APPENDIX B – HYDROLOGIC AND HYDRAULIC ANALYSES

CUHP OUTPUT

Comment	From CUHP 2005	
1Hr Depth	0.78	
Return Period	5 Years	
Time	Depth	CurveValue
0:05	0.016	0.02
0:10	0.029	0.037
0:15	0.068	0.087
0:20	0.119	0.153
0:25	0.195	0.25
0:30	0.101	0.13
0:35	0.045	0.058
0:40	0.034	0.044
0:45	0.028	0.036
0:50	0.028	0.036
0:55	0.023	0.03
1:00	0.023	0.03
1:05	0.023	0.03
1:10	0.023	0.03
1:15	0.02	0.025
1:20	0.017	0.022
1:25	0.017	0.022
1:30	0.017	0.022
1:35	0.017	0.022
1:40	0.012	0.015
1:45	0.012	0.015
1:50	0.012	0.015
1:55	0.012	0.015
2:00	0.01	0.013
2:05	0	

Comment	From CUHP 2005	
1Hr Depth	1.09	
Return Period	25 Years	
Time	Depth	CurveValue
0:05	0.014	0.013
0:10	0.038	0.035
0:15	0.055	0.05
0:20	0.087	0.08
0:25	0.164	0.15
0:30	0.273	0.25
0:35	0.131	0.12
0:40	0.087	0.08
0:45	0.055	0.05
0:50	0.055	0.05
0:55	0.035	0.032
1:00	0.035	0.032
1:05	0.035	0.032
1:10	0.026	0.024
1:15	0.026	0.024
1:20	0.02	0.018
1:25	0.02	0.018
1:30	0.015	0.014
1:35	0.015	0.014
1:40	0.015	0.014
1:45	0.015	0.014
1:50	0.015	0.014
1:55	0.015	0.014
2:00	0.015	0.014
2:05	0	

Comment	From CUHP 2005	
1Hr Depth	1.46	
Return Period	100 Years	
Time	Depth	CurveValue
0:05	0.015	0.01
0:10	0.044	0.03
0:15	0.067	0.046
0:20	0.117	0.08
0:25	0.204	0.14
0:30	0.365	0.25
0:35	0.204	0.14
0:40	0.117	0.08
0:45	0.091	0.062
0:50	0.073	0.05
0:55	0.058	0.04
1:00	0.058	0.04
1:05	0.058	0.04
1:10	0.029	0.02
1:15	0.029	0.02
1:20	0.018	0.012
1:25	0.018	0.012
1:30	0.018	0.012
1:35	0.018	0.012
1:40	0.018	0.012
1:45	0.018	0.012
1:50	0.018	0.012
1:55	0.018	0.012
2:00	0.018	0.012
2:05	0	

PCSWMM INPUT

```
[TITLE]
Burgess Creek Basin - Future Conditions
UDFCD gauge 100 year 2 hr
Link C6 Diverted from J1 to J-BU03 per Ben Beall


[OPTIONS]
FLOW_UNITS           CFS
INFILTRATION         HORTON
FLOW_ROUTING         KINWAVE
START_DATE           07/03/2012
START_TIME           00:00:00
REPORT_START_DATE    07/03/2012
REPORT_START_TIME    00:00:00
END_DATE             07/04/2012
END_TIME             00:00:00
SWEEP_START          01/01
SWEEP_END            12/31
DRY_DAYS             0
REPORT_STEP          0:05:00
WET_STEP             0:05:00
DRY_STEP             0:05:00
ROUTING_STEP         300
ALLOW_PONDING        NO
INERTIAL_DAMPING     PARTIAL
VARIABLE_STEP        0.75
LENGTHENING_STEP     0
MIN_SURFAREA         0
NORMAL_FLOW_LIMITED  BOTH
SKIP_STEADY_STATE    NO
FORCE_MAIN_EQUATION  H-W
LINK_OFFSETS         DEPTH
MIN_SLOPE            0

[EVAPORATION]
;;Type          Parameters
;;------------- ----------
CONSTANT     0.0
DRY_ONLY     NO

[RAINGAGES]
;;               Rain      Time   Snow   Data
;;Name           Type      Intrvl Catch  Source
;;-------------- --------- ------ ------ ----------
UDFCD100         VOLUME    0:05   1.0    TIMESERIES UDFCD100

[SUBCATCHMENTS]
;;                                                Total    Pcnt.             Pcnt.    Curb
Snow
;;Name           Raingage         Outlet           Area     Imperv   Width    Slope    Length
Pack
;;-------------- ---------------- ---------------- -------- -------- -------- -------- --------
--------
BU19             UDFCD100         J-BU19           22.3562  44.9     3869.73  11.62    0
BU29             UDFCD100         J-BU29           155.293  7.3      12606.6  22.24    0
BU31             UDFCD100         J-BU31           29.7492  37.4     3111.51  21.08    0
BU08             UDFCD100         J-BU08           10.6722  84.3     1289.46  19.54    0
BU30             UDFCD100         J-BU30           17.0792  38.5     2484.68  13.63    0
BU24             UDFCD100         J-BU24           23.0602  5        3713.44  29.6     0
BU23             UDFCD100         J-BU23           21.9672  26.6     4739.8   22.61    0
BU16             UDFCD100         J-BU16           26.7876  31.2     4560.93  27.54    0
BU14             UDFCD100         J-BU14           34.1483  48.7     5369.65  23.68    0
BU17             UDFCD100         J-BU17           18.7035  59.3     2975.3   13.28    0
BU20             UDFCD100         J-BU20           32.3005  46.1     3451.64  16.95    0
BU21             UDFCD100         J-BU21           17.0404  33.3     2927.84  14.75    0
BU25             UDFCD100         J-BU25           42.062   5.9      4753.1   34.75    0
BU26             UDFCD100         J-BU26           31.9144  19.9     5406.36  32.48    0
BU27             UDFCD100         J-BU27           241.452  2.4      8708.54  30.13    0
BU15             UDFCD100         J-BU15           36.1116  44.3     3566.41  21.87    0
BU06             UDFCD100         J-BU06           18.7807  85.9     2678.85  3.58     0
BU01             UDFCD100         J-BU01           5.85342  76.2     1381.61  4.69     0
BU04             UDFCD100         J-BU04           21.9836  79.2     2889.97  6.35     0
BU13             UDFCD100         J-BU13           21.485   41.7     3907.28  25.69    0
BU12             UDFCD100         J-BU12           28.3521  70.5     5151.32  10.4     0
BU10             UDFCD100         J-BU10           32.7599  67.6     6201.66  16.31    0
BU18             UDFCD100         J-BU18           12.2272  73.7     2418.02  16.18    0
BU22             UDFCD100         J-BU22           40.4874  29.2     4272.07  12.72    0
BU28             UDFCD100         J-BU28           23.1201  5        3197.04  25.92    0
BU03             UDFCD100         J-BU03           4.42548  85.4     1133.97  4.93     0
BU09             UDFCD100         J-BU09           42.9905  43       3473.51  12.01    0
BU07             UDFCD100         J-BU07           8.22997  79.9     2024.35  12.62    0
BU05             UDFCD100         J-BU05           6.59995  81.1     1474.34  7.59     0
BU11             UDFCD100         J-BU11           12.9335  70.8     3747.4   10.24    0
BU33             UDFCD100         J-BU33           1509.79  4        33470.2  18.94    0
BU32             UDFCD100         J-BU32           22.0827  32.5     2492.56  19.37    0
BU02             UDFCD100         J-BU02           12.5065  78       3205.26  6.96     0

[SUBAREAS]
;;Subcatchment   N-Imperv   N-Perv     S-Imperv   S-Perv     PctZero    RouteTo    PctRouted
;;-------------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
BU19             0.02       0.2        0.1        0.35       10         OUTLET
BU29             0.02       0.2        0.1        0.35       10         OUTLET
BU31             0.02       0.2        0.1        0.35       10         OUTLET
BU08             0.02       0.2        0.1        0.35       10         OUTLET
BU30             0.02       0.2        0.1        0.35       10         OUTLET
BU24             0.02       0.2        0.1        0.35       10         OUTLET
BU23             0.02       0.2        0.1        0.35       10         OUTLET
BU16             0.02       0.2        0.1        0.35       10         OUTLET
BU14             0.02       0.2        0.1        0.35       10         OUTLET
BU17             0.02       0.2        0.1        0.35       10         OUTLET
BU20             0.02       0.2        0.1        0.35       10         OUTLET
BU21             0.02       0.2        0.1        0.35       10         OUTLET
BU25             0.02       0.2        0.1        0.35       10         OUTLET
BU26             0.02       0.2        0.1        0.35       10         OUTLET
BU27             0.02       0.2        0.1        0.35       10         OUTLET
BU15             0.02       0.2        0.1        0.35       10         OUTLET
BU06             0.02       0.2        0.1        0.35       10         OUTLET
BU01             0.02       0.2        0.1        0.35       10         OUTLET
BU04             0.02       0.2        0.1        0.35       10         OUTLET
BU13             0.02       0.2        0.1        0.35       10         OUTLET
BU12             0.02       0.2        0.1        0.35       10         OUTLET
BU10             0.02       0.2        0.1        0.35       10         OUTLET
BU18             0.02       0.2        0.1        0.35       10         OUTLET
BU22             0.02       0.2        0.1        0.35       10         OUTLET
BU28             0.02       0.2        0.1        0.35       10         OUTLET
BU03             0.02       0.2        0.1        0.35       10         OUTLET
BU09             0.02       0.2        0.1        0.35       10         OUTLET
BU07             0.02       0.2        0.1        0.35       10         OUTLET
BU05             0.02       0.2        0.1        0.35       10         OUTLET
BU11             0.02       0.2        0.1        0.35       10         OUTLET
BU33             0.02       0.2        0.1        0.35       10         OUTLET
BU32             0.02       0.2        0.1        0.35       10         OUTLET
BU02             0.02       0.2        0.1        0.35       10         OUTLET

[INFILTRATION]
;;Subcatchment   MaxRate    MinRate    Decay      DryTime    MaxInfil
```

```
;;-------------- ---------- ---------- ---------- ---------- ----------
BU19           3          0.5        6.48       7          0
BU29           3          0.5        6.48       7          0
BU31           3          0.5        6.48       7          0
BU08           3          0.5        6.48       7          0
BU30           3          0.5        6.48       7          0
BU24           3          0.5        6.48       7          0
BU23           3          0.5        6.48       7          0
BU16           3          0.5        6.48       7          0
BU14           3          0.5        6.48       7          0
BU17           3          0.5        6.48       7          0
BU20           3          0.5        6.48       7          0
BU21           3          0.5        6.48       7          0
BU25           3          0.5        6.48       7          0
BU26           3          0.5        6.48       7          0
BU27           3          0.5        6.48       7          0
BU15           3          0.5        6.48       7          0
BU06           3          0.5        6.48       7          0
BU01           3          0.5        6.48       7          0
BU04           3          0.5        6.48       7          0
BU13           3          0.5        6.48       7          0
BU12           3          0.5        6.48       7          0
BU10           3          0.5        6.48       7          0
BU18           3          0.5        6.48       7          0
BU22           3          0.5        6.48       7          0
BU28           3          0.5        6.48       7          0
BU03           3          0.5        6.48       7          0
BU09           3          0.5        6.48       7          0
BU07           3          0.5        6.48       7          0
BU05           3          0.5        6.48       7          0
BU11           3          0.5        6.48       7          0
BU33           3          0.5        6.48       7          0
BU32           3          0.5        6.48       7          0
BU02           3          0.5        6.48       7          0

[JUNCTIONS]
;;             Invert     Max.       Init.      Surcharge  Ponded
;;Name        Elev.      Depth      Depth      Depth      Area
;;-------------- ---------- ---------- ---------- ---------- ----------
J-BU31         7222       0          0          0          0
J-BU32         7298       0          0          0          0
J-BU33         7350       0          0          0          0
J-BU29         7198       0          0          0          0
J-BU28         7196       0          0          0          0
J-BU22         7064       0          0          0          0
J-BU23         7068       0          0          0          0
J-BU24         7066       0          0          0          0
J-BU16         7006       0          0          0          0
J-BU25         7174       0          0          0          0
J-BU10         6858       0          0          0          0
J-BU09         6876       4          0          2.4        0
J-BU11         6850       0          0          0          0
J-BU12         6840       0          0          0          0
J-BU13         6968       0          0          0          0
J-BU26         7122       0          0          0          0
J-BU18         6965       0          0          0          0
J-BU19         7006       0          0          0          0
J-BU20         7124       0          0          0          0
J-BU30         7197       0          0          0          0
J-BU27         7440       0          0          0          0
J-BU03         6802       0          0          0          0
J-BU02         6782       0          0          0          0
J-BU04         6804       0          0          0          0
J-BU05         6838       0          0          0          0
J-BU06         6888       0          0          0          0
J-BU15         6956       0          0          0          0
J-BU14         6904       0          0          0          0
J-BU08         6950       0          0          0          0
J-BU07         6940       0          0          0          0
J-BU21         7034       0          0          0          0
J1             6815       0          0          0          0
J-31a          7143       0          0          0          0

[OUTFALLS]
;;             Invert     Outfall    Stage/Table      Tide
;;Name        Elev.      Type       Time Series      Gate
;;-------------- ---------- ---------- ---------- ----
J-BU01         6768       FREE                         NO

[DIVIDERS]
;;             Invert     Diverted         Divider
;;Name        Elev.      Link             Type       Parameters
;;-------------- ---------- ---------- ---------- ----------
J-BU17         6944       C34              CUTOFF     500        10         0          2.4
0

[CONDUITS]
;;             Inlet            Outlet                      Manning    Inlet      Outlet
Init.      Max.
;;Name        Node             Node             Length     N          Offset     Offset
Flow       Flow
;;-------------- ---------- ---------- ---------- ---------- ---------- ----------
---------- ----------
C1             J-BU02           J-BU01           748.51     0.01       0          0
0          0
C2             J-BU04           J-BU02           882.14     0.01       0          0
0          0
C3             J-BU03           J-BU02           801.04     0.01       0          0
0          0
C4             J1               J-BU04           306.05     0.01       0          0
0          0
C5             J-BU05           J1               659.59     0.01       0          0
0          0
C6             J-BU12           J-BU03           988.18     0.01       0          0
0          0
C7             J-BU10           J-BU05           455.87     0.01       0          0
0          0
C8             J-BU06           J-BU05           702.62     0.01       0          0
0          0
C9             J-BU11           J-BU12           416.88     0.01       0          0
0          0
C10            J-BU14           J-BU12           1053.48    0.01       0          0
0          0
C11            J-BU13           J-BU14           664.96     0.01       0          0
0          0
C12            J-BU26           J-BU13           1001.62    0.01       0          0
0          0
C13            J-BU09           J-BU10           645.68     0.01       0          0
0          0
C14            J-BU15           J-BU09           861.18     0.01       0          0
0          0
C15            J-BU25           J-BU15           1460.46    0.01       0          0
0          0
C16            J-BU17           J-BU09           1171.95    0.01       0          0
0          0
```

```
C17             J-BU07          J-BU09          1283.84    0.01       0          0
0          0
C18             J-BU08          J-BU09          1402.67    0.01       0          0
0          0
C19             J-BU18          J-BU17          464.45     0.01       0          0
0          0
C20             J-BU19          J-BU18          768.59     0.01       0          0
0          0
C21             J-BU16          J-BU17          1093.77    0.01       0          0
0          0
C22             J-BU23          J-BU24          9.91       0.01       0          0
0          0
C23             J-BU24          J-BU16          669.4      0.01       0          0
0          0
C24             J-BU29          J-BU28          15.04      0.01       0          0
0          0
C25             J-BU30          J-BU28          13.13      0.01       0          0
0          0
C26             J-BU28          J-BU23          1401.32    0.01       0          0
0          0
C27             J-BU27          J-BU28          1350.56    0.01       0          0
0          0
C28             J-BU21          J-BU19          592.07     0.01       0          0
0          0
C29             J-BU20          J-BU19          1222.15    0.01       0          0
0          0
C30             J-BU22          J-BU21          495.03     0.01       0          0
0          0
C32             J-BU33          J-BU32          588.14     0.01       0          0
0          0
C33             J-BU32          J-BU31          1005       0.01       0          0
0          0
C34             J-BU17          J-BU09          1217.62    0.01       10         10
0          0
C35             J-BU31          J-31a           1100.23    0.01       0          0
0          0
C36             J-31a           J-BU22          1165.88    0.01       0          0
0          0
```

[XSECTIONS]

```
;;Link           Shape        Geom1            Geom2      Geom3      Geom4      Barrels
;;-------------- ------------ ---------------- ---------- ---------- ---------- ----------
C1               IRREGULAR    channel-overflow2n 0          0          0          1
C2               IRREGULAR    channel-overflow2n 0          0          0          1
C3               IRREGULAR    channel-overflow2n 0          0          0          1
C4               IRREGULAR    channel-overflow2n 0          0          0          1
C5               IRREGULAR    channel-overflow2n 0          0          0          1
C6               IRREGULAR    channel-overflow1a 0          0          0          1
C7               IRREGULAR    channel-overflow2n 0          0          0          1
C8               IRREGULAR    channel-overflow1a 0          0          0          1
C9               IRREGULAR    channel-main1st  0          0          0          1
C10              IRREGULAR    street-main      0          0          0          1
C11              IRREGULAR    channel-overflow1a 0          0          0          1
C12              IRREGULAR    channel-overflow1a 0          0          0          1
C13              IRREGULAR    channel-overflow2n 0          0          0          1
C14              IRREGULAR    channel-main1a   0          0          0          1
C15              IRREGULAR    channel-main1a   0          0          0          1
C16              CIRCULAR     6.5              0          0          0          1
C17              IRREGULAR    channel-main1a   0          0          0          1
C18              IRREGULAR    channel-overflow1a 0          0          0          1
C19              IRREGULAR    channel-main3rd  0          0          0          1
C20              IRREGULAR    channel-main2nd  0          0          0          1
C21              IRREGULAR    channel-overflow1a 0          0          0          1
C22              IRREGULAR    channel-overflow1a 0          0          0          1
C23              IRREGULAR    channel-overflow1a 0          0          0          1
C24              IRREGULAR    channel-main1a   0          0          0          1
C25              IRREGULAR    channel-main1a   0          0          0          1
C26              IRREGULAR    channel-main1a   0          0          0          1
C27              IRREGULAR    channel-main1a   0          0          0          1
C28              IRREGULAR    street-main      0          0          0          1
C29              IRREGULAR    channel-main1a   0          0          0          1
C30              IRREGULAR    street-main      0          0          0          1
C32              IRREGULAR    channel-overflow1a 0          0          0          1
C33              IRREGULAR    channel-overflow1a 0          0          0          1
C34              IRREGULAR    street-main      0          0          0          1
C35              IRREGULAR    channel-overflow1a 0          0          0          1
C36              IRREGULAR    channel-overflow1a 0          0          0          1
```

[TRANSECTS]

```
NC 0.0625   0.0625   0.0375
X1 channel-main1st  8        4        8        0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        8
GR 0.5      8        1.5      12       5.5      28

NC 0.0625   0.0625   0.0375
X1 channel-main2nd  8        4        12       0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        12
GR 0.5      12       1.5      16       5.5      32

NC 0.0625   0.0625   0.0375
X1 channel-main3rd  8        4        16       0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        16
GR 0.5      16       1.5      20       5.5      36

NC 0.0625   0.0625   0.0375
X1 channel-overflow1s 8        20       28       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        28
GR 1        28       2        48       6        128

NC 0.0625   0.0625   0.0375
X1 channel-overflow2n 8        20       35       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        35
GR 1        35       2        55       6        135

NC 0.0625   0.0625   0.0375
X1 channel-overflow3r 8        20       60       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        60
GR 1        60       2        80       6        160

NC 0.0625   0.0625   0.01875
X1 street-main      9        6        30.5     0.0       0.0       0.0      0.0      0.0
GR 2        -40      1        0        0        3        1        6        1.25     18.5
GR 1        30.5     0        33.5     1        36.5     2        76.5

NC 0.0625   0.0625   0.01875
X1 street-overflow  13       13       53       0.0       0.0       0.0      0.0      0.0
GR 3.5      -30      3        -20      2        0        0        6        0        7
GR 2        13       2.4      33       2        53       0        59       0        60
GR 2        66       3        86       3.5      96

NC 0.0625   0.0625   0.035
X1 largeriver       12       21       41       0.0       0.0       0.0      0.0      0.0
GR 10       -45      7        -45      5        -5       4        15       2        21
GR 0        21       0        41       2        41       4        47       5        67
GR 7        107      10       107
```

```
NC 0.122    0.122    0.073
X1 channel-main1a   8        4        8        0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        8
GR 0.5      8        1.5      12       5.5      28

NC 0.122    0.122    0.073
X1 channel-overflow1a 8        20       28       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        28
GR 1        28       2        48       6        128

[LOSSES]
;;Link           Inlet      Outlet     Average    Flap Gate
;;-------------- ---------- ---------- ---------- ----------

[TIMESERIES]
;;Name           Date       Time       Value
;;-------------- ---------- ---------- ----------
;SCS_24h_Type_II_1.7in design storm, total rainfall = 1.7 in, rain units = in.
SCS_24h_Type_II_1.7in            0:00       0.00468
SCS_24h_Type_II_1.7in            0:15       0.00468
SCS_24h_Type_II_1.7in            0:30       0.00468
SCS_24h_Type_II_1.7in            0:45       0.00468
SCS_24h_Type_II_1.7in            1:00       0.00468
SCS_24h_Type_II_1.7in            1:15       0.00468
SCS_24h_Type_II_1.7in            1:30       0.00468
SCS_24h_Type_II_1.7in            1:45       0.00468
SCS_24h_Type_II_1.7in            2:00       0.00552
SCS_24h_Type_II_1.7in            2:15       0.00552
SCS_24h_Type_II_1.7in            2:30       0.00552
SCS_24h_Type_II_1.7in            2:45       0.00552
SCS_24h_Type_II_1.7in            3:00       0.00552
SCS_24h_Type_II_1.7in            3:15       0.00552
SCS_24h_Type_II_1.7in            3:30       0.00552
SCS_24h_Type_II_1.7in            3:45       0.00552
SCS_24h_Type_II_1.7in            4:00       0.0068
SCS_24h_Type_II_1.7in            4:15       0.0068
SCS_24h_Type_II_1.7in            4:30       0.0068
SCS_24h_Type_II_1.7in            4:45       0.0068
SCS_24h_Type_II_1.7in            5:00       0.0068
SCS_24h_Type_II_1.7in            5:15       0.0068
SCS_24h_Type_II_1.7in            5:30       0.0068
SCS_24h_Type_II_1.7in            5:45       0.0068
SCS_24h_Type_II_1.7in            6:00       0.00765
SCS_24h_Type_II_1.7in            6:15       0.00765
SCS_24h_Type_II_1.7in            6:30       0.00765
SCS_24h_Type_II_1.7in            6:45       0.00765
SCS_24h_Type_II_1.7in            7:00       0.00935
SCS_24h_Type_II_1.7in            7:15       0.00935
SCS_24h_Type_II_1.7in            7:30       0.00935
SCS_24h_Type_II_1.7in            7:45       0.00935
SCS_24h_Type_II_1.7in            8:00       0.0111
SCS_24h_Type_II_1.7in            8:15       0.0111
SCS_24h_Type_II_1.7in            8:30       0.0119
SCS_24h_Type_II_1.7in            8:45       0.0119
SCS_24h_Type_II_1.7in            9:00       0.0136
SCS_24h_Type_II_1.7in            9:15       0.0136
SCS_24h_Type_II_1.7in            9:30       0.0153
SCS_24h_Type_II_1.7in            9:45       0.0153
SCS_24h_Type_II_1.7in            10:00      0.0196
SCS_24h_Type_II_1.7in            10:15      0.0196
SCS_24h_Type_II_1.7in            10:30      0.0264
SCS_24h_Type_II_1.7in            10:45      0.0264
SCS_24h_Type_II_1.7in            11:00      0.0408
SCS_24h_Type_II_1.7in            11:15      0.0408
SCS_24h_Type_II_1.7in            11:30      0.126
SCS_24h_Type_II_1.7in            11:45      0.52
SCS_24h_Type_II_1.7in            12:00      0.0612
SCS_24h_Type_II_1.7in            12:15      0.0612
SCS_24h_Type_II_1.7in            12:30      0.0314
SCS_24h_Type_II_1.7in            12:45      0.0314
SCS_24h_Type_II_1.7in            13:00      0.023
SCS_24h_Type_II_1.7in            13:15      0.023
SCS_24h_Type_II_1.7in            13:30      0.0178
SCS_24h_Type_II_1.7in            13:45      0.0178
SCS_24h_Type_II_1.7in            14:00      0.0127
SCS_24h_Type_II_1.7in            14:15      0.0127
SCS_24h_Type_II_1.7in            14:30      0.0127
SCS_24h_Type_II_1.7in            14:45      0.0127
SCS_24h_Type_II_1.7in            15:00      0.0127
SCS_24h_Type_II_1.7in            15:15      0.0127
SCS_24h_Type_II_1.7in            15:30      0.0127
SCS_24h_Type_II_1.7in            15:45      0.0127
SCS_24h_Type_II_1.7in            16:00      0.00765
SCS_24h_Type_II_1.7in            16:15      0.00765
SCS_24h_Type_II_1.7in            16:30      0.00765
SCS_24h_Type_II_1.7in            16:45      0.00765
SCS_24h_Type_II_1.7in            17:00      0.00765
SCS_24h_Type_II_1.7in            17:15      0.00765
SCS_24h_Type_II_1.7in            17:30      0.00765
SCS_24h_Type_II_1.7in            17:45      0.00765
SCS_24h_Type_II_1.7in            18:00      0.00765
SCS_24h_Type_II_1.7in            18:15      0.00765
SCS_24h_Type_II_1.7in            18:30      0.00765
SCS_24h_Type_II_1.7in            18:45      0.00765
SCS_24h_Type_II_1.7in            19:00      0.00765
SCS_24h_Type_II_1.7in            19:15      0.00765
SCS_24h_Type_II_1.7in            19:30      0.00765
SCS_24h_Type_II_1.7in            19:45      0.00765
SCS_24h_Type_II_1.7in            20:00      0.0051
SCS_24h_Type_II_1.7in            20:15      0.0051
SCS_24h_Type_II_1.7in            20:30      0.0051
SCS_24h_Type_II_1.7in            20:45      0.0051
SCS_24h_Type_II_1.7in            21:00      0.0051
SCS_24h_Type_II_1.7in            21:15      0.0051
SCS_24h_Type_II_1.7in            21:30      0.0051
SCS_24h_Type_II_1.7in            21:45      0.0051
SCS_24h_Type_II_1.7in            22:00      0.0051
SCS_24h_Type_II_1.7in            22:15      0.0051
SCS_24h_Type_II_1.7in            22:30      0.0051
SCS_24h_Type_II_1.7in            22:45      0.0051
SCS_24h_Type_II_1.7in            23:00      0.0051
SCS_24h_Type_II_1.7in            23:15      0.0051
SCS_24h_Type_II_1.7in            23:30      0.0051
SCS_24h_Type_II_1.7in            23:45      0.0051
SCS_24h_Type_II_1.7in            24:00      0

;SCS_24h_Type_II_2.4in design storm, total rainfall = 2.4 in, rain units = in.
SCS_24h_Type_II_2.4in            0:00       0.0066
SCS_24h_Type_II_2.4in            0:15       0.0066
SCS_24h_Type_II_2.4in            0:30       0.0066
SCS_24h_Type_II_2.4in            0:45       0.0066
SCS_24h_Type_II_2.4in            1:00       0.0066
SCS_24h_Type_II_2.4in            1:15       0.0066
SCS_24h_Type_II_2.4in            1:30       0.0066
SCS_24h_Type_II_2.4in            1:45       0.0066
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SCS_24h_Type_II_2.4in          2:00      0.0078
SCS_24h_Type_II_2.4in          2:15      0.0078
SCS_24h_Type_II_2.4in          2:30      0.0078
SCS_24h_Type_II_2.4in          2:45      0.0078
SCS_24h_Type_II_2.4in          3:00      0.0078
SCS_24h_Type_II_2.4in          3:15      0.0078
SCS_24h_Type_II_2.4in          3:30      0.0078
SCS_24h_Type_II_2.4in          3:45      0.0078
SCS_24h_Type_II_2.4in          4:00      0.0096
SCS_24h_Type_II_2.4in          4:15      0.0096
SCS_24h_Type_II_2.4in          4:30      0.0096
SCS_24h_Type_II_2.4in          4:45      0.0096
SCS_24h_Type_II_2.4in          5:00      0.0096
SCS_24h_Type_II_2.4in          5:15      0.0096
SCS_24h_Type_II_2.4in          5:30      0.0096
SCS_24h_Type_II_2.4in          5:45      0.0096
SCS_24h_Type_II_2.4in          6:00      0.0108
SCS_24h_Type_II_2.4in          6:15      0.0108
SCS_24h_Type_II_2.4in          6:30      0.0108
SCS_24h_Type_II_2.4in          6:45      0.0108
SCS_24h_Type_II_2.4in          7:00      0.0132
SCS_24h_Type_II_2.4in          7:15      0.0132
SCS_24h_Type_II_2.4in          7:30      0.0132
SCS_24h_Type_II_2.4in          7:45      0.0132
SCS_24h_Type_II_2.4in          8:00      0.0156
SCS_24h_Type_II_2.4in          8:15      0.0156
SCS_24h_Type_II_2.4in          8:30      0.0168
SCS_24h_Type_II_2.4in          8:45      0.0168
SCS_24h_Type_II_2.4in          9:00      0.0192
SCS_24h_Type_II_2.4in          9:15      0.0192
SCS_24h_Type_II_2.4in          9:30      0.0216
SCS_24h_Type_II_2.4in          9:45      0.0216
SCS_24h_Type_II_2.4in          10:00     0.0276
SCS_24h_Type_II_2.4in          10:15     0.0276
SCS_24h_Type_II_2.4in          10:30     0.0372
SCS_24h_Type_II_2.4in          10:45     0.0372
SCS_24h_Type_II_2.4in          11:00     0.0576
SCS_24h_Type_II_2.4in          11:15     0.0576
SCS_24h_Type_II_2.4in          11:30     0.178
SCS_24h_Type_II_2.4in          11:45     0.734
SCS_24h_Type_II_2.4in          12:00     0.0864
SCS_24h_Type_II_2.4in          12:15     0.0864
SCS_24h_Type_II_2.4in          12:30     0.0444
SCS_24h_Type_II_2.4in          12:45     0.0444
SCS_24h_Type_II_2.4in          13:00     0.0324
SCS_24h_Type_II_2.4in          13:15     0.0324
SCS_24h_Type_II_2.4in          13:30     0.0252
SCS_24h_Type_II_2.4in          13:45     0.0252
SCS_24h_Type_II_2.4in          14:00     0.018
SCS_24h_Type_II_2.4in          14:15     0.018
SCS_24h_Type_II_2.4in          14:30     0.018
SCS_24h_Type_II_2.4in          14:45     0.018
SCS_24h_Type_II_2.4in          15:00     0.018
SCS_24h_Type_II_2.4in          15:15     0.018
SCS_24h_Type_II_2.4in          15:30     0.018
SCS_24h_Type_II_2.4in          15:45     0.018
SCS_24h_Type_II_2.4in          16:00     0.0108
SCS_24h_Type_II_2.4in          16:15     0.0108
SCS_24h_Type_II_2.4in          16:30     0.0108
SCS_24h_Type_II_2.4in          16:45     0.0108
SCS_24h_Type_II_2.4in          17:00     0.0108
SCS_24h_Type_II_2.4in          17:15     0.0108
SCS_24h_Type_II_2.4in          17:30     0.0108
SCS_24h_Type_II_2.4in          17:45     0.0108
SCS_24h_Type_II_2.4in          18:00     0.0108
SCS_24h_Type_II_2.4in          18:15     0.0108
SCS_24h_Type_II_2.4in          18:30     0.0108
SCS_24h_Type_II_2.4in          18:45     0.0108
SCS_24h_Type_II_2.4in          19:00     0.0108
SCS_24h_Type_II_2.4in          19:15     0.0108
SCS_24h_Type_II_2.4in          19:30     0.0108
SCS_24h_Type_II_2.4in          19:45     0.0108
SCS_24h_Type_II_2.4in          20:00     0.0072
SCS_24h_Type_II_2.4in          20:15     0.0072
SCS_24h_Type_II_2.4in          20:30     0.0072
SCS_24h_Type_II_2.4in          20:45     0.0072
SCS_24h_Type_II_2.4in          21:00     0.0072
SCS_24h_Type_II_2.4in          21:15     0.0072
SCS_24h_Type_II_2.4in          21:30     0.0072
SCS_24h_Type_II_2.4in          21:45     0.0072
SCS_24h_Type_II_2.4in          22:00     0.0072
SCS_24h_Type_II_2.4in          22:15     0.0072
SCS_24h_Type_II_2.4in          22:30     0.0072
SCS_24h_Type_II_2.4in          22:45     0.0072
SCS_24h_Type_II_2.4in          23:00     0.0072
SCS_24h_Type_II_2.4in          23:15     0.0072
SCS_24h_Type_II_2.4in          23:30     0.0072
SCS_24h_Type_II_2.4in          23:45     0.0072
SCS_24h_Type_II_2.4in          24:00     0

;SCS_24h_Type_II_2.8in design storm, total rainfall = 2.8 in, rain units = in.
SCS_24h_Type_II_2.8in          0:00      0.0077
SCS_24h_Type_II_2.8in          0:15      0.0077
SCS_24h_Type_II_2.8in          0:30      0.0077
SCS_24h_Type_II_2.8in          0:45      0.0077
SCS_24h_Type_II_2.8in          1:00      0.0077
SCS_24h_Type_II_2.8in          1:15      0.0077
SCS_24h_Type_II_2.8in          1:30      0.0077
SCS_24h_Type_II_2.8in          1:45      0.0077
SCS_24h_Type_II_2.8in          2:00      0.0091
SCS_24h_Type_II_2.8in          2:15      0.0091
SCS_24h_Type_II_2.8in          2:30      0.0091
SCS_24h_Type_II_2.8in          2:45      0.0091
SCS_24h_Type_II_2.8in          3:00      0.0091
SCS_24h_Type_II_2.8in          3:15      0.0091
SCS_24h_Type_II_2.8in          3:30      0.0091
SCS_24h_Type_II_2.8in          3:45      0.0091
SCS_24h_Type_II_2.8in          4:00      0.0112
SCS_24h_Type_II_2.8in          4:15      0.0112
SCS_24h_Type_II_2.8in          4:30      0.0112
SCS_24h_Type_II_2.8in          4:45      0.0112
SCS_24h_Type_II_2.8in          5:00      0.0112
SCS_24h_Type_II_2.8in          5:15      0.0112
SCS_24h_Type_II_2.8in          5:30      0.0112
SCS_24h_Type_II_2.8in          5:45      0.0112
SCS_24h_Type_II_2.8in          6:00      0.0126
SCS_24h_Type_II_2.8in          6:15      0.0126
SCS_24h_Type_II_2.8in          6:30      0.0126
SCS_24h_Type_II_2.8in          6:45      0.0126
SCS_24h_Type_II_2.8in          7:00      0.0154
SCS_24h_Type_II_2.8in          7:15      0.0154
SCS_24h_Type_II_2.8in          7:30      0.0154
SCS_24h_Type_II_2.8in          7:45      0.0154
SCS_24h_Type_II_2.8in          8:00      0.0182
SCS_24h_Type_II_2.8in          8:15      0.0182
SCS_24h_Type_II_2.8in          8:30      0.0196
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SCS_24h_Type_II_2.8in          8:45      0.0196
SCS_24h_Type_II_2.8in          9:00      0.0224
SCS_24h_Type_II_2.8in          9:15      0.0224
SCS_24h_Type_II_2.8in          9:30      0.0252
SCS_24h_Type_II_2.8in          9:45      0.0252
SCS_24h_Type_II_2.8in          10:00     0.0322
SCS_24h_Type_II_2.8in          10:15     0.0322
SCS_24h_Type_II_2.8in          10:30     0.0434
SCS_24h_Type_II_2.8in          10:45     0.0434
SCS_24h_Type_II_2.8in          11:00     0.0672
SCS_24h_Type_II_2.8in          11:15     0.0672
SCS_24h_Type_II_2.8in          11:30     0.207
SCS_24h_Type_II_2.8in          11:45     0.857
SCS_24h_Type_II_2.8in          12:00     0.101
SCS_24h_Type_II_2.8in          12:15     0.101
SCS_24h_Type_II_2.8in          12:30     0.0518
SCS_24h_Type_II_2.8in          12:45     0.0518
SCS_24h_Type_II_2.8in          13:00     0.0378
SCS_24h_Type_II_2.8in          13:15     0.0378
SCS_24h_Type_II_2.8in          13:30     0.0294
SCS_24h_Type_II_2.8in          13:45     0.0294
SCS_24h_Type_II_2.8in          14:00     0.021
SCS_24h_Type_II_2.8in          14:15     0.021
SCS_24h_Type_II_2.8in          14:30     0.021
SCS_24h_Type_II_2.8in          14:45     0.021
SCS_24h_Type_II_2.8in          15:00     0.021
SCS_24h_Type_II_2.8in          15:15     0.021
SCS_24h_Type_II_2.8in          15:30     0.021
SCS_24h_Type_II_2.8in          15:45     0.021
SCS_24h_Type_II_2.8in          16:00     0.0126
SCS_24h_Type_II_2.8in          16:15     0.0126
SCS_24h_Type_II_2.8in          16:30     0.0126
SCS_24h_Type_II_2.8in          16:45     0.0126
SCS_24h_Type_II_2.8in          17:00     0.0126
SCS_24h_Type_II_2.8in          17:15     0.0126
SCS_24h_Type_II_2.8in          17:30     0.0126
SCS_24h_Type_II_2.8in          17:45     0.0126
SCS_24h_Type_II_2.8in          18:00     0.0126
SCS_24h_Type_II_2.8in          18:15     0.0126
SCS_24h_Type_II_2.8in          18:30     0.0126
SCS_24h_Type_II_2.8in          18:45     0.0126
SCS_24h_Type_II_2.8in          19:00     0.0126
SCS_24h_Type_II_2.8in          19:15     0.0126
SCS_24h_Type_II_2.8in          19:30     0.0126
SCS_24h_Type_II_2.8in          19:45     0.0126
SCS_24h_Type_II_2.8in          20:00     0.0084
SCS_24h_Type_II_2.8in          20:15     0.0084
SCS_24h_Type_II_2.8in          20:30     0.0084
SCS_24h_Type_II_2.8in          20:45     0.0084
SCS_24h_Type_II_2.8in          21:00     0.0084
SCS_24h_Type_II_2.8in          21:15     0.0084
SCS_24h_Type_II_2.8in          21:30     0.0084
SCS_24h_Type_II_2.8in          21:45     0.0084
SCS_24h_Type_II_2.8in          22:00     0.0084
SCS_24h_Type_II_2.8in          22:15     0.0084
SCS_24h_Type_II_2.8in          22:30     0.0084
SCS_24h_Type_II_2.8in          22:45     0.0084
SCS_24h_Type_II_2.8in          23:00     0.0084
SCS_24h_Type_II_2.8in          23:15     0.0084
SCS_24h_Type_II_2.8in          23:30     0.0084
SCS_24h_Type_II_2.8in          23:45     0.0084
SCS_24h_Type_II_2.8in          24:00     0
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```
UDFCD100                       0:05      0.0146
UDFCD100                       0:10      0.0438
UDFCD100                       0:15      0.06716
UDFCD100                       0:20      0.1168
UDFCD100                       0:25      0.2044
UDFCD100                       0:30      0.365
UDFCD100                       0:35      0.2044
UDFCD100                       0:40      0.1168
UDFCD100                       0:45      0.09052
UDFCD100                       0:50      0.073
UDFCD100                       0:55      0.0584
UDFCD100                       1:00      0.0584
UDFCD100                       1:05      0.0584
UDFCD100                       1:10      0.0292
UDFCD100                       1:15      0.0292
UDFCD100                       1:20      0.01752
UDFCD100                       1:25      0.01752
UDFCD100                       1:30      0.01752
UDFCD100                       1:35      0.01752
UDFCD100                       1:40      0.01752
UDFCD100                       1:45      0.01752
UDFCD100                       1:50      0.01752
UDFCD100                       1:55      0.01752
UDFCD100                       2:00      0.01752
UDFCD100                       2:05      0

[REPORT]
INPUT      YES
CONTROLS   NO
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]
Link       C34              overflow

[MAP]
DIMENSIONS       2633236.4892861  1409009.58332074 2656184.19602535 1418689.94426153
UNITS            Feet

[COORDINATES]
;;Node           X-Coord          Y-Coord
;;-------------- ---------------- ----------------
J-BU31           2640394.601      1415530.744
J-BU32           2641380.101      1415561.654
J-BU33           2641967.467      1415590.724
J-BU29           2640257.414      1414095.411
J-BU28           2640247.105      1414084.452
J-BU22           2638864.322      1414438.2
J-BU23           2639180.102      1413206.963
J-BU24           2639175.459      1413198.208
J-BU16           2638555.884      1413051.862
J-BU25           2639435.128      1411917.785
J-BU10           2636797          1411184.595
J-BU09           2637128.73       1411683.368
J-BU11           2636759.633      1410744.985
J-BU12           2636761.58       1410328.149
J-BU13           2638386.035      1410184.324
J-BU26           2639260.559      1410075.441
J-BU18           2637545.119      1413246.186
J-BU19           2638036.547      1413779.954
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BU28	2640694.918	1414061.688
BU28	2640782.479	1414069.896
BU28	2640856.359	1414083.578
BU28	2640911.086	1414080.842
BU28	2640974.021	1414026.116
BU28	2640990.438	1413974.126
BU28	2641023.274	1413941.29
BU28	2641069.791	1413883.828
BU28	2641127.254	1413859.201
BU28	2641266.805	1413829.102
BU28	2641316.059	1413820.893
BU28	2641387.202	1413809.948
BU28	2641466.555	1413804.475
BU28	2641543.172	1413804.475
BU28	2641663.569	1413799.002
BU28	2641800.384	1413823.629
BU28	2641775.758	1413738.804
BU28	2641740.186	1413695.023
BU28	2641674.514	1413659.451
BU28	2641606.107	1413651.242
BU28	2641548.644	1413626.615
BU28	2641482.973	1413591.043
BU28	2641482.973	1413560.944
BU28	2641499.695	1413499.456
BU28	2641476.257	1413294.161
BU28	2641375.997	1413140.081
BU28	2641348.135	1413116.962
BU28	2641239.767	1413048.254
BU28	2641231.233	1413038.31
BU28	2641176.507	1412975.375
BU28	2641135.462	1412912.44
BU28	2641091.682	1412865.923
BU28	2641034.219	1412819.406
BU28	2641023.274	1412696.272
BU28	2640987.702	1412614.183
BU28	2640943.921	1412562.193
BU28	2640914.943	1412511.843
BU28	2640885.734	1412579.574
BU28	2640851.981	1412875.56
BU28	2640816.855	1413015.636
BU28	2640766.015	1413258.722
BU28	2640715.998	1413303.181
BU28	2640658.571	1413355.051
BU28	2640560.39	1413447.674
BU28	2640489.996	1413545.856
BU28	2640445.537	1413618.102
BU28	2640415.897	1413719.988
BU28	2640406.635	1413771.857
BU28	2640399.225	1413821.874
BU28	2640369.585	1413875.596
BU28	2640315.863	1413957.105
BU28	2640240.378	1414091.179
BU28	2640347.407	1414105.468
BU28	2640410.342	1414119.15
BU28	2640459.595	1414130.095
BU28	2640544.421	1414132.831
BU28	2640574.52	1414105.468
BU28	2640629.246	1414075.369
BU03	2636431.33	1409945.409
BU03	2636459.456	1409938
BU03	2636624.372	1409947.263
BU03	2636649.252	1409945.37
BU03	2636745.877	1409876.495
BU03	2636708.034	1409876.292
BU03	2636467.867	1409875
BU03	2636108.246	1409874.626
BU03	2635815.96	1409865.976
BU03	2635817.556	1409926.308
BU03	2635832.132	1410023.475
BU03	2635845.717	1410051.119
BU03	2635924.982	1410172.09
BU03	2635986.886	1410222.203
BU03	2636079.252	1410245.786
BU03	2636079.382	1410245.881
BU03	2636117.428	1410247.61
BU03	2636197.151	1410178.337
BU03	2636256.317	1410141.707
BU03	2636375.142	1410133.193
BU03	2636397.278	1410034.235
BU03	2636431.33	1409945.409
BU09	2636504.315	1412495.111
BU09	2636511.563	1412684.877
BU09	2636523.823	1412687.163
BU09	2636634.5	1412715.375
BU09	2636699.604	1412775.053
BU09	2636744.092	1412844.498
BU09	2636770.134	1413011.599
BU09	2636797.26	1413033.3
BU09	2636847.626	1413045.67
BU09	2636938.772	1413065.201
BU09	2637044.023	1413072.796
BU09	2637113.468	1413064.116
BU09	2637409.083	1413120.879
BU09	2637399.669	1412860.909
BU09	2637507.644	1412785.741
BU09	2637533.474	1412784.019
BU09	2637723.931	1412800.725
BU09	2637853.179	1412823.406
BU09	2637873.688	1412813.862
BU09	2637984.309	1412762.383
BU09	2638023.895	1412740
BU09	2638139.72	1412691.865
BU09	2638777.394	1412776.587
BU09	2638847.836	1412746.107
BU09	2639046.198	1412719.034
BU09	2639241.84	1412654.609
BU09	2639202.938	1412656.462
BU09	2639136.249	1412636.085
BU09	2639073.264	1412610.15
BU09	2638991.756	1412617.56
BU09	2638895.427	1412624.97
BU09	2638850.968	1412599.035
BU09	2638736.114	1412550.871
BU09	2638567.539	1412458.247
BU09	2638437.866	1412413.788
BU09	2638313.75	1412369.328
BU09	2638180.372	1412282.262
BU09	2638106.311	1412249.675
BU09	2638087.748	1412241.508
BU09	2638015.501	1412176.671
BU09	2637976.599	1412132.212
BU09	2637909.91	1412084.047
BU09	2637822.844	1412009.948
BU09	2637724.663	1411939.554

BU09	2637606.104	1411858.045
BU09	2637476.431	1411795.061
BU09	2637407.89	1411754.307
BU09	2637368.988	1411737.634
BU09	2637126.574	1411680.378
BU09	2636979.304	1411829.395
BU09	2636861.71	1411815.415
BU09	2636754.071	1411832.082
BU09	2636669.348	1411871.665
BU09	2636582.979	1411913.021
BU09	2636576.326	1411948.36
BU09	2636511.488	1412440.592
BU09	2636504.315	1412495.111
BU07	2636511.563	1412684.877
BU07	2636513.421	1412733.541
BU07	2636484.236	1412806.504
BU07	2636435.594	1412869.739
BU07	2636348.038	1412928.109
BU07	2636330.184	1412945.512
BU07	2636332.487	1413210.343
BU07	2636346.304	1413320.882
BU07	2636422.299	1413415.3
BU07	2636462.19	1413455.191
BU07	2636615.741	1413608.742
BU07	2636641.873	1413629.121
BU07	2636690.674	1413646.933
BU07	2636744.84	1413675.405
BU07	2636883.77	1413678.736
BU07	2636823.754	1413571.928
BU07	2636821.584	1413229.046
BU07	2636847.626	1413045.67
BU07	2636797.26	1413033.3
BU07	2636770.134	1413011.599
BU07	2636744.092	1412844.498
BU07	2636699.604	1412775.053
BU07	2636634.5	1412715.375
BU07	2636523.823	1412687.163
BU07	2636511.563	1412684.877
BU05	2636742.277	1411208.18
BU05	2636749.532	1411085.137
BU05	2636745.112	1410901.809
BU05	2636611.872	1410883.59
BU05	2636477.757	1410877.08
BU05	2636429.58	1410861.455
BU05	2636385.309	1410912.236
BU05	2636320.205	1410942.184
BU05	2636140.518	1411077.601
BU05	2636102.757	1411172.653
BU05	2636034.714	1411261.633
BU05	2636055.107	1411265.149
BU05	2636099.377	1411279.038
BU05	2636172.294	1411312.892
BU05	2636244.148	1411337.253
BU05	2636323.488	1411335.517
BU05	2636481.908	1411419.068
BU05	2636580.725	1411452.816
BU05	2636714.582	1411448.2
BU05	2636742.277	1411208.18
BU11	2638438.752	1411242.661
BU11	2638197.94	1411033.184
BU11	2637821.421	1410836.353
BU11	2637443.055	1410782.686
BU11	2637393.904	1410703.974
BU11	2637297.333	1410674.677
BU11	2637148	1410617.143
BU11	2637012.435	1410685.251
BU11	2636740.214	1410698.694
BU11	2636749.532	1411085.137
BU11	2636762.661	1411088.973
BU11	2636820.745	1411102.017
BU11	2637139.234	1411143.559
BU11	2637245.396	1411180.485
BU11	2637425.412	1411092.786
BU11	2637508.496	1411074.323
BU11	2637719.254	1411081.348
BU11	2637811.83	1411198
BU11	2637928.346	1411267.565
BU11	2637935.153	1411266.869
BU11	2638030.638	1411257.103
BU11	2638059.75	1411254.125
BU11	2638294.5	1411220.25
BU11	2638438.752	1411242.661
BU33	2645688.634	1410540.889
BU33	2645864.179	1410943.003
BU33	2645914.952	1411390.733
BU33	2645914.791	1411391.473
BU33	2645767.247	1412069.252
BU33	2645605.695	1412424.667
BU33	2645606.136	1412425.854
BU33	2645725.705	1412747.771
BU33	2645818.021	1413324.743
BU33	2645817.747	1413325.189
BU33	2645268.744	1414220.203
BU33	2644696.388	1414492.534
BU33	2644197.007	1414629.046
BU33	2643394.74	1414783.327
BU33	2643337.817	1414801.596
BU33	2642905.468	1414923.959
BU33	2642628.521	1415016.274
BU33	2642434.642	1415091.452
BU33	2642402.348	1415101.816
BU33	2642168.342	1415345.149
BU33	2642167.008	1415346.78
BU33	2641967.467	1415590.724
BU33	2642082.151	1415797.253
BU33	2642161.997	1416075.637
BU33	2642205.158	1416256.91
BU33	2642215.948	1416403.655
BU33	2642226.738	1416630.247
BU33	2642789.77	1416706.264
BU33	2644488.871	1416921.541
BU33	2645492.438	1417642.289
BU33	2646512.404	1418173.973
BU33	2647727.681	1418249.928
BU33	2650295.093	1417327.303
BU33	2650830.112	1416608.001
BU33	2652612.535	1415907.644
BU33	2653849.837	1414583.003
BU33	2654306.547	1413995.285
BU33	2654792.37	1413580.424
BU33	2655141.118	1413054.211
BU33	2654901.187	1411351.602
BU33	2653838.791	1411096.75
BU33	2653076.978	1410555.631
BU33	2652948.017	1410211.733
BU33	2652266.363	1410052.067

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BU33            2650026.426     1410968.614
BU33            2649494.46      1410871.893
BU33            2648907.225     1410422.831
BU33            2647350.476     1410082.004
BU33            2647000.764     1409808.671
BU33            2646252.001     1410068.187
BU33            2645679.296     1410519.498
BU33            2645683.517     1410529.168
BU33            2645688.634     1410540.889
BU32            2642226.738     1416630.247
BU32            2642215.948     1416403.655
BU32            2642205.158     1416256.91
BU32            2642161.997     1416075.637
BU32            2642082.151     1415797.253
BU32            2641967.467     1415590.724
BU32            2642167.008     1415346.78
BU32            2642168.342     1415345.149
BU32            2641969.486     1415267.549
BU32            2641812.917     1415248.393
BU32            2641756.146     1415233.983
BU32            2641692.778     1415209.851
BU32            2641646.119     1415196.589
BU32            2641633.98      1415196.001
BU32            2641584.674     1415180.029
BU32            2641563.147     1415197.39
BU32            2641379.813     1415526.557
BU32            2641370.14      1415569.717
BU32            2641391.357     1415779.648
BU32            2641361.643     1416027.756
BU32            2641353.55      1416212.266
BU32            2641368.117     1416320.707
BU32            2641355.169     1416387.066
BU32            2641351.932     1416451.806
BU32            2641943.245     1416588.804
BU32            2641976.853     1416588.672
BU32            2642226.738     1416630.247
BU02            2635637.965     1411221.591
BU02            2635677.883     1411313.026
BU02            2635683.635     1411307.352
BU02            2635690.14      1411303.532
BU02            2635728.116     1411077.258
BU02            2635742.005     1410846.355
BU02            2635724.644     1410674.48
BU02            2635704.29      1410340.615
BU02            2635756.328     1410215.973
BU02            2635771.605     1410190.279
BU02            2635797.994     1410177.084
BU02            2635832.022     1410169.445
BU02            2635866.744     1410180.556
BU02            2635892.439     1410176.39
BU02            2635924.982     1410172.09
BU02            2635845.717     1410051.119
BU02            2635832.132     1410023.475
BU02            2635817.556     1409926.308
BU02            2635815.96      1409865.976
BU02            2635442.638     1409849.896
BU02            2635091.876     1409835.888
BU02            2635070.901     1409881.072
BU02            2635097.202     1409909.541
BU02            2635182.965     1410037.058
BU02            2635234.717     1410268.905
BU02            2635241.045     1410273.416
BU02            2635307.178     1410335.105
BU02            2635360.024     1410393.536
BU02            2635371.835     1410574.918
BU02            2635412.677     1410674.18
BU02            2635433.293     1410797.878
BU02            2635450.654     1410866.237
BU02            2635507.253     1410929.167
BU02            2635637.965     1411221.591

[SYMBOLS]
;;Gage          X-Coord         Y-Coord
;;-------------- --------------- ---------------
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[TITLE]
Butcherknife Creek Basin - Future Conditions
UDFCD gauge 100 year 2 hr


[OPTIONS]
FLOW_UNITS           CFS
INFILTRATION         HORTON
FLOW_ROUTING         KINWAVE
START_DATE           07/28/2012
START_TIME           00:00:00
REPORT_START_DATE    07/28/2012
REPORT_START_TIME    00:00:00
END_DATE             07/30/2012
END_TIME             00:00:00
SWEEP_START          01/01
SWEEP_END            12/31
DRY_DAYS             0
REPORT_STEP          0:05:00
WET_STEP             0:05:00
DRY_STEP             0:05:00
ROUTING_STEP         300
ALLOW_PONDING        NO
INERTIAL_DAMPING     PARTIAL
VARIABLE_STEP        0.75
LENGTHENING_STEP     0
MIN_SURFAREA         0
NORMAL_FLOW_LIMITED  BOTH
SKIP_STEADY_STATE    NO
FORCE_MAIN_EQUATION  H-W
LINK_OFFSETS         DEPTH
MIN_SLOPE            0

[EVAPORATION]
;;Type          Parameters
;;------------- ----------
CONSTANT     0.0
DRY_ONLY     NO

[RAINGAGES]
;;               Rain      Time   Snow   Data
;;Name           Type      Intrvl Catch  Source
;;-------------- --------- ------ ------ ----------
rg100            INTENSITY 0:15   1.0    TIMESERIES SCS_24h_Type_II_2.8in
UDFCD100         VOLUME    0:05   1.0    TIMESERIES UDFCD100

[SUBCATCHMENTS]
;;                                                Total    Pcnt.             Pcnt.    Curb
Snow
;;Name           Raingage         Outlet           Area     Imperv   Width    Slope    Length
Pack
;;-------------- ---------------- ---------------- -------- -------- -------- -------- --------
--------
BK01             UDFCD100         J-BK01           3.47     97.2     989.25   2.42608  0
BK02             UDFCD100         J-BK02           1.56     96.9     406.31   4.43011  0
BK03             UDFCD100         J-BK03           3.38     94.2     760.703  1.70895  0
BK10             UDFCD100         J-BK10           6.46     65.1     1644.69  1.13699  0
BK04             UDFCD100         J-BK04           0.66     95.9     574.945  0.887041 0
BK08             UDFCD100         J-BK08           3.27     79.3     729.408  2.41292  0
BK05             UDFCD100         J-BK05           3.19     81.4     1404.29  1.53815  0
BK16             UDFCD100         J-BK16           4.95     61.7     1735.1   1.79816  0
BK18             UDFCD100         J-BK18           5.71     52.2     1136.05  12.6755  0
BK15             UDFCD100         J-BK15           6.57     61.8     1988.1   1.71017  0
BK17             UDFCD100         J-BK17           4.13     62.9     991.14   12.4301  0
BK09             UDFCD100         J-BK09           4.38     66.9     1137.28  7.38602  0
BK12             UDFCD100         J-BK12           3.2      65.6     1220.19  9.47391  0
BK11             UDFCD100         J-BK11           4.52     62.3     1047.51  1.86156  0
BK13             UDFCD100         J-BK13           3.39     53.8     977.554  7.9791   0
BK14             UDFCD100         J-BK14           3.89     64.9     831.798  1.45468  0
BK23             UDFCD100         J-BK23           1484.79  5        33049.2  8.73849  0
BK22             UDFCD100         J-BK22           264.54   4.7      11534.3  13.5942  0
BK19             UDFCD100         J-BK19           5.02     21.2     1179.29  13.0078  0
BK21             UDFCD100         J-BK21           427.79   10.4     12339.6  6.05852  0
BK06             UDFCD100         J-BK06           1.58     73.7     733.024  2.0736   0
BK07             UDFCD100         J-BK07           0.24     94.5     225.981  2.25683  0
BK20             UDFCD100         J-BK20           3.73     25.8     1451.79  11.3791  0

[SUBAREAS]
;;Subcatchment   N-Imperv   N-Perv     S-Imperv   S-Perv     PctZero    RouteTo    PctRouted
;;-------------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
BK01             0.02       0.2        0.1        0.35       10         OUTLET
BK02             0.02       0.2        0.1        0.35       10         OUTLET
BK03             0.02       0.2        0.1        0.35       10         OUTLET
BK10             0.02       0.2        0.1        0.35       10         OUTLET
BK04             0.02       0.2        0.1        0.35       10         OUTLET
BK08             0.02       0.2        0.1        0.35       10         OUTLET
BK05             0.02       0.2        0.1        0.35       10         OUTLET
BK16             0.02       0.2        0.1        0.35       10         OUTLET
BK18             0.02       0.2        0.1        0.35       10         OUTLET
BK15             0.02       0.2        0.1        0.35       10         OUTLET
BK17             0.02       0.2        0.1        0.35       10         OUTLET
BK09             0.02       0.2        0.1        0.35       10         OUTLET
BK12             0.02       0.2        0.1        0.35       10         OUTLET
BK11             0.02       0.2        0.1        0.35       10         OUTLET
BK13             0.02       0.2        0.1        0.35       10         OUTLET
BK14             0.02       0.2        0.1        0.35       10         OUTLET
BK23             0.02       0.2        0.1        0.35       10         OUTLET
BK22             0.02       0.2        0.1        0.35       10         OUTLET
BK19             0.02       0.2        0.1        0.35       10         OUTLET
BK21             0.02       0.2        0.1        0.35       10         OUTLET
BK06             0.02       0.2        0.1        0.35       10         OUTLET
BK07             0.02       0.2        0.1        0.35       10         OUTLET
BK20             0.02       0.2        0.1        0.35       10         OUTLET

[INFILTRATION]
;;Subcatchment   MaxRate    MinRate    Decay      DryTime    MaxInfil
;;-------------- ---------- ---------- ---------- ---------- ----------
BK01             3          0.5        4          7          0
BK02             3          0.5        4          7          0
BK03             3          0.5        4          7          0
BK10             3          0.5        4          7          0
BK04             3          0.5        4          7          0
BK08             3          0.5        4          7          0
BK05             3          0.5        4          7          0
BK16             3          0.5        4          7          0
BK18             3          0.5        4          7          0
BK15             3          0.5        4          7          0
BK17             3          0.5        4          7          0
BK09             3          0.5        4          7          0
BK12             3          0.5        4          7          0
BK11             3          0.5        4          7          0
BK13             3          0.5        4          7          0
BK14             3          0.5        4          7          0
BK23             3          0.5        4          7          0
BK22             3          0.5        4          7          0
BK19             3          0.5        4          7          0
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BK21            3          0.5        4          7          0
BK06            3          0.5        4          7          0
BK07            3          0.5        4          7          0
BK20            3          0.5        4          7          0

[JUNCTIONS]
;;              Invert     Max.       Init.      Surcharge  Ponded
;;Name          Elev.      Depth      Depth      Depth      Area
;;-------------- ---------- ---------- ---------- ---------- ----------
J-BK23          6880       0          0          0          0
J-BK22          6880       0          0          0          0
J-BK21          6786       0          0          0          0
J-BK19          6772       0          0          0          0
J-BK18          6762       0          0          0          0
J-BK17          6763       0          0          0          0
J-BK13          6753       0          0          0          0
J-BK16          6752       0          0          0          0
J-BK15          6750       0          0          0          0
J-BK12          6742       0          0          0          0
J-BK11          6743       0          0          0          0
J-BK10          6734       0          0          0          0
J-BK09          6736       0          0          0          0
J-BK08          6735       0          0          0          0
J-BK05          6728       0          0          0          0
J-BK06          6728       0          0          0          0
J-BK04          6723       0          0          0          0
J-BK02          6708       0          0          0          0
J-BK14          6752       0          0          0          0
J-BK20          6773       0          0          0          0
J-BK07          6734       0          0          0          0
J1              6830       0          0          0          0
J2              6808       0          0          0          0
J-BK01          6706       0          0          0          0

[OUTFALLS]
;;              Invert     Outfall    Stage/Table      Tide
;;Name          Elev.      Type       Time Series      Gate
;;-------------- ---------- ---------- ---------------- ----
OF1             6706       FREE                         NO

[DIVIDERS]
;;              Invert     Diverted         Divider
;;Name          Elev.      Link             Type       Parameters
;;-------------- ---------- ---------------- ---------- ----------
J-BK03          6724       C21              CUTOFF     249.5      0          0          0
0

[CONDUITS]
;;              Inlet            Outlet                      Manning    Inlet      Outlet
Init.      Max.
;;Name          Node             Node             Length     N          Offset     Offset
Flow       Flow
;;-------------- ---------------- ---------------- ---------- ---------- ---------- ----------
---------- ----------
C1              J-BK22           J1               1594.34    0.01       0          0
0          0
C2              J-BK23           J1               1651.87    0.01       0          0
0          0
C4              J-BK21           J-BK19           797.14     0.01       0          0
0          0
C5              J-BK20           J-BK19           13.77      0.01       0          0
0          0
C6              J-BK19           J-BK18           648.8      0.01       0          0
0          0
C7              J-BK17           J-BK18           26.72      0.01       0          0
0          0
C8              J-BK18           J-BK14           667.63     0.01       0          0
0          0
C9              J-BK13           J-BK14           10.37      0.01       0          0
0          0
C10             J-BK14           J-BK12           481.48     0.01       0          0
0          0
C11             J-BK11           J-BK12           20.92      0.01       0          0
0          0
C12             J-BK12           J-BK09           435.21     0.01       0          0
0          0
C13             J-BK10           J-BK05           367.89     0.01       0          0
0          0
C14             J-BK09           J-BK06           503.24     0.01       0          0
0          0
C15             J-BK07           J-BK06           166.36     0.01       0          0
0          0
C16             J-BK08           J-BK07           56.11      0.01       0          0
0          0
C17             J-BK05           J-BK03           273.4      0.01       0          0
0          0
C18             J-BK04           J-BK02           397.65     0.01       0          0
0          0
C19             J-BK06           J-BK03           258.86     0.01       0          0
0          0
C20             J-BK03           J-BK01           647.19     0.031      0          0
0          0
C21             J-BK03           J-BK01           620.12     0.01       0          0
0          0
C22             J-BK02           OF1              265.64     0.01       0          0
0          0
C23             J-BK16           J-BK15           308.1      0.01       0          0
0          0
C24             J-BK15           J-BK11           608.83     0.01       0          0
0          0
C25             J1               J2               1593.61    0.01       0          0
0          0
C26             J2               J-BK21           1738.24    0.01       0          0
0          0
C3              J-BK01           OF1              14.14      0.01       0          0
0          0

[XSECTIONS]
;;Link          Shape        Geom1            Geom2      Geom3      Geom4      Barrels
;;-------------- ------------ ---------------- ---------- ---------- ---------- ----------
C1              IRREGULAR    channel-main1a   0          0          0          1
C2              IRREGULAR    channel-main1a   0          0          0          1
C4              IRREGULAR    channel-overflow1a 0          0          0          1
C5              DUMMY        0                0          0          0          1
C6              IRREGULAR    channel-main1st  0          0          0          1
C7              DUMMY        0                0          0          0          1
C8              IRREGULAR    channel-main1st  0          0          0          1
C9              DUMMY        0                0          0          0          1
C10             IRREGULAR    channel-main1st  0          0          0          1
C11             DUMMY        0                0          0          0          1
C12             IRREGULAR    channel-main1st  0          0          0          1
C13             IRREGULAR    street-main      0          0          0          1
C14             IRREGULAR    channel-main1st  0          0          0          1
C15             IRREGULAR    street-main      0          0          0          1
C16             IRREGULAR    street-main      0          0          0          1
```

```
C17              IRREGULAR    street-main      0          0          0          1
C18              IRREGULAR    street-main      0          0          0          1
C19              IRREGULAR    channel-main1st  0          0          0          1
C20              CIRCULAR     6                0          0          0          1
C21              IRREGULAR    street-overflow  0          0          0          1
C22              IRREGULAR    street-main      0          0          0          1
C23              IRREGULAR    street-main      0          0          0          1
C24              IRREGULAR    street-main      0          0          0          1
C25              IRREGULAR    channel-main1st  0          0          0          1
C26              IRREGULAR    channel-main1st  0          0          0          1
C3               DUMMY        0                0          0          0          1
```

[TRANSECTS]

```
NC 0.0625   0.0625   0.0375
X1 channel-main1st  8        4        8        0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        8
GR 0.5      8        1.5      12       5.5      28

NC 0.0625   0.0625   0.0375
X1 channel-main2nd  8        4        12       0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        12
GR 0.5      12       1.5      16       5.5      32

NC 0.0625   0.0625   0.0375
X1 channel-main3rd  8        4        16       0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        16
GR 0.5      16       1.5      20       5.5      36

NC 0.0625   0.0625   0.0375
X1 channel-overflow1s 8        20       28       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        28
GR 1        28       2        48       6        128

NC 0.0625   0.0625   0.0375
X1 channel-overflow2n 8        20       35       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        35
GR 1        35       2        55       6        135

NC 0.0625   0.0625   0.0375
X1 channel-overflow3r 8        20       50       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        60
GR 1        60       2        80       6        160

NC 0.0625   0.0625   0.01875
X1 street-main      9        6        30.5     0.0       0.0       0.0      0.0      0.0
GR 7        -18      1        0        0        3        1        6        1.25     18.5
GR 1        30.5     0        33.5     1        36.5     7        54.5

NC 0.0625   0.0625   0.01875
X1 street-overflow  11       13       53       0.0       0.0       0.0      0.0      0.0
GR 3        -20      2        0        0        6        0        7        2        13
GR 2.4      33       2        53       0        59       0        60       2        66
GR 3        86

NC 0.0625   0.0625   0.035
X1 largeriver       12       21       41       0.0       0.0       0.0      0.0      0.0
GR 10       -45      7        -45      5        -5       4        15       2        21
GR 0        21       0        41       2        41       4        47       5        67
GR 7        107      10       107

NC 0.122    0.122    0.073
X1 channel-main1a   8        4        8        0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        8
GR 0.5      8        1.5      12       5.5      28

NC 0.122    0.122    0.073
X1 channel-overflow1a 8        20       28       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        28
GR 1        28       2        48       6        128

NC 0.122    0.122    0.073
X1 Channel-overflow2a 8        20       35       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        35
GR 1        35       2        55       6        135
```

[LOSSES]

```
;;Link           Inlet      Outlet     Average    Flap Gate
;;-------------- ---------- ---------- ---------- ----------
```

[TIMESERIES]

```
;;Name           Date       Time       Value
;;-------------- ---------- ---------- ----------
;SCS_24h_Type_II_2.8in design storm, total rainfall = 2.8 in, rain units = in/hr.
SCS_24h_Type_II_2.8in            0:00       0
SCS_24h_Type_II_2.8in            0:15       0.03696
SCS_24h_Type_II_2.8in            0:30       0.03696
SCS_24h_Type_II_2.8in            0:45       0.03808
SCS_24h_Type_II_2.8in            1:00       0.03696
SCS_24h_Type_II_2.8in            1:15       0.03696
SCS_24h_Type_II_2.8in            1:30       0.03808
SCS_24h_Type_II_2.8in            1:45       0.03696
SCS_24h_Type_II_2.8in            2:00       0.03696
SCS_24h_Type_II_2.8in            2:15       0.03808
SCS_24h_Type_II_2.8in            2:30       0.03696
SCS_24h_Type_II_2.8in            2:45       0.03696
SCS_24h_Type_II_2.8in            3:00       0.03808
SCS_24h_Type_II_2.8in            3:15       0.03696
SCS_24h_Type_II_2.8in            3:30       0.03696
SCS_24h_Type_II_2.8in            3:45       0.03808
SCS_24h_Type_II_2.8in            4:00       0.03696
SCS_24h_Type_II_2.8in            4:15       0.03696
SCS_24h_Type_II_2.8in            4:30       0.03808
SCS_24h_Type_II_2.8in            4:45       0.03696
SCS_24h_Type_II_2.8in            5:00       0.03696
SCS_24h_Type_II_2.8in            5:15       0.03808
SCS_24h_Type_II_2.8in            5:30       0.03696
SCS_24h_Type_II_2.8in            5:45       0.03696
SCS_24h_Type_II_2.8in            6:00       0.03808
SCS_24h_Type_II_2.8in            6:15       0.03696
SCS_24h_Type_II_2.8in            6:30       0.03696
SCS_24h_Type_II_2.8in            6:45       0.03808
SCS_24h_Type_II_2.8in            7:00       0.03696
SCS_24h_Type_II_2.8in            7:15       0.03696
SCS_24h_Type_II_2.8in            7:30       0.03808
SCS_24h_Type_II_2.8in            7:45       0.07392
SCS_24h_Type_II_2.8in            8:00       0.07504
SCS_24h_Type_II_2.8in            8:15       0.07504
SCS_24h_Type_II_2.8in            8:30       0.07392
SCS_24h_Type_II_2.8in            8:45       0.07504
SCS_24h_Type_II_2.8in            9:00       0.07504
SCS_24h_Type_II_2.8in            9:15       0.112
SCS_24h_Type_II_2.8in            9:30       0.112
SCS_24h_Type_II_2.8in            9:45       0.112
SCS_24h_Type_II_2.8in            10:00      0.112
SCS_24h_Type_II_2.8in            10:15      0.112
```

```
SCS_24h_Type_II_2.8in           10:30      0.112
SCS_24h_Type_II_2.8in           10:45      0.224
SCS_24h_Type_II_2.8in           11:00      0.224
SCS_24h_Type_II_2.8in           11:15      0.336
SCS_24h_Type_II_2.8in           11:30      0.56
SCS_24h_Type_II_2.8in           11:45      0.672
SCS_24h_Type_II_2.8in           12:00      1.344
SCS_24h_Type_II_2.8in           12:15      1.344
SCS_24h_Type_II_2.8in           12:30      0.672
SCS_24h_Type_II_2.8in           12:45      0.56
SCS_24h_Type_II_2.8in           13:00      0.336
SCS_24h_Type_II_2.8in           13:15      0.224
SCS_24h_Type_II_2.8in           13:30      0.224
SCS_24h_Type_II_2.8in           13:45      0.112
SCS_24h_Type_II_2.8in           14:00      0.112
SCS_24h_Type_II_2.8in           14:15      0.112
SCS_24h_Type_II_2.8in           14:30      0.112
SCS_24h_Type_II_2.8in           14:45      0.112
SCS_24h_Type_II_2.8in           15:00      0.112
SCS_24h_Type_II_2.8in           15:15      0.07392
SCS_24h_Type_II_2.8in           15:30      0.07504
SCS_24h_Type_II_2.8in           15:45      0.07504
SCS_24h_Type_II_2.8in           16:00      0.07392
SCS_24h_Type_II_2.8in           16:15      0.07504
SCS_24h_Type_II_2.8in           16:30      0.07504
SCS_24h_Type_II_2.8in           16:45      0.03696
SCS_24h_Type_II_2.8in           17:00      0.03696
SCS_24h_Type_II_2.8in           17:15      0.03808
SCS_24h_Type_II_2.8in           17:30      0.03696
SCS_24h_Type_II_2.8in           17:45      0.03696
SCS_24h_Type_II_2.8in           18:00      0.03808
SCS_24h_Type_II_2.8in           18:15      0.03696
SCS_24h_Type_II_2.8in           18:30      0.03696
SCS_24h_Type_II_2.8in           18:45      0.03808
SCS_24h_Type_II_2.8in           19:00      0.03696
SCS_24h_Type_II_2.8in           19:15      0.03696
SCS_24h_Type_II_2.8in           19:30      0.03808
SCS_24h_Type_II_2.8in           19:45      0.03696
SCS_24h_Type_II_2.8in           20:00      0.03696
SCS_24h_Type_II_2.8in           20:15      0.03808
SCS_24h_Type_II_2.8in           20:30      0.03696
SCS_24h_Type_II_2.8in           20:45      0.03696
SCS_24h_Type_II_2.8in           21:00      0.03808
SCS_24h_Type_II_2.8in           21:15      0.03696
SCS_24h_Type_II_2.8in           21:30      0.03696
SCS_24h_Type_II_2.8in           21:45      0.03808
SCS_24h_Type_II_2.8in           22:00      0.03696
SCS_24h_Type_II_2.8in           22:15      0.03696
SCS_24h_Type_II_2.8in           22:30      0.03808
SCS_24h_Type_II_2.8in           22:45      0.03696
SCS_24h_Type_II_2.8in           23:00      0.03696
SCS_24h_Type_II_2.8in           23:15      0.03808
SCS_24h_Type_II_2.8in           23:30      0.03696
SCS_24h_Type_II_2.8in           23:45      0.03696
SCS_24h_Type_II_2.8in           24:00      0.03808

UDFCD100                    0:05       0.0146
UDFCD100                    0:10       0.0438
UDFCD100                    0:15       0.06716
UDFCD100                    0:20       0.1168
UDFCD100                    0:25       0.2044
UDFCD100                    0:30       0.365
UDFCD100                    0:35       0.2044
UDFCD100                    0:40       0.1168
UDFCD100                    0:45       0.09052
UDFCD100                    0:50       0.073
UDFCD100                    0:55       0.0584
UDFCD100                    1:00       0.0584
UDFCD100                    1:05       0.0584
UDFCD100                    1:10       0.0292
UDFCD100                    1:15       0.0292
UDFCD100                    1:20       0.01752
UDFCD100                    1:25       0.01752
UDFCD100                    1:30       0.01752
UDFCD100                    1:35       0.01752
UDFCD100                    1:40       0.01752
UDFCD100                    1:45       0.01752
UDFCD100                    1:50       0.01752
UDFCD100                    1:55       0.01752
UDFCD100                    2:00       0.01752
UDFCD100                    2:05       0

;SCS_24h_Type_II_1.7in design storm, total rainfall = 1.7 in, rain units = in.
SCS_24h_Type_II_1.7in           0:00       0.00468
SCS_24h_Type_II_1.7in           0:15       0.00468
SCS_24h_Type_II_1.7in           0:30       0.00468
SCS_24h_Type_II_1.7in           0:45       0.00468
SCS_24h_Type_II_1.7in           1:00       0.00468
SCS_24h_Type_II_1.7in           1:15       0.00468
SCS_24h_Type_II_1.7in           1:30       0.00468
SCS_24h_Type_II_1.7in           1:45       0.00468
SCS_24h_Type_II_1.7in           2:00       0.00552
SCS_24h_Type_II_1.7in           2:15       0.00552
SCS_24h_Type_II_1.7in           2:30       0.00552
SCS_24h_Type_II_1.7in           2:45       0.00552
SCS_24h_Type_II_1.7in           3:00       0.00552
SCS_24h_Type_II_1.7in           3:15       0.00552
SCS_24h_Type_II_1.7in           3:30       0.00552
SCS_24h_Type_II_1.7in           3:45       0.00552
SCS_24h_Type_II_1.7in           4:00       0.0068
SCS_24h_Type_II_1.7in           4:15       0.0068
SCS_24h_Type_II_1.7in           4:30       0.0068
SCS_24h_Type_II_1.7in           4:45       0.0068
SCS_24h_Type_II_1.7in           5:00       0.0068
SCS_24h_Type_II_1.7in           5:15       0.0068
SCS_24h_Type_II_1.7in           5:30       0.0068
SCS_24h_Type_II_1.7in           5:45       0.0068
SCS_24h_Type_II_1.7in           6:00       0.00765
SCS_24h_Type_II_1.7in           6:15       0.00765
SCS_24h_Type_II_1.7in           6:30       0.00765
SCS_24h_Type_II_1.7in           6:45       0.00765
SCS_24h_Type_II_1.7in           7:00       0.00935
SCS_24h_Type_II_1.7in           7:15       0.00935
SCS_24h_Type_II_1.7in           7:30       0.00935
SCS_24h_Type_II_1.7in           7:45       0.00935
SCS_24h_Type_II_1.7in           8:00       0.0111
SCS_24h_Type_II_1.7in           8:15       0.0111
SCS_24h_Type_II_1.7in           8:30       0.0119
SCS_24h_Type_II_1.7in           8:45       0.0119
SCS_24h_Type_II_1.7in           9:00       0.0136
SCS_24h_Type_II_1.7in           9:15       0.0136
SCS_24h_Type_II_1.7in           9:30       0.0153
SCS_24h_Type_II_1.7in           9:45       0.0153
SCS_24h_Type_II_1.7in           10:00      0.0196
SCS_24h_Type_II_1.7in           10:15      0.0196
SCS_24h_Type_II_1.7in           10:30      0.0264
```

```
SCS_24h_Type_II_1.7in          10:45      0.0264
SCS_24h_Type_II_1.7in          11:00      0.0408
SCS_24h_Type_II_1.7in          11:15      0.0408
SCS_24h_Type_II_1.7in          11:30      0.126
SCS_24h_Type_II_1.7in          11:45      0.52
SCS_24h_Type_II_1.7in          12:00      0.0612
SCS_24h_Type_II_1.7in          12:15      0.0612
SCS_24h_Type_II_1.7in          12:30      0.0314
SCS_24h_Type_II_1.7in          12:45      0.0314
SCS_24h_Type_II_1.7in          13:00      0.023
SCS_24h_Type_II_1.7in          13:15      0.023
SCS_24h_Type_II_1.7in          13:30      0.0178
SCS_24h_Type_II_1.7in          13:45      0.0178
SCS_24h_Type_II_1.7in          14:00      0.0127
SCS_24h_Type_II_1.7in          14:15      0.0127
SCS_24h_Type_II_1.7in          14:30      0.0127
SCS_24h_Type_II_1.7in          14:45      0.0127
SCS_24h_Type_II_1.7in          15:00      0.0127
SCS_24h_Type_II_1.7in          15:15      0.0127
SCS_24h_Type_II_1.7in          15:30      0.0127
SCS_24h_Type_II_1.7in          15:45      0.0127
SCS_24h_Type_II_1.7in          16:00      0.00765
SCS_24h_Type_II_1.7in          16:15      0.00765
SCS_24h_Type_II_1.7in          16:30      0.00765
SCS_24h_Type_II_1.7in          16:45      0.00765
SCS_24h_Type_II_1.7in          17:00      0.00765
SCS_24h_Type_II_1.7in          17:15      0.00765
SCS_24h_Type_II_1.7in          17:30      0.00765
SCS_24h_Type_II_1.7in          17:45      0.00765
SCS_24h_Type_II_1.7in          18:00      0.00765
SCS_24h_Type_II_1.7in          18:15      0.00765
SCS_24h_Type_II_1.7in          18:30      0.00765
SCS_24h_Type_II_1.7in          18:45      0.00765
SCS_24h_Type_II_1.7in          19:00      0.00765
SCS_24h_Type_II_1.7in          19:15      0.00765
SCS_24h_Type_II_1.7in          19:30      0.00765
SCS_24h_Type_II_1.7in          19:45      0.00765
SCS_24h_Type_II_1.7in          20:00      0.0051
SCS_24h_Type_II_1.7in          20:15      0.0051
SCS_24h_Type_II_1.7in          20:30      0.0051
SCS_24h_Type_II_1.7in          20:45      0.0051
SCS_24h_Type_II_1.7in          21:00      0.0051
SCS_24h_Type_II_1.7in          21:15      0.0051
SCS_24h_Type_II_1.7in          21:30      0.0051
SCS_24h_Type_II_1.7in          21:45      0.0051
SCS_24h_Type_II_1.7in          22:00      0.0051
SCS_24h_Type_II_1.7in          22:15      0.0051
SCS_24h_Type_II_1.7in          22:30      0.0051
SCS_24h_Type_II_1.7in          22:45      0.0051
SCS_24h_Type_II_1.7in          23:00      0.0051
SCS_24h_Type_II_1.7in          23:15      0.0051
SCS_24h_Type_II_1.7in          23:30      0.0051
SCS_24h_Type_II_1.7in          23:45      0.0051
SCS_24h_Type_II_1.7in          24:00      0

;SCS_24h_Type_II_2.4in design storm, total rainfall = 2.4 in, rain units = in.
SCS_24h_Type_II_2.4in          0:00       0.0066
SCS_24h_Type_II_2.4in          0:15       0.0066
SCS_24h_Type_II_2.4in          0:30       0.0066
SCS_24h_Type_II_2.4in          0:45       0.0066
SCS_24h_Type_II_2.4in          1:00       0.0066
SCS_24h_Type_II_2.4in          1:15       0.0066
SCS_24h_Type_II_2.4in          1:30       0.0066
SCS_24h_Type_II_2.4in          1:45       0.0066
SCS_24h_Type_II_2.4in          2:00       0.0078
SCS_24h_Type_II_2.4in          2:15       0.0078
SCS_24h_Type_II_2.4in          2:30       0.0078
SCS_24h_Type_II_2.4in          2:45       0.0078
SCS_24h_Type_II_2.4in          3:00       0.0078
SCS_24h_Type_II_2.4in          3:15       0.0078
SCS_24h_Type_II_2.4in          3:30       0.0078
SCS_24h_Type_II_2.4in          3:45       0.0078
SCS_24h_Type_II_2.4in          4:00       0.0096
SCS_24h_Type_II_2.4in          4:15       0.0096
SCS_24h_Type_II_2.4in          4:30       0.0096
SCS_24h_Type_II_2.4in          4:45       0.0096
SCS_24h_Type_II_2.4in          5:00       0.0096
SCS_24h_Type_II_2.4in          5:15       0.0096
SCS_24h_Type_II_2.4in          5:30       0.0096
SCS_24h_Type_II_2.4in          5:45       0.0096
SCS_24h_Type_II_2.4in          6:00       0.0108
SCS_24h_Type_II_2.4in          6:15       0.0108
SCS_24h_Type_II_2.4in          6:30       0.0108
SCS_24h_Type_II_2.4in          6:45       0.0108
SCS_24h_Type_II_2.4in          7:00       0.0132
SCS_24h_Type_II_2.4in          7:15       0.0132
SCS_24h_Type_II_2.4in          7:30       0.0132
SCS_24h_Type_II_2.4in          7:45       0.0132
SCS_24h_Type_II_2.4in          8:00       0.0156
SCS_24h_Type_II_2.4in          8:15       0.0156
SCS_24h_Type_II_2.4in          8:30       0.0168
SCS_24h_Type_II_2.4in          8:45       0.0168
SCS_24h_Type_II_2.4in          9:00       0.0192
SCS_24h_Type_II_2.4in          9:15       0.0192
SCS_24h_Type_II_2.4in          9:30       0.0216
SCS_24h_Type_II_2.4in          9:45       0.0216
SCS_24h_Type_II_2.4in          10:00      0.0276
SCS_24h_Type_II_2.4in          10:15      0.0276
SCS_24h_Type_II_2.4in          10:30      0.0372
SCS_24h_Type_II_2.4in          10:45      0.0372
SCS_24h_Type_II_2.4in          11:00      0.0576
SCS_24h_Type_II_2.4in          11:15      0.0576
SCS_24h_Type_II_2.4in          11:30      0.178
SCS_24h_Type_II_2.4in          11:45      0.734
SCS_24h_Type_II_2.4in          12:00      0.0864
SCS_24h_Type_II_2.4in          12:15      0.0864
SCS_24h_Type_II_2.4in          12:30      0.0444
SCS_24h_Type_II_2.4in          12:45      0.0444
SCS_24h_Type_II_2.4in          13:00      0.0324
SCS_24h_Type_II_2.4in          13:15      0.0324
SCS_24h_Type_II_2.4in          13:30      0.0252
SCS_24h_Type_II_2.4in          13:45      0.0252
SCS_24h_Type_II_2.4in          14:00      0.018
SCS_24h_Type_II_2.4in          14:15      0.018
SCS_24h_Type_II_2.4in          14:30      0.018
SCS_24h_Type_II_2.4in          14:45      0.018
SCS_24h_Type_II_2.4in          15:00      0.018
SCS_24h_Type_II_2.4in          15:15      0.018
SCS_24h_Type_II_2.4in          15:30      0.018
SCS_24h_Type_II_2.4in          15:45      0.018
SCS_24h_Type_II_2.4in          16:00      0.0108
SCS_24h_Type_II_2.4in          16:15      0.0108
SCS_24h_Type_II_2.4in          16:30      0.0108
SCS_24h_Type_II_2.4in          16:45      0.0108
SCS_24h_Type_II_2.4in          17:00      0.0108
SCS_24h_Type_II_2.4in          17:15      0.0108
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SCS_24h_Type_II_2.4in          17:30      0.0108
SCS_24h_Type_II_2.4in          17:45      0.0108
SCS_24h_Type_II_2.4in          18:00      0.0108
SCS_24h_Type_II_2.4in          18:15      0.0108
SCS_24h_Type_II_2.4in          18:30      0.0108
SCS_24h_Type_II_2.4in          18:45      0.0108
SCS_24h_Type_II_2.4in          19:00      0.0108
SCS_24h_Type_II_2.4in          19:15      0.0108
SCS_24h_Type_II_2.4in          19:30      0.0108
SCS_24h_Type_II_2.4in          19:45      0.0108
SCS_24h_Type_II_2.4in          20:00      0.0072
SCS_24h_Type_II_2.4in          20:15      0.0072
SCS_24h_Type_II_2.4in          20:30      0.0072
SCS_24h_Type_II_2.4in          20:45      0.0072
SCS_24h_Type_II_2.4in          21:00      0.0072
SCS_24h_Type_II_2.4in          21:15      0.0072
SCS_24h_Type_II_2.4in          21:30      0.0072
SCS_24h_Type_II_2.4in          21:45      0.0072
SCS_24h_Type_II_2.4in          22:00      0.0072
SCS_24h_Type_II_2.4in          22:15      0.0072
SCS_24h_Type_II_2.4in          22:30      0.0072
SCS_24h_Type_II_2.4in          22:45      0.0072
SCS_24h_Type_II_2.4in          23:00      0.0072
SCS_24h_Type_II_2.4in          23:15      0.0072
SCS_24h_Type_II_2.4in          23:30      0.0072
SCS_24h_Type_II_2.4in          23:45      0.0072
SCS_24h_Type_II_2.4in          24:00      0


[REPORT]
INPUT      YES
CONTROLS   NO
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]

[MAP]
DIMENSIONS       2627991.2771     1421085.3153     2643140.1669     1440197.8307
UNITS            Feet

[COORDINATES]
;;Node           X-Coord          Y-Coord
;;-------------- ---------------- ----------------
J-BK23           2632549.251      1428103.662
J-BK22           2632833.947      1428033.9
J-BK21           2632274.22       1423995.698
J-BK19           2631678.586      1423746.817
J-BK18           2631184.638      1423484.927
J-BK17           2631165.107      1423503.156
J-BK13           2630626.859      1423224.882
J-BK16           2630323.189      1424009.028
J-BK15           2630284          1423703.462
J-BK12           2630196.575      1423080.157
J-BK11           2630196.064      1423101.068
J-BK10           2629587.422      1423101.4
J-BK09           2629895.814      1422889.857
J-BK08           2629649.044      1422573.913
J-BK05           2629355.271      1422816.051
J-BK06           2629483.396      1422722.276
J-BK04           2629076.076      1422542.077
J-BK02           2628826.609      1422232.453
J-BK14           2630624.308      1423234.927
J-BK20           2631667.287      1423754.682
J-BK07           2629605.666      1422609.494
J1               2632964.577      1426625.34
J2               2633116.46       1425039.12
J-BK01           2629046.878      1422082.713
OF1              2629038.04       1422071.674
J-BK03           2629301.858      1422547.939

[VERTICES]
;;Link           X-Coord          Y-Coord
;;-------------- ---------------- ----------------
C1               2633088.666      1427388.964
C1               2633250.936      1426949.88
C2               2632573.22       1427054.878
C2               2632764.126      1426730.338
C4               2632179.121      1424094.043
C4               2632131.356      1424104.099
C4               2631838.483      1423974.631
C4               2631786.947      1423946.978
C4               2631726.612      1423869.046
C4               2631688.903      1423811.225
C6               2631646.152      1423677.6
C6               2631618.823      1423671.601
C6               2631578.829      1423684.266
C6               2631557.498      1423677.6
C6               2631534.835      1423655.604
C6               2631524.837      1423600.945
C6               2631350.196      1423602.278
C6               2631325.532      1423542.287
C6               2631288.871      1423517.624
C8               2631171.672      1423446.007
C8               2631148.486      1423384.476
C8               2630967.461      1423274.79
C8               2630869.368      1423260.522
C8               2630735.605      1423266.765
C8               2630691.909      1423258.739
C10              2630572.415      1423237.337
C10              2630450.245      1423240.012
C10              2630411.007      1423230.203
C10              2630339.667      1423174.914
C10              2630293.296      1423120.517
C10              2630274.569      1423116.059
C12              2630147.049      1423050.069
C12              2630100.678      1422983.188
C12              2630010.611      1423040.26
C14              2629818.884      1422854.775
C14              2629719.008      1422911.847
C14              2629626.266      1422853.884
C19              2629402.353      1422684.149
C19              2629324.702      1422579.865
C20              2629276.849      1422522.441
C20              2629202.024      1422542.452
C20              2629010.612      1422321.458
C20              2629026.273      1422193.56
C21              2629274.239      1422495.469
C21              2629203.765      1422505.91
C21              2629034.974      1422322.328
C21              2629035.844      1422198.78
C26              2633174.878      1424284.178
C26              2632873.8        1424054.999

[Polygons]
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;;Subcatchment   X-Coord          Y-Coord
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BK01             2629132.702      1421954.066
BK01             2628826.559      1422194.376
BK01             2629068.133      1422500.624
BK01             2629371.778      1422261.701
BK02             2629032.773      1422528.319
BK02             2629068.133      1422500.624
BK02             2628826.559      1422194.376
BK02             2628679.863      1422309.526
BK02             2628790.971      1422451.319
BK02             2628797.132      1422471.878
BK02             2628886.316      1422586.809
BK02             2629002.837      1422492.349
BK02             2629032.773      1422528.319
BK03             2629606          1422563.625
BK03             2629371.778      1422261.701
BK03             2629068.133      1422500.624
BK03             2629313.265      1422802.285
BK03             2629606          1422563.625
BK10             2630250.895      1423485.209
BK10             2630239.593      1423394.084
BK10             2630221.816      1423338.859
BK10             2630189.119      1423283.79
BK10             2629999.465      1423058.928
BK10             2629975.385      1423030.366
BK10             2629841.497      1422858.727
BK10             2629703.988      1422971.068
BK10             2629546.397      1423099.815
BK10             2629777.778      1423374.231
BK10             2629808.239      1423434.614
BK10             2629904.5        1423428.625
BK10             2630081.896      1423603.369
BK10             2630243.302      1423714.487
BK10             2630257.994      1423917.693
BK10             2630294.443      1423962.17
BK10             2630275.546      1423683.959
BK10             2630270.159      1423640.523
BK10             2630250.895      1423485.209
BK04             2629313.265      1422802.285
BK04             2629068.133      1422500.624
BK04             2629032.773      1422528.319
BK04             2629174.747      1422739.329
BK04             2629194.278      1422832.645
BK04             2629187.924      1422903.185
BK04             2629313.265      1422802.285
BK08             2630139.811      1422630.342
BK08             2629903.085      1422332.062
BK08             2629829.649      1422391.896
BK08             2629606          1422563.625
BK08             2629841.497      1422858.727
BK08             2630139.811      1422630.342
BK05             2629664.788      1422957.36
BK05             2629635.006      1422945.345
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BK05             2629466.214      1422677.804
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BK05             2629313.265      1422802.285
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BK05             2629492.865      1423143.904
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BK18             2632015.853      1423445.405
BK18             2631556.841      1423258.266
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BK18             2631167.677      1423489
BK18             2631251.787      1423515.437
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BK18             2631530.999      1423654.739
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BK18             2631618.499      1423671.666
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BK18             2631667          1423707.35
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BK18             2632050.631      1423490.896
BK15             2631164.564      1423961.775
BK15             2631151.911      1423631.152
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BK15             2630590.749      1423652.872
BK15             2630400.572      1423666
BK15             2630275.546      1423683.959
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BK13	2631167.677	1423489
BK13	2631167.679	1423487.248
BK13	2631240.523	1423369.477
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BK23	2633104.064	1429373.695
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BK23	2630587.351	1429875.53
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BK23	2631899.863	1435479.45
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BK23	2632811.322	1437172.158
BK23	2636088.303	1437877.954
BK23	2636110.465	1438232.717
BK23	2636270.718	1438555.176
BK23	2636943.925	1438789.692
BK23	2637506.764	1438875.682
BK23	2637850.721	1438852.23
BK23	2638155.592	1438672.434
BK23	2638850.395	1439164.918
BK23	2639672.13	1439329.08
BK23	2641159.136	1439230.062
BK23	2641951.28	1439216.164
BK23	2642451.581	1439188.37
BK23	2642212.147	1438697.337
BK23	2641914.011	1438252.21
BK23	2641797.835	1438032.874
BK23	2641727.48	1437313.692
BK23	2641594.588	1436993.186
BK23	2641242.814	1436946.283
BK23	2640859.85	1436868.799
BK23	2640858.689	1436868.564
BK23	2640398.759	1437243.171
BK23	2640398.555	1437243.337
BK23	2639990.979	1437189.07
BK23	2639655.921	1436829.025
BK23	2639351.05	1436281.82
BK23	2638944.555	1435421.928
BK23	2638771.495	1434968.983
BK23	2638865.301	1433929.295
BK23	2638795.54	1433440.266
BK23	2638649.351	1433014.193
BK23	2638456.957	1432626.788
BK23	2638471.057	1432561.928
BK22	2632678.572	1428054.685
BK22	2632847.12	1428644.529
BK22	2633104.064	1429373.695
BK22	2633874.897	1429970.917
BK22	2635645.731	1431040.362
BK22	2635888.786	1431720.917
BK22	2637347.12	1431873.695

BK22	2638006.842	1432325.084
BK22	2638471.057	1432561.928
BK22	2638500.929	1432424.518
BK22	2638690.007	1432072.744
BK22	2638681.213	1431624.232
BK22	2638469.067	1431053.052
BK22	2638430.574	1430683.235
BK22	2638382.205	1430472.171
BK22	2638430.574	1430318.27
BK22	2638500.929	1429935.715
BK22	2637603.904	1429526.778
BK22	2637265.322	1429377.274
BK22	2636768.44	1429210.181
BK22	2636033.607	1429118.053
BK22	2635573.538	1429048.608
BK22	2634861.732	1428883.678
BK22	2634045.76	1428749.129
BK22	2633646.454	1428545.136
BK22	2632847.843	1427993.921
BK22	2632678.572	1428054.685
BK19	2632267.681	1424003.207
BK19	2632204.516	1423935.715
BK19	2632203.647	1423848.041
BK19	2632230.12	1423709.716
BK19	2632187.028	1423697.838
BK19	2632139.719	1423651.397
BK19	2632101.958	1423607.126
BK19	2632076.785	1423559.383
BK19	2632050.631	1423490.896
BK19	2632024.676	1423491.894
BK19	2631944.777	1423503.587
BK19	2631888.263	1423552.306
BK19	2631781.081	1423667.282
BK19	2631671.951	1423743.284
BK19	2631671.166	1423744.054
BK19	2631696.135	1423815.601
BK19	2631722.177	1423865.08
BK19	2631784.851	1423941.642
BK19	2631829.99	1423973.76
BK19	2631964.538	1424035.392
BK19	2632079.99	1424079.663
BK19	2632139.017	1424102.233
BK19	2632179.816	1424091.816
BK19	2632219.746	1424053.622
BK19	2632267.681	1424003.207
BK21	2632230.12	1423709.716
BK21	2632203.647	1423848.041
BK21	2632204.516	1423935.715
BK21	2632267.884	1424003.423
BK21	2632304.342	1424022.52
BK21	2632469.272	1424179.638
BK21	2632654.589	1424402.512
BK21	2632656.18	1424778.091
BK21	2632524.236	1425024.619
BK21	2632323.957	1426032.013
BK21	2632189.11	1426630.029
BK21	2632012.295	1427110.787
BK21	2631902.455	1427444.975
BK21	2631766.053	1427743.981
BK21	2631502.222	1428177.836
BK21	2631444.194	1428274.463
BK21	2631988.468	1428349.824
BK21	2632062.253	1428223.956

BK21	2632192.461	1428115.449
BK21	2632361.732	1428067.706
BK21	2632565.725	1428076.386
BK21	2632678.572	1428054.685
BK21	2632847.843	1427993.921
BK21	2633646.454	1428545.136
BK21	2634045.76	1428749.129
BK21	2634861.732	1428883.678
BK21	2635573.538	1429048.608
BK21	2636033.607	1429118.053
BK21	2636768.44	1429210.181
BK21	2636733.263	1428911.173
BK21	2636604.663	1428625.809
BK21	2636209.999	1428080.106
BK21	2635990.14	1427565.636
BK21	2635918.703	1426682.257
BK21	2635927.382	1426613.32
BK21	2635979.212	1426201.62
BK21	2636144.041	1425828.751
BK21	2635953.863	1425101.018
BK21	2635857.68	1424806.054
BK21	2635859.13	1424804.752
BK21	2635842.143	1424750.515
BK21	2633793.972	1423517.065
BK21	2633448.486	1423372.968
BK21	2633397.271	1423335.642
BK21	2633308.096	1423342.003
BK21	2633158.715	1423273.968
BK21	2633076.09	1423266.197
BK21	2632888.59	1423280.52
BK21	2632684.096	1423280.321
BK21	2632674.377	1423267.687
BK21	2632655.426	1423263.799
BK21	2632644.746	1423264.809
BK21	2632617.523	1423267.687
BK21	2632602.459	1423277.405
BK21	2632568.661	1423312.172
BK21	2632554.975	1423344.805
BK21	2632547.52	1423370.897
BK21	2632356.754	1423594.93
BK21	2632366.421	1423636.308
BK21	2632364.143	1423671.621
BK21	2632357.014	1423691.379
BK21	2632336.791	1423707.723
BK21	2632296.001	1423721.969
BK21	2632272.997	1423721.535
BK21	2632230.12	1423709.716
BK06	2629716.713	1422702.36
BK06	2629668.339	1422741.178
BK06	2629562.602	1422599.073
BK06	2629475.465	1422670.247
BK06	2629466.214	1422677.804
BK06	2629463.478	1422728.678
BK06	2629635.006	1422945.345
BK06	2629664.788	1422957.36
BK06	2629700.884	1422973.603
BK06	2629745.843	1422936.873
BK06	2629841.497	1422858.727
BK06	2629716.713	1422702.36
BK07	2629716.713	1422702.36
BK07	2629606	1422563.625
BK07	2629562.602	1422599.073
BK07	2629668.339	1422741.178
BK07	2629716.713	1422702.36
BK20	2632528.965	1424251.429
BK20	2632469.272	1424179.638
BK20	2632304.342	1424022.52
BK20	2632267.884	1424003.423
BK20	2632267.681	1424003.207
BK20	2632219.746	1424053.622
BK20	2632179.816	1424091.816
BK20	2632139.017	1424102.233
BK20	2632079.99	1424079.663
BK20	2631964.538	1424035.392
BK20	2631829.99	1423973.76
BK20	2631784.851	1423941.642
BK20	2631722.177	1423865.08
BK20	2631696.135	1423815.601
BK20	2631671.166	1423744.054
BK20	2631626.256	1423788.15
BK20	2631626.423	1423789.288
BK20	2631648.242	1423937.654
BK20	2631672.869	1424112.786
BK20	2631934.25	1424214
BK20	2632159.694	1424221.403
BK20	2632304.526	1424269.594
BK20	2632314.17	1424273.211
BK20	2632357.67	1424279.978
BK20	2632528.965	1424251.429

[SYMBOLS]

