0.007734	0.80	0.73	4.67	0.60
T2	240	Regional	DonPhaseII_Final_Baseline	51.20	195.33	197.27	1.88	197.52	0.007807	3.82	35.15	29.30	0.89
T2	240	Regional	DonPhaseII_Final_Proposed	51.20	195.33	197.27	1.88	197.52	0.007807	3.82	35.15	29.30	0.89
T2	240	350 Year	DonPhaseII_Final_Baseline	7.24	195.33	196.14	0.75	196.31	0.011787	2.55	7.28	20.01	0.94
T2	240	350 Year	DonPhaseII_Final_Proposed	7.24	195.33	196.14	0.75	196.31	0.011787	2.55	7.28	20.01	0.94
T2	240	100 Year	DonPhaseII_Final_Baseline	3.84	195.33	196.00	0.61	196.13	0.009956	2.03	4.54	17.78	0.83
T2	240	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	195.33	196.05	0.65	196.20	0.011320	2.28	5.42	18.46	0.90
T2	240	50 Year	DonPhaseII_Final_Baseline	2.93	195.33	195.95	0.55	196.06	0.009293	1.85	3.65	17.02	0.79
T2	240	100 Year	DonPhaseII_Final_Proposed	3.84	195.33	196.00	0.61	196.13	0.009956	2.03	4.54	17.78	0.83
T2	240	25 Year	DonPhaseII_Final_Baseline	2.13	195.33	195.86	0.47	195.98	0.011267	1.81	2.31	12.97	0.85
T2	240	50 Year	DonPhaseII_Final_Proposed	2.93	195.33	195.95	0.55	196.06	0.009293	1.85	3.65	17.02	0.79
T2	240	10 Year	DonPhaseII_Final_Baseline	1.56	195.33	195.77	0.38	195.90	0.014569	1.79	1.42	7.53	0.93
T2	240	25 Year	DonPhaseII_Final_Proposed	2.13	195.33	195.86	0.47	195.98	0.011267	1.81	2.31	12.97	0.85
T2	240	5 Year	DonPhaseII_Final_Baseline	1.10	195.33	195.69	0.30	195.81	0.018351	1.70	0.93	4.38	1.00
T2	240	10 Year	DonPhaseII_Final_Proposed	1.56	195.33	195.77	0.38	195.90	0.014569	1.79	1.42	7.53	0.93
T2	240	2 Year	DonPhaseII_Final_Baseline	0.56	195.33	195.59	0.20	195.68	0.020197	1.37	0.54	3.63	0.98
T2	240	5 Year	DonPhaseII_Final_Proposed	1.10	195.33	195.69	0.30	195.81	0.018351	1.70	0.93	4.38	1.00
T2	240	2 Year	DonPhaseII_Final_Proposed	0.56	195.33	195.59	0.20	195.68	0.020197	1.37	0.54	3.63	0.98
T2	199.8	Regional	DonPhaseII_Final_Baseline	51.20	194.57	197.35	2.70	197.39	0.000787	1.53	90.10	55.01	0.30
T2	199.8	Regional	DonPhaseII_Final_Proposed	51.20	194.57	197.35	2.70	197.39	0.000787	1.53	90.10	55.01	0.30
T2	199.8	350 Year	DonPhaseII_Final_Baseline	7.24	194.57	195.38	0.73	195.52	0.008098	2.05	6.34	12.26	0.77
T2	199.8	350 Year	DonPhaseII_Final_Proposed	7.24	194.57	195.38	0.73	195.52	0.008098	2.05	6.34	12.26	0.77
T2	199.8	100 Year	DonPhaseII_Final_Baseline	3.84	194.57	195.27	0.62	195.32	0.003938	1.29	5.10	10.42	0.52
T2	199.8	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	194.57	195.28	0.64	195.37	0.006104	1.63	5.26	10.54	0.65
T2	199.8	50 Year	DonPhaseII_Final_Baseline	2.93	194.57	195.17	0.52	195.22	0.004245	1.19	4.11	9.72	0.53