```
;;Gage           X-Coord          Y-Coord
;;-------------- ---------------- ----------------
```

```
[TITLE]
Copper Ridge Basin - Future Conditions
UDFCD gauge 100 year 2 hr
12/2012-Link C4 was rerouted from J-CR29 to J-CR33 per Ben Beall


[OPTIONS]
FLOW_UNITS           CFS
INFILTRATION         HORTON
FLOW_ROUTING         KINWAVE
START_DATE           07/31/2012
START_TIME           00:00:00
REPORT_START_DATE    07/31/2012
REPORT_START_TIME    00:00:00
END_DATE             08/01/2012
END_TIME             03:00:00
SWEEP_START          01/01
SWEEP_END            12/31
DRY_DAYS             0
REPORT_STEP          0:05:00
WET_STEP             0:05:00
DRY_STEP             0:05:00
ROUTING_STEP         300
ALLOW_PONDING        NO
INERTIAL_DAMPING     PARTIAL
VARIABLE_STEP        0.75
LENGTHENING_STEP     0
MIN_SURFAREA         0
NORMAL_FLOW_LIMITED  BOTH
SKIP_STEADY_STATE    NO
FORCE_MAIN_EQUATION  H-W
LINK_OFFSETS         DEPTH
MIN_SLOPE            0

[EVAPORATION]
;;Type          Parameters
;;------------- ----------
CONSTANT     0.0
DRY_ONLY     NO

[RAINGAGES]
;;               Rain      Time   Snow   Data
;;Name           Type      Intrvl Catch  Source
;;-------------- --------- ------ ------ ----------
rg100            INTENSITY 0:15   1.0    TIMESERIES SCS_24h_Type_II_2.8in
UDFCD100         VOLUME    0:05   1.0    TIMESERIES UDFCD100

[SUBCATCHMENTS]
;;                                          Total    Pcnt.             Pcnt.    Curb
Snow
;;Name           Raingage         Outlet           Area     Imperv   Width    Slope    Length
Pack
;;-------------- ---------------- ---------------- -------- -------- -------- -------- --------
--------
CR13             UDFCD100         J-CR13           26.2     60.2     4707     3.74761  0
CR36             UDFCD100         J-CR36           524.76   5.2      13172.8  16.3488  0
CR33             UDFCD100         J-CR33           179.28   11.4     10028.2  15.3467  0
CR20             UDFCD100         J-CR20           19.96    29.1     3966     10.8926  0
CR19             UDFCD100         J-CR19           44.32    55.2     5185.6   15.3348  0
CR30             UDFCD100         J-CR30           21.89    68.9     4991.3   9.28816  0
CR16             UDFCD100         J-CR16           22.01    87.6     3806     2.31214  0
CR17             UDFCD100         J-CR17           29.42    87.8     2797.6   1.93309  0
CR24             UDFCD100         J-CR24           89.51    12.3     7620.9   18.8482  0
CR28             UDFCD100         J-CR28           27.31    68.1     2405.7   2.92638  0
CR27             UDFCD100         J-CR27           42.32    44.8     5531.8   11.0018  0
CR25             UDFCD100         J-CR25           59.6     3.1      7728     17.236   0
CR34             UDFCD100         J-CR34           105.2    2.8      6391     14.3264  0
CR31             UDFCD100         J-CR31           53.02    33       4748.1   9.23738  0
CR29             UDFCD100         J-CR29           25.05    83.1     2151.6   8.89571  0
CR22             UDFCD100         J-CR22           196.1    14.8     9959.4   13.6635  0
CR10             UDFCD100         J-CR10           5.93     18.4     1303.9   1.04302  0
CR08             UDFCD100         J-CR08           24.06    40.6     3989.9   0.937367 0
CR05             UDFCD100         J-CR05           24.83    86.9     2938.6   1.04812  0
CR21             UDFCD100         J-CR21           20.94    58.5     2680.6   10.1843  0
CR18             UDFCD100         J-CR18           9.3      95.4     922.48   18.0383  0
CR26             UDFCD100         J-CR26           7.18     21.8     2218.5   19.4636  0
CR35             UDFCD100         J-CR35           59.54    70.7     4148.8   5.39915  0
CR32             UDFCD100         J-CR32           49.22    59.1     4362.4   6.88153  0
CR14             UDFCD100         J-CR14           10.58    92.2     1040.6   9.09091  0
CR12             UDFCD100         J-CR12           15.01    72.1     2977.3   1.27632  0
CR11             UDFCD100         J-CR11           5.62     58.1     1322.4   0.862069 0
CR15             UDFCD100         J-CR15           21.33    90.1     2020.8   6.33413  0
CR09             UDFCD100         J-CR09           6.87     58.7     2108     0.759013 0
CR03             UDFCD100         J-CR03           18.95    92.2     2116.5   1.60643  0
CR04             UDFCD100         J-CR04           7.28     96.4     865.28   1.20192  0
CR07             UDFCD100         J-CR07           23.35    90.1     2509.2   1.57819  0
CR23             UDFCD100         J-CR23           36.81    23       2258.2   27.6503  0
CR02             UDFCD100         J-CR02           6.3      65.5     806      1.29032  0
CR37             UDFCD100         J-CR37           22.52    50.1     4120     1.16505  0
CR06             UDFCD100         J-CR06           8.97     5.4      1995.8   1.1925   0
CR01             UDFCD100         J-CR01           18.45    71.1     2934.1   1.15197  0

[SUBAREAS]
;;Subcatchment   N-Imperv   N-Perv     S-Imperv   S-Perv     PctZero    RouteTo    PctRouted
;;-------------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
CR13             0.02       0.2        0.1        0.35       10         OUTLET
CR36             0.02       0.2        0.1        0.35       10         OUTLET
CR33             0.02       0.2        0.1        0.35       10         OUTLET
CR20             0.02       0.2        0.1        0.35       10         OUTLET
CR19             0.02       0.2        0.1        0.35       10         OUTLET
CR30             0.02       0.2        0.1        0.35       10         OUTLET
CR16             0.02       0.2        0.1        0.35       10         OUTLET
CR17             0.02       0.2        0.1        0.35       10         OUTLET
CR24             0.02       0.2        0.1        0.35       10         OUTLET
CR28             0.02       0.2        0.1        0.35       10         OUTLET
CR27             0.02       0.2        0.1        0.35       10         OUTLET
CR25             0.02       0.2        0.1        0.35       10         OUTLET
CR34             0.02       0.2        0.1        0.35       10         OUTLET
CR31             0.02       0.2        0.1        0.35       10         OUTLET
CR29             0.02       0.2        0.1        0.35       10         OUTLET
CR22             0.02       0.2        0.1        0.35       10         OUTLET
CR10             0.02       0.2        0.1        0.35       10         OUTLET
CR08             0.02       0.2        0.1        0.35       10         OUTLET
CR05             0.02       0.2        0.1        0.35       10         OUTLET
CR21             0.02       0.2        0.1        0.35       10         OUTLET
CR18             0.02       0.2        0.1        0.35       10         OUTLET
CR26             0.02       0.2        0.1        0.35       10         OUTLET
CR35             0.02       0.2        0.1        0.35       10         OUTLET
CR32             0.02       0.2        0.1        0.35       10         OUTLET
CR14             0.02       0.2        0.1        0.35       10         OUTLET
CR12             0.02       0.2        0.1        0.35       10         OUTLET
CR11             0.02       0.2        0.1        0.35       10         OUTLET
CR15             0.02       0.2        0.1        0.35       10         OUTLET
CR09             0.02       0.2        0.1        0.35       10         OUTLET
CR03             0.02       0.2        0.1        0.35       10         OUTLET
CR04             0.02       0.2        0.1        0.35       10         OUTLET
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CR07             0.02       0.2        0.1        0.35       10         OUTLET
CR23             0.02       0.2        0.1        0.35       10         OUTLET
CR02             0.02       0.2        0.1        0.35       10         OUTLET
CR37             0.02       0.2        0.1        0.35       10         OUTLET
CR06             0.02       0.2        0.1        0.35       10         OUTLET
CR01             0.02       0.2        0.1        0.35       10         OUTLET

[INFILTRATION]
;;Subcatchment   MaxRate    MinRate    Decay      DryTime    MaxInfil
;;-------------- ---------- ---------- ---------- ---------- ----------
CR13             3          0.5        6.48       7          0
CR36             3          0.5        6.48       7          0
CR33             3          0.5        6.48       7          0
CR20             3          0.5        6.48       7          0
CR19             3          0.5        6.48       7          0
CR30             3          0.5        6.48       7          0
CR16             3          0.5        6.48       7          0
CR17             3          0.5        6.48       7          0
CR24             3          0.5        6.48       7          0
CR28             3          0.5        6.48       7          0
CR27             3          0.5        6.48       7          0
CR25             3          0.5        6.48       7          0
CR34             3          0.5        6.48       7          0
CR31             3          0.5        6.48       7          0
CR29             3          0.5        6.48       7          0
CR22             3          0.5        6.48       7          0
CR10             3          0.5        6.48       7          0
CR08             3          0.5        6.48       7          0
CR05             3          0.5        6.48       7          0
CR21             3          0.5        6.48       7          0
CR18             3          0.5        6.48       7          0
CR26             3          0.5        6.48       7          0
CR35             3          0.5        6.48       7          0
CR32             3          0.5        6.48       7          0
CR14             3          0.5        6.48       7          0
CR12             3          0.5        6.48       7          0
CR11             3          0.5        6.48       7          0
CR15             3          0.5        6.48       7          0
CR09             3          0.5        6.48       7          0
CR03             3          0.5        6.48       7          0
CR04             3          0.5        6.48       7          0
CR07             3          0.5        6.48       7          0
CR23             3          0.5        6.48       7          0
CR02             3          0.5        6.48       7          0
CR37             3          0.5        6.48       7          0
CR06             3          0.5        6.48       7          0
CR01             3          0.5        6.48       7          0

[JUNCTIONS]
;;               Invert     Max.       Init.      Surcharge  Ponded
;;Name           Elev.      Depth      Depth      Depth      Area
;;-------------- ---------- ---------- ---------- ---------- ----------
J-CR21           6680       0          0          0          0
J-CR05           6652       0          0          0          0
J-CR08           6646       0          0          0          0
J-CR16           6680       0          0          0          0
J-CR15           6668       0          0          0          0
J-CR20           6672       0          0          0          0
J-CR24           6682       0          0          0          0
J-CR27           6684       0          0          0          0
J-CR28           6704       0          0          0          0
J-CR29           6708       0          0          0          0
J-CR31           6698       0          0          0          0
J-CR30           6712       0          0          0          0
J-CR33           6710       0          0          0          0
J-CR25           6774       0          0          0          0
J-CR34           6766       0          0          0          0
J-CR36           6734       0          0          0          0
J-CR22           6684       0          0          0          0
J-CR18           6674       0          0          0          0
J-CR26           6786       0          0          0          0
J-CR35           6740       0          0          0          0
J-CR32           6720       0          0          0          0
J-CR13           6652       0          0          0          0
J-CR14           6662       0          0          0          0
J-CR09           6644       0          0          0          0
J-CR10           6638       0          0          0          0
J-CR03           6662       0          0          0          0
J-CR04           6664       0          0          0          0
J-CR07           6654       0          0          0          0
J-CR23           6690       0          0          0          0
J-CR01           6662       0          0          0          0
J-CR02           6660       0          0          0          0
J-CR11           6642       0          0          0          0
J-CR06           6648       0          0          0          0
J-CR37           6674       0          0          0          0
J1               6708       0          0          0          0
J2               6668       0          0          0          0
J3               6658       0          0          0          0
J4               6688       0          0          0          0
J5               6666       0          0          0          0
J6               6654.16    0          0          0          0
J7               6685.66    0          0          0          0
J8               6742.8     0          0          0          0
J9               6652       0          0          0          0
J10              6648       0          0          0          0
J11              6646       0          0          0          0
J12              6638       0          0          0          0
J-CR12           6635       0          0          0          0

[OUTFALLS]
;;               Invert     Outfall    Stage/Table      Tide
;;Name           Elev.      Type       Time Series      Gate
;;-------------- ---------- ---------- ---------------- ----
OF1              6635       FREE                         NO

[DIVIDERS]
;;               Invert     Diverted         Divider
;;Name           Elev.      Link             Type       Parameters
;;-------------- ---------- ---------------- ---------- ----------
J-CR17           6670       C29              CUTOFF     189        0          0          0
0

[STORAGE]
;;               Invert   Max.     Init.    Storage    Curve                      Ponded
Evap.
;;Name           Elev.    Depth    Depth    Curve      Params                     Area
Frac.    Infiltration Parameters
;;-------------- -------- -------- -------- ---------- -------- -------- -------- -------- ----
---- ------------------------
J-CR19           6672     8        0        TABULAR    LincolnandELk              0        0

[CONDUITS]
;;               Inlet            Outlet                      Manning    Inlet      Outlet
Init.      Max.
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;;Name           Node             Node             Length     N          Offset     Offset
Flow       Flow
;;-------------- ---------------- ---------------- ---------- ---------- ---------- ----------
---------- ----------
C1               J-CR35           J-CR32           1146.85    0.01       0          0
0          0
C2               J-CR36           J-CR33           1250.93    0.01       0          0
0          0
C3               J-CR25           J-CR34           79.91      0.01       0          0
0          0
C4               J-CR32           J-CR33           278.65     0.01       0          0
0          0
C5               J-CR29           J7               1233.33    0.01       0          0
0          0
C6               J-CR28           J-CR27           1157.26    0.01       0          0
0          0
C7               J-CR27           J-CR24           239.42     0.01       0          0
0          0
C8               J-CR24           J-CR18           732.36     0.01       0          0
0          0
C9               J-CR18           J-CR19           378.55     0.01       0          0
0          0
C10              J-CR26           J-CR25           318.1      0.01       0          0
0          0
C11              J-CR34           J8               568.05     0.01       0          0
0          0
C12              J-CR33           J1               191.7      0.01       0          0
0          0
C13              J1               J-CR28           646.31     0.01       0          0
0          0
C14              J-CR30           J-CR31           323.48     0.01       0          0
0          0
C15              J-CR16           J-CR14           602.07     0.01       0          0
0          0
C16              J12              OF1              522.1      0.01       0          0
0          0
C17              J11              J12              899.23     0.01       0          0
0          0
C18              J10              J11              1042.08    0.01       0          0
0          0
C19              J-CR02           J9               1167.66    0.01       0          0
0          0
C20              J9               J10              914.08     0.01       0          0
0          0
C21              J-CR11           J-CR10           256.58     0.01       0          0
0          0
C22              J-CR09           J-CR10           534.26     0.01       0          0
0          0
C23              J-CR13           J-CR12           1120.5     0.01       0          0
0          0
C24              J-CR15           J-CR07           927.62     0.01       0          0
0          0
C25              J-CR07           J-CR06           687.98     0.01       0          0
0          0
C26              J-CR14           J6               847.27     0.01       0          0
0          0
C27              J-CR31           J-CR13           1505.63    0.01       0          0
0          0
C28              J-CR17           J2               378        0.013      0          0
0          0
C29              J-CR17           J2               378        0.01       0          0
0          0
C30              J2               J3               780.09     0.01       0          0
0          0
C32              J3               J-CR05           756.53     0.01       0          0
0          0
C33              J-CR04           J3               557.46     0.01       0          0
0          0
C34              J-CR37           J5               1220.8     0.01       0          0
0          0
C35              J-CR01           J-CR02           876.93     0.01       0          0
0          0
C36              J-CR23           J4               1125.32    0.01       0          0
0          0
C37              J4               J-CR37           407.38     0.01       0          0
0          0
C38              J-CR21           J-CR20           267.28     0.01       0          0
0          0
C39              J5               J-CR01           1019.15    0.01       0          0
0          0
C40              J-CR22           J5               426.66     0.01       0          0
0          0
C41              J-CR20           J3               1158.26    0.01       0          0
0          0
C42              J-CR03           J-CR05           1142.82    0.01       0          0
0          0
C43              J6               J-CR08           879.22     0.01       0          0
0          0
C44              J7               J-CR17           865.73     0.01       0          0
0          0
C45              J8               J1               920.23     0.01       0          0
0          0
C46              J-CR05           J9               27.73      0.01       0          0
0          0
C47              J-CR06           J10              30.76      0.01       0          0
0          0
C48              J-CR08           J11              14.84      0.01       0          0
0          0
C49              J-CR10           J12              16.9       0.01       0          0
0          0
C50              J-CR12           OF1              14.59      0.01       0          0
0          0
```

[ORIFICES]

```
;;               Inlet            Outlet           Orifice    Crest      Disch.     Flap
Open/Close
;;Name           Node             Node             Type       Height     Coeff.     Gate Time
;;-------------- ---------------- ---------------- ---------- ---------- ---------- ---- ----
------
C31              J-CR19           J2               SIDE       0          0.65       NO   0
```

[WEIRS]

```
;;               Inlet            Outlet           Weir       Crest      Disch.     Flap End
End
;;Name           Node             Node             Type       Height     Coeff.     Gate Con.
Coeff.
;;-------------- ---------------- ---------------- ---------- ---------- ---------- ---- ----
---- ----------
W1               J-CR19           J2               TRAPEZOIDAL 5         3.33       NO   0
0
```

[XSECTIONS]

```
;;Link           Shape        Geom1            Geom2      Geom3      Geom4      Barrels
;;-------------- ------------ ---------------- ---------- ---------- ---------- ----------
C1               IRREGULAR    channel-overflow1s 0          0          0          1
```

```
C2              IRREGULAR    channel-overflow1s 0          0          0          1
C3              IRREGULAR    street-overflow  0          0          0          1
C4              IRREGULAR    channel-overflow1s 0          0          0          1
C5              IRREGULAR    channel-overflow1s 0          0          0          1
C6              IRREGULAR    channel-overflow1s 0          0          0          1
C7              IRREGULAR    channel-overflow1s 0          0          0          1
C8              IRREGULAR    channel-overflow1s 0          0          0          1
C9              IRREGULAR    channel-overflow1s 0          0          0          1
C10             IRREGULAR    street-overflow  0          0          0          1
C11             IRREGULAR    channel-overflow1s 0          0          0          1
C12             IRREGULAR    channel-overflow1s 0          0          0          1
C13             IRREGULAR    channel-overflow1s 0          0          0          1
C14             IRREGULAR    street-overflow  0          0          0          1
C15             IRREGULAR    street-overflow  0          0          0          1
C16             IRREGULAR    largeriver       0          0          0          1
C17             IRREGULAR    largeriver       0          0          0          1
C18             IRREGULAR    largeriver       0          0          0          1
C19             IRREGULAR    largeriver       0          0          0          1
C20             IRREGULAR    largeriver       0          0          0          1
C21             IRREGULAR    channel-main1st  0          0          0          1
C22             IRREGULAR    channel-main1st  0          0          0          1
C23             IRREGULAR    street-overflow  0          0          0          1
C24             IRREGULAR    channel-main2nd  0          0          0          1
C25             IRREGULAR    channel-overflow2n 0          0          0          1
C26             IRREGULAR    channel-overflow1s 0          0          0          1
C27             IRREGULAR    channel-overflow1s 0          0          0          1
C28             CIRCULAR     5                0          0          0          1
C29             IRREGULAR    street-overflow  0          0          0          1
C30             IRREGULAR    channel-overflow2n 0          0          0          1
C32             IRREGULAR    channel-overflow2n 0          0          0          1
C33             IRREGULAR    channel-main1st  0          0          0          1
C34             IRREGULAR    largeriver       0          0          0          1
C35             IRREGULAR    largeriver       0          0          0          1
C36             IRREGULAR    street-overflow  0          0          0          1
C37             IRREGULAR    channel-overflow1s 0          0          0          1
C38             IRREGULAR    channel-main1st  0          0          0          1
C39             IRREGULAR    largeriver       0          0          0          1
C40             IRREGULAR    channel-overflow2n 0          0          0          1
C41             IRREGULAR    channel-overflow1s 0          0          0          1
C42             IRREGULAR    channel-overflow1s 0          0          0          1
C43             IRREGULAR    channel-overflow1s 0          0          0          1
C44             IRREGULAR    channel-overflow1s 0          0          0          1
C45             IRREGULAR    street-overflow  0          0          0          1
C46             DUMMY        0                0          0          0          1
C47             DUMMY        0                0          0          0          1
C48             DUMMY        0                0          0          0          1
C49             DUMMY        0                0          0          0          1
C50             DUMMY        0                0          0          0          1
C31             CIRCULAR     1.5              0          0          0
W1              TRAPEZOIDAL  1                50         50         50
```

[TRANSECTS]

```
NC 0.0625   0.0625   0.0375
X1 channel-main1st  8        4        8        0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        8
GR 0.5      8        1.5      12       5.5      28

NC 0.0625   0.0625   0.0375
X1 channel-main2nd  8        4        12       0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        12
GR 0.5      12       1.5      16       5.5      32

NC 0.0625   0.0625   0.0375
X1 channel-main3rd  8        4        16       0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        16
GR 0.5      16       1.5      20       5.5      36

NC 0.0625   0.0625   0.0375
X1 channel-overflow1s 8        20       28       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        28
GR 1        28       2        48       6        128

NC 0.0625   0.0625   0.0375
X1 channel-overflow2n 8        20       35       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        35
GR 1        35       2        55       6        135

NC 0.0625   0.0625   0.0375
X1 channel-overflow3r 8        20       50       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        60
GR 1        60       2        80       6        160

NC 0.0625   0.0625   0.01875
X1 street-main      9        6        30.5     0.0       0.0       0.0      0.0      0.0
GR 7        -18      1        0        0        3        1        6        1.25     18.5
GR 1        30.5     0        33.5     1        36.5     7        54.5

NC 0.0625   0.0625   0.01875
X1 street-overflow  11       13       53       0.0       0.0       0.0      0.0      0.0
GR 3        -20      2        0        0        6        0        7        2        13
GR 2.4      33       2        53       0        59       0        60       2        66
GR 3        86

NC 0.0625   0.0625   0.035
X1 largeriver       12       21       41       0.0       0.0       0.0      0.0      0.0
GR 10       -45      7        -45      5        -5       4        15       2        21
GR 0        21       0        41       2        41       4        47       5        67
GR 7        107      10       107

NC 0.122    0.122    0.073
X1 channel-main1a   8        4        8        0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        8
GR 0.5      8        1.5      12       5.5      28

NC 0.122    0.122    0.073
X1 channel-overflow1a 8        20       28       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        28
GR 1        28       2        48       6        128

NC 0.122    0.122    0.073
X1 Channel-overflow2a 8        20       35       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        35
GR 1        35       2        55       6        135
```

[LOSSES]

```
;;Link           Inlet      Outlet     Average    Flap Gate
;;-------------- ---------- ---------- ---------- ----------
```

[CURVES]

```
;;Name           Type       X-Value    Y-Value
;;-------------- ---------- ---------- ----------
LincolnandELk    Storage    0          1521
LincolnandELk                2          19440
LincolnandELk                4          42896
```

```
[TIMESERIES]
;;Name           Date       Time       Value
;;-------------- ---------- ---------- ----------
;SCS_24h_Type_II_2.8in design storm, total rainfall = 2.8 in, rain units = in/hr.
SCS_24h_Type_II_2.8in            0:00       0
SCS_24h_Type_II_2.8in            0:15       0.03696
SCS_24h_Type_II_2.8in            0:30       0.03696
SCS_24h_Type_II_2.8in            0:45       0.03808
SCS_24h_Type_II_2.8in            1:00       0.03696
SCS_24h_Type_II_2.8in            1:15       0.03696
SCS_24h_Type_II_2.8in            1:30       0.03808
SCS_24h_Type_II_2.8in            1:45       0.03696
SCS_24h_Type_II_2.8in            2:00       0.03696
SCS_24h_Type_II_2.8in            2:15       0.03808
SCS_24h_Type_II_2.8in            2:30       0.03696
SCS_24h_Type_II_2.8in            2:45       0.03696
SCS_24h_Type_II_2.8in            3:00       0.03808
SCS_24h_Type_II_2.8in            3:15       0.03696
SCS_24h_Type_II_2.8in            3:30       0.03696
SCS_24h_Type_II_2.8in            3:45       0.03808
SCS_24h_Type_II_2.8in            4:00       0.03696
SCS_24h_Type_II_2.8in            4:15       0.03696
SCS_24h_Type_II_2.8in            4:30       0.03808
SCS_24h_Type_II_2.8in            4:45       0.03696
SCS_24h_Type_II_2.8in            5:00       0.03696
SCS_24h_Type_II_2.8in            5:15       0.03808
SCS_24h_Type_II_2.8in            5:30       0.03696
SCS_24h_Type_II_2.8in            5:45       0.03696
SCS_24h_Type_II_2.8in            6:00       0.03808
SCS_24h_Type_II_2.8in            6:15       0.03696
SCS_24h_Type_II_2.8in            6:30       0.03696
SCS_24h_Type_II_2.8in            6:45       0.03808
SCS_24h_Type_II_2.8in            7:00       0.03696
SCS_24h_Type_II_2.8in            7:15       0.03696
SCS_24h_Type_II_2.8in            7:30       0.03808
SCS_24h_Type_II_2.8in            7:45       0.07392
SCS_24h_Type_II_2.8in            8:00       0.07504
SCS_24h_Type_II_2.8in            8:15       0.07504
SCS_24h_Type_II_2.8in            8:30       0.07392
SCS_24h_Type_II_2.8in            8:45       0.07504
SCS_24h_Type_II_2.8in            9:00       0.07504
SCS_24h_Type_II_2.8in            9:15       0.112
SCS_24h_Type_II_2.8in            9:30       0.112
SCS_24h_Type_II_2.8in            9:45       0.112
SCS_24h_Type_II_2.8in            10:00      0.112
SCS_24h_Type_II_2.8in            10:15      0.112
SCS_24h_Type_II_2.8in            10:30      0.112
SCS_24h_Type_II_2.8in            10:45      0.224
SCS_24h_Type_II_2.8in            11:00      0.224
SCS_24h_Type_II_2.8in            11:15      0.336
SCS_24h_Type_II_2.8in            11:30      0.56
SCS_24h_Type_II_2.8in            11:45      0.672
SCS_24h_Type_II_2.8in            12:00      1.344
SCS_24h_Type_II_2.8in            12:15      1.344
SCS_24h_Type_II_2.8in            12:30      0.672
SCS_24h_Type_II_2.8in            12:45      0.56
SCS_24h_Type_II_2.8in            13:00      0.336
SCS_24h_Type_II_2.8in            13:15      0.224
SCS_24h_Type_II_2.8in            13:30      0.224
SCS_24h_Type_II_2.8in            13:45      0.112
SCS_24h_Type_II_2.8in            14:00      0.112
SCS_24h_Type_II_2.8in            14:15      0.112
SCS_24h_Type_II_2.8in            14:30      0.112
SCS_24h_Type_II_2.8in            14:45      0.112
SCS_24h_Type_II_2.8in            15:00      0.112
SCS_24h_Type_II_2.8in            15:15      0.07392
SCS_24h_Type_II_2.8in            15:30      0.07504
SCS_24h_Type_II_2.8in            15:45      0.07504
SCS_24h_Type_II_2.8in            16:00      0.07392
SCS_24h_Type_II_2.8in            16:15      0.07504
SCS_24h_Type_II_2.8in            16:30      0.07504
SCS_24h_Type_II_2.8in            16:45      0.03696
SCS_24h_Type_II_2.8in            17:00      0.03696
SCS_24h_Type_II_2.8in            17:15      0.03808
SCS_24h_Type_II_2.8in            17:30      0.03696
SCS_24h_Type_II_2.8in            17:45      0.03696
SCS_24h_Type_II_2.8in            18:00      0.03808
SCS_24h_Type_II_2.8in            18:15      0.03696
SCS_24h_Type_II_2.8in            18:30      0.03696
SCS_24h_Type_II_2.8in            18:45      0.03808
SCS_24h_Type_II_2.8in            19:00      0.03696
SCS_24h_Type_II_2.8in            19:15      0.03696
SCS_24h_Type_II_2.8in            19:30      0.03808
SCS_24h_Type_II_2.8in            19:45      0.03696
SCS_24h_Type_II_2.8in            20:00      0.03696
SCS_24h_Type_II_2.8in            20:15      0.03808
SCS_24h_Type_II_2.8in            20:30      0.03696
SCS_24h_Type_II_2.8in            20:45      0.03696
SCS_24h_Type_II_2.8in            21:00      0.03808
SCS_24h_Type_II_2.8in            21:15      0.03696
SCS_24h_Type_II_2.8in            21:30      0.03696
SCS_24h_Type_II_2.8in            21:45      0.03808
SCS_24h_Type_II_2.8in            22:00      0.03696
SCS_24h_Type_II_2.8in            22:15      0.03696
SCS_24h_Type_II_2.8in            22:30      0.03808
SCS_24h_Type_II_2.8in            22:45      0.03696
SCS_24h_Type_II_2.8in            23:00      0.03696
SCS_24h_Type_II_2.8in            23:15      0.03808
SCS_24h_Type_II_2.8in            23:30      0.03696
SCS_24h_Type_II_2.8in            23:45      0.03696
SCS_24h_Type_II_2.8in            24:00      0.03808

UDFCD100                    0:05       0.0146
UDFCD100                    0:10       0.0438
UDFCD100                    0:15       0.06716
UDFCD100                    0:20       0.1168
UDFCD100                    0:25       0.2044
UDFCD100                    0:30       0.365
UDFCD100                    0:35       0.2044
UDFCD100                    0:40       0.1168
UDFCD100                    0:45       0.09052
UDFCD100                    0:50       0.073
UDFCD100                    0:55       0.0584
UDFCD100                    1:00       0.0584
UDFCD100                    1:05       0.0584
UDFCD100                    1:10       0.0292
UDFCD100                    1:15       0.0292
UDFCD100                    1:20       0.01752
UDFCD100                    1:25       0.01752
UDFCD100                    1:30       0.01752
UDFCD100                    1:35       0.01752
UDFCD100                    1:40       0.01752
UDFCD100                    1:45       0.01752
UDFCD100                    1:50       0.01752
UDFCD100                    1:55       0.01752
UDFCD100                    2:00       0.01752
```

```
UDFCD100                    2:05       0

;SCS_24h_Type_II_1.7in design storm, total rainfall = 1.7 in, rain units = in.
SCS_24h_Type_II_1.7in            0:00       0.00468
SCS_24h_Type_II_1.7in            0:15       0.00468
SCS_24h_Type_II_1.7in            0:30       0.00468
SCS_24h_Type_II_1.7in            0:45       0.00468
SCS_24h_Type_II_1.7in            1:00       0.00468
SCS_24h_Type_II_1.7in            1:15       0.00468
SCS_24h_Type_II_1.7in            1:30       0.00468
SCS_24h_Type_II_1.7in            1:45       0.00468
SCS_24h_Type_II_1.7in            2:00       0.00552
SCS_24h_Type_II_1.7in            2:15       0.00552
SCS_24h_Type_II_1.7in            2:30       0.00552
SCS_24h_Type_II_1.7in            2:45       0.00552
SCS_24h_Type_II_1.7in            3:00       0.00552
SCS_24h_Type_II_1.7in            3:15       0.00552
SCS_24h_Type_II_1.7in            3:30       0.00552
SCS_24h_Type_II_1.7in            3:45       0.00552
SCS_24h_Type_II_1.7in            4:00       0.0068
SCS_24h_Type_II_1.7in            4:15       0.0068
SCS_24h_Type_II_1.7in            4:30       0.0068
SCS_24h_Type_II_1.7in            4:45       0.0068
SCS_24h_Type_II_1.7in            5:00       0.0068
SCS_24h_Type_II_1.7in            5:15       0.0068
SCS_24h_Type_II_1.7in            5:30       0.0068
SCS_24h_Type_II_1.7in            5:45       0.0068
SCS_24h_Type_II_1.7in            6:00       0.00765
SCS_24h_Type_II_1.7in            6:15       0.00765
SCS_24h_Type_II_1.7in            6:30       0.00765
SCS_24h_Type_II_1.7in            6:45       0.00765
SCS_24h_Type_II_1.7in            7:00       0.00935
SCS_24h_Type_II_1.7in            7:15       0.00935
SCS_24h_Type_II_1.7in            7:30       0.00935
SCS_24h_Type_II_1.7in            7:45       0.00935
SCS_24h_Type_II_1.7in            8:00       0.0111
SCS_24h_Type_II_1.7in            8:15       0.0111
SCS_24h_Type_II_1.7in            8:30       0.0119
SCS_24h_Type_II_1.7in            8:45       0.0119
SCS_24h_Type_II_1.7in            9:00       0.0136
SCS_24h_Type_II_1.7in            9:15       0.0136
SCS_24h_Type_II_1.7in            9:30       0.0153
SCS_24h_Type_II_1.7in            9:45       0.0153
SCS_24h_Type_II_1.7in            10:00      0.0196
SCS_24h_Type_II_1.7in            10:15      0.0196
SCS_24h_Type_II_1.7in            10:30      0.0264
SCS_24h_Type_II_1.7in            10:45      0.0264
SCS_24h_Type_II_1.7in            11:00      0.0408
SCS_24h_Type_II_1.7in            11:15      0.0408
SCS_24h_Type_II_1.7in            11:30      0.126
SCS_24h_Type_II_1.7in            11:45      0.52
SCS_24h_Type_II_1.7in            12:00      0.0612
SCS_24h_Type_II_1.7in            12:15      0.0612
SCS_24h_Type_II_1.7in            12:30      0.0314
SCS_24h_Type_II_1.7in            12:45      0.0314
SCS_24h_Type_II_1.7in            13:00      0.023
SCS_24h_Type_II_1.7in            13:15      0.023
SCS_24h_Type_II_1.7in            13:30      0.0178
SCS_24h_Type_II_1.7in            13:45      0.0178
SCS_24h_Type_II_1.7in            14:00      0.0127
SCS_24h_Type_II_1.7in            14:15      0.0127
SCS_24h_Type_II_1.7in            14:30      0.0127
SCS_24h_Type_II_1.7in            14:45      0.0127
SCS_24h_Type_II_1.7in            15:00      0.0127
SCS_24h_Type_II_1.7in            15:15      0.0127
SCS_24h_Type_II_1.7in            15:30      0.0127
SCS_24h_Type_II_1.7in            15:45      0.0127
SCS_24h_Type_II_1.7in            16:00      0.00765
SCS_24h_Type_II_1.7in            16:15      0.00765
SCS_24h_Type_II_1.7in            16:30      0.00765
SCS_24h_Type_II_1.7in            16:45      0.00765
SCS_24h_Type_II_1.7in            17:00      0.00765
SCS_24h_Type_II_1.7in            17:15      0.00765
SCS_24h_Type_II_1.7in            17:30      0.00765
SCS_24h_Type_II_1.7in            17:45      0.00765
SCS_24h_Type_II_1.7in            18:00      0.00765
SCS_24h_Type_II_1.7in            18:15      0.00765
SCS_24h_Type_II_1.7in            18:30      0.00765
SCS_24h_Type_II_1.7in            18:45      0.00765
SCS_24h_Type_II_1.7in            19:00      0.00765
SCS_24h_Type_II_1.7in            19:15      0.00765
SCS_24h_Type_II_1.7in            19:30      0.00765
SCS_24h_Type_II_1.7in            19:45      0.00765
SCS_24h_Type_II_1.7in            20:00      0.0051
SCS_24h_Type_II_1.7in            20:15      0.0051
SCS_24h_Type_II_1.7in            20:30      0.0051
SCS_24h_Type_II_1.7in            20:45      0.0051
SCS_24h_Type_II_1.7in            21:00      0.0051
SCS_24h_Type_II_1.7in            21:15      0.0051
SCS_24h_Type_II_1.7in            21:30      0.0051
SCS_24h_Type_II_1.7in            21:45      0.0051
SCS_24h_Type_II_1.7in            22:00      0.0051
SCS_24h_Type_II_1.7in            22:15      0.0051
SCS_24h_Type_II_1.7in            22:30      0.0051
SCS_24h_Type_II_1.7in            22:45      0.0051
SCS_24h_Type_II_1.7in            23:00      0.0051
SCS_24h_Type_II_1.7in            23:15      0.0051
SCS_24h_Type_II_1.7in            23:30      0.0051
SCS_24h_Type_II_1.7in            23:45      0.0051
SCS_24h_Type_II_1.7in            24:00      0

;SCS_24h_Type_II_2.4in design storm, total rainfall = 2.4 in, rain units = in.
SCS_24h_Type_II_2.4in            0:00       0.0066
SCS_24h_Type_II_2.4in            0:15       0.0066
SCS_24h_Type_II_2.4in            0:30       0.0066
SCS_24h_Type_II_2.4in            0:45       0.0066
SCS_24h_Type_II_2.4in            1:00       0.0066
SCS_24h_Type_II_2.4in            1:15       0.0066
SCS_24h_Type_II_2.4in            1:30       0.0066
SCS_24h_Type_II_2.4in            1:45       0.0066
SCS_24h_Type_II_2.4in            2:00       0.0078
SCS_24h_Type_II_2.4in            2:15       0.0078
SCS_24h_Type_II_2.4in            2:30       0.0078
SCS_24h_Type_II_2.4in            2:45       0.0078
SCS_24h_Type_II_2.4in            3:00       0.0078
SCS_24h_Type_II_2.4in            3:15       0.0078
SCS_24h_Type_II_2.4in            3:30       0.0078
SCS_24h_Type_II_2.4in            3:45       0.0078
SCS_24h_Type_II_2.4in            4:00       0.0096
SCS_24h_Type_II_2.4in            4:15       0.0096
SCS_24h_Type_II_2.4in            4:30       0.0096
SCS_24h_Type_II_2.4in            4:45       0.0096
SCS_24h_Type_II_2.4in            5:00       0.0096
SCS_24h_Type_II_2.4in            5:15       0.0096
SCS_24h_Type_II_2.4in            5:30       0.0096
SCS_24h_Type_II_2.4in            5:45       0.0096
```

```
SCS_24h_Type_II_2.4in           6:00      0.0108
SCS_24h_Type_II_2.4in           6:15      0.0108
SCS_24h_Type_II_2.4in           6:30      0.0108
SCS_24h_Type_II_2.4in           6:45      0.0108
SCS_24h_Type_II_2.4in           7:00      0.0132
SCS_24h_Type_II_2.4in           7:15      0.0132
SCS_24h_Type_II_2.4in           7:30      0.0132
SCS_24h_Type_II_2.4in           7:45      0.0132
SCS_24h_Type_II_2.4in           8:00      0.0156
SCS_24h_Type_II_2.4in           8:15      0.0156
SCS_24h_Type_II_2.4in           8:30      0.0168
SCS_24h_Type_II_2.4in           8:45      0.0168
SCS_24h_Type_II_2.4in           9:00      0.0192
SCS_24h_Type_II_2.4in           9:15      0.0192
SCS_24h_Type_II_2.4in           9:30      0.0216
SCS_24h_Type_II_2.4in           9:45      0.0216
SCS_24h_Type_II_2.4in           10:00     0.0276
SCS_24h_Type_II_2.4in           10:15     0.0276
SCS_24h_Type_II_2.4in           10:30     0.0372
SCS_24h_Type_II_2.4in           10:45     0.0372
SCS_24h_Type_II_2.4in           11:00     0.0576
SCS_24h_Type_II_2.4in           11:15     0.0576
SCS_24h_Type_II_2.4in           11:30     0.178
SCS_24h_Type_II_2.4in           11:45     0.734
SCS_24h_Type_II_2.4in           12:00     0.0864
SCS_24h_Type_II_2.4in           12:15     0.0864
SCS_24h_Type_II_2.4in           12:30     0.0444
SCS_24h_Type_II_2.4in           12:45     0.0444
SCS_24h_Type_II_2.4in           13:00     0.0324
SCS_24h_Type_II_2.4in           13:15     0.0324
SCS_24h_Type_II_2.4in           13:30     0.0252
SCS_24h_Type_II_2.4in           13:45     0.0252
SCS_24h_Type_II_2.4in           14:00     0.018
SCS_24h_Type_II_2.4in           14:15     0.018
SCS_24h_Type_II_2.4in           14:30     0.018
SCS_24h_Type_II_2.4in           14:45     0.018
SCS_24h_Type_II_2.4in           15:00     0.018
SCS_24h_Type_II_2.4in           15:15     0.018
SCS_24h_Type_II_2.4in           15:30     0.018
SCS_24h_Type_II_2.4in           15:45     0.018
SCS_24h_Type_II_2.4in           16:00     0.0108
SCS_24h_Type_II_2.4in           16:15     0.0108
SCS_24h_Type_II_2.4in           16:30     0.0108
SCS_24h_Type_II_2.4in           16:45     0.0108
SCS_24h_Type_II_2.4in           17:00     0.0108
SCS_24h_Type_II_2.4in           17:15     0.0108
SCS_24h_Type_II_2.4in           17:30     0.0108
SCS_24h_Type_II_2.4in           17:45     0.0108
SCS_24h_Type_II_2.4in           18:00     0.0108
SCS_24h_Type_II_2.4in           18:15     0.0108
SCS_24h_Type_II_2.4in           18:30     0.0108
SCS_24h_Type_II_2.4in           18:45     0.0108
SCS_24h_Type_II_2.4in           19:00     0.0108
SCS_24h_Type_II_2.4in           19:15     0.0108
SCS_24h_Type_II_2.4in           19:30     0.0108
SCS_24h_Type_II_2.4in           19:45     0.0108
SCS_24h_Type_II_2.4in           20:00     0.0072
SCS_24h_Type_II_2.4in           20:15     0.0072
SCS_24h_Type_II_2.4in           20:30     0.0072
SCS_24h_Type_II_2.4in           20:45     0.0072
SCS_24h_Type_II_2.4in           21:00     0.0072
SCS_24h_Type_II_2.4in           21:15     0.0072
SCS_24h_Type_II_2.4in           21:30     0.0072
SCS_24h_Type_II_2.4in           21:45     0.0072
SCS_24h_Type_II_2.4in           22:00     0.0072
SCS_24h_Type_II_2.4in           22:15     0.0072
SCS_24h_Type_II_2.4in           22:30     0.0072
SCS_24h_Type_II_2.4in           22:45     0.0072
SCS_24h_Type_II_2.4in           23:00     0.0072
SCS_24h_Type_II_2.4in           23:15     0.0072
SCS_24h_Type_II_2.4in           23:30     0.0072
SCS_24h_Type_II_2.4in           23:45     0.0072
SCS_24h_Type_II_2.4in           24:00     0
```

[REPORT]

```
INPUT      YES
CONTROLS   NO
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL
```

[TAGS]

[MAP]

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DIMENSIONS       2618588.71074308 1423116.24213885 2627939.34289151 1439876.06292265
UNITS            Feet
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[COORDINATES]

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;;Node           X-Coord          Y-Coord
;;-------------- ---------------- ----------------
J-CR21           2623354.367      1427524.303
J-CR05           2621645.554      1427398.97
J-CR08           2619831.421      1428002.354
J-CR16           2620852.45       1429626.42
J-CR15           2621464.141      1429004.658
J-CR20           2623324.688      1427789.925
J-CR24           2622810.63       1429636.455
J-CR27           2622784.856      1429874.479
J-CR28           2622711.107      1431029.384
J-CR29           2622581.806      1431028.431
J-CR31           2621083.208      1430238.665
J-CR30           2621102.427      1430561.573
J-CR33           2622637.165      1431864.121
J-CR25           2623886.138      1432058.075
J-CR34           2623887.448      1432137.972
J-CR36           2622511.999      1433108.771
J-CR22           2624158.431      1426045.092
J-CR18           2622990.635      1428926.557
J-CR26           2623857.665      1431750.026
J-CR35           2622324.923      1433112.65
J-CR32           2622378.245      1431967.043
J-CR13           2620093.477      1429231.174
J-CR14           2620835.041      1429024.599
J-CR09           2619764.433      1428400.783
J-CR10           2619264.849      1428590.127
J-CR03           2622715.092      1427057.224
J-CR04           2622725.074      1427882.745
J-CR07           2621424.098      1428077.898
J-CR23           2626051.528      1424970.934
J-CR01           2623196.791      1426532.659
J-CR02           2622432.468      1426537.433
J-CR11           2619457.497      1428759.598
J-CR06           2620844.852      1427849.167
J-CR37           2624911.345      1425262.969
J1               2622654.068      1431673.167
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J2              2622665.711     1428438.527
J3              2622169.53      1427836.58
J4              2625151.938     1425591.716
J5              2623823.701     1425780.526
J6              2620668.373     1428271.685
J7              2622695.357     1429800.342
J8              2623329.045     1432242.2
J9              2621624.809     1427380.568
J10             2620826.049     1427824.83
J11             2619827.796     1427987.962
J12             2619249.414     1428596.991
J-CR12          2619078.521     1428913.359
OF1             2619065.211     1428907.389
J-CR17          2622880.428     1428954.621
J-CR19          2623006.686     1428548.347

[VERTICES]
;;Link          X-Coord         Y-Coord
;;-------------- --------------- ---------------
C10             2623896.951     1431823.82
C16             2619297.129     1428655.009
C16             2619300.887     1428861.673
C16             2619180.646     1428880.46
C17             2619691.67      1428038.774
C17             2619409.855     1428298.043
C17             2619289.614     1428369.436
C18             2620743.778     1427779.504
C18             2620390.57      1427820.837
C18             2620150.088     1427933.563
C23             2620011.06      1429079.609
C23             2619184.403     1428944.338
C25             2621363.77      1427926.048
C26             2620800.937     1428318.868
C27             2620860.912     1429870.319
C27             2620793.661     1429634.939
C27             2620659.158     1429466.811
C27             2620423.778     1429339.033
C29             2622918.578     1428715.249
C29             2622856.554     1428576.888
C32             2622020.038     1427499.428
C34             2624563.521     1425378.033
C34             2624295.193     1425458.531
C34             2623908.033     1425692.36
C35             2623007.204     1426488.71
C35             2622805.955     1426356.461
C35             2622639.207     1426356.461
C36             2625749.933     1425246.719
C36             2625554.434     1425447.967
C36             2625307.186     1425580.216
C39             2623724.036     1425880.19
C39             2623624.371     1425910.857
C39             2623436.541     1426094.853
C39             2623298.544     1426351.682
C39             2623298.544     1426374.682
C39             2623298.544     1426416.848
C39             2623271.711     1426443.681
C41             2622804.91      1427788.519
C41             2622666.914     1427815.778
C42             2622472.697     1427149.648
C42             2622179.668     1427320.014
C42             2621900.268     1427396.678
C45             2623164.264     1432135.577
C45             2622994.635     1431907.79
C45             2622728.077     1431810.86
C31             2622805.666     1428355.031

[Polygons]
;;Subcatchment   X-Coord         Y-Coord
;;-------------- --------------- ---------------
CR13            2620843.436     1429695.584
CR13            2620825.307     1429615.02
CR13            2620800.568     1429223.037
CR13            2620798.589     1428985.558
CR13            2620779.808     1428986.291
CR13            2620595.75      1429006.023
CR13            2620389.587     1429058.106
CR13            2620120.49      1429160.103
CR13            2620046.705     1429196.995
CR13            2620100.959     1429296.822
CR13            2620133.511     1429357.586
CR13            2620116.15      1429442.221
CR13            2620053.216     1429596.301
CR13            2619905.646     1429628.853
CR13            2619786.446     1429650.375
CR13            2619688.155     1429879.721
CR13            2619813.155     1429955.242
CR13            2619919.926     1430017.742
CR13            2619852.217     1430134.929
CR13            2619820.372     1430189.664
CR13            2619909.627     1430235.672
CR13            2620010.415     1430271.116
CR13            2620764.426     1430246.949
CR13            2620926.345     1430254.199
CR13            2621001.263     1430237.282
CR13            2621110.015     1430227.616
CR13            2621075.071     1430161.833
CR13            2621028.143     1430038.43
CR13            2620875.193     1429767.291
CR13            2620843.436     1429695.584
CR36            2622350.284     1433093.791
CR36            2622302.406     1433274.971
CR36            2622209.958     1433483.305
CR36            2622122.718     1433626.534
CR36            2621956.051     1433837.471
CR36            2621716.468     1434120.023
CR36            2621655.27      1434204.659
CR36            2621595.374     1434351.794
CR36            2621568.031     1434652.575
CR36            2621527.666     1434797.107
CR36            2621409.176     1435004.138
CR36            2621267.249     1435148.669
CR36            2620928.011     1435433.119
CR36            2620823.888     1435767.179
CR36            2620667.544     1436486.362
CR36            2620558.103     1436869.405
CR36            2620714.447     1437080.47
CR36            2621285.103     1437635.491
CR36            2622168.447     1438088.889
CR36            2622567.125     1438206.147
CR36            2622965.802     1438151.427
CR36            2623450.469     1438221.782
CR36            2623606.813     1438135.793
CR36            2624044.577     1437979.449
CR36            2624583.964     1438034.169
CR36            2625131.168     1438049.803
CR36            2625412.588     1438323.406
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CR36	2626663.341	1438745.535
CR36	2627514.314	1439114.253
CR36	2627469.945	1438764.847
CR36	2627043.763	1437504.83
CR36	2626821.407	1437208.355
CR36	2626561.991	1436448.638
CR36	2626413.754	1435614.803
CR36	2626310.524	1435510.825
CR36	2625802.595	1435140.92
CR36	2625278.102	1434997.375
CR36	2624930.281	1434726.847
CR36	2624472.041	1434274.128
CR36	2623732.231	1433688.905
CR36	2623080.756	1433319
CR36	2622501.054	1433098.161
CR36	2622350.284	1433093.791
CR33	2622516.475	1431800.07
CR33	2622479.616	1432097.101
CR33	2622443.158	1432377.309
CR33	2622350.284	1433093.791
CR33	2622501.054	1433098.161
CR33	2623080.756	1433319
CR33	2623732.231	1433688.905
CR33	2624472.041	1434274.128
CR33	2624930.281	1434726.847
CR33	2625278.102	1434997.375
CR33	2625802.595	1435140.92
CR33	2626310.524	1435510.825
CR33	2626413.754	1435614.803
CR33	2626487.873	1435262.739
CR33	2626951.114	1434465.963
CR33	2626951.255	1434465.064
CR33	2626898.384	1434426.292
CR33	2626714.356	1433922.819
CR33	2626485.19	1433665.875
CR33	2626394.912	1433516.569
CR33	2626190.051	1433238.792
CR33	2626033.801	1433061.708
CR33	2625860.19	1432950.597
CR33	2625512.967	1432575.597
CR33	2625071.995	1432516.569
CR33	2624766.44	1432488.792
CR33	2624506.023	1432415.875
CR33	2624325.467	1432325.597
CR33	2624050.891	1432241.016
CR33	2623980.578	1432219.043
CR33	2623888.293	1432186.817
CR33	2623848.742	1432169.239
CR33	2623800.713	1432255.003
CR33	2623748.63	1432311.427
CR33	2623685.261	1432350.489
CR33	2623621.025	1432366.982
CR33	2623548.109	1432367.85
CR33	2623443.074	1432328.788
CR33	2623327.623	1432275.836
CR33	2623247.761	1432232.434
CR33	2623160.088	1432158.649
CR33	2623090.643	1432063.163
CR33	2622980.4	1431911.253
CR33	2622936.281	1431876.246
CR33	2622827.047	1431827.697
CR33	2622516.475	1431800.07
CR20	2624628.261	1427957.791
CR20	2624879.319	1428073.091
CR20	2624874.054	1427812.948
CR20	2624759.522	1427648.153
CR20	2624581.132	1427439.376
CR20	2624358.224	1427527.366
CR20	2624331.094	1427580.16
CR20	2624243.104	1427651.285
CR20	2624120.651	1427738.542
CR20	2623844.216	1427550.83
CR20	2623433.597	1427561.829
CR20	2623322.498	1427549.54
CR20	2623222.581	1427882.332
CR20	2623195.668	1428005.507
CR20	2623158.548	1428128.257
CR20	2623193.426	1428163.129
CR20	2624119.275	1428154.33
CR20	2624331.429	1428158.241
CR20	2624381.615	1428147.813
CR20	2624466.346	1428010.939
CR20	2624533.262	1427993.993
CR20	2624628.261	1427957.791
CR19	2622962.834	1428885.081
CR19	2623035.001	1428885.081
CR19	2623212.084	1428862.946
CR19	2623373.543	1428866.852
CR19	2623505.053	1428882.477
CR19	2623778.851	1429192.129
CR19	2624052.999	1428992.198
CR19	2624418.488	1428880.705
CR19	2624515.168	1428830.9
CR19	2624797.883	1428734.221
CR19	2626066.627	1429469.117
CR19	2625597.595	1428947.97
CR19	2625144.79	1428318.799
CR19	2625006.4	1428216.857
CR19	2624879.319	1428073.091
CR19	2624628.261	1427957.791
CR19	2624533.262	1427993.936
CR19	2624466.346	1428010.882
CR19	2624381.615	1428147.756
CR19	2624331.429	1428158.184
CR19	2624119.275	1428154.273
CR19	2623193.426	1428163.072
CR19	2623158.548	1428128.257
CR19	2623120.018	1428232.241
CR19	2623083.722	1428313.082
CR19	2622998.482	1428452.766
CR19	2622896.352	1428573.481
CR19	2622957.333	1428688.909
CR19	2622965.744	1428760.379
CR19	2622965.104	1428846.553
CR19	2622962.834	1428885.081
CR30	2620759.724	1430573.685
CR30	2620735.771	1430643.885
CR30	2620700.614	1430826.176
CR30	2620728.724	1431108.89
CR30	2620731.533	1431235.31
CR30	2620732.031	1431235.491
CR30	2620577.639	1431465.675
CR30	2620465.265	1431549.956
CR30	2620355.701	1431712.897
CR30	2620260.184	1431915.169
CR30	2620066.34	1432148.344

CR30	2619816.309	1432336.569
CR30	2619667.776	1432475.933
CR30	2619667.56	1432476.136
CR30	2620059.563	1432325.225
CR30	2620221.512	1432266.335
CR30	2620432.357	1432164.513
CR30	2620593.069	1432023.017
CR30	2620802.693	1431892.002
CR30	2621099.661	1431788.936
CR30	2621162.549	1431719.062
CR30	2621015.068	1431504.562
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[SYMBOLS]
;;Gage           X-Coord         Y-Coord
;;-------------- --------------- ---------------
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[TITLE]
Emerald Mountain/ Orton Meadows Basin - Future Conditions
UDFCD gauge 100 year 2 hr
Previously called 13th Street Basin   (TS)
C2 was rerouted from J-TS02 to J5 per Ben Beall


[OPTIONS]
FLOW_UNITS           CFS
INFILTRATION         HORTON
FLOW_ROUTING         KINWAVE
START_DATE           07/31/2012
START_TIME           00:00:00
REPORT_START_DATE    07/31/2012
REPORT_START_TIME    00:00:00
END_DATE             08/01/2012
END_TIME             00:00:00
SWEEP_START          01/01
SWEEP_END            12/31
DRY_DAYS             0
REPORT_STEP          0:05:00
WET_STEP             0:05:00
DRY_STEP             0:05:00
ROUTING_STEP         300
ALLOW_PONDING        NO
INERTIAL_DAMPING     PARTIAL
VARIABLE_STEP        0.75
LENGTHENING_STEP     0
MIN_SURFAREA         0
NORMAL_FLOW_LIMITED  BOTH
SKIP_STEADY_STATE    NO
FORCE_MAIN_EQUATION  H-W
LINK_OFFSETS         DEPTH
MIN_SLOPE            0

[EVAPORATION]
;;Type          Parameters
;;------------- ----------
CONSTANT     0.0
DRY_ONLY     NO

[RAINGAGES]
;;               Rain      Time   Snow   Data
;;Name           Type      Intrvl Catch  Source
;;-------------- --------- ------ ------ ----------
rg100            INTENSITY 0:15   1.0    TIMESERIES SCS_24h_Type_II_2.8in
UDFCD100         VOLUME    0:05   1.0    TIMESERIES UDFCD100

[SUBCATCHMENTS]
;;                                                Total    Pcnt.              Pcnt.    Curb
Snow
;;Name           Raingage         Outlet           Area     Imperv   Width    Slope    Length
Pack
;;-------------- ---------------- ---------------- -------- -------- -------- -------- --------
--------
TS07             UDFCD100         J-TS07           96.881   12.1     1460     11.1446  0
TS05             UDFCD100         J-TS05           201.48   15.9     1336     10.8884  0
TS06             UDFCD100         J-TS06           637.085  5.7      2248     13.7722  0
TS09             UDFCD100         J-TS09           50.8466  21.6     4395     11.3578  0
TS01             UDFCD100         J-TS01           34.7472  84.6     4070     0.810811 0
TS02             UDFCD100         J-TS02           6.1079   78.8     1331     1.57729  0
TS03             UDFCD100         J-TS03           47.0091  8.7      4119     10.4829  0
TS04             UDFCD100         J-TS04           70.5922  10.4     5667     10.8741  0
TS08             UDFCD100         J-TS08           63.982   14.4     9406     10.589   0
TS10             UDFCD100         J-TS10           8.41071  50.2     2531     0.758533 0
TS11             UDFCD100         J5               175.328  5.7      9250     6.7328   0

[SUBAREAS]
;;Subcatchment   N-Imperv   N-Perv     S-Imperv   S-Perv     PctZero    RouteTo    PctRouted
;;-------------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
TS07             0.02       0.2        0.1        0.35       10         OUTLET
TS05             0.02       0.2        0.1        0.35       10         OUTLET
TS06             0.02       0.2        0.1        0.35       10         OUTLET
TS09             0.02       0.2        0.1        0.35       10         OUTLET
TS01             0.02       0.2        0.1        0.35       10         OUTLET
TS02             0.02       0.2        0.1        0.35       10         OUTLET
TS03             0.02       0.2        0.1        0.35       10         OUTLET
TS04             0.02       0.2        0.1        0.35       10         OUTLET
TS08             0.02       0.2        0.1        0.35       10         OUTLET
TS10             0.02       0.2        0.1        0.35       10         OUTLET
TS11             0.02       0.2        0.1        0.35       10         OUTLET

[INFILTRATION]
;;Subcatchment   MaxRate    MinRate    Decay      DryTime    MaxInfil
;;-------------- ---------- ---------- ---------- ---------- ----------
TS07             3          0.5        6.48       7          0
TS05             3          0.5        6.48       7          0
TS06             3          0.5        6.48       7          0
TS09             3          0.5        6.48       7          0
TS01             3          0.5        6.48       7          0
TS02             3          0.5        6.48       7          0
TS03             3          0.5        6.48       7          0
TS04             3          0.5        6.48       7          0
TS08             3          0.5        6.48       7          0
TS10             3          0.5        6.48       7          0
TS11             3          0.5        6.48       7          0

[JUNCTIONS]
;;               Invert     Max.       Init.      Surcharge  Ponded
;;Name           Elev.      Depth      Depth      Depth      Area
;;-------------- ---------- ---------- ---------- ---------- ----------
J-TS07           6706       0          0          0          0
J-TS09           6718       0          0          0          0
J-TS04           6667       0          0          0          0
J-TS02           6693       0          0          0          0
J-TS08           6702       0          0          0          0
J-TS06           6692       0          0          0          0
J-TS05           6674       0          0          0          0
J1               6670       0          0          0          0
J2               6678       0          0          0          0
J3               6686       0          0          0          0
J4               6665.675   0          0          0          0
J5               6686       0          0          0          0
J-TS01           6662       0          0          0          0
J-TS10           6714       0          0          0          0
1                6686       0          0          0          0

[OUTFALLS]
;;               Invert     Outfall    Stage/Table      Tide
;;Name           Elev.      Type       Time Series      Gate
;;-------------- ---------- ---------- ---------------- ----
J6               6658       FREE                         NO

[DIVIDERS]
;;               Invert     Diverted         Divider
;;Name           Elev.      Link             Type       Parameters
```

```
;;-------------- ---------- ---------------- ---------- ----------
J-TS03           6666       C12              CUTOFF     22         0          0          0
0
```

[CONDUITS]

```
;;               Inlet            Outlet                      Manning    Inlet      Outlet
Init.      Max.
;;Name            Node             Node             Length     N          Offset     Offset
Flow       Flow
;;-------------- ---------------- ---------------- ---------- ---------- ---------- ----------
---------- ----------
C1               J-TS09           J-TS10           166.87     0.01       0          0
0          0
C2               J-TS08           J5               217.17     0.01       0          0
0          0
C3               J-TS07           J-TS06           727.68     0.01       0          0
0          0
C4               J-TS06           J-TS05           1297.31    0.01       0          0
0          0
C5               J-TS05           J-TS04           966.65     0.01       0          0
0          0
C6               J-TS04           J-TS03           510.91     0.01       0          0
0          0
C7               J-TS03           J4               65         0.024      0          0
0          0
C8               J-TS02           J3               875.23     0.01       0          0
0          0
C9               J3               J2               942.18     0.01       0          0
0          0
C10              J2               J1               990.29     0.01       0          0
0          0
C11              J1               J-TS01           927.15     0.01       0          0
0          0
C12              J-TS03           J4               65         0.01       0          0
0          0
C13              J4               J-TS01           388.37     0.01       0          0
0          0
C14              J-TS01           J6               125.2      0.01       0          0
0          0
C15              1                J6               4829.61    0.01       0          0
0          0
C16              J-TS10           1                4991.91    0.01       0          0
0          0
1                J5               1                39.5       0.01       0          0
0          0
```

[XSECTIONS]

```
;;Link           Shape        Geom1            Geom2      Geom3      Geom4      Barrels
;;-------------- ------------ ---------------- ---------- ---------- ---------- ----------
C1               IRREGULAR    channel-main1st  0          0          0          1
C2               IRREGULAR    channel-main1st  0          0          0          1
C3               IRREGULAR    channel-main1st  0          0          0          1
C4               IRREGULAR    channel-main1st  0          0          0          1
C5               IRREGULAR    channel-main1st  0          0          0          1
C6               IRREGULAR    channel-main1st  0          0          0          1
C7               HORIZ_ELLIPSE 2.5              3.25       0          0          1
C8               IRREGULAR    channel-overflow1s 0        0          0          1
C9               IRREGULAR    channel-overflow1s 0        0          0          1
C10              IRREGULAR    channel-overflow1s 0        0          0          1
C11              IRREGULAR    channel-overflow1s 0        0          0          1
C12              IRREGULAR    street-main      0          0          0          1
C13              IRREGULAR    channel-main1st  0          0          0          1
C14              DUMMY        0                0          0          0          1
C15              IRREGULAR    largeriver       0          0          0          1
C16              IRREGULAR    largeriver       0          0          0          1
1                DUMMY        0                0          0          0          1
```

[TRANSECTS]

```
NC 0.0625   0.0625   0.0375
X1 channel-main1st  8        4        8        0.0       0.0       0.0       0.0       0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        8
GR 0.5      8        1.5      12       5.5      28

NC 0.0625   0.0625   0.0375
X1 channel-main2nd  8        4        12       0.0       0.0       0.0       0.0       0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        12
GR 0.5      12       1.5      16       5.5      32

NC 0.0625   0.0625   0.0375
X1 channel-main3rd  8        4        16       0.0       0.0       0.0       0.0       0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        16
GR 0.5      16       1.5      20       5.5      36

NC 0.0625   0.0625   0.0375
X1 channel-overflow1s 8        20       28       0.0       0.0       0.0       0.0       0.0
GR 6        -80      2        0        1        20       0        20       0        28
GR 1        28       2        48       6        128

NC 0.0625   0.0625   0.0375
X1 channel-overflow2n 8        20       35       0.0       0.0       0.0       0.0       0.0
GR 6        -80      2        0        1        20       0        20       0        35
GR 1        35       2        55       6        135

NC 0.0625   0.0625   0.0375
X1 channel-overflow3r 8        20       50       0.0       0.0       0.0       0.0       0.0
GR 6        -80      2        0        1        20       0        20       0        60
GR 1        60       2        80       6        160

NC 0.0625   0.0625   0.01875
X1 street-main      9        6        30.5     0.0       0.0       0.0       0.0       0.0
GR 7        -18      1        0        0        3        1        6        1.25     18.5
GR 1        30.5     0        33.5     1        36.5     7        54.5

NC 0.0625   0.0625   0.01875
X1 street-overflow  11       13       53       0.0       0.0       0.0       0.0       0.0
GR 3        -20      2        0        0        6        0        7        2        13
GR 2.4      33       2        53       0        59       0        60       2        66
GR 3        86

NC 0.0625   0.0625   0.035
X1 largeriver       12       21       41       0.0       0.0       0.0       0.0       0.0
GR 10       -45      7        -45      5        -5       4        15       2        21
GR 0        21       0        41       2        41       4        47       5        67
GR 7        107      10       107

NC 0.122    0.122    0.073
X1 channel-main1a   8        4        8        0.0       0.0       0.0       0.0       0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        8
GR 0.5      8        1.5      12       5.5      28

NC 0.122    0.122    0.073
X1 channel-overflow1a 8        20       28       0.0       0.0       0.0       0.0       0.0
GR 6        -80      2        0        1        20       0        20       0        28
GR 1        28       2        48       6        128
```

```
NC 0.122    0.122    0.073
X1 Channel-overflow2a 8        20       35       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        35
GR 1        35       2        55       6        135

[LOSSES]
;;Link           Inlet      Outlet     Average    Flap Gate
;;-------------- ---------- ---------- ---------- ----------

[TIMESERIES]
;;Name           Date       Time       Value
;;-------------- ---------- ---------- ----------
;SCS_24h_Type_II_2.8in design storm, total rainfall = 2.8 in, rain units = in/hr.
SCS_24h_Type_II_2.8in            0:00       0
SCS_24h_Type_II_2.8in            0:15       0.03696
SCS_24h_Type_II_2.8in            0:30       0.03696
SCS_24h_Type_II_2.8in            0:45       0.03808
SCS_24h_Type_II_2.8in            1:00       0.03696
SCS_24h_Type_II_2.8in            1:15       0.03696
SCS_24h_Type_II_2.8in            1:30       0.03808
SCS_24h_Type_II_2.8in            1:45       0.03696
SCS_24h_Type_II_2.8in            2:00       0.03696
SCS_24h_Type_II_2.8in            2:15       0.03808
SCS_24h_Type_II_2.8in            2:30       0.03696
SCS_24h_Type_II_2.8in            2:45       0.03696
SCS_24h_Type_II_2.8in            3:00       0.03808
SCS_24h_Type_II_2.8in            3:15       0.03696
SCS_24h_Type_II_2.8in            3:30       0.03696
SCS_24h_Type_II_2.8in            3:45       0.03808
SCS_24h_Type_II_2.8in            4:00       0.03696
SCS_24h_Type_II_2.8in            4:15       0.03696
SCS_24h_Type_II_2.8in            4:30       0.03808
SCS_24h_Type_II_2.8in            4:45       0.03696
SCS_24h_Type_II_2.8in            5:00       0.03696
SCS_24h_Type_II_2.8in            5:15       0.03808
SCS_24h_Type_II_2.8in            5:30       0.03696
SCS_24h_Type_II_2.8in            5:45       0.03696
SCS_24h_Type_II_2.8in            6:00       0.03808
SCS_24h_Type_II_2.8in            6:15       0.03696
SCS_24h_Type_II_2.8in            6:30       0.03696
SCS_24h_Type_II_2.8in            6:45       0.03808
SCS_24h_Type_II_2.8in            7:00       0.03696
SCS_24h_Type_II_2.8in            7:15       0.03696
SCS_24h_Type_II_2.8in            7:30       0.03808
SCS_24h_Type_II_2.8in            7:45       0.07392
SCS_24h_Type_II_2.8in            8:00       0.07504
SCS_24h_Type_II_2.8in            8:15       0.07504
SCS_24h_Type_II_2.8in            8:30       0.07392
SCS_24h_Type_II_2.8in            8:45       0.07504
SCS_24h_Type_II_2.8in            9:00       0.07504
SCS_24h_Type_II_2.8in            9:15       0.112
SCS_24h_Type_II_2.8in            9:30       0.112
SCS_24h_Type_II_2.8in            9:45       0.112
SCS_24h_Type_II_2.8in            10:00      0.112
SCS_24h_Type_II_2.8in            10:15      0.112
SCS_24h_Type_II_2.8in            10:30      0.112
SCS_24h_Type_II_2.8in            10:45      0.224
SCS_24h_Type_II_2.8in            11:00      0.224
SCS_24h_Type_II_2.8in            11:15      0.336
SCS_24h_Type_II_2.8in            11:30      0.56
SCS_24h_Type_II_2.8in            11:45      0.672
SCS_24h_Type_II_2.8in            12:00      1.344
SCS_24h_Type_II_2.8in            12:15      1.344
SCS_24h_Type_II_2.8in            12:30      0.672
SCS_24h_Type_II_2.8in            12:45      0.56
SCS_24h_Type_II_2.8in            13:00      0.336
SCS_24h_Type_II_2.8in            13:15      0.224
SCS_24h_Type_II_2.8in            13:30      0.224
SCS_24h_Type_II_2.8in            13:45      0.112
SCS_24h_Type_II_2.8in            14:00      0.112
SCS_24h_Type_II_2.8in            14:15      0.112
SCS_24h_Type_II_2.8in            14:30      0.112
SCS_24h_Type_II_2.8in            14:45      0.112
SCS_24h_Type_II_2.8in            15:00      0.112
SCS_24h_Type_II_2.8in            15:15      0.07392
SCS_24h_Type_II_2.8in            15:30      0.07504
SCS_24h_Type_II_2.8in            15:45      0.07504
SCS_24h_Type_II_2.8in            16:00      0.07392
SCS_24h_Type_II_2.8in            16:15      0.07504
SCS_24h_Type_II_2.8in            16:30      0.07504
SCS_24h_Type_II_2.8in            16:45      0.03696
SCS_24h_Type_II_2.8in            17:00      0.03696
SCS_24h_Type_II_2.8in            17:15      0.03808
SCS_24h_Type_II_2.8in            17:30      0.03696
SCS_24h_Type_II_2.8in            17:45      0.03696
SCS_24h_Type_II_2.8in            18:00      0.03808
SCS_24h_Type_II_2.8in            18:15      0.03696
SCS_24h_Type_II_2.8in            18:30      0.03696
SCS_24h_Type_II_2.8in            18:45      0.03808
SCS_24h_Type_II_2.8in            19:00      0.03696
SCS_24h_Type_II_2.8in            19:15      0.03696
SCS_24h_Type_II_2.8in            19:30      0.03808
SCS_24h_Type_II_2.8in            19:45      0.03696
SCS_24h_Type_II_2.8in            20:00      0.03696
SCS_24h_Type_II_2.8in            20:15      0.03808
SCS_24h_Type_II_2.8in            20:30      0.03696
SCS_24h_Type_II_2.8in            20:45      0.03696
SCS_24h_Type_II_2.8in            21:00      0.03808
SCS_24h_Type_II_2.8in            21:15      0.03696
SCS_24h_Type_II_2.8in            21:30      0.03696
SCS_24h_Type_II_2.8in            21:45      0.03808
SCS_24h_Type_II_2.8in            22:00      0.03696
SCS_24h_Type_II_2.8in            22:15      0.03696
SCS_24h_Type_II_2.8in            22:30      0.03808
SCS_24h_Type_II_2.8in            22:45      0.03696
SCS_24h_Type_II_2.8in            23:00      0.03696
SCS_24h_Type_II_2.8in            23:15      0.03808
SCS_24h_Type_II_2.8in            23:30      0.03696
SCS_24h_Type_II_2.8in            23:45      0.03696
SCS_24h_Type_II_2.8in            24:00      0.03808

UDFCD100                    0:05       0.0146
UDFCD100                    0:10       0.0438
UDFCD100                    0:15       0.06716
UDFCD100                    0:20       0.1168
UDFCD100                    0:25       0.2044
UDFCD100                    0:30       0.365
UDFCD100                    0:35       0.2044
UDFCD100                    0:40       0.1168
UDFCD100                    0:45       0.09052
UDFCD100                    0:50       0.073
UDFCD100                    0:55       0.0584
UDFCD100                    1:00       0.0584
UDFCD100                    1:05       0.0584
UDFCD100                    1:10       0.0292
UDFCD100                    1:15       0.0292
```

```
UDFCD100                    1:20       0.01752
UDFCD100                    1:25       0.01752
UDFCD100                    1:30       0.01752
UDFCD100                    1:35       0.01752
UDFCD100                    1:40       0.01752
UDFCD100                    1:45       0.01752
UDFCD100                    1:50       0.01752
UDFCD100                    1:55       0.01752
UDFCD100                    2:00       0.01752
UDFCD100                    2:05       0

;SCS_24h_Type_II_1.7in design storm, total rainfall = 1.7 in, rain units = in.
SCS_24h_Type_II_1.7in            0:00       0.00468
SCS_24h_Type_II_1.7in            0:15       0.00468
SCS_24h_Type_II_1.7in            0:30       0.00468
SCS_24h_Type_II_1.7in            0:45       0.00468
SCS_24h_Type_II_1.7in            1:00       0.00468
SCS_24h_Type_II_1.7in            1:15       0.00468
SCS_24h_Type_II_1.7in            1:30       0.00468
SCS_24h_Type_II_1.7in            1:45       0.00468
SCS_24h_Type_II_1.7in            2:00       0.00552
SCS_24h_Type_II_1.7in            2:15       0.00552
SCS_24h_Type_II_1.7in            2:30       0.00552
SCS_24h_Type_II_1.7in            2:45       0.00552
SCS_24h_Type_II_1.7in            3:00       0.00552
SCS_24h_Type_II_1.7in            3:15       0.00552
SCS_24h_Type_II_1.7in            3:30       0.00552
SCS_24h_Type_II_1.7in            3:45       0.00552
SCS_24h_Type_II_1.7in            4:00       0.0068
SCS_24h_Type_II_1.7in            4:15       0.0068
SCS_24h_Type_II_1.7in            4:30       0.0068
SCS_24h_Type_II_1.7in            4:45       0.0068
SCS_24h_Type_II_1.7in            5:00       0.0068
SCS_24h_Type_II_1.7in            5:15       0.0068
SCS_24h_Type_II_1.7in            5:30       0.0068
SCS_24h_Type_II_1.7in            5:45       0.0068
SCS_24h_Type_II_1.7in            6:00       0.00765
SCS_24h_Type_II_1.7in            6:15       0.00765
SCS_24h_Type_II_1.7in            6:30       0.00765
SCS_24h_Type_II_1.7in            6:45       0.00765
SCS_24h_Type_II_1.7in            7:00       0.00935
SCS_24h_Type_II_1.7in            7:15       0.00935
SCS_24h_Type_II_1.7in            7:30       0.00935
SCS_24h_Type_II_1.7in            7:45       0.00935
SCS_24h_Type_II_1.7in            8:00       0.0111
SCS_24h_Type_II_1.7in            8:15       0.0111
SCS_24h_Type_II_1.7in            8:30       0.0119
SCS_24h_Type_II_1.7in            8:45       0.0119
SCS_24h_Type_II_1.7in            9:00       0.0136
SCS_24h_Type_II_1.7in            9:15       0.0136
SCS_24h_Type_II_1.7in            9:30       0.0153
SCS_24h_Type_II_1.7in            9:45       0.0153
SCS_24h_Type_II_1.7in            10:00      0.0196
SCS_24h_Type_II_1.7in            10:15      0.0196
SCS_24h_Type_II_1.7in            10:30      0.0264
SCS_24h_Type_II_1.7in            10:45      0.0264
SCS_24h_Type_II_1.7in            11:00      0.0408
SCS_24h_Type_II_1.7in            11:15      0.0408
SCS_24h_Type_II_1.7in            11:30      0.126
SCS_24h_Type_II_1.7in            11:45      0.52
SCS_24h_Type_II_1.7in            12:00      0.0612
SCS_24h_Type_II_1.7in            12:15      0.0612
SCS_24h_Type_II_1.7in            12:30      0.0314
SCS_24h_Type_II_1.7in            12:45      0.0314
SCS_24h_Type_II_1.7in            13:00      0.023
SCS_24h_Type_II_1.7in            13:15      0.023
SCS_24h_Type_II_1.7in            13:30      0.0178
SCS_24h_Type_II_1.7in            13:45      0.0178
SCS_24h_Type_II_1.7in            14:00      0.0127
SCS_24h_Type_II_1.7in            14:15      0.0127
SCS_24h_Type_II_1.7in            14:30      0.0127
SCS_24h_Type_II_1.7in            14:45      0.0127
SCS_24h_Type_II_1.7in            15:00      0.0127
SCS_24h_Type_II_1.7in            15:15      0.0127
SCS_24h_Type_II_1.7in            15:30      0.0127
SCS_24h_Type_II_1.7in            15:45      0.0127
SCS_24h_Type_II_1.7in            16:00      0.00765
SCS_24h_Type_II_1.7in            16:15      0.00765
SCS_24h_Type_II_1.7in            16:30      0.00765
SCS_24h_Type_II_1.7in            16:45      0.00765
SCS_24h_Type_II_1.7in            17:00      0.00765
SCS_24h_Type_II_1.7in            17:15      0.00765
SCS_24h_Type_II_1.7in            17:30      0.00765
SCS_24h_Type_II_1.7in            17:45      0.00765
SCS_24h_Type_II_1.7in            18:00      0.00765
SCS_24h_Type_II_1.7in            18:15      0.00765
SCS_24h_Type_II_1.7in            18:30      0.00765
SCS_24h_Type_II_1.7in            18:45      0.00765
SCS_24h_Type_II_1.7in            19:00      0.00765
SCS_24h_Type_II_1.7in            19:15      0.00765
SCS_24h_Type_II_1.7in            19:30      0.00765
SCS_24h_Type_II_1.7in            19:45      0.00765
SCS_24h_Type_II_1.7in            20:00      0.0051
SCS_24h_Type_II_1.7in            20:15      0.0051
SCS_24h_Type_II_1.7in            20:30      0.0051
SCS_24h_Type_II_1.7in            20:45      0.0051
SCS_24h_Type_II_1.7in            21:00      0.0051
SCS_24h_Type_II_1.7in            21:15      0.0051
SCS_24h_Type_II_1.7in            21:30      0.0051
SCS_24h_Type_II_1.7in            21:45      0.0051
SCS_24h_Type_II_1.7in            22:00      0.0051
SCS_24h_Type_II_1.7in            22:15      0.0051
SCS_24h_Type_II_1.7in            22:30      0.0051
SCS_24h_Type_II_1.7in            22:45      0.0051
SCS_24h_Type_II_1.7in            23:00      0.0051
SCS_24h_Type_II_1.7in            23:15      0.0051
SCS_24h_Type_II_1.7in            23:30      0.0051
SCS_24h_Type_II_1.7in            23:45      0.0051
SCS_24h_Type_II_1.7in            24:00      0

;SCS_24h_Type_II_2.4in design storm, total rainfall = 2.4 in, rain units = in.
SCS_24h_Type_II_2.4in            0:00       0.0066
SCS_24h_Type_II_2.4in            0:15       0.0066
SCS_24h_Type_II_2.4in            0:30       0.0066
SCS_24h_Type_II_2.4in            0:45       0.0066
SCS_24h_Type_II_2.4in            1:00       0.0066
SCS_24h_Type_II_2.4in            1:15       0.0066
SCS_24h_Type_II_2.4in            1:30       0.0066
SCS_24h_Type_II_2.4in            1:45       0.0066
SCS_24h_Type_II_2.4in            2:00       0.0078
SCS_24h_Type_II_2.4in            2:15       0.0078
SCS_24h_Type_II_2.4in            2:30       0.0078
SCS_24h_Type_II_2.4in            2:45       0.0078
SCS_24h_Type_II_2.4in            3:00       0.0078
SCS_24h_Type_II_2.4in            3:15       0.0078
SCS_24h_Type_II_2.4in            3:30       0.0078
```

```
SCS_24h_Type_II_2.4in          3:45      0.0078
SCS_24h_Type_II_2.4in          4:00      0.0096
SCS_24h_Type_II_2.4in          4:15      0.0096
SCS_24h_Type_II_2.4in          4:30      0.0096
SCS_24h_Type_II_2.4in          4:45      0.0096
SCS_24h_Type_II_2.4in          5:00      0.0096
SCS_24h_Type_II_2.4in          5:15      0.0096
SCS_24h_Type_II_2.4in          5:30      0.0096
SCS_24h_Type_II_2.4in          5:45      0.0096
SCS_24h_Type_II_2.4in          6:00      0.0108
SCS_24h_Type_II_2.4in          6:15      0.0108
SCS_24h_Type_II_2.4in          6:30      0.0108
SCS_24h_Type_II_2.4in          6:45      0.0108
SCS_24h_Type_II_2.4in          7:00      0.0132
SCS_24h_Type_II_2.4in          7:15      0.0132
SCS_24h_Type_II_2.4in          7:30      0.0132
SCS_24h_Type_II_2.4in          7:45      0.0132
SCS_24h_Type_II_2.4in          8:00      0.0156
SCS_24h_Type_II_2.4in          8:15      0.0156
SCS_24h_Type_II_2.4in          8:30      0.0168
SCS_24h_Type_II_2.4in          8:45      0.0168
SCS_24h_Type_II_2.4in          9:00      0.0192
SCS_24h_Type_II_2.4in          9:15      0.0192
SCS_24h_Type_II_2.4in          9:30      0.0216
SCS_24h_Type_II_2.4in          9:45      0.0216
SCS_24h_Type_II_2.4in          10:00     0.0276
SCS_24h_Type_II_2.4in          10:15     0.0276
SCS_24h_Type_II_2.4in          10:30     0.0372
SCS_24h_Type_II_2.4in          10:45     0.0372
SCS_24h_Type_II_2.4in          11:00     0.0576
SCS_24h_Type_II_2.4in          11:15     0.0576
SCS_24h_Type_II_2.4in          11:30     0.178
SCS_24h_Type_II_2.4in          11:45     0.734
SCS_24h_Type_II_2.4in          12:00     0.0864
SCS_24h_Type_II_2.4in          12:15     0.0864
SCS_24h_Type_II_2.4in          12:30     0.0444
SCS_24h_Type_II_2.4in          12:45     0.0444
SCS_24h_Type_II_2.4in          13:00     0.0324
SCS_24h_Type_II_2.4in          13:15     0.0324
SCS_24h_Type_II_2.4in          13:30     0.0252
SCS_24h_Type_II_2.4in          13:45     0.0252
SCS_24h_Type_II_2.4in          14:00     0.018
SCS_24h_Type_II_2.4in          14:15     0.018
SCS_24h_Type_II_2.4in          14:30     0.018
SCS_24h_Type_II_2.4in          14:45     0.018
SCS_24h_Type_II_2.4in          15:00     0.018
SCS_24h_Type_II_2.4in          15:15     0.018
SCS_24h_Type_II_2.4in          15:30     0.018
SCS_24h_Type_II_2.4in          15:45     0.018
SCS_24h_Type_II_2.4in          16:00     0.0108
SCS_24h_Type_II_2.4in          16:15     0.0108
SCS_24h_Type_II_2.4in          16:30     0.0108
SCS_24h_Type_II_2.4in          16:45     0.0108
SCS_24h_Type_II_2.4in          17:00     0.0108
SCS_24h_Type_II_2.4in          17:15     0.0108
SCS_24h_Type_II_2.4in          17:30     0.0108
SCS_24h_Type_II_2.4in          17:45     0.0108
SCS_24h_Type_II_2.4in          18:00     0.0108
SCS_24h_Type_II_2.4in          18:15     0.0108
SCS_24h_Type_II_2.4in          18:30     0.0108
SCS_24h_Type_II_2.4in          18:45     0.0108
SCS_24h_Type_II_2.4in          19:00     0.0108
SCS_24h_Type_II_2.4in          19:15     0.0108
SCS_24h_Type_II_2.4in          19:30     0.0108
SCS_24h_Type_II_2.4in          19:45     0.0108
SCS_24h_Type_II_2.4in          20:00     0.0072
SCS_24h_Type_II_2.4in          20:15     0.0072
SCS_24h_Type_II_2.4in          20:30     0.0072
SCS_24h_Type_II_2.4in          20:45     0.0072
SCS_24h_Type_II_2.4in          21:00     0.0072
SCS_24h_Type_II_2.4in          21:15     0.0072
SCS_24h_Type_II_2.4in          21:30     0.0072
SCS_24h_Type_II_2.4in          21:45     0.0072
SCS_24h_Type_II_2.4in          22:00     0.0072
SCS_24h_Type_II_2.4in          22:15     0.0072
SCS_24h_Type_II_2.4in          22:30     0.0072
SCS_24h_Type_II_2.4in          22:45     0.0072
SCS_24h_Type_II_2.4in          23:00     0.0072
SCS_24h_Type_II_2.4in          23:15     0.0072
SCS_24h_Type_II_2.4in          23:30     0.0072
SCS_24h_Type_II_2.4in          23:45     0.0072
SCS_24h_Type_II_2.4in          24:00     0


[REPORT]
INPUT      YES
CONTROLS   NO
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]

[MAP]
DIMENSIONS       2620608.62138386 1413146.38561079 2630989.12541219 1427060.10978429
UNITS            Feet

[COORDINATES]
;;Node           X-Coord          Y-Coord
;;-------------- ---------------- ----------------
J-TS07           2625795.803      1423877.574
J-TS09           2630146.158      1420331.214
J-TS04           2623246.519      1425410.474
J-TS02           2625897.332      1424239.009
J-TS08           2626666.771      1423683.229
J-TS06           2625152.515      1424217.577
J-TS05           2623989.64       1424792.405
J1               2623486.664      1425677.605
J2               2624331.225      1425160.674
J3               2625139.384      1424676.507
J4               2622801.077      1425778.112
J5               2626848.129      1423802.664
J-TS01           2622688.926      1426149.899
J-TS10           2630295.644      1420405.331
1                2626868          1423836.799
J6               2622699.335      1426274.656
J-TS03           2622806.478      1425669.992

[VERTICES]
;;Link           X-Coord          Y-Coord
;;-------------- ---------------- ----------------
C7               2622761.169      1425708.003
C16              2630336.168      1420657.984
C16              2630110.555      1421084.143

[Polygons]
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;;Subcatchment   X-Coord          Y-Coord
;;-------------- ---------------- ----------------
TS07             2626650.613      1418753.94
TS07             2625628.153      1416930.587
TS07             2625596.805      1417249.288
TS07             2625617.704      1417620.236
TS07             2625633.378      1417839.669
TS07             2625628.153      1418095.675
TS07             2625622.928      1418362.131
TS07             2625638.602      1418675.607
TS07             2625722.196      1418978.635
TS07             2625784.891      1419292.111
TS07             2625863.26       1419715.305
TS07             2625848.748      1420119.438
TS07             2625885.9        1420540.503
TS07             2625848.748      1421060.642
TS07             2625519.307      1421867.095
TS07             2625490.408      1422153.755
TS07             2625505.837      1422319.065
TS07             2625527.879      1422482.17
TS07             2625527.879      1422678.338
TS07             2625549.92       1422894.343
TS07             2625545.512      1423121.369
TS07             2625552.124      1423317.537
TS07             2625560.941      1423496.071
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TS07             2625664.535      1423866.366
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TS07             2626141.898      1423740.159
TS07             2626062.262      1423606.413
TS07             2626050.326      1423570.606
TS07             2626041.646      1423390.484
TS07             2626037.306      1423132.238
TS07             2626094.814      1423047.602
TS07             2626106.75       1422834.929
TS07             2626159.919      1422650.467
TS07             2626228.278      1422418.262
TS07             2626245.639      1422182.802
TS07             2626257.575      1422050.423
TS07             2626234.788      1421804.113
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TS05             2623853.659      1424910.114
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TS05             2624311.551      1424819.75
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TS04	2622923.047	1425271.045
TS04	2622914.314	1425349.622
TS04	2622908.889	1425419.066
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TS08	2626354.688	1423728.744
TS08	2626486.633	1423695.758
TS08	2626613.369	1423695.758
TS08	2626676.115	1423715.627
TS08	2626874.478	1423399.853
TS08	2626890.526	1423315.219
TS08	2626901.984	1423168.344
TS08	2626893.998	1423016.261
TS08	2626906.151	1422976.677
TS08	2626776.637	1422731.538
TS08	2626714.831	1422484.316
TS08	2626732.887	1422002.719
TS08	2626974.147	1421248.168
TS08	2626973.164	1421078.413
TS08	2627031.498	1420972.163
TS08	2627080.109	1420817.997
TS08	2627100.248	1420536.747
TS08	2626998.677	1419374.642
TS10	2630048.918	1419001.275
TS10	2630121.693	1419118.456
TS10	2630134.714	1419194.41
TS10	2630145.565	1419580.695
TS10	2630169.436	1420153.612
TS10	2630170.327	1420386.011
TS10	2630308.951	1420423.172
TS10	2630312.336	1420298.12
TS10	2630392.284	1420023.432
TS10	2630438.482	1419908.224
TS10	2630484.489	1419663.432
TS10	2630515.739	1419475.064
TS10	2630517.284	1419263.016
TS10	2630443.066	1419153.641
TS10	2630314.159	1419057.287
TS10	2630278.135	1419059.457
TS10	2630152.267	1419055.116
TS10	2630098.013	1418996.523
TS10	2630048.918	1419001.275
TS11	2626804.404	1423786.25
TS11	2626839.126	1423820.972
TS11	2626964.126	1423702.917
TS11	2627109.959	1423473.75
TS11	2627214.126	1423320.972
TS11	2627359.959	1423209.861
TS11	2627484.959	1423084.861
TS11	2627623.848	1422952.917
TS11	2627839.126	1422744.584
TS11	2628096.07	1422487.639
TS11	2628373.848	1422265.417
TS11	2628547.459	1422147.361
TS11	2628783.57	1421925.139
TS11	2629116.904	1421758.472
TS11	2629373.848	1421612.639
TS11	2629616.904	1421376.528
TS11	2629811.348	1421195.972
TS11	2630026.626	1421084.861
TS11	2630137.737	1420973.75
TS11	2630221.07	1420793.195
TS11	2630346.07	1420591.806
TS11	2630339.126	1420466.806
TS11	2630308.951	1420423.172
TS11	2630170.327	1420386.011
TS11	2630145.284	1420372.648
TS11	2629502.486	1420401.785
TS11	2629411.557	1420388.33
TS11	2629324.572	1420384.428
TS11	2629061.552	1420377.483
TS11	2628901.366	1420287.842
TS11	2628494.422	1419976.731
TS11	2628129.139	1419688.635
TS11	2627900.486	1419190.288
TS11	2626998.677	1419374.642
TS11	2627100.248	1420536.747
TS11	2627080.109	1420817.997
TS11	2627031.498	1420972.163
TS11	2626973.164	1421078.413
TS11	2626974.147	1421248.168
TS11	2626732.887	1422002.719
TS11	2626714.831	1422484.316
TS11	2626776.637	1422731.538
TS11	2626906.151	1422976.677
TS11	2626893.998	1423016.261
TS11	2626901.984	1423168.344
TS11	2626890.526	1423315.219
TS11	2626874.478	1423399.853
TS11	2626676.115	1423715.627
TS11	2626732.835	1423753.983
TS11	2626804.404	1423786.25

[SYMBOLS]

;;Gage	X-Coord	Y-Coord

```
[TITLE]
Fish Creek Basin - Future Conditions
UDFCD gauge 100 year 2 hr


[OPTIONS]
FLOW_UNITS           CFS
INFILTRATION         HORTON
FLOW_ROUTING         KINWAVE
START_DATE           07/24/2012
START_TIME           00:00:00
REPORT_START_DATE    07/24/2012
REPORT_START_TIME    00:00:00
END_DATE             07/25/2012
END_TIME             00:00:00
SWEEP_START          01/01
SWEEP_END            12/31
DRY_DAYS             0
REPORT_STEP          0:05:00
WET_STEP             0:05:00
DRY_STEP             0:05:00
ROUTING_STEP         300
ALLOW_PONDING        NO
INERTIAL_DAMPING     PARTIAL
VARIABLE_STEP        0.75
LENGTHENING_STEP     0
MIN_SURFAREA         0
NORMAL_FLOW_LIMITED  BOTH
SKIP_STEADY_STATE    NO
FORCE_MAIN_EQUATION  H-W
LINK_OFFSETS         DEPTH
MIN_SLOPE            0

[EVAPORATION]
;;Type          Parameters
;;------------- ----------
CONSTANT     0.0
DRY_ONLY     NO

[RAINGAGES]
;;               Rain      Time   Snow   Data
;;Name           Type      Intrvl Catch  Source
;;-------------- --------- ------ ------ ----------
rg100            INTENSITY 0:15   1.0    TIMESERIES SCS_24h_Type_II_2.8in
UDFCD100         VOLUME    0:05   1.0    TIMESERIES UDFCD100
UDFCD5           VOLUME    0:05   1.0    TIMESERIES Timeseries1

[SUBCATCHMENTS]
;;                                          Total    Pcnt.             Pcnt.    Curb
Snow
;;Name           Raingage         Outlet           Area     Imperv   Width    Slope    Length
Pack
;;-------------- ---------------- ---------------- -------- -------- -------- -------- --------
--------
FI02             UDFCD100         J-FI02           14.8581  94.7     2303.52  2.36161  0
FI13             UDFCD100         J-FI13           38.4257  32.3     5397.57  8.40378  0
FI26             UDFCD100         J-FI26           36.5575  18.7     3985.99  20.2158  0
FI30             UDFCD100         J-FI30           63.4337  13.2     5111.7   23.9451  0
FI35             UDFCD100         J-FI35           195.539  2.8      10513.8  26.6013  0
FI33             UDFCD100         J-FI33           34.9892  35.4     5284.06  12.6418  0
FI37             UDFCD100         J-FI37           16453.1  2.65     57049.2  8.24552  0
FI31             UDFCD100         J-FI31           197.295  3.6      4411.14  26.3197  0
FI23             UDFCD100         J-FI23           40.5847  22.2     5394.58  19.6494  0
FI24             UDFCD100         J-FI24           46.6755  29.1     4158.4   20.9696  0
FI22             UDFCD100         J-FI22           70.4     24.4     3641.14  16.7969  0
FI16             UDFCD100         J-FI16           41.3559  31       3770.45  15.2979  0
FI18             UDFCD100         J-FI18           10.9205  25.1     3271.27  20.3285  0
FI25             UDFCD100         J-FI25           21.3844  18.2     2715.82  13.3661  0
FI34             UDFCD100         J-FI34           66.866   9.3      3800.12  24.1255  0
FI27             UDFCD100         J-FI27           38.5741  6.7      4048.31  27.7894  0
FI28             UDFCD100         J-FI28           23.8508  16.6     1355.57  23.0456  0
FI12             UDFCD100         J-FI12           31.6894  31       4837.24  8.18649  0
FI11             UDFCD100         J-FI11           15.9459  19.9     3889.66  9.66666  0
FI09             UDFCD100         J-FI09           16.9481  33.2     2144.87  7.38507  0
FI08             UDFCD100         J-FI08           13.4772  27.6     3054.56  8.01424  0
FI32             UDFCD100         J-FI32           73.4585  49.4     4566.27  15.6364  0
FI36             UDFCD100         J-FI36           72.0061  3.7      5910.04  19.7393  0
FI19             UDFCD100         J-FI19           6.75165  28.2     2035.28  9.23706  0
FI20             UDFCD100         J-FI20           12.0516  17.9     3226.25  18.4115  0
FI07             UDFCD100         J-FI07           24.8117  39.2     3351.01  6.60099  0
FI29             UDFCD100         J-FI29           18.6776  19.7     1525.09  26.9754  0
FI01             UDFCD100         J-FI01           13.3448  85       1689.7   3.03013  0
FI03             UDFCD100         J-FI03           18.7236  48       1988.44  10.38    0
FI04             UDFCD100         J-FI04           19.4543  33.2     2543.69  6.0542   0
FI06             UDFCD100         J-FI06           13.0507  30.2     2424.26  6.38546  0
FI05             UDFCD100         J-FI05           16.5811  39.3     4175.24  5.43202  0
FI17             UDFCD100         J-FI17           8.11905  29.3     1639.58  22.9449  0
FI14             UDFCD100         J-FI14           19.3687  26.2     2088.1   9.19494  0
FI10             UDFCD100         J-FI10           18.4571  33.1     3500.83  9.43777  0
FI21             UDFCD100         J-FI21           26.7844  20       3962.68  21.2886  0
FI15             UDFCD100         J-FI15           34.6011  31       4710.8   15.0123  0

[SUBAREAS]
;;Subcatchment   N-Imperv   N-Perv     S-Imperv   S-Perv     PctZero    RouteTo    PctRouted
;;-------------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
FI02             0.02       0.2        0.1        0.35       10         OUTLET
FI13             0.02       0.2        0.1        0.35       10         OUTLET
FI26             0.02       0.2        0.1        0.35       10         OUTLET
FI30             0.02       0.2        0.1        0.35       10         OUTLET
FI35             0.02       0.2        0.1        0.35       10         OUTLET
FI33             0.02       0.2        0.1        0.35       10         OUTLET
FI37             0.02       0.2        0.1        0.35       10         OUTLET
FI31             0.02       0.2        0.1        0.35       10         OUTLET
FI23             0.02       0.2        0.1        0.35       10         OUTLET
FI24             0.02       0.2        0.1        0.35       10         OUTLET
FI22             0.02       0.2        0.1        0.35       10         OUTLET
FI16             0.02       0.2        0.1        0.35       10         OUTLET
FI18             0.02       0.2        0.1        0.35       10         OUTLET
FI25             0.02       0.2        0.1        0.35       10         OUTLET
FI34             0.02       0.2        0.1        0.35       10         OUTLET
FI27             0.02       0.2        0.1        0.35       10         OUTLET
FI28             0.02       0.2        0.1        0.35       10         OUTLET
FI12             0.02       0.2        0.1        0.35       10         OUTLET
FI11             0.02       0.2        0.1        0.35       10         OUTLET
FI09             0.02       0.2        0.1        0.35       10         OUTLET
FI08             0.02       0.2        0.1        0.35       10         OUTLET
FI32             0.02       0.2        0.1        0.35       10         OUTLET
FI36             0.02       0.2        0.1        0.35       10         OUTLET
FI19             0.02       0.2        0.1        0.35       10         OUTLET
FI20             0.02       0.2        0.1        0.35       10         OUTLET
FI07             0.02       0.2        0.1        0.35       10         OUTLET
FI29             0.02       0.2        0.1        0.35       10         OUTLET
FI01             0.02       0.2        0.1        0.35       10         OUTLET
FI03             0.02       0.2        0.1        0.35       10         OUTLET
FI04             0.02       0.2        0.1        0.35       10         OUTLET
FI06             0.02       0.2        0.1        0.35       10         OUTLET
```

```
FI05             0.02       0.2        0.1        0.35       10         OUTLET
FI17             0.02       0.2        0.1        0.35       10         OUTLET
FI14             0.02       0.2        0.1        0.35       10         OUTLET
FI10             0.02       0.2        0.1        0.35       10         OUTLET
FI21             0.02       0.2        0.1        0.35       10         OUTLET
FI15             0.02       0.2        0.1        0.35       10         OUTLET

[INFILTRATION]
;;Subcatchment   MaxRate    MinRate    Decay      DryTime    MaxInfil
;;-------------- ---------- ---------- ---------- ---------- ----------
FI02             3          0.5        6.48       7          0
FI13             3          0.5        6.48       7          0
FI26             3          0.5        6.48       7          0
FI30             3          0.5        6.48       7          0
FI35             3          0.5        6.48       7          0
FI33             3          0.5        6.48       7          0
FI37             3          0.5        6.48       7          0
FI31             3          0.5        6.48       7          0
FI23             3          0.5        6.48       7          0
FI24             3          0.5        6.48       7          0
FI22             3          0.5        6.48       7          0
FI16             3          0.5        6.48       7          0
FI18             3          0.5        6.48       7          0
FI25             3          0.5        6.48       7          0
FI34             3          0.5        6.48       7          0
FI27             3          0.5        6.48       7          0
FI28             3          0.5        6.48       7          0
FI12             3          0.5        6.48       7          0
FI11             3          0.5        6.48       7          0
FI09             3          0.5        6.48       7          0
FI08             3          0.5        6.48       7          0
FI32             3          0.5        6.48       7          0
FI36             3          0.5        6.48       7          0
FI19             3          0.5        6.48       7          0
FI20             3          0.5        6.48       7          0
FI07             3          0.5        6.48       7          0
FI29             3          0.5        6.48       7          0
FI01             3          0.5        6.48       7          0
FI03             3          0.5        6.48       7          0
FI04             3          0.5        6.48       7          0
FI06             3          0.5        6.48       7          0
FI05             3          0.5        6.48       7          0
FI17             3          0.5        6.48       7          0
FI14             3          0.5        6.48       7          0
FI10             3          0.5        6.48       7          0
FI21             3          0.5        6.48       7          0
FI15             3          0.5        6.48       7          0

[JUNCTIONS]
;;               Invert     Max.       Init.      Surcharge  Ponded
;;Name           Elev.      Depth      Depth      Depth      Area
;;-------------- ---------- ---------- ---------- ---------- ----------
J-FI36           7306       0          0          0          0
J-FI37           7360       0          0          0          0
J-FI35           7328       0          0          0          0
J-FI33           7276       0          0          0          0
J-FI34           7276       0          0          0          0
J-FI27           7250       0          0          0          0
J-FI31           7186       0          0          0          0
J-FI29           7144       0          0          0          0
J-FI18           7120       0          0          0          0
J-FI20           7193       0          0          0          0
J-FI19           7194       0          0          0          0
J-FI26           7206       0          0          0          0
J-FI25           7207       0          0          0          0
J-FI16           6996       0          0          0          0
J-FI32           7164       0          0          0          0
J-FI30           7144       0          0          0          0
J-FI23           7101       0          0          0          0
J-FI24           7100       0          0          0          0
J-FI03           6784       0          0          0          0
J-FI02           6764       0          0          0          0
J-FI06           6890       0          0          0          0
J-FI07           6940       0          0          0          0
J-FI08           6850       0          0          0          0
J-FI05           6810       0          0          0          0
J-FI04           6816       0          0          0          0
J-FI17           7098       0          0          0          0
J-FI09           6848       0          0          0          0
J-FI11           6888       0          0          0          0
J-FI10           6886       0          0          0          0
J-FI14           7020       0          0          0          0
J-FI12           6928       0          0          0          0
J-FI13           6926       0          0          0          0
J-FI21           7054       0          0          0          0
J-FI15           6994       0          0          0          0
J-FI22           7054       0          0          0          0
J-FI28           7251       0          0          0          0
J1               6907       0          0          0          0
J2               7273       0          0          0          0

[OUTFALLS]
;;               Invert     Outfall    Stage/Table      Tide
;;Name           Elev.      Type       Time Series      Gate
;;-------------- ---------- ---------- ---------------- ----
J-FI01           6742       FREE                        NO

[CONDUITS]
;;               Inlet            Outlet                      Manning    Inlet      Outlet
Init.      Max.
;;Name           Node             Node             Length     N          Offset     Offset
Flow       Flow
;;-------------- ---------------- ---------------- ---------- ---------- ---------- ----------
---------- ----------
C1               J-FI02           J-FI01           1138.17    0.01       0          0
0          0
C2               J-FI03           J-FI02           1122.48    0.01       0          0
0          0
C3               J-FI05           J-FI03           1048.93    0.01       0          0
0          0
C4               J-FI04           J-FI05           218.11     0.01       0          0
0          0
C5               J-FI09           J-FI05           1663.91    0.01       0          0
0          0
C6               J-FI08           J-FI09           32.73      0.01       0          0
0          0
C7               J-FI10           J-FI08           1125.41    0.01       0          0
0          0
C8               J-FI11           J-FI10           35.18      0.01       0          0
0          0
C9               J-FI13           J1               399.97     0.01       0          0
0          0
C10              J-FI12           J-FI13           23.88      0.01       0          0
0          0
C11              J-FI16           J-FI15           27.28      0.01       0          0
0          0
```

```
C12             J-FI15          J-FI12          1690.29   0.01      0         0
0         0
C13             J-FI22          J-FI16          1600.78   0.01      0         0
0         0
C14             J-FI21          J-FI22          28.46     0.01      0         0
0         0
C15             J-FI24          J-FI21          1380.11   0.01      0         0
0         0
C16             J-FI23          J-FI24          25.05     0.01      0         0
0         0
C17             J-FI29          J-FI23          1473.26   0.01      0         0
0         0
C18             J-FI32          J-FI29          438.89    0.01      0         0
0         0
C19             J-FI30          J-FI29          295.4     0.01      0         0
0         0
C20             J-FI31          J-FI29          1436.38   0.01      0         0
0         0
C22             J-FI35          J-FI34          1606.84   0.01      0         0
0         0
C23             J-FI36          J-FI34          1218.82   0.01      0         0
0         0
C24             J-FI33          J-FI34          231.85    0.01      0         0
0         0
C25             J-FI34          J-FI28          1280.71   0.01      0         0
0         0
C26             J-FI28          J-FI27          22.57     0.01      0         0
0         0
C27             J-FI27          J-FI25          1448.49   0.01      0         0
0         0
C28             J-FI25          J-FI26          51.52     0.01      0         0
0         0
C29             J-FI26          J-FI19          515.34    0.01      0         0
0         0
C30             J-FI19          J-FI20          9.27      0.01      0         0
0         0
C31             J-FI20          J-FI18          676.48    0.01      0         0
0         0
C32             J-FI18          J-FI16          1096.22   0.01      0         0
0         0
C33             J-FI17          J-FI16          1086.32   0.01      0         0
0         0
C34             J-FI07          J-FI08          868.09    0.01      0         0
0         0
C35             J-FI06          J-FI04          1470.29   0.01      0         0
0         0
C36             J1              J-FI11          623.37    0.01      0         0
0         0
C37             J-FI14          J1              1177.21   0.01      0         0
0         0
C38             J-FI37          J2              1434.95   0.01      0         0
0         0
C39             J2              J-FI31          1658.92   0.01      0         0
0         0
```

[XSECTIONS]

```
;;Link           Shape        Geom1            Geom2      Geom3      Geom4      Barrels
;;-------------- ------------ ---------------- ---------- ---------- ---------- ----------
C1               IRREGULAR    channel-overflow3r 0          0          0          1
C2               IRREGULAR    channel-overflow3r 0          0          0          1
C3               IRREGULAR    channel-overflow3r 0          0          0          1
C4               IRREGULAR    channel-overflow1s 0          0          0          1
C5               IRREGULAR    channel-overflow3r 0          0          0          1
C6               DUMMY        0                0          0          0          1
C7               IRREGULAR    channel-overflow3r 0          0          0          1
C8               DUMMY        0                0          0          0          1
C9               IRREGULAR    channel-overflow3r 0          0          0          1
C10              DUMMY        0                0          0          0          1
C11              DUMMY        0                0          0          0          1
C12              IRREGULAR    channel-overflow3r 0          0          0          1
C13              IRREGULAR    channel-overflow3r 0          0          0          1
C14              DUMMY        0                0          0          0          1
C15              IRREGULAR    channel-overflow3r 0          0          0          1
C16              IRREGULAR    channel-overflow3r 0          0          0          1
C17              IRREGULAR    channel-overflow3r 0          0          0          1
C18              IRREGULAR    channel-overflow3r 0          0          0          1
C19              IRREGULAR    street-main      0          0          0          1
C20              IRREGULAR    channel-overflow3r 0          0          0          1
C22              IRREGULAR    channel-overflow1a 0          0          0          1
C23              IRREGULAR    channel-main2nd  0          0          0          1
C24              IRREGULAR    channel-overflow2n 0          0          0          1
C25              IRREGULAR    channel-main2nd  0          0          0          1
C26              DUMMY        0                0          0          0          1
C27              IRREGULAR    channel-main2nd  0          0          0          1
C28              DUMMY        0                0          0          0          1
C29              IRREGULAR    channel-main2nd  0          0          0          1
C30              DUMMY        0                0          0          0          1
C31              IRREGULAR    Channel-overflow2a 0          0          0          1
C32              IRREGULAR    Channel-overflow2a 0          0          0          1
C33              IRREGULAR    street-overflow  0          0          0          1
C34              IRREGULAR    channel-overflow1a 0          0          0          1
C35              IRREGULAR    street-overflow  0          0          0          1
C36              IRREGULAR    channel-overflow3r 0          0          0          1
C37              IRREGULAR    channel-overflow2a 0          0          0          1
C38              IRREGULAR    channel-overflow3r 0          0          0          1
C39              IRREGULAR    channel-overflow3r 0          0          0          1
```

[TRANSECTS]

```
NC 0.0625   0.0625   0.0375
X1 channel-main1st  8        4        8        0.0       0.0       0.0       0.0       0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        8
GR 0.5      8        1.5      12       5.5      28

NC 0.0625   0.0625   0.0375
X1 channel-main2nd  8        4        12       0.0       0.0       0.0       0.0       0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        12
GR 0.5      12       1.5      16       5.5      32

NC 0.0625   0.0625   0.0375
X1 channel-main3rd  8        4        16       0.0       0.0       0.0       0.0       0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        16
GR 0.5      16       1.5      20       5.5      36

NC 0.0625   0.0625   0.0375
X1 channel-overflow1s 8        20       28       0.0       0.0       0.0       0.0       0.0
GR 6        -80      2        0        1        20       0        20       0        28
GR 1        28       2        48       6        128

NC 0.0625   0.0625   0.0375
X1 channel-overflow2n 8        20       35       0.0       0.0       0.0       0.0       0.0
GR 6        -80      2        0        1        20       0        20       0        35
GR 1        35       2        55       6        135

NC 0.0625   0.0625   0.0375
X1 channel-overflow3r 8        20       50       0.0       0.0       0.0       0.0       0.0
```

```
GR 6        -80      2        0        1        20       0        20       0        60
GR 1        60       2        80       6        160

NC 0.0625   0.0625   0.01875
X1 street-main      9        6        30.5     0.0      0.0      0.0      0.0      0.0
GR 7        -18      1        0        0        3        1        6        1.25     18.5
GR 1        30.5     0        33.5     1        36.5     7        54.5

NC 0.0625   0.0625   0.01875
X1 street-overflow  11       13       53       0.0      0.0      0.0      0.0      0.0
GR 3        -20      2        0        0        6        0        7        2        13
GR 2.4      33       2        53       0        59       0        60       2        66
GR 3        86

NC 0.05     0.05     0.044
X1 largeriver       12       21       41       0.0      0.0      0.0      0.0      0.0
GR 10       -45      7        -45      5        -5       4        15       2        21
GR 0        21       0        41       2        41       4        47       5        67
GR 7        107      10       107

NC 0.122    0.122    0.073
X1 channel-main1a   8        4        8        0.0      0.0      0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        8
GR 0.5      8        1.5      12       5.5      28

NC 0.122    0.122    0.073
X1 channel-overflow1a 8        20       28       0.0      0.0      0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        28
GR 1        28       2        48       6        128

NC 0.122    0.122    0.073
X1 Channel-overflow2a 8        20       35       0.0      0.0      0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        35
GR 1        35       2        55       6        135

[LOSSES]
;;Link           Inlet      Outlet     Average    Flap Gate
;;-------------- ---------- ---------- ---------- ----------

[TIMESERIES]
;;Name           Date       Time       Value
;;-------------- ---------- ---------- ----------
;SCS_24h_Type_II_2.8in design storm, total rainfall = 2.8 in, rain units = in/hr.
SCS_24h_Type_II_2.8in            0:00       0
SCS_24h_Type_II_2.8in            0:15       0.03696
SCS_24h_Type_II_2.8in            0:30       0.03696
SCS_24h_Type_II_2.8in            0:45       0.03808
SCS_24h_Type_II_2.8in            1:00       0.03696
SCS_24h_Type_II_2.8in            1:15       0.03696
SCS_24h_Type_II_2.8in            1:30       0.03808
SCS_24h_Type_II_2.8in            1:45       0.03696
SCS_24h_Type_II_2.8in            2:00       0.03696
SCS_24h_Type_II_2.8in            2:15       0.03808
SCS_24h_Type_II_2.8in            2:30       0.03696
SCS_24h_Type_II_2.8in            2:45       0.03696
SCS_24h_Type_II_2.8in            3:00       0.03808
SCS_24h_Type_II_2.8in            3:15       0.03696
SCS_24h_Type_II_2.8in            3:30       0.03696
SCS_24h_Type_II_2.8in            3:45       0.03808
SCS_24h_Type_II_2.8in            4:00       0.03696
SCS_24h_Type_II_2.8in            4:15       0.03696
SCS_24h_Type_II_2.8in            4:30       0.03808
SCS_24h_Type_II_2.8in            4:45       0.03696
SCS_24h_Type_II_2.8in            5:00       0.03696
SCS_24h_Type_II_2.8in            5:15       0.03808
SCS_24h_Type_II_2.8in            5:30       0.03696
SCS_24h_Type_II_2.8in            5:45       0.03696
SCS_24h_Type_II_2.8in            6:00       0.03808
SCS_24h_Type_II_2.8in            6:15       0.03696
SCS_24h_Type_II_2.8in            6:30       0.03696
SCS_24h_Type_II_2.8in            6:45       0.03808
SCS_24h_Type_II_2.8in            7:00       0.03696
SCS_24h_Type_II_2.8in            7:15       0.03696
SCS_24h_Type_II_2.8in            7:30       0.03808
SCS_24h_Type_II_2.8in            7:45       0.07392
SCS_24h_Type_II_2.8in            8:00       0.07504
SCS_24h_Type_II_2.8in            8:15       0.07504
SCS_24h_Type_II_2.8in            8:30       0.07392
SCS_24h_Type_II_2.8in            8:45       0.07504
SCS_24h_Type_II_2.8in            9:00       0.07504
SCS_24h_Type_II_2.8in            9:15       0.112
SCS_24h_Type_II_2.8in            9:30       0.112
SCS_24h_Type_II_2.8in            9:45       0.112
SCS_24h_Type_II_2.8in            10:00      0.112
SCS_24h_Type_II_2.8in            10:15      0.112
SCS_24h_Type_II_2.8in            10:30      0.112
SCS_24h_Type_II_2.8in            10:45      0.224
SCS_24h_Type_II_2.8in            11:00      0.224
SCS_24h_Type_II_2.8in            11:15      0.336
SCS_24h_Type_II_2.8in            11:30      0.56
SCS_24h_Type_II_2.8in            11:45      0.672
SCS_24h_Type_II_2.8in            12:00      1.344
SCS_24h_Type_II_2.8in            12:15      1.344
SCS_24h_Type_II_2.8in            12:30      0.672
SCS_24h_Type_II_2.8in            12:45      0.56
SCS_24h_Type_II_2.8in            13:00      0.336
SCS_24h_Type_II_2.8in            13:15      0.224
SCS_24h_Type_II_2.8in            13:30      0.224
SCS_24h_Type_II_2.8in            13:45      0.112
SCS_24h_Type_II_2.8in            14:00      0.112
SCS_24h_Type_II_2.8in            14:15      0.112
SCS_24h_Type_II_2.8in            14:30      0.112
SCS_24h_Type_II_2.8in            14:45      0.112
SCS_24h_Type_II_2.8in            15:00      0.112
SCS_24h_Type_II_2.8in            15:15      0.07392
SCS_24h_Type_II_2.8in            15:30      0.07504
SCS_24h_Type_II_2.8in            15:45      0.07504
SCS_24h_Type_II_2.8in            16:00      0.07392
SCS_24h_Type_II_2.8in            16:15      0.07504
SCS_24h_Type_II_2.8in            16:30      0.07504
SCS_24h_Type_II_2.8in            16:45      0.03696
SCS_24h_Type_II_2.8in            17:00      0.03696
SCS_24h_Type_II_2.8in            17:15      0.03808
SCS_24h_Type_II_2.8in            17:30      0.03696
SCS_24h_Type_II_2.8in            17:45      0.03696
SCS_24h_Type_II_2.8in            18:00      0.03808
SCS_24h_Type_II_2.8in            18:15      0.03696
SCS_24h_Type_II_2.8in            18:30      0.03696
SCS_24h_Type_II_2.8in            18:45      0.03808
SCS_24h_Type_II_2.8in            19:00      0.03696
SCS_24h_Type_II_2.8in            19:15      0.03696
SCS_24h_Type_II_2.8in            19:30      0.03808
SCS_24h_Type_II_2.8in            19:45      0.03696
SCS_24h_Type_II_2.8in            20:00      0.03696
SCS_24h_Type_II_2.8in            20:15      0.03808
SCS_24h_Type_II_2.8in            20:30      0.03696
```

```
SCS_24h_Type_II_2.8in           20:45      0.03696
SCS_24h_Type_II_2.8in           21:00      0.03808
SCS_24h_Type_II_2.8in           21:15      0.03696
SCS_24h_Type_II_2.8in           21:30      0.03696
SCS_24h_Type_II_2.8in           21:45      0.03808
SCS_24h_Type_II_2.8in           22:00      0.03696
SCS_24h_Type_II_2.8in           22:15      0.03696
SCS_24h_Type_II_2.8in           22:30      0.03808
SCS_24h_Type_II_2.8in           22:45      0.03696
SCS_24h_Type_II_2.8in           23:00      0.03696
SCS_24h_Type_II_2.8in           23:15      0.03808
SCS_24h_Type_II_2.8in           23:30      0.03696
SCS_24h_Type_II_2.8in           23:45      0.03696
SCS_24h_Type_II_2.8in           24:00      0.03808

UDFCD100                    0:05       0.0146
UDFCD100                    0:10       0.0438
UDFCD100                    0:15       0.06716
UDFCD100                    0:20       0.1168
UDFCD100                    0:25       0.2044
UDFCD100                    0:30       0.365
UDFCD100                    0:35       0.2044
UDFCD100                    0:40       0.1168
UDFCD100                    0:45       0.09052
UDFCD100                    0:50       0.073
UDFCD100                    0:55       0.0584
UDFCD100                    1:00       0.0584
UDFCD100                    1:05       0.0584
UDFCD100                    1:10       0.0292
UDFCD100                    1:15       0.0292
UDFCD100                    1:20       0.01752
UDFCD100                    1:25       0.01752
UDFCD100                    1:30       0.01752
UDFCD100                    1:35       0.01752
UDFCD100                    1:40       0.01752
UDFCD100                    1:45       0.01752
UDFCD100                    1:50       0.01752
UDFCD100                    1:55       0.01752
UDFCD100                    2:00       0.01752
UDFCD100                    2:05       0

;SCS_24h_Type_II_1.7in design storm, total rainfall = 1.7 in, rain units = in.
SCS_24h_Type_II_1.7in           0:00       0.00468
SCS_24h_Type_II_1.7in           0:15       0.00468
SCS_24h_Type_II_1.7in           0:30       0.00468
SCS_24h_Type_II_1.7in           0:45       0.00468
SCS_24h_Type_II_1.7in           1:00       0.00468
SCS_24h_Type_II_1.7in           1:15       0.00468
SCS_24h_Type_II_1.7in           1:30       0.00468
SCS_24h_Type_II_1.7in           1:45       0.00468
SCS_24h_Type_II_1.7in           2:00       0.00552
SCS_24h_Type_II_1.7in           2:15       0.00552
SCS_24h_Type_II_1.7in           2:30       0.00552
SCS_24h_Type_II_1.7in           2:45       0.00552
SCS_24h_Type_II_1.7in           3:00       0.00552
SCS_24h_Type_II_1.7in           3:15       0.00552
SCS_24h_Type_II_1.7in           3:30       0.00552
SCS_24h_Type_II_1.7in           3:45       0.00552
SCS_24h_Type_II_1.7in           4:00       0.0068
SCS_24h_Type_II_1.7in           4:15       0.0068
SCS_24h_Type_II_1.7in           4:30       0.0068
SCS_24h_Type_II_1.7in           4:45       0.0068
SCS_24h_Type_II_1.7in           5:00       0.0068
SCS_24h_Type_II_1.7in           5:15       0.0068
SCS_24h_Type_II_1.7in           5:30       0.0068
SCS_24h_Type_II_1.7in           5:45       0.0068
SCS_24h_Type_II_1.7in           6:00       0.00765
SCS_24h_Type_II_1.7in           6:15       0.00765
SCS_24h_Type_II_1.7in           6:30       0.00765
SCS_24h_Type_II_1.7in           6:45       0.00765
SCS_24h_Type_II_1.7in           7:00       0.00935
SCS_24h_Type_II_1.7in           7:15       0.00935
SCS_24h_Type_II_1.7in           7:30       0.00935
SCS_24h_Type_II_1.7in           7:45       0.00935
SCS_24h_Type_II_1.7in           8:00       0.0111
SCS_24h_Type_II_1.7in           8:15       0.0111
SCS_24h_Type_II_1.7in           8:30       0.0119
SCS_24h_Type_II_1.7in           8:45       0.0119
SCS_24h_Type_II_1.7in           9:00       0.0136
SCS_24h_Type_II_1.7in           9:15       0.0136
SCS_24h_Type_II_1.7in           9:30       0.0153
SCS_24h_Type_II_1.7in           9:45       0.0153
SCS_24h_Type_II_1.7in           10:00      0.0196
SCS_24h_Type_II_1.7in           10:15      0.0196
SCS_24h_Type_II_1.7in           10:30      0.0264
SCS_24h_Type_II_1.7in           10:45      0.0264
SCS_24h_Type_II_1.7in           11:00      0.0408
SCS_24h_Type_II_1.7in           11:15      0.0408
SCS_24h_Type_II_1.7in           11:30      0.126
SCS_24h_Type_II_1.7in           11:45      0.52
SCS_24h_Type_II_1.7in           12:00      0.0612
SCS_24h_Type_II_1.7in           12:15      0.0612
SCS_24h_Type_II_1.7in           12:30      0.0314
SCS_24h_Type_II_1.7in           12:45      0.0314
SCS_24h_Type_II_1.7in           13:00      0.023
SCS_24h_Type_II_1.7in           13:15      0.023
SCS_24h_Type_II_1.7in           13:30      0.0178
SCS_24h_Type_II_1.7in           13:45      0.0178
SCS_24h_Type_II_1.7in           14:00      0.0127
SCS_24h_Type_II_1.7in           14:15      0.0127
SCS_24h_Type_II_1.7in           14:30      0.0127
SCS_24h_Type_II_1.7in           14:45      0.0127
SCS_24h_Type_II_1.7in           15:00      0.0127
SCS_24h_Type_II_1.7in           15:15      0.0127
SCS_24h_Type_II_1.7in           15:30      0.0127
SCS_24h_Type_II_1.7in           15:45      0.0127
SCS_24h_Type_II_1.7in           16:00      0.00765
SCS_24h_Type_II_1.7in           16:15      0.00765
SCS_24h_Type_II_1.7in           16:30      0.00765
SCS_24h_Type_II_1.7in           16:45      0.00765
SCS_24h_Type_II_1.7in           17:00      0.00765
SCS_24h_Type_II_1.7in           17:15      0.00765
SCS_24h_Type_II_1.7in           17:30      0.00765
SCS_24h_Type_II_1.7in           17:45      0.00765
SCS_24h_Type_II_1.7in           18:00      0.00765
SCS_24h_Type_II_1.7in           18:15      0.00765
SCS_24h_Type_II_1.7in           18:30      0.00765
SCS_24h_Type_II_1.7in           18:45      0.00765
SCS_24h_Type_II_1.7in           19:00      0.00765
SCS_24h_Type_II_1.7in           19:15      0.00765
SCS_24h_Type_II_1.7in           19:30      0.00765
SCS_24h_Type_II_1.7in           19:45      0.00765
SCS_24h_Type_II_1.7in           20:00      0.0051
SCS_24h_Type_II_1.7in           20:15      0.0051
SCS_24h_Type_II_1.7in           20:30      0.0051
SCS_24h_Type_II_1.7in           20:45      0.0051
```

```
SCS_24h_Type_II_1.7in           21:00      0.0051
SCS_24h_Type_II_1.7in           21:15      0.0051
SCS_24h_Type_II_1.7in           21:30      0.0051
SCS_24h_Type_II_1.7in           21:45      0.0051
SCS_24h_Type_II_1.7in           22:00      0.0051
SCS_24h_Type_II_1.7in           22:15      0.0051
SCS_24h_Type_II_1.7in           22:30      0.0051
SCS_24h_Type_II_1.7in           22:45      0.0051
SCS_24h_Type_II_1.7in           23:00      0.0051
SCS_24h_Type_II_1.7in           23:15      0.0051
SCS_24h_Type_II_1.7in           23:30      0.0051
SCS_24h_Type_II_1.7in           23:45      0.0051
SCS_24h_Type_II_1.7in           24:00      0

;SCS_24h_Type_II_2.4in design storm, total rainfall = 2.4 in, rain units = in.
SCS_24h_Type_II_2.4in           0:00       0.0066
SCS_24h_Type_II_2.4in           0:15       0.0066
SCS_24h_Type_II_2.4in           0:30       0.0066
SCS_24h_Type_II_2.4in           0:45       0.0066
SCS_24h_Type_II_2.4in           1:00       0.0066
SCS_24h_Type_II_2.4in           1:15       0.0066
SCS_24h_Type_II_2.4in           1:30       0.0066
SCS_24h_Type_II_2.4in           1:45       0.0066
SCS_24h_Type_II_2.4in           2:00       0.0078
SCS_24h_Type_II_2.4in           2:15       0.0078
SCS_24h_Type_II_2.4in           2:30       0.0078
SCS_24h_Type_II_2.4in           2:45       0.0078
SCS_24h_Type_II_2.4in           3:00       0.0078
SCS_24h_Type_II_2.4in           3:15       0.0078
SCS_24h_Type_II_2.4in           3:30       0.0078
SCS_24h_Type_II_2.4in           3:45       0.0078
SCS_24h_Type_II_2.4in           4:00       0.0096
SCS_24h_Type_II_2.4in           4:15       0.0096
SCS_24h_Type_II_2.4in           4:30       0.0096
SCS_24h_Type_II_2.4in           4:45       0.0096
SCS_24h_Type_II_2.4in           5:00       0.0096
SCS_24h_Type_II_2.4in           5:15       0.0096
SCS_24h_Type_II_2.4in           5:30       0.0096
SCS_24h_Type_II_2.4in           5:45       0.0096
SCS_24h_Type_II_2.4in           6:00       0.0108
SCS_24h_Type_II_2.4in           6:15       0.0108
SCS_24h_Type_II_2.4in           6:30       0.0108
SCS_24h_Type_II_2.4in           6:45       0.0108
SCS_24h_Type_II_2.4in           7:00       0.0132
SCS_24h_Type_II_2.4in           7:15       0.0132
SCS_24h_Type_II_2.4in           7:30       0.0132
SCS_24h_Type_II_2.4in           7:45       0.0132
SCS_24h_Type_II_2.4in           8:00       0.0156
SCS_24h_Type_II_2.4in           8:15       0.0156
SCS_24h_Type_II_2.4in           8:30       0.0168
SCS_24h_Type_II_2.4in           8:45       0.0168
SCS_24h_Type_II_2.4in           9:00       0.0192
SCS_24h_Type_II_2.4in           9:15       0.0192
SCS_24h_Type_II_2.4in           9:30       0.0216
SCS_24h_Type_II_2.4in           9:45       0.0216
SCS_24h_Type_II_2.4in           10:00      0.0276
SCS_24h_Type_II_2.4in           10:15      0.0276
SCS_24h_Type_II_2.4in           10:30      0.0372
SCS_24h_Type_II_2.4in           10:45      0.0372
SCS_24h_Type_II_2.4in           11:00      0.0576
SCS_24h_Type_II_2.4in           11:15      0.0576
SCS_24h_Type_II_2.4in           11:30      0.178
SCS_24h_Type_II_2.4in           11:45      0.734
SCS_24h_Type_II_2.4in           12:00      0.0864
SCS_24h_Type_II_2.4in           12:15      0.0864
SCS_24h_Type_II_2.4in           12:30      0.0444
SCS_24h_Type_II_2.4in           12:45      0.0444
SCS_24h_Type_II_2.4in           13:00      0.0324
SCS_24h_Type_II_2.4in           13:15      0.0324
SCS_24h_Type_II_2.4in           13:30      0.0252
SCS_24h_Type_II_2.4in           13:45      0.0252
SCS_24h_Type_II_2.4in           14:00      0.018
SCS_24h_Type_II_2.4in           14:15      0.018
SCS_24h_Type_II_2.4in           14:30      0.018
SCS_24h_Type_II_2.4in           14:45      0.018
SCS_24h_Type_II_2.4in           15:00      0.018
SCS_24h_Type_II_2.4in           15:15      0.018
SCS_24h_Type_II_2.4in           15:30      0.018
SCS_24h_Type_II_2.4in           15:45      0.018
SCS_24h_Type_II_2.4in           16:00      0.0108
SCS_24h_Type_II_2.4in           16:15      0.0108
SCS_24h_Type_II_2.4in           16:30      0.0108
SCS_24h_Type_II_2.4in           16:45      0.0108
SCS_24h_Type_II_2.4in           17:00      0.0108
SCS_24h_Type_II_2.4in           17:15      0.0108
SCS_24h_Type_II_2.4in           17:30      0.0108
SCS_24h_Type_II_2.4in           17:45      0.0108
SCS_24h_Type_II_2.4in           18:00      0.0108
SCS_24h_Type_II_2.4in           18:15      0.0108
SCS_24h_Type_II_2.4in           18:30      0.0108
SCS_24h_Type_II_2.4in           18:45      0.0108
SCS_24h_Type_II_2.4in           19:00      0.0108
SCS_24h_Type_II_2.4in           19:15      0.0108
SCS_24h_Type_II_2.4in           19:30      0.0108
SCS_24h_Type_II_2.4in           19:45      0.0108
SCS_24h_Type_II_2.4in           20:00      0.0072
SCS_24h_Type_II_2.4in           20:15      0.0072
SCS_24h_Type_II_2.4in           20:30      0.0072
SCS_24h_Type_II_2.4in           20:45      0.0072
SCS_24h_Type_II_2.4in           21:00      0.0072
SCS_24h_Type_II_2.4in           21:15      0.0072
SCS_24h_Type_II_2.4in           21:30      0.0072
SCS_24h_Type_II_2.4in           21:45      0.0072
SCS_24h_Type_II_2.4in           22:00      0.0072
SCS_24h_Type_II_2.4in           22:15      0.0072
SCS_24h_Type_II_2.4in           22:30      0.0072
SCS_24h_Type_II_2.4in           22:45      0.0072
SCS_24h_Type_II_2.4in           23:00      0.0072
SCS_24h_Type_II_2.4in           23:15      0.0072
SCS_24h_Type_II_2.4in           23:30      0.0072
SCS_24h_Type_II_2.4in           23:45      0.0072
SCS_24h_Type_II_2.4in           24:00      0

Timeseries1                 0:05       0.0156
Timeseries1                 0:10       0.02886
Timeseries1                 0:15       0.06786
Timeseries1                 0:20       0.11934
Timeseries1                 0:25       0.195
Timeseries1                 0:30       0.1014
Timeseries1                 0:35       0.04524
Timeseries1                 0:40       0.03432
Timeseries1                 0:45       0.02808
Timeseries1                 0:50       0.02808
Timeseries1                 0:55       0.0234
Timeseries1                 1:00       0.0234
Timeseries1                 1:05       0.0234
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Timeseries1                 1:10       0.0234
Timeseries1                 1:15       0.0195
Timeseries1                 1:20       0.01716
Timeseries1                 1:25       0.01716
Timeseries1                 1:30       0.01716
Timeseries1                 1:35       0.01716
Timeseries1                 1:40       0.0117
Timeseries1                 1:45       0.0117
Timeseries1                 1:50       0.0117
Timeseries1                 1:55       0.0117
Timeseries1                 2:00       0.01014
Timeseries1                 2:05       0


[REPORT]
INPUT      YES
CONTROLS   NO
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]

[MAP]
DIMENSIONS       2627567.31018439 1407888.49543258 2681765.63173172 1450381.34358988
UNITS            Feet

[COORDINATES]
;;Node           X-Coord          Y-Coord
;;-------------- ---------------- ----------------
J-FI36           2641923.772      1421101.64
J-FI37           2645283.024      1420171.113
J-FI35           2642014.73       1421585.34
J-FI33           2640958.167      1420598.813
J-FI34           2640799.964      1420768.307
J-FI27           2639687.673      1420239.983
J-FI31           2642747.455      1418617.098
J-FI29           2641392.18       1418393.614
J-FI18           2637979.67       1418631.751
J-FI20           2638189.611      1419254.516
J-FI19           2638197.237      1419259.791
J-FI26           2638458.846      1419647.626
J-FI25           2638500          1419616.625
J-FI16           2637441.136      1417716.382
J-FI32           2641753.202      1418643.182
J-FI30           2641562.755      1418158.893
J-FI23           2640151.912      1417835.853
J-FI24           2640149.742      1417860.81
J-FI03           2632170.85       1415225.176
J-FI02           2631163.037      1415532.468
J-FI06           2633829.39       1416640.827
J-FI07           2634658.304      1416891.294
J-FI08           2634427.439      1416062.564
J-FI05           2633147.903      1415206.094
J-FI04           2633214.454      1415413.798
J-FI17           2637567.537      1418599.828
J-FI09           2634431.97       1416030.152
J-FI11           2635235.051      1416453.095
J-FI10           2635262.395      1416430.959
J-FI14           2636695.109      1416120.008
J-FI12           2636074.037      1417010.85
J-FI13           2636083.206      1416988.805
J-FI21           2638903.857      1417648.459
J-FI15           2637434.48       1417689.924
J-FI22           2638878.599      1417635.345
J-FI28           2639706.619      1420227.713
J1               2635776.021      1416743.027
J2               2644071.404      1419402.56
J-FI01           2630061.475      1415628.822

[VERTICES]
;;Link           X-Coord          Y-Coord
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C1               2630297.858      1415512.566
C2               2631991.586      1415319.968
C2               2631906.616      1415438.925
C2               2631753.671      1415529.56
C2               2631612.055      1415563.547
C3               2632767.642      1415059.394
C3               2632603.367      1415031.071
C3               2632490.074      1415093.382
C5               2634223.455      1415999.725
C5               2634087.504      1415960.072
C5               2633968.546      1415801.462
C5               2633951.552      1415608.865
C5               2633883.576      1415501.236
C7               2635230.989      1416391.999
C7               2635194.942      1416335.926
C7               2635138.868      1416271.841
C7               2635086.799      1416223.778
C7               2635026.72       1416237.797
C7               2634934.599      1416285.86
C7               2634886.536      1416329.918
C7               2634836.47       1416367.968
C7               2634756.365      1416361.96
C7               2634698.288      1416339.931
C7               2634666.246      1416307.889
C7               2634614.178      1416219.773
C7               2634574.125      1416143.673
C7               2634532.07       1416093.607
C7               2634480.001      1416055.557
C9               2635987.03       1416883.7
C9               2635883.055      1416840.886
C12              2637372.648      1417688.71
C12              2637325.986      1417658.138
C12              2637301.85       1417622.739
C12              2637284.151      1417596.994
C12              2637195.653      1417572.858
C12              2637099.111      1417547.114
C12              2637025.095      1417540.678
C12              2636960.733      1417510.106
C12              2636915.68       1417452.18
C12              2636844.882      1417366.901
C12              2636722.595      1417294.494
C12              2636624.443      1417278.403
C12              2636532.727      1417321.848
C12              2636468.366      1417350.81
C12              2636386.304      1417347.592
C12              2636294.589      1417321.848
C12              2636198.046      1417191.515
C12              2636151.384      1417133.59
C12              2636104.722      1417030.611
C13              2638805.119      1417647.287
C13              2638695.684      1417592.57
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C13	2637995.88	1417681.845
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C13	2637759.732	1417759.601
C13	2637589.82	1417678.966
C13	2637540.863	1417678.966
C13	2637486.146	1417696.245
C15	2640057.855	1417845.997
C15	2639968.579	1417808.559
C15	2639864.905	1417739.442
C15	2639769.87	1417707.764
C15	2639674.834	1417748.082
C15	2639599.958	1417756.722
C15	2639473.245	1417756.722
C15	2639372.45	1417750.962
C15	2639288.934	1417742.322
C15	2639216.938	1417693.365
C15	2639167.98	1417624.248
C15	2639090.224	1417578.171
C15	2638995.189	1417575.291
C15	2638914.553	1417632.888
C17	2641296.192	1418301.014
C17	2641241.475	1418203.099
C17	2641198.277	1418085.025
C17	2641126.281	1418044.707
C17	2641002.447	1418070.626
C17	2640947.73	1418082.145
C17	2640815.256	1418036.067
C17	2640630.946	1418001.509
C17	2640435.116	1417917.993
C17	2640299.763	1417863.276
C19	2641512.181	1418275.095
C19	2641420.026	1418367.251
C20	2642632.444	1418597.639
C20	2642459.653	1418678.275
C20	2642347.339	1418698.434
C20	2642200.466	1418655.236
C20	2642114.07	1418586.119
C20	2641935.52	1418528.522
C20	2641811.686	1418522.763
C20	2641647.534	1418473.805
C20	2641523.7	1418424.848
C22	2641766.134	1421456.725
C22	2641711.469	1421191.208
C22	2641688.041	1421081.877
C22	2641406.904	1420972.546
C22	2640993.008	1420808.549
C23	2641648.994	1420933.499
C23	2641274.145	1420753.884
C23	2640914.915	1420730.456
C25	2640549.59	1420639.77
C25	2640317.047	1420428.052
C25	2640157.391	1420334.34
C25	2639997.735	1420299.632
C25	2639810.312	1420330.87
C27	2639678.422	1420167.743
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C27	2639494.471	1420021.969
C27	2639362.581	1419966.437
C27	2639251.516	1419983.791
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C27	2639091.859	1419844.959
C27	2639071.035	1419779.014
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C27	2638671.894	1419699.186
C27	2638560.829	1419661.007
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C31	2638062.915	1418850.974
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C32	2637786.918	1418050.279
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C35	2633795.578	1416515.297
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C35	2633390.488	1416003.843
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C35	2633241.125	1415560.281
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C36	2635516.082	1416568.715
C36	2635335.654	1416504.495
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[Polygons]

;;Subcatchment	X-Coord	Y-Coord
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FI02	2632186.309	1415320.951
FI02	2632128.8	1415237.401
FI02	2632009.466	1415046.886
FI02	2631918.404	1415085.228
FI02	2631579.619	1415084.397
FI02	2631128.625	1415088.785
FI02	2631067.58	1415854.896
FI02	2631254.309	1415843.042
FI02	2631440.506	1415694.604
FI02	2631690.506	1415638.615
FI02	2631832.434	1415598.25
FI02	2631901.444	1415494.084

FI02	2631976.965	1415447.209
FI02	2632058.996	1415547.469
FI02	2632221.846	1415696.519
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FI13	2638030.612	1416458.325
FI13	2637962.597	1416520.695
FI13	2637883.043	1416555.772
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FI13	2637733.304	1416538.411
FI13	2637559.714	1416496.886
FI13	2637362.068	1416561.722
FI13	2637134.204	1416543.276
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FI13	2636834.725	1416715.802
FI13	2636694.751	1416688.675
FI13	2636507.034	1416660.463
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FI13	2636378.996	1416750.524
FI13	2636307.381	1416834.074
FI13	2636260.723	1416899.179
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FI29	2641666	1418774.304
FI29	2641735.727	1418621.096
FI29	2641799.473	1418626.625
FI29	2641925.335	1418632.746
FI29	2641996.411	1418644.569
FI29	2642053	1418677.517
FI29	2642082.726	1418719
FI29	2642128.687	1418767.687
FI29	2642205.132	1418812.663
FI29	2642303.861	1418830.998
FI29	2642399.348	1418827.526
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FI29	2642560.806	1418773.706
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FI29	2642767.356	1418684.407
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FI29	2642413.45	1418502.643
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FI29	2641374.313	1418384.82
FI29	2641311.221	1418438.297
FI29	2641202.635	1418914.441
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FI29	2641166.068	1419335.991
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FI01	2630345.497	1415584.78
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FI01	2630522.812	1415616.549
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FI01	2630642.233	1415962.318
FI01	2630808.249	1415835.364
FI01	2631067.58	1415854.896
FI01	2631128.625	1415088.785
FI01	2630686	1415093.091
FI01	2630506.864	1415087.684
FI01	2630508.949	1415168.932
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FI04	2633867.216	1416585.815
FI04	2633949.247	1416594.929
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FI04	2634164.091	1416736.856
FI04	2634332.06	1416747.273
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FI06	2634575.202	1417655.06
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FI05	2634437.855	1416205.793
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FI17	2637151.038	1418802.214
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FI17	2637194.239	1418827.531
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FI17	2637983.868	1418738.942
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FI10	2636442.343	1416098.531
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FI10	2635903.434	1416280.96
FI10	2635886.542	1416366.958
FI10	2635862.236	1416431.194
FI10	2635712.062	1416438.138
FI10	2635635.673	1416443.347
FI10	2635520.428	1416400.771

FI10	2635436.227	1416404.243
FI10	2635374.595	1416402.507
FI10	2635234.075	1416415.563
FI10	2635239.468	1416431.793
FI10	2635254.051	1416457.835
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FI10	2635401.447	1416531.793
FI10	2635468.635	1416547.939
FI10	2635516.03	1416570.335
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FI10	2635631.921	1416683.095
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FI10	2635782.466	1416752.866
FI10	2635831.468	1416792.511
FI10	2635893.475	1416848.652
FI10	2635956.655	1416883.877
FI10	2636002.489	1416923.981
FI10	2636038.426	1416966.689
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FI10	2636089.282	1416970.793
FI10	2636148.961	1416917.625
FI10	2636205.384	1416921.965
FI10	2636260.723	1416899.179
FI10	2636307.381	1416834.074
FI10	2636378.996	1416750.524
FI10	2636381.166	1416702.781
FI10	2636507.034	1416660.463
FI10	2636694.751	1416688.675
FI10	2636834.725	1416715.802
FI10	2636908.509	1416716.887
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FI10	2637362.068	1416561.722
FI10	2637559.714	1416496.886
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FI21	2638912.711	1417765.647
FI21	2638970.697	1417861.48
FI21	2638985.975	1418158.008
FI21	2639046.391	1418358.703
FI21	2639106.721	1418628.407
FI21	2639255.593	1418950.543
FI21	2639527.393	1419073.334
FI21	2639541.379	1419078.855
FI21	2639680.909	1419133.932
FI21	2639765.746	1419182.411
FI21	2639789.269	1419200.288
FI21	2639795.847	1418727.702
FI21	2639802.791	1418554.091
FI21	2639781.958	1418488.119
FI21	2639741.64	1418410.999
FI21	2639864.64	1418399.794
FI21	2639937.34	1418332.52
FI21	2640039.336	1418208.822
FI21	2640108.781	1418127.442
FI21	2640128.312	1418064.508
FI21	2640136.04	1417990.149
FI21	2640143.503	1417960.341
FI21	2640147.843	1417928.874
FI21	2640134.231	1417850.724
FI21	2640100.671	1417850.523
FI21	2640064.597	1417847.042
FI21	2640032.697	1417837.522
FI21	2639992.59	1417820.403
FI21	2639966.416	1417803.855
FI21	2639936.985	1417783.979
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FI21	2639747.801	1417714.085
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FI21	2639591.551	1417755.231
FI21	2639527.035	1417755.376
FI21	2639471.234	1417755.076
FI21	2639395.197	1417748.46
FI21	2639339.978	1417757.578
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FI21	2639251.447	1417718.772
FI21	2639224.885	1417695.856
FI21	2639200.926	1417669.814
FI21	2639172.801	1417632.314
FI21	2639148.322	1417607.314
FI21	2639128.142	1417597.962
FI21	2639105.614	1417587.522
FI21	2639035.301	1417568.252
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FI21	2638920.78	1417620.67
FI21	2638877.97	1417649.933
FI21	2638869.338	1417652.878
FI15	2638869.338	1417652.878
FI15	2638852.08	1417574.429
FI15	2638902.427	1417449.429
FI15	2639054.337	1417299.255
FI15	2639085.587	1417231.547
FI15	2639140.275	1416984.151
FI15	2639183.677	1416629.984
FI15	2639381.804	1416133.044
FI15	2639025.1	1416073.164
FI15	2638870.567	1416027.639
FI15	2638426.445	1416343.742
FI15	2638175.343	1416576.407
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FI15	2638159.718	1416802.101
FI15	2638128.468	1416890.643
FI15	2638107.634	1416989.601
FI15	2637946.176	1417351.233
FI15	2637797.738	1417583.004
FI15	2637727.426	1417609.045
FI15	2637472.218	1417619.462
FI15	2637408.292	1417703.057
FI15	2637414.989	1417704.71
FI15	2637454.572	1417700.543
FI15	2637508.218	1417691.689
FI15	2637534.78	1417685.96
FI15	2637571.239	1417682.835
FI15	2637612.385	1417692.731
FI15	2637641.03	1417703.147
FI15	2637684.78	1417736.481
FI15	2637712.589	1417751.549
FI15	2637766.03	1417761.481
FI15	2637789.989	1417755.752
FI15	2637838.426	1417728.668
FI15	2637889.989	1417701.585
FI15	2638012.905	1417684.918

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FI15             2638243.114      1417569.814
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FI15             2638284.884      1417505.454
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FI15             2638336.343      1417460.96
FI15             2638404.572      1417460.439
FI15             2638503.01       1417479.189
FI15             2638540.909      1417490.528
FI15             2638586.748      1417507.199
FI15             2638625.986      1417530.379
FI15             2638668.466      1417563.446
FI15             2638697.794      1417596.439
FI15             2638714.126      1417609.632
FI15             2638782.176      1417651.064
FI15             2638808.993      1417659.396
FI15             2638842.593      1417662.002
FI15             2638869.338      1417652.878

[SYMBOLS]
;;Gage           X-Coord          Y-Coord
;;-------------- ---------------- ----------------
```

```
[TITLE]
Fox Creek Basin - Future Conditions
UDFCD gauge 100 year 2 hr
12/2012- Reroute C25 from J-FX15 to J-FX03


[OPTIONS]
FLOW_UNITS           CFS
INFILTRATION         HORTON
FLOW_ROUTING         KINWAVE
START_DATE           07/26/2012
START_TIME           00:00:00
REPORT_START_DATE    07/26/2012
REPORT_START_TIME    00:00:00
END_DATE             07/27/2012
END_TIME             00:00:00
SWEEP_START          01/01
SWEEP_END            12/31
DRY_DAYS             0
REPORT_STEP          0:05:00
WET_STEP             0:05:00
DRY_STEP             0:05:00
ROUTING_STEP         300
ALLOW_PONDING        NO
INERTIAL_DAMPING     PARTIAL
VARIABLE_STEP        0.75
LENGTHENING_STEP     0
MIN_SURFAREA         0
NORMAL_FLOW_LIMITED  BOTH
SKIP_STEADY_STATE    NO
FORCE_MAIN_EQUATION  H-W
LINK_OFFSETS         DEPTH
MIN_SLOPE            0

[EVAPORATION]
;;Type          Parameters
;;------------- ----------
CONSTANT     0.0
DRY_ONLY     NO

[RAINGAGES]
;;               Rain      Time   Snow   Data
;;Name           Type      Intrvl Catch  Source
;;-------------- --------- ------ ------ ----------
rg100            INTENSITY 0:15   1.0    TIMESERIES SCS_24h_Type_II_2.8in
UDFCD100         VOLUME    0:05   1.0    TIMESERIES UDFCD100
UDFCD5           VOLUME    0:05   1.0    TIMESERIES Timeseries1

[SUBCATCHMENTS]
;;                                                Total    Pcnt.              Pcnt.    Curb
Snow
;;Name           Raingage         Outlet           Area     Imperv   Width    Slope    Length
Pack
;;-------------- ---------------- ---------------- -------- -------- -------- -------- --------
--------
FX23             UDFCD100         J-FX23           19.3372  51.1     3839.28  14.3777  0
FX26             UDFCD100         J-FX26           42.2461  36.8     3704.67  12.7569  0
FX24             UDFCD100         J-FX24           13.6269  53.7     2087.19  12.7636  0
FX07             UDFCD100         J-FX07           29.2352  62.5     3262.73  8.93729  0
FX09             UDFCD100         J-FX09           12.9159  62       2862.44  11.4588  0
FX28             UDFCD100         J-FX28           34.6402  36.5     4623.82  12.9849  0
FX29             UDFCD100         J-FX29           42.9268  39.5     4789.89  11.1443  0
FX17             UDFCD100         J-FX17           11.8216  60.9     1559.89  7.23127  0
FX11             UDFCD100         J-FX11           17.1267  86.7     3900.38  6.66602  0
FX31             UDFCD100         J-FX31           72.4922  40.5     7347.12  9.25533  0
FX34             UDFCD100         J-FX34           66.626   14.5     7280.36  23.3505  0
FX33             UDFCD100         J-FX33           28.7665  36.7     2763.21  8.12098  0
FX32             UDFCD100         J-FX32           38.7431  38.6     3086.51  6.71308  0
FX18             UDFCD100         J-FX18           42.9572  16.3     3036.66  6.42812  0
FX01             UDFCD100         J-FX01           20.5937  23.5     1383.48  0.954115 0
FX02             UDFCD100         J-FX02           36.7956  24.2     2929.34  0.976328 0
FX35             UDFCD100         J-FX35           28.839   35.1     3405.55  19.3449  0
FX06             UDFCD100         J-FX06           27.4877  58.4     2702.63  11.4999  0
FX25             UDFCD100         J-FX25           23.6665  44.8     2974.58  10.0855  0
FX22             UDFCD100         J-FX22           5.20904  59.3     2596.91  9.58834  0
FX30             UDFCD100         J-FX30           8.91947  24       2504.73  8.04078  0
FX10             UDFCD100         J-FX10           6.85816  96.8     1945.28  8.20449  0
FX15             UDFCD100         J-FX15           13.7869  71.2     2212     10.8499  0
FX03             UDFCD100         J-FX03           19.327   87.8     2239.04  1.71502  0
FX04             UDFCD100         J-FX04           11.0206  87.6     1499.88  1.46678  0
FX19             UDFCD100         J-FX19           13.0743  36       1592.03  9.67318  0
FX20             UDFCD100         J-FX20           12.8502  25.4     1943.28  10.3742  0
FX08             UDFCD100         J-FX08           6.30854  61.4     2287.04  14.8664  0
FX05             UDFCD100         J-FX05           4.89006  89.2     1228.33  4.2334   0
FX13             UDFCD100         J-FX13           6.62407  64.4     936.679  5.63694  0
FX16             UDFCD100         J-FX16           30.3133  78.6     3243.56  8.50918  0
FX12             UDFCD100         J-FX12           5.91329  77.2     1368.68  9.32289  0
FX14             UDFCD100         J-FX14           9.79572  64.2     2422.54  9.41159  0
FX21             UDFCD100         J-FX21           5.20904  26.8     2799.27  12.489   0
FX27             UDFCD100         J-FX27           39.9484  26.8     2999.71  11.5878  0
FX36             UDFCD100         J-FX36           8.0139   90.6     354.67   26.7854  0

[SUBAREAS]
;;Subcatchment   N-Imperv   N-Perv     S-Imperv   S-Perv     PctZero    RouteTo    PctRouted
;;-------------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
FX23             0.02       0.2        0.1        0.35       10         OUTLET
FX26             0.02       0.2        0.1        0.35       10         OUTLET
FX24             0.02       0.2        0.1        0.35       10         OUTLET
FX07             0.02       0.2        0.1        0.35       10         OUTLET
FX09             0.02       0.2        0.1        0.35       10         OUTLET
FX28             0.02       0.2        0.1        0.35       10         OUTLET
FX29             0.02       0.2        0.1        0.35       10         OUTLET
FX17             0.02       0.2        0.1        0.35       10         OUTLET
FX11             0.02       0.2        0.1        0.35       10         OUTLET
FX31             0.02       0.2        0.1        0.35       10         OUTLET
FX34             0.02       0.2        0.1        0.35       10         OUTLET
FX33             0.02       0.2        0.1        0.35       10         OUTLET
FX32             0.02       0.2        0.1        0.35       10         OUTLET
FX18             0.02       0.2        0.1        0.35       10         OUTLET
FX01             0.02       0.2        0.1        0.35       10         OUTLET
FX02             0.02       0.2        0.1        0.35       10         OUTLET
FX35             0.02       0.2        0.1        0.35       10         OUTLET
FX06             0.02       0.2        0.1        0.35       10         OUTLET
FX25             0.02       0.2        0.1        0.35       10         OUTLET
FX22             0.02       0.2        0.1        0.35       10         OUTLET
FX30             0.02       0.2        0.1        0.35       10         OUTLET
FX10             0.02       0.2        0.1        0.35       10         OUTLET
FX15             0.02       0.2        0.1        0.35       10         OUTLET
FX03             0.02       0.2        0.1        0.35       10         OUTLET
FX04             0.02       0.2        0.1        0.35       10         OUTLET
FX19             0.02       0.2        0.1        0.35       10         OUTLET
FX20             0.02       0.2        0.1        0.35       10         OUTLET
FX08             0.02       0.2        0.1        0.35       10         OUTLET
FX05             0.02       0.2        0.1        0.35       10         OUTLET
FX13             0.02       0.2        0.1        0.35       10         OUTLET
FX16             0.02       0.2        0.1        0.35       10         OUTLET
```

```
FX12             0.02       0.2        0.1        0.35       10         OUTLET
FX14             0.02       0.2        0.1        0.35       10         OUTLET
FX21             0.02       0.2        0.1        0.35       10         OUTLET
FX27             0.02       0.2        0.1        0.35       10         OUTLET
FX36             0.01       0.1        0.05       0.05       25         OUTLET