T2	199.8	100 Year	DonPhaseII_Final_Proposed	3.84	194.57	195.27	0.62	195.32	0.003938	1.29	5.10	10.42	0.52
T2	199.8	25 Year	DonPhaseII_Final_Baseline	2.13	194.57	195.05	0.40	195.10	0.005626	1.15	3.00	8.88	0.58
T2	199.8	50 Year	DonPhaseII_Final_Proposed	2.93	194.57	195.17	0.52	195.22	0.004245	1.19	4.11	9.72	0.53
T2	199.8	10 Year	DonPhaseII_Final_Baseline	1.56	194.57	194.99	0.35	195.03	0.005110	0.99	2.51	8.49	0.54
T2	199.8	25 Year	DonPhaseII_Final_Proposed	2.13	194.57	195.05	0.40	195.10	0.005626	1.15	3.00	8.88	0.58
T2	199.8	5 Year	DonPhaseII_Final_Baseline	1.10	194.57	194.92	0.28	194.95	0.005537	0.90	1.93	8.00	0.54
T2	199.8	10 Year	DonPhaseII_Final_Proposed	1.56	194.57	194.99	0.35	195.03	0.005110	0.99	2.51	8.49	0.54
T2	199.8	2 Year	DonPhaseII_Final_Baseline	0.56	194.57	194.82	0.20	194.84	0.005937	0.75	1.16	7.11	0.53
T2	199.8	5 Year	DonPhaseII_Final_Proposed	1.10	194.57	194.92	0.28	194.95	0.005537	0.90	1.93	8.00	0.54
T2	199.8	2 Year	DonPhaseII_Final_Proposed	0.56	194.57	194.82	0.20	194.84	0.005937	0.75	1.16	7.11	0.53
T2	161.7	Regional	DonPhaseII_Final_Baseline	51.20	194.16	197.34	3.16	197.36	0.000517	1.40	105.64	55.21	0.25
T2	161.7	Regional	DonPhaseII_Final_Proposed	51.20	194.16	197.34	3.16	197.36	0.000517	1.40	105.64	55.21	0.25
T2	161.7	350 Year	DonPhaseII_Final_Baseline	7.24	194.16	195.09	0.91	195.23	0.007237	2.27	8.80	26.24	0.76
T2	161.7	350 Year	DonPhaseII_Final_Proposed	7.24	194.16	195.09	0.91	195.23	0.007237	2.27	8.80	26.24	0.76
T2	161.7	100 Year	DonPhaseII_Final_Baseline	3.84	194.16	194.82	0.64	195.06	0.013223	2.44	3.07	12.95	0.97
T2	161.7	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	194.16	194.99	0.81	195.13	0.006695	2.04	6.46	24.51	0.72
T2	161.7	50 Year	DonPhaseII_Final_Baseline	2.93	194.16	194.73	0.55	194.94	0.013644	2.24	2.20	7.96	0.96
T2	161.7	100 Year	DonPhaseII_Final_Proposed	3.84	194.16	194.82	0.64	195.06	0.013223	2.44	3.07	12.95	0.97
T2	161.7	25 Year	DonPhaseII_Final_Baseline	2.13	194.16	194.68	0.50	194.81	0.009948	1.79	1.82	6.04	0.81
T2	161.7	50 Year	DonPhaseII_Final_Proposed	2.93	194.16	194.73	0.55	194.94	0.013644	2.24	2.20	7.96	0.96
T2	161.7	10 Year	DonPhaseII_Final_Baseline	1.56	194.16	194.55	0.37	194.71	0.015924	1.86	1.18	4.53	0.98
T2	161.7	25 Year	DonPhaseII_Final_Proposed	2.13	194.16	194.68	0.50	194.81	0.009948	1.79	1.82	6.04	0.81
T2	161.7	5 Year	DonPhaseII_Final_Baseline	1.10	194.16	194.48	0.30	194.61	0.016802	1.67	0.88	4.03	0.97
T2	161.7	10 Year	DonPhaseII_Final_Proposed	1.56	194.16	194.55	0.37	194.71	0.015924	1.86	1.18	4.53	0.98
T2	161.7	2 Year	DonPhaseII_Final_Baseline	0.56	194.16	194.38	0.20	194.47	0.019410	1.36	0.50	3.30	0.97