[INFILTRATION]
;;Subcatchment   MaxRate    MinRate    Decay      DryTime    MaxInfil
;;-------------- ---------- ---------- ---------- ---------- ----------
FX23             3          0.5        6.48       7          0
FX26             3          0.5        6.48       7          0
FX24             3          0.5        6.48       7          0
FX07             3          0.5        6.48       7          0
FX09             3          0.5        6.48       7          0
FX28             3          0.5        6.48       7          0
FX29             3          0.5        6.48       7          0
FX17             3          0.5        6.48       7          0
FX11             3          0.5        6.48       7          0
FX31             3          0.5        6.48       7          0
FX34             3          0.5        6.48       7          0
FX33             3          0.5        6.48       7          0
FX32             3          0.5        6.48       7          0
FX18             3          0.5        6.48       7          0
FX01             3          0.5        6.48       7          0
FX02             3          0.5        6.48       7          0
FX35             3          0.5        6.48       7          0
FX06             3          0.5        6.48       7          0
FX25             3          0.5        6.48       7          0
FX22             3          0.5        6.48       7          0
FX30             3          0.5        6.48       7          0
FX10             3          0.5        6.48       7          0
FX15             3          0.5        6.48       7          0
FX03             3          0.5        6.48       7          0
FX04             3          0.5        6.48       7          0
FX19             3          0.5        6.48       7          0
FX20             3          0.5        6.48       7          0
FX08             3          0.5        6.48       7          0
FX05             3          0.5        6.48       7          0
FX13             3          0.5        6.48       7          0
FX16             3          0.5        6.48       7          0
FX12             3          0.5        6.48       7          0
FX14             3          0.5        6.48       7          0
FX21             3          0.5        6.48       7          0
FX27             3          0.5        6.48       7          0
FX36             3          0.5        4          7          0

[JUNCTIONS]
;;               Invert     Max.       Init.      Surcharge  Ponded
;;Name           Elev.      Depth      Depth      Depth      Area
;;-------------- ---------- ---------- ---------- ---------- ----------
J-FX31           6958       0          0          0          0
J-FX32           6958       0          0          0          0
J-FX28           6864       0          0          0          0
J-FX27           6865       0          0          0          0
J-FX29           6980       0          0          0          0
J-FX34           7150       0          0          0          0
J-FX33           7066       0          0          0          0
J-FX35           7154       0          0          0          0
J-FX18           6834       0          0          0          0
J-FX14           6752       0          0          0          0
J-FX07           6742       0          0          0          0
J-FX08           6744       0          0          0          0
J-FX11           6748       0          0          0          0
J-FX24           6894       0          0          0          0
J-FX23           6904       0          0          0          0
J-FX19           6792       0          0          0          0
J-FX20           6791       0          0          0          0
J-FX22           6898       0          0          0          0
J-FX02           6728       0          0          0          0
J-FX26           6902       0          0          0          0
J-FX30           6886       0          0          0          0
J-FX21           6904       0          0          0          0
J-FX25           6842       0          0          0          0
J-FX06           6740       0          0          0          0
J3               6834       0          0          0          0
J-FX17           6856       0          0          0          0
J-FX13           6830       0          0          0          0
J-FX05           6720       0          0          0          0
J-FX16           6766       0          0          0          0
J-FX15           6758       0          0          0          0
J-FX10           6744       0          0          0          0
J-FX12           6751       0          0          0          0
J-FX03           6736       0          0          0          0
J-FX04           6730       0          0          0          0
J-FX01           6721       0          0          0          0
J1               6948       0          0          0          0
J2               6761       0          0          0          0
J-FX09           6749       0          0          0          0
J4               6848       0          0          0          0
J5               6794       0          0          0          0
J6               7052       0          0          0          0
J7               7038       0          0          0          0
J-FX36           6714       0          0          0          0
J8               6720       0          0          0          0
J9               6742       0          0          0          0

[OUTFALLS]
;;               Invert     Outfall    Stage/Table      Tide
;;Name           Elev.      Type       Time Series      Gate
;;-------------- ---------- ---------- ---------------- ----
OF1              6710       FREE                         NO

[CONDUITS]
;;               Inlet            Outlet                      Manning    Inlet      Outlet
Init.      Max.
;;Name           Node             Node             Length     N          Offset     Offset
Flow       Flow
;;-------------- ---------------- ---------------- ---------- ---------- ---------- ----------
---------- ----------
C1               J-FX02           J-FX01           1672.93    0.01       0          0
0          0
C2               J-FX01           J8               97.94      0.01       0          0
0          0
C3               J-FX25           J-FX06           829.28     0.01       0          0
0          0
C4               J-FX26           J-FX25           986.39     0.01       0          0
0          0
C5               J-FX34           J-FX33           1159.96    0.01       0          0
0          0
C6               J-FX35           J6               1278.32    0.01       0          0
0          0
C7               J-FX29           J1               333.87     0.01       0          0
0          0
C8               J-FX31           J1               145.13     0.01       0          0
0          0
```

```
C9              J-FX32          J1              146.91     0.01       0          0
0          0
C10             J-FX27          J-FX28          21.54      0.01       0          0
0          0
C11             J-FX19          J-FX20          31.6       0.01       0          0
0          0
C12             J-FX21          J3              351.22     0.01       0          0
0          0
C15             J2              J-FX11          761.21     0.01       0          0
0          0
C14             J-FX22          J2              636.63     0.01       0          0
0          0
C13             J-FX11          J-FX08          228.19     0.01       0          0
0          0
C16             J-FX08          J-FX07          249.75     0.01       0          0
0          0
C17             J-FX10          J9              111.85     0.01       0          0
0          0
C18             J9              J-FX05          791.52     0.01       0          0
0          0
C19             J-FX04          J-FX05          451.99     0.01       0          0
0          0
C20             J-FX15          J-FX14          394.66     0.01       0          0
0          0
C21             J-FX14          J-FX12          95         0.01       0          0
0          0
C22             J-FX03          J-FX04          1136.38    0.01       0          0
0          0
C23             J-FX13          J-FX12          710.56     0.01       0          0
0          0
C24             J-FX12          J-FX10          954.37     0.01       0          0
0          0
C25             J-FX16          J-FX03          2090.58    0.01       0          0
0          0
C26             J-FX30          J-FX19          1029.27    0.01       0          0
0          0
C27             J-FX17          J-FX18          372.64     0.01       0          0
0          0
C28             J-FX18          J5              955.16     0.01       0          0
0          0
C29             J-FX20          J2              437.73     0.01       0          0
0          0
C31             J-FX28          J3              545.83     0.01       0          0
0          0
C32             J3              J-FX20          701.97     0.01       0          0
0          0
C33             J1              J-FX27          1424.44    0.01       0          0
0          0
C34             J-FX24          J4              207.15     0.01       0          0
0          0
C35             J-FX23          J4              288.73     0.01       0          0
0          0
C36             J4              J-FX05          1537.98    0.01       0          0
0          0
C37             J-FX09          J-FX11          16.47      0.01       0          0
0          0
C38             J6              J-FX31          1383.29    0.01       0          0
0          0
C39             J-FX06          OF1             327.92     0.01       0          0
0          0
C30             J-FX36          OF1             930.85     0.01       0          0
0          0
C41             J5              J-FX11          716.41     0.01       0          0
0          0
C42             J-FX33          J7              815.51     0.01       0          0
0          0
C43             J7              J-FX32          1076.76    0.01       0          0
0          0
C40             J8              J-FX36          907.8      0.01       0          0
0          0
C44             J-FX05          J8              15.2       0.01       0          0
0          0
C45             J-FX07          J9              13.33      0.01       0          0
0          0
```

[XSECTIONS]

```
;;Link           Shape        Geom1            Geom2      Geom3      Geom4      Barrels
;;-------------- ------------ ---------------- ---------- ---------- ---------- ----------
C1               IRREGULAR    largeriver       0          0          0          1
C2               IRREGULAR    largeriver       0          0          0          1
C3               IRREGULAR    street-overflow  0          0          0          1
C4               IRREGULAR    channel-overflow2n 0          0          0          1
C5               IRREGULAR    channel-main1a   0          0          0          1
C6               IRREGULAR    channel-main1a   0          0          0          1
C7               IRREGULAR    channel-overflow1a 0          0          0          1
C8               IRREGULAR    channel-overflow1a 0          0          0          1
C9               IRREGULAR    channel-overflow1a 0          0          0          1
C10              DUMMY        0                0          0          0          1
C11              DUMMY        0                0          0          0          1
C12              IRREGULAR    channel-main1a   0          0          0          1
C15              IRREGULAR    channel-overflow2n 0          0          0          1
C14              IRREGULAR    channel-overflow1a 0          0          0          1
C13              IRREGULAR    street-overflow  0          0          0          1
C16              IRREGULAR    street-overflow  0          0          0          1
C17              IRREGULAR    street-overflow  0          0          0          1
C18              IRREGULAR    channel-overflow2n 0          0          0          1
C19              IRREGULAR    street-overflow  0          0          0          1
C20              IRREGULAR    street-overflow  0          0          0          1
C21              IRREGULAR    street-overflow  0          0          0          1
C22              IRREGULAR    street-overflow  0          0          0          1
C23              IRREGULAR    street-overflow  0          0          0          1
C24              IRREGULAR    street-overflow  0          0          0          1
C25              IRREGULAR    street-overflow  0          0          0          1
C26              IRREGULAR    channel-overflow1a 0          0          0          1
C27              IRREGULAR    street-main      0          0          0          1
C28              IRREGULAR    street-overflow  0          0          0          1
C29              IRREGULAR    Channel-overflow2a 0          0          0          1
C31              IRREGULAR    Channel-overflow2a 0          0          0          1
C32              IRREGULAR    Channel-overflow2a 0          0          0          1
C33              IRREGULAR    Channel-overflow2a 0          0          0          1
C34              IRREGULAR    channel-overflow1a 0          0          0          1
C35              IRREGULAR    channel-overflow1a 0          0          0          1
C36              IRREGULAR    Channel-overflow2a 0          0          0          1
C37              DUMMY        0                0          0          0          1
C38              IRREGULAR    channel-main1a   0          0          0          1
C39              DUMMY        0                0          0          0          1
C30              IRREGULAR    largeriver       0          0          0          1
C41              IRREGULAR    street-overflow  0          0          0          1
C42              IRREGULAR    channel-main1a   0          0          0          1
C43              IRREGULAR    channel-overflow1a 0          0          0          1
C40              IRREGULAR    largeriver       0          0          0          1
C44              DUMMY        0                0          0          0          1
C45              DUMMY        0                0          0          0          1
```

[TRANSECTS]

```
NC 0.0625   0.0625   0.0375
X1 channel-main1st  8        4        8        0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        8
GR 0.5      8        1.5      12       5.5      28

NC 0.0625   0.0625   0.0375
X1 channel-main2nd  8        4        12       0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        12
GR 0.5      12       1.5      16       5.5      32

NC 0.0625   0.0625   0.0375
X1 channel-main3rd  8        4        16       0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        16
GR 0.5      16       1.5      20       5.5      36

NC 0.0625   0.0625   0.0375
X1 channel-overflow1s 8        20       28       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        28
GR 1        28       2        48       6        128

NC 0.0625   0.0625   0.0375
X1 channel-overflow2n 8        20       35       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        35
GR 1        35       2        55       6        135

NC 0.0625   0.0625   0.0375
X1 channel-overflow3r 8        20       50       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        60
GR 1        60       2        80       6        160

NC 0.0625   0.0625   0.01875
X1 street-main      9        6        30.5     0.0       0.0       0.0      0.0      0.0
GR 7        -18      1        0        0        3        1        6        1.25     18.5
GR 1        30.5     0        33.5     1        36.5     7        54.5

NC 0.0625   0.0625   0.01875
X1 street-overflow  11       13       53       0.0       0.0       0.0      0.0      0.0
GR 3        -20      2        0        0        6        0        7        2        13
GR 2.4      33       2        53       0        59       0        60       2        66
GR 3        86

NC 0.0625   0.0625   0.035
X1 largeriver       12       21       41       0.0       0.0       0.0      0.0      0.0
GR 10       -45      7        -45      5        -5       4        15       2        21
GR 0        21       0        41       2        41       4        47       5        67
GR 7        107      10       107

NC 0.122    0.122    0.073
X1 channel-main1a   8        4        8        0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        8
GR 0.5      8        1.5      12       5.5      28

NC 0.122    0.122    0.073
X1 channel-overflow1a 8        20       28       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        28
GR 1        28       2        48       6        128

NC 0.122    0.122    0.073
X1 Channel-overflow2a 8        20       35       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        35
GR 1        35       2        55       6        135
```

```
[LOSSES]
;;Link           Inlet      Outlet     Average    Flap Gate
;;-------------- ---------- ---------- ---------- ----------

[TIMESERIES]
;;Name           Date       Time       Value
;;-------------- ---------- ---------- ----------
;SCS_24h_Type_II_2.8in design storm, total rainfall = 2.8 in, rain units = in/hr.
SCS_24h_Type_II_2.8in            0:00       0
SCS_24h_Type_II_2.8in            0:15       0.03696
SCS_24h_Type_II_2.8in            0:30       0.03696
SCS_24h_Type_II_2.8in            0:45       0.03808
SCS_24h_Type_II_2.8in            1:00       0.03696
SCS_24h_Type_II_2.8in            1:15       0.03696
SCS_24h_Type_II_2.8in            1:30       0.03808
SCS_24h_Type_II_2.8in            1:45       0.03696
SCS_24h_Type_II_2.8in            2:00       0.03696
SCS_24h_Type_II_2.8in            2:15       0.03808
SCS_24h_Type_II_2.8in            2:30       0.03696
SCS_24h_Type_II_2.8in            2:45       0.03696
SCS_24h_Type_II_2.8in            3:00       0.03808
SCS_24h_Type_II_2.8in            3:15       0.03696
SCS_24h_Type_II_2.8in            3:30       0.03696
SCS_24h_Type_II_2.8in            3:45       0.03808
SCS_24h_Type_II_2.8in            4:00       0.03696
SCS_24h_Type_II_2.8in            4:15       0.03696
SCS_24h_Type_II_2.8in            4:30       0.03808
SCS_24h_Type_II_2.8in            4:45       0.03696
SCS_24h_Type_II_2.8in            5:00       0.03696
SCS_24h_Type_II_2.8in            5:15       0.03808
SCS_24h_Type_II_2.8in            5:30       0.03696
SCS_24h_Type_II_2.8in            5:45       0.03696
SCS_24h_Type_II_2.8in            6:00       0.03808
SCS_24h_Type_II_2.8in            6:15       0.03696
SCS_24h_Type_II_2.8in            6:30       0.03696
SCS_24h_Type_II_2.8in            6:45       0.03808
SCS_24h_Type_II_2.8in            7:00       0.03696
SCS_24h_Type_II_2.8in            7:15       0.03696
SCS_24h_Type_II_2.8in            7:30       0.03808
SCS_24h_Type_II_2.8in            7:45       0.07392
SCS_24h_Type_II_2.8in            8:00       0.07504
SCS_24h_Type_II_2.8in            8:15       0.07504
SCS_24h_Type_II_2.8in            8:30       0.07392
SCS_24h_Type_II_2.8in            8:45       0.07504
SCS_24h_Type_II_2.8in            9:00       0.07504
SCS_24h_Type_II_2.8in            9:15       0.112
SCS_24h_Type_II_2.8in            9:30       0.112
SCS_24h_Type_II_2.8in            9:45       0.112
SCS_24h_Type_II_2.8in            10:00      0.112
SCS_24h_Type_II_2.8in            10:15      0.112
SCS_24h_Type_II_2.8in            10:30      0.112
SCS_24h_Type_II_2.8in            10:45      0.224
SCS_24h_Type_II_2.8in            11:00      0.224
SCS_24h_Type_II_2.8in            11:15      0.336
SCS_24h_Type_II_2.8in            11:30      0.56
SCS_24h_Type_II_2.8in            11:45      0.672
SCS_24h_Type_II_2.8in            12:00      1.344
SCS_24h_Type_II_2.8in            12:15      1.344
SCS_24h_Type_II_2.8in            12:30      0.672
SCS_24h_Type_II_2.8in            12:45      0.56
SCS_24h_Type_II_2.8in            13:00      0.336
SCS_24h_Type_II_2.8in            13:15      0.224
SCS_24h_Type_II_2.8in            13:30      0.224
```

```
SCS_24h_Type_II_2.8in           13:45      0.112
SCS_24h_Type_II_2.8in           14:00      0.112
SCS_24h_Type_II_2.8in           14:15      0.112
SCS_24h_Type_II_2.8in           14:30      0.112
SCS_24h_Type_II_2.8in           14:45      0.112
SCS_24h_Type_II_2.8in           15:00      0.112
SCS_24h_Type_II_2.8in           15:15      0.07392
SCS_24h_Type_II_2.8in           15:30      0.07504
SCS_24h_Type_II_2.8in           15:45      0.07504
SCS_24h_Type_II_2.8in           16:00      0.07392
SCS_24h_Type_II_2.8in           16:15      0.07504
SCS_24h_Type_II_2.8in           16:30      0.07504
SCS_24h_Type_II_2.8in           16:45      0.03696
SCS_24h_Type_II_2.8in           17:00      0.03696
SCS_24h_Type_II_2.8in           17:15      0.03808
SCS_24h_Type_II_2.8in           17:30      0.03696
SCS_24h_Type_II_2.8in           17:45      0.03696
SCS_24h_Type_II_2.8in           18:00      0.03808
SCS_24h_Type_II_2.8in           18:15      0.03696
SCS_24h_Type_II_2.8in           18:30      0.03696
SCS_24h_Type_II_2.8in           18:45      0.03808
SCS_24h_Type_II_2.8in           19:00      0.03696
SCS_24h_Type_II_2.8in           19:15      0.03696
SCS_24h_Type_II_2.8in           19:30      0.03808
SCS_24h_Type_II_2.8in           19:45      0.03696
SCS_24h_Type_II_2.8in           20:00      0.03696
SCS_24h_Type_II_2.8in           20:15      0.03808
SCS_24h_Type_II_2.8in           20:30      0.03696
SCS_24h_Type_II_2.8in           20:45      0.03696
SCS_24h_Type_II_2.8in           21:00      0.03808
SCS_24h_Type_II_2.8in           21:15      0.03696
SCS_24h_Type_II_2.8in           21:30      0.03696
SCS_24h_Type_II_2.8in           21:45      0.03808
SCS_24h_Type_II_2.8in           22:00      0.03696
SCS_24h_Type_II_2.8in           22:15      0.03696
SCS_24h_Type_II_2.8in           22:30      0.03808
SCS_24h_Type_II_2.8in           22:45      0.03696
SCS_24h_Type_II_2.8in           23:00      0.03696
SCS_24h_Type_II_2.8in           23:15      0.03808
SCS_24h_Type_II_2.8in           23:30      0.03696
SCS_24h_Type_II_2.8in           23:45      0.03696
SCS_24h_Type_II_2.8in           24:00      0.03808

UDFCD100                    0:05       0.0146
UDFCD100                    0:10       0.0438
UDFCD100                    0:15       0.06716
UDFCD100                    0:20       0.1168
UDFCD100                    0:25       0.2044
UDFCD100                    0:30       0.365
UDFCD100                    0:35       0.2044
UDFCD100                    0:40       0.1168
UDFCD100                    0:45       0.09052
UDFCD100                    0:50       0.073
UDFCD100                    0:55       0.0584
UDFCD100                    1:00       0.0584
UDFCD100                    1:05       0.0584
UDFCD100                    1:10       0.0292
UDFCD100                    1:15       0.0292
UDFCD100                    1:20       0.01752
UDFCD100                    1:25       0.01752
UDFCD100                    1:30       0.01752
UDFCD100                    1:35       0.01752
UDFCD100                    1:40       0.01752
UDFCD100                    1:45       0.01752
UDFCD100                    1:50       0.01752
UDFCD100                    1:55       0.01752
UDFCD100                    2:00       0.01752
UDFCD100                    2:05       0

;SCS_24h_Type_II_1.7in design storm, total rainfall = 1.7 in, rain units = in.
SCS_24h_Type_II_1.7in           0:00       0.00468
SCS_24h_Type_II_1.7in           0:15       0.00468
SCS_24h_Type_II_1.7in           0:30       0.00468
SCS_24h_Type_II_1.7in           0:45       0.00468
SCS_24h_Type_II_1.7in           1:00       0.00468
SCS_24h_Type_II_1.7in           1:15       0.00468
SCS_24h_Type_II_1.7in           1:30       0.00468
SCS_24h_Type_II_1.7in           1:45       0.00468
SCS_24h_Type_II_1.7in           2:00       0.00552
SCS_24h_Type_II_1.7in           2:15       0.00552
SCS_24h_Type_II_1.7in           2:30       0.00552
SCS_24h_Type_II_1.7in           2:45       0.00552
SCS_24h_Type_II_1.7in           3:00       0.00552
SCS_24h_Type_II_1.7in           3:15       0.00552
SCS_24h_Type_II_1.7in           3:30       0.00552
SCS_24h_Type_II_1.7in           3:45       0.00552
SCS_24h_Type_II_1.7in           4:00       0.0068
SCS_24h_Type_II_1.7in           4:15       0.0068
SCS_24h_Type_II_1.7in           4:30       0.0068
SCS_24h_Type_II_1.7in           4:45       0.0068
SCS_24h_Type_II_1.7in           5:00       0.0068
SCS_24h_Type_II_1.7in           5:15       0.0068
SCS_24h_Type_II_1.7in           5:30       0.0068
SCS_24h_Type_II_1.7in           5:45       0.0068
SCS_24h_Type_II_1.7in           6:00       0.00765
SCS_24h_Type_II_1.7in           6:15       0.00765
SCS_24h_Type_II_1.7in           6:30       0.00765
SCS_24h_Type_II_1.7in           6:45       0.00765
SCS_24h_Type_II_1.7in           7:00       0.00935
SCS_24h_Type_II_1.7in           7:15       0.00935
SCS_24h_Type_II_1.7in           7:30       0.00935
SCS_24h_Type_II_1.7in           7:45       0.00935
SCS_24h_Type_II_1.7in           8:00       0.0111
SCS_24h_Type_II_1.7in           8:15       0.0111
SCS_24h_Type_II_1.7in           8:30       0.0119
SCS_24h_Type_II_1.7in           8:45       0.0119
SCS_24h_Type_II_1.7in           9:00       0.0136
SCS_24h_Type_II_1.7in           9:15       0.0136
SCS_24h_Type_II_1.7in           9:30       0.0153
SCS_24h_Type_II_1.7in           9:45       0.0153
SCS_24h_Type_II_1.7in           10:00      0.0196
SCS_24h_Type_II_1.7in           10:15      0.0196
SCS_24h_Type_II_1.7in           10:30      0.0264
SCS_24h_Type_II_1.7in           10:45      0.0264
SCS_24h_Type_II_1.7in           11:00      0.0408
SCS_24h_Type_II_1.7in           11:15      0.0408
SCS_24h_Type_II_1.7in           11:30      0.126
SCS_24h_Type_II_1.7in           11:45      0.52
SCS_24h_Type_II_1.7in           12:00      0.0612
SCS_24h_Type_II_1.7in           12:15      0.0612
SCS_24h_Type_II_1.7in           12:30      0.0314
SCS_24h_Type_II_1.7in           12:45      0.0314
SCS_24h_Type_II_1.7in           13:00      0.023
SCS_24h_Type_II_1.7in           13:15      0.023
SCS_24h_Type_II_1.7in           13:30      0.0178
SCS_24h_Type_II_1.7in           13:45      0.0178
```

```
SCS_24h_Type_II_1.7in          14:00      0.0127
SCS_24h_Type_II_1.7in          14:15      0.0127
SCS_24h_Type_II_1.7in          14:30      0.0127
SCS_24h_Type_II_1.7in          14:45      0.0127
SCS_24h_Type_II_1.7in          15:00      0.0127
SCS_24h_Type_II_1.7in          15:15      0.0127
SCS_24h_Type_II_1.7in          15:30      0.0127
SCS_24h_Type_II_1.7in          15:45      0.0127
SCS_24h_Type_II_1.7in          16:00      0.00765
SCS_24h_Type_II_1.7in          16:15      0.00765
SCS_24h_Type_II_1.7in          16:30      0.00765
SCS_24h_Type_II_1.7in          16:45      0.00765
SCS_24h_Type_II_1.7in          17:00      0.00765
SCS_24h_Type_II_1.7in          17:15      0.00765
SCS_24h_Type_II_1.7in          17:30      0.00765
SCS_24h_Type_II_1.7in          17:45      0.00765
SCS_24h_Type_II_1.7in          18:00      0.00765
SCS_24h_Type_II_1.7in          18:15      0.00765
SCS_24h_Type_II_1.7in          18:30      0.00765
SCS_24h_Type_II_1.7in          18:45      0.00765
SCS_24h_Type_II_1.7in          19:00      0.00765
SCS_24h_Type_II_1.7in          19:15      0.00765
SCS_24h_Type_II_1.7in          19:30      0.00765
SCS_24h_Type_II_1.7in          19:45      0.00765
SCS_24h_Type_II_1.7in          20:00      0.0051
SCS_24h_Type_II_1.7in          20:15      0.0051
SCS_24h_Type_II_1.7in          20:30      0.0051
SCS_24h_Type_II_1.7in          20:45      0.0051
SCS_24h_Type_II_1.7in          21:00      0.0051
SCS_24h_Type_II_1.7in          21:15      0.0051
SCS_24h_Type_II_1.7in          21:30      0.0051
SCS_24h_Type_II_1.7in          21:45      0.0051
SCS_24h_Type_II_1.7in          22:00      0.0051
SCS_24h_Type_II_1.7in          22:15      0.0051
SCS_24h_Type_II_1.7in          22:30      0.0051
SCS_24h_Type_II_1.7in          22:45      0.0051
SCS_24h_Type_II_1.7in          23:00      0.0051
SCS_24h_Type_II_1.7in          23:15      0.0051
SCS_24h_Type_II_1.7in          23:30      0.0051
SCS_24h_Type_II_1.7in          23:45      0.0051
SCS_24h_Type_II_1.7in          24:00      0

;SCS_24h_Type_II_2.4in design storm, total rainfall = 2.4 in, rain units = in.
SCS_24h_Type_II_2.4in          0:00       0.0066
SCS_24h_Type_II_2.4in          0:15       0.0066
SCS_24h_Type_II_2.4in          0:30       0.0066
SCS_24h_Type_II_2.4in          0:45       0.0066
SCS_24h_Type_II_2.4in          1:00       0.0066
SCS_24h_Type_II_2.4in          1:15       0.0066
SCS_24h_Type_II_2.4in          1:30       0.0066
SCS_24h_Type_II_2.4in          1:45       0.0066
SCS_24h_Type_II_2.4in          2:00       0.0078
SCS_24h_Type_II_2.4in          2:15       0.0078
SCS_24h_Type_II_2.4in          2:30       0.0078
SCS_24h_Type_II_2.4in          2:45       0.0078
SCS_24h_Type_II_2.4in          3:00       0.0078
SCS_24h_Type_II_2.4in          3:15       0.0078
SCS_24h_Type_II_2.4in          3:30       0.0078
SCS_24h_Type_II_2.4in          3:45       0.0078
SCS_24h_Type_II_2.4in          4:00       0.0096
SCS_24h_Type_II_2.4in          4:15       0.0096
SCS_24h_Type_II_2.4in          4:30       0.0096
SCS_24h_Type_II_2.4in          4:45       0.0096
SCS_24h_Type_II_2.4in          5:00       0.0096
SCS_24h_Type_II_2.4in          5:15       0.0096
SCS_24h_Type_II_2.4in          5:30       0.0096
SCS_24h_Type_II_2.4in          5:45       0.0096
SCS_24h_Type_II_2.4in          6:00       0.0108
SCS_24h_Type_II_2.4in          6:15       0.0108
SCS_24h_Type_II_2.4in          6:30       0.0108
SCS_24h_Type_II_2.4in          6:45       0.0108
SCS_24h_Type_II_2.4in          7:00       0.0132
SCS_24h_Type_II_2.4in          7:15       0.0132
SCS_24h_Type_II_2.4in          7:30       0.0132
SCS_24h_Type_II_2.4in          7:45       0.0132
SCS_24h_Type_II_2.4in          8:00       0.0156
SCS_24h_Type_II_2.4in          8:15       0.0156
SCS_24h_Type_II_2.4in          8:30       0.0168
SCS_24h_Type_II_2.4in          8:45       0.0168
SCS_24h_Type_II_2.4in          9:00       0.0192
SCS_24h_Type_II_2.4in          9:15       0.0192
SCS_24h_Type_II_2.4in          9:30       0.0216
SCS_24h_Type_II_2.4in          9:45       0.0216
SCS_24h_Type_II_2.4in          10:00      0.0276
SCS_24h_Type_II_2.4in          10:15      0.0276
SCS_24h_Type_II_2.4in          10:30      0.0372
SCS_24h_Type_II_2.4in          10:45      0.0372
SCS_24h_Type_II_2.4in          11:00      0.0576
SCS_24h_Type_II_2.4in          11:15      0.0576
SCS_24h_Type_II_2.4in          11:30      0.178
SCS_24h_Type_II_2.4in          11:45      0.734
SCS_24h_Type_II_2.4in          12:00      0.0864
SCS_24h_Type_II_2.4in          12:15      0.0864
SCS_24h_Type_II_2.4in          12:30      0.0444
SCS_24h_Type_II_2.4in          12:45      0.0444
SCS_24h_Type_II_2.4in          13:00      0.0324
SCS_24h_Type_II_2.4in          13:15      0.0324
SCS_24h_Type_II_2.4in          13:30      0.0252
SCS_24h_Type_II_2.4in          13:45      0.0252
SCS_24h_Type_II_2.4in          14:00      0.018
SCS_24h_Type_II_2.4in          14:15      0.018
SCS_24h_Type_II_2.4in          14:30      0.018
SCS_24h_Type_II_2.4in          14:45      0.018
SCS_24h_Type_II_2.4in          15:00      0.018
SCS_24h_Type_II_2.4in          15:15      0.018
SCS_24h_Type_II_2.4in          15:30      0.018
SCS_24h_Type_II_2.4in          15:45      0.018
SCS_24h_Type_II_2.4in          16:00      0.0108
SCS_24h_Type_II_2.4in          16:15      0.0108
SCS_24h_Type_II_2.4in          16:30      0.0108
SCS_24h_Type_II_2.4in          16:45      0.0108
SCS_24h_Type_II_2.4in          17:00      0.0108
SCS_24h_Type_II_2.4in          17:15      0.0108
SCS_24h_Type_II_2.4in          17:30      0.0108
SCS_24h_Type_II_2.4in          17:45      0.0108
SCS_24h_Type_II_2.4in          18:00      0.0108
SCS_24h_Type_II_2.4in          18:15      0.0108
SCS_24h_Type_II_2.4in          18:30      0.0108
SCS_24h_Type_II_2.4in          18:45      0.0108
SCS_24h_Type_II_2.4in          19:00      0.0108
SCS_24h_Type_II_2.4in          19:15      0.0108
SCS_24h_Type_II_2.4in          19:30      0.0108
SCS_24h_Type_II_2.4in          19:45      0.0108
SCS_24h_Type_II_2.4in          20:00      0.0072
SCS_24h_Type_II_2.4in          20:15      0.0072
SCS_24h_Type_II_2.4in          20:30      0.0072
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SCS_24h_Type_II_2.4in          20:45      0.0072
SCS_24h_Type_II_2.4in          21:00      0.0072
SCS_24h_Type_II_2.4in          21:15      0.0072
SCS_24h_Type_II_2.4in          21:30      0.0072
SCS_24h_Type_II_2.4in          21:45      0.0072
SCS_24h_Type_II_2.4in          22:00      0.0072
SCS_24h_Type_II_2.4in          22:15      0.0072
SCS_24h_Type_II_2.4in          22:30      0.0072
SCS_24h_Type_II_2.4in          22:45      0.0072
SCS_24h_Type_II_2.4in          23:00      0.0072
SCS_24h_Type_II_2.4in          23:15      0.0072
SCS_24h_Type_II_2.4in          23:30      0.0072
SCS_24h_Type_II_2.4in          23:45      0.0072
SCS_24h_Type_II_2.4in          24:00      0

Timeseries1                0:05       0.0156
Timeseries1                0:10       0.02886
Timeseries1                0:15       0.06786
Timeseries1                0:20       0.11934
Timeseries1                0:25       0.195
Timeseries1                0:30       0.1014
Timeseries1                0:35       0.04524
Timeseries1                0:40       0.03432
Timeseries1                0:45       0.02808
Timeseries1                0:50       0.02808
Timeseries1                0:55       0.0234
Timeseries1                1:00       0.0234
Timeseries1                1:05       0.0234
Timeseries1                1:10       0.0234
Timeseries1                1:15       0.0195
Timeseries1                1:20       0.01716
Timeseries1                1:25       0.01716
Timeseries1                1:30       0.01716
Timeseries1                1:35       0.01716
Timeseries1                1:40       0.0117
Timeseries1                1:45       0.0117
Timeseries1                1:50       0.0117
Timeseries1                1:55       0.0117
Timeseries1                2:00       0.01014
Timeseries1                2:05       0


[REPORT]
INPUT      YES
CONTROLS   NO
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]

[MAP]
DIMENSIONS       2628745.58320124 1415102.65097642 2640836.03856872 1422682.91867036
UNITS            Feet

[COORDINATES]
;;Node           X-Coord          Y-Coord
;;-------------- ---------------- ----------------
J-FX31           2635042.643      1419172.738
J-FX32           2635024.414      1419187.061
J-FX28           2633778.147      1418362.582
J-FX27           2633770.508      1418382.721
J-FX29           2635281.68       1419002.403
J-FX34           2636775.163      1421522.296
J-FX33           2635784.799      1420918.598
J-FX35           2637292.681      1420323.91
J-FX18           2632800.269      1417649.106
J-FX14           2631085.022      1417647.033
J-FX07           2631086.872      1418798.556
J-FX08           2631302.41       1418672.427
J-FX11           2631443.035      1418492.74
J-FX24           2632220.379      1419639.767
J-FX23           2632418.296      1419471.798
J-FX19           2632587.87       1418117.966
J-FX20           2632579.19       1418148.347
J-FX22           2632500.718      1418622.349
J-FX02           2629528          1417865.124
J-FX26           2632661.627      1421247.49
J-FX30           2633537.675      1417748.791
J-FX21           2633270.14       1418538.259
J-FX25           2631691.581      1421069.161
J-FX06           2630882.466      1420887.738
J3               2633261.32       1418187.183
J-FX17           2632531.948      1417390.573
J-FX13           2631701.219      1417429.636
J-FX05           2630648.588      1419204.458
J-FX16           2631082.071      1415959.087
J-FX15           2631071.084      1417252.656
J-FX10           2631130.023      1418693.614
J-FX12           2631071.81       1417741.104
J-FX03           2630603.202      1417617.083
J-FX04           2630634.058      1418752.942
J-FX01           2630579.624      1419133.104
J1               2634952.655      1419058.888
J2               2632144.154      1418196.493
J-FX09           2631448.47       1418508.281
J4               2632130.189      1419453.306
J5               2631887.813      1417931.208
J6               2636053.498      1420010.509
J7               2635462.802      1420169.427
J-FX36           2630825.767      1420045.201
J8               2630636.098      1419213.114
J9               2631075.66       1418791.352
OF1              2630557.251      1420845.975

[VERTICES]
;;Link           X-Coord          Y-Coord
;;-------------- ---------------- ----------------
C1               2629714.016      1418155.968
C1               2629909.933      1418547.801
C1               2630208.067      1418803.345
C1               2630497.683      1419058.888
C14              2632558.436      1418554.917
C18              2630943.215      1418817.785
C18              2630944.668      1418928.223
C18              2630654.041      1418950.02
C19              2630633.697      1418947.114
C23              2631377.46       1417649.7
C25              2631020.223      1416251.578
C25              2630556.038      1416292.465
C26              2633154.258      1417865.998
C26              2632902.896      1418033.573
C26              2632707.392      1418084.776
C32              2632954.099      1418089.431
C33              2634764.841      1418890.067
C33              2634541.407      1418787.661
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C33	2634401.761	1418815.59
C33	2634169.018	1418554.917
C36	2631078.19	1419332.279
C36	2631031.642	1419299.695
C36	2630943.199	1419285.731
C36	2630798.899	1419183.324
C36	2630710.456	1419178.669
C38	2635633.714	1419890.571
C38	2635279.896	1419599.72
C38	2635204.934	1419473.785
C30	2630745.871	1420273.124
C30	2630756.666	1420442.252
C30	2630720.682	1420622.175
C30	2630735.076	1420751.719
C30	2630695.493	1420794.901
C43	2635213.93	1419596.721
C43	2635138.968	1419401.822
C40	2630756.666	1419366.312
C40	2630821.439	1419513.849
C40	2630857.423	1419621.803
C40	2630789.053	1419819.718

[Polygons]

;;Subcatchment	X-Coord	Y-Coord
FX23	2633450.309	1420288.686
FX23	2634173.839	1420250.206
FX23	2633876.416	1420121.239
FX23	2633669.311	1419906.406
FX23	2633537.938	1419805.945
FX23	2633331.433	1419658.941
FX23	2633281.525	1419623.413
FX23	2633264.632	1419606.25
FX23	2633182.6	1419538.542
FX23	2633066.715	1419508.594
FX23	2632892.236	1419459.115
FX23	2632800.089	1419433.869
FX23	2632770.574	1419322.894
FX23	2632705.47	1419244.769
FX23	2632596.963	1419147.113
FX23	2632593.708	1419024.5
FX23	2632535.114	1419023.415
FX23	2632473.265	1418994.118
FX23	2632396.225	1418970.246
FX23	2632321.915	1419015.958
FX23	2632321.87	1419015.953
FX23	2632321.694	1419015.932
FX23	2632314.216	1419091.381
FX23	2632312.109	1419177.745
FX23	2632319.615	1419215.233
FX23	2632364.993	1419327.26
FX23	2632394.359	1419399.902
FX23	2632371.175	1419508.091
FX23	2632408.269	1419531.274
FX23	2632487.092	1419515.819
FX23	2632595.281	1419685.83
FX23	2632737.473	1419778.564
FX23	2632885.846	1419979.486
FX23	2632909.03	1420106.222
FX23	2633086.378	1420285.773
FX23	2633336.725	1420282.046
FX23	2633450.309	1420288.686
FX26	2633253.498	1421599.794
FX26	2633484.302	1421553.685
FX26	2633593.521	1421559.867
FX26	2633698.619	1421566.05
FX26	2633886.147	1421510.41
FX26	2634018.035	1421419.737
FX26	2634131.642	1421357.137
FX26	2634222.048	1421265.181
FX26	2634323.025	1421205.419
FX26	2634336.23	1421122.337
FX26	2634372.483	1420894.247
FX26	2634376.604	1420743.813
FX26	2634393.09	1420583.074
FX26	2634173.839	1420250.206
FX26	2633450.309	1420288.686
FX26	2633336.725	1420282.046
FX26	2633086.378	1420285.773
FX26	2633008.27	1420385.243
FX26	2632946.447	1420490.341
FX26	2632884.625	1420642.836
FX26	2632888.747	1420712.901
FX26	2632833.106	1420815.939
FX26	2632758.92	1420918.976
FX26	2632670.308	1421100.321
FX26	2632639.396	1421246.634
FX26	2632723.887	1421380.583
FX26	2632849.592	1421415.615
FX26	2633004.148	1421514.531
FX26	2633063.502	1421589.104
FX26	2633137.581	1421602.113
FX26	2633253.498	1421599.794
FX24	2631910.599	1419899.117
FX24	2631971.836	1419991.482
FX24	2632007.969	1420098.494
FX24	2631997.344	1420169.685
FX24	2632076.813	1420219.353
FX24	2632333.376	1420285.812
FX24	2632404.472	1420329.088
FX24	2632452.384	1420353.817
FX24	2632543.572	1420350.726
FX24	2632647.124	1420333.724
FX24	2632772.314	1420290.449
FX24	2633086.378	1420285.773
FX24	2632909.03	1420106.222
FX24	2632885.846	1419979.486
FX24	2632737.473	1419778.564
FX24	2632595.281	1419685.83
FX24	2632487.092	1419515.819
FX24	2632408.269	1419531.274
FX24	2632371.175	1419508.091
FX24	2632300.08	1419554.458
FX24	2632171.798	1419603.915
FX24	2632108.43	1419639.463
FX24	2632058.972	1419681.193
FX24	2631987.877	1419753.835
FX24	2631939.964	1419824.93
FX24	2631910.599	1419899.117
FX07	2631586.839	1418883.294
FX07	2631307.357	1418749.548
FX07	2631231.885	1418691.951
FX07	2631227.203	1418698.01
FX07	2631184.547	1418721.007
FX07	2631063.404	1418754.946
FX07	2631068.899	1419178.085

FX07	2631049.665	1419422.627
FX07	2631033.073	1419641.445
FX07	2631007.036	1419984.797
FX07	2631462.56	1420035.816
FX07	2631682.696	1420142.075
FX07	2631820.25	1420168.35
FX07	2631990.262	1420165.259
FX07	2631997.344	1420169.685
FX07	2632007.969	1420098.494
FX07	2631971.836	1419991.482
FX07	2631910.599	1419899.117
FX07	2631939.964	1419824.93
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FX07	2632058.972	1419681.193
FX07	2632108.43	1419639.463
FX07	2632171.798	1419603.915
FX07	2632300.08	1419554.458
FX07	2632371.175	1419508.091
FX07	2632394.359	1419399.902
FX07	2632364.993	1419327.26
FX07	2632319.615	1419215.233
FX07	2632277.793	1419218.117
FX07	2632125.298	1419218.117
FX07	2631964.56	1419222.239
FX07	2631797.639	1419009.982
FX07	2631727.574	1418956.403
FX07	2631586.839	1418883.294
FX09	2631656.059	1418582.078
FX09	2631936.966	1418713.8
FX09	2632061.749	1418746.352
FX09	2632215.829	1418756.118
FX09	2632289.614	1418828.817
FX09	2632332.099	1418910.955
FX09	2632338.521	1418846.156
FX09	2632361.091	1418756.746
FX09	2632394.511	1418695.114
FX09	2632429.233	1418648.673
FX09	2632462.259	1418615.644
FX09	2632539.408	1418562.422
FX09	2632612.225	1418536.696
FX09	2632611.624	1418528.443
FX09	2632559.043	1418129.206
FX09	2632478.674	1418131.267
FX09	2632375.637	1418127.145
FX09	2632254.053	1418160.117
FX09	2632161.319	1418168.36
FX09	2632087.133	1418186.907
FX09	2632043.857	1418217.818
FX09	2631835.722	1418353.827
FX09	2631771.839	1418388.86
FX09	2631670.862	1418399.164
FX09	2631545.157	1418458.925
FX09	2631442.12	1418504.262
FX09	2631386.479	1418502.201
FX09	2631470.642	1418557.599
FX09	2631578.455	1418566.453
FX09	2631656.059	1418582.078
FX28	2633970.463	1418049.106
FX28	2633771.819	1418242.531
FX28	2633772.028	1418246.252
FX28	2633759.007	1418310.271
FX28	2633737.294	1418358.701
FX28	2633737.253	1418358.769
FX28	2633861.43	1418418.389
FX28	2633971.337	1418462.351
FX28	2634152.682	1418550.276
FX28	2634235.112	1418640.949
FX28	2634388.981	1418792.07
FX28	2634548.345	1418808.556
FX28	2634732.438	1418888.238
FX28	2634922.027	1419025.621
FX28	2634954.27	1419068.859
FX28	2635023.046	1419161.086
FX28	2635291.587	1419178.956
FX28	2635321.947	1419172.76
FX28	2635308.073	1419127.438
FX28	2635270.98	1419042.947
FX28	2635252.433	1419007.914
FX28	2635303.952	1418810.083
FX28	2635347.914	1418524.326
FX28	2635738.082	1418474.868
FX28	2635955.147	1418375.953
FX28	2636144.549	1418267.545
FX28	2635823.073	1418055.288
FX28	2635652.031	1418028.499
FX28	2635235.76	1418057.349
FX28	2635118.298	1418016.134
FX28	2634866.887	1417873.943
FX28	2634530.986	1418030.56
FX28	2633970.463	1418049.106
FX29	2636723.847	1419358.23
FX29	2637007.715	1419250.385
FX29	2637496.291	1419378.378
FX29	2637528.911	1419342.431
FX29	2637620.271	1419310.146
FX29	2637685.986	1419341.193
FX29	2637809.631	1419322.646
FX29	2637576.766	1419118.633
FX29	2637277.958	1418875.465
FX29	2637152.253	1418803.339
FX29	2636946.179	1418613.75
FX29	2636886.417	1418560.171
FX29	2636742.165	1418413.858
FX29	2636606.156	1418286.092
FX29	2636527.847	1418257.241
FX29	2636424.81	1418253.12
FX29	2636327.955	1418174.812
FX29	2636274.403	1418200.794
FX29	2636144.549	1418267.545
FX29	2635955.147	1418375.953
FX29	2635738.082	1418474.868
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FX29	2635252.433	1419007.914
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FX29	2635308.073	1419127.438
FX29	2635321.947	1419172.76
FX29	2635493.54	1419137.741
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FX29	2636485.828	1419443.834
FX29	2636723.847	1419358.23
FX17	2632447.461	1417490.705
FX17	2632559.61	1417393.613
FX17	2632559.61	1417320.696
FX17	2632552.665	1416779.029
FX17	2632639.471	1416693.96

FX17	2632635.999	1416622.779
FX17	2632646.415	1416483.891
FX17	2632728.012	1416339.793
FX17	2632762.735	1416221.738
FX17	2632818.556	1416143.882
FX17	2632758.221	1416120.74
FX17	2632638.429	1416248.344
FX17	2632609.783	1416318.656
FX17	2632551.19	1416352.51
FX17	2632424.887	1416378.552
FX17	2632350.669	1416446.26
FX17	2632148.846	1416461.885
FX17	2632049.887	1416431.937
FX17	2631900.338	1416439.145
FX17	2631905.006	1416476.493
FX17	2631952.749	1416579.575
FX17	2631963.297	1416590.317
FX17	2631972.378	1416625.816
FX17	2632000.59	1416663.794
FX17	2632045.077	1416714.792
FX17	2632118.862	1416773.386
FX17	2632103.924	1416815.053
FX17	2632117.452	1416880.156
FX17	2632118.537	1416934.41
FX17	2632105.516	1416987.578
FX17	2632157.599	1417035.321
FX17	2632276.957	1417198.082
FX17	2632248.745	1417221.953
FX17	2632228.129	1417290.313
FX17	2632184.726	1417347.821
FX17	2632238.979	1417435.712
FX17	2632330.382	1417448.846
FX17	2632394.618	1417407.179
FX17	2632447.461	1417490.705
FX11	2632254.053	1418160.117
FX11	2632375.637	1418127.145
FX11	2632478.674	1418131.267
FX11	2632559.043	1418129.206
FX11	2632591.297	1417998.582
FX11	2632595.638	1417915.249
FX11	2632545.29	1417839.728
FX11	2632533.174	1417765.843
FX11	2632699.974	1417732.588
FX11	2632678.35	1417619.388
FX11	2632667.23	1417569.722
FX11	2632658.582	1417554.294
FX11	2632639.471	1417499.516
FX11	2632559.61	1417393.613
FX11	2632447.461	1417490.705
FX11	2632394.618	1417407.179
FX11	2632330.382	1417448.846
FX11	2632284.632	1417531.768
FX11	2632247.049	1417599.888
FX11	2632108.16	1417646.763
FX11	2631823.438	1417676.711
FX11	2631799.566	1417785.218
FX11	2631656.337	1417874.193
FX11	2631478.386	1417902.405
FX11	2631378.559	1418041.294
FX11	2631372.049	1418225.756
FX11	2631369.879	1418373.325
FX11	2631386.479	1418502.201
FX11	2631442.12	1418504.262
FX11	2631545.157	1418458.925
FX11	2631670.862	1418399.164
FX11	2631771.839	1418388.86
FX11	2631835.722	1418353.827
FX11	2632043.857	1418217.818
FX11	2632087.133	1418186.907
FX11	2632161.319	1418168.36
FX11	2632254.053	1418160.117
FX31	2637813.752	1419567.875
FX31	2637859.088	1419440.109
FX31	2637871.453	1419359.74
FX31	2637809.631	1419322.646
FX31	2637685.986	1419341.193
FX31	2637620.271	1419310.146
FX31	2637528.911	1419342.431
FX31	2637496.291	1419378.378
FX31	2637007.715	1419250.385
FX31	2636723.847	1419358.23
FX31	2636485.828	1419443.834
FX31	2635970.988	1419430.356
FX31	2635493.54	1419137.741
FX31	2635291.587	1419178.956
FX31	2635023.046	1419161.086
FX31	2635053.635	1419240.69
FX31	2635091.829	1419278.885
FX31	2635136.968	1419357.01
FX31	2635180.371	1419454.232
FX31	2635178.635	1419497.635
FX31	2635215.093	1419589.649
FX31	2635307.107	1419678.19
FX31	2635425.162	1419763.26
FX31	2635569.26	1419883.051
FX31	2635623.415	1419934.346
FX31	2635818.728	1420147.02
FX31	2635944.596	1420337.992
FX31	2635974.978	1420435.648
FX31	2636089.995	1420633.131
FX31	2636158.895	1420868.2
FX31	2636597.974	1420868.2
FX31	2637049.752	1421055.782
FX31	2637058.647	1421059.475
FX31	2637226.708	1421137.166
FX31	2637492.297	1421263.154
FX31	2637934.598	1421227.452
FX31	2637730.177	1421078.711
FX31	2637407.887	1420809.959
FX31	2637392.437	1420769.814
FX31	2637288.27	1420558.876
FX31	2637190.047	1420454.119
FX31	2637161.867	1420327.939
FX31	2637245.377	1420289.815
FX31	2637266.498	1420193.751
FX31	2637601.506	1420097.454
FX31	2637700.247	1420090.944
FX31	2637766.436	1420081.178
FX31	2637840.221	1419974.841
FX31	2637840.542	1419959.417
FX31	2637823.492	1419841.131
FX31	2637812.326	1419763.667
FX31	2637807.57	1419730.674
FX31	2637813.752	1419567.875
FX34	2636759.203	1421604.757
FX34	2637203.303	1422190.806

FX34	2640286.472	1422338.361
FX34	2639619.851	1421592.797
FX34	2639461.82	1421416.052
FX34	2639054.576	1421137.049
FX34	2637243.491	1421283.237
FX34	2636871.462	1421405.968
FX34	2636731.615	1421544.383
FX34	2636759.203	1421604.757
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FX33	2636759.203	1421604.757
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FX33	2636871.462	1421405.968
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FX33	2637492.297	1421263.154
FX33	2637226.708	1421137.166
FX33	2637058.647	1421059.475
FX33	2637049.752	1421055.782
FX33	2636597.974	1420868.2
FX33	2636158.895	1420868.2
FX33	2635748.258	1420883.152
FX33	2635709.13	1420919.211
FX33	2635581.526	1421040.738
FX33	2635509.697	1421193.83
FX33	2635608.602	1421238.236
FX33	2635632.474	1421300.085
FX33	2635758.342	1421387.976
FX33	2635803.915	1421436.804
FX33	2635874.444	1421443.314
FX33	2636073.012	1421484.547
FX33	2636122.925	1421553.991
FX33	2636171.753	1421600.649
FX33	2636309.557	1421621.266
FX33	2636384.427	1421640.797
FX33	2636435.215	1421859.77
FX33	2636401.708	1421940.5
FX33	2636400.493	1422019.493
FX33	2636374.451	1422146.229
FX33	2636602.75	1422181.819
FX33	2636775.052	1422170.311
FX33	2636910.037	1422176.771
FX33	2637203.303	1422190.806
FX32	2635053.635	1419240.69
FX32	2635023.046	1419161.086
FX32	2634998.317	1419312.207
FX32	2634841.7	1419567.739
FX32	2634652.112	1419699.627
FX32	2634173.839	1420250.206
FX32	2634482.112	1420520.82
FX32	2635050.553	1420609.244
FX32	2635293.358	1420825.658
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FX32	2635974.978	1420435.648
FX32	2635944.596	1420337.992
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FX32	2635569.26	1419883.051
FX32	2635425.162	1419763.26
FX32	2635307.107	1419678.19
FX32	2635215.093	1419589.649
FX32	2635178.635	1419497.635
FX32	2635180.371	1419454.232
FX32	2635136.968	1419357.01
FX32	2635091.829	1419278.885
FX32	2635053.635	1419240.69
FX18	2633162.892	1417635.354
FX18	2633236.51	1417624.596
FX18	2633313.767	1417631.541
FX18	2633358.906	1417643.693
FX18	2633397.969	1417661.923
FX18	2633436.163	1417687.964
FX18	2633480.941	1417721.85
FX18	2633510.048	1417676.874
FX18	2633560.743	1417673.986
FX18	2633641.993	1417673.639
FX18	2633759.701	1417675.722
FX18	2633826.542	1417676.417
FX18	2633873.417	1417678.5
FX18	2634051.976	1417687.875
FX18	2634339.736	1417691.781
FX18	2634517.405	1417683.383
FX18	2634575.202	1417655.06
FX18	2634286.573	1417531.362
FX18	2634050.028	1417468.428
FX18	2634016.321	1417419.849
FX18	2633976.243	1417362.091
FX18	2633793.011	1416808.633
FX18	2633652.644	1416614.542
FX18	2633604.209	1416543.008
FX18	2633541.695	1416305.867
FX18	2633455.758	1416213.419
FX18	2633350.289	1416166.544
FX18	2633274.768	1416130.086
FX18	2633220.081	1416114.461
FX18	2633122.424	1416106.648
FX18	2633001.331	1416104.044
FX18	2632958.362	1416072.794
FX18	2632906.279	1416076.7
FX18	2632848.987	1416101.44
FX18	2632818.556	1416143.882
FX18	2632762.735	1416221.738
FX18	2632728.012	1416339.793
FX18	2632646.415	1416483.891
FX18	2632635.999	1416622.779
FX18	2632639.471	1416693.96
FX18	2632552.665	1416779.029
FX18	2632559.61	1417320.696
FX18	2632559.61	1417393.613
FX18	2632639.471	1417499.516
FX18	2632658.582	1417554.294
FX18	2632667.23	1417569.722
FX18	2632678.35	1417619.388
FX18	2632699.974	1417732.588
FX18	2632958.221	1417678.335
FX18	2633162.892	1417635.354
FX01	2630581.68	1417738.491
FX01	2630523.086	1417780.158
FX01	2630313.451	1417798.387
FX01	2630240.534	1417815.314

FX01	2630165.013	1417832.241
FX01	2629762.67	1417847.866
FX01	2629589.493	1417864.793
FX01	2629510.065	1417885.627
FX01	2629479.36	1417911.946
FX01	2629579.872	1418020.544
FX01	2629732.649	1418221.933
FX01	2629812.51	1418452.836
FX01	2629885.427	1418584.78
FX01	2630100.705	1418772.28
FX01	2630298.014	1418892.072
FX01	2630464.03	1419037.471
FX01	2630618.109	1419185.041
FX01	2630630.816	1419172.542
FX01	2630609.766	1418762.537
FX01	2630581.68	1417738.491
FX02	2630581.68	1417738.491
FX02	2630529.386	1415954.722
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FX02	2630064.247	1415911.169
FX02	2630076.399	1416346.933
FX02	2630062.51	1416581.308
FX02	2630000.01	1416725.405
FX02	2629904.524	1416872.975
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FX02	2629305.566	1417510.128
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FX02	2629321.191	1417695.891
FX02	2629428.83	1417857.35
FX02	2629479.36	1417911.946
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FX02	2629589.493	1417864.793
FX02	2629762.67	1417847.866
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FX02	2630240.534	1417815.314
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FX02	2630523.086	1417780.158
FX02	2630581.68	1417738.491
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FX35	2637601.506	1420097.454
FX35	2637266.498	1420193.751
FX35	2637245.377	1420289.815
FX35	2637161.867	1420327.939
FX35	2637190.047	1420454.119
FX35	2637288.27	1420558.876
FX35	2637392.437	1420769.814
FX35	2637407.887	1420809.959
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FX35	2638082.218	1419960.708
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FX35	2637892.019	1419969.661
FX35	2637840.542	1419959.417
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FX06	2631124.588	1421211.421
FX06	2631516.326	1421333.295
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FX06	2631727.646	1421276.386
FX06	2631672.907	1421114.747
FX06	2631679.089	1421052.924
FX06	2631841.888	1420886.004
FX06	2631894.437	1420808.211
FX06	2631963.987	1420717.023
FX06	2632022.719	1420649.018
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FX06	2632333.376	1420285.812
FX06	2632076.813	1420219.353
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FX06	2631990.262	1420165.259
FX06	2631820.25	1420168.35
FX06	2631682.696	1420142.075
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FX06	2630949.762	1420529.809
FX06	2630921.889	1420636.911
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FX22	2632612.225	1418536.696
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FX22	2632361.091	1418756.746
FX22	2632338.521	1418846.156
FX22	2632321.694	1419015.932
FX22	2632321.87	1419015.953
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FX22	2632892.236	1419459.115
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FX30	2633970.463	1418049.106
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FX10	2631378.559	1418041.294
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FX15	2631675.929	1417006.807
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FX15	2631662.908	1416844.047
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FX15	2631191.917	1417328.003
FX15	2631306.5	1417360.989
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FX19	2632559.043	1418129.206
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FX19	2633047.885	1418110.61
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FX19	2633508.551	1418241.239
FX19	2633593.042	1418261.846
FX19	2633689.897	1418336.033
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FX20	2633316.642	1418503.272
FX20	2633319.098	1418562.217
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FX05	2631007.727	1419301.539
FX05	2631055.731	1419345.505
FX05	2631068.899	1419178.085
FX05	2631063.404	1418754.946
FX05	2631037.156	1418764.83
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FX13	2632043.722	1416803.012
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FX13	2631989.403	1417525.278
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FX16	2632350.669	1416446.26
FX16	2632424.887	1416378.552
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FX16	2632609.783	1416318.656
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FX16	2632818.556	1416143.882
FX16	2632848.987	1416101.44
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FX16	2632350.748	1415666.275
FX16	2632221.846	1415696.519
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FX16	2631639.066	1416539.83
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FX12	2632269.959	1417523.542
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FX12	2631735.236	1417503.056
FX12	2631724.299	1417490.035
FX12	2631685.236	1417419.505
FX12	2631493.179	1417552.969
FX12	2631365.141	1417635.434
FX12	2631296.781	1417628.924
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FX14	2631196.762	1417625.297
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FX14	2631365.141	1417635.434
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FX14	2631763.448	1417365.122
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FX14	2631832.459	1417242.726
FX14	2631830.18	1417191.033
FX14	2631811.951	1417101.45
FX14	2631788.513	1417023.325
FX14	2631804.138	1416958.741
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FX14	2631952.749	1416579.575
FX14	2631905.006	1416476.493
FX14	2631900.338	1416439.145
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FX14	2631614.992	1416620.74
FX14	2631502.752	1416699.516
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FX14	2631662.908	1416844.047
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FX14	2631660.304	1417074.516
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FX14	2631522.283	1417165.661
FX14	2631442.856	1417280.245
FX14	2631425.939	1417306.306
FX14	2631306.5	1417360.989
FX14	2631191.917	1417328.003
FX14	2631146.778	1417328.003
FX14	2631025.056	1417341.342
FX14	2631030.297	1417692.467
FX14	2631129.054	1417659.151
FX21	2633319.098	1418562.217
FX21	2633316.642	1418503.272
FX21	2633248.771	1418503.446

FX21	2633073.301	1418510.16
FX21	2633065.994	1418510.443
FX21	2633075.41	1418573.219
FX21	2633071.938	1418712.108
FX21	2633271.591	1419059.33
FX21	2633391.382	1419281.552
FX21	2633419.16	1419526.344
FX21	2633431.313	1419606.552
FX21	2633509.046	1419749.668
FX21	2633529.19	1419799.717
FX21	2633537.938	1419805.945
FX21	2633669.311	1419906.406
FX21	2633735.644	1419975.214
FX21	2633557.533	1419626.194
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FX21	2633529.898	1419187.305
FX21	2633575.037	1419079.666
FX21	2633602.399	1418904.523
FX21	2633335.244	1418595.029
FX21	2633319.098	1418562.217
FX27	2633861.43	1418418.389
FX27	2633737.253	1418358.769
FX27	2633696.079	1418426.706
FX27	2633658.985	1418469.982
FX27	2633588.92	1418783.215
FX27	2633602.399	1418904.523
FX27	2633575.037	1419079.666
FX27	2633529.898	1419187.305
FX27	2633535.608	1419262.386
FX27	2633552.325	1419450.673
FX27	2633557.533	1419626.194
FX27	2633735.644	1419975.214
FX27	2633876.416	1420121.239
FX27	2634173.839	1420250.206
FX27	2634652.112	1419699.627
FX27	2634841.7	1419567.739
FX27	2634998.317	1419312.207
FX27	2635023.046	1419161.086
FX27	2634954.27	1419068.859
FX27	2634922.027	1419025.621
FX27	2634732.438	1418888.238
FX27	2634548.345	1418808.556
FX27	2634388.981	1418792.07
FX27	2634235.112	1418640.949
FX27	2634152.682	1418550.276
FX27	2633971.337	1418462.351
FX27	2633861.43	1418418.389
FX36	2630675.159	1419258.743
FX36	2630730.715	1419352.493
FX36	2630772.381	1419404.576
FX36	2630803.631	1419470.549
FX36	2630834.881	1419571.243
FX36	2630866.131	1419630.271
FX36	2630834.881	1419706.66
FX36	2630782.798	1419814.299
FX36	2630796.687	1419918.465
FX36	2630824.465	1420039.993
FX36	2630779.326	1420175.41
FX36	2630748.076	1420300.41
FX36	2630758.492	1420460.132
FX36	2630737.659	1420529.576
FX36	2630713.353	1420640.687
FX36	2630720.298	1420741.382
FX36	2630692.52	1420800.41
FX36	2630723.77	1420838.604
FX36	2630810.576	1420869.854
FX36	2630818.562	1420872.285
FX36	2630848.55	1420823.373
FX36	2630882.098	1420751.862
FX36	2630921.889	1420636.911
FX36	2630949.762	1420529.809
FX36	2630969.553	1420415.019
FX36	2630989.218	1420210.735
FX36	2631007.036	1419984.797
FX36	2631033.073	1419641.445
FX36	2631049.665	1419422.627
FX36	2631055.731	1419345.505
FX36	2631007.727	1419301.539
FX36	2630940.019	1419306.747
FX36	2630778.561	1419193.032
FX36	2630697.831	1419197.372
FX36	2630648.256	1419229.853
FX36	2630675.159	1419258.743

[SYMBOLS]

```
;;Gage           X-Coord          Y-Coord
;;-------------- ---------------- ----------------
```

```
[TITLE]
Pine Grove/ Mt. Werner Road Basin - Future Conditions
UDFCD gauge 100 year 2 hr
Initially labeled Missing Basin (MI)


[OPTIONS]
FLOW_UNITS           CFS
INFILTRATION         HORTON
FLOW_ROUTING         KINWAVE
START_DATE           07/05/2012
START_TIME           00:00:00
REPORT_START_DATE    07/05/2012
REPORT_START_TIME    00:00:00
END_DATE             07/06/2012
END_TIME             00:00:00
SWEEP_START          01/01
SWEEP_END            12/31
DRY_DAYS             0
REPORT_STEP          0:05:00
WET_STEP             0:05:00
DRY_STEP             0:05:00
ROUTING_STEP         300
ALLOW_PONDING        NO
INERTIAL_DAMPING     PARTIAL
VARIABLE_STEP        0.75
LENGTHENING_STEP     0
MIN_SURFAREA         0
NORMAL_FLOW_LIMITED  BOTH
SKIP_STEADY_STATE    NO
FORCE_MAIN_EQUATION  H-W
LINK_OFFSETS         DEPTH
MIN_SLOPE            0

[EVAPORATION]
;;Type          Parameters
;;------------- ----------
CONSTANT     0.0
DRY_ONLY     NO

[RAINGAGES]
;;               Rain      Time   Snow   Data
;;Name           Type      Intrvl Catch  Source
;;-------------- --------- ------ ------ ----------
rg100            INTENSITY 0:15   1.0    TIMESERIES SCS_24h_Type_II_2.8in
UDFCD100         VOLUME    0:05   1.0    TIMESERIES UDFCD100
UDFCD5           VOLUME    0:05   1.0    TIMESERIES Timeseries1

[SUBCATCHMENTS]
;;                                                Total    Pcnt.              Pcnt.    Curb
Snow
;;Name           Raingage         Outlet           Area     Imperv   Width    Slope    Length
Pack
;;-------------- ---------------- ---------------- -------- -------- -------- -------- --------
--------
MI15             UDFCD100         J-MI15           22.6616  82.6     2262.62  6.36     0
MI08             UDFCD100         J-MI08           41.8105  89.1     2698.89  5.78     0
MI01             UDFCD100         J-MI01           25.1802  52.8     3357.65  1.28     0
MI33             UDFCD100         J-MI33           23.3024  42.4     3784.8   16.97    0
MI32             UDFCD100         J-MI32           17.5245  27.8     3651.76  8.11     0
MI31             UDFCD100         J-MI31           9.01121  42.7     1568.04  6.69     0
MI28             UDFCD100         J-MI28           23.1666  37.2     3172.42  8.32     0
MI27             UDFCD100         J-MI27           10.6299  58.4     2403.44  6.65     0
MI26             UDFCD100         J-MI26           14.9127  75.2     1587.55  5.44     0
MI12             UDFCD100         J-MI12           20.2727  71.5     2655.23  3.43     0
MI25             UDFCD100         J-MI25           14.1094  68.5     2879.89  6.86     0
MI14             UDFCD100         J-MI14           41.705   59       2609.58  3.06     0
MI05             UDFCD100         J-MI05           8.19855  70.3     1115.16  3.74     0
MI19             UDFCD100         J-MI19           11.7875  71.9     1715.26  7.31     0
MI17             UDFCD100         J-MI17           21.7753  44.1     2301.03  8.6      0
MI03             UDFCD100         J-MI03           15.4233  55.3     3583.48  2.34     0
MI16             UDFCD100         J-MI16           23.0369  60.3     2459.38  2.53     0
MI21             UDFCD100         J-MI21           8.6378   74       1505.61  13.62    0
MI29             UDFCD100         J-MI29           7.96     49.4     1523.28  19.61    0
MI30             UDFCD100         J-MI30           49.1407  52.2     4528.85  10.81    0
MI24             UDFCD100         J-MI24           7.94745  62.7     1667.01  6.04     0
MI23             UDFCD100         J-MI23           27.1941  64.6     3162.47  10.69    0
MI06             UDFCD100         J-MI06           11.7218  78.9     2267.41  2.38     0
MI13             UDFCD100         J-MI13           3.01765  95.5     771.136  3.65     0
MI20             UDFCD100         J-MI20           16.4706  75.5     1997.47  8.81     0
MI18             UDFCD100         J-MI18           7.73631  72.3     1198.69  2.66     0
MI22             UDFCD100         J-MI22           10.3474  78.5     2080.69  10.72    0
MI11             UDFCD100         J-MI11           7.01106  69.7     3478.06  4.023    0
MI10             UDFCD100         J-MI10           13.3668  59       1292.05  8.42     0
MI09             UDFCD100         J-MI09           24.7605  91.3     2633.45  2.58     0
MI07             UDFCD100         J-MI07           36.6078  83.3     5024.4   3.98     0
MI02             UDFCD100         J-MI02           31.8834  49.8     3628.08  1.87     0
MI04             UDFCD100         J-MI04           8.91632  97.9     2991.44  2.54     0
MI35             UDFCD100         J-MI35           7.07996  95.3     1708.37  3.65     0
MI34             UDFCD100         J-MI34           2.62272  95.7     730.103  3.65     0

[SUBAREAS]
;;Subcatchment   N-Imperv   N-Perv     S-Imperv   S-Perv     PctZero    RouteTo    PctRouted
;;-------------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
MI15             0.02       0.2        0.1        0.35       10         OUTLET
MI08             0.02       0.2        0.1        0.35       10         OUTLET
MI01             0.02       0.2        0.1        0.35       10         OUTLET
MI33             0.02       0.2        0.1        0.35       10         OUTLET
MI32             0.02       0.2        0.1        0.35       10         OUTLET
MI31             0.02       0.2        0.1        0.35       10         OUTLET
MI28             0.02       0.2        0.1        0.35       10         OUTLET
MI27             0.02       0.2        0.1        0.35       10         OUTLET
MI26             0.02       0.2        0.1        0.35       10         OUTLET
MI12             0.02       0.2        0.1        0.35       10         OUTLET
MI25             0.02       0.2        0.1        0.35       10         OUTLET
MI14             0.02       0.2        0.1        0.35       10         OUTLET
MI05             0.02       0.2        0.1        0.35       10         OUTLET
MI19             0.02       0.2        0.1        0.35       10         OUTLET
MI17             0.02       0.2        0.1        0.35       10         OUTLET
MI03             0.02       0.2        0.1        0.35       10         OUTLET
MI16             0.02       0.2        0.1        0.35       10         OUTLET
MI21             0.02       0.2        0.1        0.35       10         OUTLET
MI29             0.02       0.2        0.1        0.35       10         OUTLET
MI30             0.02       0.2        0.1        0.35       10         OUTLET
MI24             0.02       0.2        0.1        0.35       10         OUTLET
MI23             0.02       0.2        0.1        0.35       10         OUTLET
MI06             0.02       0.2        0.1        0.35       10         OUTLET
MI13             0.02       0.2        0.1        0.35       10         OUTLET
MI20             0.02       0.2        0.1        0.35       10         OUTLET
MI18             0.02       0.2        0.1        0.35       10         OUTLET
MI22             0.02       0.2        0.1        0.35       10         OUTLET
MI11             0.02       0.2        0.1        0.35       10         OUTLET
MI10             0.02       0.2        0.1        0.35       10         OUTLET
MI09             0.02       0.2        0.1        0.35       10         OUTLET
MI07             0.02       0.2        0.1        0.35       10         OUTLET
MI02             0.02       0.2        0.1        0.35       10         OUTLET
```

```
MI04             0.02       0.2        0.1        0.35       10         OUTLET
MI35             0.02       0.2        0.1        0.35       25         OUTLET
MI34             0.02       0.2        0.1        0.35       25         OUTLET

[INFILTRATION]
;;Subcatchment   MaxRate    MinRate    Decay      DryTime    MaxInfil
;;-------------- ---------- ---------- ---------- ---------- ----------
MI15             3          0.5        6.48       7          0
MI08             3          0.5        6.48       7          0
MI01             3          0.5        6.48       7          0
MI33             3          0.5        6.48       7          0
MI32             3          0.5        6.48       7          0
MI31             3          0.5        6.48       7          0
MI28             3          0.5        6.48       7          0
MI27             3          0.5        6.48       7          0
MI26             3          0.5        6.48       7          0
MI12             3          0.5        6.48       7          0
MI25             3          0.5        6.48       7          0
MI14             3          0.5        6.48       7          0
MI05             3          0.5        6.48       7          0
MI19             3          0.5        6.48       7          0
MI17             3          0.5        6.48       7          0
MI03             3          0.5        6.48       7          0
MI16             3          0.5        6.48       7          0
MI21             3          0.5        6.48       7          0
MI29             3          0.5        6.48       7          0
MI30             3          0.5        6.48       7          0
MI24             3          0.5        6.48       7          0
MI23             3          0.5        6.48       7          0
MI06             3          0.5        6.48       7          0
MI13             3          0.5        6.48       7          0
MI20             3          0.5        6.48       7          0
MI18             3          0.5        6.48       7          0
MI22             3          0.5        6.48       7          0
MI11             3          0.5        6.48       7          0
MI10             3          0.5        6.48       7          0
MI09             3          0.5        6.48       7          0
MI07             3          0.5        6.48       7          0
MI02             3          0.5        6.48       7          0
MI04             3          0.5        6.48       7          0
MI35             3          0.5        6.48       7          0
MI34             3          0.5        6.48       7          0

[JUNCTIONS]
;;               Invert     Max.       Init.      Surcharge  Ponded
;;Name           Elev.      Depth      Depth      Depth      Area
;;-------------- ---------- ---------- ---------- ---------- ----------
J4               6878       0          0          0          0
J1               6752       0          0          0          0
J-MI09           6802       0          0          0          0
J-MI11           6864       0          0          0          0
J-MI03           6762       0          0          0          0
J-MI04           6778       0          0          0          0
J-MI21           7000       0          0          0          0
J-MI31           7016       0          0          0          0
J-MI22           7000       0          0          0          0
J-MI19           6910       0          0          0          0
J-MI33           7100       0          0          0          0
J-MI32           6978       0          0          0          0
J-MI28           6882       0          0          0          0
J-MI30           6906       0          0          0          0
J-MI29           7064       0          0          0          0
J-MI24           6844       0          0          0          0
J-MI25           6850       0          0          0          0
J-MI23           7014       0          0          0          0
J-MI18           6786       0          0          0          0
J-MI15           6794       0          0          0          0
J-MI20           6798       0          0          0          0
J-MI17           6872       0          0          0          0
J-MI16           6780       0          0          0          0
J-MI05           6820       0          0          0          0
J-MI06           6812       0          0          0          0
J-MI07           6764       0          0          0          0
J-MI08           6763       0          0          0          0
J-MI27           6960       0          0          0          0
J-MI26           6908       0          0          0          0
J-MI12           6860       0          0          0          0
J-MI10           6790       0          0          0          0
J-MI02           6760       0          0          0          0
J-MI35           6838       0          0          0          0
J-MI14           6814       0          0          0          0
J-MI34           6838       0          0          0          0
J-MI13           6836       0          0          0          0
J2               6933       0          0          0          0
J3               6778       0          0          0          0
J5               6762       0          0          0          0
J-MI01           6750       0          0          0          0

[OUTFALLS]
;;               Invert     Outfall    Stage/Table      Tide
;;Name           Elev.      Type       Time Series      Gate
;;-------------- ---------- ---------- ---------------- ----
OF1              6750       FREE                         NO

[CONDUITS]
;;               Inlet            Outlet                      Manning    Inlet      Outlet
Init.      Max.
;;Name           Node             Node             Length     N          Offset     Offset
Flow       Flow
;;-------------- ---------------- ---------------- ---------- ---------- ---------- ----------
---------- ----------
C27              J-MI23           J-MI14           784.14     0.01       0          0
0          0
C25              J-MI25           J-MI24           138.14     0.01       0          0
0          0
C2               J-MI09           J-MI01           1027.1     0.01       0          0
0          0
C22              J-MI26           J-MI12           858.54     0.01       0          0
0          0
C1               J-MI02           OF1              167.4      0.01       0          0
0          0
C21              J-MI12           J-MI10           716.3      0.01       0          0
0          0
C20              J-MI11           J-MI10           658.82     0.01       0          0
0          0
C23              J-MI27           J-MI26           1032.84    0.01       0          0
0          0
C18              J-MI21           J-MI18           1771.87    0.01       0          0
0          0
C17              J-MI22           J-MI15           1350.14    0.01       0          0
0          0
C19              J-MI10           J-MI08           1316.19    0.01       0          0
0          0
C13              J-MI05           J-MI06           982.63     0.01       0          0
0          0
```

```
C15             J-MI15          J-MI18          591.79     0.01       0          0
0          0
C29             J-MI29          J-MI23          1116.55    0.01       0          0
0          0
C11             J-MI18          J-MI16          875.67     0.01       0          0
0          0
C10             J-MI19          J-MI17          705.81     0.01       0          0
0          0
C12             J-MI06          J-MI03          778.92     0.01       0          0
0          0
C7              J3              J5              3069.9     0.01       0          0
0          0
C9              J-MI16          J-MI04          304.83     0.01       0          0
0          0
C14             J-MI20          J-MI15          44.91      0.01       0          0
0          0
C26             J-MI14          J-MI15          1054.53    0.01       0          0
0          0
C8              J-MI17          J3              678.1      0.01       0          0
0          0
C4              J-MI08          J1              697.85     0.01       0          0
0          0
C3              J-MI07          J-MI08          62.56      0.01       0          0
0          0
C6              J5              J1              503.13     0.01       0          0
0          0
C5              J1              OF1             2630.82    0.01       0          0
0          0
C30             J-MI28          J4              108.66     0.01       0          0
0          0
C31             J-MI30          J4              421.48     0.01       0          0
0          0
C32             J4              J-MI24          704.98     0.01       0          0
0          0
C33             J-MI32          J-MI28          1227.47    0.01       0          0
0          0
C34             J-MI33          J-MI32          1448.25    0.01       0          0
0          0
C35             J-MI35          J-MI13          209.62     0.01       0          0
0          0
C16             J-MI13          J-MI14          1127.47    0.01       0          0
0          0
C37             J-MI34          J-MI10          1282.24    0.01       0          0
0          0
C28             J-MI24          J-MI14          1171.62    0.01       0          0
0          0
C36             J2              J-MI25          1276.66    0.01       0          0
0          0
C38             J-MI31          J2              750.94     0.01       0          0
0          0
C24             J-MI04          J3              28.8       0.01       0          0
0          0
C39             J-MI03          J5              19.7       0.01       0          0
0          0
C40             J-MI01          OF1             25.19      0.01       0          0
0          0
```

[XSECTIONS]

```
;;Link           Shape        Geom1            Geom2      Geom3      Geom4      Barrels
;;-------------- ------------ ---------------- ---------- ---------- ---------- ----------
C27             IRREGULAR    Channel-overflow2a 0          0          0          1
C25             IRREGULAR    channel-main2nd  0          0          0          1
C2              IRREGULAR    channel-main1a   0          0          0          1
C22             IRREGULAR    channel-main2nd  0          0          0          1
C1              IRREGULAR    largeriver       0          0          0          1
C21             IRREGULAR    channel-main1a   0          0          0          1
C20             IRREGULAR    channel-main1a   0          0          0          1
C23             IRREGULAR    channel-main1a   0          0          0          1
C18             IRREGULAR    channel-overflow1a 0          0          0          1
C17             IRREGULAR    channel-overflow1a 0          0          0          1
C19             IRREGULAR    channel-main2nd  0          0          0          1
C13             IRREGULAR    channel-main1st  0          0          0          1
C15             IRREGULAR    channel-overflow2n 0          0          0          1
C29             IRREGULAR    channel-main2nd  0          0          0          1
C11             IRREGULAR    channel-overflow2n 0          0          0          1
C10             IRREGULAR    channel-main1a   0          0          0          1
C12             IRREGULAR    channel-overflow2n 0          0          0          1
C7              IRREGULAR    largeriver       0          0          0          1
C9              IRREGULAR    channel-overflow2n 0          0          0          1
C14             IRREGULAR    channel-overflow2n 0          0          0          1
C26             IRREGULAR    channel-overflow2n 0          0          0          1
C8              IRREGULAR    channel-main1a   0          0          0          1
C4              IRREGULAR    channel-overflow2n 0          0          0          1
C3              IRREGULAR    channel-overflow1s 0          0          0          1
C6              IRREGULAR    largeriver       0          0          0          1
C5              IRREGULAR    largeriver       0          0          0          1
C30             IRREGULAR    channel-overflow2n 0          0          0          1
C31             IRREGULAR    Channel-overflow2a 0          0          0          1
C32             IRREGULAR    channel-overflow2n 0          0          0          1
C33             IRREGULAR    channel-overflow1a 0          0          0          1
C34             IRREGULAR    channel-overflow1a 0          0          0          1
C35             IRREGULAR    street-main      0          0          0          1
C16             IRREGULAR    channel-main2nd  0          0          0          1
C37             IRREGULAR    street-main      0          0          0          1
C28             IRREGULAR    channel-overflow2n 0          0          0          1
C36             IRREGULAR    channel-main2nd  0          0          0          1
C38             IRREGULAR    channel-overflow1a 0          0          0          1
C24             DUMMY        0                0          0          0          1
C39             DUMMY        0                0          0          0          1
C40             DUMMY        0                0          0          0          1
```

[TRANSECTS]

```
NC 0.0625   0.0625   0.0375
X1 channel-main1st  8        4        8        0.0       0.0       0.0       0.0       0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        8
GR 0.5      8        1.5      12       5.5      28

NC 0.0625   0.0625   0.0375
X1 channel-main2nd  8        4        12       0.0       0.0       0.0       0.0       0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        12
GR 0.5      12       1.5      16       5.5      32

NC 0.0625   0.0625   0.0375
X1 channel-main3rd  8        4        16       0.0       0.0       0.0       0.0       0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        16
GR 0.5      16       1.5      20       5.5      36

NC 0.0625   0.0625   0.0375
X1 channel-overflow1s 8        20       28       0.0       0.0       0.0       0.0       0.0
GR 6        -80      2        0        1        20       0        20       0        28
GR 1        28       2        48       6        128

NC 0.0625   0.0625   0.0375
X1 channel-overflow2n 8        20       35       0.0       0.0       0.0       0.0       0.0
GR 6        -80      2        0        1        20       0        20       0        35
```

```
GR 1        35       2        55       6        135

NC 0.0625   0.0625   0.0375
X1 channel-overflow3r 8        20       50       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        60
GR 1        60       2        80       6        160

NC 0.0625   0.0625   0.01875
X1 street-main      9        6        30.5     0.0       0.0       0.0      0.0      0.0
GR 2        -40      1        0        0        3        1        6        1.25     18.5
GR 1        30.5     0        33.5     1        36.5     2        76.5

NC 0.0625   0.0625   0.01875
X1 street-overflow  13       13       53       0.0       0.0       0.0      0.0      0.0
GR 3.5      -30      3        -20      2        0        0        6        0        7
GR 2        13       2.4      33       2        53       0        59       0        60
GR 2        66       3        86       3.5      96

NC 0.0625   0.0625   0.035
X1 largeriver       12       21       41       0.0       0.0       0.0      0.0      0.0
GR 10       -45      7        -45      5        -5       4        15       2        21
GR 0        21       0        41       2        41       4        47       5        67
GR 7        107      10       107

NC 0.122    0.122    0.073
X1 channel-main1a   8        4        8        0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        8
GR 0.5      8        1.5      12       5.5      28

NC 0.122    0.122    0.073
X1 channel-overflow1a 8        20       28       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        28
GR 1        28       2        48       6        128

NC 0.122    0.122    0.073
X1 Channel-overflow2a 8        20       35       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        35
GR 1        35       2        55       6        135

[LOSSES]
;;Link           Inlet      Outlet     Average    Flap Gate
;;-------------- ---------- ---------- ---------- ----------

[TIMESERIES]
;;Name           Date       Time       Value
;;-------------- ---------- ---------- ----------
;SCS_24h_Type_II_1.7in design storm, total rainfall = 1.7 in, rain units = in.
SCS_24h_Type_II_1.7in            0:00       0.00468
SCS_24h_Type_II_1.7in            0:15       0.00468
SCS_24h_Type_II_1.7in            0:30       0.00468
SCS_24h_Type_II_1.7in            0:45       0.00468
SCS_24h_Type_II_1.7in            1:00       0.00468
SCS_24h_Type_II_1.7in            1:15       0.00468
SCS_24h_Type_II_1.7in            1:30       0.00468
SCS_24h_Type_II_1.7in            1:45       0.00468
SCS_24h_Type_II_1.7in            2:00       0.00552
SCS_24h_Type_II_1.7in            2:15       0.00552
SCS_24h_Type_II_1.7in            2:30       0.00552
SCS_24h_Type_II_1.7in            2:45       0.00552
SCS_24h_Type_II_1.7in            3:00       0.00552
SCS_24h_Type_II_1.7in            3:15       0.00552
SCS_24h_Type_II_1.7in            3:30       0.00552
SCS_24h_Type_II_1.7in            3:45       0.00552
SCS_24h_Type_II_1.7in            4:00       0.0068
SCS_24h_Type_II_1.7in            4:15       0.0068
SCS_24h_Type_II_1.7in            4:30       0.0068
SCS_24h_Type_II_1.7in            4:45       0.0068
SCS_24h_Type_II_1.7in            5:00       0.0068
SCS_24h_Type_II_1.7in            5:15       0.0068
SCS_24h_Type_II_1.7in            5:30       0.0068
SCS_24h_Type_II_1.7in            5:45       0.0068
SCS_24h_Type_II_1.7in            6:00       0.00765
SCS_24h_Type_II_1.7in            6:15       0.00765
SCS_24h_Type_II_1.7in            6:30       0.00765
SCS_24h_Type_II_1.7in            6:45       0.00765
SCS_24h_Type_II_1.7in            7:00       0.00935
SCS_24h_Type_II_1.7in            7:15       0.00935
SCS_24h_Type_II_1.7in            7:30       0.00935
SCS_24h_Type_II_1.7in            7:45       0.00935
SCS_24h_Type_II_1.7in            8:00       0.0111
SCS_24h_Type_II_1.7in            8:15       0.0111
SCS_24h_Type_II_1.7in            8:30       0.0119
SCS_24h_Type_II_1.7in            8:45       0.0119
SCS_24h_Type_II_1.7in            9:00       0.0136
SCS_24h_Type_II_1.7in            9:15       0.0136
SCS_24h_Type_II_1.7in            9:30       0.0153
SCS_24h_Type_II_1.7in            9:45       0.0153
SCS_24h_Type_II_1.7in            10:00      0.0196
SCS_24h_Type_II_1.7in            10:15      0.0196
SCS_24h_Type_II_1.7in            10:30      0.0264
SCS_24h_Type_II_1.7in            10:45      0.0264
SCS_24h_Type_II_1.7in            11:00      0.0408
SCS_24h_Type_II_1.7in            11:15      0.0408
SCS_24h_Type_II_1.7in            11:30      0.126
SCS_24h_Type_II_1.7in            11:45      0.52
SCS_24h_Type_II_1.7in            12:00      0.0612
SCS_24h_Type_II_1.7in            12:15      0.0612
SCS_24h_Type_II_1.7in            12:30      0.0314
SCS_24h_Type_II_1.7in            12:45      0.0314
SCS_24h_Type_II_1.7in            13:00      0.023
SCS_24h_Type_II_1.7in            13:15      0.023
SCS_24h_Type_II_1.7in            13:30      0.0178
SCS_24h_Type_II_1.7in            13:45      0.0178
SCS_24h_Type_II_1.7in            14:00      0.0127
SCS_24h_Type_II_1.7in            14:15      0.0127
SCS_24h_Type_II_1.7in            14:30      0.0127
SCS_24h_Type_II_1.7in            14:45      0.0127
SCS_24h_Type_II_1.7in            15:00      0.0127
SCS_24h_Type_II_1.7in            15:15      0.0127
SCS_24h_Type_II_1.7in            15:30      0.0127
SCS_24h_Type_II_1.7in            15:45      0.0127
SCS_24h_Type_II_1.7in            16:00      0.00765
SCS_24h_Type_II_1.7in            16:15      0.00765
SCS_24h_Type_II_1.7in            16:30      0.00765
SCS_24h_Type_II_1.7in            16:45      0.00765
SCS_24h_Type_II_1.7in            17:00      0.00765
SCS_24h_Type_II_1.7in            17:15      0.00765
SCS_24h_Type_II_1.7in            17:30      0.00765
SCS_24h_Type_II_1.7in            17:45      0.00765
SCS_24h_Type_II_1.7in            18:00      0.00765
SCS_24h_Type_II_1.7in            18:15      0.00765
SCS_24h_Type_II_1.7in            18:30      0.00765
SCS_24h_Type_II_1.7in            18:45      0.00765
SCS_24h_Type_II_1.7in            19:00      0.00765
SCS_24h_Type_II_1.7in            19:15      0.00765
SCS_24h_Type_II_1.7in            19:30      0.00765
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SCS_24h_Type_II_1.7in          19:45      0.00765
SCS_24h_Type_II_1.7in          20:00      0.0051
SCS_24h_Type_II_1.7in          20:15      0.0051
SCS_24h_Type_II_1.7in          20:30      0.0051
SCS_24h_Type_II_1.7in          20:45      0.0051
SCS_24h_Type_II_1.7in          21:00      0.0051
SCS_24h_Type_II_1.7in          21:15      0.0051
SCS_24h_Type_II_1.7in          21:30      0.0051
SCS_24h_Type_II_1.7in          21:45      0.0051
SCS_24h_Type_II_1.7in          22:00      0.0051
SCS_24h_Type_II_1.7in          22:15      0.0051
SCS_24h_Type_II_1.7in          22:30      0.0051
SCS_24h_Type_II_1.7in          22:45      0.0051
SCS_24h_Type_II_1.7in          23:00      0.0051
SCS_24h_Type_II_1.7in          23:15      0.0051
SCS_24h_Type_II_1.7in          23:30      0.0051
SCS_24h_Type_II_1.7in          23:45      0.0051
SCS_24h_Type_II_1.7in          24:00      0

;SCS_24h_Type_II_2.4in design storm, total rainfall = 2.4 in, rain units = in.
SCS_24h_Type_II_2.4in          0:00       0.0066
SCS_24h_Type_II_2.4in          0:15       0.0066
SCS_24h_Type_II_2.4in          0:30       0.0066
SCS_24h_Type_II_2.4in          0:45       0.0066
SCS_24h_Type_II_2.4in          1:00       0.0066
SCS_24h_Type_II_2.4in          1:15       0.0066
SCS_24h_Type_II_2.4in          1:30       0.0066
SCS_24h_Type_II_2.4in          1:45       0.0066
SCS_24h_Type_II_2.4in          2:00       0.0078
SCS_24h_Type_II_2.4in          2:15       0.0078
SCS_24h_Type_II_2.4in          2:30       0.0078
SCS_24h_Type_II_2.4in          2:45       0.0078
SCS_24h_Type_II_2.4in          3:00       0.0078
SCS_24h_Type_II_2.4in          3:15       0.0078
SCS_24h_Type_II_2.4in          3:30       0.0078
SCS_24h_Type_II_2.4in          3:45       0.0078
SCS_24h_Type_II_2.4in          4:00       0.0096
SCS_24h_Type_II_2.4in          4:15       0.0096
SCS_24h_Type_II_2.4in          4:30       0.0096
SCS_24h_Type_II_2.4in          4:45       0.0096
SCS_24h_Type_II_2.4in          5:00       0.0096
SCS_24h_Type_II_2.4in          5:15       0.0096
SCS_24h_Type_II_2.4in          5:30       0.0096
SCS_24h_Type_II_2.4in          5:45       0.0096
SCS_24h_Type_II_2.4in          6:00       0.0108
SCS_24h_Type_II_2.4in          6:15       0.0108
SCS_24h_Type_II_2.4in          6:30       0.0108
SCS_24h_Type_II_2.4in          6:45       0.0108
SCS_24h_Type_II_2.4in          7:00       0.0132
SCS_24h_Type_II_2.4in          7:15       0.0132
SCS_24h_Type_II_2.4in          7:30       0.0132
SCS_24h_Type_II_2.4in          7:45       0.0132
SCS_24h_Type_II_2.4in          8:00       0.0156
SCS_24h_Type_II_2.4in          8:15       0.0156
SCS_24h_Type_II_2.4in          8:30       0.0168
SCS_24h_Type_II_2.4in          8:45       0.0168
SCS_24h_Type_II_2.4in          9:00       0.0192
SCS_24h_Type_II_2.4in          9:15       0.0192
SCS_24h_Type_II_2.4in          9:30       0.0216
SCS_24h_Type_II_2.4in          9:45       0.0216
SCS_24h_Type_II_2.4in          10:00      0.0276
SCS_24h_Type_II_2.4in          10:15      0.0276
SCS_24h_Type_II_2.4in          10:30      0.0372
SCS_24h_Type_II_2.4in          10:45      0.0372
SCS_24h_Type_II_2.4in          11:00      0.0576
SCS_24h_Type_II_2.4in          11:15      0.0576
SCS_24h_Type_II_2.4in          11:30      0.178
SCS_24h_Type_II_2.4in          11:45      0.734
SCS_24h_Type_II_2.4in          12:00      0.0864
SCS_24h_Type_II_2.4in          12:15      0.0864
SCS_24h_Type_II_2.4in          12:30      0.0444
SCS_24h_Type_II_2.4in          12:45      0.0444
SCS_24h_Type_II_2.4in          13:00      0.0324
SCS_24h_Type_II_2.4in          13:15      0.0324
SCS_24h_Type_II_2.4in          13:30      0.0252
SCS_24h_Type_II_2.4in          13:45      0.0252
SCS_24h_Type_II_2.4in          14:00      0.018
SCS_24h_Type_II_2.4in          14:15      0.018
SCS_24h_Type_II_2.4in          14:30      0.018
SCS_24h_Type_II_2.4in          14:45      0.018
SCS_24h_Type_II_2.4in          15:00      0.018
SCS_24h_Type_II_2.4in          15:15      0.018
SCS_24h_Type_II_2.4in          15:30      0.018
SCS_24h_Type_II_2.4in          15:45      0.018
SCS_24h_Type_II_2.4in          16:00      0.0108
SCS_24h_Type_II_2.4in          16:15      0.0108
SCS_24h_Type_II_2.4in          16:30      0.0108
SCS_24h_Type_II_2.4in          16:45      0.0108
SCS_24h_Type_II_2.4in          17:00      0.0108
SCS_24h_Type_II_2.4in          17:15      0.0108
SCS_24h_Type_II_2.4in          17:30      0.0108
SCS_24h_Type_II_2.4in          17:45      0.0108
SCS_24h_Type_II_2.4in          18:00      0.0108
SCS_24h_Type_II_2.4in          18:15      0.0108
SCS_24h_Type_II_2.4in          18:30      0.0108
SCS_24h_Type_II_2.4in          18:45      0.0108
SCS_24h_Type_II_2.4in          19:00      0.0108
SCS_24h_Type_II_2.4in          19:15      0.0108
SCS_24h_Type_II_2.4in          19:30      0.0108
SCS_24h_Type_II_2.4in          19:45      0.0108
SCS_24h_Type_II_2.4in          20:00      0.0072
SCS_24h_Type_II_2.4in          20:15      0.0072
SCS_24h_Type_II_2.4in          20:30      0.0072
SCS_24h_Type_II_2.4in          20:45      0.0072
SCS_24h_Type_II_2.4in          21:00      0.0072
SCS_24h_Type_II_2.4in          21:15      0.0072
SCS_24h_Type_II_2.4in          21:30      0.0072
SCS_24h_Type_II_2.4in          21:45      0.0072
SCS_24h_Type_II_2.4in          22:00      0.0072
SCS_24h_Type_II_2.4in          22:15      0.0072
SCS_24h_Type_II_2.4in          22:30      0.0072
SCS_24h_Type_II_2.4in          22:45      0.0072
SCS_24h_Type_II_2.4in          23:00      0.0072
SCS_24h_Type_II_2.4in          23:15      0.0072
SCS_24h_Type_II_2.4in          23:30      0.0072
SCS_24h_Type_II_2.4in          23:45      0.0072
SCS_24h_Type_II_2.4in          24:00      0

;SCS_24h_Type_II_2.8in design storm, total rainfall = 2.8 in, rain units = in.
SCS_24h_Type_II_2.8in          0:00       0.0077
SCS_24h_Type_II_2.8in          0:15       0.0077
SCS_24h_Type_II_2.8in          0:30       0.0077
SCS_24h_Type_II_2.8in          0:45       0.0077
SCS_24h_Type_II_2.8in          1:00       0.0077
SCS_24h_Type_II_2.8in          1:15       0.0077
SCS_24h_Type_II_2.8in          1:30       0.0077
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SCS_24h_Type_II_2.8in	1:45	0.0077
SCS_24h_Type_II_2.8in	2:00	0.0091
SCS_24h_Type_II_2.8in	2:15	0.0091
SCS_24h_Type_II_2.8in	2:30	0.0091
SCS_24h_Type_II_2.8in	2:45	0.0091
SCS_24h_Type_II_2.8in	3:00	0.0091
SCS_24h_Type_II_2.8in	3:15	0.0091
SCS_24h_Type_II_2.8in	3:30	0.0091
SCS_24h_Type_II_2.8in	3:45	0.0091
SCS_24h_Type_II_2.8in	4:00	0.0112
SCS_24h_Type_II_2.8in	4:15	0.0112
SCS_24h_Type_II_2.8in	4:30	0.0112
SCS_24h_Type_II_2.8in	4:45	0.0112
SCS_24h_Type_II_2.8in	5:00	0.0112
SCS_24h_Type_II_2.8in	5:15	0.0112
SCS_24h_Type_II_2.8in	5:30	0.0112
SCS_24h_Type_II_2.8in	5:45	0.0112
SCS_24h_Type_II_2.8in	6:00	0.0126
SCS_24h_Type_II_2.8in	6:15	0.0126
SCS_24h_Type_II_2.8in	6:30	0.0126
SCS_24h_Type_II_2.8in	6:45	0.0126
SCS_24h_Type_II_2.8in	7:00	0.0154
SCS_24h_Type_II_2.8in	7:15	0.0154
SCS_24h_Type_II_2.8in	7:30	0.0154
SCS_24h_Type_II_2.8in	7:45	0.0154
SCS_24h_Type_II_2.8in	8:00	0.0182
SCS_24h_Type_II_2.8in	8:15	0.0182
SCS_24h_Type_II_2.8in	8:30	0.0196
SCS_24h_Type_II_2.8in	8:45	0.0196
SCS_24h_Type_II_2.8in	9:00	0.0224
SCS_24h_Type_II_2.8in	9:15	0.0224
SCS_24h_Type_II_2.8in	9:30	0.0252
SCS_24h_Type_II_2.8in	9:45	0.0252
SCS_24h_Type_II_2.8in	10:00	0.0322
SCS_24h_Type_II_2.8in	10:15	0.0322
SCS_24h_Type_II_2.8in	10:30	0.0434
SCS_24h_Type_II_2.8in	10:45	0.0434
SCS_24h_Type_II_2.8in	11:00	0.0672
SCS_24h_Type_II_2.8in	11:15	0.0672
SCS_24h_Type_II_2.8in	11:30	0.207
SCS_24h_Type_II_2.8in	11:45	0.857
SCS_24h_Type_II_2.8in	12:00	0.101
SCS_24h_Type_II_2.8in	12:15	0.101
SCS_24h_Type_II_2.8in	12:30	0.0518
SCS_24h_Type_II_2.8in	12:45	0.0518
SCS_24h_Type_II_2.8in	13:00	0.0378
SCS_24h_Type_II_2.8in	13:15	0.0378
SCS_24h_Type_II_2.8in	13:30	0.0294
SCS_24h_Type_II_2.8in	13:45	0.0294
SCS_24h_Type_II_2.8in	14:00	0.021
SCS_24h_Type_II_2.8in	14:15	0.021
SCS_24h_Type_II_2.8in	14:30	0.021
SCS_24h_Type_II_2.8in	14:45	0.021
SCS_24h_Type_II_2.8in	15:00	0.021
SCS_24h_Type_II_2.8in	15:15	0.021
SCS_24h_Type_II_2.8in	15:30	0.021
SCS_24h_Type_II_2.8in	15:45	0.021
SCS_24h_Type_II_2.8in	16:00	0.0126
SCS_24h_Type_II_2.8in	16:15	0.0126
SCS_24h_Type_II_2.8in	16:30	0.0126
SCS_24h_Type_II_2.8in	16:45	0.0126
SCS_24h_Type_II_2.8in	17:00	0.0126
SCS_24h_Type_II_2.8in	17:15	0.0126
SCS_24h_Type_II_2.8in	17:30	0.0126
SCS_24h_Type_II_2.8in	17:45	0.0126
SCS_24h_Type_II_2.8in	18:00	0.0126
SCS_24h_Type_II_2.8in	18:15	0.0126
SCS_24h_Type_II_2.8in	18:30	0.0126
SCS_24h_Type_II_2.8in	18:45	0.0126
SCS_24h_Type_II_2.8in	19:00	0.0126
SCS_24h_Type_II_2.8in	19:15	0.0126
SCS_24h_Type_II_2.8in	19:30	0.0126
SCS_24h_Type_II_2.8in	19:45	0.0126
SCS_24h_Type_II_2.8in	20:00	0.0084
SCS_24h_Type_II_2.8in	20:15	0.0084
SCS_24h_Type_II_2.8in	20:30	0.0084
SCS_24h_Type_II_2.8in	20:45	0.0084
SCS_24h_Type_II_2.8in	21:00	0.0084
SCS_24h_Type_II_2.8in	21:15	0.0084
SCS_24h_Type_II_2.8in	21:30	0.0084
SCS_24h_Type_II_2.8in	21:45	0.0084
SCS_24h_Type_II_2.8in	22:00	0.0084
SCS_24h_Type_II_2.8in	22:15	0.0084
SCS_24h_Type_II_2.8in	22:30	0.0084
SCS_24h_Type_II_2.8in	22:45	0.0084
SCS_24h_Type_II_2.8in	23:00	0.0084
SCS_24h_Type_II_2.8in	23:15	0.0084
SCS_24h_Type_II_2.8in	23:30	0.0084
SCS_24h_Type_II_2.8in	23:45	0.0084
SCS_24h_Type_II_2.8in	24:00	0

UDFCD100	0:05	0.0146
UDFCD100	0:10	0.0438
UDFCD100	0:15	0.06716
UDFCD100	0:20	0.1168
UDFCD100	0:25	0.2044
UDFCD100	0:30	0.365
UDFCD100	0:35	0.2044
UDFCD100	0:40	0.1168
UDFCD100	0:45	0.09052
UDFCD100	0:50	0.073
UDFCD100	0:55	0.0584
UDFCD100	1:00	0.0584
UDFCD100	1:05	0.0584
UDFCD100	1:10	0.0292
UDFCD100	1:15	0.0292
UDFCD100	1:20	0.01752
UDFCD100	1:25	0.01752
UDFCD100	1:30	0.01752
UDFCD100	1:35	0.01752
UDFCD100	1:40	0.01752
UDFCD100	1:45	0.01752
UDFCD100	1:50	0.01752
UDFCD100	1:55	0.01752
UDFCD100	2:00	0.01752
UDFCD100	2:05	0

Timeseries1	0:05	0.0156
Timeseries1	0:10	0.02886
Timeseries1	0:15	0.06786
Timeseries1	0:20	0.11934
Timeseries1	0:25	0.195
Timeseries1	0:30	0.1014
Timeseries1	0:35	0.04524
Timeseries1	0:40	0.03432
Timeseries1	0:45	0.02808

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Timeseries1                 0:50       0.02808
Timeseries1                 0:55       0.0234
Timeseries1                 1:00       0.0234
Timeseries1                 1:05       0.0234
Timeseries1                 1:10       0.0234
Timeseries1                 1:15       0.0195
Timeseries1                 1:20       0.01716
Timeseries1                 1:25       0.01716
Timeseries1                 1:30       0.01716
Timeseries1                 1:35       0.01716
Timeseries1                 1:40       0.0117
Timeseries1                 1:45       0.0117
Timeseries1                 1:50       0.0117
Timeseries1                 1:55       0.0117
Timeseries1                 2:00       0.01014
Timeseries1                 2:05       0


[REPORT]
INPUT      YES
CONTROLS   NO
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]

[MAP]
DIMENSIONS       2630018.50734642 1409483.95355741 2640273.6812438  1416855.77791551
UNITS            Feet

[COORDINATES]
;;Node           X-Coord          Y-Coord
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J4               2635450.041      1414358.937
J1               2631766.678      1412477.686
J-MI09           2631434.095      1413935.233
J-MI11           2632502.121      1414595.172
J-MI03           2632187.545      1412190.326
J-MI04           2633685.219      1410495.059
J-MI21           2635699.534      1412091.652
J-MI31           2635540.997      1415769.407
J-MI22           2635398.87       1412622.957
J-MI19           2634626.383      1410687.156
J-MI33           2637733.501      1415577.706
J-MI32           2636437.798      1415165.669
J-MI28           2635437.871      1414466.906
J-MI30           2635831.651      1414406.502
J-MI29           2635955.293      1413739.276
J-MI24           2634934          1413878.714
J-MI25           2634928.944      1414016.747
J-MI23           2634968.85       1413296.15
J-MI18           2634473.477      1411275.835
J-MI15           2634466.464      1411867.529
J-MI20           2634508.383      1411851.414
J-MI17           2634275.823      1410169.064
J-MI16           2633805.96       1410774.93
J-MI05           2633454.064      1411421.667
J-MI06           2632865.265      1412055.752
J-MI07           2632091.33       1412999.636
J-MI08           2632059.299      1413053.369
J-MI27           2634481.466      1415524
J-MI26           2633926.86       1414697.585
J-MI12           2633107          1414530.444
J-MI10           2632766.101      1413991.616
J-MI02           2630726.482      1413334.12
J-MI35           2634448.913      1414134.498
J-MI14           2634303.468      1412897.35
J-MI34           2633954.597      1413842.109
J-MI13           2634276.211      1414015.721
J2               2635133.925      1415150.763
J3               2633671.074      1410469.981
J5               2632171.464      1412178.956
J-MI01           2630579.704      1413365.354
OF1              2630559.839      1413349.874

[VERTICES]
;;Link           X-Coord          Y-Coord
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C21              2632987.57       1414223.354
C21              2632757.261      1414109.918
C23              2634386.613      1415447.086
C23              2634324.739      1415364.588
C23              2634276.614      1415285.526
C23              2634225.053      1415158.341
C23              2634187.241      1415031.155
C23              2634159.741      1414941.781
C23              2634121.929      1414859.282
C23              2634049.743      1414773.346
C23              2633987.869      1414714.909
C18              2635453.953      1412044.844
C18              2635407.547      1411487.972
C18              2635062.08       1411405.472
C18              2634819.737      1411312.66
C17              2635314.821      1412410.645
C17              2635078.194      1412322.351
C17              2634891.011      1412308.224
C17              2634714.424      1412237.589
C17              2634495.455      1412096.32
C19              2632241.644      1413700.861
C19              2632186.644      1413405.241
C19              2632210.707      1413205.868
C13              2633296.301      1411900.864
C13              2633031.254      1412065.077
C29              2635829.178      1413767.498
C29              2635567.051      1413680.123
C29              2635199.155      1413450.187
C11              2634068.392      1411137.416
C10              2634630.176      1410546.09
C10              2634634.498      1410425.089
C10              2634465.961      1410273.838
C12              2632440.662      1411958.483
C7               2633442.39       1410717.736
C7               2633180.743      1411205.497
C7               2632770.507      1411499.446
C7               2632573.465      1411480.065
C7               2632457.177      1411409
C7               2632382.882      1411337.936
C7               2632308.588      1411286.253
C7               2632159.998      1411325.015
C7               2632053.401      1411441.303
C7               2632008.178      1411593.122
C7               2632182.61       1411819.237
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C8	2633761.565	1410438.053
C4	2631786.531	1412807.963
C5	2631669.219	1412465.052
C5	2631465.277	1412347.741
C5	2631398.5	1412077.022
C5	2631286.603	1411999.416
C5	2631162.072	1411968.734
C5	2631008.664	1411986.782
C5	2630943.692	1412104.094
C5	2630956.325	1412259.306
C5	2631001.445	1412383.837
C5	2631039.346	1412641.922
C5	2631035.736	1412838.645
C5	2630985.202	1412916.251
C5	2630862.476	1413120.193
C5	2630770.431	1413215.847
C5	2630701.849	1413286.234
C5	2630636.877	1413329.549
C31	2635744.355	1414379.376
C31	2635607.417	1414442.735
C31	2635523.62	1414407.99
C33	2636224.145	1414986.03
C33	2635985.98	1414858.791
C33	2635845.691	1414725.027
C33	2635692.352	1414604.314
C34	2637551.996	1415648.324
C34	2637450.857	1415537.398
C34	2637238.792	1415397.109
C34	2636922.327	1415357.959
C34	2636628.699	1415292.708
C16	2634225.938	1413749.633
C16	2634241.586	1413377.986
C37	2633649.67	1413837.558
C37	2633453.718	1413837.558
C37	2633314.655	1413888.126
C37	2633162.951	1414052.473
C37	2632979.641	1414065.115
C28	2634661.12	1413535.42
C28	2634576.734	1413341.334
C36	2635110.632	1414923.659
C36	2635203.803	1414373.369
C36	2635197.98	1414323.873
C36	2635104.809	1414286.022
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[Polygons]

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MI15	2635364.759	1412583.384
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MI15	2635616.18	1412245.446
MI15	2635454.22	1412252.509
MI15	2635373.711	1412206.847
MI15	2635314.683	1412130.458
MI15	2635161.905	1412087.056
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MI18	2634448.129	1411825.806
MI18	2634690.938	1411818.619

MI18	2634789.18	1411764.744
MI18	2634830.379	1411647.486
MI18	2634830.379	1411371.773
MI18	2634850.516	1411308.429
MI18	2634806.876	1411222.265
MI18	2634704.793	1411074.348
MI18	2634649.932	1410986.153
MI18	2634635.349	1410936.848
MI18	2634618.856	1410754.122
MI18	2634622.668	1410681.761
MI18	2634559.075	1410684.906
MI18	2634456.888	1410703.007
MI18	2634461.992	1411237.072
MI18	2634441.304	1411237.046
MI22	2636127.53	1412464.209
MI22	2635616.18	1412245.446
MI22	2635539.026	1412388.968
MI22	2635502.953	1412453.523
MI22	2635418.925	1412545.19
MI22	2635364.759	1412583.384
MI22	2635322.398	1412602.134
MI22	2635378.571	1412708.415
MI22	2635466.29	1412834.29
MI22	2635565.512	1412893
MI22	2635776.366	1412937.837
MI22	2635908.465	1412946.347
MI22	2636064.715	1412963.274
MI22	2636207.944	1412969.784
MI22	2636330.184	1412945.512
MI22	2636127.53	1412464.209
MI11	2634070.81	1415223.304
MI11	2633915.127	1415219.939
MI11	2633789.189	1415170.16
MI11	2633557	1415023.496
MI11	2633503.921	1415003.512
MI11	2633392.824	1414962.776
MI11	2633285.431	1414936.854
MI11	2633207.663	1414903.525
MI11	2633096.566	1414855.383
MI11	2633015.095	1414755.396
MI11	2632892.889	1414696.144
MI11	2632804.012	1414625.783
MI11	2632741.057	1414573.938
MI11	2632627.692	1414525.627
MI11	2632461.884	1414525.627
MI11	2632374.912	1414660.669
MI11	2632457.392	1414714.377
MI11	2632542.461	1414848.058
MI11	2632581.524	1414940.94
MI11	2632638.815	1414937.468
MI11	2632697.843	1414894.933
MI11	2632793.329	1414861.947
MI11	2632887.513	1414895.367
MI11	2633117.548	1414990.853
MI11	2633228.225	1415051.617
MI11	2633347.583	1415092.85
MI11	2633440.899	1415118.891
MI11	2633521.194	1415168.804
MI11	2633627.531	1415236.079
MI11	2633731.697	1415272.971
MI11	2633866.246	1415301.183
MI11	2633992.746	1415362.725
MI11	2634010.543	1415335.09
MI11	2634070.81	1415223.304
MI10	2633264.086	1414377.491
MI10	2633430.101	1414096.458
MI10	2633430.664	1414070.57
MI10	2633513.872	1414068.049
MI10	2633655.51	1414071.564
MI10	2633660.502	1413896.52
MI10	2633657.939	1413839.201
MI10	2633607.433	1413736.255
MI10	2633539.356	1413693.496
MI10	2633510.805	1413665.914
MI10	2633494.139	1413652.893
MI10	2633467.055	1413643.518
MI10	2633452.472	1413639.351
MI10	2633434.764	1413644.039
MI10	2633412.889	1413642.997
MI10	2633394.66	1413632.06
MI10	2633387.368	1413614.351
MI10	2633381.639	1413578.935
MI10	2633375.91	1413549.247
MI10	2633373.045	1413540.079
MI10	2633370.745	1413544.191
MI10	2633359.143	1413623.552
MI10	2633300.191	1413816.013
MI10	2633277.545	1413869.09
MI10	2633230.568	1413922.472
MI10	2633129.006	1413988.879
MI10	2632994.891	1414018.826
MI10	2632929.787	1413988.879
MI10	2632829.527	1413921.17
MI10	2632752.704	1413923.774
MI10	2632685.235	1414062.182
MI10	2632537.448	1414368.834
MI10	2632461.884	1414525.627
MI10	2632627.692	1414525.627
MI10	2632741.057	1414573.938
MI10	2632804.012	1414625.783
MI10	2632892.889	1414696.144
MI10	2633015.095	1414755.396
MI10	2633093.928	1414624.391
MI10	2633078.65	1414586.891
MI10	2633060.657	1414508.95
MI10	2633167.515	1414416.554
MI10	2633264.086	1414377.491
MI09	2632433.289	1414570.027
MI09	2632328.774	1414504.864
MI09	2632268.01	1414483.163
MI09	2632208.331	1414456.036
MI09	2632130.206	1414392.017
MI09	2632049.911	1414327.998
MI09	2631919.703	1414249.873
MI09	2631832.897	1414176.088
MI09	2631733.071	1414070.836
MI09	2631594.182	1413956.904
MI09	2631582.246	1413913.501
MI09	2631307.666	1413796.253
MI09	2631242.261	1413932.439
MI09	2631183.667	1414134.262
MI09	2631151.115	1414843.898
MI09	2631128.625	1415088.785
MI09	2631579.619	1415084.397
MI09	2631918.404	1415085.228
MI09	2632093.423	1415011.535

MI09	2632306.153	1414767.43
MI09	2632374.912	1414660.669
MI09	2632433.289	1414570.027
MI07	2631971.375	1412937.599
MI07	2632093.998	1413037.229
MI07	2632180.803	1413111.014
MI07	2632402.157	1413189.139
MI07	2632547.557	1413169.608
MI07	2632944.692	1413213.011
MI07	2633137.834	1413301.986
MI07	2633400.602	1413490.64
MI07	2633424.244	1413448.545
MI07	2633574.651	1413297.099
MI07	2633740.923	1413124.326
MI07	2633906.803	1413007.456
MI07	2634044.692	1412909.436
MI07	2634113.566	1412875.089
MI07	2634205.215	1412876.092
MI07	2634254.043	1412888.028
MI07	2634271.921	1412855.798
MI07	2634200.032	1412831.968
MI07	2633987.392	1412737.665
MI07	2633892.318	1412664.775
MI07	2633862.126	1412650.954
MI07	2633810.15	1412536.606
MI07	2633731.157	1412541.814
MI07	2633612.233	1412477.578
MI07	2633490.706	1412460.217
MI07	2633388.545	1412427.854
MI07	2633105.437	1412301.089
MI07	2632974.446	1412225.03
MI07	2632825.689	1412093.177
MI07	2632742.735	1412019.649
MI07	2632562.528	1412228.998
MI07	2632419.472	1412395.665
MI07	2632280.583	1412563.026
MI07	2632126.33	1412741.845
MI07	2632070.774	1412808.251
MI07	2632022.928	1412866.959
MI07	2631979.244	1412928.947
MI07	2631971.375	1412937.599
MI02	2630680.191	1413342.734
MI02	2631307.666	1413796.253
MI02	2631400.681	1413602.578
MI02	2631537.4	1413383.394
MI02	2631721.862	1413211.953
MI02	2631979.244	1412928.947
MI02	2632022.928	1412866.959
MI02	2632070.774	1412808.251
MI02	2632126.33	1412741.845
MI02	2632280.583	1412563.026
MI02	2632406.808	1412410.925
MI02	2632162.368	1412195.699
MI02	2631995.701	1412318.095
MI02	2631912.368	1412391.012
MI02	2631761.326	1412497.782
MI02	2631654.555	1412474.345
MI02	2631511.854	1412398.845
MI02	2631445.882	1412348.498
MI02	2631435.805	1412281.637
MI02	2631378.514	1412073.303
MI02	2631265.67	1412010.638
MI02	2631158.899	1411984.596
MI02	2631015.67	1412000.221
MI02	2630960.983	1412120.013
MI02	2630971.399	1412265.846
MI02	2631020.878	1412385.638
MI02	2631036.503	1412528.867
MI02	2631057.337	1412643.451
MI02	2631059.941	1412810.117
MI02	2631031.295	1412898.659
MI02	2630908.899	1413080.951
MI02	2630809.941	1413218.971
MI02	2630708.378	1413297.096
MI02	2630680.191	1413342.734
MI04	2633179.162	1411204.907
MI04	2633268.708	1411282.773
MI04	2633268.708	1411391.28
MI04	2633012.632	1411692.93
MI04	2632955.263	1411769.356
MI04	2632990.804	1411793.05
MI04	2633051.71	1411834.405
MI04	2633090.897	1411783.462
MI04	2633187.468	1411702.082
MI04	2633213.726	1411709.46
MI04	2633277.232	1411622.082
MI04	2633352.319	1411503.159
MI04	2633409.177	1411428.94
MI04	2633519.42	1411270.086
MI04	2633612.736	1411158.107
MI04	2633641.816	1411114.27
MI04	2633692.597	1411145.52
MI04	2633740.785	1411169.955
MI04	2633804.576	1411223.645
MI04	2633748.066	1410958.81
MI04	2633763.743	1410906.567
MI04	2633763.309	1410827.574
MI04	2633804.541	1410679.57
MI04	2633831.017	1410617.07
MI04	2633847.676	1410588.889
MI04	2633848.799	1410561.392
MI04	2633686.171	1410457.987
MI04	2633652.823	1410538.416
MI04	2633503.083	1410677.305
MI04	2633427.549	1410742.299
MI04	2633429.294	1410756.853
MI04	2633380.934	1410858.18
MI04	2633311.847	1410959.507
MI04	2633228.944	1411123.011
MI04	2633194.4	1411187.492
MI04	2633179.162	1411204.907
MI35	2634451.7	1414103.715
MI35	2634421.393	1414169.063
MI35	2634396.654	1414249.792
MI35	2634374.518	1414318.802
MI35	2634385.959	1414395.072
MI35	2634463.06	1414394.323
MI35	2634483.893	1414575.313
MI35	2634509.75	1414632.188
MI35	2634570.193	1414773.223
MI35	2634587.463	1414845.179
MI35	2634598.633	1414903.823
MI35	2634635.718	1414878.528
MI35	2634688.489	1414786.873
MI35	2634813.473	1414623.006
MI35	2634924.615	1414464.551

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MI35            2634952.344     1414361.929
MI35            2634946.789     1414220.28
MI35            2634910.683     1414084.187
MI35            2634885.644     1413975.2
MI35            2634803.772     1414041.024
MI35            2634610.63      1414106.129
MI35            2634452.209     1414103.958
MI35            2634451.7       1414103.715
MI34            2634093.205     1413906.583
MI34            2634068.095     1413889.115
MI34            2633996.48      1413854.392
MI34            2633953.077     1413837.031
MI34            2633892.314     1413834.861
MI34            2633833.72      1413828.351
MI34            2633772.956     1413837.031
MI34            2633657.939     1413839.201
MI34            2633660.502     1413896.52
MI34            2633655.51      1414071.564
MI34            2633654.642     1414108.022
MI34            2633721.049     1414108.022
MI34            2633729.295     1414124.081
MI34            2633936.76      1414120.609
MI34            2633972.785     1414167.05
MI34            2633996.402     1414162.441
MI34            2634010.953     1414175.411
MI34            2634019.05      1414148.229
MI34            2634054.206     1414010.208
MI34            2634093.205     1413906.583

[SYMBOLS]
;;Gage           X-Coord         Y-Coord
;;-------------- --------------- ---------------
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[TITLE]
Soda Creek Basin - Future Conditions
UDFCD gauge 100 year 2 hr
Link C53 was rerouted from J6 to J-SO16,
C55 was rerouted from J-SO04 to J-SO17, and
C38 was rerouted from J-SO02 to J-SO18, per Ben Beall
C17 was rerouted from SO32 to J-SO34

[OPTIONS]
FLOW_UNITS           CFS
INFILTRATION         HORTON
FLOW_ROUTING         KINWAVE
START_DATE           08/06/2012
START_TIME           00:00:00
REPORT_START_DATE    08/06/2012
REPORT_START_TIME    00:00:00
END_DATE             08/08/2012
END_TIME             00:00:00
SWEEP_START          01/01
SWEEP_END            12/31
DRY_DAYS             0
REPORT_STEP          0:05:00
WET_STEP             0:05:00
DRY_STEP             0:05:00
ROUTING_STEP         300
ALLOW_PONDING        NO
INERTIAL_DAMPING     PARTIAL
VARIABLE_STEP        0.75
LENGTHENING_STEP     0
MIN_SURFAREA         0
NORMAL_FLOW_LIMITED  BOTH
SKIP_STEADY_STATE    NO
FORCE_MAIN_EQUATION  H-W
LINK_OFFSETS         DEPTH
MIN_SLOPE            0

[EVAPORATION]
;;Type          Parameters
;;------------- ----------
CONSTANT     0.0
DRY_ONLY     NO

[RAINGAGES]
;;               Rain      Time   Snow   Data
;;Name           Type      Intrvl Catch  Source
;;-------------- --------- ------ ------ ----------
rg100            INTENSITY 0:15   1.0    TIMESERIES SCS_24h_Type_II_2.8in
UDFCD100         VOLUME    0:05   1.0    TIMESERIES UDFCD100
UDFCD5           VOLUME    0:05   1.0    TIMESERIES Timeseries1

[SUBCATCHMENTS]
;;                                          Total    Pcnt.             Pcnt.    Curb
Snow
;;Name           Raingage         Outlet           Area     Imperv   Width    Slope    Length
Pack
;;-------------- ---------------- ---------------- -------- -------- -------- -------- --------
--------
;SO-G3
SO23             UDFCD100         J-SO23           6.63216  74.5     1735.88  1.14064  0
;SO-G4
SO22             UDFCD100         J-SO22           5.01269  81.5     918.082  2.03903  0
;SO-A4
SO31             UDFCD100         J-SO31           7.47994  42.9     1856.75  3.43072  0
;DFA-Y7
SO13             UDFCD100         J-SO13           1.65039  97.1     647.761  1.20415  0
SO47             UDFCD100         J-SO47           16574.9  2        105143   7.12859  0
;SO-C7,SO-C4
SO19             UDFCD100         J-SO19           7.34905  31       2420.9   9.55016  0
;SO-H3
SO17             UDFCD100         J-SO17           2.07119  96.2     628.566  1.65456  0
;SO-D2
SO20             UDFCD100         J-SO20           5.15544  69.5     886.291  6.63439  0
SO01             UDFCD100         J-SO01           2.02522  38.2     1286.84  2.61104  0
;DFA-Y10
SO07             UDFCD100         J-SO07           2.05782  97.3     1020.59  2.50836  0
;SO-H2
SO16             UDFCD100         J-SO16           2.78756  94.1     910.908  1.38324  0
;DFA-Y11
SO11             UDFCD100         J-SO11           2.72425  93.8     684.796  0.949188 0
;SO-H4
SO03             UDFCD100         J-SO03           0.359608 100      537.509  0.948821 0
;DFA-Y1
SO02             UDFCD100         J-SO02           2.48525  96.5     456.212  2.10428  0
;SO-D4
SO18             UDFCD100         J-SO18           2.79837  79.7     1031.92  2.48082  0
;SO-D1
SO26             UDFCD100         J-SO26           5.9822   49.4     1285.14  5.13561  0
;SO-C5
SO27             UDFCD100         J-SO27           3.11539  60.9     1473.33  7.38463  0
;SO-B9
SO29             UDFCD100         J-SO29           4.83206  48.2     1250.86  3.47761  0
;SO-D3
SO21             UDFCD100         J-SO21           3.75767  71.8     1128.63  6.45028  0
;SO-G2
SO24             UDFCD100         J-SO24           6.75291  67.5     1331.22  2.14841  0
;DFA-Y2
SO04             UDFCD100         J-SO04           0.274271 100      668.112  1.7063   0
;SO-B11
SO25             UDFCD100         J-SO25           6.20014  46.6     1176.94  4.29927  0
;DFA-Y4,DFA-Y3
SO05             UDFCD100         J-SO05           3.49397  97.2     853.84   1.96758  0
;DFA-Y5
SO06             UDFCD100         J-SO06           3.40898  97.1     703.194  2.7304   0
;DFA-Y13
SO08             UDFCD100         J-SO08           1.33934  96.8     573.092  3.62943  0
;DFA-Y12
SO09             UDFCD100         J-SO09           1.43598  96.7     382.958  4.75248  0
;DFA-Y12
SO10             UDFCD100         J-SO10           0.382782 99.7     468.058  0.683676 0
;DFA-Y8
SO14             UDFCD100         J-SO14           0.240276 100      467.894  2.17998  0
;DFA-Y9
SO12             UDFCD100         J-SO12           1.76267  97.3     441.405  0.883543 0
;SO-H1
SO15             UDFCD100         J-SO15           2.78104  94.3     945.176  1.2696   0
;SO-B10
SO30             UDFCD100         J-SO30           2.2947   42.3     992.212  3.26543  0
;SO-G1,SO-F9
SO32             UDFCD100         J-SO32           13.837   60.8     1930.88  2.10267  0
;SO-F6
SO35             UDFCD100         J-SO35           6.56982  66.2     2536.49  4.35248  0
;SO-F8
SO33             UDFCD100         J-SO33           2.52353  65.8     924.768  2.76826  0
;SO-F7
SO34             UDFCD100         J-SO34           6.03088  25.6     1005.69  3.93758  0
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;SO-F5
SO36            UDFCD100        J-SO36          12.2257  56      3618.21  6.01403  0
;SO-F4
SO39            UDFCD100        J-SO39          3.04111  73.7    419.867  8.38361  0
;SO-F3
SO38            UDFCD100        J-SO38          2.26771  60.2    716.201  5.02652  0
;SO-A3
SO41            UDFCD100        J-SO41          2.96816  37.7    1117.68  7.98973  0
;SO-A1
SO42            UDFCD100        J-SO42          10.1179  40.7    2450.49  12.6383  0
;SO-A2
SO43            UDFCD100        J-SO43          8.27728  35      1867.29  9.60749  0
;SO-E2,SO-E1
SO40            UDFCD100        J-SO40          4.99036  41      1510.53  4.05156  0
;SO-E1
SO44            UDFCD100        J-SO44          2.12079  51.5    470.402  13.9455  0
;SO-F1
SO50            UDFCD100        J-SO50          7.52108  42.5    2381.98  13.938   0
;SO-F3,SO-F1
SO37            UDFCD100        J-SO37          28.948   20.3    3571.26  11.811   0
;SO-E1
SO45            UDFCD100        J-SO45          4.96291  47.1    1763.37  14.5176  0
;SO-B7,SO-B8
SO28            UDFCD100        J-SO28          8.87396  45.5    1105.08  5.47471  0
;SO-B3,SO-B6
SO48            UDFCD100        J-SO48          118.072  15.9    9516.3   11.8954  0
;SO-C3,S0-C6,SO-C1,SO-C2
SO49            UDFCD100        J-SO49          69.8887  10.9    7041.46  16.1898  0
;SO-E1
SO46            UDFCD100        J-SO46          6.31922  60.5    1898.88  11.4594  0
SO51            UDFCD100        J-SO001         1.32     25      500      0.5      0

[SUBAREAS]
;;Subcatchment   N-Imperv   N-Perv     S-Imperv   S-Perv     PctZero    RouteTo    PctRouted
;;-------------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
SO23            0.02       0.2        0.1        0.35       10         OUTLET
SO22            0.02       0.2        0.1        0.35       10         OUTLET
SO31            0.02       0.2        0.1        0.35       10         OUTLET
SO13            0.02       0.2        0.1        0.35       10         OUTLET
SO47            0.02       0.2        0.1        0.35       10         OUTLET
SO19            0.02       0.2        0.1        0.35       10         OUTLET
SO17            0.02       0.2        0.1        0.35       10         OUTLET
SO20            0.02       0.2        0.1        0.35       10         OUTLET
SO001           0.02       0.2        0.1        0.35       10         OUTLET
SO007           0.02       0.2        0.1        0.35       10         OUTLET
SO016           0.02       0.2        0.1        0.35       10         OUTLET
SO011           0.02       0.2        0.1        0.35       10         OUTLET
SO003           0.02       0.2        0.1        0.35       10         OUTLET
SO002           0.02       0.2        0.1        0.35       10         OUTLET
SO018           0.02       0.2        0.1        0.35       10         OUTLET
SO026           0.02       0.2        0.1        0.35       10         OUTLET
SO027           0.02       0.2        0.1        0.35       10         OUTLET
SO029           0.02       0.2        0.1        0.35       10         OUTLET
SO021           0.02       0.2        0.1        0.35       10         OUTLET
SO024           0.02       0.2        0.1        0.35       10         OUTLET
SO004           0.02       0.2        0.1        0.35       10         OUTLET
SO025           0.02       0.2        0.1        0.35       10         OUTLET
SO005           0.02       0.2        0.1        0.35       10         OUTLET
SO006           0.02       0.2        0.1        0.35       10         OUTLET
SO008           0.02       0.2        0.1        0.35       10         OUTLET
SO009           0.02       0.2        0.1        0.35       10         OUTLET
SO010           0.02       0.2        0.1        0.35       10         OUTLET
SO014           0.02       0.2        0.1        0.35       10         OUTLET
SO012           0.02       0.2        0.1        0.35       10         OUTLET
SO015           0.02       0.2        0.1        0.35       10         OUTLET
SO030           0.02       0.2        0.1        0.35       10         OUTLET
SO032           0.02       0.2        0.1        0.35       10         OUTLET
SO035           0.02       0.2        0.1        0.35       10         OUTLET
SO033           0.02       0.2        0.1        0.35       10         OUTLET
SO034           0.02       0.2        0.1        0.35       10         OUTLET
SO036           0.02       0.2        0.1        0.35       10         OUTLET
SO039           0.02       0.2        0.1        0.35       10         OUTLET
SO038           0.02       0.2        0.1        0.35       10         OUTLET
SO041           0.02       0.2        0.1        0.35       10         OUTLET
SO042           0.02       0.2        0.1        0.35       10         OUTLET
SO043           0.02       0.2        0.1        0.35       10         OUTLET
SO040           0.02       0.2        0.1        0.35       10         OUTLET
SO044           0.02       0.2        0.1        0.35       10         OUTLET
SO050           0.02       0.2        0.1        0.35       10         OUTLET
SO037           0.02       0.2        0.1        0.35       10         OUTLET
SO045           0.02       0.2        0.1        0.35       10         OUTLET
SO028           0.02       0.2        0.1        0.35       10         OUTLET
SO048           0.02       0.2        0.1        0.35       10         OUTLET
SO049           0.02       0.2        0.1        0.35       10         OUTLET
SO046           0.02       0.2        0.1        0.35       10         OUTLET
SO051           0.01       0.1        0.05       0.05       25         OUTLET

[INFILTRATION]
;;Subcatchment   MaxRate    MinRate    Decay      DryTime    MaxInfil
;;-------------- ---------- ---------- ---------- ---------- ----------
SO23            3          0.5        6.48       7          0
SO22            3          0.5        6.48       7          0
SO31            3          0.5        6.48       7          0
SO13            3          0.5        6.48       7          0
SO47            3          0.5        6.48       7          0
SO19            3          0.5        6.48       7          0
SO17            3          0.5        6.48       7          0
SO20            3          0.5        6.48       7          0
SO001           3          0.5        6.48       7          0
SO007           3          0.5        6.48       7          0
SO016           3          0.5        6.48       7          0
SO011           3          0.5        6.48       7          0
SO003           3          0.5        6.48       7          0
SO002           3          0.5        6.48       7          0
SO018           3          0.5        6.48       7          0
SO026           3          0.5        6.48       7          0
SO027           3          0.5        6.48       7          0
SO029           3          0.5        6.48       7          0
SO021           3          0.5        6.48       7          0
SO024           3          0.5        6.48       7          0
SO004           3          0.5        6.48       7          0
SO025           3          0.5        6.48       7          0
SO005           3          0.5        6.48       7          0
SO006           3          0.5        6.48       7          0
SO008           3          0.5        6.48       7          0
SO009           3          0.5        6.48       7          0
SO010           3          0.5        6.48       7          0
SO014           3          0.5        6.48       7          0
SO012           3          0.5        6.48       7          0
SO015           3          0.5        6.48       7          0
SO030           3          0.5        6.48       7          0
SO032           3          0.5        6.48       7          0
SO035           3          0.5        6.48       7          0
SO033           3          0.5        6.48       7          0
SO034           3          0.5        6.48       7          0
SO036           3          0.5        6.48       7          0
```

```
SO39            3          0.5        6.48       7          0
SO38            3          0.5        6.48       7          0
SO41            3          0.5        6.48       7          0
SO42            3          0.5        6.48       7          0
SO43            3          0.5        6.48       7          0
SO40            3          0.5        6.48       7          0
SO44            3          0.5        6.48       7          0
SO50            3          0.5        6.48       7          0
SO37            3          0.5        6.48       7          0
SO45            3          0.5        6.48       7          0
SO28            3          0.5        6.48       7          0
SO48            3          0.5        6.48       7          0
SO49            3          0.5        6.48       7          0
SO46            3          0.5        6.48       7          0
SO51            3          0.5        4          7          0

[JUNCTIONS]
;;              Invert     Max.       Init.      Surcharge  Ponded
;;Name          Elev.      Depth      Depth      Depth      Area
;;-------------- ---------- ---------- ---------- ---------- ----------
J-SO19          6706       0          0          0          0
J5              6703       0          0          0          0
J-SO03          6701       0          0          0          0
J-SO02          6694       0          0          0          0
J-SO17          6701       0          0          0          0
J-SO20          6714       0          0          0          0
J-SO49          6750       0          0          0          0
J-SO27          6750       0          0          0          0
J-SO28          6763       0          0          0          0
J-SO29          6752       0          0          0          0
J-SO31          6723       0          0          0          0
J-SO24          6714       0          0          0          0
J-SO23          6722       0          0          0          0
J-SO18          6696       0          0          0          0
J-SO22          6704       0          0          0          0
J-SO05          6698       0          0          0          0
J-SO13          6719       0          0          0          0
J-SO12          6717       0          0          0          0
J-SO26          6750       0          0          0          0
J-SO16          6705       0          0          0          0
J-SO21          6704       0          0          0          0
J-SO04          6698       0          0          0          0
J-SO25          6714       0          0          0          0
J-SO06          6700       0          0          0          0
J-SO08          6704.5     0          0          0          0
J-SO07          6704       0          0          0          0
J-SO09          6706       0          0          0          0
J-SO11          6721       0          0          0          0
J-SO14          6717       0          0          0          0
J-SO15          6712       0          0          0          0
J-SO30          6752       0          0          0          0
J-SO32          6723       0          0          0          0
J-SO35          6752       0          0          0          0
J-SO33          6732       0          0          0          0
J-SO34          6740       0          0          0          0
J-SO40          6742       0          0          0          0
J-SO44          6752       0          0          0          0
J-SO36          6754       0          0          0          0
J-SO39          6770       0          0          0          0
J-SO38          6778       0          0          0          0
J-SO47          6756       0          0          0          0
J-SO41          6738       0          0          0          0
J-SO42          6777       0          0          0          0
J-SO43          6742       0          0          0          0
J-SO46          6790       0          0          0          0
J-SO37          6778       0          0          0          0
J-SO45          6750       0          0          0          0
J-SO48          6774       0          0          0          0
J-SO10          6720       0          0          0          0
J-SO50          6804       0          0          0          0
J1              6768       0          0          0          0
J2              6748       0          0          0          0
J4              6703       0          0          0          0
J6              6700       0          0          0          0
J-SO01          6688       0          0          0          0
J3              6698       0          0          0          0
J7              6704       0          0          0          0

[OUTFALLS]
;;              Invert     Outfall    Stage/Table      Tide
;;Name          Elev.      Type       Time Series      Gate
;;-------------- ---------- ---------- ---------------- ----
OF1             6688       FREE                         NO

[CONDUITS]
;;              Inlet            Outlet                      Manning    Inlet      Outlet
Init.      Max.
;;Name          Node             Node             Length     N          Offset     Offset
Flow       Flow
;;-------------- ---------------- ---------------- ---------- ---------- ---------- ----------
---------- ----------
C1              J-SO38           J-SO39           172.51     0.01       0          0
0          0
C2              J-SO37           J1               759.47     0.01       0          0
0          0
C3              J-SO39           J1               318.16     0.01       0          0
0          0
C4              J1               J-SO36           747.86     0.01       0          0
0          0
C5              J-SO36           J-SO35           115.42     0.01       0          0
0          0
C6              J-SO47           J-SO45           400.14     0.01       0          0
0          0
C7              J-SO45           J2               151.48     0.01       0          0
0          0
C8              J-SO43           J-SO40           25.65      0.01       0          0
0          0
C9              J-SO42           J-SO43           195.83     0.01       0          0
0          0
C10             J2               J-SO40           625.47     0.01       0          0
0          0
C11             J-SO44           J2               161.22     0.01       0          0
0          0
C12             J-SO46           J-SO44           437.03     0.01       0          0
0          0
C13             J-SO50           J-SO38           380.06     0.01       0          0
0          0
C14             J-SO40           J-SO41           184.43     0.01       0          0
0          0
C15             J-SO41           J-SO33           467.41     0.01       0          0
0          0
C16             J-SO34           J-SO33           351.27     0.01       0          0
0          0
C17             J-SO35           J-SO34           349.95     0.01       0          0
0          0
```

```
C19              J-SO48           J-SO28           330.37     0.01       0          0
0          0
C20              J-SO28           J-SO30           408.11     0.01       0          0
0          0
C21              J-SO30           J-SO31           378.17     0.01       0          0
0          0
C22              J-SO29           J-SO30           36.15      0.01       0          0
0          0
C23              J-SO33           J-SO32           822.23     0.01       0          0
0          0
C24              J-SO31           J-SO32           15.93      0.01       0          0
0          0
C25              J-SO32           J-SO24           490.45     0.01       0          0
0          0
C26              J-SO25           J-SO24           19.78      0.01       0          0
0          0
C27              J-SO24           J-SO22           677.32     0.01       0          0
0          0
C28              J-SO21           J-SO22           12.09      0.01       0          0
0          0
C29              J-SO20           J4               116.66     0.01       0          0
0          0
C30              J-SO22           J4               91.1       0.01       0          0
0          0
C31              J-SO26           J-SO20           436.55     0.01       0          0
0          0
C32              J-SO49           J-SO19           641.29     0.01       0          0
0          0
C33              J-SO27           J-SO18           601.18     0.01       0          0
0          0
C34              J-SO19           J-SO18           60.58      0.01       0          0
0          0
C35              J-SO18           J-SO01           498.46     0.01       0          0
0          0
C36              J4               J-SO18           535.08     0.01       0          0
0          0
C37              J-SO17           J-SO18           221.65     0.01       0          0
0          0
C38              J-SO03           J-SO17           67.4       0.01       0          0
0          0
C39              J-SO02           OF1              402.13     0.01       0          0
0          0
C40              J-SO04           J-SO05           34.22      0.01       0          0
0          0
C41              J3               J-SO02           334.88     0.01       0          0
0          0
C42              J-SO06           J6               27.61      0.01       0          0
0          0
C43              J-SO14           J5               423.48     0.01       0          0
0          0
C44              J-SO08           J7               206.51     0.01       0          0
0          0
C45              J-SO09           J-SO08           166.48     0.01       0          0
0          0
C46              J-SO10           J-SO09           327.42     0.01       0          0
0          0
C47              J-SO11           J-SO10           76.32      0.01       0          0
0          0
C48              J-SO12           J-SO07           400.09     0.01       0          0
0          0
C49              J-SO23           J-SO13           204.19     0.01       0          0
0          0
C50              J-SO13           J-SO12           176.28     0.01       0          0
0          0
C51              J7               J6               329.3      0.01       0          0
0          0
C52              J5               J-SO06           274.31     0.01       0          0
0          0
C53              J-SO15           J-SO16           373.62     0.01       0          0
0          0
C54              J6               J3               452.11     0.01       0          0
0          0
C55              J-SO16           J-SO17           317.49     0.01       0          0
0          0
C18              J-SO01           OF1              12.26      0.01       0          0
0          0
C56              J-SO05           J3               18.74      0.01       0          0
0          0
C57              J-SO07           J7               17.66      0.01       0          0
0          0
```

[XSECTIONS]

```
;;Link           Shape        Geom1            Geom2      Geom3      Geom4      Barrels
;;-------------- ------------ ---------------- ---------- ---------- ---------- ----------
C1               IRREGULAR    street-overflow  0          0          0          1
C2               IRREGULAR    street-overflow  0          0          0          1
C3               IRREGULAR    street-main      0          0          0          1
C4               IRREGULAR    street-overflow  0          0          0          1
C5               IRREGULAR    street-main      0          0          0          1
C6               IRREGULAR    channel-main3rd  0          0          0          1
C7               IRREGULAR    channel-main3rd  0          0          0          1
C8               DUMMY        0                0          0          0          1
C9               IRREGULAR    street-overflow  0          0          0          1
C10              IRREGULAR    channel-main3rd  0          0          0          1
C11              IRREGULAR    channel-main1st  0          0          0          1
C12              IRREGULAR    channel-overflow1a 0          0          0          1
C13              IRREGULAR    channel-overflow1s 0          0          0          1
C14              IRREGULAR    channel-main3rd  0          0          0          1
C15              IRREGULAR    channel-main3rd  0          0          0          1
C16              IRREGULAR    channel-overflow1s 0          0          0          1
C17              IRREGULAR    street-overflow  0          0          0          1
C19              IRREGULAR    street-overflow  0          0          0          1
C20              IRREGULAR    street-overflow  0          0          0          1
C21              IRREGULAR    street-overflow  0          0          0          1
C22              IRREGULAR    largeriver       0          0          0          1
C23              IRREGULAR    channel-main3rd  0          0          0          1
C24              DUMMY        0                0          0          0          1
C25              IRREGULAR    channel-main3rd  0          0          0          1
C26              IRREGULAR    largeriver       0          0          0          1
C27              IRREGULAR    channel-main3rd  0          0          0          1
C28              IRREGULAR    largeriver       0          0          0          1
C29              IRREGULAR    street-overflow  0          0          0          1
C30              IRREGULAR    channel-main3rd  0          0          0          1
C31              IRREGULAR    street-overflow  0          0          0          1
C32              IRREGULAR    street-overflow  0          0          0          1
C33              IRREGULAR    street-overflow  0          0          0          1
C34              DUMMY        0                0          0          0          1
C35              IRREGULAR    channel-overflow3r 0          0          0          1
C36              IRREGULAR    channel-main3rd  0          0          0          1
C37              IRREGULAR    street-overflow  0          0          0          1
C38              IRREGULAR    street-overflow  0          0          0          1
C39              IRREGULAR    largeriver       0          0          0          1
C40              IRREGULAR    largeriver       0          0          0          1
C41              IRREGULAR    largeriver       0          0          0          1
C42              DUMMY        0                0          0          0          1
```

```
C43              IRREGULAR    street-overflow  0          0          0          1
C44              IRREGULAR    street-overflow  0          0          0          1
C45              IRREGULAR    street-overflow  0          0          0          1
C46              IRREGULAR    street-overflow  0          0          0          1
C47              IRREGULAR    street-main      0          0          0          1
C48              IRREGULAR    street-overflow  0          0          0          1
C49              IRREGULAR    street-main      0          0          0          1
C50              IRREGULAR    street-main      0          0          0          1
C51              IRREGULAR    largeriver       0          0          0          1
C52              IRREGULAR    street-overflow  0          0          0          1
C53              IRREGULAR    street-overflow  0          0          0          1
C54              IRREGULAR    largeriver       0          0          0          1
C55              IRREGULAR    street-overflow  0          0          0          1
C18              DUMMY        0                0          0          0          1
C56              DUMMY        0                0          0          0          1
C57              DUMMY        0                0          0          0          1
```

[TRANSECTS]

```
NC 0.0625   0.0625   0.0375
X1 channel-main1st  8        4        8        0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        8
GR 0.5      8        1.5      12       5.5      28

NC 0.0625   0.0625   0.0375
X1 channel-main2nd  8        4        12       0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        12
GR 0.5      12       1.5      16       5.5      32

NC 0.0625   0.0625   0.0375
X1 channel-main3rd  8        4        16       0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        16
GR 0.5      16       1.5      20       5.5      36

NC 0.0625   0.0625   0.0375
X1 channel-overflow1s 8        20       28       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        28
GR 1        28       2        48       6        128

NC 0.0625   0.0625   0.0375
X1 channel-overflow2n 8        20       35       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        35
GR 1        35       2        55       6        135

NC 0.0625   0.0625   0.0375
X1 channel-overflow3r 8        20       50       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        60
GR 1        60       2        80       6        160

NC 0.0625   0.0625   0.01875
X1 street-main      9        6        30.5     0.0       0.0       0.0      0.0      0.0
GR 7        -18      1        0        0        3        1        6        1.25     18.5
GR 1        30.5     0        33.5     1        36.5     7        54.5

NC 0.0625   0.0625   0.01875
X1 street-overflow  11       13       53       0.0       0.0       0.0      0.0      0.0
GR 3        -20      2        0        0        6        0        7        2        13
GR 2.4      33       2        53       0        59       0        60       2        66
GR 3        86

NC 0.0625   0.0625   0.035
X1 largeriver       12       21       41       0.0       0.0       0.0      0.0      0.0
GR 10       -45      7        -45      5        -5       4        15       2        21
GR 0        21       0        41       2        41       4        47       5        67
GR 7        107      10       107

NC 0.122    0.122    0.073
X1 channel-main1a   8        4        8        0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        8
GR 0.5      8        1.5      12       5.5      28

NC 0.122    0.122    0.073
X1 channel-overflow1a 8        20       28       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        28
GR 1        28       2        48       6        128

NC 0.122    0.122    0.073
X1 Channel-overflow2a 8        20       35       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        35
GR 1        35       2        55       6        135
```

[LOSSES]

```
;;Link           Inlet      Outlet     Average    Flap Gate
;;-------------- ---------- ---------- ---------- ----------
```

[TIMESERIES]

```
;;Name           Date       Time       Value
;;-------------- ---------- ---------- ----------
;SCS_24h_Type_II_2.8in design storm, total rainfall = 2.8 in, rain units = in/hr.
SCS_24h_Type_II_2.8in            0:00       0
SCS_24h_Type_II_2.8in            0:15       0.03696
SCS_24h_Type_II_2.8in            0:30       0.03696
SCS_24h_Type_II_2.8in            0:45       0.03808
SCS_24h_Type_II_2.8in            1:00       0.03696
SCS_24h_Type_II_2.8in            1:15       0.03696
SCS_24h_Type_II_2.8in            1:30       0.03808
SCS_24h_Type_II_2.8in            1:45       0.03696
SCS_24h_Type_II_2.8in            2:00       0.03696
SCS_24h_Type_II_2.8in            2:15       0.03808
SCS_24h_Type_II_2.8in            2:30       0.03696
SCS_24h_Type_II_2.8in            2:45       0.03696
SCS_24h_Type_II_2.8in            3:00       0.03808
SCS_24h_Type_II_2.8in            3:15       0.03696
SCS_24h_Type_II_2.8in            3:30       0.03696
SCS_24h_Type_II_2.8in            3:45       0.03808
SCS_24h_Type_II_2.8in            4:00       0.03696
SCS_24h_Type_II_2.8in            4:15       0.03696
SCS_24h_Type_II_2.8in            4:30       0.03808
SCS_24h_Type_II_2.8in            4:45       0.03696
SCS_24h_Type_II_2.8in            5:00       0.03696
SCS_24h_Type_II_2.8in            5:15       0.03808
SCS_24h_Type_II_2.8in            5:30       0.03696
SCS_24h_Type_II_2.8in            5:45       0.03696
SCS_24h_Type_II_2.8in            6:00       0.03808
SCS_24h_Type_II_2.8in            6:15       0.03696
SCS_24h_Type_II_2.8in            6:30       0.03696
SCS_24h_Type_II_2.8in            6:45       0.03808
SCS_24h_Type_II_2.8in            7:00       0.03696
SCS_24h_Type_II_2.8in            7:15       0.03696
SCS_24h_Type_II_2.8in            7:30       0.03808
SCS_24h_Type_II_2.8in            7:45       0.07392
SCS_24h_Type_II_2.8in            8:00       0.07504
SCS_24h_Type_II_2.8in            8:15       0.07504
SCS_24h_Type_II_2.8in            8:30       0.07392
SCS_24h_Type_II_2.8in            8:45       0.07504
SCS_24h_Type_II_2.8in            9:00       0.07504
```

```
SCS_24h_Type_II_2.8in           9:15      0.112
SCS_24h_Type_II_2.8in           9:30      0.112
SCS_24h_Type_II_2.8in           9:45      0.112
SCS_24h_Type_II_2.8in           10:00     0.112
SCS_24h_Type_II_2.8in           10:15     0.112
SCS_24h_Type_II_2.8in           10:30     0.112
SCS_24h_Type_II_2.8in           10:45     0.224
SCS_24h_Type_II_2.8in           11:00     0.224
SCS_24h_Type_II_2.8in           11:15     0.336
SCS_24h_Type_II_2.8in           11:30     0.56
SCS_24h_Type_II_2.8in           11:45     0.672
SCS_24h_Type_II_2.8in           12:00     1.344
SCS_24h_Type_II_2.8in           12:15     1.344
SCS_24h_Type_II_2.8in           12:30     0.672
SCS_24h_Type_II_2.8in           12:45     0.56
SCS_24h_Type_II_2.8in           13:00     0.336
SCS_24h_Type_II_2.8in           13:15     0.224
SCS_24h_Type_II_2.8in           13:30     0.224
SCS_24h_Type_II_2.8in           13:45     0.112
SCS_24h_Type_II_2.8in           14:00     0.112
SCS_24h_Type_II_2.8in           14:15     0.112
SCS_24h_Type_II_2.8in           14:30     0.112
SCS_24h_Type_II_2.8in           14:45     0.112
SCS_24h_Type_II_2.8in           15:00     0.112
SCS_24h_Type_II_2.8in           15:15     0.07392
SCS_24h_Type_II_2.8in           15:30     0.07504
SCS_24h_Type_II_2.8in           15:45     0.07504
SCS_24h_Type_II_2.8in           16:00     0.07392
SCS_24h_Type_II_2.8in           16:15     0.07504
SCS_24h_Type_II_2.8in           16:30     0.07504
SCS_24h_Type_II_2.8in           16:45     0.03696
SCS_24h_Type_II_2.8in           17:00     0.03696
SCS_24h_Type_II_2.8in           17:15     0.03808
SCS_24h_Type_II_2.8in           17:30     0.03696
SCS_24h_Type_II_2.8in           17:45     0.03696
SCS_24h_Type_II_2.8in           18:00     0.03808
SCS_24h_Type_II_2.8in           18:15     0.03696
SCS_24h_Type_II_2.8in           18:30     0.03696
SCS_24h_Type_II_2.8in           18:45     0.03808
SCS_24h_Type_II_2.8in           19:00     0.03696
SCS_24h_Type_II_2.8in           19:15     0.03696
SCS_24h_Type_II_2.8in           19:30     0.03808
SCS_24h_Type_II_2.8in           19:45     0.03696
SCS_24h_Type_II_2.8in           20:00     0.03696
SCS_24h_Type_II_2.8in           20:15     0.03808
SCS_24h_Type_II_2.8in           20:30     0.03696
SCS_24h_Type_II_2.8in           20:45     0.03696
SCS_24h_Type_II_2.8in           21:00     0.03808
SCS_24h_Type_II_2.8in           21:15     0.03696
SCS_24h_Type_II_2.8in           21:30     0.03696
SCS_24h_Type_II_2.8in           21:45     0.03808
SCS_24h_Type_II_2.8in           22:00     0.03696
SCS_24h_Type_II_2.8in           22:15     0.03696
SCS_24h_Type_II_2.8in           22:30     0.03808
SCS_24h_Type_II_2.8in           22:45     0.03696
SCS_24h_Type_II_2.8in           23:00     0.03696
SCS_24h_Type_II_2.8in           23:15     0.03808
SCS_24h_Type_II_2.8in           23:30     0.03696
SCS_24h_Type_II_2.8in           23:45     0.03696
SCS_24h_Type_II_2.8in           24:00     0.03808

UDFCD100                    0:05      0.0146
UDFCD100                    0:10      0.0438
UDFCD100                    0:15      0.06716
UDFCD100                    0:20      0.1168
UDFCD100                    0:25      0.2044
UDFCD100                    0:30      0.365
UDFCD100                    0:35      0.2044
UDFCD100                    0:40      0.1168
UDFCD100                    0:45      0.09052
UDFCD100                    0:50      0.073
UDFCD100                    0:55      0.0584
UDFCD100                    1:00      0.0584
UDFCD100                    1:05      0.0584
UDFCD100                    1:10      0.0292
UDFCD100                    1:15      0.0292
UDFCD100                    1:20      0.01752
UDFCD100                    1:25      0.01752
UDFCD100                    1:30      0.01752
UDFCD100                    1:35      0.01752
UDFCD100                    1:40      0.01752
UDFCD100                    1:45      0.01752
UDFCD100                    1:50      0.01752
UDFCD100                    1:55      0.01752
UDFCD100                    2:00      0.01752
UDFCD100                    2:05      0

;SCS_24h_Type_II_1.7in design storm, total rainfall = 1.7 in, rain units = in.
SCS_24h_Type_II_1.7in           0:00      0.00468
SCS_24h_Type_II_1.7in           0:15      0.00468
SCS_24h_Type_II_1.7in           0:30      0.00468
SCS_24h_Type_II_1.7in           0:45      0.00468
SCS_24h_Type_II_1.7in           1:00      0.00468
SCS_24h_Type_II_1.7in           1:15      0.00468
SCS_24h_Type_II_1.7in           1:30      0.00468
SCS_24h_Type_II_1.7in           1:45      0.00468
SCS_24h_Type_II_1.7in           2:00      0.00552
SCS_24h_Type_II_1.7in           2:15      0.00552
SCS_24h_Type_II_1.7in           2:30      0.00552
SCS_24h_Type_II_1.7in           2:45      0.00552
SCS_24h_Type_II_1.7in           3:00      0.00552
SCS_24h_Type_II_1.7in           3:15      0.00552
SCS_24h_Type_II_1.7in           3:30      0.00552
SCS_24h_Type_II_1.7in           3:45      0.00552
SCS_24h_Type_II_1.7in           4:00      0.0068
SCS_24h_Type_II_1.7in           4:15      0.0068
SCS_24h_Type_II_1.7in           4:30      0.0068
SCS_24h_Type_II_1.7in           4:45      0.0068
SCS_24h_Type_II_1.7in           5:00      0.0068
SCS_24h_Type_II_1.7in           5:15      0.0068
SCS_24h_Type_II_1.7in           5:30      0.0068
SCS_24h_Type_II_1.7in           5:45      0.0068
SCS_24h_Type_II_1.7in           6:00      0.00765
SCS_24h_Type_II_1.7in           6:15      0.00765
SCS_24h_Type_II_1.7in           6:30      0.00765
SCS_24h_Type_II_1.7in           6:45      0.00765
SCS_24h_Type_II_1.7in           7:00      0.00935
SCS_24h_Type_II_1.7in           7:15      0.00935
SCS_24h_Type_II_1.7in           7:30      0.00935
SCS_24h_Type_II_1.7in           7:45      0.00935
SCS_24h_Type_II_1.7in           8:00      0.0111
SCS_24h_Type_II_1.7in           8:15      0.0111
SCS_24h_Type_II_1.7in           8:30      0.0119
SCS_24h_Type_II_1.7in           8:45      0.0119
SCS_24h_Type_II_1.7in           9:00      0.0136
SCS_24h_Type_II_1.7in           9:15      0.0136
```

```
SCS_24h_Type_II_1.7in          9:30      0.0153
SCS_24h_Type_II_1.7in          9:45      0.0153
SCS_24h_Type_II_1.7in          10:00     0.0196
SCS_24h_Type_II_1.7in          10:15     0.0196
SCS_24h_Type_II_1.7in          10:30     0.0264
SCS_24h_Type_II_1.7in          10:45     0.0264
SCS_24h_Type_II_1.7in          11:00     0.0408
SCS_24h_Type_II_1.7in          11:15     0.0408
SCS_24h_Type_II_1.7in          11:30     0.126
SCS_24h_Type_II_1.7in          11:45     0.52
SCS_24h_Type_II_1.7in          12:00     0.0612
SCS_24h_Type_II_1.7in          12:15     0.0612
SCS_24h_Type_II_1.7in          12:30     0.0314
SCS_24h_Type_II_1.7in          12:45     0.0314
SCS_24h_Type_II_1.7in          13:00     0.023
SCS_24h_Type_II_1.7in          13:15     0.023
SCS_24h_Type_II_1.7in          13:30     0.0178
SCS_24h_Type_II_1.7in          13:45     0.0178
SCS_24h_Type_II_1.7in          14:00     0.0127
SCS_24h_Type_II_1.7in          14:15     0.0127
SCS_24h_Type_II_1.7in          14:30     0.0127
SCS_24h_Type_II_1.7in          14:45     0.0127
SCS_24h_Type_II_1.7in          15:00     0.0127
SCS_24h_Type_II_1.7in          15:15     0.0127
SCS_24h_Type_II_1.7in          15:30     0.0127
SCS_24h_Type_II_1.7in          15:45     0.0127
SCS_24h_Type_II_1.7in          16:00     0.00765
SCS_24h_Type_II_1.7in          16:15     0.00765
SCS_24h_Type_II_1.7in          16:30     0.00765
SCS_24h_Type_II_1.7in          16:45     0.00765
SCS_24h_Type_II_1.7in          17:00     0.00765
SCS_24h_Type_II_1.7in          17:15     0.00765
SCS_24h_Type_II_1.7in          17:30     0.00765
SCS_24h_Type_II_1.7in          17:45     0.00765
SCS_24h_Type_II_1.7in          18:00     0.00765
SCS_24h_Type_II_1.7in          18:15     0.00765
SCS_24h_Type_II_1.7in          18:30     0.00765
SCS_24h_Type_II_1.7in          18:45     0.00765
SCS_24h_Type_II_1.7in          19:00     0.00765
SCS_24h_Type_II_1.7in          19:15     0.00765
SCS_24h_Type_II_1.7in          19:30     0.00765
SCS_24h_Type_II_1.7in          19:45     0.00765
SCS_24h_Type_II_1.7in          20:00     0.0051
SCS_24h_Type_II_1.7in          20:15     0.0051
SCS_24h_Type_II_1.7in          20:30     0.0051
SCS_24h_Type_II_1.7in          20:45     0.0051
SCS_24h_Type_II_1.7in          21:00     0.0051
SCS_24h_Type_II_1.7in          21:15     0.0051
SCS_24h_Type_II_1.7in          21:30     0.0051
SCS_24h_Type_II_1.7in          21:45     0.0051
SCS_24h_Type_II_1.7in          22:00     0.0051
SCS_24h_Type_II_1.7in          22:15     0.0051
SCS_24h_Type_II_1.7in          22:30     0.0051
SCS_24h_Type_II_1.7in          22:45     0.0051
SCS_24h_Type_II_1.7in          23:00     0.0051
SCS_24h_Type_II_1.7in          23:15     0.0051
SCS_24h_Type_II_1.7in          23:30     0.0051
SCS_24h_Type_II_1.7in          23:45     0.0051
SCS_24h_Type_II_1.7in          24:00     0

;SCS_24h_Type_II_2.4in design storm, total rainfall = 2.4 in, rain units = in.
SCS_24h_Type_II_2.4in          0:00      0.0066
SCS_24h_Type_II_2.4in          0:15      0.0066
SCS_24h_Type_II_2.4in          0:30      0.0066
SCS_24h_Type_II_2.4in          0:45      0.0066
SCS_24h_Type_II_2.4in          1:00      0.0066
SCS_24h_Type_II_2.4in          1:15      0.0066
SCS_24h_Type_II_2.4in          1:30      0.0066
SCS_24h_Type_II_2.4in          1:45      0.0066
SCS_24h_Type_II_2.4in          2:00      0.0078
SCS_24h_Type_II_2.4in          2:15      0.0078
SCS_24h_Type_II_2.4in          2:30      0.0078
SCS_24h_Type_II_2.4in          2:45      0.0078
SCS_24h_Type_II_2.4in          3:00      0.0078
SCS_24h_Type_II_2.4in          3:15      0.0078
SCS_24h_Type_II_2.4in          3:30      0.0078
SCS_24h_Type_II_2.4in          3:45      0.0078
SCS_24h_Type_II_2.4in          4:00      0.0096
SCS_24h_Type_II_2.4in          4:15      0.0096
SCS_24h_Type_II_2.4in          4:30      0.0096
SCS_24h_Type_II_2.4in          4:45      0.0096
SCS_24h_Type_II_2.4in          5:00      0.0096
SCS_24h_Type_II_2.4in          5:15      0.0096
SCS_24h_Type_II_2.4in          5:30      0.0096
SCS_24h_Type_II_2.4in          5:45      0.0096
SCS_24h_Type_II_2.4in          6:00      0.0108
SCS_24h_Type_II_2.4in          6:15      0.0108
SCS_24h_Type_II_2.4in          6:30      0.0108
SCS_24h_Type_II_2.4in          6:45      0.0108
SCS_24h_Type_II_2.4in          7:00      0.0132
SCS_24h_Type_II_2.4in          7:15      0.0132
SCS_24h_Type_II_2.4in          7:30      0.0132
SCS_24h_Type_II_2.4in          7:45      0.0132
SCS_24h_Type_II_2.4in          8:00      0.0156
SCS_24h_Type_II_2.4in          8:15      0.0156
SCS_24h_Type_II_2.4in          8:30      0.0168
SCS_24h_Type_II_2.4in          8:45      0.0168
SCS_24h_Type_II_2.4in          9:00      0.0192
SCS_24h_Type_II_2.4in          9:15      0.0192
SCS_24h_Type_II_2.4in          9:30      0.0216
SCS_24h_Type_II_2.4in          9:45      0.0216
SCS_24h_Type_II_2.4in          10:00     0.0276
SCS_24h_Type_II_2.4in          10:15     0.0276
SCS_24h_Type_II_2.4in          10:30     0.0372
SCS_24h_Type_II_2.4in          10:45     0.0372
SCS_24h_Type_II_2.4in          11:00     0.0576
SCS_24h_Type_II_2.4in          11:15     0.0576
SCS_24h_Type_II_2.4in          11:30     0.178
SCS_24h_Type_II_2.4in          11:45     0.734
SCS_24h_Type_II_2.4in          12:00     0.0864
SCS_24h_Type_II_2.4in          12:15     0.0864
SCS_24h_Type_II_2.4in          12:30     0.0444
SCS_24h_Type_II_2.4in          12:45     0.0444
SCS_24h_Type_II_2.4in          13:00     0.0324
SCS_24h_Type_II_2.4in          13:15     0.0324
SCS_24h_Type_II_2.4in          13:30     0.0252
SCS_24h_Type_II_2.4in          13:45     0.0252
SCS_24h_Type_II_2.4in          14:00     0.018
SCS_24h_Type_II_2.4in          14:15     0.018
SCS_24h_Type_II_2.4in          14:30     0.018
SCS_24h_Type_II_2.4in          14:45     0.018
SCS_24h_Type_II_2.4in          15:00     0.018
SCS_24h_Type_II_2.4in          15:15     0.018
SCS_24h_Type_II_2.4in          15:30     0.018
SCS_24h_Type_II_2.4in          15:45     0.018
SCS_24h_Type_II_2.4in          16:00     0.0108
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```
SCS_24h_Type_II_2.4in           16:15      0.0108
SCS_24h_Type_II_2.4in           16:30      0.0108
SCS_24h_Type_II_2.4in           16:45      0.0108
SCS_24h_Type_II_2.4in           17:00      0.0108
SCS_24h_Type_II_2.4in           17:15      0.0108
SCS_24h_Type_II_2.4in           17:30      0.0108
SCS_24h_Type_II_2.4in           17:45      0.0108
SCS_24h_Type_II_2.4in           18:00      0.0108
SCS_24h_Type_II_2.4in           18:15      0.0108
SCS_24h_Type_II_2.4in           18:30      0.0108
SCS_24h_Type_II_2.4in           18:45      0.0108
SCS_24h_Type_II_2.4in           19:00      0.0108
SCS_24h_Type_II_2.4in           19:15      0.0108
SCS_24h_Type_II_2.4in           19:30      0.0108
SCS_24h_Type_II_2.4in           19:45      0.0108
SCS_24h_Type_II_2.4in           20:00      0.0072
SCS_24h_Type_II_2.4in           20:15      0.0072
SCS_24h_Type_II_2.4in           20:30      0.0072
SCS_24h_Type_II_2.4in           20:45      0.0072
SCS_24h_Type_II_2.4in           21:00      0.0072
SCS_24h_Type_II_2.4in           21:15      0.0072
SCS_24h_Type_II_2.4in           21:30      0.0072
SCS_24h_Type_II_2.4in           21:45      0.0072
SCS_24h_Type_II_2.4in           22:00      0.0072
SCS_24h_Type_II_2.4in           22:15      0.0072
SCS_24h_Type_II_2.4in           22:30      0.0072
SCS_24h_Type_II_2.4in           22:45      0.0072
SCS_24h_Type_II_2.4in           23:00      0.0072
SCS_24h_Type_II_2.4in           23:15      0.0072
SCS_24h_Type_II_2.4in           23:30      0.0072
SCS_24h_Type_II_2.4in           23:45      0.0072
SCS_24h_Type_II_2.4in           24:00      0

Timeseries1                     0:05       0.0156
Timeseries1                     0:10       0.02886
Timeseries1                     0:15       0.06786
Timeseries1                     0:20       0.11934
Timeseries1                     0:25       0.195
Timeseries1                     0:30       0.1014
Timeseries1                     0:35       0.04524
Timeseries1                     0:40       0.03432
Timeseries1                     0:45       0.02808
Timeseries1                     0:50       0.02808
Timeseries1                     0:55       0.0234
Timeseries1                     1:00       0.0234
Timeseries1                     1:05       0.0234
Timeseries1                     1:10       0.0234
Timeseries1                     1:15       0.0195
Timeseries1                     1:20       0.01716
Timeseries1                     1:25       0.01716
Timeseries1                     1:30       0.01716
Timeseries1                     1:35       0.01716
Timeseries1                     1:40       0.0117
Timeseries1                     1:45       0.0117
Timeseries1                     1:50       0.0117
Timeseries1                     1:55       0.0117
Timeseries1                     2:00       0.01014
Timeseries1                     2:05       0


[REPORT]
INPUT      YES
CONTROLS   NO
```

```
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]

[MAP]
DIMENSIONS       2624292.10637989 1420410.28714607 2670968.35144736 1462193.53897569
UNITS            Feet

[COORDINATES]
;;Node           X-Coord          Y-Coord
;;-------------- ---------------- ----------------
J-SO19           2627473.303      1423820.929
J5               2628232.431      1422698.478
J-SO03           2627630.824      1423606.343
J-SO02           2627404.395      1423362.557
J-SO17           2627681.295      1423650.999
J-SO20           2628134.996      1423795.221
J-SO49           2627792.227      1424373.331
J-SO27           2627834.477      1424336.279
J-SO28           2629153.56       1424745.803
J-SO29           2629090          1424331.014
J-SO31           2629196.153      1423975.917
J-SO24           2628786.357      1423740.761
J-SO23           2628762.716      1423275.636
J-SO18           2627533.714      1423816.375
J-SO22           2628125.061      1423673.084
J-SO05           2627664.504      1423153.739
J-SO13           2628630.021      1423120.445
J-SO12           2628515.372      1422986.537
J-SO26           2628300.904      1424120.766
J-SO16           2627929.591      1423453.181
J-SO21           2628128.33       1423684.723
J-SO04           2627643.201      1423180.513
J-SO25           2628775.883      1423757.545
J-SO06           2628021.611      1422873.946
J-SO08           2628434.614      1422534.84
J-SO07           2628274.892      1422666.784
J-SO09           2628567.373      1422434.384
J-SO11           2628818.675      1422750.356
J-SO14           2628491.175      1423033.724
J-SO15           2628225.152      1423224.685
J-SO30           2629125.332      1424338.668
J-SO32           2629205.017      1423962.678
J-SO35           2630335.36       1424258.531
J-SO33           2629635.645      1424303.611
J-SO34           2629986.368      1424284
J-SO40           2630005.111      1424821.146
J-SO44           2630664.131      1425051.765
J-SO36           2630416.27       1424340.829
J-SO39           2631176.021      1424638.23
J-SO38           2631348.269      1424647.731
J-SO47           2630534.013      1425534.207
J-SO41           2629861.595      1424710.162
J-SO42           2629963.158      1425038.287
J-SO43           2630004.031      1424846.77
J-SO46           2631032.563      1424942.949
J-SO37           2631736.06       1424497.62
J-SO45           2630636.219      1425179.506
J-SO48           2629105.464      1425072.652
J-SO10           2628772.3        1422689.739
J-SO50           2631585.433      1424894.117
```

J1	2631163.847	1424320.307
J2	2630517.517	1425118.827
J4	2628046.503	1423719.21
J6	2628003.701	1422852.934
J-SO01	2627104.16	1423628.263
J3	2627653.379	1423138.661
J7	2628264.781	1422652.301
OF1	2627095.48	1423619.604

[VERTICES]