T2	161.7	5 Year	DonPhaseII_Final_Proposed	1.10	194.16	194.48	0.30	194.61	0.016802	1.67	0.88	4.03	0.97
T2	161.7	2 Year	DonPhaseII_Final_Proposed	0.56	194.16	194.38	0.20	194.47	0.019410	1.36	0.50	3.30	0.97
T2	74.01	Regional	DonPhaseII_Final_Baseline	51.20	193.09	197.34	4.06	197.35	0.000088	0.67	178.12	58.23	0.11
T2	74.01	Regional	DonPhaseII_Final_Proposed	51.20	193.09	197.34	4.06	197.35	0.000088	0.67	178.12	58.23	0.11
T2	74.01	350 Year	DonPhaseII_Final_Baseline	7.24	193.09	194.13	0.85	194.16	0.001322	0.92	18.25	39.34	0.32
T2	74.01	350 Year	DonPhaseII_Final_Proposed	7.24	193.09	194.13	0.85	194.16	0.001322	0.92	18.25	39.34	0.32
T2	74.01	100 Year	DonPhaseII_Final_Baseline	3.84	193.09	193.69	0.41	193.85	0.014475	1.87	2.90	17.19	0.93
T2	74.01	1.3*100 Year	DonPhaseII_Final_Proposed	4.99	193.09	193.80	0.53	193.91	0.007716	1.61	6.16	32.38	0.71
T2	74.01	50 Year	DonPhaseII_Final_Baseline	2.93	193.09	193.65	0.37	193.78	0.012950	1.65	2.26	13.44	0.87
T2	74.01	100 Year	DonPhaseII_Final_Proposed	3.84	193.09	193.69	0.41	193.85	0.014475	1.87	2.90	17.19	0.93
T2	74.01	25 Year	DonPhaseII_Final_Baseline	2.13	193.09	193.56	0.29	193.70	0.017658	1.63	1.35	6.74	0.97
T2	74.01	50 Year	DonPhaseII_Final_Proposed	2.93	193.09	193.65	0.37	193.78	0.012950	1.65	2.26	13.44	0.87
T2	74.01	10 Year	DonPhaseII_Final_Baseline	1.56	193.09	193.64	0.36	193.68	0.004065	0.91	2.13	12.82	0.48
T2	74.01	25 Year	DonPhaseII_Final_Proposed	2.13	193.09	193.56	0.29	193.70	0.017658	1.63	1.35	6.74	0.97
T2	74.01	5 Year	DonPhaseII_Final_Baseline	1.10	193.09	193.63	0.35	193.65	0.002200	0.66	2.03	12.31	0.35
T2	74.01	10 Year	DonPhaseII_Final_Proposed	1.56	193.09	193.64	0.36	193.68	0.004065	0.91	2.13	12.82	0.48
T2	74.01	2 Year	DonPhaseII_Final_Baseline	0.56	193.09	193.50	0.24	193.51	0.002508	0.54	1.03	4.53	0.35
T2	74.01	5 Year	DonPhaseII_Final_Proposed	1.10	193.09	193.63	0.35	193.65	0.002200	0.66	2.03	12.31	0.35
T2	74.01	2 Year	DonPhaseII_Final_Proposed	0.56	193.09	193.50	0.24	193.51	0.002508	0.54	1.03	4.53	0.35

APPENDIX E: STORM SEWER SIZING

PROPOSED STORM SEWER SIZING

STORM SEWER DESIGN SHEET

YORK REGION ENGINEERING		STORM DESIGN SHEET (METRIC)										CODED BY: RO		CHECKED BY: JD				
		Quadrant: Southern Quadrant - south of Bloomington Rd										DATE: 7/21/2023		PAGE 1 OF 1				
		Return Period (yrs): 10 I = 1 * 1331.42 / ((t+5.26)^0.84)										PROJECT DESIGN: Teston Rd - 10yr capture						
DRAINAGE AREA												OUTLET PIPE DATA						
FROM	TO	Tc min	I mm/hr	A Ha	Runoff Coeff. C	AC	Accum. AC	Q= 2.78CAI L/s	Lateral Flow L/s	Sum Lat. Flow L/s	Q total L/s	Type Pipe	Size m	L LENGTH PIPE(m)	S SLOPE %	Q L/s	V m/s	T min.