;;Link	X-Coord	Y-Coord
C2	2631721.231	1424296.588
C6	2630608.437	1425409.376
C6	2630667.732	1425330.315
C6	2630667.732	1425272.996
C7	2630618.319	1425142.546
C7	2630582.742	1425114.874
C10	2630462.174	1425138.593
C10	2630367.301	1425112.898
C10	2630306.029	1425053.602
C10	2630128.142	1424887.575
C12	2631007.694	1425010.119
C12	2630968.164	1425055.579
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C12	2630784.347	1425055.579
C13	2631576.932	1424820.373
C13	2631535.425	1424729.453
C13	2631401.022	1424658.298
C14	2629926.826	1424781.56
C15	2629799.092	1424551.925
C21	2629122.402	1424144.874
C23	2629624.239	1424156.823
C23	2629596.929	1424073.183
C23	2629514.996	1423984.423
C23	2629419.408	1423981.009
C23	2629392.097	1423992.957
C23	2629359.665	1424083.425
C23	2629322.113	1424115.856
C23	2629279.439	1424081.718
C25	2629173.517	1423912.158
C25	2629061.3	1423846.766
C25	2628983.798	1423787.832
C25	2628881.268	1423754.732
C27	2628552.691	1423719.21
C27	2628467.115	1423720.017
C27	2628400.915	1423730.512
C27	2628274.974	1423703.063
C27	2628220.076	1423669.963
C27	2628150.647	1423663.505
C31	2628362.971	1424063.934
C32	2627739.674	1424265.659
C32	2627672.787	1424101.899
C33	2627709.69	1424094.98
C35	2627468.545	1423725.691
C35	2627379.362	1423662.136
C36	2627655.111	1423843.576
C39	2627106.689	1423606.781

[Polygons]

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SO23	2629582.574	1423259.151
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SO23	2629247.636	1422965.636
SO23	2629188.912	1422904.219
SO23	2629017.537	1423040.454
SO23	2628724.118	1423274.982
SO23	2628731.365	1423283.186
SO23	2628874.887	1423466.064
SO23	2628959.991	1423574.504
SO23	2629202.984	1423381.578
SO22	2628959.991	1423574.504
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SO22	2628724.118	1423274.982
SO22	2628662.218	1423269.302
SO22	2628425.758	1423454.242
SO22	2628227.081	1423615.371
SO22	2628212.544	1423605.548
SO22	2628156.989	1423599.993
SO22	2628100	1423633.375
SO22	2628085.154	1423685.768
SO22	2628092.404	1423693.98
SO22	2628099.07	1423701.529
SO22	2628122.18	1423681.908
SO22	2628155.931	1423668.158
SO22	2628160.633	1423669.337
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SO22	2628268.706	1423707.097
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SO31	2629618.613	1424266.945
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SO46            2631443.047      1425329.953
SO46            2631410.368      1424887.338
SO51            2627369.109      1423357.368
SO51            2627126.617      1423607.368
SO51            2627233.388      1423603.027
SO51            2627404.395      1423593.479
SO51            2627545.444      1423641.019
SO51            2627563.577      1423703.963
SO51            2627583.475      1423686.521
SO51            2627579.682      1423623.819
SO51            2627566.922      1423607.551
SO51            2627532.088      1423563.088
SO51            2627369.109      1423357.368

[SYMBOLS]
;;Gage           X-Coord          Y-Coord
;;-------------- ---------------- ----------------
```

```
[TITLE]
Spring Creek Basin - Future Conditions
UDFCD gauge 100 year 2 hr


[OPTIONS]
FLOW_UNITS           CFS
INFILTRATION         HORTON
FLOW_ROUTING         KINWAVE
START_DATE           7/28/2012
START_TIME           00:00
REPORT_START_DATE    7/28/2012
REPORT_START_TIME    00:00
END_DATE             7/29/2012
END_TIME             00:00
SWEEP_START          1/1
SWEEP_END            12/31
DRY_DAYS             0
REPORT_STEP          00:01:00
WET_STEP             00:05:00
DRY_STEP             00:05:00
ROUTING_STEP         5
ALLOW_PONDING        NO
INERTIAL_DAMPING     PARTIAL
VARIABLE_STEP        0.75
LENGTHENING_STEP     0
MIN_SURFAREA         0
NORMAL_FLOW_LIMITED  BOTH
SKIP_STEADY_STATE    NO
FORCE_MAIN_EQUATION  H-W
LINK_OFFSETS         DEPTH
MIN_SLOPE            0

[EVAPORATION]
;;Type          Parameters
;;------------- ----------
CONSTANT     0.0
DRY_ONLY     NO

[RAINGAGES]
;;               Rain      Time   Snow   Data
;;Name           Type      Intrvl Catch  Source
;;-------------- --------- ------ ------ ----------
rg100            INTENSITY 0:15   1.0    TIMESERIES SCS_24h_Type_II_2.8in
UDFCD100         VOLUME    0:05   1.0    TIMESERIES UDFCD100
UDFCD5           VOLUME    0:05   1.0    TIMESERIES Timeseries1

[SUBCATCHMENTS]
;;                                          Total    Pcnt.             Pcnt.    Curb
Snow
;;Name           Raingage         Outlet           Area     Imperv   Width    Slope    Length
Pack
;;-------------- ---------------- ---------------- -------- -------- -------- -------- --------
--------
SP17             UDFCD100         J-SP17           3.05     78.1     767.807  5.00126  0
SP02             UDFCD100         J-SP02           3.19     97.2     789.4    2.28021  0
SP03             UDFCD100         J-SP03           3.32     97       808.517  2.07788  0
SP08             UDFCD100         J-SP08           1.63     97       457.728  4.71896  0
SP07             UDFCD100         J-SP07           3.41     94.3     757.151  2.46978  0
SP06             UDFCD100         J-SP06           0.75     95.8     448.35   1.87354  0
SP15             UDFCD100         J-SP15           0.7      85.7     521.688  6.03809  0
SP16             UDFCD100         J-SP16           0.37     91.9     555.114  5.76459  0
SP18             UDFCD100         J-SP18           3.97     60.9     1223.41  5.21494  0
SP19             UDFCD100         J-SP19           8.53     56       2312.1   3.73687  0
SP04             UDFCD100         J-SP04           3.27     97       741.371  2.67073  0
SP05             UDFCD100         J-SP05           2.58     93.9     690.216  1.21701  0
SP01             UDFCD100         J-SP01           1.4      96.9     511.323  2.79667  0
SP10             UDFCD100         J-SP10           1.45     91.7     439.358  6.80538  0
SP09             UDFCD100         J-SP09           2.48     92.2     1112.73  2.73201  0
SP23             UDFCD100         J-SP23           14.92    57.1     2138.98  6.73218  0
SP24             UDFCD100         J-SP24           32.11    10.5     6798.64  15.6502  0
SP20             UDFCD100         J-SP20           9.87     62.5     2589.79  6.70325  0
SP22             UDFCD100         J-SP22           24.16    11.9     3513.91  3.32962  0
SP25             UDFCD100         J-SP25           4996.84  2.5      68657.3  9.55295  0
SP13             UDFCD100         J-SP13           37.2     31.2     4332.14  5.98317  0
SP11             UDFCD100         J-SP11           20.95    41.8     6720.63  6.9309   0
SP28             UDFCD100         J-SP28           21.38    30.2     3489.81  8.49331  0
SP26             UDFCD100         J-SP26           69.97    26.4     12926.5  16.3199  0
SP27             UDFCD100         J-SP27           34.21    39.3     5734.08  10.9869  0
SP21             UDFCD100         J-SP21           2.82     33.7     1884.36  5.30684  0
SP14             UDFCD100         J-SP14           5.53     72.3     1527.01  3.66729  0
SP12             UDFCD100         J-SP12           1.86     41.7     957.766  21.049   0

[SUBAREAS]
;;Subcatchment   N-Imperv   N-Perv     S-Imperv   S-Perv     PctZero    RouteTo    PctRouted
;;-------------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
SP17             0.02       0.2        0.1        0.35       10         OUTLET
SP02             0.02       0.2        0.1        0.35       10         OUTLET
SP03             0.02       0.2        0.1        0.35       10         OUTLET
SP08             0.02       0.2        0.1        0.35       10         OUTLET
SP07             0.02       0.2        0.1        0.35       10         OUTLET
SP06             0.02       0.2        0.1        0.35       10         OUTLET
SP15             0.02       0.2        0.1        0.35       10         OUTLET
SP16             0.02       0.2        0.1        0.35       10         OUTLET
SP18             0.02       0.2        0.1        0.35       10         OUTLET
SP19             0.02       0.2        0.1        0.35       10         OUTLET
SP04             0.02       0.2        0.1        0.35       10         OUTLET
SP05             0.02       0.2        0.1        0.35       10         OUTLET
SP01             0.02       0.2        0.1        0.35       10         OUTLET
SP10             0.02       0.2        0.1        0.35       10         OUTLET
SP09             0.02       0.2        0.1        0.35       10         OUTLET
SP23             0.02       0.2        0.1        0.35       10         OUTLET
SP24             0.02       0.2        0.1        0.35       10         OUTLET
SP20             0.02       0.2        0.1        0.35       10         OUTLET
SP22             0.02       0.2        0.1        0.35       10         OUTLET
SP25             0.02       0.2        0.1        0.35       10         OUTLET
SP13             0.02       0.2        0.1        0.35       10         OUTLET
SP11             0.02       0.2        0.1        0.35       10         OUTLET
SP28             0.02       0.2        0.1        0.35       10         OUTLET
SP26             0.02       0.2        0.1        0.35       10         OUTLET
SP27             0.02       0.2        0.1        0.35       10         OUTLET
SP21             0.02       0.2        0.1        0.35       10         OUTLET
SP14             0.02       0.2        0.1        0.35       10         OUTLET
SP12             0.02       0.2        0.1        0.35       10         OUTLET

[INFILTRATION]
;;Subcatchment   MaxRate    MinRate    Decay      DryTime    MaxInfil
;;-------------- ---------- ---------- ---------- ---------- ----------
SP17             3          0.5        6.48       7          0
SP02             3          0.5        6.48       7          0
SP03             3          0.5        6.48       7          0
SP08             3          0.5        6.48       7          0
SP07             3          0.5        6.48       7          0
SP06             3          0.5        6.48       7          0
SP15             3          0.5        6.48       7          0
SP16             3          0.5        6.48       7          0
```

```
SP18            3          0.5        6.48       7          0
SP19            3          0.5        6.48       7          0
SP04            3          0.5        6.48       7          0
SP05            3          0.5        6.48       7          0
SP01            3          0.5        6.48       7          0
SP10            3          0.5        6.48       7          0
SP09            3          0.5        6.48       7          0
SP23            3          0.5        6.48       7          0
SP24            3          0.5        6.48       7          0
SP20            3          0.5        6.48       7          0
SP22            3          0.5        6.48       7          0
SP25            3          0.5        6.48       7          0
SP13            3          0.5        6.48       7          0
SP11            3          0.5        6.48       7          0
SP28            3          0.5        6.48       7          0
SP26            3          0.5        6.48       7          0
SP27            3          0.5        6.48       7          0
SP21            3          0.5        6.48       7          0
SP14            3          0.5        6.48       7          0
SP12            3          0.5        6.48       7          0

[JUNCTIONS]
;;              Invert     Max.       Init.      Surcharge  Ponded
;;Name          Elev.      Depth      Depth      Depth      Area
;;-------------- ---------- ---------- ---------- ---------- ----------
J-SP04          6710       0          0          0          0
J-SP05          6728       0          0          0          0
J-SP06          6729       0          0          0          0
J-SP07          6729       0          0          0          0
J-SP03          6717       0          0          0          0
J-SP08          6730       0          0          0          0
J-SP09          6732       0          0          0          0
J-SP25          6828       0          0          0          0
J-SP24          6840       0          0          0          0
J-SP23          6816       0          0          0          0
J-SP11          6732.5     0          0          0          0
J-SP18          6752       0          0          0          0
J-SP19          6770       0          0          0          0
J-SP16          6748       0          0          0          0
J-SP17          6736       0          0          0          0
J-SP13          6742       0          0          0          0
J-SP14          6742       0          0          0          0
J-SP02          6716       0          0          0          0
J-SP01          6718       0          0          0          0
J-SP22          6750       0          0          0          0
J-SP20          6754       0          0          0          0
J-SP26          6827       0          0          0          0
J-SP28          6986       0          0          0          0
J-SP15          6748       0          0          0          0
J-SP21          6754       0          0          0          0
J-SP27          6826       0          0          0          0
J-SP12          6732       0          0          0          0
J1              6820       0          0          0          0
J2              6796       0          0          0          0
J3              6770       0          0          0          0
J5              6705       0          0          0          0
J7              6715       0          0          0          0
J6              6710       0          0          0          0
J4              6720       0          0          0          0

[OUTFALLS]
;;              Invert     Outfall    Stage/Table     Tide
;;Name          Elev.      Type       Time Series     Gate
;;-------------- ---------- ---------- ---------------- ----
J9              6700       FREE                         NO

[DIVIDERS]
;;              Invert     Diverted         Divider
;;Name          Elev.      Link             Type       Parameters
;;-------------- ---------- ---------------- ---------- ----------
J-SP10          6724       C22              CUTOFF     496        0          0          0
0

[CONDUITS]
;;              Inlet            Outlet                      Manning    Inlet      Outlet
Init.      Max.
;;Name          Node             Node             Length     N          Offset     Offset
Flow       Flow
;;-------------- ---------------- ---------------- ---------- ---------- ---------- ----------
---------- ----------
C1              J-SP25           J-SP26           22.7       0.01       0          0
0          0
C2              J-SP26           J-SP27           8.38       0.01       0          0
0          0
C3              J-SP28           J-SP26           1791.48    0.01       0          0
0          0
C4              J-SP24           J1               169.75     0.01       0          0
0          0
C5              J-SP27           J1               113.42     0.01       0          0
0          0
C6              J1               J2               860.12     0.01       0          0
0          0
C7              J2               J3               1180.67    0.01       0          0
0          0
C8              J3               J-SP22           797.66     0.01       0          0
0          0
C9              J-SP23           J3               775.16     0.01       0          0
0          0
C10             J-SP20           J-SP21           19.64      0.01       0          0
0          0
C11             J-SP22           J-SP14           298.04     0.01       0          0
0          0
C12             J-SP13           J-SP14           19.18      0.01       0          0
0          0
C13             J-SP21           J-SP22           145.23     0.01       0          0
0          0
C14             J-SP14           J-SP10           405.72     0.01       0          0
0          0
C15             J-SP15           J-SP08           377.67     0.01       0          0
0          0
C16             J-SP16           J-SP07           713.1      0.01       0          0
0          0
C17             J-SP17           J-SP07           400.8      0.01       0          0
0          0
C18             J-SP19           J-SP15           383.24     0.01       0          0
0          0
C19             J-SP09           J-SP08           338.58     0.01       0          0
0          0
C20             J-SP08           J-SP02           381.87     0.01       0          0
0          0
C21             J-SP10           J-SP01           491.58     0.01       0          0
0          0
C22             J-SP10           J-SP01           402.14     0.01       0          0
0          0
C23             J-SP05           J-SP04           409.28     0.01       0          0
0          0
```

```
C24             J-SP07          J-SP03          387.26     0.01       0          0
0          0
C25             J-SP06          J-SP04          701.17     0.01       0          0
0          0
C26             J-SP03          J5              73.92      0.01       0          0
0          0
C27             J-SP02          J6              96.81      0.01       0          0
0          0
C28             J-SP01          J7              67.44      0.01       0          0
0          0
C29             J7              J6              417.94     0.01       0          0
0          0
C30             J6              J5              401.35     0.01       0          0
0          0
C31             J5              J9              398.84     0.01       0          0
0          0
C32             J-SP04          J9              80.09      0.01       0          0
0          0
C33             J-SP11          J-SP12          208.25     0.01       0          0
0          0
C34             J-SP12          J4              149.47     0.01       0          0
0          0
C35             J4              J7              542.46     0.01       0          0
0          0
C36             J-SP18          J-SP17          351.73     0.01       0          0
0          0

[XSECTIONS]
;;Link           Shape        Geom1            Geom2      Geom3      Geom4      Barrels
;;-------------- ------------ ---------------- ---------- ---------- ---------- ----------
C1              IRREGULAR    channel-overflow3r 0          0          0          1
C2              IRREGULAR    channel-overflow3r 0          0          0          1
C3              IRREGULAR    channel-overflow1a 0          0          0          1
C4              IRREGULAR    channel-overflow1a 0          0          0          1
C5              IRREGULAR    Channel-overflow2a 0          0          0          1
C6              IRREGULAR    Channel-overflow2a 0          0          0          1
C7              IRREGULAR    Channel-overflow2a 0          0          0          1
C8              IRREGULAR    Channel-overflow2a 0          0          0          1
C9              IRREGULAR    channel-overflow1s 0          0          0          1
C10             DUMMY        0                0          0          0          1
C11             IRREGULAR    Channel-overflow2a 0          0          0          1
C12             DUMMY        0                0          0          0          1
C13             IRREGULAR    channel-overflow1a 0          0          0          1
C14             IRREGULAR    Channel-overflow2a 0          0          0          1
C15             IRREGULAR    street-overflow  0          0          0          1
C16             IRREGULAR    street-overflow  0          0          0          1
C17             IRREGULAR    street-overflow  0          0          0          1
C18             IRREGULAR    street-overflow  0          0          0          1
C19             IRREGULAR    street-overflow  0          0          0          1
C20             IRREGULAR    street-overflow  0          0          0          1
C21             RECT_CLOSED  5                9          0          0          1
C22             IRREGULAR    street-overflow  0          0          0          1
C23             IRREGULAR    street-overflow  0          0          0          1
C24             IRREGULAR    street-overflow  0          0          0          1
C25             IRREGULAR    street-overflow  0          0          0          1
C26             DUMMY        0                0          0          0          1
C27             DUMMY        0                0          0          0          1
C28             IRREGULAR    largeriver       0          0          0          1
C29             IRREGULAR    largeriver       0          0          0          1
C30             IRREGULAR    largeriver       0          0          0          1
C31             IRREGULAR    largeriver       0          0          0          1
C32             DUMMY        0                0          0          0          1
C33             IRREGULAR    channel-overflow1s 0          0          0          1
C34             IRREGULAR    channel-main1a   0          0          0          1
C35             IRREGULAR    largeriver       0          0          0          1
C36             IRREGULAR    street-main      0          0          0          1

[TRANSECTS]

NC 0.0625   0.0625   0.0375
X1 channel-main1st  8        4        8        0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        8
GR 0.5      8        1.5      12       5.5      28

NC 0.0625   0.0625   0.0375
X1 channel-main2nd  8        4        12       0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        12
GR 0.5      12       1.5      16       5.5      32

NC 0.0625   0.0625   0.0375
X1 channel-main3rd  8        4        16       0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        16
GR 0.5      16       1.5      20       5.5      36

NC 0.0625   0.0625   0.0375
X1 channel-overflow1s 8        20       28       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        28
GR 1        28       2        48       6        128

NC 0.0625   0.0625   0.0375
X1 channel-overflow2n 8        20       35       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        35
GR 1        35       2        55       6        135

NC 0.0625   0.0625   0.0375
X1 channel-overflow3r 8        20       50       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        60
GR 1        60       2        80       6        160

NC 0.0625   0.0625   0.01875
X1 street-main      9        6        30.5     0.0       0.0       0.0      0.0      0.0
GR 7        -18      1        0        0        3        1        6        1.25     18.5
GR 1        30.5     0        33.5     1        36.5     7        54.5

NC 0.0625   0.0625   0.01875
X1 street-overflow  11       13       53       0.0       0.0       0.0      0.0      0.0
GR 3        -20      2        0        0        6        0        7        2        13
GR 2.4      33       2        53       0        59       0        60       2        66
GR 3        86

NC 0.0625   0.0625   0.035
X1 largeriver       12       21       41       0.0       0.0       0.0      0.0      0.0
GR 10       -45      7        -45      5        -5       4        15       2        21
GR 0        21       0        41       2        41       4        47       5        67
GR 7        107      10       107

NC 0.122    0.122    0.073
X1 channel-main1a   8        4        8        0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        8
GR 0.5      8        1.5      12       5.5      28

NC 0.122    0.122    0.073
X1 channel-overflow1a 8        20       28       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        28
GR 1        28       2        48       6        128
```

```
NC 0.122    0.122    0.073
X1 Channel-overflow2a 8        20       35       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        35
GR 1        35       2        55       6        135

[LOSSES]
;;Link           Inlet      Outlet     Average    Flap Gate
;;-------------- ---------- ---------- ---------- ----------

[TIMESERIES]
;;Name           Date       Time       Value
;;-------------- ---------- ---------- ----------
;SCS_24h_Type_II_2.8in design storm, total rainfall = 2.8 in, rain units = in/hr.
SCS_24h_Type_II_2.8in            0:00       0
SCS_24h_Type_II_2.8in            0:15       0.03696
SCS_24h_Type_II_2.8in            0:30       0.03696
SCS_24h_Type_II_2.8in            0:45       0.03808
SCS_24h_Type_II_2.8in            1:00       0.03696
SCS_24h_Type_II_2.8in            1:15       0.03696
SCS_24h_Type_II_2.8in            1:30       0.03808
SCS_24h_Type_II_2.8in            1:45       0.03696
SCS_24h_Type_II_2.8in            2:00       0.03696
SCS_24h_Type_II_2.8in            2:15       0.03808
SCS_24h_Type_II_2.8in            2:30       0.03696
SCS_24h_Type_II_2.8in            2:45       0.03696
SCS_24h_Type_II_2.8in            3:00       0.03808
SCS_24h_Type_II_2.8in            3:15       0.03696
SCS_24h_Type_II_2.8in            3:30       0.03696
SCS_24h_Type_II_2.8in            3:45       0.03808
SCS_24h_Type_II_2.8in            4:00       0.03696
SCS_24h_Type_II_2.8in            4:15       0.03696
SCS_24h_Type_II_2.8in            4:30       0.03808
SCS_24h_Type_II_2.8in            4:45       0.03696
SCS_24h_Type_II_2.8in            5:00       0.03696
SCS_24h_Type_II_2.8in            5:15       0.03808
SCS_24h_Type_II_2.8in            5:30       0.03696
SCS_24h_Type_II_2.8in            5:45       0.03696
SCS_24h_Type_II_2.8in            6:00       0.03808
SCS_24h_Type_II_2.8in            6:15       0.03696
SCS_24h_Type_II_2.8in            6:30       0.03696
SCS_24h_Type_II_2.8in            6:45       0.03808
SCS_24h_Type_II_2.8in            7:00       0.03696
SCS_24h_Type_II_2.8in            7:15       0.03696
SCS_24h_Type_II_2.8in            7:30       0.03808
SCS_24h_Type_II_2.8in            7:45       0.07392
SCS_24h_Type_II_2.8in            8:00       0.07504
SCS_24h_Type_II_2.8in            8:15       0.07504
SCS_24h_Type_II_2.8in            8:30       0.07392
SCS_24h_Type_II_2.8in            8:45       0.07504
SCS_24h_Type_II_2.8in            9:00       0.07504
SCS_24h_Type_II_2.8in            9:15       0.112
SCS_24h_Type_II_2.8in            9:30       0.112
SCS_24h_Type_II_2.8in            9:45       0.112
SCS_24h_Type_II_2.8in            10:00      0.112
SCS_24h_Type_II_2.8in            10:15      0.112
SCS_24h_Type_II_2.8in            10:30      0.112
SCS_24h_Type_II_2.8in            10:45      0.224
SCS_24h_Type_II_2.8in            11:00      0.224
SCS_24h_Type_II_2.8in            11:15      0.336
SCS_24h_Type_II_2.8in            11:30      0.56
SCS_24h_Type_II_2.8in            11:45      0.672
SCS_24h_Type_II_2.8in            12:00      1.344
SCS_24h_Type_II_2.8in            12:15      1.344
SCS_24h_Type_II_2.8in            12:30      0.672
SCS_24h_Type_II_2.8in            12:45      0.56
SCS_24h_Type_II_2.8in            13:00      0.336
SCS_24h_Type_II_2.8in            13:15      0.224
SCS_24h_Type_II_2.8in            13:30      0.224
SCS_24h_Type_II_2.8in            13:45      0.112
SCS_24h_Type_II_2.8in            14:00      0.112
SCS_24h_Type_II_2.8in            14:15      0.112
SCS_24h_Type_II_2.8in            14:30      0.112
SCS_24h_Type_II_2.8in            14:45      0.112
SCS_24h_Type_II_2.8in            15:00      0.112
SCS_24h_Type_II_2.8in            15:15      0.07392
SCS_24h_Type_II_2.8in            15:30      0.07504
SCS_24h_Type_II_2.8in            15:45      0.07504
SCS_24h_Type_II_2.8in            16:00      0.07392
SCS_24h_Type_II_2.8in            16:15      0.07504
SCS_24h_Type_II_2.8in            16:30      0.07504
SCS_24h_Type_II_2.8in            16:45      0.03696
SCS_24h_Type_II_2.8in            17:00      0.03696
SCS_24h_Type_II_2.8in            17:15      0.03808
SCS_24h_Type_II_2.8in            17:30      0.03696
SCS_24h_Type_II_2.8in            17:45      0.03696
SCS_24h_Type_II_2.8in            18:00      0.03808
SCS_24h_Type_II_2.8in            18:15      0.03696
SCS_24h_Type_II_2.8in            18:30      0.03696
SCS_24h_Type_II_2.8in            18:45      0.03808
SCS_24h_Type_II_2.8in            19:00      0.03696
SCS_24h_Type_II_2.8in            19:15      0.03696
SCS_24h_Type_II_2.8in            19:30      0.03808
SCS_24h_Type_II_2.8in            19:45      0.03696
SCS_24h_Type_II_2.8in            20:00      0.03696
SCS_24h_Type_II_2.8in            20:15      0.03808
SCS_24h_Type_II_2.8in            20:30      0.03696
SCS_24h_Type_II_2.8in            20:45      0.03696
SCS_24h_Type_II_2.8in            21:00      0.03808
SCS_24h_Type_II_2.8in            21:15      0.03696
SCS_24h_Type_II_2.8in            21:30      0.03696
SCS_24h_Type_II_2.8in            21:45      0.03808
SCS_24h_Type_II_2.8in            22:00      0.03696
SCS_24h_Type_II_2.8in            22:15      0.03696
SCS_24h_Type_II_2.8in            22:30      0.03808
SCS_24h_Type_II_2.8in            22:45      0.03696
SCS_24h_Type_II_2.8in            23:00      0.03696
SCS_24h_Type_II_2.8in            23:15      0.03808
SCS_24h_Type_II_2.8in            23:30      0.03696
SCS_24h_Type_II_2.8in            23:45      0.03696
SCS_24h_Type_II_2.8in            24:00      0.03808

UDFCD100                    0:05       0.0146
UDFCD100                    0:10       0.0438
UDFCD100                    0:15       0.06716
UDFCD100                    0:20       0.1168
UDFCD100                    0:25       0.2044
UDFCD100                    0:30       0.365
UDFCD100                    0:35       0.2044
UDFCD100                    0:40       0.1168
UDFCD100                    0:45       0.09052
UDFCD100                    0:50       0.073
UDFCD100                    0:55       0.0584
UDFCD100                    1:00       0.0584
UDFCD100                    1:05       0.0584
UDFCD100                    1:10       0.0292
UDFCD100                    1:15       0.0292
```

```
UDFCD100                    1:20       0.01752
UDFCD100                    1:25       0.01752
UDFCD100                    1:30       0.01752
UDFCD100                    1:35       0.01752
UDFCD100                    1:40       0.01752
UDFCD100                    1:45       0.01752
UDFCD100                    1:50       0.01752
UDFCD100                    1:55       0.01752
UDFCD100                    2:00       0.01752
UDFCD100                    2:05       0

;SCS_24h_Type_II_1.7in design storm, total rainfall = 1.7 in, rain units = in.
SCS_24h_Type_II_1.7in            0:00       0.00468
SCS_24h_Type_II_1.7in            0:15       0.00468
SCS_24h_Type_II_1.7in            0:30       0.00468
SCS_24h_Type_II_1.7in            0:45       0.00468
SCS_24h_Type_II_1.7in            1:00       0.00468
SCS_24h_Type_II_1.7in            1:15       0.00468
SCS_24h_Type_II_1.7in            1:30       0.00468
SCS_24h_Type_II_1.7in            1:45       0.00468
SCS_24h_Type_II_1.7in            2:00       0.00552
SCS_24h_Type_II_1.7in            2:15       0.00552
SCS_24h_Type_II_1.7in            2:30       0.00552
SCS_24h_Type_II_1.7in            2:45       0.00552
SCS_24h_Type_II_1.7in            3:00       0.00552
SCS_24h_Type_II_1.7in            3:15       0.00552
SCS_24h_Type_II_1.7in            3:30       0.00552
SCS_24h_Type_II_1.7in            3:45       0.00552
SCS_24h_Type_II_1.7in            4:00       0.0068
SCS_24h_Type_II_1.7in            4:15       0.0068
SCS_24h_Type_II_1.7in            4:30       0.0068
SCS_24h_Type_II_1.7in            4:45       0.0068
SCS_24h_Type_II_1.7in            5:00       0.0068
SCS_24h_Type_II_1.7in            5:15       0.0068
SCS_24h_Type_II_1.7in            5:30       0.0068
SCS_24h_Type_II_1.7in            5:45       0.0068
SCS_24h_Type_II_1.7in            6:00       0.00765
SCS_24h_Type_II_1.7in            6:15       0.00765
SCS_24h_Type_II_1.7in            6:30       0.00765
SCS_24h_Type_II_1.7in            6:45       0.00765
SCS_24h_Type_II_1.7in            7:00       0.00935
SCS_24h_Type_II_1.7in            7:15       0.00935
SCS_24h_Type_II_1.7in            7:30       0.00935
SCS_24h_Type_II_1.7in            7:45       0.00935
SCS_24h_Type_II_1.7in            8:00       0.0111
SCS_24h_Type_II_1.7in            8:15       0.0111
SCS_24h_Type_II_1.7in            8:30       0.0119
SCS_24h_Type_II_1.7in            8:45       0.0119
SCS_24h_Type_II_1.7in            9:00       0.0136
SCS_24h_Type_II_1.7in            9:15       0.0136
SCS_24h_Type_II_1.7in            9:30       0.0153
SCS_24h_Type_II_1.7in            9:45       0.0153
SCS_24h_Type_II_1.7in            10:00      0.0196
SCS_24h_Type_II_1.7in            10:15      0.0196
SCS_24h_Type_II_1.7in            10:30      0.0264
SCS_24h_Type_II_1.7in            10:45      0.0264
SCS_24h_Type_II_1.7in            11:00      0.0408
SCS_24h_Type_II_1.7in            11:15      0.0408
SCS_24h_Type_II_1.7in            11:30      0.126
SCS_24h_Type_II_1.7in            11:45      0.52
SCS_24h_Type_II_1.7in            12:00      0.0612
SCS_24h_Type_II_1.7in            12:15      0.0612
SCS_24h_Type_II_1.7in            12:30      0.0314
SCS_24h_Type_II_1.7in            12:45      0.0314
SCS_24h_Type_II_1.7in            13:00      0.023
SCS_24h_Type_II_1.7in            13:15      0.023
SCS_24h_Type_II_1.7in            13:30      0.0178
SCS_24h_Type_II_1.7in            13:45      0.0178
SCS_24h_Type_II_1.7in            14:00      0.0127
SCS_24h_Type_II_1.7in            14:15      0.0127
SCS_24h_Type_II_1.7in            14:30      0.0127
SCS_24h_Type_II_1.7in            14:45      0.0127
SCS_24h_Type_II_1.7in            15:00      0.0127
SCS_24h_Type_II_1.7in            15:15      0.0127
SCS_24h_Type_II_1.7in            15:30      0.0127
SCS_24h_Type_II_1.7in            15:45      0.0127
SCS_24h_Type_II_1.7in            16:00      0.00765
SCS_24h_Type_II_1.7in            16:15      0.00765
SCS_24h_Type_II_1.7in            16:30      0.00765
SCS_24h_Type_II_1.7in            16:45      0.00765
SCS_24h_Type_II_1.7in            17:00      0.00765
SCS_24h_Type_II_1.7in            17:15      0.00765
SCS_24h_Type_II_1.7in            17:30      0.00765
SCS_24h_Type_II_1.7in            17:45      0.00765
SCS_24h_Type_II_1.7in            18:00      0.00765
SCS_24h_Type_II_1.7in            18:15      0.00765
SCS_24h_Type_II_1.7in            18:30      0.00765
SCS_24h_Type_II_1.7in            18:45      0.00765
SCS_24h_Type_II_1.7in            19:00      0.00765
SCS_24h_Type_II_1.7in            19:15      0.00765
SCS_24h_Type_II_1.7in            19:30      0.00765
SCS_24h_Type_II_1.7in            19:45      0.00765
SCS_24h_Type_II_1.7in            20:00      0.0051
SCS_24h_Type_II_1.7in            20:15      0.0051
SCS_24h_Type_II_1.7in            20:30      0.0051
SCS_24h_Type_II_1.7in            20:45      0.0051
SCS_24h_Type_II_1.7in            21:00      0.0051
SCS_24h_Type_II_1.7in            21:15      0.0051
SCS_24h_Type_II_1.7in            21:30      0.0051
SCS_24h_Type_II_1.7in            21:45      0.0051
SCS_24h_Type_II_1.7in            22:00      0.0051
SCS_24h_Type_II_1.7in            22:15      0.0051
SCS_24h_Type_II_1.7in            22:30      0.0051
SCS_24h_Type_II_1.7in            22:45      0.0051
SCS_24h_Type_II_1.7in            23:00      0.0051
SCS_24h_Type_II_1.7in            23:15      0.0051
SCS_24h_Type_II_1.7in            23:30      0.0051
SCS_24h_Type_II_1.7in            23:45      0.0051
SCS_24h_Type_II_1.7in            24:00      0

;SCS_24h_Type_II_2.4in design storm, total rainfall = 2.4 in, rain units = in.
SCS_24h_Type_II_2.4in            0:00       0.0066
SCS_24h_Type_II_2.4in            0:15       0.0066
SCS_24h_Type_II_2.4in            0:30       0.0066
SCS_24h_Type_II_2.4in            0:45       0.0066
SCS_24h_Type_II_2.4in            1:00       0.0066
SCS_24h_Type_II_2.4in            1:15       0.0066
SCS_24h_Type_II_2.4in            1:30       0.0066
SCS_24h_Type_II_2.4in            1:45       0.0066
SCS_24h_Type_II_2.4in            2:00       0.0078
SCS_24h_Type_II_2.4in            2:15       0.0078
SCS_24h_Type_II_2.4in            2:30       0.0078
SCS_24h_Type_II_2.4in            2:45       0.0078
SCS_24h_Type_II_2.4in            3:00       0.0078
SCS_24h_Type_II_2.4in            3:15       0.0078
SCS_24h_Type_II_2.4in            3:30       0.0078
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```
SCS_24h_Type_II_2.4in          3:45      0.0078
SCS_24h_Type_II_2.4in          4:00      0.0096
SCS_24h_Type_II_2.4in          4:15      0.0096
SCS_24h_Type_II_2.4in          4:30      0.0096
SCS_24h_Type_II_2.4in          4:45      0.0096
SCS_24h_Type_II_2.4in          5:00      0.0096
SCS_24h_Type_II_2.4in          5:15      0.0096
SCS_24h_Type_II_2.4in          5:30      0.0096
SCS_24h_Type_II_2.4in          5:45      0.0096
SCS_24h_Type_II_2.4in          6:00      0.0108
SCS_24h_Type_II_2.4in          6:15      0.0108
SCS_24h_Type_II_2.4in          6:30      0.0108
SCS_24h_Type_II_2.4in          6:45      0.0108
SCS_24h_Type_II_2.4in          7:00      0.0132
SCS_24h_Type_II_2.4in          7:15      0.0132
SCS_24h_Type_II_2.4in          7:30      0.0132
SCS_24h_Type_II_2.4in          7:45      0.0132
SCS_24h_Type_II_2.4in          8:00      0.0156
SCS_24h_Type_II_2.4in          8:15      0.0156
SCS_24h_Type_II_2.4in          8:30      0.0168
SCS_24h_Type_II_2.4in          8:45      0.0168
SCS_24h_Type_II_2.4in          9:00      0.0192
SCS_24h_Type_II_2.4in          9:15      0.0192
SCS_24h_Type_II_2.4in          9:30      0.0216
SCS_24h_Type_II_2.4in          9:45      0.0216
SCS_24h_Type_II_2.4in          10:00     0.0276
SCS_24h_Type_II_2.4in          10:15     0.0276
SCS_24h_Type_II_2.4in          10:30     0.0372
SCS_24h_Type_II_2.4in          10:45     0.0372
SCS_24h_Type_II_2.4in          11:00     0.0576
SCS_24h_Type_II_2.4in          11:15     0.0576
SCS_24h_Type_II_2.4in          11:30     0.178
SCS_24h_Type_II_2.4in          11:45     0.734
SCS_24h_Type_II_2.4in          12:00     0.0864
SCS_24h_Type_II_2.4in          12:15     0.0864
SCS_24h_Type_II_2.4in          12:30     0.0444
SCS_24h_Type_II_2.4in          12:45     0.0444
SCS_24h_Type_II_2.4in          13:00     0.0324
SCS_24h_Type_II_2.4in          13:15     0.0324
SCS_24h_Type_II_2.4in          13:30     0.0252
SCS_24h_Type_II_2.4in          13:45     0.0252
SCS_24h_Type_II_2.4in          14:00     0.018
SCS_24h_Type_II_2.4in          14:15     0.018
SCS_24h_Type_II_2.4in          14:30     0.018
SCS_24h_Type_II_2.4in          14:45     0.018
SCS_24h_Type_II_2.4in          15:00     0.018
SCS_24h_Type_II_2.4in          15:15     0.018
SCS_24h_Type_II_2.4in          15:30     0.018
SCS_24h_Type_II_2.4in          15:45     0.018
SCS_24h_Type_II_2.4in          16:00     0.0108
SCS_24h_Type_II_2.4in          16:15     0.0108
SCS_24h_Type_II_2.4in          16:30     0.0108
SCS_24h_Type_II_2.4in          16:45     0.0108
SCS_24h_Type_II_2.4in          17:00     0.0108
SCS_24h_Type_II_2.4in          17:15     0.0108
SCS_24h_Type_II_2.4in          17:30     0.0108
SCS_24h_Type_II_2.4in          17:45     0.0108
SCS_24h_Type_II_2.4in          18:00     0.0108
SCS_24h_Type_II_2.4in          18:15     0.0108
SCS_24h_Type_II_2.4in          18:30     0.0108
SCS_24h_Type_II_2.4in          18:45     0.0108
SCS_24h_Type_II_2.4in          19:00     0.0108
SCS_24h_Type_II_2.4in          19:15     0.0108
SCS_24h_Type_II_2.4in          19:30     0.0108
SCS_24h_Type_II_2.4in          19:45     0.0108
SCS_24h_Type_II_2.4in          20:00     0.0072
SCS_24h_Type_II_2.4in          20:15     0.0072
SCS_24h_Type_II_2.4in          20:30     0.0072
SCS_24h_Type_II_2.4in          20:45     0.0072
SCS_24h_Type_II_2.4in          21:00     0.0072
SCS_24h_Type_II_2.4in          21:15     0.0072
SCS_24h_Type_II_2.4in          21:30     0.0072
SCS_24h_Type_II_2.4in          21:45     0.0072
SCS_24h_Type_II_2.4in          22:00     0.0072
SCS_24h_Type_II_2.4in          22:15     0.0072
SCS_24h_Type_II_2.4in          22:30     0.0072
SCS_24h_Type_II_2.4in          22:45     0.0072
SCS_24h_Type_II_2.4in          23:00     0.0072
SCS_24h_Type_II_2.4in          23:15     0.0072
SCS_24h_Type_II_2.4in          23:30     0.0072
SCS_24h_Type_II_2.4in          23:45     0.0072
SCS_24h_Type_II_2.4in          24:00     0

Timeseries1                0:05      0.0156
Timeseries1                0:10      0.02886
Timeseries1                0:15      0.06786
Timeseries1                0:20      0.11934
Timeseries1                0:25      0.195
Timeseries1                0:30      0.1014
Timeseries1                0:35      0.04524
Timeseries1                0:40      0.03432
Timeseries1                0:45      0.02808
Timeseries1                0:50      0.02808
Timeseries1                0:55      0.0234
Timeseries1                1:00      0.0234
Timeseries1                1:05      0.0234
Timeseries1                1:10      0.0234
Timeseries1                1:15      0.0195
Timeseries1                1:20      0.01716
Timeseries1                1:25      0.01716
Timeseries1                1:30      0.01716
Timeseries1                1:35      0.01716
Timeseries1                1:40      0.0117
Timeseries1                1:45      0.0117
Timeseries1                1:50      0.0117
Timeseries1                1:55      0.0117
Timeseries1                2:00      0.01014
Timeseries1                2:05      0


[REPORT]
INPUT      YES
CONTROLS   NO
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]

[MAP]
DIMENSIONS       2627452.31776054 1419234.09955786 2663441.77272232 1441588.43669406
UNITS            Feet

[COORDINATES]
;;Node           X-Coord          Y-Coord
;;-------------- ---------------- ----------------
```

J-SP04	2629155.778	1421951.92
J-SP05	2629410.552	1422272.233
J-SP06	2629681.848	1422079.613
J-SP07	2629701.982	1422034.154
J-SP03	2629459.129	1421732.505
J-SP08	2629999.511	1421800.551
J-SP09	2630265.773	1421591.407
J-SP25	2633430.01	1422722.071
J-SP24	2633320.506	1422876.723
J-SP23	2632051	1422919.292
J-SP11	2630613.685	1421264.616
J-SP18	2630163.693	1422628.362
J-SP19	2630471.359	1422397.474
J-SP16	2630211.333	1422112.709
J-SP17	2629947.792	1422350.73
J-SP13	2630784.715	1421694.388
J-SP14	2630768.842	1421705.158
J-SP02	2629762.852	1421500.853
J-SP01	2630103.25	1421268.611
J-SP22	2630976.128	1421915.583
J-SP20	2630911.812	1422067
J-SP26	2633412.933	1422707.117
J-SP28	2634702.588	1421875.467
J-SP15	2630235.808	1422095.169
J-SP21	2630916.131	1422047.84
J-SP27	2633405.656	1422711.277
J-SP12	2630735.554	1421095.745
J1	2633292.257	1422709.339
J2	2632647.344	1422291.605
J3	2631599.898	1422310.824
J5	2629411.772	1421675.746
J7	2630078.795	1421205.756
J6	2629717.265	1421415.444
J4	2630586.55	1421083.989
J9	2629088.202	1421908.933
J-SP10	2630447.689	1421476.158

[VERTICES]

;;Link	X-Coord	Y-Coord
C3	2634655.691	1421944.377
C3	2634391.704	1422014.873
C3	2634213.213	1422026.873
C3	2633880.229	1422109.368
C3	2633827.731	1422139.367
C3	2633776.734	1422160.366
C3	2633679.239	1422176.865
C3	2633610.242	1422235.362
C3	2633554.745	1422350.857
C3	2633520.246	1422388.355
C3	2633473.749	1422389.855
C3	2633341.755	1422535.348
C6	2633201.498	1422685.598
C6	2633163.059	1422653.566
C6	2633015.712	1422653.566
C6	2632980.477	1422599.112
C6	2632980.477	1422547.861
C6	2632926.023	1422515.829
C6	2632922.819	1422480.593
C6	2632890.787	1422461.374
C6	2632820.317	1422451.765
C6	2632749.847	1422368.481
C6	2632708.205	1422307.621
C7	2632535.232	1422269.182
C7	2632480.778	1422182.696
C7	2632416.714	1422166.68
C7	2632359.056	1422221.134
C7	2632317.415	1422221.134
C7	2632275.773	1422240.353
C7	2632192.49	1422240.353
C7	2632154.052	1422217.931
C7	2632073.972	1422237.15
C7	2632025.924	1422259.573
C7	2631987.485	1422259.573
C7	2631945.844	1422320.433
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C7	2631801.7	1422326.84
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C7	2631651.149	1422336.449
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C8	2631253.952	1422038.552
C8	2631202.701	1421993.707
C8	2631119.418	1421939.253
C8	2631029.728	1421929.643
C9	2631843.341	1422768.881
C9	2631660.759	1422429.342
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C14	2630504.745	1421496.921
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C21	2630380.517	1421446.422
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[Polygons]

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SP17	2630139.811	1422630.342
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SP02	2630069.234	1421279.359
SP02	2629723.913	1421496.158
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SP02	2629969.467	1421788.823
SP02	2630261.222	1421551.157
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SP03	2629723.913	1421496.158

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SP08	2630109.525	1421907.905
SP08	2630346.433	1421724.336
SP08	2630258.62	1421613.638
SP08	2630261.222	1421551.157
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SP07	2629667.107	1422026.141
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SP13	2630830.55	1421604.222
SP13	2630788	1421624.651
SP13	2630743.083	1421656.538
SP13	2630774.333	1421696.121
SP13	2630812.874	1421747.163
SP13	2630861.312	1421799.767
SP13	2630901.416	1421859.142
SP13	2630924.853	1421875.496
SP13	2630951.937	1421896.851
SP13	2630967.523	1421903.767
SP13	2631030.583	1421931.746
SP13	2631104.02	1421937.476
SP13	2631126.416	1421950.496
SP13	2631202.458	1422000.496
SP13	2631255.062	1422036.434
SP13	2631277.978	1422048.413
SP13	2631326.416	1422051.017
SP13	2631365.999	1422045.288
SP13	2631390.478	1422051.538
SP13	2631419.645	1422078.101
SP13	2631443.083	1422095.288
SP13	2631475.895	1422129.663
SP13	2631509.749	1422146.851
SP13	2631519.645	1422168.205
SP13	2631526.416	1422208.309
SP13	2631531.624	1422252.059
SP13	2631546.728	1422264.559
SP13	2631585.27	1422302.059
SP13	2631608.187	1422319.767
SP13	2631624.333	1422333.309
SP13	2631692.431	1422343.335
SP13	2631772.727	1422341.165
SP13	2631798.768	1422323.804
SP13	2631829.15	1422324.889
SP13	2631871.468	1422328.144
SP13	2631935.487	1422322.719
SP13	2631964.784	1422304.273
SP13	2631999.506	1422267.38
SP13	2632046.164	1422260.87
SP13	2632077.631	1422225.062
SP13	2632106.928	1422215.297
SP13	2632147.076	1422215.297
SP13	2632181.798	1422234.828
SP13	2632206.754	1422240.253
SP13	2632246.902	1422239.168
SP13	2632271.859	1422239.168
SP13	2632310.921	1422225.062
SP13	2632341.303	1422226.148

SP13	2632367.345	1422223.977
SP13	2632386.876	1422193.595
SP13	2632416.173	1422170.809
SP13	2632451.98	1422180.575
SP13	2632505.148	1422216.382
SP13	2632525.765	1422246.764
SP13	2632547.466	1422276.061
SP13	2632600.635	1422291.252
SP13	2632652.718	1422294.507
SP13	2632690.695	1422304.273
SP13	2632704.603	1422315.09
SP13	2632719.992	1422327.059
SP13	2632741.694	1422363.951
SP13	2632754.714	1422384.568
SP13	2632778.586	1422411.694
SP13	2632805.713	1422438.821
SP13	2632835.01	1422450.757
SP13	2632866.477	1422459.437
SP13	2632892.518	1422469.203
SP13	2632912.05	1422487.649
SP13	2632926.155	1422514.776
SP13	2632955.452	1422531.052
SP13	2632976.069	1422547.328
SP13	2632978.239	1422576.625
SP13	2632977.154	1422604.837
SP13	2632997.77	1422635.219
SP13	2633011.876	1422649.325
SP13	2633058.534	1422658.005
SP13	2633125.808	1422661.26
SP13	2633159.445	1422661.26
SP13	2633185.487	1422682.962
SP13	2633211.529	1422692.727
SP13	2633253.846	1422691.642
SP13	2633295.079	1422709.003
SP13	2633365.609	1422717.684
SP11	2631127.024	1421212.179
SP11	2630930.866	1421201.213
SP11	2630808.47	1421153.036
SP11	2630738.158	1421128.297
SP11	2630671.506	1421107.536
SP11	2630635.886	1421160.431
SP11	2630556.092	1421274.075
SP11	2630475.491	1421375.129
SP11	2630405.496	1421430.095
SP11	2630506.475	1421469.784
SP11	2630573.836	1421547.562
SP11	2630621.753	1421567.701
SP11	2630770.365	1421637.17
SP11	2630788	1421624.651
SP11	2630830.55	1421604.222
SP11	2630875.588	1421585.677
SP11	2630936.522	1421577.729
SP11	2630994.807	1421583.028
SP11	2631146.181	1421623.107
SP11	2631648.371	1421763.621
SP11	2631943.759	1421525.775
SP11	2632063.551	1421525.775
SP11	2632258.864	1421562.233
SP11	2632486.728	1421615.619
SP11	2632794.02	1421659.89
SP11	2633122.145	1421739.317
SP11	2633132.264	1421741.533
SP11	2633250.267	1421794.039
SP11	2633370.71	1421816.825
SP11	2633467.281	1421823.336
SP11	2633602.175	1421774.711
SP11	2633690.022	1421774.051
SP11	2633975.512	1421638.747
SP11	2634002.638	1421555.197
SP11	2634026.51	1421498.773
SP11	2634028.393	1421414.029
SP11	2634018.035	1421419.737
SP11	2633886.147	1421510.41
SP11	2633698.619	1421566.05
SP11	2633593.521	1421559.867
SP11	2633484.302	1421553.685
SP11	2633253.498	1421599.794
SP11	2633137.581	1421602.113
SP11	2633063.502	1421589.104
SP11	2632899.952	1421560.383
SP11	2632442.08	1421468.808
SP11	2631727.646	1421276.386
SP11	2631607.092	1421310.002
SP11	2631560.725	1421332.026
SP11	2631516.326	1421333.295
SP11	2631127.024	1421212.179
SP28	2635449.097	1421166.622
SP28	2635340.939	1421135.029
SP28	2635262.814	1421163.241
SP28	2635208.561	1421219.664
SP28	2635128.265	1421308.64
SP28	2634978.526	1421476.826
SP28	2634910.167	1421508.293
SP28	2634891.72	1421526.739
SP28	2634873.274	1421553.866
SP28	2634797.319	1421618.97
SP28	2634745.236	1421616.8
SP28	2634647.58	1421664.543
SP28	2634561.859	1421649.352
SP28	2634435.996	1421681.082
SP28	2634436.861	1421710.07
SP28	2634496.757	1421780.382
SP28	2634663.424	1421944.445
SP28	2634824.882	1422059.028
SP28	2634994.153	1422124.132
SP28	2635137.382	1422144.966
SP28	2635241.549	1422108.507
SP28	2635408.215	1422006.945
SP28	2635718.111	1421801.216
SP28	2635772.799	1421788.195
SP28	2635973.32	1421788.195
SP28	2636142.59	1421782.987
SP28	2636330.09	1421751.737
SP28	2636404.89	1421729.022
SP28	2636384.427	1421640.797
SP28	2636309.557	1421621.266
SP28	2636171.753	1421600.649
SP28	2636122.925	1421553.991
SP28	2636073.012	1421484.547
SP28	2635874.444	1421443.314
SP28	2635803.915	1421436.804
SP28	2635758.342	1421387.976
SP28	2635632.474	1421300.085
SP28	2635608.602	1421238.236
SP28	2635449.097	1421166.622
SP26	2634662.208	1421943.248

SP26	2634465.276	1421992.481
SP26	2634397.567	1422011.578
SP26	2634298.609	1422021.995
SP26	2634220.484	1422021.995
SP26	2634083.331	1422063.661
SP26	2633871.526	1422110.536
SP26	2633843.72	1422133.282
SP26	2633779.05	1422161.494
SP26	2633678.817	1422178.245
SP26	2633609.373	1422233.8
SP26	2633576.387	1422292.828
SP26	2633553.817	1422350.12
SP26	2633519.095	1422383.106
SP26	2633475.692	1422390.05
SP26	2633344.182	1422532.411
SP26	2633355.033	1422572.776
SP26	2633412.934	1422718.379
SP26	2633441.115	1422684.072
SP26	2633461.948	1422560.374
SP26	2633494.5	1422525.217
SP26	2633521.844	1422453.603
SP26	2633665.073	1422383.29
SP26	2633775.75	1422337.717
SP26	2633877.313	1422315.582
SP26	2633998.406	1422310.374
SP26	2634162.469	1422314.28
SP26	2634317.417	1422332.509
SP26	2634424.188	1422348.134
SP26	2634603.875	1422375.478
SP26	2634708.042	1422408.03
SP26	2634959.054	1422484.563
SP26	2635063.931	1422502.503
SP26	2635443.039	1422615.646
SP26	2635634.011	1422533.18
SP26	2635809.358	1422530.576
SP26	2636199.94	1422539.685
SP26	2636290.218	1422546.629
SP26	2636410.009	1422551.838
SP26	2636536.745	1422550.102
SP26	2636826.676	1422621.282
SP26	2636965.565	1422652.532
SP26	2637422.509	1422771.456
SP26	2637746.711	1422830.866
SP26	2638119.975	1422826.525
SP26	2638764	1422736
SP26	2639582.648	1422631.213
SP26	2640286.472	1422338.361
SP26	2636910.037	1422176.771
SP26	2636775.052	1422170.311
SP26	2636602.75	1422181.819
SP26	2636374.451	1422146.229
SP26	2636400.493	1422019.493
SP26	2636401.708	1421940.5
SP26	2636435.215	1421859.77
SP26	2636404.89	1421729.022
SP26	2636330.09	1421751.737
SP26	2636142.59	1421782.987
SP26	2635973.32	1421788.195
SP26	2635772.799	1421788.195
SP26	2635718.111	1421801.216
SP26	2635408.215	1422006.945
SP26	2635241.549	1422108.507
SP26	2635137.382	1422144.966
SP26	2634994.153	1422124.132
SP26	2634824.882	1422059.028
SP26	2634663.424	1421944.445
SP26	2634662.208	1421943.248
SP27	2633412.934	1422718.379
SP27	2633355.033	1422572.776
SP27	2633344.182	1422532.411
SP27	2633475.692	1422390.05
SP27	2633519.095	1422383.106
SP27	2633553.817	1422350.12
SP27	2633576.387	1422292.828
SP27	2633609.373	1422233.8
SP27	2633678.817	1422178.245
SP27	2633779.05	1422161.494
SP27	2633843.72	1422133.282
SP27	2633871.526	1422110.536
SP27	2634083.331	1422063.661
SP27	2634220.484	1422021.995
SP27	2634298.609	1422021.995
SP27	2634397.567	1422011.578
SP27	2634465.276	1421992.481
SP27	2634662.208	1421943.248
SP27	2634496.757	1421780.382
SP27	2634436.861	1421710.07
SP27	2634435.996	1421681.082
SP27	2634561.859	1421649.352
SP27	2634647.58	1421664.543
SP27	2634745.236	1421616.8
SP27	2634797.319	1421618.97
SP27	2634873.274	1421553.866
SP27	2634891.72	1421526.739
SP27	2634910.167	1421508.293
SP27	2634978.526	1421476.826
SP27	2635128.265	1421308.64
SP27	2635208.561	1421219.664
SP27	2635262.814	1421163.241
SP27	2635340.939	1421135.029
SP27	2635449.097	1421166.622
SP27	2635377.483	1421008.202
SP27	2635293.358	1420825.658
SP27	2635050.553	1420609.244
SP27	2634872.292	1420581.515
SP27	2634482.112	1420520.82
SP27	2634173.839	1420250.206
SP27	2634393.09	1420583.074
SP27	2634376.604	1420743.813
SP27	2634372.483	1420894.247
SP27	2634323.025	1421205.419
SP27	2634222.048	1421265.181
SP27	2634131.642	1421357.137
SP27	2634028.393	1421414.029
SP27	2634026.51	1421498.773
SP27	2634002.638	1421555.197
SP27	2633975.512	1421638.747
SP27	2633589.712	1421821.591
SP27	2633268.183	1422437.829
SP27	2633316.852	1422551.39
SP27	2633365.486	1422717.267
SP27	2633411.167	1422720.53
SP27	2633412.934	1422718.379
SP21	2630907.884	1422030.913
SP21	2630901.637	1422055.067
SP21	2630914.742	1422058

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SP21            2630934.315     1422075.822
SP21            2630939.764     1422081.752
SP21            2630952.102     1422095.178
SP21            2631009.246     1422169
SP21            2631389.908     1422658.922
SP21            2631483.841     1422779.817
SP21            2631462.292     1422696.571
SP21            2631408.82      1422325.043
SP21            2631274.792     1422211.849
SP21            2631082.334     1422060.039
SP21            2630907.884     1422030.913
SP14            2630880.431     1422054.373
SP14            2630895.973     1422053.8
SP14            2630901.637     1422055.067
SP14            2630907.884     1422030.913
SP14            2631082.334     1422060.039
SP14            2630960.224     1421963.721
SP14            2630967.523     1421903.767
SP14            2630951.937     1421896.851
SP14            2630924.853     1421875.496
SP14            2630901.416     1421859.142
SP14            2630861.312     1421799.767
SP14            2630812.874     1421747.163
SP14            2630774.333     1421696.121
SP14            2630743.083     1421656.538
SP14            2630717.526     1421676.921
SP14            2630660.421     1421723.449
SP14            2630500.356     1421853.865
SP14            2630265.859     1422039.217
SP14            2630380.788     1422177.6
SP14            2630506.635     1422336.389
SP14            2630738.035     1422150.618
SP14            2630830.554     1422080.366
SP14            2630855.843     1422063.266
SP14            2630879.863     1422054.578
SP14            2630880.431     1422054.373
SP12            2630671.506     1421107.536
SP12            2630738.158     1421128.297
SP12            2630808.47      1421153.036
SP12            2630930.866     1421201.213
SP12            2631127.024     1421212.179
SP12            2631124.588     1421211.421
SP12            2631003.213     1421021.245
SP12            2630970.748     1420951.8
SP12            2630867.102     1420896.939
SP12            2630848.55      1420823.373
SP12            2630760.766     1420977.139
SP12            2630691.239     1421078.232
SP12            2630671.506     1421107.536

[SYMBOLS]
;;Gage           X-Coord         Y-Coord
;;-------------- --------------- ----------------
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```
[TITLE]
Walton Creek Basin - Future Conditions
UDFCD gauge 100 year 2 hr


[OPTIONS]
FLOW_UNITS           CFS
INFILTRATION         HORTON
FLOW_ROUTING         KINWAVE
START_DATE           06/27/2012
START_TIME           00:00:00
REPORT_START_DATE    06/27/2012
REPORT_START_TIME    00:00:00
END_DATE             06/28/2012
END_TIME             12:00:00
SWEEP_START          01/01
SWEEP_END            12/31
DRY_DAYS             0
REPORT_STEP          0:05:00
WET_STEP             0:05:00
DRY_STEP             0:05:00
ROUTING_STEP         300
ALLOW_PONDING        YES
INERTIAL_DAMPING     PARTIAL
VARIABLE_STEP        0
LENGTHENING_STEP     0
MIN_SURFAREA         0
NORMAL_FLOW_LIMITED  BOTH
SKIP_STEADY_STATE    NO
FORCE_MAIN_EQUATION  H-W
LINK_OFFSETS         DEPTH
MIN_SLOPE            0

[EVAPORATION]
;;Type          Parameters
;;-------------- ----------
CONSTANT     0.0
DRY_ONLY     NO

[RAINGAGES]
;;               Rain      Time   Snow   Data
;;Name           Type      Intrvl Catch  Source
;;-------------- --------- ------ ------ ----------
rg100            INTENSITY 0:15   1.0    TIMESERIES SCS_24h_Type_II_2.8in
UDFCD100         VOLUME    0:05   1.0    TIMESERIES UDFCD100
UDFCD5           VOLUME    0:05   1.0    TIMESERIES Timeseries1

[SUBCATCHMENTS]
;;                                          Total    Pcnt.             Pcnt.    Curb
Snow
;;Name           Raingage         Outlet           Area     Imperv   Width    Slope    Length
Pack
;;-------------- ---------------- ---------------- -------- -------- -------- -------- --------
--------
WA15             UDFCD100         J-WA15           3406.92  2        45552.4  14.37    0
WA31             UDFCD100         J-WA31           27278.5  2        101176   5.4      0
WA01             UDFCD100         J-WA01           18.7119  95.3     2322.22  0.62     0
WA05             UDFCD100         J-WA05           12.7186  78       2695.47  2.68     0
WA02             UDFCD100         J-WA02           43.4855  60.1     4537.78  1.8      0
WA03             UDFCD100         J-WA03           45.7532  30.3     3567.37  0.947    0
WA12             UDFCD100         J-WA12           8.76163  59.5     1921.7   3.56     0
WA13             UDFCD100         J-WA13           7.11479  53.9     1823.63  3.28     0
WA14             UDFCD100         J-WA14           57.2337  24.5     5102     12.46    0
WA32             UDFCD100         J-WA32           17.8855  13.7     4538.46  21.29    0
WA30             UDFCD100         J-WA30           299.081  2.8      11023.2  29.6     0
WA16             UDFCD100         J-WA16           54.6097  8.5      5206.53  9.2      0
WA23             UDFCD100         J-WA23           11.5025  11.6     3170.05  36.98    0
WA25             UDFCD100         J-WA25           35.7958  18.2     5514.88  26.27    0
WA19             UDFCD100         J-WA19           14.2443  59.3     2377.71  10.59    0
WA29             UDFCD100         J-WA29           19.1311  19.5     6198.43  29.03    0
WA28             UDFCD100         J-WA28           16.7961  30.7     5719.34  30.15    0
WA27             UDFCD100         J-WA27           12.7786  50.5     3302.96  25.11    0
WA21             UDFCD100         J-WA21           16.7838  50       4127.65  14.45    0
WA24             UDFCD100         J-WA24           10.5682  35.3     4121.55  22.23    0
WA26             UDFCD100         J-WA26           48.5683  25.8     6142.5   22.23    0
WA22             UDFCD100         J-WA22           45.2993  20.8     6603.7   19.4     0
WA08             UDFCD100         J-WA08           7.31658  56.4     2362.12  3.94     0
WA33             UDFCD100         J-WA33           12.6871  36       2059.54  14.57    0
WA18             UDFCD100         J-WA18           29.2504  48.5     3581.37  7.08     0
WA10             UDFCD100         J-WA10           17.8018  57       3226.46  7.08     0
WA07             UDFCD100         J-WA07           16.3302  66.8     2615.56  5.76     0
WA04             UDFCD100         J-WA04           16.6109  77.4     2674.14  1.795    0
WA20             UDFCD100         J-WA20           14.642   54.4     3326.78  11.26    0
WA11             UDFCD100         J-WA11           6.57781  60.3     2256.12  3.19     0
WA06             UDFCD100         J-WA06           9.21247  75.8     1416.39  1.61     0
WA17             UDFCD100         J-WA17           12.1006  45.3     2668.69  5.21     0
WA09             UDFCD100         J-WA09           9.27443  51.9     2846.09  2.79     0
WA34             UDFCD100         J-WA34           5.79817  50.1     1238.5   3.28     0
WA35             UDFCD100         J-WA35           15.1712  70.6     1941.14  5.76     0

[SUBAREAS]
;;Subcatchment   N-Imperv   N-Perv     S-Imperv   S-Perv     PctZero    RouteTo    PctRouted
;;-------------- ---------- ---------- ---------- ---------- ---------- ---------- ----------
WA15             0.02       0.2        0.1        0.35       10         OUTLET
WA31             0.02       0.2        0.1        0.35       10         OUTLET
WA01             0.02       0.2        0.1        0.35       10         OUTLET
WA05             0.02       0.2        0.1        0.35       10         OUTLET
WA02             0.02       0.2        0.1        0.35       10         OUTLET
WA03             0.02       0.2        0.1        0.35       10         OUTLET
WA12             0.02       0.2        0.1        0.35       10         OUTLET
WA13             0.02       0.2        0.1        0.35       10         OUTLET
WA14             0.02       0.2        0.1        0.35       10         OUTLET
WA32             0.02       0.2        0.1        0.35       10         OUTLET
WA30             0.02       0.2        0.1        0.35       10         OUTLET
WA16             0.02       0.2        0.1        0.35       10         OUTLET
WA23             0.02       0.2        0.1        0.35       10         OUTLET
WA25             0.02       0.2        0.1        0.35       10         OUTLET
WA19             0.02       0.2        0.1        0.35       10         OUTLET
WA29             0.02       0.2        0.1        0.35       10         OUTLET
WA28             0.02       0.2        0.1        0.35       10         OUTLET
WA27             0.02       0.2        0.1        0.35       10         OUTLET
WA21             0.02       0.2        0.1        0.35       10         OUTLET
WA24             0.02       0.2        0.1        0.35       10         OUTLET
WA26             0.02       0.2        0.1        0.35       10         OUTLET
WA22             0.02       0.2        0.1        0.35       10         OUTLET
WA08             0.02       0.2        0.1        0.35       10         OUTLET
WA33             0.02       0.2        0.1        0.35       10         OUTLET
WA18             0.02       0.2        0.1        0.35       10         OUTLET
WA10             0.02       0.2        0.1        0.35       10         OUTLET
WA07             0.02       0.2        0.1        0.35       10         OUTLET
WA04             0.02       0.2        0.1        0.35       10         OUTLET
WA20             0.02       0.2        0.1        0.35       10         OUTLET
WA11             0.02       0.2        0.1        0.35       10         OUTLET
WA06             0.02       0.2        0.1        0.35       10         OUTLET
WA17             0.02       0.2        0.1        0.35       10         OUTLET
WA09             0.02       0.2        0.1        0.35       10         OUTLET
```

```
WA34            0.02       0.2        0.1        0.35       10         OUTLET
WA35            0.02       0.2        0.1        0.35       10         OUTLET

[INFILTRATION]
;;Subcatchment   MaxRate    MinRate    Decay      DryTime    MaxInfil
;;-------------- ---------- ---------- ---------- ---------- ----------
WA15            3          0.5        6.48       7          0
WA31            3          0.5        6.48       7          0
WA01            3          0.5        6.48       7          0
WA05            3          0.5        6.48       7          0
WA02            3          0.5        6.48       7          0
WA03            3          0.5        6.48       7          0
WA12            3          0.5        6.48       7          0
WA13            3          0.5        6.48       7          0
WA14            3          0.5        6.48       7          0
WA32            3          0.5        6.48       7          0
WA30            3          0.5        6.48       7          0
WA16            3          0.5        6.48       7          0
WA23            3          0.5        6.48       7          0
WA25            3          0.5        6.48       7          0
WA19            3          0.5        6.48       7          0
WA29            3          0.5        6.48       7          0
WA28            3          0.5        6.48       7          0
WA27            3          0.5        6.48       7          0
WA21            3          0.5        6.48       7          0
WA24            3          0.5        6.48       7          0
WA26            3          0.5        6.48       7          0
WA22            3          0.5        6.48       7          0
WA08            3          0.5        6.48       7          0
WA33            3          0.5        6.48       7          0
WA18            3          0.5        6.48       7          0
WA10            3          0.5        6.48       7          0
WA07            3          0.5        6.48       7          0
WA04            3          0.5        6.48       7          0
WA20            3          0.5        6.48       7          0
WA11            3          0.5        6.48       7          0
WA06            3          0.5        6.48       7          0
WA17            3          0.5        6.48       7          0
WA09            3          0.5        6.48       7          0
WA34            3          0.5        6.48       7          0
WA35            3          0.5        6.48       7          0

[JUNCTIONS]
;;              Invert     Max.       Init.      Surcharge  Ponded
;;Name          Elev.      Depth      Depth      Depth      Area
;;-------------- ---------- ---------- ---------- ---------- ----------
J-WA02          6756       0          0          0          0
J-WA05          6763       0          0          0          0
J-WA20          6845       0          0          0          0
J-WA19          6844       0          0          0          0
J-WA10          6791       0          0          0          0
J-WA11          6786       0          0          0          0
J-WA18          6818       0          0          0          0
J-WA12          6795       0          0          0          0
J7              6760       0          0          0          0
J-WA34          6796       0          0          0          0
J-WA17          6836       0          0          0          0
J-WA14          6781       0          0          0          0
J-WA03          6762       0          0          0          0
J-WA16          6887       0          0          0          0
J-WA25          6902       0          0          0          0
J-WA24          6913       0          0          0          0
J-WA33          6877       0          0          0          0
J-WA21          6908       0          0          0          0
J-WA22          6909       0          0          0          0
J-WA27          6942       0          0          0          0
J-WA26          6949       0          0          0          0
J-WA29          7060       0          0          0          0
J-WA30          7059       0          0          0          0
J-WA23          7102       0          0          0          0
J-WA15          6780       0          0          0          0
J-WA28          7099       0          0          0          0
J-WA06          6787       0          0          0          0
J-WA07          6838       0          0          0          0
J-WA08          6795       0          0          0          0
J-WA31          7060       0          0          0          0
J-WA09          6795       0          0          0          0
J-WA32          6887       0          0          0          0
J1              6763       0          0          0          0
J2              6758       0          0          0          0
J3              6795       0          0          0          0
J4              6759       0          0          0          0
J5              6860       0          0          0          0
J-WA04          6761       0          0          0          0
J-WA13          6796       0          0          0          0
J-WA35          6797       0          0          0          0

[OUTFALLS]
;;              Invert     Outfall    Stage/Table      Tide
;;Name          Elev.      Type       Time Series      Gate
;;-------------- ---------- ---------- ---------------- ----
J-WA01          6755       FREE                         NO

[CONDUITS]
;;              Inlet            Outlet                      Manning    Inlet      Outlet
Init.      Max.
;;Name          Node             Node             Length     N          Offset     Offset
Flow       Flow
;;-------------- ---------------- ---------------- ---------- ---------- ---------- ----------
---------- ----------
C1              J-WA15           J1               1528.49    0.01       0          0
0          0
C2              J1               J-WA03           1717.88    0.01       0          0
0          0
C3              J-WA14           J1               785.16     0.01       0          0
0          0
C5              J-WA02           J-WA01           888.79     0.01       0          0
0          0
C6              J2               J-WA02           1053.02    0.01       0          0
0          0
C7              J-WA06           J-WA05           496.96     0.01       0          0
0          0
C8              J-WA05           J2               166.55     0.01       0          0
0          0
C9              J7               J4               474.31     0.01       0          0
0          0
C10             J3               J7               1371.15    0.01       0          0
0          0
C11             J-WA12           J3               64.56      0.01       0          0
0          0
C12             J-WA11           J-WA04           1232.5     0.01       0          0
0          0
C13             J-WA34           J-WA14           777.89     0.01       0          0
0          0
C14             J-WA31           J-WA15           18352.72   0.01       0          0
0          0
```

```
C15             J-WA17          J-WA34          655.07     0.01       0          0
0          0
C16             J-WA32          J-WA16          32.01      0.01       0          0
0          0
C17             J-WA16          J-WA17          1096.77    0.01       0          0
0          0
C18             J-WA10          J4              942.49     0.01       0          0
0          0
C19             J4              J2              423.91     0.01       0          0
0          0
C21             J-WA08          J-WA05          1191.06    0.01       0          0
0          0
C22             J-WA35          J-WA06          733.47     0.01       0          0
0          0
C23             J-WA20          J-WA08          1248.04    0.01       0          0
0          0
C24             J-WA19          J-WA10          1651.2     0.01       0          0
0          0
C25             J-WA18          J-WA11          985.47     0.01       0          0
0          0
C26             J-WA25          J5              402.02     0.01       0          0
0          0
C28             J5              J-WA18          953.32     0.01       0          0
0          0
C29             J-WA33          J5              486.36     0.01       0          0
0          0
C30             J-WA22          J-WA21          72.63      0.01       0          0
0          0
C31             J-WA21          J-WA33          459.5      0.01       0          0
0          0
C32             J-WA27          J-WA22          449.6      0.01       0          0
0          0
C33             J-WA26          J-WA27          105.73     0.01       0          0
0          0
C34             J-WA28          J-WA27          1033.37    0.01       0          0
0          0
C35             J-WA29          J-WA30          45.58      0.01       0          0
0          0
C36             J-WA30          J-WA26          1049.2     0.01       0          0
0          0
C37             J-WA23          J-WA25          1601.92    0.01       0          0
0          0
C27             J-WA24          J-WA25          13.88      0.01       0          0
0          0
C4              J-WA03          J7              260.83     0.01       0          0
0          0
C39             J-WA04          J7              27.78      0.01       0          0
0          0
C40             J-WA13          J3              501.29     0.01       0          0
0          0
C41             J-WA09          J-WA10          295.87     0.01       0          0
0          0
C42             J-WA07          J-WA35          1159.22    0.01       0          0
0          0

[XSECTIONS]
;;Link           Shape        Geom1            Geom2      Geom3      Geom4      Barrels
;;-------------- ------------ ---------------- ---------- ---------- ---------- ----------
C1              IRREGULAR    largeriver       0          0          0          1
C2              IRREGULAR    largeriver       0          0          0          1
C3              IRREGULAR    channel-main3rd  0          0          0          1
C5              IRREGULAR    largeriver       0          0          0          1
C6              IRREGULAR    largeriver       0          0          0          1
C7              IRREGULAR    channel-main1st  0          0          0          1
C8              IRREGULAR    channel-main3rd  0          0          0          1
C9              IRREGULAR    largeriver       0          0          0          1
C10             IRREGULAR    street-main      0          0          0          1
C11             IRREGULAR    street-main      0          0          0          1
C12             IRREGULAR    channel-overflow3r 0          0          0          1
C13             IRREGULAR    channel-main2nd  0          0          0          1
C14             IRREGULAR    largeriver       0          0          0          1
C15             IRREGULAR    channel-main2nd  0          0          0          1
C16             IRREGULAR    street-main      0          0          0          1
C17             IRREGULAR    channel-main2nd  0          0          0          1
C18             IRREGULAR    channel-overflow3r 0          0          0          1
C19             IRREGULAR    largeriver       0          0          0          1
C21             IRREGULAR    channel-main2nd  0          0          0          1
C22             IRREGULAR    channel-main1st  0          0          0          1
C23             IRREGULAR    channel-main1st  0          0          0          1
C24             IRREGULAR    street-main      0          0          0          1
C25             IRREGULAR    channel-overflow3r 0          0          0          1
C26             IRREGULAR    channel-main1st  0          0          0          1
C28             IRREGULAR    channel-main3rd  0          0          0          1
C29             IRREGULAR    channel-overflow2n 0          0          0          1
C30             IRREGULAR    channel-overflow2n 0          0          0          1
C31             IRREGULAR    channel-overflow2n 0          0          0          1
C32             IRREGULAR    channel-overflow2n 0          0          0          1
C33             IRREGULAR    channel-overflow2n 0          0          0          1
C34             IRREGULAR    channel-overflow1s 0          0          0          1
C35             IRREGULAR    channel-main1st  0          0          0          1
C36             IRREGULAR    channel-overflow2n 0          0          0          1
C37             IRREGULAR    channel-overflow1s 0          0          0          1
C27             DUMMY        0                0          0          0          1
C4              IRREGULAR    largeriver       0          0          0          1
C39             IRREGULAR    largeriver       0          0          0          1
C40             IRREGULAR    street-main      0          0          0          1
C41             IRREGULAR    street-main      0          0          0          1
C42             IRREGULAR    channel-main1st  0          0          0          1

[TRANSECTS]

NC 0.0625   0.0625   0.0375
X1 channel-main1st  8        4        8        0.0      0.0      0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        8
GR 0.5      8        1.5      12       5.5      28

NC 0.0625   0.0625   0.0375
X1 channel-main2nd  8        4        12       0.0      0.0      0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        12
GR 0.5      12       1.5      16       5.5      32

NC 0.0625   0.0625   0.0375
X1 channel-main3rd  8        4        16       0.0      0.0      0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        16
GR 0.5      16       1.5      20       5.5      36

NC 0.0625   0.0625   0.0375
X1 channel-overflow1s 8        20       28       0.0      0.0      0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        28
GR 1        28       2        48       6        128

NC 0.0625   0.0625   0.0375
X1 channel-overflow2n 8        20       35       0.0      0.0      0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        35
GR 1        35       2        55       6        135
```

```
NC 0.0625   0.0625   0.0375
X1 channel-overflow3r 8        20       50       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        60
GR 1        60       2        80       6        160

NC 0.0625   0.0625   0.01875
X1 street-main      9        6        30.5     0.0       0.0       0.0      0.0      0.0
GR 7        -18      1        0        0        3        1        6        1.25     18.5
GR 1        30.5     0        33.5     1        36.5     7        54.5

NC 0.0625   0.0625   0.01875
X1 street-overflow  11       13       53       0.0       0.0       0.0      0.0      0.0
GR 3        -20      2        0        0        6        0        7        2        13
GR 2.4      33       2        53       0        59       0        60       2        66
GR 3        86

NC 0.0625   0.0625   0.035
X1 largeriver       12       21       41       0.0       0.0       0.0      0.0      0.0
GR 10       -45      7        -45      5        -5       4        15       2        21
GR 0        21       0        41       2        41       4        47       5        67
GR 7        107      10       107

NC 0.122    0.122    0.073
X1 channel-main1a   8        4        8        0.0       0.0       0.0      0.0      0.0
GR 5.5      -16      1.5      0        0.5      4        0        4        0        8
GR 0.5      8        1.5      12       5.5      28

NC 0.122    0.122    0.073
X1 channel-overflow1a 8        20       28       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        28
GR 1        28       2        48       6        128

NC 0.122    0.122    0.073
X1 Channel-overflow2a 8        20       35       0.0       0.0       0.0      0.0      0.0
GR 6        -80      2        0        1        20       0        20       0        35
GR 1        35       2        55       6        135

[LOSSES]
;;Link           Inlet      Outlet     Average    Flap Gate
;;-------------- ---------- ---------- ---------- ----------

[TIMESERIES]
;;Name           Date       Time       Value
;;-------------- ---------- ---------- ----------
;SCS_24h_Type_II_2.8in design storm, total rainfall = 2.8 in, rain units = in/hr.
SCS_24h_Type_II_2.8in            0:00       0
SCS_24h_Type_II_2.8in            0:15       0.03696
SCS_24h_Type_II_2.8in            0:30       0.03696
SCS_24h_Type_II_2.8in            0:45       0.03808
SCS_24h_Type_II_2.8in            1:00       0.03696
SCS_24h_Type_II_2.8in            1:15       0.03696
SCS_24h_Type_II_2.8in            1:30       0.03808
SCS_24h_Type_II_2.8in            1:45       0.03696
SCS_24h_Type_II_2.8in            2:00       0.03696
SCS_24h_Type_II_2.8in            2:15       0.03808
SCS_24h_Type_II_2.8in            2:30       0.03696
SCS_24h_Type_II_2.8in            2:45       0.03696
SCS_24h_Type_II_2.8in            3:00       0.03808
SCS_24h_Type_II_2.8in            3:15       0.03696
SCS_24h_Type_II_2.8in            3:30       0.03696
SCS_24h_Type_II_2.8in            3:45       0.03808
SCS_24h_Type_II_2.8in            4:00       0.03696
SCS_24h_Type_II_2.8in            4:15       0.03696
SCS_24h_Type_II_2.8in            4:30       0.03808
SCS_24h_Type_II_2.8in            4:45       0.03696
SCS_24h_Type_II_2.8in            5:00       0.03696
SCS_24h_Type_II_2.8in            5:15       0.03808
SCS_24h_Type_II_2.8in            5:30       0.03696
SCS_24h_Type_II_2.8in            5:45       0.03696
SCS_24h_Type_II_2.8in            6:00       0.03808
SCS_24h_Type_II_2.8in            6:15       0.03696
SCS_24h_Type_II_2.8in            6:30       0.03696
SCS_24h_Type_II_2.8in            6:45       0.03808
SCS_24h_Type_II_2.8in            7:00       0.03696
SCS_24h_Type_II_2.8in            7:15       0.03696
SCS_24h_Type_II_2.8in            7:30       0.03808
SCS_24h_Type_II_2.8in            7:45       0.07392
SCS_24h_Type_II_2.8in            8:00       0.07504
SCS_24h_Type_II_2.8in            8:15       0.07504
SCS_24h_Type_II_2.8in            8:30       0.07392
SCS_24h_Type_II_2.8in            8:45       0.07504
SCS_24h_Type_II_2.8in            9:00       0.07504
SCS_24h_Type_II_2.8in            9:15       0.112
SCS_24h_Type_II_2.8in            9:30       0.112
SCS_24h_Type_II_2.8in            9:45       0.112
SCS_24h_Type_II_2.8in            10:00      0.112
SCS_24h_Type_II_2.8in            10:15      0.112
SCS_24h_Type_II_2.8in            10:30      0.112
SCS_24h_Type_II_2.8in            10:45      0.224
SCS_24h_Type_II_2.8in            11:00      0.224
SCS_24h_Type_II_2.8in            11:15      0.336
SCS_24h_Type_II_2.8in            11:30      0.56
SCS_24h_Type_II_2.8in            11:45      0.672
SCS_24h_Type_II_2.8in            12:00      1.344
SCS_24h_Type_II_2.8in            12:15      1.344
SCS_24h_Type_II_2.8in            12:30      0.672
SCS_24h_Type_II_2.8in            12:45      0.56
SCS_24h_Type_II_2.8in            13:00      0.336
SCS_24h_Type_II_2.8in            13:15      0.224
SCS_24h_Type_II_2.8in            13:30      0.224
SCS_24h_Type_II_2.8in            13:45      0.112
SCS_24h_Type_II_2.8in            14:00      0.112
SCS_24h_Type_II_2.8in            14:15      0.112
SCS_24h_Type_II_2.8in            14:30      0.112
SCS_24h_Type_II_2.8in            14:45      0.112
SCS_24h_Type_II_2.8in            15:00      0.112
SCS_24h_Type_II_2.8in            15:15      0.07392
SCS_24h_Type_II_2.8in            15:30      0.07504
SCS_24h_Type_II_2.8in            15:45      0.07504
SCS_24h_Type_II_2.8in            16:00      0.07392
SCS_24h_Type_II_2.8in            16:15      0.07504
SCS_24h_Type_II_2.8in            16:30      0.07504
SCS_24h_Type_II_2.8in            16:45      0.03696
SCS_24h_Type_II_2.8in            17:00      0.03696
SCS_24h_Type_II_2.8in            17:15      0.03808
SCS_24h_Type_II_2.8in            17:30      0.03696
SCS_24h_Type_II_2.8in            17:45      0.03696
SCS_24h_Type_II_2.8in            18:00      0.03808
SCS_24h_Type_II_2.8in            18:15      0.03696
SCS_24h_Type_II_2.8in            18:30      0.03696
SCS_24h_Type_II_2.8in            18:45      0.03808
SCS_24h_Type_II_2.8in            19:00      0.03696
SCS_24h_Type_II_2.8in            19:15      0.03696
SCS_24h_Type_II_2.8in            19:30      0.03808
SCS_24h_Type_II_2.8in            19:45      0.03696
SCS_24h_Type_II_2.8in            20:00      0.03696
```

```
SCS_24h_Type_II_2.8in           20:15      0.03808
SCS_24h_Type_II_2.8in           20:30      0.03696
SCS_24h_Type_II_2.8in           20:45      0.03696
SCS_24h_Type_II_2.8in           21:00      0.03808
SCS_24h_Type_II_2.8in           21:15      0.03696
SCS_24h_Type_II_2.8in           21:30      0.03696
SCS_24h_Type_II_2.8in           21:45      0.03808
SCS_24h_Type_II_2.8in           22:00      0.03696
SCS_24h_Type_II_2.8in           22:15      0.03696
SCS_24h_Type_II_2.8in           22:30      0.03808
SCS_24h_Type_II_2.8in           22:45      0.03696
SCS_24h_Type_II_2.8in           23:00      0.03696
SCS_24h_Type_II_2.8in           23:15      0.03808
SCS_24h_Type_II_2.8in           23:30      0.03696
SCS_24h_Type_II_2.8in           23:45      0.03696
SCS_24h_Type_II_2.8in           24:00      0.03808

UDFCD100                    0:05       0.0146
UDFCD100                    0:10       0.0438
UDFCD100                    0:15       0.06716
UDFCD100                    0:20       0.1168
UDFCD100                    0:25       0.2044
UDFCD100                    0:30       0.365
UDFCD100                    0:35       0.2044
UDFCD100                    0:40       0.1168
UDFCD100                    0:45       0.09052
UDFCD100                    0:50       0.073
UDFCD100                    0:55       0.0584
UDFCD100                    1:00       0.0584
UDFCD100                    1:05       0.0584
UDFCD100                    1:10       0.0292
UDFCD100                    1:15       0.0292
UDFCD100                    1:20       0.01752
UDFCD100                    1:25       0.01752
UDFCD100                    1:30       0.01752
UDFCD100                    1:35       0.01752
UDFCD100                    1:40       0.01752
UDFCD100                    1:45       0.01752
UDFCD100                    1:50       0.01752
UDFCD100                    1:55       0.01752
UDFCD100                    2:00       0.01752
UDFCD100                    2:05       0

;SCS_24h_Type_II_1.7in design storm, total rainfall = 1.7 in, rain units = in.
SCS_24h_Type_II_1.7in           0:00       0.00468
SCS_24h_Type_II_1.7in           0:15       0.00468
SCS_24h_Type_II_1.7in           0:30       0.00468
SCS_24h_Type_II_1.7in           0:45       0.00468
SCS_24h_Type_II_1.7in           1:00       0.00468
SCS_24h_Type_II_1.7in           1:15       0.00468
SCS_24h_Type_II_1.7in           1:30       0.00468
SCS_24h_Type_II_1.7in           1:45       0.00468
SCS_24h_Type_II_1.7in           2:00       0.00552
SCS_24h_Type_II_1.7in           2:15       0.00552
SCS_24h_Type_II_1.7in           2:30       0.00552
SCS_24h_Type_II_1.7in           2:45       0.00552
SCS_24h_Type_II_1.7in           3:00       0.00552
SCS_24h_Type_II_1.7in           3:15       0.00552
SCS_24h_Type_II_1.7in           3:30       0.00552
SCS_24h_Type_II_1.7in           3:45       0.00552
SCS_24h_Type_II_1.7in           4:00       0.0068
SCS_24h_Type_II_1.7in           4:15       0.0068
SCS_24h_Type_II_1.7in           4:30       0.0068
SCS_24h_Type_II_1.7in           4:45       0.0068
SCS_24h_Type_II_1.7in           5:00       0.0068
SCS_24h_Type_II_1.7in           5:15       0.0068
SCS_24h_Type_II_1.7in           5:30       0.0068
SCS_24h_Type_II_1.7in           5:45       0.0068
SCS_24h_Type_II_1.7in           6:00       0.00765
SCS_24h_Type_II_1.7in           6:15       0.00765
SCS_24h_Type_II_1.7in           6:30       0.00765
SCS_24h_Type_II_1.7in           6:45       0.00765
SCS_24h_Type_II_1.7in           7:00       0.00935
SCS_24h_Type_II_1.7in           7:15       0.00935
SCS_24h_Type_II_1.7in           7:30       0.00935
SCS_24h_Type_II_1.7in           7:45       0.00935
SCS_24h_Type_II_1.7in           8:00       0.0111
SCS_24h_Type_II_1.7in           8:15       0.0111
SCS_24h_Type_II_1.7in           8:30       0.0119
SCS_24h_Type_II_1.7in           8:45       0.0119
SCS_24h_Type_II_1.7in           9:00       0.0136
SCS_24h_Type_II_1.7in           9:15       0.0136
SCS_24h_Type_II_1.7in           9:30       0.0153
SCS_24h_Type_II_1.7in           9:45       0.0153
SCS_24h_Type_II_1.7in           10:00      0.0196
SCS_24h_Type_II_1.7in           10:15      0.0196
SCS_24h_Type_II_1.7in           10:30      0.0264
SCS_24h_Type_II_1.7in           10:45      0.0264
SCS_24h_Type_II_1.7in           11:00      0.0408
SCS_24h_Type_II_1.7in           11:15      0.0408
SCS_24h_Type_II_1.7in           11:30      0.126
SCS_24h_Type_II_1.7in           11:45      0.52
SCS_24h_Type_II_1.7in           12:00      0.0612
SCS_24h_Type_II_1.7in           12:15      0.0612
SCS_24h_Type_II_1.7in           12:30      0.0314
SCS_24h_Type_II_1.7in           12:45      0.0314
SCS_24h_Type_II_1.7in           13:00      0.023
SCS_24h_Type_II_1.7in           13:15      0.023
SCS_24h_Type_II_1.7in           13:30      0.0178
SCS_24h_Type_II_1.7in           13:45      0.0178
SCS_24h_Type_II_1.7in           14:00      0.0127
SCS_24h_Type_II_1.7in           14:15      0.0127
SCS_24h_Type_II_1.7in           14:30      0.0127
SCS_24h_Type_II_1.7in           14:45      0.0127
SCS_24h_Type_II_1.7in           15:00      0.0127
SCS_24h_Type_II_1.7in           15:15      0.0127
SCS_24h_Type_II_1.7in           15:30      0.0127
SCS_24h_Type_II_1.7in           15:45      0.0127
SCS_24h_Type_II_1.7in           16:00      0.00765
SCS_24h_Type_II_1.7in           16:15      0.00765
SCS_24h_Type_II_1.7in           16:30      0.00765
SCS_24h_Type_II_1.7in           16:45      0.00765
SCS_24h_Type_II_1.7in           17:00      0.00765
SCS_24h_Type_II_1.7in           17:15      0.00765
SCS_24h_Type_II_1.7in           17:30      0.00765
SCS_24h_Type_II_1.7in           17:45      0.00765
SCS_24h_Type_II_1.7in           18:00      0.00765
SCS_24h_Type_II_1.7in           18:15      0.00765
SCS_24h_Type_II_1.7in           18:30      0.00765
SCS_24h_Type_II_1.7in           18:45      0.00765
SCS_24h_Type_II_1.7in           19:00      0.00765
SCS_24h_Type_II_1.7in           19:15      0.00765
SCS_24h_Type_II_1.7in           19:30      0.00765
SCS_24h_Type_II_1.7in           19:45      0.00765
SCS_24h_Type_II_1.7in           20:00      0.0051
SCS_24h_Type_II_1.7in           20:15      0.0051
```

```
SCS_24h_Type_II_1.7in           20:30      0.0051
SCS_24h_Type_II_1.7in           20:45      0.0051
SCS_24h_Type_II_1.7in           21:00      0.0051
SCS_24h_Type_II_1.7in           21:15      0.0051
SCS_24h_Type_II_1.7in           21:30      0.0051
SCS_24h_Type_II_1.7in           21:45      0.0051
SCS_24h_Type_II_1.7in           22:00      0.0051
SCS_24h_Type_II_1.7in           22:15      0.0051
SCS_24h_Type_II_1.7in           22:30      0.0051
SCS_24h_Type_II_1.7in           22:45      0.0051
SCS_24h_Type_II_1.7in           23:00      0.0051
SCS_24h_Type_II_1.7in           23:15      0.0051
SCS_24h_Type_II_1.7in           23:30      0.0051
SCS_24h_Type_II_1.7in           23:45      0.0051
SCS_24h_Type_II_1.7in           24:00      0

;SCS_24h_Type_II_2.4in design storm, total rainfall = 2.4 in, rain units = in.
SCS_24h_Type_II_2.4in           0:00       0.0066
SCS_24h_Type_II_2.4in           0:15       0.0066
SCS_24h_Type_II_2.4in           0:30       0.0066
SCS_24h_Type_II_2.4in           0:45       0.0066
SCS_24h_Type_II_2.4in           1:00       0.0066
SCS_24h_Type_II_2.4in           1:15       0.0066
SCS_24h_Type_II_2.4in           1:30       0.0066
SCS_24h_Type_II_2.4in           1:45       0.0066
SCS_24h_Type_II_2.4in           2:00       0.0078
SCS_24h_Type_II_2.4in           2:15       0.0078
SCS_24h_Type_II_2.4in           2:30       0.0078
SCS_24h_Type_II_2.4in           2:45       0.0078
SCS_24h_Type_II_2.4in           3:00       0.0078
SCS_24h_Type_II_2.4in           3:15       0.0078
SCS_24h_Type_II_2.4in           3:30       0.0078
SCS_24h_Type_II_2.4in           3:45       0.0078
SCS_24h_Type_II_2.4in           4:00       0.0096
SCS_24h_Type_II_2.4in           4:15       0.0096
SCS_24h_Type_II_2.4in           4:30       0.0096
SCS_24h_Type_II_2.4in           4:45       0.0096
SCS_24h_Type_II_2.4in           5:00       0.0096
SCS_24h_Type_II_2.4in           5:15       0.0096
SCS_24h_Type_II_2.4in           5:30       0.0096
SCS_24h_Type_II_2.4in           5:45       0.0096
SCS_24h_Type_II_2.4in           6:00       0.0108
SCS_24h_Type_II_2.4in           6:15       0.0108
SCS_24h_Type_II_2.4in           6:30       0.0108
SCS_24h_Type_II_2.4in           6:45       0.0108
SCS_24h_Type_II_2.4in           7:00       0.0132
SCS_24h_Type_II_2.4in           7:15       0.0132
SCS_24h_Type_II_2.4in           7:30       0.0132
SCS_24h_Type_II_2.4in           7:45       0.0132
SCS_24h_Type_II_2.4in           8:00       0.0156
SCS_24h_Type_II_2.4in           8:15       0.0156
SCS_24h_Type_II_2.4in           8:30       0.0168
SCS_24h_Type_II_2.4in           8:45       0.0168
SCS_24h_Type_II_2.4in           9:00       0.0192
SCS_24h_Type_II_2.4in           9:15       0.0192
SCS_24h_Type_II_2.4in           9:30       0.0216
SCS_24h_Type_II_2.4in           9:45       0.0216
SCS_24h_Type_II_2.4in           10:00      0.0276
SCS_24h_Type_II_2.4in           10:15      0.0276
SCS_24h_Type_II_2.4in           10:30      0.0372
SCS_24h_Type_II_2.4in           10:45      0.0372
SCS_24h_Type_II_2.4in           11:00      0.0576
SCS_24h_Type_II_2.4in           11:15      0.0576
SCS_24h_Type_II_2.4in           11:30      0.178
SCS_24h_Type_II_2.4in           11:45      0.734
SCS_24h_Type_II_2.4in           12:00      0.0864
SCS_24h_Type_II_2.4in           12:15      0.0864
SCS_24h_Type_II_2.4in           12:30      0.0444
SCS_24h_Type_II_2.4in           12:45      0.0444
SCS_24h_Type_II_2.4in           13:00      0.0324
SCS_24h_Type_II_2.4in           13:15      0.0324
SCS_24h_Type_II_2.4in           13:30      0.0252
SCS_24h_Type_II_2.4in           13:45      0.0252
SCS_24h_Type_II_2.4in           14:00      0.018
SCS_24h_Type_II_2.4in           14:15      0.018
SCS_24h_Type_II_2.4in           14:30      0.018
SCS_24h_Type_II_2.4in           14:45      0.018
SCS_24h_Type_II_2.4in           15:00      0.018
SCS_24h_Type_II_2.4in           15:15      0.018
SCS_24h_Type_II_2.4in           15:30      0.018
SCS_24h_Type_II_2.4in           15:45      0.018
SCS_24h_Type_II_2.4in           16:00      0.0108
SCS_24h_Type_II_2.4in           16:15      0.0108
SCS_24h_Type_II_2.4in           16:30      0.0108
SCS_24h_Type_II_2.4in           16:45      0.0108
SCS_24h_Type_II_2.4in           17:00      0.0108
SCS_24h_Type_II_2.4in           17:15      0.0108
SCS_24h_Type_II_2.4in           17:30      0.0108
SCS_24h_Type_II_2.4in           17:45      0.0108
SCS_24h_Type_II_2.4in           18:00      0.0108
SCS_24h_Type_II_2.4in           18:15      0.0108
SCS_24h_Type_II_2.4in           18:30      0.0108
SCS_24h_Type_II_2.4in           18:45      0.0108
SCS_24h_Type_II_2.4in           19:00      0.0108
SCS_24h_Type_II_2.4in           19:15      0.0108
SCS_24h_Type_II_2.4in           19:30      0.0108
SCS_24h_Type_II_2.4in           19:45      0.0108
SCS_24h_Type_II_2.4in           20:00      0.0072
SCS_24h_Type_II_2.4in           20:15      0.0072
SCS_24h_Type_II_2.4in           20:30      0.0072
SCS_24h_Type_II_2.4in           20:45      0.0072
SCS_24h_Type_II_2.4in           21:00      0.0072
SCS_24h_Type_II_2.4in           21:15      0.0072
SCS_24h_Type_II_2.4in           21:30      0.0072
SCS_24h_Type_II_2.4in           21:45      0.0072
SCS_24h_Type_II_2.4in           22:00      0.0072
SCS_24h_Type_II_2.4in           22:15      0.0072
SCS_24h_Type_II_2.4in           22:30      0.0072
SCS_24h_Type_II_2.4in           22:45      0.0072
SCS_24h_Type_II_2.4in           23:00      0.0072
SCS_24h_Type_II_2.4in           23:15      0.0072
SCS_24h_Type_II_2.4in           23:30      0.0072
SCS_24h_Type_II_2.4in           23:45      0.0072
SCS_24h_Type_II_2.4in           24:00      0

Timeseries1                 0:05       0.0156
Timeseries1                 0:10       0.02886
Timeseries1                 0:15       0.06786
Timeseries1                 0:20       0.11934
Timeseries1                 0:25       0.195
Timeseries1                 0:30       0.1014
Timeseries1                 0:35       0.04524
Timeseries1                 0:40       0.03432
Timeseries1                 0:45       0.02808
Timeseries1                 0:50       0.02808
Timeseries1                 0:55       0.0234
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```
Timeseries1                 1:00       0.0234
Timeseries1                 1:05       0.0234
Timeseries1                 1:10       0.0234
Timeseries1                 1:15       0.0195
Timeseries1                 1:20       0.01716
Timeseries1                 1:25       0.01716
Timeseries1                 1:30       0.01716
Timeseries1                 1:35       0.01716
Timeseries1                 1:40       0.0117
Timeseries1                 1:45       0.0117
Timeseries1                 1:50       0.0117
Timeseries1                 1:55       0.0117
Timeseries1                 2:00       0.01014
Timeseries1                 2:05       0


[REPORT]
INPUT      YES
CONTROLS   NO
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]

[MAP]
DIMENSIONS       2630116.77675883 1372217.85027991 2686469.87852113 1418989.90938438
UNITS            Feet

[COORDINATES]
;;Node           X-Coord          Y-Coord
;;-------------- ---------------- ----------------
J-WA02           2633866.653      1409385.813
J-WA05           2634664.915      1408913.371
J-WA20           2636913.024      1409162.858
J-WA19           2637091.939      1408656.556
J-WA10           2635765.723      1408269.62
J-WA11           2635791.256      1407867.929
J-WA18           2636715.778      1407928.876
J-WA12           2635753.892      1407670.246
J7               2634672.313      1408085.553
J-WA34           2635895.381      1406759.883
J-WA17           2636498.12       1406988.388
J-WA14           2635498.462      1406192.573
J-WA03           2634517.376      1407875.752
J-WA16           2637492.904      1407211.236
J-WA25           2637885.025      1407499.415
J-WA24           2637894.847      1407509.218
J-WA33           2637951.559      1408086.376
J-WA21           2638292.977      1408380.709
J-WA22           2638357.896      1408413.286
J-WA27           2638783.117      1408558.136
J-WA26           2638888.846      1408558.654
J-WA29           2639813.745      1408673.745
J-WA30           2639801.11       1408629.956
J-WA23           2639246.768      1407409.574
J-WA15           2635331.612      1405754.303
J-WA28           2639359.573      1409375.035
J-WA06           2635081.471      1409079.909
J-WA07           2636755.087      1409498.036
J-WA08           2635790.446      1408881.79
J-WA31           2641601.008      1394035.215
J-WA09           2635808.843      1408562.305
J-WA32           2637481.252      1407181.42
J1               2634797.562      1406494.58
J2               2634586.522      1408767.02
J3               2635749.504      1407605.837
J4               2634865.077      1408467.313
J5               2637600.279      1407767.885
J-WA04           2634698.796      1408077.162
J-WA13           2635765.35       1407104.841
J-WA35           2635797.316      1409084.085
J-WA01           2633167.813      1409829.967

[VERTICES]
;;Link           X-Coord          Y-Coord
;;-------------- ---------------- ----------------
C1               2635286.904      1405908.853
C1               2635264.661      1405949.632
C1               2635220.175      1405964.46
C1               2635146.033      1405931.096
C1               2635049.647      1405882.903
C1               2634923.605      1405816.175
C1               2634823.512      1405808.761
C1               2634749.37       1405808.761
C1               2634701.177      1405845.832
C1               2634660.398      1405894.025
C1               2634634.449      1405971.874
C1               2634627.034      1406071.967
C1               2634645.57       1406123.867
C1               2634690.056      1406227.666
C1               2634723.42       1406298.102
C1               2634775.32       1406375.952
C1               2634793.855      1406424.144
C2               2634760.491      1406605.794
C2               2634708.591      1406653.987
C2               2634619.62       1406661.401
C2               2634549.185      1406676.229
C2               2634471.335      1406713.301
C2               2634423.142      1406754.079
C2               2634400.899      1406846.758
C2               2634404.606      1406869
C2               2634445.385      1406932.022
C2               2634482.456      1406991.336
C2               2634530.649      1407032.114
C2               2634567.72       1407084.014
C2               2634582.549      1407135.914
C2               2634586.256      1407176.692
C2               2634567.72       1407213.764
C2               2634538.063      1407273.078
C2               2634515.82       1407332.392
C2               2634489.87       1407406.534
C2               2634486.163      1407480.677
C2               2634486.163      1407539.991
C2               2634504.699      1407591.891
C2               2634534.356      1407636.377
C2               2634545.477      1407684.569
C2               2634534.356      1407769.833
C2               2634523.235      1407836.562
C3               2635416.653      1406238.788
C3               2635305.439      1406301.809
C3               2635216.468      1406368.537
C3               2635138.619      1406409.316
C3               2635042.233      1406457.509
C3               2634938.433      1406498.287
C3               2634912.483      1406509.409
```