West																		
223	222	10.00	134.94	0.31	0.90	0.28	0.28	105.03		0.00	105.03	Concrete	0.375	50.0	1.24%	195.24	1.8	0.47
222	221	10.47	131.53	0.21	0.90	0.19	0.47	171.86		0.00	171.86	Concrete	0.450	49.8	1.36%	332.49	2.1	0.40
221	220	10.87	128.80	0.17	0.90	0.15	0.62	222.00		0.00	222.00	Concrete	0.450	50.0	1.50%	349.18	2.2	0.38
220	219	11.25	126.31	0.19	0.90	0.17	0.79	277.40		0.00	277.40	Concrete	0.450	50.0	1.50%	349.18	2.2	0.38
219	218	11.63	123.92	0.18	0.90	0.16	0.95	327.27		0.00	327.27	Concrete	0.525	49.9	2.00%	608.20	2.8	0.30
218	217	11.92	122.12	0.19	0.90	0.17	1.12	380.25		0.00	380.25	Concrete	0.525	50.2	2.00%	608.20	2.8	0.30
217	216	12.22	120.37	0.18	0.90	0.16	1.28	428.34		0.00	428.34	Concrete	0.525	50.2	2.07%	618.75	2.9	0.29
216	215	12.51	118.71	0.21	0.90	0.19	1.47	485.11		0.00	485.11	Concrete	0.525	49.8	2.07%	618.75	2.9	0.29
215	214	12.81	117.10	0.30	0.90	0.27	1.74	566.45		0.00	566.45	Concrete	0.525	49.6	5.00%	961.65	4.4	0.19
214	213	12.99	116.10	0.20	0.90	0.18	1.92	619.69		0.00	619.69	Concrete	0.525	50.3	5.00%	961.65	4.4	0.19
213	212	13.18	115.10	0.13	0.90	0.12	2.04	652.76		0.00	652.76	Concrete	0.525	36.0	5.08%	969.31	4.5	0.13
212	211	13.31	114.40	0.16	0.90	0.14	2.18	693.33		0.00	693.33	Concrete	0.525	43.1	5.08%	969.31	4.5	0.16
211	210	13.47	113.58	0.14	0.90	0.13	2.31	729.39		0.00	729.39	Concrete	0.600	38.8	3.71%	1182.67	4.2	0.15
210	209	13.63	112.80	0.17	0.90	0.15	2.46	771.40		0.00	771.40	Concrete	0.600	40.5	3.80%	1196.93	4.2	0.16
209	208	13.79	112.00	0.18	0.90	0.16	2.62	815.79		0.00	815.79	Concrete	0.600	37.4	4.05%	1235.67	4.4	0.14
208	207	13.93	111.31	0.17	0.90	0.15	2.77	857.12		0.00	857.12	Concrete	0.600	28.1	4.30%	1273.24	4.5	0.10
207	206	14.03	110.80	0.24	0.90	0.22	2.99	921.00		0.00	921.00	Concrete	0.600	51.1	4.24%	1264.33	4.5	0.19
206	205	14.23	109.89	0.19	0.90	0.17	3.16	965.36		0.00	965.36	Concrete	0.900	34.2	0.99%	1801.24	2.8	0.20
205	204	14.43	108.94	0.35	0.90	0.32	3.48	1053.97		0.00	1053.97	Concrete	0.900	61.1	0.54%	1330.30	2.1	0.49
204	203	14.91	106.73	0.35	0.90	0.32	3.80	1127.52		0.00	1127.52	Concrete	0.900	35.4	0.95%	1764.47	2.8	0.21
203	202	15.13	105.80	0.17	0.90	0.15	3.95	1161.74		0.00	1161.74	Concrete	0.900	46.6	0.69%	1503.76	2.4	0.33
202	201	15.45	104.38	0.80	0.90	0.72	4.67	1355.19		0.00	1355.19	Concrete	0.975	30.0	0.88%	2102.29	2.8	0.18
201	OUTFALL 2 (TO POND)	15.63	103.64	0.00	0.90	0.00	4.67	1345.52		0.00	1345.52	Concrete	0.975	29.3	0.97%	2207.18	3.0	0.17
300	301	10.00	134.94	0.32	0.90	0.29	0.29	108.79		0.00	108.79	Concrete	0.375	49.9	1.00%	175.33	1.6	0.52
301	302	10.52	131.16	0.18	0.90	0.16	0.45	164.09		0.00	164.09	Concrete	0.375	50.1	1.50%	214.73	1.9	0.43
302	303	10.95	128.24	0.18	0.90	0.16	0.61	217.47		0.00	217.47	Concrete	0.375	50.0	2.20%	260.06	2.4	0.35
303	304	11.31	125.94	0.19	0.90	0.17	0.78	273.08		0.00	273.08	Concrete	0.450	50.0	2.20%	422.88	2.7	0.31
304	305	11.62	123.97	0.17	0.90	0.15	0.93	320.51		0.00	320.51	Concrete	0.450	50.0	2.30%	432.38	2.7	0.31
305	306	11.93	122.11	0.18	0.90	0.16	1.09	370.02		0.00	370.02	Concrete	0.450	50.0	2.50%	450.79	2.8	0.29
306	307	12.22	120.38	0.19	0.90	0.17	1.26	421.67		0.00	421.67	Concrete	0.525	49.7	2.50%	679.99	3.1	0.26
307	308	12.48	118.88	0.17	0.90	0.15	1.41	465.98		0.00	465.98	Concrete	0.525	50.3	2.50%	679.99	3.1	0.27
308	309	12.75	117.40	0.18	0.90	0.16	1.57	512.38		0.00	512.38	Concrete	0.525	50.0	2.50%	679.99	3.1	0.27
309	310	13.02	115.96	0.18	0.90	0.16	1.73	557.71		0.00	557.71	Concrete	0.525	50.0	2.50%	679.99	3.1	0.27
310	311	13.28	114.57	0.18	0.90	0.16	1.89	601.96		0.00	601.96	Concrete	0.525	50.0	2.80%	719.63	3.3	0.25
311	312	13.53	113.28	0.18	0.90	0.16	2.05	645.60		0.00	645.60	Concrete	0.600	49.8	2.80%	1027.44	3.6	0.23
SWMF2	SWMF2	13.76	112.14	0.80	0.90	0.72	2.77	863.55		0.00	863.55	Concrete	3.000	100.2	0.50%	31738.15	4.5	0.37
SWMF2	313	14.13	110.33	0.00	0.90	0.00	2.77	849.62		0.00	849.62	Concrete	0.600	12.2	2.70%	1008.92	3.6	0.06
313	314(OGS2)	14.19	110.06	0.00	0.90	0.00	2.77	847.53		0.00	847.53	Concrete	0.600	25.1	2.80%	1027.44	3.6	0.11
314(OGS2)	OUTFALL -03	14.30	109.52	0.00	0.90	0.00	2.77	843.35		0.00	843.35	Concrete	0.600	23.0	2.90%	1045.62	3.7	0.10
407	406	10.00	134.94	0.17	0.90	0.15	0.15	56.27		0.00	56.27	Concrete	0.300	47.7	0.80%	86.49	1.2	0.65
406	405	10.65	130.29	0.18	0.90	0.16	0.31	112.29		0.00	112.29	Concrete	0.375	49.0	0.80%	156.82	1.4	0.58
405	404	11.22	126.47	0.15	0.90	0.14	0.45	158.21		0.00	158.21	Concrete	0.450	48.3	1.00%	285.11	1.8	0.45
404	403	11.67	123.64	0.18	0.90	0.16	0.61	209.67		0.00	209.67	Concrete	0.450	43.6	1.20%	312.32	2.0	0.37
403 (SWMF 3)	SWMF 3	12.04	121.42	0.20	0.90	0.18	0.79	266.66		0.00	266.66	Concrete	3.000	34.3	0.50%	31738.15	4.5	0.13
SWMF 3	401 (OGS3)	12.17	120.67	0.00	0.90	0.00	0.79	265.02	116.29	116.29	381.31	Concrete	0.450	29.0	2.50%	450.79	2.8	0.17
401 (OGS3)	OUTFALL -04	12.34	119.69	0.00	0.90	0.00	0.79	262.86		116.29	379.15	Concrete	0.450	30.7	2.70%	468.48	2.9	0.17
500	501	10.00	134.94	0.34	0.90	0.31	0.31	116.29		0.00	116.29	Concrete	0.375	50.0	0.80%	156.82	1.4	0.59