C3	2634867.998	1406509.409
C3	2634834.634	1406505.701
C5	2633635.401	1409466.301
C5	2633417.186	1409509.283
C5	2633337.835	1409585.327
C5	2633291.547	1409608.471
C5	2633245.258	1409648.147
C5	2633205.583	1409714.273
C6	2634509.376	1408786.857
C6	2634399.167	1408806.695
C6	2634291.162	1408868.412
C6	2634183.158	1408958.783
C6	2634121.441	1409046.95
C6	2634057.52	1409179.2
C6	2634015.64	1409296.022
C6	2633975.965	1409384.189
C6	2633923.065	1409410.639
C7	2635042.786	1409035.929
C7	2634998.702	1409042.541
C7	2634923.76	1409046.95
C7	2634859.839	1409053.562
C7	2634806.939	1409049.154
C7	2634771.672	1409029.316
C7	2634738.61	1409009.479
C7	2634714.364	1408985.233
C7	2634698.935	1408952.17
C8	2634630.605	1408835.349
C9	2634678.958	1408128.044
C9	2634709.801	1408135.489
C9	2634756.596	1408156.76
C9	2634807.646	1408191.856
C9	2634835.298	1408247.16
C9	2634854.442	1408305.655
C9	2634866.141	1408368.404
C9	2634867.204	1408426.899
C10	2635635.872	1407570.393
C10	2635581.663	1407575.605
C10	2635382.546	1407583.945
C10	2635244.937	1407571.435
C10	2635135.475	1407563.095
C10	2635039.565	1407564.138
C10	2634986.398	1407614.177
C10	2634941.571	1407671.515
C10	2634820.641	1407860.206
C10	2634760.176	1407885.226
C10	2634711.179	1407983.221
C10	2634672.313	1408085.55
C12	2635701.549	1407836.229
C12	2635623.362	1407829.974
C12	2635570.195	1407816.421
C12	2635508.688	1407803.911
C12	2635478.455	1407803.911
C12	2635254.319	1407832.059
C12	2635100.03	1407851.866
C12	2635037.48	1407863.334
C12	2634979.1	1407861.249
C12	2634936.358	1407863.334
C12	2634918.636	1407877.929
C12	2634896.743	1407909.203
C12	2634867.553	1407954.031
C12	2634855.043	1407987.391
C12	2634854.001	1408042.643
C12	2634781.026	1408055.153
C13	2635837.791	1406726.829
C13	2635791.767	1406689.173
C13	2635749.927	1406648.727
C13	2635716.454	1406634.78
C13	2635656.483	1406620.834
C13	2635611.854	1406552.495
C13	2635604.88	1406525.996
C13	2635582.566	1406439.526
C13	2635585.355	1406392.107
C13	2635599.302	1406334.925
C13	2635597.907	1406284.717
C13	2635570.013	1406240.087
C13	2635518.411	1406195.458
C14	2641533.771	1393859.825
C14	2641402.32	1393622.366
C14	2641118.217	1393414.589
C14	2640829.874	1393304.34
C14	2640524.569	1393304.34
C14	2640384.637	1393393.387
C14	2639841.873	1393524.838
C14	2639638.337	1393910.709
C14	2639591.693	1394067.602
C14	2639371.195	1394275.379
C14	2639222.783	1394589.164
C14	2639193.101	1394835.104
C14	2639294.869	1395144.649
C14	2639464.483	1395208.255
C14	2639502.646	1395449.954
C14	2639680.74	1395695.894
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[Polygons]

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WA18	2638159.729	1407950.872
WA18	2638227.112	1407911.321
WA18	2638259.339	1407843.938
WA10	2636626.42	1408589.177
WA10	2636650.64	1408578.451
WA10	2636699.251	1408576.715
WA10	2636760.015	1408581.923
WA10	2636799.945	1408580.187
WA10	2636854.633	1408587.999
WA10	2636926.682	1408632.27
WA10	2637010.883	1408680.881
WA10	2637041.265	1408701.715
WA10	2637062.966	1408708.659
WA10	2637073.614	1408708.865
WA10	2637099.656	1408625.532
WA10	2637112.677	1408568.24
WA10	2637146.531	1408521.365
WA10	2637219.447	1408432.823
WA10	2637342.927	1408282.307
WA10	2637409.669	1408234.517
WA10	2637478.883	1408217.213
WA10	2637615.261	1408312.2
WA10	2637412.156	1408126.183
WA10	2637271.511	1408075.872
WA10	2637222.718	1408071.965
WA10	2637035.183	1408050.481
WA10	2636882.604	1408005.337
WA10	2636784.948	1408061.977
WA10	2636722.588	1408126.08
WA10	2636315.782	1408127.955
WA10	2636153.673	1408108.424
WA10	2635997.423	1408059.596

WA10	2635762.228	1408043.028
WA10	2635763.201	1408305.11
WA10	2635777.089	1408561.042
WA10	2635892.045	1408550.114
WA10	2635977.982	1408548.812
WA10	2636066.524	1408563.135
WA10	2636164.18	1408551.416
WA10	2636272.253	1408569.646
WA10	2636323.034	1408598.291
WA10	2636347.774	1408586.573
WA10	2636375.118	1408577.458
WA10	2636412.878	1408587.875
WA10	2636467.565	1408617.823
WA10	2636536.576	1408600.896
WA10	2636570.43	1408581.364
WA10	2636626.42	1408589.177
WA07	2637318.394	1409808.467
WA07	2637533.672	1409801.523
WA07	2637617.006	1409801.523
WA07	2637766.311	1409808.467
WA07	2638209.019	1409789.37
WA07	2638439.922	1409513.328
WA07	2638443.21	1409488.749
WA07	2638095.475	1409415.056
WA07	2637834.338	1409452.881
WA07	2637656.309	1409453.95
WA07	2637621.929	1409435.685
WA07	2637436.76	1409416.469
WA07	2637358.151	1409367.557
WA07	2637331.948	1409362.316
WA07	2637276.048	1409332.62
WA07	2637275.033	1409332.776
WA07	2637207.921	1409343.101
WA07	2637207.333	1409342.99
WA07	2637143.286	1409330.873
WA07	2637110.096	1409283.707
WA07	2637108.741	1409282.495
WA07	2637041.811	1409222.602
WA07	2636876.158	1409231.835
WA07	2636848.042	1409293.807
WA07	2636828.768	1409334.303
WA07	2636750.565	1409458.471
WA07	2636719.593	1409524.059
WA07	2636704.81	1409595.241
WA07	2636701.375	1409640.659
WA07	2636701.188	1409804.158
WA07	2636708.034	1409876.292
WA07	2637009.367	1409877.912
WA07	2637318.394	1409808.467
WA04	2635633.168	1407608.225
WA04	2635597.18	1407608.225
WA04	2635459.851	1407602.732
WA04	2635053.357	1407586.252
WA04	2635024.792	1407580.759
WA04	2634980.847	1407621.409
WA04	2634963.269	1407648.874
WA04	2634887.463	1407733.469
WA04	2634799.573	1407863.108
WA04	2634763.318	1407941.111
WA04	2634738.049	1408016.916
WA04	2634672.313	1408085.553
WA04	2634691.36	1408111.346
WA04	2634899.07	1408241.164

WA04	2635030	1408471.949
WA04	2635045.808	1408501.776
WA04	2635483.091	1408335.76
WA04	2635521.379	1408324
WA04	2635763.201	1408305.11
WA04	2635762.228	1408043.028
WA04	2635755.046	1407728.191
WA04	2635748.813	1407607.308
WA04	2635633.168	1407608.225
WA20	2638439.461	1409452.974
WA20	2638457.039	1409392.428
WA20	2638441.414	1409326.021
WA20	2638425.789	1409286.959
WA20	2638384.774	1409206.881
WA20	2638423.836	1409087.74
WA20	2638378.914	1409015.474
WA20	2638310.555	1408984.224
WA20	2638306.649	1408892.428
WA20	2638275.437	1408880.089
WA20	2638226.609	1408870.323
WA20	2638195.359	1408885.948
WA20	2638130.906	1408923.058
WA20	2637998.093	1408999.23
WA20	2637957.078	1409003.136
WA20	2637912.156	1409014.855
WA20	2637826.218	1409053.917
WA20	2637781.296	1409059.777
WA20	2637683.64	1409069.542
WA20	2637550.495	1409042.847
WA20	2637466.945	1409025.486
WA20	2637436.563	1409007.04
WA20	2637049.861	1408807.35
WA20	2637039.76	1408833.865
WA20	2637029.775	1408864.653
WA20	2637008.51	1408930.219
WA20	2636977.26	1408982.303
WA20	2636950.858	1409042.887
WA20	2636924.816	1409113.199
WA20	2636876.158	1409231.835
WA20	2637041.811	1409222.602
WA20	2637108.741	1409282.495
WA20	2637110.096	1409283.707
WA20	2637143.286	1409330.873
WA20	2637207.333	1409342.99
WA20	2637207.921	1409343.101
WA20	2637275.033	1409332.776
WA20	2637276.048	1409332.62
WA20	2637331.948	1409362.316
WA20	2637358.151	1409367.557
WA20	2637436.76	1409416.469
WA20	2637621.929	1409435.685
WA20	2637656.309	1409453.95
WA20	2637834.338	1409452.881
WA20	2638095.475	1409415.056
WA20	2638443.21	1409488.749
WA20	2638455.578	1409487.893
WA20	2638455.276	1409487.24
WA20	2638439.461	1409452.974
WA11	2636713.833	1407854.781
WA11	2636567.319	1407850.158
WA11	2636437.848	1407801.098
WA11	2636325	1407798.625
WA11	2636304.735	1407810.774

WA11	2636283.499	1407821.132
WA11	2636261.449	1407829.62
WA11	2636238.749	1407836.177
WA11	2636215.569	1407840.753
WA11	2636192.08	1407843.314
WA11	2636168.458	1407843.841
WA11	2636144.879	1407842.331
WA11	2636010.33	1407798.928
WA11	2635988.629	1407791.333
WA11	2635871.441	1407712.122
WA11	2635809.593	1407684.996
WA11	2635752.227	1407673.523
WA11	2635755.046	1407728.191
WA11	2635762.228	1408043.028
WA11	2635997.423	1408059.596
WA11	2636153.673	1408108.424
WA11	2636315.782	1408127.955
WA11	2636722.588	1408126.08
WA11	2636722.588	1408030.478
WA11	2636718.988	1407966.497
WA11	2636713.833	1407913.748
WA11	2636713.833	1407854.781
WA06	2635790.446	1408881.79
WA06	2635734.638	1408865.343
WA06	2635635.679	1408828.885
WA06	2635460.332	1408814.996
WA06	2635346.771	1408849.924
WA06	2635140.568	1409009.609
WA06	2635081	1409053.939
WA06	2635079.787	1409118.013
WA06	2635079.787	1409229.517
WA06	2635076.526	1409239.953
WA06	2635087.431	1409243.269
WA06	2635195.765	1409270.352
WA06	2635265.401	1409306.417
WA06	2635337.155	1409503.017
WA06	2635470.727	1409509
WA06	2635513.539	1409518
WA06	2635638.986	1409512.389
WA06	2635761.512	1409514.294
WA06	2635807.399	1409542.406
WA06	2635793.341	1409016.436
WA06	2635790.446	1408881.79
WA17	2637481.427	1407186.441
WA17	2637478.069	1407183.419
WA17	2637476.767	1407158.679
WA17	2637465.048	1407061.023
WA17	2637441.611	1406943.835
WA17	2637407.756	1406792.794
WA17	2637379.111	1406671.7
WA17	2637355.673	1406567.533
WA17	2637319.215	1406502.429
WA17	2637295.721	1406478.935
WA17	2637224.726	1406554
WA17	2637040.507	1406616.493
WA17	2636953.42	1406683.42
WA17	2636838.5	1406721
WA17	2636689	1406857.204
WA17	2636647.034	1406864.69
WA17	2636559.638	1406824.297
WA17	2636548.304	1406854.899
WA17	2636516.122	1406941.791
WA17	2636485.549	1407001.327
WA17	2636474.537	1407022.772
WA17	2636506.638	1407067.457
WA17	2636563.359	1407132.934
WA17	2636610.051	1407200.053
WA17	2636693.426	1407254.678
WA17	2636694.68	1407255.5
WA17	2636797.208	1407260.931
WA17	2636807.891	1407261.496
WA17	2637072.897	1407275.533
WA17	2637289.659	1407274.258
WA17	2637350.253	1407273.901
WA17	2637444.973	1407273.344
WA17	2637504.067	1407242.702
WA17	2637481.427	1407186.441
WA09	2637008.51	1408930.219
WA09	2637029.775	1408864.653
WA09	2637039.76	1408833.865
WA09	2637060.593	1408779.178
WA09	2637073.614	1408708.865
WA09	2637062.966	1408708.659
WA09	2637041.265	1408701.715
WA09	2637010.883	1408680.881
WA09	2636926.682	1408632.27
WA09	2636854.633	1408587.999
WA09	2636799.945	1408580.187
WA09	2636760.015	1408581.923
WA09	2636699.251	1408576.715
WA09	2636650.64	1408578.451
WA09	2636626.42	1408589.177
WA09	2636570.43	1408581.364
WA09	2636536.576	1408600.896
WA09	2636467.565	1408617.823
WA09	2636412.878	1408587.875
WA09	2636375.118	1408577.458
WA09	2636347.774	1408586.573
WA09	2636323.034	1408598.291
WA09	2636272.253	1408569.646
WA09	2636164.18	1408551.416
WA09	2636066.524	1408563.135
WA09	2635977.982	1408548.812
WA09	2635892.045	1408550.114
WA09	2635777.089	1408561.042
WA09	2635790.411	1408880.205
WA09	2636043.647	1408883.814
WA09	2636434.272	1408894.231
WA09	2636541.042	1408881.21
WA09	2636673.855	1408912.46
WA09	2636801.459	1408938.502
WA09	2636977.26	1408982.303
WA09	2637008.51	1408930.219
WA34	2636474.537	1407022.772
WA34	2636485.549	1407001.327
WA34	2636516.122	1406941.791
WA34	2636548.304	1406854.899
WA34	2636559.638	1406824.297
WA34	2636514.806	1406807.34
WA34	2636159.777	1406673.054
WA34	2636137.48	1406663.828
WA34	2635933.088	1406582.494
WA34	2635858.311	1406749.853
WA34	2635779.315	1406959.981
WA34	2636087.424	1407056.001
WA34	2636315.288	1407116.765

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WA34            2636425.965      1407097.233
WA34            2636474.537      1407022.772
WA35            2636876.158      1409231.835
WA35            2636744.622      1409239.168
WA35            2636587.188      1409219.981
WA35            2636440.451      1409204.259
WA35            2636384.114      1409192.468
WA35            2636213.794      1409212.12
WA35            2636098.501      1409175.436
WA35            2636030.373      1409121.72
WA35            2635793.341      1409016.436
WA35            2635807.399      1409542.406
WA35            2635811.987      1409699.082
WA35            2635812.384      1409700.518
WA35            2635815.96       1409865.976
WA35            2636108.246      1409874.626
WA35            2636467.867      1409875
WA35            2636708.034      1409876.292
WA35            2636701.188      1409804.158
WA35            2636701.375      1409640.659
WA35            2636704.81       1409595.241
WA35            2636719.593      1409524.059
WA35            2636750.565      1409458.471
WA35            2636828.768      1409334.303
WA35            2636848.042      1409293.807
WA35            2636876.158      1409231.835

[SYMBOLS]
;;Gage           X-Coord          Y-Coord
;;-------------- ---------------- ----------------
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PCSWMM SAMPLE OUTPUT

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.022)

UDFCD gauge 100 year 2 hr

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... KINWAVE
Starting Date JUL-03-2012 00:00:00
Ending Date JUL-04-2012 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 300.00 sec

WARNING 02: maximum depth increased for Node J-BU09

WARNING 02: maximum depth increased for Node J-BU17

****
Element Count
****
Number of rain gages 1
Number of subcatchments ... 33
Number of nodes 35
Number of links 35
Number of pollutants 0
Number of land uses 0

****
Raingage Summary
****

Name	Data Source	Data Type	Recording Interval
UDFCD100	UDFCD100	VOLUME	5 min.

****
Subcatchment Summary
****

Name	Area	Width	%Imperv	%Slope	Rain Gage	Outlet
BU19	22.36	3869.73	44.90	11.6200	UDFCD100	J-BU19
BU29	155.29	12606.60	7.30	22.2400	UDFCD100	J-BU29
BU31	29.75	3111.51	37.40	21.0800	UDFCD100	J-BU31
BU08	10.67	1289.46	84.30	19.5400	UDFCD100	J-BU08
BU30	17.08	2484.68	38.50	13.6300	UDFCD100	J-BU30
BU24	23.06	3713.44	5.00	29.6000	UDFCD100	J-BU24
BU23	21.97	4739.80	26.60	22.6100	UDFCD100	J-BU23
BU16	26.79	4560.93	31.20	27.5400	UDFCD100	J-BU16
BU14	34.15	5369.65	48.70	23.6800	UDFCD100	J-BU14
BU17	18.70	2975.30	59.30	13.2800	UDFCD100	J-BU17
BU20	32.30	3451.64	46.10	16.9500	UDFCD100	J-BU20
BU21	17.04	2927.84	33.30	14.7500	UDFCD100	J-BU21
BU25	42.06	4753.10	5.90	34.7500	UDFCD100	J-BU25
BU26	31.91	5406.36	19.90	32.4800	UDFCD100	J-BU26
BU27	241.45	8708.54	2.40	30.1300	UDFCD100	J-BU27
BU15	36.11	3566.41	44.30	21.8700	UDFCD100	J-BU15
BU06	18.78	2678.85	85.90	3.5800	UDFCD100	J-BU06
BU01	5.85	1381.61	76.20	4.6900	UDFCD100	J-BU01
BU04	21.98	2889.97	79.20	6.3500	UDFCD100	J-BU04
BU13	21.48	3907.28	41.70	25.6900	UDFCD100	J-BU13
BU12	28.35	5151.32	70.50	10.4000	UDFCD100	J-BU12
BU10	32.76	6201.66	67.60	16.3100	UDFCD100	J-BU10
BU18	12.23	2418.02	73.70	16.1800	UDFCD100	J-BU18
BU22	40.49	4272.07	29.20	12.7200	UDFCD100	J-BU22
BU28	23.12	3197.04	5.00	25.9200	UDFCD100	J-BU28
BU03	4.43	1133.97	85.40	4.9300	UDFCD100	J-BU03
BU09	42.99	3473.51	43.00	12.0100	UDFCD100	J-BU09
BU07	8.23	2024.35	79.90	12.6200	UDFCD100	J-BU07
BU05	6.60	1474.34	81.10	7.5900	UDFCD100	J-BU05
BU11	12.93	3747.40	70.80	10.2400	UDFCD100	J-BU11
BU33	1509.79	33470.20	4.00	18.9400	UDFCD100	J-BU33
BU32	22.08	2492.56	32.50	19.3700	UDFCD100	J-BU32
BU02	12.51	3205.26	78.00	6.9600	UDFCD100	J-BU02

****
Node Summary
****

Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
J-BU31	JUNCTION	7222.00	6.00	0.0	
J-BU32	JUNCTION	7298.00	6.00	0.0	
J-BU33	JUNCTION	7350.00	6.00	0.0	
J-BU29	JUNCTION	7198.00	5.50	0.0	
J-BU28	JUNCTION	7196.00	5.50	0.0	
J-BU22	JUNCTION	7064.00	6.00	0.0	
J-BU23	JUNCTION	7068.00	6.00	0.0	
J-BU24	JUNCTION	7066.00	6.00	0.0	
J-BU16	JUNCTION	7006.00	6.00	0.0	
J-BU25	JUNCTION	7174.00	5.50	0.0	
J-BU10	JUNCTION	6858.00	6.00	0.0	
J-BU09	JUNCTION	6876.00	12.00	0.0	
J-BU11	JUNCTION	6850.00	5.50	0.0	
J-BU12	JUNCTION	6840.00	6.00	0.0	
J-BU13	JUNCTION	6968.00	6.00	0.0	
J-BU26	JUNCTION	7122.00	6.00	0.0	
J-BU18	JUNCTION	6965.00	5.50	0.0	
J-BU19	JUNCTION	7006.00	5.50	0.0	
J-BU20	JUNCTION	7124.00	5.50	0.0	
J-BU30	JUNCTION	7197.00	5.50	0.0	
J-BU27	JUNCTION	7440.00	5.50	0.0	
J-BU03	JUNCTION	6802.00	6.00	0.0	

J-BU02	JUNCTION	6782.00	6.00	0.0
J-BU04	JUNCTION	6804.00	6.00	0.0
J-BU05	JUNCTION	6838.00	6.00	0.0
J-BU06	JUNCTION	6888.00	6.00	0.0
J-BU15	JUNCTION	6956.00	5.50	0.0
J-BU14	JUNCTION	6904.00	6.00	0.0
J-BU08	JUNCTION	6950.00	6.00	0.0
J-BU07	JUNCTION	6940.00	5.50	0.0
J-BU21	JUNCTION	7034.00	2.00	0.0
J1	JUNCTION	6815.00	6.00	0.0
J-31a	JUNCTION	7143.00	6.00	0.0
J-BU01	OUTFALL	6768.00	6.00	0.0
J-BU17	DIVIDER	6944.00	12.00	0.0

****
Link Summary
****

Name	From Node	To Node	Type	Length	%Slope	Roughness
C1	J-BU02	J-BU01	CONDUIT	748.5	1.8707	0.0375
C2	J-BU04	J-BU02	CONDUIT	882.1	2.4947	0.0375
C3	J-BU03	J-BU02	CONDUIT	801.0	2.4975	0.0375
C4	J1	J-BU04	CONDUIT	306.1	3.5965	0.0375
C5	J-BU05	J1	CONDUIT	659.6	3.4891	0.0375
C6	J-BU12	J-BU03	CONDUIT	988.2	3.8483	0.0730
C7	J-BU10	J-BU05	CONDUIT	455.9	4.3914	0.0375
C8	J-BU06	J-BU05	CONDUIT	702.6	7.1343	0.0730
C9	J-BU11	J-BU12	CONDUIT	416.9	2.3995	0.0375
C10	J-BU14	J-BU12	CONDUIT	1053.5	6.0863	0.0187
C11	J-BU13	J-BU14	CONDUIT	665.0	9.6695	0.0730
C12	J-BU26	J-BU13	CONDUIT	1001.6	15.5601	0.0730
C13	J-BU09	J-BU10	CONDUIT	645.7	2.7888	0.0375
C14	J-BU15	J-BU09	CONDUIT	861.2	9.3299	0.0730
C15	J-BU25	J-BU15	CONDUIT	1460.5	15.0959	0.0730
C16	J-BU17	J-BU09	CONDUIT	1172.0	5.8121	0.0100
C17	J-BU07	J-BU09	CONDUIT	1283.8	4.9913	0.0730
C18	J-BU08	J-BU09	CONDUIT	1402.7	5.2830	0.0730
C19	J-BU18	J-BU17	CONDUIT	464.4	4.5261	0.0375
C20	J-BU19	J-BU18	CONDUIT	768.6	5.3420	0.0375
C21	J-BU16	J-BU17	CONDUIT	1093.8	5.6776	0.0730
C22	J-BU23	J-BU24	CONDUIT	9.9	20.6056	0.0730
C23	J-BU24	J-BU16	CONDUIT	669.4	8.9995	0.0730
C24	J-BU29	J-BU28	CONDUIT	15.0	13.4170	0.0730
C25	J-BU30	J-BU28	CONDUIT	13.1	7.6383	0.0730
C26	J-BU28	J-BU23	CONDUIT	1401.3	9.1726	0.0730
C27	J-BU27	J-BU28	CONDUIT	1350.6	18.3688	0.0730
C28	J-BU21	J-BU19	CONDUIT	592.1	4.7345	0.0187
C29	J-BU20	J-BU19	CONDUIT	1222.2	9.7004	0.0730
C30	J-BU22	J-BU21	CONDUIT	495.0	6.0714	0.0187
C32	J-BU33	J-BU32	CONDUIT	588.1	8.8762	0.0730
C33	J-BU32	J-BU31	CONDUIT	1005.0	7.5839	0.0730
C34	J-BU17	J-BU09	CONDUIT	1217.6	5.5934	0.0187
C35	J-BU31	J-31a	CONDUIT	1100.2	7.1989	0.0730
C36	J-31a	J-BU22	CONDUIT	1165.9	6.7916	0.0730

****
Cross Section Summary
****

Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
C1	channel-overflow2n	6.00	590.00	1.65	215.00	1	4462.26
C2	channel-overflow2n	6.00	590.00	1.65	215.00	1	5153.02
C3	channel-overflow2n	6.00	590.00	1.65	215.00	1	5155.94
C4	channel-overflow2n	6.00	590.00	1.65	215.00	1	6187.18
C5	channel-overflow2n	6.00	590.00	1.65	215.00	1	6094.12
C6	channel-overflow1a	6.00	548.00	1.40	208.00	1	2736.90
C7	channel-overflow2n	6.00	590.00	1.65	215.00	1	6836.84
C8	channel-overflow1a	6.00	548.00	1.40	208.00	1	3726.50
C9	channel-main1st	5.50	122.00	1.60	44.00	1	1024.68
C10	street-main	2.00	79.44	0.26	116.50	1	630.62
C11	channel-overflow1a	6.00	548.00	1.40	208.00	1	4338.38
C12	channel-overflow1a	6.00	548.00	1.40	208.00	1	5503.40
C13	channel-overflow2n	6.00	590.00	1.65	215.00	1	5448.34
C14	channel-main1a	5.50	122.00	1.60	44.00	1	1036.12
C15	channel-main1a	5.50	122.00	1.60	44.00	1	1317.96
C16	CIRCULAR	6.50	33.18	1.63	6.50	1	1643.12
C17	channel-main1a	5.50	122.00	1.60	44.00	1	757.84
C18	channel-overflow1a	6.00	548.00	1.40	208.00	1	3206.75
C19	channel-main3rd	5.50	166.00	2.46	52.00	1	2549.83
C20	channel-main2nd	5.50	144.00	2.08	48.00	1	2147.04
C21	channel-overflow1a	6.00	548.00	1.40	208.00	1	3324.35
C22	channel-overflow1a	6.00	548.00	1.40	208.00	1	6333.12
C23	channel-overflow1a	6.00	548.00	1.40	208.00	1	4185.37
C24	channel-main1a	5.50	122.00	1.60	44.00	1	1242.51
C25	channel-main1a	5.50	122.00	1.60	44.00	1	937.50
C26	channel-main1a	5.50	122.00	1.60	44.00	1	1027.35
C27	channel-main1a	5.50	122.00	1.60	44.00	1	1453.83
C28	street-main	2.00	79.44	0.26	116.50	1	556.19
C29	channel-main1a	5.50	122.00	1.60	44.00	1	1056.50
C30	street-main	2.00	79.44	0.26	116.50	1	629.84
C32	channel-overflow1a	6.00	548.00	1.40	208.00	1	4156.60
C33	channel-overflow1a	6.00	548.00	1.40	208.00	1	3842.12
C34	street-main	2.00	79.44	0.26	116.50	1	604.54
C35	channel-overflow1a	6.00	548.00	1.40	208.00	1	3743.33
C36	channel-overflow1a	6.00	548.00	1.40	208.00	1	3635.89

****
Transect Summary
****

Transect channel-main1st
Area:

0.0036	0.0072	0.0108	0.0144	0.0181
0.0225	0.0276	0.0336	0.0403	0.0479
0.0562	0.0653	0.0752	0.0860	0.0975
0.1098	0.1228	0.1367	0.1514	0.1669
0.1832	0.2002	0.2181	0.2367	0.2561
0.2764	0.2974	0.3192	0.3418	0.3652
0.3894	0.4144	0.4402	0.4668	0.4942
0.5223	0.5513	0.5811	0.6116	0.6430
0.6751	0.7080	0.7417	0.7762	0.8116
0.8477	0.8846	0.9222	0.9607	1.0000

Hrad:

0.0649	0.1233	0.1763	0.2244	0.2721
0.3133	0.3449	0.3701	0.3912	0.4097
0.4266	0.4424	0.4575	0.4722	0.4866
0.5009	0.5152	0.5294	0.5435	0.5577
0.5720	0.5863	0.6006	0.6149	0.6293
0.6438	0.6583	0.6728	0.6874	0.7020
0.7167	0.7314	0.7461	0.7608	0.7756
0.7904	0.8053	0.8201	0.8350	0.8499

0.8649	0.8798	0.8948	0.9098	0.9248
0.9398	0.9548	0.9699	0.9849	1.0000

Width:

0.0909	0.0909	0.0909	0.0909	0.1000
0.1200	0.1400	0.1600	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect channel-main2nd

Area:

0.0061	0.0122	0.0183	0.0244	0.0306
0.0374	0.0448	0.0529	0.0617	0.0711
0.0812	0.0920	0.1035	0.1156	0.1284
0.1419	0.1560	0.1708	0.1863	0.2025
0.2193	0.2368	0.2550	0.2739	0.2934
0.3136	0.3345	0.3560	0.3782	0.4011
0.4247	0.4489	0.4738	0.4994	0.5256
0.5525	0.5801	0.6084	0.6373	0.6669
0.6972	0.7282	0.7598	0.7921	0.8251
0.8587	0.8930	0.9280	0.9637	1.0000

Hrad:

0.0513	0.1000	0.1462	0.1901	0.2337
0.2746	0.3105	0.3427	0.3717	0.3983
0.4229	0.4458	0.4673	0.4876	0.5070
0.5256	0.5434	0.5607	0.5774	0.5937
0.6095	0.6251	0.6403	0.6552	0.6699
0.6844	0.6987	0.7128	0.7267	0.7406
0.7542	0.7678	0.7813	0.7946	0.8079
0.8211	0.8342	0.8473	0.8603	0.8732
0.8861	0.8989	0.9116	0.9244	0.9371
0.9497	0.9623	0.9749	0.9875	1.0000

Width:

0.1667	0.1667	0.1667	0.1667	0.1750
0.1933	0.2117	0.2300	0.2483	0.2667
0.2850	0.3033	0.3217	0.3400	0.3583
0.3767	0.3950	0.4133	0.4317	0.4500
0.4683	0.4867	0.5050	0.5233	0.5417
0.5600	0.5783	0.5967	0.6150	0.6333
0.6517	0.6700	0.6883	0.7067	0.7250
0.7433	0.7617	0.7800	0.7983	0.8167
0.8350	0.8533	0.8717	0.8900	0.9083
0.9267	0.9450	0.9633	0.9817	1.0000

Transect channel-main3rd

Area:

0.0080	0.0159	0.0239	0.0318	0.0398
0.0483	0.0574	0.0671	0.0774	0.0882
0.0996	0.1116	0.1242	0.1374	0.1511
0.1655	0.1804	0.1959	0.2120	0.2287
0.2459	0.2638	0.2822	0.3012	0.3208
0.3410	0.3617	0.3830	0.4050	0.4275
0.4506	0.4742	0.4985	0.5233	0.5487
0.5747	0.6013	0.6285	0.6562	0.6846
0.7135	0.7430	0.7731	0.8037	0.8350
0.8668	0.8993	0.9323	0.9658	1.0000

Hrad:

0.0437	0.0859	0.1267	0.1660	0.2052
0.2427	0.2773	0.3093	0.3392	0.3672
0.3936	0.4186	0.4424	0.4650	0.4867
0.5075	0.5275	0.5469	0.5656	0.5837
0.6013	0.6184	0.6351	0.6514	0.6673
0.6829	0.6982	0.7132	0.7279	0.7424
0.7567	0.7707	0.7846	0.7983	0.8118
0.8252	0.8384	0.8514	0.8644	0.8772
0.8899	0.9025	0.9150	0.9274	0.9397
0.9519	0.9640	0.9761	0.9881	1.0000

Width:

0.2308	0.2308	0.2308	0.2308	0.2385
0.2554	0.2723	0.2892	0.3062	0.3231
0.3400	0.3569	0.3738	0.3908	0.4077
0.4246	0.4415	0.4585	0.4754	0.4923
0.5092	0.5262	0.5431	0.5600	0.5769
0.5938	0.6108	0.6277	0.6446	0.6615
0.6785	0.6954	0.7123	0.7292	0.7462
0.7631	0.7800	0.7969	0.8138	0.8308
0.8477	0.8646	0.8815	0.8985	0.9154
0.9323	0.9492	0.9662	0.9831	1.0000

Transect channel-overflow1s

Area:

0.0018	0.0035	0.0053	0.0070	0.0088
0.0105	0.0123	0.0140	0.0160	0.0190
0.0230	0.0281	0.0342	0.0414	0.0496
0.0589	0.0693	0.0806	0.0931	0.1066
0.1211	0.1367	0.1533	0.1710	0.1898
0.2096	0.2304	0.2523	0.2753	0.2993
0.3243	0.3504	0.3776	0.4058	0.4350
0.4653	0.4967	0.5291	0.5626	0.5971
0.6326	0.6693	0.7069	0.7456	0.7854
0.8262	0.8681	0.9110	0.9550	1.0000

Hrad:

0.0827	0.1607	0.2344	0.3042	0.3703
0.4331	0.4927	0.5495	0.6009	0.6143
0.6032	0.5833	0.5633	0.5469	0.5350
0.5276	0.5242	0.5241	0.5269	0.5320
0.5390	0.5476	0.5576	0.5687	0.5807
0.5936	0.6072	0.6213	0.6360	0.6511
0.6667	0.6825	0.6987	0.7152	0.7319
0.7488	0.7659	0.7832	0.8007	0.8183
0.8360	0.8539	0.8718	0.8899	0.9080
0.9263	0.9446	0.9630	0.9815	1.0000

Width:

0.0385	0.0385	0.0385	0.0385	0.0385
0.0385	0.0385	0.0385	0.0538	0.0769
0.1000	0.1231	0.1462	0.1692	0.1923
0.2154	0.2385	0.2615	0.2846	0.3077
0.3308	0.3538	0.3769	0.4000	0.4231
0.4462	0.4692	0.4923	0.5154	0.5385
0.5615	0.5846	0.6077	0.6308	0.6538
0.6769	0.7000	0.7231	0.7462	0.7692
0.7923	0.8154	0.8385	0.8615	0.8846
0.9077	0.9308	0.9538	0.9769	1.0000

Transect channel-overflow2n

Area:

0.0031	0.0061	0.0092	0.0122	0.0153
0.0183	0.0214	0.0244	0.0277	0.0319
0.0370	0.0432	0.0503	0.0584	0.0675
0.0775	0.0885	0.1005	0.1135	0.1275
0.1424	0.1583	0.1752	0.1930	0.2119

0.2317	0.2525	0.2742	0.2970	0.3207
0.3454	0.3710	0.3977	0.4253	0.4539
0.4835	0.5140	0.5455	0.5780	0.6115
0.6460	0.6814	0.7178	0.7552	0.7936
0.8329	0.8732	0.9145	0.9568	1.0000

Hrad:

0.0714	0.1405	0.2075	0.2726	0.3357
0.3969	0.4564	0.5142	0.5695	0.6043
0.6222	0.6297	0.6317	0.6311	0.6299
0.6291	0.6292	0.6306	0.6332	0.6369
0.6419	0.6479	0.6548	0.6626	0.6711
0.6804	0.6902	0.7007	0.7116	0.7229
0.7346	0.7467	0.7592	0.7719	0.7849
0.7981	0.8115	0.8252	0.8390	0.8530
0.8672	0.8815	0.8959	0.9105	0.9252
0.9400	0.9548	0.9698	0.9849	1.0000

Width:

0.0698	0.0698	0.0698	0.0698	0.0698
0.0698	0.0698	0.0698	0.0847	0.1070
0.1293	0.1516	0.1740	0.1963	0.2186
0.2409	0.2633	0.2856	0.3079	0.3302
0.3526	0.3749	0.3972	0.4195	0.4419
0.4642	0.4865	0.5088	0.5312	0.5535
0.5758	0.5981	0.6205	0.6428	0.6651
0.6874	0.7098	0.7321	0.7544	0.7767
0.7991	0.8214	0.8437	0.8660	0.8884
0.9107	0.9330	0.9553	0.9777	1.0000

Transect channel-overflow3r

Area:

0.0065	0.0130	0.0195	0.0259	0.0324
0.0389	0.0454	0.0519	0.0586	0.0659
0.0741	0.0831	0.0928	0.1033	0.1146
0.1267	0.1395	0.1531	0.1675	0.1827
0.1987	0.2154	0.2329	0.2512	0.2703
0.2901	0.3107	0.3322	0.3543	0.3773
0.4010	0.4256	0.4509	0.4769	0.5038
0.5314	0.5598	0.5890	0.6190	0.6497
0.6813	0.7136	0.7466	0.7805	0.8151
0.8506	0.8867	0.9237	0.9615	1.0000

Hrad:

0.0501	0.0996	0.1486	0.1969	0.2447
0.2920	0.3387	0.3848	0.4303	0.4697
0.5032	0.5319	0.5568	0.5786	0.5979
0.6154	0.6313	0.6461	0.6599	0.6730
0.6855	0.6976	0.7093	0.7207	0.7319
0.7430	0.7539	0.7647	0.7754	0.7861
0.7967	0.8074	0.8180	0.8286	0.8392
0.8498	0.8604	0.8710	0.8816	0.8923
0.9030	0.9137	0.9244	0.9351	0.9459
0.9567	0.9675	0.9783	0.9891	1.0000

Width:

0.1667	0.1667	0.1667	0.1667	0.1667
0.1667	0.1667	0.1667	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect street-main

Area:

0.0001	0.0005	0.0011	0.0019	0.0030
0.0044	0.0059	0.0077	0.0098	0.0121
0.0146	0.0174	0.0204	0.0237	0.0272
0.0309	0.0349	0.0392	0.0436	0.0483
0.0533	0.0585	0.0639	0.0696	0.0755
0.0834	0.0948	0.1098	0.1284	0.1506
0.1763	0.2051	0.2356	0.2677	0.3013
0.3366	0.3735	0.4121	0.4522	0.4939
0.5373	0.5823	0.6288	0.6770	0.7268
0.7782	0.8313	0.8859	0.9421	1.0000

Hrad:

0.0120	0.0240	0.0360	0.0480	0.0600
0.0720	0.0840	0.0960	0.1080	0.1200
0.1320	0.1440	0.1560	0.1680	0.1800
0.1920	0.2040	0.2160	0.2280	0.2400
0.2520	0.2641	0.2761	0.2881	0.3001
0.2586	0.2358	0.2281	0.2323	0.2455
0.2656	0.3012	0.3438	0.3882	0.4333
0.4782	0.5226	0.5660	0.6084	0.6496
0.6896	0.7285	0.7661	0.8026	0.8380
0.8723	0.9057	0.9380	0.9694	1.0000

Width:

0.0041	0.0082	0.0124	0.0165	0.0206
0.0247	0.0288	0.0330	0.0371	0.0412
0.0453	0.0494	0.0536	0.0577	0.0618
0.0659	0.0700	0.0742	0.0783	0.0824
0.0865	0.0906	0.0948	0.0989	0.1030
0.1641	0.2252	0.2864	0.3475	0.4086
0.4697	0.5056	0.5330	0.5605	0.5880
0.6155	0.6429	0.6704	0.6979	0.7253
0.7528	0.7803	0.8077	0.8352	0.8627
0.8901	0.9176	0.9451	0.9725	1.0000

Transect street-overflow

Area:

0.0010	0.0024	0.0042	0.0063	0.0088
0.0116	0.0148	0.0183	0.0222	0.0265
0.0311	0.0361	0.0414	0.0471	0.0531
0.0596	0.0663	0.0734	0.0809	0.0888
0.0970	0.1055	0.1145	0.1237	0.1334
0.1434	0.1537	0.1644	0.1759	0.1909
0.2100	0.2334	0.2609	0.2926	0.3277
0.3642	0.4018	0.4407	0.4807	0.5220
0.5644	0.6080	0.6528	0.6988	0.7460
0.7944	0.8440	0.8948	0.9468	1.0000

Hrad:

0.0198	0.0355	0.0496	0.0627	0.0753
0.0875	0.0995	0.1114	0.1231	0.1348
0.1464	0.1579	0.1694	0.1808	0.1922
0.2036	0.2150	0.2264	0.2377	0.2490
0.2603	0.2716	0.2829	0.2942	0.3055
0.3168	0.3280	0.3393	0.3400	0.3274
0.3191	0.3172	0.3219	0.3329	0.3581
0.3925	0.4311	0.4724	0.5156	0.5599
0.6049	0.6501	0.6953	0.7404	0.7851
0.8293	0.8729	0.9160	0.9583	1.0000

Width:

0.0225	0.0292	0.0359	0.0425	0.0492
0.0559	0.0625	0.0692	0.0759	0.0825
0.0892	0.0959	0.1025	0.1092	0.1159
0.1225	0.1292	0.1359	0.1425	0.1492

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          0.1559    0.1625    0.1692    0.1759    0.1825
          0.1892    0.1959    0.2025    0.2397    0.3175
          0.3952    0.4730    0.5508    0.6286    0.6667
          0.6889    0.7111    0.7333    0.7556    0.7778
          0.8000    0.8222    0.8444    0.8667    0.8889
          0.9111    0.9333    0.9556    0.9778    1.0000

Transect largeriver
Area:
          0.0049    0.0097    0.0146    0.0194    0.0243
          0.0291    0.0340    0.0388    0.0437    0.0485
          0.0535    0.0588    0.0644    0.0703    0.0765
          0.0829    0.0897    0.0967    0.1040    0.1117
          0.1204    0.1311    0.1437    0.1583    0.1748
          0.1932    0.2136    0.2359    0.2602    0.2864
          0.3146    0.3447    0.3767    0.4107    0.4466
          0.4835    0.5204    0.5573    0.5942    0.6311
          0.6680    0.7049    0.7417    0.7786    0.8155
          0.8524    0.8893    0.9262    0.9631    1.0000
Hrad:
          0.0621    0.1218    0.1792    0.2345    0.2878
          0.3392    0.3888    0.4367    0.4829    0.5276
          0.5782    0.6249    0.6681    0.7083    0.7458
          0.7810    0.8140    0.8452    0.8747    0.9028
          0.9102    0.9083    0.8978    0.8815    0.8620
          0.8413    0.8209    0.8017    0.7841    0.7686
          0.7551    0.7436    0.7341    0.7265    0.7205
          0.7291    0.7407    0.7546    0.7704    0.7877
          0.8061    0.8255    0.8457    0.8665    0.8879
          0.9097    0.9318    0.9543    0.9771    1.0000
Width:
          0.1316    0.1316    0.1316    0.1316    0.1316
          0.1316    0.1316    0.1316    0.1316    0.1316
          0.1395    0.1474    0.1553    0.1632    0.1711
          0.1789    0.1868    0.1947    0.2026    0.2105
          0.2632    0.3158    0.3684    0.4211    0.4737
          0.5263    0.5789    0.6316    0.6842    0.7368
          0.7895    0.8421    0.8947    0.9474    1.0000
          1.0000    1.0000    1.0000    1.0000    1.0000
          1.0000    1.0000    1.0000    1.0000    1.0000
          1.0000    1.0000    1.0000    1.0000    1.0000

Transect channel-main1a
Area:
          0.0036    0.0072    0.0108    0.0144    0.0181
          0.0225    0.0276    0.0336    0.0403    0.0479
          0.0562    0.0653    0.0752    0.0860    0.0975
          0.1098    0.1228    0.1367    0.1514    0.1669
          0.1832    0.2002    0.2181    0.2367    0.2561
          0.2764    0.2974    0.3192    0.3418    0.3652
          0.3894    0.4144    0.4402    0.4668    0.4942
          0.5223    0.5513    0.5811    0.6116    0.6430
          0.6751    0.7080    0.7417    0.7762    0.8116
          0.8477    0.8846    0.9222    0.9607    1.0000
Hrad:
          0.0651    0.1237    0.1767    0.2250    0.2728
          0.3142    0.3458    0.3710    0.3921    0.4107
          0.4275    0.4433    0.4584    0.4731    0.4875
          0.5018    0.5160    0.5302    0.5443    0.5585
          0.5727    0.5869    0.6012    0.6156    0.6300
          0.6444    0.6588    0.6734    0.6879    0.7025
          0.7171    0.7318    0.7465    0.7612    0.7760
          0.7908    0.8056    0.8204    0.8353    0.8502
          0.8651    0.8800    0.8949    0.9099    0.9249
          0.9399    0.9549    0.9699    0.9849    1.0000
Width:
          0.0909    0.0909    0.0909    0.0909    0.1000
          0.1200    0.1400    0.1600    0.1800    0.2000
          0.2200    0.2400    0.2600    0.2800    0.3000
          0.3200    0.3400    0.3600    0.3800    0.4000
          0.4200    0.4400    0.4600    0.4800    0.5000
          0.5200    0.5400    0.5600    0.5800    0.6000
          0.6200    0.6400    0.6600    0.6800    0.7000
          0.7200    0.7400    0.7600    0.7800    0.8000
          0.8200    0.8400    0.8600    0.8800    0.9000
          0.9200    0.9400    0.9600    0.9800    1.0000

Transect channel-overflow1a
Area:
          0.0018    0.0035    0.0053    0.0070    0.0088
          0.0105    0.0123    0.0140    0.0160    0.0190
          0.0230    0.0281    0.0342    0.0414    0.0496
          0.0589    0.0693    0.0806    0.0931    0.1066
          0.1211    0.1367    0.1533    0.1710    0.1898
          0.2096    0.2304    0.2523    0.2753    0.2993
          0.3243    0.3504    0.3776    0.4058    0.4350
          0.4653    0.4967    0.5291    0.5626    0.5971
          0.6326    0.6693    0.7069    0.7456    0.7854
          0.8262    0.8681    0.9110    0.9550    1.0000
Hrad:
          0.0830    0.1612    0.2352    0.3052    0.3715
          0.4345    0.4943    0.5513    0.6028    0.6163
          0.6051    0.5851    0.5650    0.5484    0.5363
          0.5288    0.5253    0.5252    0.5278    0.5329
          0.5398    0.5484    0.5583    0.5694    0.5814
          0.5942    0.6077    0.6219    0.6365    0.6516
          0.6671    0.6830    0.6991    0.7155    0.7322
          0.7491    0.7662    0.7835    0.8009    0.8185
          0.8362    0.8540    0.8720    0.8900    0.9082
          0.9264    0.9447    0.9631    0.9815    1.0000
Width:
          0.0385    0.0385    0.0385    0.0385    0.0385
          0.0385    0.0385    0.0385    0.0538    0.0769
          0.1000    0.1231    0.1462    0.1692    0.1923
          0.2154    0.2385    0.2615    0.2846    0.3077
          0.3308    0.3538    0.3769    0.4000    0.4231
          0.4462    0.4692    0.4923    0.5154    0.5385
          0.5615    0.5846    0.6077    0.6308    0.6538
          0.6769    0.7000    0.7231    0.7462    0.7692
          0.7923    0.8154    0.8385    0.8615    0.8846
          0.9077    0.9308    0.9538    0.9769    1.0000


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......       363.615         1.688
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........       287.614         1.335
Surface Runoff ...........        73.997         0.343
Final Surface Storage ....         2.806         0.013
Continuity Error (%) .....        -0.221


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      10^6 gal
```

```
*************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......        73.997        24.113
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........        74.055        24.132
Internal Outflow .........         0.000         0.000
Storage Losses ...........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         0.013         0.004
Continuity Error (%) .....        -0.097


*******************************
Highest Flow Instability Indexes
*******************************
Link C30 (4)
Link C25 (4)
Link C24 (4)
Link C32 (4)
Link C33 (4)


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :   300.00 sec
Average Time Step           :   300.00 sec
Maximum Time Step           :   300.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.09


  ***************************
  Subcatchment Runoff Summary
  ***************************

  ---------------------------------------------------------------------------------------------
----------
                          Total      Total      Total      Total      Total      Total
Peak  Runoff
                         Precip      Runon       Evap      Infil     Runoff     Runoff
Runoff   Coeff
  Subcatchment              in         in         in         in         in    10^6 gal
CFS
  ---------------------------------------------------------------------------------------------
----------
  BU19                    1.69       0.00       0.00       0.80       0.86       0.52
44.23   0.510
  BU29                    1.69       0.00       0.00       1.39       0.29       1.24
57.29   0.174
  BU31                    1.69       0.00       0.00       0.92       0.75       0.60
49.01   0.442
  BU08                    1.69       0.00       0.00       0.22       1.40       0.41
38.92   0.832
  BU30                    1.69       0.00       0.00       0.90       0.77       0.36
28.99   0.454
  BU24                    1.69       0.00       0.00       1.38       0.31       0.19
12.14   0.183
  BU23                    1.69       0.00       0.00       1.05       0.62       0.37
25.87   0.368
  BU16                    1.69       0.00       0.00       0.99       0.68       0.50
36.98   0.403
  BU14                    1.69       0.00       0.00       0.73       0.92       0.85
73.39   0.545
  BU17                    1.69       0.00       0.00       0.58       1.06       0.54
48.65   0.629
  BU20                    1.69       0.00       0.00       0.79       0.87       0.76
65.28   0.515
  BU21                    1.69       0.00       0.00       0.97       0.70       0.32
25.08   0.414
  BU25                    1.69       0.00       0.00       1.38       0.31       0.35
19.58   0.182
  BU26                    1.69       0.00       0.00       1.15       0.53       0.46
28.14   0.311
  BU27                    1.69       0.00       0.00       1.51       0.17       1.14
51.82   0.103
  BU15                    1.69       0.00       0.00       0.81       0.84       0.83
70.26   0.500
  BU06                    1.69       0.00       0.00       0.20       1.42       0.73
65.94   0.843
  BU01                    1.69       0.00       0.00       0.34       1.29       0.21
19.34   0.767
  BU04                    1.69       0.00       0.00       0.30       1.33       0.80
73.34   0.789
  BU13                    1.69       0.00       0.00       0.83       0.83       0.48
39.61   0.490
  BU12                    1.69       0.00       0.00       0.42       1.22       0.94
87.33   0.721
  BU10                    1.69       0.00       0.00       0.46       1.18       1.05
97.39   0.699
  BU18                    1.69       0.00       0.00       0.37       1.26       0.42
39.60   0.749
  BU22                    1.69       0.00       0.00       1.05       0.62       0.68
52.08   0.365
  BU28                    1.69       0.00       0.00       1.39       0.30       0.19
10.83   0.176
  BU03                    1.69       0.00       0.00       0.21       1.42       0.17
16.39   0.841
  BU09                    1.69       0.00       0.00       0.85       0.81       0.94
80.07   0.479
  BU07                    1.69       0.00       0.00       0.28       1.35       0.30
28.90   0.798
  BU05                    1.69       0.00       0.00       0.27       1.36       0.24
23.32   0.807
  BU11                    1.69       0.00       0.00       0.41       1.23       0.43
40.35   0.726
  BU33                    1.69       0.00       0.00       1.53       0.15       6.25
267.06   0.090
  BU32                    1.69       0.00       0.00       0.99       0.68       0.41
31.67   0.401
  BU02                    1.69       0.00       0.00       0.31       1.32       0.45
42.67   0.782


  ******************
  Node Depth Summary
  ******************

  ---------------------------------------------------------------------
                                   Average  Maximum  Maximum  Time of Max
                                     Depth    Depth      HGL   Occurrence
  Node                 Type          Feet     Feet     Feet  days hr:min
  ---------------------------------------------------------------------
```

J-BU31	JUNCTION	0.15	2.48	7224.48	0	00:40
J-BU32	JUNCTION	0.14	2.41	7300.41	0	00:40
J-BU33	JUNCTION	0.13	2.32	7352.32	0	00:35
J-BU29	JUNCTION	0.07	1.45	7199.45	0	00:50
J-BU28	JUNCTION	0.11	2.29	7198.29	0	00:50
J-BU22	JUNCTION	0.20	2.46	7066.46	0	00:50
J-BU23	JUNCTION	0.12	2.28	7070.28	0	00:55
J-BU24	JUNCTION	0.10	1.86	7067.86	0	00:55
J-BU16	JUNCTION	0.12	2.13	7008.13	0	00:45
J-BU25	JUNCTION	0.03	0.81	7174.81	0	00:50
J-BU10	JUNCTION	0.16	2.58	6860.58	0	00:45
J-BU09	JUNCTION	10.02	11.13	6887.13	0	01:00
J-BU11	JUNCTION	0.04	1.34	6851.34	0	00:35
J-BU12	JUNCTION	0.13	2.51	6842.51	0	00:35
J-BU13	JUNCTION	0.05	1.22	6969.22	0	00:35
J-BU26	JUNCTION	0.03	0.65	7122.65	0	00:35
J-BU18	JUNCTION	0.14	2.33	6967.33	0	00:55
J-BU19	JUNCTION	0.18	2.32	7008.32	0	00:55
J-BU20	JUNCTION	0.06	1.67	7125.67	0	00:35
J-BU30	JUNCTION	0.04	1.19	7198.19	0	00:35
J-BU27	JUNCTION	0.06	1.28	7441.28	0	00:55
J-BU03	JUNCTION	0.11	2.44	6804.44	0	00:45
J-BU02	JUNCTION	0.21	3.35	6785.35	0	00:45
J-BU04	JUNCTION	0.18	2.87	6806.87	0	00:45
J-BU05	JUNCTION	0.16	2.61	6840.61	0	00:45
J-BU06	JUNCTION	0.05	1.38	6889.38	0	00:35
J-BU15	JUNCTION	0.07	1.82	6957.82	0	00:35
J-BU14	JUNCTION	0.11	1.43	6905.43	0	00:35
J-BU08	JUNCTION	0.04	1.12	6951.12	0	00:35
J-BU07	JUNCTION	0.04	1.32	6941.32	0	00:35
J-BU21	JUNCTION	0.18	1.73	7035.73	0	00:50
J1	JUNCTION	0.16	2.63	6817.63	0	00:45
J-31a	JUNCTION	0.14	2.49	7145.49	0	00:45
J-BU01	OUTFALL	0.21	3.34	6771.34	0	00:50
J-BU17	DIVIDER	10.01	11.18	6955.18	0	00:55

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days	hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal
J-BU31	JUNCTION	49.01	286.13	0	00:40	0.603	7.259
J-BU32	JUNCTION	31.67	271.73	0	00:40	0.406	6.654
J-BU33	JUNCTION	267.06	267.06	0	00:35	6.248	6.248
J-BU29	JUNCTION	57.29	57.29	0	00:50	1.239	1.239
J-BU28	JUNCTION	10.83	126.39	0	00:50	0.187	2.923
J-BU22	JUNCTION	52.08	295.86	0	00:50	0.678	7.939
J-BU23	JUNCTION	25.87	138.46	0	00:55	0.371	3.295
J-BU24	JUNCTION	12.14	148.74	0	00:55	0.193	3.489
J-BU16	JUNCTION	36.98	165.90	0	00:45	0.495	3.985
J-BU25	JUNCTION	19.58	19.58	0	00:50	0.351	0.351
J-BU10	JUNCTION	97.39	654.21	0	00:45	1.050	18.372
J-BU09	JUNCTION	80.07	606.55	0	00:40	0.943	17.322
J-BU11	JUNCTION	40.35	40.35	0	00:35	0.430	0.430
J-BU12	JUNCTION	87.33	216.40	0	00:35	0.937	3.161
J-BU13	JUNCTION	39.61	61.89	0	00:35	0.483	0.940
J-BU26	JUNCTION	28.14	28.14	0	00:35	0.455	0.455
J-BU18	JUNCTION	39.60	354.18	0	00:55	0.419	9.966
J-BU19	JUNCTION	44.23	340.69	0	00:55	0.522	9.547
J-BU20	JUNCTION	65.28	65.28	0	00:35	0.762	0.762
J-BU30	JUNCTION	28.99	28.99	0	00:35	0.355	0.355
J-BU27	JUNCTION	51.82	51.82	0	00:55	1.142	1.142
J-BU03	JUNCTION	16.39	209.34	0	00:40	0.171	3.333
J-BU02	JUNCTION	42.67	956.49	0	00:45	0.448	23.924
J-BU04	JUNCTION	73.34	746.92	0	00:45	0.795	20.140
J-BU05	JUNCTION	23.32	702.18	0	00:45	0.244	19.344
J-BU06	JUNCTION	65.94	65.94	0	00:35	0.726	0.726
J-BU15	JUNCTION	70.26	77.44	0	00:35	0.828	1.179
J-BU14	JUNCTION	73.39	125.92	0	00:35	0.853	1.794
J-BU08	JUNCTION	38.92	38.92	0	00:35	0.407	0.407
J-BU07	JUNCTION	28.90	28.90	0	00:35	0.301	0.301
J-BU21	JUNCTION	25.08	304.41	0	00:50	0.324	8.263
J1	JUNCTION	0.00	714.26	0	00:45	0.000	19.344
J-31a	JUNCTION	0.00	280.25	0	00:45	0.000	7.259
J-BU01	OUTFALL	19.34	954.80	0	00:50	0.206	24.130
J-BU17	DIVIDER	48.65	532.88	0	00:55	0.539	14.492

****
Node Surcharge Summary
****

No nodes were surcharged.

****
Node Flooding Summary
****

No nodes were flooded.

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume 10^6 gal
J-BU01	56.75	65.57	954.80	24.130
System	56.75	65.57	954.80	24.130

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days	hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
C1	CHANNEL	948.87	0	00:50	6.02	0.21	0.55
C2	CHANNEL	729.15	0	00:50	6.75	0.14	0.47
C3	CHANNEL	213.32	0	00:45	6.78	0.04	0.27
C4	CHANNEL	716.07	0	00:45	7.85	0.12	0.44
C5	CHANNEL	714.26	0	00:45	7.85	0.12	0.44

C6	CHANNEL	199.43	0	00:45	4.13	0.07	0.41
C7	CHANNEL	658.74	0	00:45	8.69	0.10	0.40
C8	CHANNEL	58.38	0	00:40	5.59	0.02	0.22
C9	CHANNEL	35.12	0	00:35	5.21	0.03	0.24
C10	CHANNEL	123.75	0	00:40	4.90	0.20	0.71
C11	CHANNEL	61.80	0	00:40	5.93	0.01	0.20
C12	CHANNEL	28.77	0	00:40	5.56	0.01	0.11
C13	CHANNEL	614.23	0	00:45	7.04	0.11	0.43
C14	CHANNEL	71.54	0	00:40	5.77	0.07	0.31
C15	CHANNEL	19.47	0	00:50	5.54	0.01	0.15
C16	CONDUIT	500.75	0	00:55	43.48	0.30	0.38
C17	CHANNEL	24.86	0	00:40	4.18	0.03	0.21
C18	CHANNEL	34.29	0	00:40	4.54	0.01	0.16
C19	CHANNEL	354.57	0	00:55	10.41	0.14	0.37
C20	CHANNEL	344.68	0	00:55	10.80	0.16	0.42
C21	CHANNEL	164.87	0	00:55	5.27	0.05	0.35
C22	CHANNEL	138.48	0	00:55	8.33	0.02	0.25
C23	CHANNEL	148.55	0	00:55	5.89	0.04	0.31
C24	CHANNEL	57.31	0	00:50	6.08	0.05	0.26
C25	CHANNEL	28.84	0	00:35	4.33	0.03	0.22
C26	CHANNEL	126.11	0	00:55	6.03	0.12	0.41
C27	CHANNEL	51.11	0	01:00	7.20	0.04	0.23
C28	CHANNEL	302.70	0	00:55	5.96	0.54	0.86
C29	CHANNEL	57.92	0	00:40	5.97	0.05	0.28
C30	CHANNEL	292.56	0	00:50	6.39	0.46	0.84
C32	CHANNEL	249.43	0	00:40	5.79	0.06	0.37
C33	CHANNEL	253.85	0	00:45	5.70	0.07	0.40
C34	CHANNEL	24.59	0	01:00	11.15	0.04	0.50
C35	CHANNEL	280.25	0	00:45	5.75	0.07	0.41
C36	CHANNEL	272.25	0	00:50	5.66	0.07	0.41

****
Conduit Surcharge Summary
****

No conduits were surcharged.

Analysis begun on: Thu Dec 13 12:32:25 2012
Analysis ended on: Thu Dec 13 12:32:25 2012
Total elapsed time: < 1 sec

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.022)

Butcherknife Creek Basin - Future Conditions
UDFCD gauge 100 year 2 hr

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... KINWAVE
Starting Date JUL-28-2012 00:00:00
Ending Date JUL-30-2012 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 300.00 sec

WARNING 04: minimum elevation drop used for Conduit C3

****
Element Count
****
Number of rain gages 2
Number of subcatchments ... 23
Number of nodes 26
Number of links 26
Number of pollutants 0
Number of land uses 0

****
Raingage Summary
****

Name	Data Source	Data Type	Recording Interval
rg100	SCS_24h_Type_II_2.8in	INTENSITY	15 min.
UDFCD100	UDFCD100	VOLUME	5 min.

****
Subcatchment Summary
****

Name	Area	Width	%Imperv	%Slope	Rain Gage	Outlet
BK01	3.47	989.25	97.20	2.4261	UDFCD100	J-BK01
BK02	1.56	406.31	96.90	4.4301	UDFCD100	J-BK02
BK03	3.38	760.70	94.20	1.7090	UDFCD100	J-BK03
BK10	6.46	1644.69	65.10	1.1370	UDFCD100	J-BK10
BK04	0.66	574.95	95.90	0.8870	UDFCD100	J-BK04
BK08	3.27	729.41	79.30	2.4129	UDFCD100	J-BK08
BK05	3.19	1404.29	81.40	1.5381	UDFCD100	J-BK05
BK16	4.95	1735.10	61.70	1.7982	UDFCD100	J-BK16
BK18	5.71	1136.05	52.20	12.6755	UDFCD100	J-BK18
BK15	6.57	1988.10	61.80	1.7102	UDFCD100	J-BK15
BK17	4.13	991.14	62.90	12.4301	UDFCD100	J-BK17
BK09	4.38	1137.28	66.90	7.3860	UDFCD100	J-BK09
BK12	3.20	1220.19	65.60	9.4739	UDFCD100	J-BK12
BK11	4.52	1047.51	62.30	1.8616	UDFCD100	J-BK11
BK13	3.39	977.55	53.80	7.9791	UDFCD100	J-BK13
BK14	3.89	831.80	64.90	1.4547	UDFCD100	J-BK14
BK23	1484.79	33049.20	5.00	8.7385	UDFCD100	J-BK23
BK22	264.54	11534.30	4.70	13.5942	UDFCD100	J-BK22
BK19	5.02	1179.29	21.20	13.0078	UDFCD100	J-BK19
BK21	427.79	12339.60	10.40	6.0585	UDFCD100	J-BK21
BK06	1.58	733.02	73.70	2.0736	UDFCD100	J-BK06
BK07	0.24	225.98	94.50	2.2568	UDFCD100	J-BK07
BK20	3.73	1451.79	25.80	11.3791	UDFCD100	J-BK20

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Node Summary
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Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
J-BK23	JUNCTION	6880.00	5.50	0.0	
J-BK22	JUNCTION	6880.00	5.50	0.0	
J-BK21	JUNCTION	6786.00	6.00	0.0	
J-BK19	JUNCTION	6772.00	6.00	0.0	
J-BK18	JUNCTION	6762.00	5.50	0.0	
J-BK17	JUNCTION	6763.00	0.00	0.0	
J-BK13	JUNCTION	6753.00	0.00	0.0	
J-BK16	JUNCTION	6752.00	7.00	0.0	
J-BK15	JUNCTION	6750.00	7.00	0.0	
J-BK12	JUNCTION	6742.00	5.50	0.0	
J-BK11	JUNCTION	6743.00	7.00	0.0	
J-BK10	JUNCTION	6734.00	7.00	0.0	
J-BK09	JUNCTION	6736.00	5.50	0.0	
J-BK08	JUNCTION	6735.00	7.00	0.0	
J-BK05	JUNCTION	6728.00	7.00	0.0	
J-BK06	JUNCTION	6728.00	7.00	0.0	
J-BK04	JUNCTION	6723.00	7.00	0.0	
J-BK02	JUNCTION	6708.00	7.00	0.0	
J-BK14	JUNCTION	6752.00	5.50	0.0	
J-BK20	JUNCTION	6773.00	0.00	0.0	
J-BK07	JUNCTION	6734.00	7.00	0.0	
J1	JUNCTION	6830.00	5.50	0.0	
J2	JUNCTION	6808.00	5.50	0.0	
J-BK01	JUNCTION	6706.00	6.00	0.0	
OF1	OUTFALL	6706.00	7.00	0.0	
J-BK03	DIVIDER	6724.00	7.00	0.0	

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Link Summary

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Name	From Node	To Node	Type	Length	%Slope	Roughness
C1	J-BK22	J1	CONDUIT	1594.3	3.1376	0.0730
C2	J-BK23	J1	CONDUIT	1651.9	3.0283	0.0730
C4	J-BK21	J-BK19	CONDUIT	797.1	1.7565	0.0730
C5	J-BK20	J-BK19	CONDUIT	13.8	7.2814	0.0100
C6	J-BK19	J-BK18	CONDUIT	648.8	1.5415	0.0375
C7	J-BK17	J-BK18	CONDUIT	26.7	3.7451	0.0100
C8	J-BK18	J-BK14	CONDUIT	667.6	1.4980	0.0375
C9	J-BK13	J-BK14	CONDUIT	10.4	9.6884	0.0100
C10	J-BK14	J-BK12	CONDUIT	481.5	2.0774	0.0375
C11	J-BK11	J-BK12	CONDUIT	20.9	4.7856	0.0100
C12	J-BK12	J-BK09	CONDUIT	435.2	1.3788	0.0375
C13	J-BK10	J-BK05	CONDUIT	367.9	1.6311	0.0187
C14	J-BK09	J-BK06	CONDUIT	503.2	1.5899	0.0375
C15	J-BK07	J-BK06	CONDUIT	166.4	3.6090	0.0187
C16	J-BK08	J-BK07	CONDUIT	56.1	1.7825	0.0187
C17	J-BK05	J-BK03	CONDUIT	273.4	1.4632	0.0187
C18	J-BK04	J-BK02	CONDUIT	397.6	3.7748	0.0187
C19	J-BK06	J-BK03	CONDUIT	258.9	1.5454	0.0375
C20	J-BK03	J-BK01	CONDUIT	647.2	2.7823	0.0310
C21	J-BK03	J-BK01	CONDUIT	620.1	2.9039	0.0187
C22	J-BK02	OF1	CONDUIT	265.6	0.7529	0.0187
C23	J-BK16	J-BK15	CONDUIT	308.1	0.6492	0.0187
C24	J-BK15	J-BK11	CONDUIT	608.8	1.1498	0.0187
C25	J1	J2	CONDUIT	1593.6	1.3806	0.0375
C26	J2	J-BK21	CONDUIT	1738.2	1.2657	0.0375
C3	J-BK01	OF1	CONDUIT	14.1	0.0071	0.0100

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Cross Section Summary
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Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
C1	channel-main1a	5.50	122.00	1.60	44.00	1	600.86
C2	channel-main1a	5.50	122.00	1.60	44.00	1	590.29
C4	channel-overflow1a	6.00	548.00	1.40	208.00	1	1849.08
C5	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C6	channel-main1st	5.50	122.00	1.60	44.00	1	821.30
C7	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C8	channel-main1st	5.50	122.00	1.60	44.00	1	809.63
C9	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C10	channel-main1st	5.50	122.00	1.60	44.00	1	953.43
C11	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C12	channel-main1st	5.50	122.00	1.60	44.00	1	776.75
C13	street-main	7.00	329.94	2.45	72.50	1	6071.93
C14	channel-main1st	5.50	122.00	1.60	44.00	1	834.10
C15	street-main	7.00	329.94	2.45	72.50	1	9031.78
C16	street-main	7.00	329.94	2.45	72.50	1	6347.39
C17	street-main	7.00	329.94	2.45	72.50	1	5750.89
C18	street-main	7.00	329.94	2.45	72.50	1	9237.00
C19	channel-main1st	5.50	122.00	1.60	44.00	1	822.35
C20	CIRCULAR	6.00	28.27	1.50	6.00	1	296.24
C21	street-overflow	3.00	106.00	0.33	106.00	1	689.78
C22	street-main	7.00	329.94	2.45	72.50	1	4125.30
C23	street-main	7.00	329.94	2.45	72.50	1	3830.49
C24	street-main	7.00	329.94	2.45	72.50	1	5097.96
C25	channel-main1st	5.50	122.00	1.60	44.00	1	777.27
C26	channel-main1st	5.50	122.00	1.60	44.00	1	744.23
C3	DUMMY	0.00	0.00	0.00	0.00	1	0.00

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Transect Summary
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Transect channel-main1st
Area:

0.0036	0.0072	0.0108	0.0144	0.0181
0.0225	0.0276	0.0336	0.0403	0.0479
0.0562	0.0653	0.0752	0.0860	0.0975
0.1098	0.1228	0.1367	0.1514	0.1669
0.1832	0.2002	0.2181	0.2367	0.2561
0.2764	0.2974	0.3192	0.3418	0.3652
0.3894	0.4144	0.4402	0.4668	0.4942
0.5223	0.5513	0.5811	0.6116	0.6430
0.6751	0.7080	0.7417	0.7762	0.8116
0.8477	0.8846	0.9222	0.9607	1.0000

Hrad:

0.0649	0.1233	0.1763	0.2244	0.2721
0.3133	0.3449	0.3701	0.3912	0.4097
0.4266	0.4424	0.4575	0.4722	0.4866
0.5009	0.5152	0.5294	0.5435	0.5577
0.5720	0.5863	0.6006	0.6149	0.6293
0.6438	0.6583	0.6728	0.6874	0.7020
0.7167	0.7314	0.7461	0.7608	0.7756
0.7904	0.8053	0.8201	0.8350	0.8499
0.8649	0.8798	0.8948	0.9098	0.9248
0.9398	0.9548	0.9699	0.9849	1.0000

Width:

0.0909	0.0909	0.0909	0.0909	0.1000
0.1200	0.1400	0.1600	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect channel-main2nd
Area:

0.0061	0.0122	0.0183	0.0244	0.0306
0.0374	0.0448	0.0529	0.0617	0.0711
0.0812	0.0920	0.1035	0.1156	0.1284
0.1419	0.1560	0.1708	0.1863	0.2025
0.2193	0.2368	0.2550	0.2739	0.2934
0.3136	0.3345	0.3560	0.3782	0.4011
0.4247	0.4489	0.4738	0.4994	0.5256
0.5525	0.5801	0.6084	0.6373	0.6669
0.6972	0.7282	0.7598	0.7921	0.8251
0.8587	0.8930	0.9280	0.9637	1.0000

Hrad:

0.0513	0.1000	0.1462	0.1901	0.2337
0.2746	0.3105	0.3427	0.3717	0.3983
0.4229	0.4458	0.4673	0.4876	0.5070
0.5256	0.5434	0.5607	0.5774	0.5937
0.6095	0.6251	0.6403	0.6552	0.6699
0.6844	0.6987	0.7128	0.7267	0.7406
0.7542	0.7678	0.7813	0.7946	0.8079
0.8211	0.8342	0.8473	0.8603	0.8732

0.8861	0.8989	0.9116	0.9244	0.9371
0.9497	0.9623	0.9749	0.9875	1.0000

Width:

0.1667	0.1667	0.1667	0.1667	0.1750
0.1933	0.2117	0.2300	0.2483	0.2667
0.2850	0.3033	0.3217	0.3400	0.3583
0.3767	0.3950	0.4133	0.4317	0.4500
0.4683	0.4867	0.5050	0.5233	0.5417
0.5600	0.5783	0.5967	0.6150	0.6333
0.6517	0.6700	0.6883	0.7067	0.7250
0.7433	0.7617	0.7800	0.7983	0.8167
0.8350	0.8533	0.8717	0.8900	0.9083
0.9267	0.9450	0.9633	0.9817	1.0000

Transect channel-main3rd

Area:

0.0080	0.0159	0.0239	0.0318	0.0398
0.0483	0.0574	0.0671	0.0774	0.0882
0.0996	0.1116	0.1242	0.1374	0.1511
0.1655	0.1804	0.1959	0.2120	0.2287
0.2459	0.2638	0.2822	0.3012	0.3208
0.3410	0.3617	0.3830	0.4050	0.4275
0.4506	0.4742	0.4985	0.5233	0.5487
0.5747	0.6013	0.6285	0.6562	0.6846
0.7135	0.7430	0.7731	0.8037	0.8350
0.8668	0.8993	0.9323	0.9658	1.0000

Hrad:

0.0437	0.0859	0.1267	0.1660	0.2052
0.2427	0.2773	0.3093	0.3392	0.3672
0.3936	0.4186	0.4424	0.4650	0.4867
0.5075	0.5275	0.5469	0.5656	0.5837
0.6013	0.6184	0.6351	0.6514	0.6673
0.6829	0.6982	0.7132	0.7279	0.7424
0.7567	0.7707	0.7846	0.7983	0.8118
0.8252	0.8384	0.8514	0.8644	0.8772
0.8899	0.9025	0.9150	0.9274	0.9397
0.9519	0.9640	0.9761	0.9881	1.0000

Width:

0.2308	0.2308	0.2308	0.2308	0.2385
0.2554	0.2723	0.2892	0.3062	0.3231
0.3400	0.3569	0.3738	0.3908	0.4077
0.4246	0.4415	0.4585	0.4754	0.4923
0.5092	0.5262	0.5431	0.5600	0.5769
0.5938	0.6108	0.6277	0.6446	0.6615
0.6785	0.6954	0.7123	0.7292	0.7462
0.7631	0.7800	0.7969	0.8138	0.8308
0.8477	0.8646	0.8815	0.8985	0.9154
0.9323	0.9492	0.9662	0.9831	1.0000

Transect channel-overflow1s

Area:

0.0018	0.0035	0.0053	0.0070	0.0088
0.0105	0.0123	0.0140	0.0160	0.0190
0.0230	0.0281	0.0342	0.0414	0.0496
0.0589	0.0693	0.0806	0.0931	0.1066
0.1211	0.1367	0.1533	0.1710	0.1898
0.2096	0.2304	0.2523	0.2753	0.2993
0.3243	0.3504	0.3776	0.4058	0.4350
0.4653	0.4967	0.5291	0.5626	0.5971
0.6326	0.6693	0.7069	0.7456	0.7854
0.8262	0.8681	0.9110	0.9550	1.0000

Hrad:

0.0827	0.1607	0.2344	0.3042	0.3703
0.4331	0.4927	0.5495	0.6009	0.6143
0.6032	0.5833	0.5633	0.5469	0.5350
0.5276	0.5242	0.5241	0.5269	0.5320
0.5390	0.5476	0.5576	0.5687	0.5807
0.5936	0.6072	0.6213	0.6360	0.6511
0.6667	0.6825	0.6987	0.7152	0.7319
0.7488	0.7659	0.7832	0.8007	0.8183
0.8360	0.8539	0.8718	0.8899	0.9080
0.9263	0.9446	0.9630	0.9815	1.0000

Width:

0.0385	0.0385	0.0385	0.0385	0.0385
0.0385	0.0385	0.0385	0.0538	0.0769
0.1000	0.1231	0.1462	0.1692	0.1923
0.2154	0.2385	0.2615	0.2846	0.3077
0.3308	0.3538	0.3769	0.4000	0.4231
0.4462	0.4692	0.4923	0.5154	0.5385
0.5615	0.5846	0.6077	0.6308	0.6538
0.6769	0.7000	0.7231	0.7462	0.7692
0.7923	0.8154	0.8385	0.8615	0.8846
0.9077	0.9308	0.9538	0.9769	1.0000

Transect channel-overflow2n

Area:

0.0031	0.0061	0.0092	0.0122	0.0153
0.0183	0.0214	0.0244	0.0277	0.0319
0.0370	0.0432	0.0503	0.0584	0.0675
0.0775	0.0885	0.1005	0.1135	0.1275
0.1424	0.1583	0.1752	0.1930	0.2119
0.2317	0.2525	0.2742	0.2970	0.3207
0.3454	0.3710	0.3977	0.4253	0.4539
0.4835	0.5140	0.5455	0.5780	0.6115
0.6460	0.6814	0.7178	0.7552	0.7936
0.8329	0.8732	0.9145	0.9568	1.0000

Hrad:

0.0714	0.1405	0.2075	0.2726	0.3357
0.3969	0.4564	0.5142	0.5695	0.6043
0.6222	0.6297	0.6317	0.6311	0.6299
0.6291	0.6292	0.6306	0.6332	0.6369
0.6419	0.6479	0.6548	0.6626	0.6711
0.6804	0.6902	0.7007	0.7116	0.7229
0.7346	0.7467	0.7592	0.7719	0.7849
0.7981	0.8115	0.8252	0.8390	0.8530
0.8672	0.8815	0.8959	0.9105	0.9252
0.9400	0.9548	0.9698	0.9849	1.0000

Width:

0.0698	0.0698	0.0698	0.0698	0.0698
0.0698	0.0698	0.0698	0.0847	0.1070
0.1293	0.1516	0.1740	0.1963	0.2186
0.2409	0.2633	0.2856	0.3079	0.3302
0.3526	0.3749	0.3972	0.4195	0.4419
0.4642	0.4865	0.5088	0.5312	0.5535
0.5758	0.5981	0.6205	0.6428	0.6651
0.6874	0.7098	0.7321	0.7544	0.7767
0.7991	0.8214	0.8437	0.8660	0.8884
0.9107	0.9330	0.9553	0.9777	1.0000

Transect channel-overflow3r

Area:

0.0065	0.0130	0.0195	0.0259	0.0324
0.0389	0.0454	0.0519	0.0586	0.0659
0.0741	0.0831	0.0928	0.1033	0.1146
0.1267	0.1395	0.1531	0.1675	0.1827
0.1987	0.2154	0.2329	0.2512	0.2703

0.2901	0.3107	0.3322	0.3543	0.3773
0.4010	0.4256	0.4509	0.4769	0.5038
0.5314	0.5598	0.5890	0.6190	0.6497
0.6813	0.7136	0.7466	0.7805	0.8151
0.8506	0.8867	0.9237	0.9615	1.0000

Hrad:

0.0383	0.0761	0.1135	0.1505	0.1870
0.2231	0.2588	0.2941	0.3179	0.3344
0.3497	0.3643	0.3785	0.3926	0.4068
0.4211	0.4356	0.4503	0.4652	0.4804
0.4959	0.5115	0.5274	0.5434	0.5596
0.5760	0.5926	0.6093	0.6262	0.6432
0.6603	0.6775	0.6948	0.7123	0.7298
0.7474	0.7650	0.7828	0.8006	0.8185
0.8364	0.8544	0.8724	0.8905	0.9087
0.9269	0.9451	0.9634	0.9817	1.0000

Width:

0.1667	0.1667	0.1667	0.1667	0.1667
0.1667	0.1667	0.1667	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect street-main

Area:

0.0004	0.0014	0.0032	0.0057	0.0089
0.0128	0.0175	0.0248	0.0383	0.0546
0.0713	0.0883	0.1057	0.1235	0.1416
0.1601	0.1789	0.1981	0.2176	0.2375
0.2577	0.2783	0.2993	0.3206	0.3423
0.3643	0.3867	0.4095	0.4326	0.4560
0.4798	0.5040	0.5285	0.5534	0.5786
0.6042	0.6302	0.6565	0.6832	0.7102
0.7376	0.7653	0.7934	0.8218	0.8506
0.8798	0.9093	0.9392	0.9694	1.0000

Hrad:

0.0044	0.0089	0.0133	0.0177	0.0222
0.0266	0.0310	0.0361	0.0464	0.0709
0.0993	0.1293	0.1597	0.1901	0.2203
0.2501	0.2794	0.3083	0.3366	0.3644
0.3917	0.4185	0.4448	0.4705	0.4958
0.5205	0.5448	0.5687	0.5921	0.6150
0.6376	0.6597	0.6815	0.7028	0.7238
0.7444	0.7646	0.7845	0.8041	0.8234
0.8423	0.8610	0.8793	0.8973	0.9151
0.9326	0.9498	0.9668	0.9835	1.0000

Width:

0.0232	0.0463	0.0695	0.0927	0.1159
0.1390	0.1622	0.3377	0.5250	0.5366
0.5481	0.5597	0.5713	0.5829	0.5945
0.6061	0.6177	0.6292	0.6408	0.6524
0.6640	0.6756	0.6872	0.6988	0.7103
0.7219	0.7335	0.7451	0.7567	0.7683
0.7799	0.7914	0.8030	0.8146	0.8262
0.8378	0.8494	0.8610	0.8726	0.8841
0.8957	0.9073	0.9189	0.9305	0.9421
0.9537	0.9652	0.9768	0.9884	1.0000

Transect street-overflow

Area:

0.0013	0.0031	0.0052	0.0078	0.0108
0.0141	0.0179	0.0221	0.0267	0.0317
0.0371	0.0429	0.0492	0.0558	0.0628
0.0703	0.0781	0.0864	0.0951	0.1042
0.1136	0.1235	0.1338	0.1445	0.1557
0.1672	0.1791	0.1915	0.2042	0.2174
0.2309	0.2449	0.2593	0.2750	0.2953
0.3203	0.3501	0.3846	0.4239	0.4679
0.5150	0.5635	0.6133	0.6645	0.7170
0.7709	0.8261	0.8827	0.9407	1.0000

Hrad:

0.0251	0.0454	0.0634	0.0802	0.0963
0.1118	0.1270	0.1420	0.1568	0.1714
0.1860	0.2005	0.2149	0.2292	0.2435
0.2577	0.2720	0.2861	0.3003	0.3145
0.3286	0.3427	0.3568	0.3709	0.3849
0.3990	0.4131	0.4271	0.4411	0.4552
0.4692	0.4832	0.4972	0.4907	0.4752
0.4645	0.4602	0.4631	0.4730	0.4895
0.5265	0.5697	0.6175	0.6683	0.7213
0.7758	0.8313	0.8874	0.9437	1.0000

Width:

0.0257	0.0325	0.0392	0.0460	0.0528
0.0596	0.0664	0.0732	0.0800	0.0868
0.0936	0.1004	0.1072	0.1140	0.1208
0.1275	0.1343	0.1411	0.1479	0.1547
0.1615	0.1683	0.1751	0.1819	0.1887
0.1955	0.2023	0.2091	0.2158	0.2226
0.2294	0.2362	0.2430	0.2981	0.3774
0.4566	0.5358	0.6151	0.6943	0.7736
0.7962	0.8189	0.8415	0.8642	0.8868
0.9094	0.9321	0.9547	0.9774	1.0000

Transect largeriver

Area:

0.0049	0.0097	0.0146	0.0194	0.0243
0.0291	0.0340	0.0388	0.0437	0.0485
0.0535	0.0588	0.0644	0.0703	0.0765
0.0829	0.0897	0.0967	0.1040	0.1117
0.1204	0.1311	0.1437	0.1583	0.1748
0.1932	0.2136	0.2359	0.2602	0.2864
0.3146	0.3447	0.3767	0.4107	0.4466
0.4835	0.5204	0.5573	0.5942	0.6311
0.6680	0.7049	0.7417	0.7786	0.8155
0.8524	0.8893	0.9262	0.9631	1.0000

Hrad:

0.0621	0.1218	0.1792	0.2345	0.2878
0.3392	0.3888	0.4367	0.4829	0.5276
0.5782	0.6249	0.6681	0.7083	0.7458
0.7810	0.8140	0.8452	0.8747	0.9028
0.9102	0.9083	0.8978	0.8815	0.8620
0.8413	0.8209	0.8017	0.7841	0.7686
0.7551	0.7436	0.7341	0.7265	0.7205
0.7291	0.7407	0.7546	0.7704	0.7877
0.8061	0.8255	0.8457	0.8665	0.8879
0.9097	0.9318	0.9543	0.9771	1.0000

Width:

0.1316	0.1316	0.1316	0.1316	0.1316
0.1316	0.1316	0.1316	0.1316	0.1316
0.1395	0.1474	0.1553	0.1632	0.1711
0.1789	0.1868	0.1947	0.2026	0.2105