501 (SWMF 4)	SWMF 4	10.59	130.73	0.24	0.90	0.22	0.53	192.61		0.00	192.61	Concrete	1.375	60.0	0.30%	991.55	1.6	0.64
502	503(OGS4)	11.23	126.44	0.00	0.90	0.00	0.53	186.30		0.00	186.30	Concrete	0.375	2.8	1.90%	241.68	2.2	0.02
503(OGS4)	Culvert ED02	11.25	126.30	0.00	0.90	0.00	0.53	186.10		0.00	186.10	Concrete	0.375	3.3	2.00%	247.95	2.2	0.02

n flow ratio

STORM SEWER DESIGN SHEET

East																				
606	605	10.00	134.94	0.19	0.90	0.17	0.17	63.77		0.00	63.77	Concrete	0.300	46.0	1.00%	96.70	1.4	0.56	0.013	66%
605	604	10.00	134.94	0.18	0.90	0.16	0.16	60.02		0.00	60.02	Concrete	0.300	48.4	3.00%	167.49	2.4	0.34	0.013	36%
604	603	10.00	134.94	0.15	0.90	0.14	0.14	52.52		0.00	52.52	Concrete	0.375	44.2	3.00%	303.68	2.7	0.27	0.013	17%
603	602	10.56	130.91	0.16	0.90	0.14	0.31	112.82		0.00	112.82	Concrete	0.375	44.4	3.00%	303.68	2.7	0.27	0.013	37%
602 (SWMF5)	601(SWMF5)	10.34	132.46	0.34	0.90	0.31	0.47	173.07		0.00	173.07	Concrete	0.375	75.4	0.30%	991.55	1.6	0.81	0.013	17%
601(SWMF5)	600(OGS5)	10.27	132.98	0.00	0.90	0.00	0.14	51.75		0.00	51.75	Concrete	0.375	4.7	0.50%	123.98	1.1	0.07	0.013	42%
600(OGS5)	Culvert ED02	10.83	129.07	0.00	0.90	0.00	0.31	111.23		0.00	111.23	Concrete	0.375	6.7	0.80%	156.82	1.4	0.08	0.013	71%
700	701	10.00	134.94	0.30	0.90	0.27	0.27	101.28		0.00	101.28	Concrete	0.300	43.8	1.60%	122.32	1.7	0.42	0.013	83%
701	702	10.91	128.54	0.20	0.90	0.18	0.49	175.09		0.00	175.09	Concrete	0.375	50.3	3.50%	328.01	3.0	0.28	0.013	53%
702	703	10.00	134.94	0.22	0.90	0.20	0.20	75.02		0.00	75.02	Concrete	0.375	50.1	3.50%	328.01	3.0	0.28	0.013	23%
703	704	10.42	131.88	0.21	0.90	0.19	0.46	168.65		0.00	168.65	Concrete	0.450	50.1	3.50%	533.38	3.4	0.25	0.013	32%
704	705	11.19	126.68	0.11	0.90	0.10	0.59	207.78		0.00	207.78	Concrete	0.450	30.0	3.50%	533.38	3.4	0.15	0.013	39%
705	706	10.28	132.88	0.13	0.90	0.12	0.32	118.21		0.00	118.21	Concrete	0.450	34.5	3.50%	533.38	3.4	0.17	0.013	22%
706	707	10.67	130.15	0.18	0.90	0.16	0.62	224.32		0.00	224.32	Concrete	0.450	46.7	3.50%	533.38	3.4	0.23	0.013	42%
707	708	11.34	125.73	0.07	0.90	0.06	0.65	227.19		0.00	227.19	Concrete	0.525	17.1	3.50%	804.57	3.7	0.08	0.013	28%
708 (SWMF6)	708A (SWMF6)	10.45	131.66	0.24	0.90	0.22	0.54	197.65		0.00	197.65	Concrete	2.000	63.7	0.24%	7458.05	2.4	0.45	0.013	3%
708A (SWMF6)	709(OGS6)	10.90	128.57	0.10	0.90	0.09	0.71	253.78		0.00	253.78	Concrete	0.525	16.7	2.20%	637.89	2.9	0.09	0.013	40%
709	Ex.STM	12.73	117.51	0.20	0.90	0.18	0.83	271.15		0.00	271.15	Concrete	0.525	9.2	2.60%	693.45	3.2	0.05	0.013	39%
711	710	10.00	134.94	0.34	0.90	0.31	1.02	382.63		0.00	382.63	Concrete	0.525	28.9	2.00%	608.20	2.8	0.17	0.013	63%
710	709	12.78	117.25	0.08	0.90	0.07	0.90	293.37		0.00	293.37	Concrete	0.525	21.4	1.20%	471.11	2.2	0.16	0.013	62%
800	801	10.00	134.94	0.45	0.90	0.41	0.41	153.80		0.00	153.80	Concrete	0.375	36.0	2.00%	247.95	2.2	0.27	0.013	62%
801	802	12.94	116.36	0.17	0.90	0.15	1.05	339.67		0.00	339.67	Concrete	0.450	40.0	2.00%	403.20	2.5	0.26	0.013	84%
802	803	10.00	134.94	0.14	0.90	0.13	0.13	48.77		0.00	48.77	Concrete	0.450	35.5	2.00%	403.20	2.5	0.23	0.013	12%
803	804	10.27	132.98	0.35	0.90	0.32	0.73	269.87		0.00	269.87	Concrete	0.525	128.2	2.00%	608.20	2.8	0.76	0.013	44%
804(SWMF7)	804(SWMF7)	13.20	114.97	0.35	0.90	0.32	1.37	437.88		0.00	437.88	Concrete	1.800	128.2	0.54%	8446.89	3.3	0.64	0.013	5%
804-A	805(OGS7)	10.23	133.23	0.00	0.90	0.00	0.13	48.15		0.00	48.15	Concrete	0.525	30.3	1.50%	526.72	2.4	0.21	0.013	9%
805(OGS7)	OUTFALL8	11.03	127.74	0.00	0.90	0.00	0.73	259.24		0.00	259.24	Concrete	0.525	11.8	1.60%	543.99	2.5	0.08	0.013	48%
906	907	10.00	134.94	0.45	0.90	0.41	0.41	153.80		0.00	153.80	Concrete	0.375	30.8	1.20%	192.06	1.7	0.30	0.013	80%
907	908	11.11	127.23	0.20	0.90	0.18	0.91	321.87		0.00	321.87	Concrete	0.450	49.8	1.80%	382.51	2.4	0.35	0.013	84%
908	909	10.00	134.94	0.11	0.90	0.10	0.10	37.51		0.00	37.51	Concrete	0.450	29.1	1.40%	337.34	2.1	0.23	0.013	11%
909	910	10.30	132.78	0.13	0.90	0.12	0.53	195.64		0.00	195.64	Concrete	0.450	29.1	1.50%	349.18	2.2	0.22	0.013	56%
910	911	11.45	125.02	0.09	0.90	0.08	0.99	344.08		0.00	344.08	Concrete	0.450	17.5	2.10%	413.16	2.6	0.11	0.013	83%
911	SWMF8	10.23	133.26	0.04	0.90	0.03	0.13	48.16		0.00	48.16	Concrete	0.450	5.5	2.00%	403.20	2.5	0.04	0.013	12%
SWMF8	SWMF8	10.52	131.22	0.26	0.90	0.23	0.76	277.24		0.00	277.24	Concrete	2.000	54.3	0.50%	10764.77	3.4	0.26	0.013	3%
SWMF8	912	11.56	124.32	0.01	0.90	0.01	1.00	345.61		0.00	345.61	Concrete	0.525	1.8	1.80%	576.99	2.7	0.01	0.013	60%
912	913	10.27	133.00	0.01	0.90	0.01	0.14	51.76		0.00	51.76	Concrete	0.525	21.1	1.72%	564.02	2.6	0.13	0.013	9%
913	OGS8	10.78	129.40	0.04	0.90	0.03	0.79	284.19		0.00	284.19	Concrete	0.525	3.4	1.60%	543.99	2.5	0.02	0.013	52%
1000	1001	10.00	134.94	0.53	0.90	0.48	0.48	180.06		0.00	180.06	Concrete	0.450	48.3	0.80%	255.01	1.6	0.50	0.013	71%
1001	1002	10.80	129.25	0.16	0.90	0.14	0.93	334.16		0.00	334.16	Concrete	0.450	39.4	2.00%	403.20	2.5	0.26	0.013	83%
1002	EXIST	10.00	134.94	0.13	0.90	0.12	0.12	45.01		0.00	45.01	Concrete	0.450	18.1	1.40%	337.34	2.1	0.14	0.013	13%
1003	1004	10.50	131.32	0.28	0.90	0.25	0.73	266.50		0.00	266.50	Concrete	0.525	50.1	1.40%	508.86	2.4	0.36	0.013	52%
1004	1005	11.06	127.52	0.13	0.90	0.12	1.05	372.24		0.00	372.24	Concrete	0.525	31.7	1.50%	526.72	2.4	0.22	0.013	71%
1101	1102	10.00	134.94	0.34	0.90	0.31	0.31	116.29		0.00	116.29	Concrete	0.375	44.1	0.80%	156.82	1.4	0.52	0.013	74%
1102	1103	11.28	126.12	0.53	0.90	0.48	1.53	536.43		0.00	536.43	Concrete	0.450	48.1	5.00%	637.52	4.0	0.20	0.013	84%

APPENDIX F: SWM FACILITY SIZING

Outlet ID	Catchment ID	Storage ID	Storage Facility Type *	Storage Facility Dimensions	Provided Volume (m3)	Outlet TO	SWM Requirement					
							Water Quantity Control					Erosion Control (5mm Runoff from Inc.Imp)
							90% Runoff (6 hr total rainfall - 100 Year)	Detention Storage (m³)		Target Release Rate L/S		
								Post to Pre VO [SCS 12HR - 15min] 100YR	Post to Unit Rate	Pre (100 Year) -	Unit Rate (100 Year)	
Outlet #1	201	-	-	-	-	Existing Storm Sewer	-		-	-	-	-
Outlet #2	202	Outlet to New Wet/Dry Pond (SWMF1)		-	-	Existing Storm Sewer	36	1095	-	163	-	3
Outlet #3	203	SWMF1	Surface Pond	Top of Pond Elev= 261.8m Bottom of Pond Elev= 259.5m	Avg (Top pf Pond Area + (Bottom of Pond Area) * Elev Dif (2.3) = 3536.25	Ditch,Then Sewer	1258		2291	704	64	89
Outlet #4.1	241	SWMF2	Underground Storage	Twin Pipe 2.55m (Diameter) x 118.2m (Length)	1207	East Don River	1465	1088	1453	132	44	103
Outlet #4.2	242	SWMF3	Underground Storage	3m (Diameter) x 34.3m (Length)	242	East Don River	333	212	358	55	10	23
Outlet #5	205	0.41 ha will be diverted to Outlet 4.2 by a new sewer. No stormwater management is required.		0.9m (Diameter) x 60m (Length)	-	Existing Storm Sewer	50	79	210	88	6	4
Outlet #6	206	SWMF 4&5	Underground Storage	TBD - Customized SWMF	TBD	Culvert	327	249	835	303	23	23
Outlet #7	271	SWMF6	Underground Storage	2.55m (Diameter) x 63.7m (Length)	325	Existing Storm Sewer	412	319	1092	471	38	29
Outlet #8.1	281	SWMF7	Underground Storge	1.8m (Diameter) x 83.9m (Length)	213	Trib of Patterson Creek	199	139	458	160	14	14
Outlet #8.2	282	SWMF8	Underground Storge	2.25m (Diameter) x 54.3m (Length)	216	Trib of Patterson Creek	235	206	666	253	19	17
Outlet #9	209	-	Underground Storge	TBD	TBD	Existing Storm Sewer	213	173	620	241	18	15
Outlet #10	210	-	Underground Storge	TBD	TBD	Culvert/Closed system	64	90	495	234	13	5

Note
SWMF4, SWMF5, and SWMF8 have cover issues and need to be corrected for the next submission
Conceptual design. the configuration and dimension are to be confirmed in detail design