```
          0.2632    0.3158    0.3684    0.4211    0.4737
          0.5263    0.5789    0.6316    0.6842    0.7368
          0.7895    0.8421    0.8947    0.9474    1.0000
          1.0000    1.0000    1.0000    1.0000    1.0000
          1.0000    1.0000    1.0000    1.0000    1.0000
          1.0000    1.0000    1.0000    1.0000    1.0000

Transect channel-main1a
Area:
          0.0036    0.0072    0.0108    0.0144    0.0181
          0.0225    0.0276    0.0336    0.0403    0.0479
          0.0562    0.0653    0.0752    0.0860    0.0975
          0.1098    0.1228    0.1367    0.1514    0.1669
          0.1832    0.2002    0.2181    0.2367    0.2561
          0.2764    0.2974    0.3192    0.3418    0.3652
          0.3894    0.4144    0.4402    0.4668    0.4942
          0.5223    0.5513    0.5811    0.6116    0.6430
          0.6751    0.7080    0.7417    0.7762    0.8116
          0.8477    0.8846    0.9222    0.9607    1.0000
Hrad:
          0.0651    0.1237    0.1767    0.2250    0.2728
          0.3142    0.3458    0.3710    0.3921    0.4107
          0.4275    0.4433    0.4584    0.4731    0.4875
          0.5018    0.5160    0.5302    0.5443    0.5585
          0.5727    0.5869    0.6012    0.6156    0.6300
          0.6444    0.6588    0.6734    0.6879    0.7025
          0.7171    0.7318    0.7465    0.7612    0.7760
          0.7908    0.8056    0.8204    0.8353    0.8502
          0.8651    0.8800    0.8949    0.9099    0.9249
          0.9399    0.9549    0.9699    0.9849    1.0000
Width:
          0.0909    0.0909    0.0909    0.0909    0.1000
          0.1200    0.1400    0.1600    0.1800    0.2000
          0.2200    0.2400    0.2600    0.2800    0.3000
          0.3200    0.3400    0.3600    0.3800    0.4000
          0.4200    0.4400    0.4600    0.4800    0.5000
          0.5200    0.5400    0.5600    0.5800    0.6000
          0.6200    0.6400    0.6600    0.6800    0.7000
          0.7200    0.7400    0.7600    0.7800    0.8000
          0.8200    0.8400    0.8600    0.8800    0.9000
          0.9200    0.9400    0.9600    0.9800    1.0000

Transect channel-overflow1a
Area:
          0.0018    0.0035    0.0053    0.0070    0.0088
          0.0105    0.0123    0.0140    0.0160    0.0190
          0.0230    0.0281    0.0342    0.0414    0.0496
          0.0589    0.0693    0.0806    0.0931    0.1066
          0.1211    0.1367    0.1533    0.1710    0.1898
          0.2096    0.2304    0.2523    0.2753    0.2993
          0.3243    0.3504    0.3776    0.4058    0.4350
          0.4653    0.4967    0.5291    0.5626    0.5971
          0.6326    0.6693    0.7069    0.7456    0.7854
          0.8262    0.8681    0.9110    0.9550    1.0000
Hrad:
          0.0830    0.1612    0.2352    0.3052    0.3715
          0.4345    0.4943    0.5513    0.6028    0.6163
          0.6051    0.5851    0.5650    0.5484    0.5363
          0.5288    0.5253    0.5252    0.5278    0.5329
          0.5398    0.5484    0.5583    0.5694    0.5814
          0.5942    0.6077    0.6219    0.6365    0.6516
          0.6671    0.6830    0.6991    0.7155    0.7322
          0.7491    0.7662    0.7835    0.8009    0.8185
          0.8362    0.8540    0.8720    0.8900    0.9082
          0.9264    0.9447    0.9631    0.9815    1.0000
Width:
          0.0385    0.0385    0.0385    0.0385    0.0385
          0.0385    0.0385    0.0385    0.0538    0.0769
          0.1000    0.1231    0.1462    0.1692    0.1923
          0.2154    0.2385    0.2615    0.2846    0.3077
          0.3308    0.3538    0.3769    0.4000    0.4231
          0.4462    0.4692    0.4923    0.5154    0.5385
          0.5615    0.5846    0.6077    0.6308    0.6538
          0.6769    0.7000    0.7231    0.7462    0.7692
          0.7923    0.8154    0.8385    0.8615    0.8846
          0.9077    0.9308    0.9538    0.9769    1.0000

Transect Channel-overflow2a
Area:
          0.0031    0.0061    0.0092    0.0122    0.0153
          0.0183    0.0214    0.0244    0.0277    0.0319
          0.0370    0.0432    0.0503    0.0584    0.0675
          0.0775    0.0885    0.1005    0.1135    0.1275
          0.1424    0.1583    0.1752    0.1930    0.2119
          0.2317    0.2525    0.2742    0.2970    0.3207
          0.3454    0.3710    0.3977    0.4253    0.4539
          0.4835    0.5140    0.5455    0.5780    0.6115
          0.6460    0.6814    0.7178    0.7552    0.7936
          0.8329    0.8732    0.9145    0.9568    1.0000
Hrad:
          0.0716    0.1409    0.2081    0.2733    0.3366
          0.3980    0.4577    0.5156    0.5711    0.6060
          0.6239    0.6314    0.6333    0.6326    0.6314
          0.6305    0.6306    0.6318    0.6343    0.6381
          0.6429    0.6489    0.6558    0.6635    0.6720
          0.6812    0.6910    0.7014    0.7122    0.7235
          0.7352    0.7473    0.7597    0.7724    0.7853
          0.7985    0.8119    0.8256    0.8394    0.8533
          0.8675    0.8817    0.8961    0.9107    0.9253
          0.9401    0.9549    0.9699    0.9849    1.0000
Width:
          0.0698    0.0698    0.0698    0.0698    0.0698
          0.0698    0.0698    0.0698    0.0847    0.1070
          0.1293    0.1516    0.1740    0.1963    0.2186
          0.2409    0.2633    0.2856    0.3079    0.3302
          0.3526    0.3749    0.3972    0.4195    0.4419
          0.4642    0.4865    0.5088    0.5312    0.5535
          0.5758    0.5981    0.6205    0.6428    0.6651
          0.6874    0.7098    0.7321    0.7544    0.7767
          0.7991    0.8214    0.8437    0.8660    0.8884
          0.9107    0.9330    0.9553    0.9777    1.0000


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......       316.514         1.688
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........       289.957         1.546
Surface Runoff ...........        25.493         0.136
Final Surface Storage ....         1.332         0.007
Continuity Error (%) .....        -0.085


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      10^6 gal
```

Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	25.493	8.307
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	0.000	0.000
External Outflow	25.529	8.319
Internal Outflow	0.000	0.000
Storage Losses	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	0.003	0.001
Continuity Error (%)	-0.153	

****
Highest Flow Instability Indexes
****
Link C16 (3)
Link C15 (2)
Link C1 (1)
Link C2 (1)
Link C25 (1)

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

Minimum Time Step	:	300.00 sec
Average Time Step	:	300.00 sec
Maximum Time Step	:	300.00 sec
Percent in Steady State	:	0.00
Average Iterations per Step	:	1.03

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
BK01	1.69	0.00	0.00	0.04	1.57	0.15	14.31	0.930
BK02	1.69	0.00	0.00	0.05	1.57	0.07	6.50	0.928
BK03	1.69	0.00	0.00	0.09	1.52	0.14	13.00	0.903
BK10	1.69	0.00	0.00	0.57	1.07	0.19	17.71	0.632
BK04	1.69	0.00	0.00	0.07	1.55	0.03	2.77	0.919
BK08	1.69	0.00	0.00	0.34	1.29	0.11	10.96	0.766
BK05	1.69	0.00	0.00	0.30	1.33	0.11	11.26	0.786
BK16	1.69	0.00	0.00	0.63	1.02	0.14	13.30	0.602
BK18	1.69	0.00	0.00	0.78	0.87	0.14	13.13	0.516
BK15	1.69	0.00	0.00	0.63	1.02	0.18	17.57	0.602
BK17	1.69	0.00	0.00	0.60	1.04	0.12	11.44	0.616
BK09	1.69	0.00	0.00	0.54	1.10	0.13	12.86	0.653
BK12	1.69	0.00	0.00	0.56	1.09	0.09	9.26	0.643
BK11	1.69	0.00	0.00	0.62	1.02	0.13	12.03	0.606
BK13	1.69	0.00	0.00	0.75	0.90	0.08	8.04	0.532
BK14	1.69	0.00	0.00	0.58	1.06	0.11	10.58	0.629
BK23	1.69	0.00	0.00	1.60	0.09	3.54	326.85	0.052
BK22	1.69	0.00	0.00	1.59	0.09	0.66	54.91	0.054
BK19	1.69	0.00	0.00	1.29	0.39	0.05	4.70	0.229
BK21	1.69	0.00	0.00	1.50	0.18	2.04	193.01	0.104
BK06	1.69	0.00	0.00	0.43	1.21	0.05	5.10	0.715
BK07	1.69	0.00	0.00	0.09	1.53	0.01	1.00	0.907
BK20	1.69	0.00	0.00	1.21	0.47	0.05	4.25	0.277

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days	hr:min
J-BK23	JUNCTION	0.08	4.33	6884.33	0	00:35
J-BK22	JUNCTION	0.04	2.00	6882.00	0	00:35
J-BK21	JUNCTION	0.11	3.59	6789.59	0	00:50
J-BK19	JUNCTION	0.11	3.66	6775.66	0	00:55
J-BK18	JUNCTION	0.12	3.67	6765.67	0	00:55
J-BK17	JUNCTION	0.00	0.00	6763.00	0	00:00
J-BK13	JUNCTION	0.00	0.00	6753.00	0	00:00
J-BK16	JUNCTION	0.07	1.20	6753.20	0	00:35
J-BK15	JUNCTION	0.07	1.27	6751.27	0	00:35
J-BK12	JUNCTION	0.13	3.79	6745.79	0	01:00
J-BK11	JUNCTION	0.04	1.32	6744.32	0	00:40
J-BK10	JUNCTION	0.07	1.14	6735.14	0	00:35
J-BK09	JUNCTION	0.13	3.77	6739.77	0	01:00
J-BK08	JUNCTION	0.06	0.98	6735.98	0	00:35
J-BK05	JUNCTION	0.07	1.27	6729.27	0	00:35
J-BK06	JUNCTION	0.13	3.69	6731.69	0	01:00
J-BK04	JUNCTION	0.05	0.50	6723.50	0	00:35
J-BK02	JUNCTION	0.06	1.03	6709.03	0	00:35
J-BK14	JUNCTION	0.12	3.65	6755.65	0	01:00
J-BK20	JUNCTION	0.00	0.00	6773.00	0	00:00

J-BK07	JUNCTION	0.06	0.96	6734.96	0	00:35
J1	JUNCTION	0.08	4.03	6834.03	0	00:40
J2	JUNCTION	0.09	3.74	6811.74	0	00:45
J-BK01	JUNCTION	0.15	4.23	6710.23	0	00:55
OF1	OUTFALL	0.02	1.00	6707.00	0	00:40
J-BK03	DIVIDER	0.15	4.22	6728.22	0	00:50

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days	hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal
J-BK23	JUNCTION	326.85	326.85	0	00:35	3.537	3.537
J-BK22	JUNCTION	54.91	54.91	0	00:35	0.658	0.658
J-BK21	JUNCTION	193.01	317.73	0	00:50	2.036	6.242
J-BK19	JUNCTION	4.70	303.12	0	00:55	0.053	6.343
J-BK18	JUNCTION	13.13	300.89	0	00:55	0.135	6.595
J-BK17	JUNCTION	11.44	11.44	0	00:35	0.117	0.117
J-BK13	JUNCTION	8.04	8.04	0	00:35	0.083	0.083
J-BK16	JUNCTION	13.30	13.30	0	00:35	0.137	0.137
J-BK15	JUNCTION	17.57	27.06	0	00:35	0.181	0.318
J-BK12	JUNCTION	9.26	311.98	0	01:00	0.094	7.328
J-BK11	JUNCTION	12.03	34.32	0	00:40	0.126	0.443
J-BK10	JUNCTION	17.71	17.71	0	00:35	0.187	0.187
J-BK09	JUNCTION	12.86	311.12	0	01:00	0.131	7.459
J-BK08	JUNCTION	10.96	10.96	0	00:35	0.115	0.115
J-BK05	JUNCTION	11.26	24.58	0	00:35	0.115	0.302
J-BK06	JUNCTION	5.10	309.33	0	01:00	0.052	7.635
J-BK04	JUNCTION	2.77	2.77	0	00:35	0.028	0.028
J-BK02	JUNCTION	6.50	8.42	0	00:35	0.066	0.094
J-BK14	JUNCTION	10.58	300.46	0	01:00	0.112	6.790
J-BK20	JUNCTION	4.25	4.25	0	00:35	0.047	0.047
J-BK07	JUNCTION	1.00	11.45	0	00:35	0.010	0.125
J1	JUNCTION	0.00	319.56	0	00:40	0.000	4.201
J2	JUNCTION	0.00	288.31	0	00:45	0.000	4.202
J-BK01	JUNCTION	14.31	319.17	0	01:05	0.148	8.225
OF1	OUTFALL	0.00	320.85	0	01:05	0.000	8.319
J-BK03	DIVIDER	13.00	315.19	0	01:00	0.140	8.077

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
J-BK17	JUNCTION	48.08	0.000	0.000
J-BK13	JUNCTION	48.08	0.000	0.000
J-BK20	JUNCTION	48.08	0.000	0.000

****
Node Flooding Summary
****

No nodes were flooded.

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume 10^6 gal
OF1	48.35	13.29	320.85	8.319
System	48.35	13.29	320.85	8.319

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days	hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
C1	CHANNEL	44.11	0	00:40	3.72	0.07	0.31
C2	CHANNEL	275.45	0	00:40	4.85	0.47	0.69
C4	CHANNEL	300.49	0	00:55	2.73	0.16	0.53
C5	DUMMY	4.25	0	00:35			
C6	CHANNEL	295.30	0	00:55	5.63	0.36	0.66
C7	DUMMY	11.44	0	00:35			
C8	CHANNEL	296.93	0	01:00	5.55	0.37	0.66
C9	DUMMY	8.04	0	00:35			
C10	CHANNEL	300.32	0	01:00	6.28	0.31	0.62
C11	DUMMY	34.32	0	00:40			
C12	CHANNEL	308.85	0	01:00	5.35	0.40	0.69
C13	CHANNEL	15.23	0	00:40	2.21	0.00	0.16
C14	CHANNEL	306.05	0	01:00	5.68	0.37	0.67
C15	CHANNEL	10.37	0	00:35	2.44	0.00	0.12
C16	CHANNEL	10.45	0	00:35	1.84	0.00	0.14
C17	CHANNEL	24.12	0	00:40	2.04	0.00	0.18
C18	CHANNEL	2.46	0	00:40	1.77	0.00	0.07
C19	CHANNEL	306.29	0	01:05	5.59	0.37	0.67
C20	CONDUIT	250.05	0	00:55	11.75	0.84	0.70
C21	CHANNEL	67.12	0	01:05	7.68	0.10	0.53
C22	CHANNEL	7.77	0	00:40	1.37	0.00	0.14
C23	CHANNEL	11.36	0	00:40	1.49	0.00	0.16
C24	CHANNEL	26.91	0	00:40	1.95	0.01	0.19
C25	CHANNEL	288.31	0	00:45	5.74	0.37	0.64
C26	CHANNEL	262.14	0	00:50	5.46	0.35	0.63
C3	DUMMY	319.17	0	01:05			

****
Conduit Surcharge Summary
****

	Hours Full		Hours Above Full	Hours Capacity

Conduit	Both Ends	Upstream	Dnstream	Normal Flow	Limited
C5	0.01	0.01	0.01	48.08	0.01
C7	0.01	0.01	0.01	48.08	0.01
C9	0.01	0.01	0.01	48.08	0.01
C11	0.01	0.01	0.01	48.08	0.01
C3	0.01	0.01	0.01	48.08	0.01

Analysis begun on: Sat Dec 29 08:01:12 2012
Analysis ended on: Sat Dec 29 08:01:12 2012
Total elapsed time: < 1 sec

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.022)

Copper Ridge Basin - Future Conditions
UDFCD gauge 100 year 2 hr
12/2012-Link C4 was rerouted from J-CR29 to J-CR33 per Ben Beall

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... KINWAVE
Starting Date JUL-31-2012 00:00:00
Ending Date AUG-01-2012 03:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 300.00 sec

WARNING 04: minimum elevation drop used for Conduit C46

WARNING 04: minimum elevation drop used for Conduit C47

WARNING 04: minimum elevation drop used for Conduit C48

WARNING 04: minimum elevation drop used for Conduit C49

WARNING 04: minimum elevation drop used for Conduit C50

****
Element Count
****
Number of rain gages 2
Number of subcatchments ... 37
Number of nodes 50
Number of links 51
Number of pollutants 0
Number of land uses 0

****
Raingage Summary
****

Name	Data Source	Data Type	Recording Interval
rg100	SCS_24h_Type_II_2.8in	INTENSITY	15 min.
UDFCD100	UDFCD100	VOLUME	5 min.

****
Subcatchment Summary
****

Name	Area	Width	%Imperv	%Slope	Rain Gage	Outlet
CR13	26.20	4707.00	60.20	3.7476	UDFCD100	J-CR13
CR36	524.76	13172.80	5.20	16.3488	UDFCD100	J-CR36
CR33	179.28	10028.20	11.40	15.3467	UDFCD100	J-CR33
CR20	19.96	3966.00	29.10	10.8926	UDFCD100	J-CR20
CR19	44.32	5185.60	55.20	15.3348	UDFCD100	J-CR19
CR30	21.89	4991.30	68.90	9.2882	UDFCD100	J-CR30
CR16	22.01	3806.00	87.60	2.3121	UDFCD100	J-CR16
CR17	29.42	2797.60	87.80	1.9331	UDFCD100	J-CR17
CR24	89.51	7620.90	12.30	18.8482	UDFCD100	J-CR24
CR28	27.31	2405.70	68.10	2.9264	UDFCD100	J-CR28
CR27	42.32	5531.80	44.80	11.0018	UDFCD100	J-CR27
CR25	59.60	7728.00	3.10	17.2360	UDFCD100	J-CR25
CR34	105.20	6391.00	2.80	14.3264	UDFCD100	J-CR34
CR31	53.02	4748.10	33.00	9.2374	UDFCD100	J-CR31
CR29	25.05	2151.60	83.10	8.8957	UDFCD100	J-CR29
CR22	196.10	9959.40	14.80	13.6635	UDFCD100	J-CR22
CR10	5.93	1303.90	18.40	1.0430	UDFCD100	J-CR10
CR08	24.06	3989.90	40.60	0.9374	UDFCD100	J-CR08
CR05	24.83	2938.60	86.90	1.0481	UDFCD100	J-CR05
CR21	20.94	2680.60	58.50	10.1843	UDFCD100	J-CR21
CR18	9.30	922.48	95.40	18.0383	UDFCD100	J-CR18
CR26	7.18	2218.50	21.80	19.4636	UDFCD100	J-CR26
CR35	59.54	4148.80	70.70	5.3991	UDFCD100	J-CR35
CR32	49.22	4362.40	59.10	6.8815	UDFCD100	J-CR32
CR14	10.58	1040.60	92.20	9.0909	UDFCD100	J-CR14
CR12	15.01	2977.30	72.10	1.2763	UDFCD100	J-CR12
CR11	5.62	1322.40	58.10	0.8621	UDFCD100	J-CR11
CR15	21.33	2020.80	90.10	6.3341	UDFCD100	J-CR15
CR09	6.87	2108.00	58.70	0.7590	UDFCD100	J-CR09
CR03	18.95	2116.50	92.20	1.6064	UDFCD100	J-CR03
CR04	7.28	865.28	96.40	1.2019	UDFCD100	J-CR04
CR07	23.35	2509.20	90.10	1.5782	UDFCD100	J-CR07
CR23	36.81	2258.20	23.00	27.6503	UDFCD100	J-CR23
CR02	6.30	806.00	65.50	1.2903	UDFCD100	J-CR02
CR37	22.52	4120.00	50.10	1.1650	UDFCD100	J-CR37
CR06	8.97	1995.80	5.40	1.1925	UDFCD100	J-CR06
CR01	18.45	2934.10	71.10	1.1520	UDFCD100	J-CR01

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Node Summary
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Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
J-CR21	JUNCTION	6680.00	5.50	0.0	
J-CR05	JUNCTION	6652.00	6.00	0.0	
J-CR08	JUNCTION	6646.00	6.00	0.0	
J-CR16	JUNCTION	6680.00	3.00	0.0	
J-CR15	JUNCTION	6668.00	5.50	0.0	
J-CR20	JUNCTION	6672.00	6.00	0.0	
J-CR24	JUNCTION	6682.00	6.00	0.0	
J-CR27	JUNCTION	6684.00	6.00	0.0	

J-CR28	JUNCTION	6704.00	6.00	0.0
J-CR29	JUNCTION	6708.00	6.00	0.0
J-CR31	JUNCTION	6698.00	6.00	0.0
J-CR30	JUNCTION	6712.00	3.00	0.0
J-CR33	JUNCTION	6710.00	6.00	0.0
J-CR25	JUNCTION	6774.00	3.00	0.0
J-CR34	JUNCTION	6766.00	6.00	0.0
J-CR36	JUNCTION	6734.00	6.00	0.0
J-CR22	JUNCTION	6684.00	6.00	0.0
J-CR18	JUNCTION	6674.00	6.00	0.0
J-CR26	JUNCTION	6786.00	3.00	0.0
J-CR35	JUNCTION	6740.00	6.00	0.0
J-CR32	JUNCTION	6720.00	6.00	0.0
J-CR13	JUNCTION	6652.00	6.00	0.0
J-CR14	JUNCTION	6662.00	6.00	0.0
J-CR09	JUNCTION	6644.00	5.50	0.0
J-CR10	JUNCTION	6638.00	5.50	0.0
J-CR03	JUNCTION	6662.00	6.00	0.0
J-CR04	JUNCTION	6664.00	5.50	0.0
J-CR07	JUNCTION	6654.00	6.00	0.0
J-CR23	JUNCTION	6690.00	3.00	0.0
J-CR01	JUNCTION	6662.00	10.00	0.0
J-CR02	JUNCTION	6660.00	10.00	0.0
J-CR11	JUNCTION	6642.00	5.50	0.0
J-CR06	JUNCTION	6648.00	6.00	0.0
J-CR37	JUNCTION	6674.00	10.00	0.0
J1	JUNCTION	6708.00	6.00	0.0
J2	JUNCTION	6668.00	6.00	0.0
J3	JUNCTION	6658.00	6.00	0.0
J4	JUNCTION	6688.00	6.00	0.0
J5	JUNCTION	6666.00	10.00	0.0
J6	JUNCTION	6654.16	6.00	0.0
J7	JUNCTION	6685.66	6.00	0.0
J8	JUNCTION	6742.80	6.00	0.0
J9	JUNCTION	6652.00	10.00	0.0
J10	JUNCTION	6648.00	10.00	0.0
J11	JUNCTION	6646.00	10.00	0.0
J12	JUNCTION	6638.00	10.00	0.0
J-CR12	JUNCTION	6635.00	3.00	0.0
OF1	OUTFALL	6635.00	10.00	0.0
J-CR17	DIVIDER	6670.00	6.00	0.0
J-CR19	STORAGE	6672.00	8.00	0.0

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Link Summary
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Name	From Node	To Node	Type	Length	%Slope	Roughness
C1	J-CR35	J-CR32	CONDUIT	1146.8	1.7442	0.0375
C2	J-CR36	J-CR33	CONDUIT	1250.9	1.9189	0.0375
C3	J-CR25	J-CR34	CONDUIT	79.9	10.0618	0.0187
C4	J-CR32	J-CR33	CONDUIT	278.6	3.5910	0.0375
C5	J-CR29	J7	CONDUIT	1233.3	1.8117	0.0375
C6	J-CR28	J-CR27	CONDUIT	1157.3	1.7285	0.0375
C7	J-CR27	J-CR24	CONDUIT	239.4	0.8354	0.0375
C8	J-CR24	J-CR18	CONDUIT	732.4	1.0924	0.0375
C9	J-CR18	J-CR19	CONDUIT	378.6	0.5283	0.0375
C10	J-CR26	J-CR25	CONDUIT	318.1	3.7751	0.0187
C11	J-CR34	J8	CONDUIT	568.0	4.0876	0.0375
C12	J-CR33	J1	CONDUIT	191.7	1.0434	0.0375
C13	J1	J-CR28	CONDUIT	646.3	0.6189	0.0375
C14	J-CR30	J-CR31	CONDUIT	323.5	4.3320	0.0187
C15	J-CR16	J-CR14	CONDUIT	602.1	2.9910	0.0187
C16	J12	OF1	CONDUIT	522.1	0.5746	0.0350
C17	J11	J12	CONDUIT	899.2	0.8897	0.0350
C18	J10	J11	CONDUIT	1042.1	0.1919	0.0350
C19	J-CR02	J9	CONDUIT	1167.7	0.6851	0.0350
C20	J9	J10	CONDUIT	914.1	0.4376	0.0350
C21	J-CR11	J-CR10	CONDUIT	256.6	1.5592	0.0375
C22	J-CR09	J-CR10	CONDUIT	534.3	1.1231	0.0375
C23	J-CR13	J-CR12	CONDUIT	1120.5	1.5174	0.0187
C24	J-CR15	J-CR07	CONDUIT	927.6	1.5094	0.0375
C25	J-CR07	J-CR06	CONDUIT	688.0	0.8722	0.0375
C26	J-CR14	J6	CONDUIT	847.3	0.9254	0.0375
C27	J-CR31	J-CR13	CONDUIT	1505.6	3.0566	0.0375
C28	J-CR17	J2	CONDUIT	378.0	0.5291	0.0130
C29	J-CR17	J2	CONDUIT	378.0	0.5291	0.0187
C30	J2	J3	CONDUIT	780.1	1.2820	0.0375
C32	J3	J-CR05	CONDUIT	756.5	0.7931	0.0375
C33	J-CR04	J3	CONDUIT	557.5	1.0764	0.0375
C34	J-CR37	J5	CONDUIT	1220.8	0.6553	0.0350
C35	J-CR01	J-CR02	CONDUIT	876.9	0.2281	0.0350
C36	J-CR23	J4	CONDUIT	1125.3	0.1777	0.0187
C37	J4	J-CR37	CONDUIT	407.4	3.4386	0.0375
C38	J-CR21	J-CR20	CONDUIT	267.3	2.9945	0.0375
C39	J5	J-CR01	CONDUIT	1019.2	0.3925	0.0350
C40	J-CR22	J5	CONDUIT	426.7	4.2226	0.0375
C41	J-CR20	J3	CONDUIT	1158.3	1.2088	0.0375
C42	J-CR03	J-CR05	CONDUIT	1142.8	0.8751	0.0375
C43	J6	J-CR08	CONDUIT	879.2	0.9281	0.0375
C44	J7	J-CR17	CONDUIT	865.7	1.8092	0.0375
C45	J8	J1	CONDUIT	920.2	3.7844	0.0187
C46	J-CR05	J9	CONDUIT	27.7	0.0036	0.0100
C47	J-CR06	J10	CONDUIT	30.8	0.0033	0.0100
C48	J-CR08	J11	CONDUIT	14.8	0.0067	0.0100
C49	J-CR10	J12	CONDUIT	16.9	0.0059	0.0100
C50	J-CR12	OF1	CONDUIT	14.6	0.0069	0.0100
C31	J-CR19	J2	ORIFICE			
W1	J-CR19	J2	WEIR			

****
Cross Section Summary
****

Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
C1	channel-overflow1s	6.00	548.00	1.40	208.00	1	3594.71
C2	channel-overflow1s	6.00	548.00	1.40	208.00	1	3770.49
C3	street-overflow	3.00	106.00	0.33	106.00	1	1283.98
C4	channel-overflow1s	6.00	548.00	1.40	208.00	1	5157.98
C5	channel-overflow1s	6.00	548.00	1.40	208.00	1	3663.59
C6	channel-overflow1s	6.00	548.00	1.40	208.00	1	3578.50
C7	channel-overflow1s	6.00	548.00	1.40	208.00	1	2487.78
C8	channel-overflow1s	6.00	548.00	1.40	208.00	1	2844.88
C9	channel-overflow1s	6.00	548.00	1.40	208.00	1	1978.45
C10	street-overflow	3.00	106.00	0.33	106.00	1	786.47
C11	channel-overflow1s	6.00	548.00	1.40	208.00	1	5503.02
C12	channel-overflow1s	6.00	548.00	1.40	208.00	1	2780.26
C13	channel-overflow1s	6.00	548.00	1.40	208.00	1	2141.33
C14	street-overflow	3.00	106.00	0.33	106.00	1	842.49
C15	street-overflow	3.00	106.00	0.33	106.00	1	700.05
C16	largeriver	10.00	824.00	3.15	152.00	1	5693.86
C17	largeriver	10.00	824.00	3.15	152.00	1	7084.96
C18	largeriver	10.00	824.00	3.15	152.00	1	3290.67

C19	largeriver	10.00	824.00	3.15	152.00	1	6217.43
C20	largeriver	10.00	824.00	3.15	152.00	1	4968.89
C21	channel-main1st	5.50	122.00	1.60	44.00	1	825.99
C22	channel-main1st	5.50	122.00	1.60	44.00	1	701.04
C23	street-overflow	3.00	106.00	0.33	106.00	1	498.61
C24	channel-main2nd	5.50	144.00	2.08	48.00	1	1141.28
C25	channel-overflow2n	6.00	590.00	1.65	215.00	1	3046.83
C26	channel-overflow1s	6.00	548.00	1.40	208.00	1	2618.34
C27	channel-overflow1s	6.00	548.00	1.40	208.00	1	4758.72
C28	CIRCULAR	5.00	19.63	1.25	5.00	1	189.45
C29	street-overflow	3.00	106.00	0.33	106.00	1	294.44
C30	channel-overflow2n	6.00	590.00	1.65	215.00	1	3694.00
C32	channel-overflow2n	6.00	590.00	1.65	215.00	1	2905.50
C33	channel-main1st	5.50	122.00	1.60	44.00	1	686.30
C34	largeriver	10.00	824.00	3.15	152.00	1	6080.60
C35	largeriver	10.00	824.00	3.15	152.00	1	3587.17
C36	street-overflow	3.00	106.00	0.33	106.00	1	170.65
C37	channel-overflow1s	6.00	548.00	1.40	208.00	1	5047.33
C38	channel-main1st	5.50	122.00	1.60	44.00	1	1144.70
C39	largeriver	10.00	824.00	3.15	152.00	1	4705.78
C40	channel-overflow2n	6.00	590.00	1.65	215.00	1	6704.10
C41	channel-overflow1s	6.00	548.00	1.40	208.00	1	2992.58
C42	channel-overflow1s	6.00	548.00	1.40	208.00	1	2546.18
C43	channel-overflow1s	6.00	548.00	1.40	208.00	1	2622.25
C44	channel-overflow1s	6.00	548.00	1.40	208.00	1	3661.08
C45	street-overflow	3.00	106.00	0.33	106.00	1	787.44
C46	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C47	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C48	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C49	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C50	DUMMY	0.00	0.00	0.00	0.00	1	0.00

****
Transect Summary
****

Transect channel-main1st
Area:

0.0036	0.0072	0.0108	0.0144	0.0181
0.0225	0.0276	0.0336	0.0403	0.0479
0.0562	0.0653	0.0752	0.0860	0.0975
0.1098	0.1228	0.1367	0.1514	0.1669
0.1832	0.2002	0.2181	0.2367	0.2561
0.2764	0.2974	0.3192	0.3418	0.3652
0.3894	0.4144	0.4402	0.4668	0.4942
0.5223	0.5513	0.5811	0.6116	0.6430
0.6751	0.7080	0.7417	0.7762	0.8116
0.8477	0.8846	0.9222	0.9607	1.0000

Hrad:

0.0649	0.1233	0.1763	0.2244	0.2721
0.3133	0.3449	0.3701	0.3912	0.4097
0.4266	0.4424	0.4575	0.4722	0.4866
0.5009	0.5152	0.5294	0.5435	0.5577
0.5720	0.5863	0.6006	0.6149	0.6293
0.6438	0.6583	0.6728	0.6874	0.7020
0.7167	0.7314	0.7461	0.7608	0.7756
0.7904	0.8053	0.8201	0.8350	0.8499
0.8649	0.8798	0.8948	0.9098	0.9248
0.9398	0.9548	0.9699	0.9849	1.0000

Width:

0.0909	0.0909	0.0909	0.0909	0.1000
0.1200	0.1400	0.1600	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect channel-main2nd
Area:

0.0061	0.0122	0.0183	0.0244	0.0306
0.0374	0.0448	0.0529	0.0617	0.0711
0.0812	0.0920	0.1035	0.1156	0.1284
0.1419	0.1560	0.1708	0.1863	0.2025
0.2193	0.2368	0.2550	0.2739	0.2934
0.3136	0.3345	0.3560	0.3782	0.4011
0.4247	0.4489	0.4738	0.4994	0.5256
0.5525	0.5801	0.6084	0.6373	0.6669
0.6972	0.7282	0.7598	0.7921	0.8251
0.8587	0.8930	0.9280	0.9637	1.0000

Hrad:

0.0513	0.1000	0.1462	0.1901	0.2337
0.2746	0.3105	0.3427	0.3717	0.3983
0.4229	0.4458	0.4673	0.4876	0.5070
0.5256	0.5434	0.5607	0.5774	0.5937
0.6095	0.6251	0.6403	0.6552	0.6699
0.6844	0.6987	0.7128	0.7267	0.7406
0.7542	0.7678	0.7813	0.7946	0.8079
0.8211	0.8342	0.8473	0.8603	0.8732
0.8861	0.8989	0.9116	0.9244	0.9371
0.9497	0.9623	0.9749	0.9875	1.0000

Width:

0.1667	0.1667	0.1667	0.1667	0.1750
0.1933	0.2117	0.2300	0.2483	0.2667
0.2850	0.3033	0.3217	0.3400	0.3583
0.3767	0.3950	0.4133	0.4317	0.4500
0.4683	0.4867	0.5050	0.5233	0.5417
0.5600	0.5783	0.5967	0.6150	0.6333
0.6517	0.6700	0.6883	0.7067	0.7250
0.7433	0.7617	0.7800	0.7983	0.8167
0.8350	0.8533	0.8717	0.8900	0.9083
0.9267	0.9450	0.9633	0.9817	1.0000

Transect channel-main3rd
Area:

0.0080	0.0159	0.0239	0.0318	0.0398
0.0483	0.0574	0.0671	0.0774	0.0882
0.0996	0.1116	0.1242	0.1374	0.1511
0.1655	0.1804	0.1959	0.2120	0.2287
0.2459	0.2638	0.2822	0.3012	0.3208
0.3410	0.3617	0.3830	0.4050	0.4275
0.4506	0.4742	0.4985	0.5233	0.5487
0.5747	0.6013	0.6285	0.6562	0.6846
0.7135	0.7430	0.7731	0.8037	0.8350
0.8668	0.8993	0.9323	0.9658	1.0000

Hrad:

0.0437	0.0859	0.1267	0.1660	0.2052
0.2427	0.2773	0.3093	0.3392	0.3672
0.3936	0.4186	0.4424	0.4650	0.4867
0.5075	0.5275	0.5469	0.5656	0.5837
0.6013	0.6184	0.6351	0.6514	0.6673

0.6829	0.6982	0.7132	0.7279	0.7424
0.7567	0.7707	0.7846	0.7983	0.8118
0.8252	0.8384	0.8514	0.8644	0.8772
0.8899	0.9025	0.9150	0.9274	0.9397
0.9519	0.9640	0.9761	0.9881	1.0000

Width:

0.2308	0.2308	0.2308	0.2308	0.2385
0.2554	0.2723	0.2892	0.3062	0.3231
0.3400	0.3569	0.3738	0.3908	0.4077
0.4246	0.4415	0.4585	0.4754	0.4923
0.5092	0.5262	0.5431	0.5600	0.5769
0.5938	0.6108	0.6277	0.6446	0.6615
0.6785	0.6954	0.7123	0.7292	0.7462
0.7631	0.7800	0.7969	0.8138	0.8308
0.8477	0.8646	0.8815	0.8985	0.9154
0.9323	0.9492	0.9662	0.9831	1.0000

Transect channel-overflow1s

Area:

0.0018	0.0035	0.0053	0.0070	0.0088
0.0105	0.0123	0.0140	0.0160	0.0190
0.0230	0.0281	0.0342	0.0414	0.0496
0.0589	0.0693	0.0806	0.0931	0.1066
0.1211	0.1367	0.1533	0.1710	0.1898
0.2096	0.2304	0.2523	0.2753	0.2993
0.3243	0.3504	0.3776	0.4058	0.4350
0.4653	0.4967	0.5291	0.5626	0.5971
0.6326	0.6693	0.7069	0.7456	0.7854
0.8262	0.8681	0.9110	0.9550	1.0000

Hrad:

0.0827	0.1607	0.2344	0.3042	0.3703
0.4331	0.4927	0.5495	0.6009	0.6143
0.6032	0.5833	0.5633	0.5469	0.5350
0.5276	0.5242	0.5241	0.5269	0.5320
0.5390	0.5476	0.5576	0.5687	0.5807
0.5936	0.6072	0.6213	0.6360	0.6511
0.6667	0.6825	0.6987	0.7152	0.7319
0.7488	0.7659	0.7832	0.8007	0.8183
0.8360	0.8539	0.8718	0.8899	0.9080
0.9263	0.9446	0.9630	0.9815	1.0000

Width:

0.0385	0.0385	0.0385	0.0385	0.0385
0.0385	0.0385	0.0385	0.0538	0.0769
0.1000	0.1231	0.1462	0.1692	0.1923
0.2154	0.2385	0.2615	0.2846	0.3077
0.3308	0.3538	0.3769	0.4000	0.4231
0.4462	0.4692	0.4923	0.5154	0.5385
0.5615	0.5846	0.6077	0.6308	0.6538
0.6769	0.7000	0.7231	0.7462	0.7692
0.7923	0.8154	0.8385	0.8615	0.8846
0.9077	0.9308	0.9538	0.9769	1.0000

Transect channel-overflow2n

Area:

0.0031	0.0061	0.0092	0.0122	0.0153
0.0183	0.0214	0.0244	0.0277	0.0319
0.0370	0.0432	0.0503	0.0584	0.0675
0.0775	0.0885	0.1005	0.1135	0.1275
0.1424	0.1583	0.1752	0.1930	0.2119
0.2317	0.2525	0.2742	0.2970	0.3207
0.3454	0.3710	0.3977	0.4253	0.4539
0.4835	0.5140	0.5455	0.5780	0.6115
0.6460	0.6814	0.7178	0.7552	0.7936
0.8329	0.8732	0.9145	0.9568	1.0000

Hrad:

0.0714	0.1405	0.2075	0.2726	0.3357
0.3969	0.4564	0.5142	0.5695	0.6043
0.6222	0.6297	0.6317	0.6311	0.6299
0.6291	0.6292	0.6306	0.6332	0.6369
0.6419	0.6479	0.6548	0.6626	0.6711
0.6804	0.6902	0.7007	0.7116	0.7229
0.7346	0.7467	0.7592	0.7719	0.7849
0.7981	0.8115	0.8252	0.8390	0.8530
0.8672	0.8815	0.8959	0.9105	0.9252
0.9400	0.9548	0.9698	0.9849	1.0000

Width:

0.0698	0.0698	0.0698	0.0698	0.0698
0.0698	0.0698	0.0698	0.0847	0.1070
0.1293	0.1516	0.1740	0.1963	0.2186
0.2409	0.2633	0.2856	0.3079	0.3302
0.3526	0.3749	0.3972	0.4195	0.4419
0.4642	0.4865	0.5088	0.5312	0.5535
0.5758	0.5981	0.6205	0.6428	0.6651
0.6874	0.7098	0.7321	0.7544	0.7767
0.7991	0.8214	0.8437	0.8660	0.8884
0.9107	0.9330	0.9553	0.9777	1.0000

Transect channel-overflow3r

Area:

0.0065	0.0130	0.0195	0.0259	0.0324
0.0389	0.0454	0.0519	0.0586	0.0659
0.0741	0.0831	0.0928	0.1033	0.1146
0.1267	0.1395	0.1531	0.1675	0.1827
0.1987	0.2154	0.2329	0.2512	0.2703
0.2901	0.3107	0.3322	0.3543	0.3773
0.4010	0.4256	0.4509	0.4769	0.5038
0.5314	0.5598	0.5890	0.6190	0.6497
0.6813	0.7136	0.7466	0.7805	0.8151
0.8506	0.8867	0.9237	0.9615	1.0000

Hrad:

0.0383	0.0761	0.1135	0.1505	0.1870
0.2231	0.2588	0.2941	0.3179	0.3344
0.3497	0.3643	0.3785	0.3926	0.4068
0.4211	0.4356	0.4503	0.4652	0.4804
0.4959	0.5115	0.5274	0.5434	0.5596
0.5760	0.5926	0.6093	0.6262	0.6432
0.6603	0.6775	0.6948	0.7123	0.7298
0.7474	0.7650	0.7828	0.8006	0.8185
0.8364	0.8544	0.8724	0.8905	0.9087
0.9269	0.9451	0.9634	0.9817	1.0000

Width:

0.1667	0.1667	0.1667	0.1667	0.1667
0.1667	0.1667	0.1667	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect street-main

Area:

0.0004	0.0014	0.0032	0.0057	0.0089
0.0128	0.0175	0.0248	0.0383	0.0546

0.0713	0.0883	0.1057	0.1235	0.1416
0.1601	0.1789	0.1981	0.2176	0.2375
0.2577	0.2783	0.2993	0.3206	0.3423
0.3643	0.3867	0.4095	0.4326	0.4560
0.4798	0.5040	0.5285	0.5534	0.5786
0.6042	0.6302	0.6565	0.6832	0.7102
0.7376	0.7653	0.7934	0.8218	0.8506
0.8798	0.9093	0.9392	0.9694	1.0000

Hrad:

0.0044	0.0089	0.0133	0.0177	0.0222
0.0266	0.0310	0.0361	0.0464	0.0709
0.0993	0.1293	0.1597	0.1901	0.2203
0.2501	0.2794	0.3083	0.3366	0.3644
0.3917	0.4185	0.4448	0.4705	0.4958
0.5205	0.5448	0.5687	0.5921	0.6150
0.6376	0.6597	0.6815	0.7028	0.7238
0.7444	0.7646	0.7845	0.8041	0.8234
0.8423	0.8610	0.8793	0.8973	0.9151
0.9326	0.9498	0.9668	0.9835	1.0000

Width:

0.0232	0.0463	0.0695	0.0927	0.1159
0.1390	0.1622	0.3377	0.5250	0.5366
0.5481	0.5597	0.5713	0.5829	0.5945
0.6061	0.6177	0.6292	0.6408	0.6524
0.6640	0.6756	0.6872	0.6988	0.7103
0.7219	0.7335	0.7451	0.7567	0.7683
0.7799	0.7914	0.8030	0.8146	0.8262
0.8378	0.8494	0.8610	0.8726	0.8841
0.8957	0.9073	0.9189	0.9305	0.9421
0.9537	0.9652	0.9768	0.9884	1.0000

Transect street-overflow

Area:

0.0013	0.0031	0.0052	0.0078	0.0108
0.0141	0.0179	0.0221	0.0267	0.0317
0.0371	0.0429	0.0492	0.0558	0.0628
0.0703	0.0781	0.0864	0.0951	0.1042
0.1136	0.1235	0.1338	0.1445	0.1557
0.1672	0.1791	0.1915	0.2042	0.2174
0.2309	0.2449	0.2593	0.2750	0.2953
0.3203	0.3501	0.3846	0.4239	0.4679
0.5150	0.5635	0.6133	0.6645	0.7170
0.7709	0.8261	0.8827	0.9407	1.0000

Hrad:

0.0251	0.0454	0.0634	0.0802	0.0963
0.1118	0.1270	0.1420	0.1568	0.1714
0.1860	0.2005	0.2149	0.2292	0.2435
0.2577	0.2720	0.2861	0.3003	0.3145
0.3286	0.3427	0.3568	0.3709	0.3849
0.3990	0.4131	0.4271	0.4411	0.4552
0.4692	0.4832	0.4972	0.4907	0.4752
0.4645	0.4602	0.4631	0.4730	0.4895
0.5265	0.5697	0.6175	0.6683	0.7213
0.7758	0.8313	0.8874	0.9437	1.0000

Width:

0.0257	0.0325	0.0392	0.0460	0.0528
0.0596	0.0664	0.0732	0.0800	0.0868
0.0936	0.1004	0.1072	0.1140	0.1208
0.1275	0.1343	0.1411	0.1479	0.1547
0.1615	0.1683	0.1751	0.1819	0.1887
0.1955	0.2023	0.2091	0.2158	0.2226
0.2294	0.2362	0.2430	0.2981	0.3774
0.4566	0.5358	0.6151	0.6943	0.7736
0.7962	0.8189	0.8415	0.8642	0.8868
0.9094	0.9321	0.9547	0.9774	1.0000

Transect largeriver

Area:

0.0049	0.0097	0.0146	0.0194	0.0243
0.0291	0.0340	0.0388	0.0437	0.0485
0.0535	0.0588	0.0644	0.0703	0.0765
0.0829	0.0897	0.0967	0.1040	0.1117
0.1204	0.1311	0.1437	0.1583	0.1748
0.1932	0.2136	0.2359	0.2602	0.2864
0.3146	0.3447	0.3767	0.4107	0.4466
0.4835	0.5204	0.5573	0.5942	0.6311
0.6680	0.7049	0.7417	0.7786	0.8155
0.8524	0.8893	0.9262	0.9631	1.0000

Hrad:

0.0621	0.1218	0.1792	0.2345	0.2878
0.3392	0.3888	0.4367	0.4829	0.5276
0.5782	0.6249	0.6681	0.7083	0.7458
0.7810	0.8140	0.8452	0.8747	0.9028
0.9102	0.9083	0.8978	0.8815	0.8620
0.8413	0.8209	0.8017	0.7841	0.7686
0.7551	0.7436	0.7341	0.7265	0.7205
0.7291	0.7407	0.7546	0.7704	0.7877
0.8061	0.8255	0.8457	0.8665	0.8879
0.9097	0.9318	0.9543	0.9771	1.0000

Width:

0.1316	0.1316	0.1316	0.1316	0.1316
0.1316	0.1316	0.1316	0.1316	0.1316
0.1395	0.1474	0.1553	0.1632	0.1711
0.1789	0.1868	0.1947	0.2026	0.2105
0.2632	0.3158	0.3684	0.4211	0.4737
0.5263	0.5789	0.6316	0.6842	0.7368
0.7895	0.8421	0.8947	0.9474	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000

Transect channel-main1a

Area:

0.0036	0.0072	0.0108	0.0144	0.0181
0.0225	0.0276	0.0336	0.0403	0.0479
0.0562	0.0653	0.0752	0.0860	0.0975
0.1098	0.1228	0.1367	0.1514	0.1669
0.1832	0.2002	0.2181	0.2367	0.2561
0.2764	0.2974	0.3192	0.3418	0.3652
0.3894	0.4144	0.4402	0.4668	0.4942
0.5223	0.5513	0.5811	0.6116	0.6430
0.6751	0.7080	0.7417	0.7762	0.8116
0.8477	0.8846	0.9222	0.9607	1.0000

Hrad:

0.0651	0.1237	0.1767	0.2250	0.2728
0.3142	0.3458	0.3710	0.3921	0.4107
0.4275	0.4433	0.4584	0.4731	0.4875
0.5018	0.5160	0.5302	0.5443	0.5585
0.5727	0.5869	0.6012	0.6156	0.6300
0.6444	0.6588	0.6734	0.6879	0.7025
0.7171	0.7318	0.7465	0.7612	0.7760
0.7908	0.8056	0.8204	0.8353	0.8502
0.8651	0.8800	0.8949	0.9099	0.9249
0.9399	0.9549	0.9699	0.9849	1.0000

Width:

0.0909	0.0909	0.0909	0.0909	0.1000

```
          0.1200    0.1400    0.1600    0.1800    0.2000
          0.2200    0.2400    0.2600    0.2800    0.3000
          0.3200    0.3400    0.3600    0.3800    0.4000
          0.4200    0.4400    0.4600    0.4800    0.5000
          0.5200    0.5400    0.5600    0.5800    0.6000
          0.6200    0.6400    0.6600    0.6800    0.7000
          0.7200    0.7400    0.7600    0.7800    0.8000
          0.8200    0.8400    0.8600    0.8800    0.9000
          0.9200    0.9400    0.9600    0.9800    1.0000

Transect channel-overflow1a
Area:
          0.0018    0.0035    0.0053    0.0070    0.0088
          0.0105    0.0123    0.0140    0.0160    0.0190
          0.0230    0.0281    0.0342    0.0414    0.0496
          0.0589    0.0693    0.0806    0.0931    0.1066
          0.1211    0.1367    0.1533    0.1710    0.1898
          0.2096    0.2304    0.2523    0.2753    0.2993
          0.3243    0.3504    0.3776    0.4058    0.4350
          0.4653    0.4967    0.5291    0.5626    0.5971
          0.6326    0.6693    0.7069    0.7456    0.7854
          0.8262    0.8681    0.9110    0.9550    1.0000
Hrad:
          0.0830    0.1612    0.2352    0.3052    0.3715
          0.4345    0.4943    0.5513    0.6028    0.6163
          0.6051    0.5851    0.5650    0.5484    0.5363
          0.5288    0.5253    0.5252    0.5278    0.5329
          0.5398    0.5484    0.5583    0.5694    0.5814
          0.5942    0.6077    0.6219    0.6365    0.6516
          0.6671    0.6830    0.6991    0.7155    0.7322
          0.7491    0.7662    0.7835    0.8009    0.8185
          0.8362    0.8540    0.8720    0.8900    0.9082
          0.9264    0.9447    0.9631    0.9815    1.0000
Width:
          0.0385    0.0385    0.0385    0.0385    0.0385
          0.0385    0.0385    0.0385    0.0538    0.0769
          0.1000    0.1231    0.1462    0.1692    0.1923
          0.2154    0.2385    0.2615    0.2846    0.3077
          0.3308    0.3538    0.3769    0.4000    0.4231
          0.4462    0.4692    0.4923    0.5154    0.5385
          0.5615    0.5846    0.6077    0.6308    0.6538
          0.6769    0.7000    0.7231    0.7462    0.7692
          0.7923    0.8154    0.8385    0.8615    0.8846
          0.9077    0.9308    0.9538    0.9769    1.0000

Transect Channel-overflow2a
Area:
          0.0031    0.0061    0.0092    0.0122    0.0153
          0.0183    0.0214    0.0244    0.0277    0.0319
          0.0370    0.0432    0.0503    0.0584    0.0675
          0.0775    0.0885    0.1005    0.1135    0.1275
          0.1424    0.1583    0.1752    0.1930    0.2119
          0.2317    0.2525    0.2742    0.2970    0.3207
          0.3454    0.3710    0.3977    0.4253    0.4539
          0.4835    0.5140    0.5455    0.5780    0.6115
          0.6460    0.6814    0.7178    0.7552    0.7936
          0.8329    0.8732    0.9145    0.9568    1.0000
Hrad:
          0.0716    0.1409    0.2081    0.2733    0.3366
          0.3980    0.4577    0.5156    0.5711    0.6060
          0.6239    0.6314    0.6333    0.6326    0.6314
          0.6305    0.6306    0.6318    0.6343    0.6381
          0.6429    0.6489    0.6558    0.6635    0.6720
          0.6812    0.6910    0.7014    0.7122    0.7235
          0.7352    0.7473    0.7597    0.7724    0.7853
          0.7985    0.8119    0.8256    0.8394    0.8533
          0.8675    0.8817    0.8961    0.9107    0.9253
          0.9401    0.9549    0.9699    0.9849    1.0000
Width:
          0.0698    0.0698    0.0698    0.0698    0.0698
          0.0698    0.0698    0.0698    0.0847    0.1070
          0.1293    0.1516    0.1740    0.1963    0.2186
          0.2409    0.2633    0.2856    0.3079    0.3302
          0.3526    0.3749    0.3972    0.4195    0.4419
          0.4642    0.4865    0.5088    0.5312    0.5535
          0.5758    0.5981    0.6205    0.6428    0.6651
          0.6874    0.7098    0.7321    0.7544    0.7767
          0.7991    0.8214    0.8437    0.8660    0.8884
          0.9107    0.9330    0.9553    0.9777    1.0000


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......       262.867         1.688
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........       171.955         1.104
Surface Runoff ...........        87.773         0.564
Final Surface Storage ....         3.986         0.026
Continuity Error (%) .....        -0.322


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      10^6 gal
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......        87.772        28.602
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........        87.068        28.373
Internal Outflow .........         0.966         0.315
Storage Losses ...........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         0.023         0.007
Continuity Error (%) .....        -0.325


********************************
Highest Flow Instability Indexes
********************************
Link C7 (4)
Link C3 (3)
Link C2 (2)
Link C18 (2)
Link C23 (2)


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :   300.00 sec
Average Time Step           :   300.00 sec
Maximum Time Step           :   300.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.06
```

****
Subcatchment Runoff Summary
****

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
CR13	1.69	0.00	0.00	0.58	1.06	0.76	67.93	0.631
CR36	1.69	0.00	0.00	1.51	0.17	2.48	120.58	0.103
CR33	1.69	0.00	0.00	1.36	0.32	1.55	90.30	0.189
CR20	1.69	0.00	0.00	1.03	0.64	0.35	25.68	0.379
CR19	1.69	0.00	0.00	0.65	1.00	1.20	106.89	0.592
CR30	1.69	0.00	0.00	0.44	1.20	0.71	66.20	0.709
CR16	1.69	0.00	0.00	0.18	1.45	0.86	78.34	0.857
CR17	1.69	0.00	0.00	0.18	1.44	1.15	91.13	0.856
CR24	1.69	0.00	0.00	1.32	0.37	0.89	48.72	0.217
CR28	1.69	0.00	0.00	0.48	1.16	0.86	71.92	0.688
CR27	1.69	0.00	0.00	0.81	0.85	0.98	83.15	0.503
CR25	1.69	0.00	0.00	1.44	0.25	0.41	23.64	0.150
CR34	1.69	0.00	0.00	1.50	0.19	0.55	25.22	0.113
CR31	1.69	0.00	0.00	1.01	0.66	0.95	76.43	0.390
CR29	1.69	0.00	0.00	0.24	1.38	0.94	84.88	0.820
CR22	1.69	0.00	0.00	1.32	0.36	1.93	127.83	0.214
CR10	1.69	0.00	0.00	1.25	0.43	0.07	4.80	0.253
CR08	1.69	0.00	0.00	0.91	0.75	0.49	40.94	0.444
CR05	1.69	0.00	0.00	0.19	1.43	0.96	74.40	0.848
CR21	1.69	0.00	0.00	0.60	1.04	0.59	53.21	0.618
CR18	1.69	0.00	0.00	0.06	1.55	0.39	37.54	0.920
CR26	1.69	0.00	0.00	1.12	0.56	0.11	7.25	0.335
CR35	1.69	0.00	0.00	0.43	1.20	1.94	163.84	0.711
CR32	1.69	0.00	0.00	0.61	1.04	1.39	121.86	0.616
CR14	1.69	0.00	0.00	0.11	1.51	0.43	39.99	0.894
CR12	1.69	0.00	0.00	0.41	1.23	0.50	44.17	0.727
CR11	1.69	0.00	0.00	0.62	1.02	0.16	13.62	0.606
CR15	1.69	0.00	0.00	0.14	1.48	0.86	76.67	0.877
CR09	1.69	0.00	0.00	0.61	1.04	0.19	17.10	0.614
CR03	1.69	0.00	0.00	0.11	1.51	0.77	61.98	0.892
CR04	1.69	0.00	0.00	0.05	1.56	0.31	23.96	0.926
CR07	1.69	0.00	0.00	0.14	1.48	0.94	74.11	0.875
CR23	1.69	0.00	0.00	1.16	0.52	0.52	37.33	0.306
CR02	1.69	0.00	0.00	0.52	1.12	0.19	15.97	0.664
CR37	1.69	0.00	0.00	0.75	0.90	0.55	47.27	0.534
CR06	1.69	0.00	0.00	1.45	0.23	0.06	2.41	0.139
CR01	1.69	0.00	0.00	0.43	1.21	0.61	51.49	0.716

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days	hr:min
J-CR21	JUNCTION	0.04	1.46	6681.46	0	00:35
J-CR05	JUNCTION	0.23	3.01	6655.01	0	01:05
J-CR08	JUNCTION	0.07	1.80	6647.80	0	00:45
J-CR16	JUNCTION	0.07	1.70	6681.70	0	00:35
J-CR15	JUNCTION	0.04	1.49	6669.49	0	00:35
J-CR20	JUNCTION	0.05	1.60	6673.60	0	00:35
J-CR24	JUNCTION	0.19	3.41	6685.41	0	00:50
J-CR27	JUNCTION	0.19	3.39	6687.39	0	00:50
J-CR28	JUNCTION	0.18	3.44	6707.44	0	00:45
J-CR29	JUNCTION	0.05	1.55	6709.55	0	00:35
J-CR31	JUNCTION	0.06	1.70	6699.70	0	00:35
J-CR30	JUNCTION	0.05	1.47	6713.47	0	00:35
J-CR33	JUNCTION	0.15	3.11	6713.11	0	00:40
J-CR25	JUNCTION	0.04	0.87	6774.87	0	00:50
J-CR34	JUNCTION	0.04	0.98	6766.98	0	00:50
J-CR36	JUNCTION	0.08	1.80	6735.80	0	00:35
J-CR22	JUNCTION	0.04	1.08	6685.08	0	00:35
J-CR18	JUNCTION	0.22	3.77	6677.77	0	00:50
J-CR26	JUNCTION	0.03	0.58	6786.58	0	00:40
J-CR35	JUNCTION	0.07	2.05	6742.05	0	00:35
J-CR32	JUNCTION	0.08	2.02	6722.02	0	00:40
J-CR13	JUNCTION	0.12	2.46	6654.46	0	00:40
J-CR14	JUNCTION	0.08	1.92	6663.92	0	00:35
J-CR09	JUNCTION	0.03	1.05	6645.05	0	00:35

J-CR10	JUNCTION	0.03	1.00	6639.00	0	00:40
J-CR03	JUNCTION	0.06	1.59	6663.59	0	00:35
J-CR04	JUNCTION	0.05	1.27	6665.27	0	00:35
J-CR07	JUNCTION	0.06	1.67	6655.67	0	00:35
J-CR23	JUNCTION	0.09	2.25	6692.25	0	00:35
J-CR01	JUNCTION	0.12	2.63	6664.63	0	00:40
J-CR02	JUNCTION	0.12	2.56	6662.56	0	00:45
J-CR11	JUNCTION	0.03	0.86	6642.86	0	00:35
J-CR06	JUNCTION	0.06	1.68	6649.68	0	00:40
J-CR37	JUNCTION	0.04	0.84	6674.84	0	00:35
J1	JUNCTION	0.17	3.48	6711.48	0	00:40
J2	JUNCTION	0.22	3.18	6671.18	0	00:40
J3	JUNCTION	0.23	3.01	6661.01	0	01:00
J4	JUNCTION	0.11	1.85	6689.85	0	00:45
J5	JUNCTION	0.08	1.95	6667.95	0	00:40
J6	JUNCTION	0.07	1.86	6656.02	0	00:40
J7	JUNCTION	0.05	1.47	6687.13	0	00:40
J8	JUNCTION	0.06	1.38	6744.18	0	00:50
J9	JUNCTION	0.31	4.59	6656.59	0	00:55
J10	JUNCTION	0.41	5.68	6653.68	0	01:00
J11	JUNCTION	0.41	5.66	6651.66	0	01:05
J12	JUNCTION	0.32	4.55	6642.55	0	01:05
J-CR12	JUNCTION	0.12	2.43	6637.43	0	00:45
OF1	OUTFALL	0.32	4.55	6639.55	0	01:05
J-CR17	DIVIDER	0.14	3.11	6673.11	0	00:40
J-CR19	STORAGE	0.87	8.00	6680.00	0	01:10

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min		Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal
J-CR21	JUNCTION	53.21	53.21	0	00:35	0.594	0.594
J-CR05	JUNCTION	74.40	513.91	0	01:00	0.965	17.533
J-CR08	JUNCTION	40.94	104.88	0	00:45	0.489	1.791
J-CR16	JUNCTION	78.34	78.34	0	00:35	0.865	0.865
J-CR15	JUNCTION	76.67	76.67	0	00:35	0.857	0.857
J-CR20	JUNCTION	25.68	74.79	0	00:35	0.347	0.940
J-CR24	JUNCTION	48.72	513.21	0	00:50	0.890	11.167
J-CR27	JUNCTION	83.15	470.47	0	00:50	0.976	10.277
J-CR28	JUNCTION	71.92	457.61	0	00:45	0.861	9.300
J-CR29	JUNCTION	84.88	84.88	0	00:35	0.942	0.942
J-CR31	JUNCTION	76.43	135.44	0	00:35	0.947	1.659
J-CR30	JUNCTION	66.20	66.20	0	00:35	0.712	0.712
J-CR33	JUNCTION	90.30	409.00	0	00:40	1.554	7.371
J-CR25	JUNCTION	23.64	28.88	0	00:50	0.410	0.520
J-CR34	JUNCTION	25.22	53.24	0	00:50	0.545	1.065
J-CR36	JUNCTION	120.58	120.58	0	00:35	2.484	2.484
J-CR22	JUNCTION	127.83	127.83	0	00:35	1.925	1.925
J-CR18	JUNCTION	37.54	510.73	0	00:50	0.392	11.560
J-CR26	JUNCTION	7.25	7.25	0	00:40	0.110	0.110
J-CR35	JUNCTION	163.84	163.84	0	00:35	1.941	1.941
J-CR32	JUNCTION	121.86	227.32	0	00:40	1.389	3.331
J-CR13	JUNCTION	67.93	166.86	0	00:40	0.757	2.418
J-CR14	JUNCTION	39.99	100.47	0	00:35	0.434	1.298
J-CR09	JUNCTION	17.10	17.10	0	00:35	0.193	0.193
J-CR10	JUNCTION	4.80	29.91	0	00:35	0.069	0.418

J-CR03	JUNCTION	61.98	61.98	0	00:35	0.775	0.775
J-CR04	JUNCTION	23.96	23.96	0	00:35	0.309	0.309
J-CR07	JUNCTION	74.11	129.40	0	00:35	0.936	1.794
J-CR23	JUNCTION	37.33	37.33	0	00:35	0.517	0.517
J-CR01	JUNCTION	51.49	179.52	0	00:40	0.605	3.636
J-CR02	JUNCTION	15.97	179.91	0	00:45	0.192	3.834
J-CR11	JUNCTION	13.62	13.62	0	00:35	0.156	0.156
J-CR06	JUNCTION	2.41	133.04	0	00:40	0.057	1.852
J-CR37	JUNCTION	47.27	48.51	0	00:35	0.551	1.093
J1	JUNCTION	0.00	437.60	0	00:40	0.000	8.438
J2	JUNCTION	0.00	445.48	0	01:00	0.000	14.539
J3	JUNCTION	0.00	477.14	0	01:00	0.000	15.791
J4	JUNCTION	0.00	23.33	0	00:45	0.000	0.542
J5	JUNCTION	0.00	143.46	0	00:40	0.000	3.023
J6	JUNCTION	0.00	92.82	0	00:40	0.000	1.299
J7	JUNCTION	0.00	75.48	0	00:40	0.000	0.943
J8	JUNCTION	0.00	52.86	0	00:50	0.000	1.066
J9	JUNCTION	0.00	652.47	0	00:55	0.000	21.373
J10	JUNCTION	0.00	693.67	0	01:00	0.000	23.228
J11	JUNCTION	0.00	731.17	0	01:00	0.000	25.028
J12	JUNCTION	0.00	739.58	0	01:05	0.000	25.449
J-CR12	JUNCTION	44.17	174.49	0	00:45	0.500	2.921
OF1	OUTFALL	0.00	821.77	0	01:00	0.000	28.370
J-CR17	DIVIDER	91.13	134.44	0	00:40	1.154	2.098
J-CR19	STORAGE	106.89	541.47	0	00:55	1.203	12.763

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
J-CR19	STORAGE	1.08	1.999	0.001

****
Node Flooding Summary
****

Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CFS	Time of Max Occurrence days hr:min		Total Flood Volume 10^6 gal	Maximum Ponded Volume 1000 ft3
J-CR19	0.25	67.44	0	01:00	0.315	0.000

****
Storage Volume Summary
****

Storage Unit	Average Volume 1000 ft3	Avg Pcnt Full	E&I Pcnt Loss	Maximum Volume 1000 ft3	Max Pcnt Full	Time of Max Occurrence days hr:min	Maximum Outflow CFS

J-CR19	23.804	7	0	348.705	100	0	01:00	397.07

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume 10^6 gal
OF1	88.62	43.90	821.77	28.370
System	88.62	43.90	821.77	28.370

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
C1	CHANNEL	144.99	0 00:40	5.26	0.04	0.31
C2	CHANNEL	108.09	0 00:40	5.57	0.03	0.27
C3	CHANNEL	28.91	0 00:45	4.62	0.02	0.29
C4	CHANNEL	232.99	0 00:40	6.86	0.05	0.34
C5	CHANNEL	75.48	0 00:40	5.84	0.02	0.23
C6	CHANNEL	438.71	0 00:50	5.20	0.12	0.49
C7	CHANNEL	476.33	0 00:50	3.35	0.19	0.57
C8	CHANNEL	499.95	0 00:50	3.97	0.18	0.55
C9	CHANNEL	510.60	0 00:55	2.80	0.26	0.63
C10	CHANNEL	7.40	0 00:40	2.28	0.01	0.20
C11	CHANNEL	52.86	0 00:50	6.79	0.01	0.16
C12	CHANNEL	410.19	0 00:40	3.73	0.15	0.52
C13	CHANNEL	421.99	0 00:45	2.99	0.20	0.57
C14	CHANNEL	59.01	0 00:35	4.21	0.07	0.48
C15	CHANNEL	69.25	0 00:40	4.00	0.10	0.54
C16	CHANNEL	739.66	0 01:05	6.52	0.13	0.46
C17	CHANNEL	730.81	0 01:05	8.02	0.10	0.40
C18	CHANNEL	687.66	0 01:05	4.00	0.21	0.57
C19	CHANNEL	175.66	0 00:45	4.81	0.03	0.19
C20	CHANNEL	649.17	0 01:00	5.74	0.13	0.46
C21	CHANNEL	12.11	0 00:35	3.54	0.01	0.15
C22	CHANNEL	15.02	0 00:40	3.40	0.02	0.18
C23	CHANNEL	154.49	0 00:45	3.51	0.31	0.80
C24	CHANNEL	69.09	0 00:40	5.20	0.06	0.25
C25	CHANNEL	130.89	0 00:40	4.32	0.04	0.28
C26	CHANNEL	92.82	0 00:40	4.00	0.04	0.31
C27	CHANNEL	122.35	0 00:40	7.64	0.03	0.26
C28	CONDUIT	138.72	0 00:40	10.67	0.73	0.63
C29	CHANNEL	0.00	0 00:00	0.00	0.00	0.00
C30	CHANNEL	444.88	0 01:00	5.07	0.12	0.44
C32	CHANNEL	474.56	0 01:05	3.99	0.16	0.50
C33	CHANNEL	22.86	0 00:40	3.41	0.03	0.22
C34	CHANNEL	44.84	0 00:45	2.89	0.01	0.08
C35	CHANNEL	172.00	0 00:45	3.40	0.05	0.25
C36	CHANNEL	23.33	0 00:45	1.19	0.14	0.60
C37	CHANNEL	24.42	0 00:45	4.94	0.00	0.10
C38	CHANNEL	49.11	0 00:35	5.73	0.04	0.26
C39	CHANNEL	142.03	0 00:40	3.75	0.03	0.19
C40	CHANNEL	118.42	0 00:35	7.45	0.02	0.18
C41	CHANNEL	66.69	0 00:40	4.71	0.02	0.25
C42	CHANNEL	53.09	0 00:40	3.98	0.02	0.25
C43	CHANNEL	86.35	0 00:45	4.01	0.03	0.30
C44	CHANNEL	69.03	0 00:45	5.53	0.02	0.23
C45	CHANNEL	52.81	0 00:55	3.78	0.07	0.46
C46	DUMMY	513.91	0 01:00			
C47	DUMMY	133.04	0 00:40			
C48	DUMMY	104.88	0 00:45			
C49	DUMMY	29.91	0 00:35			
C50	DUMMY	174.49	0 00:45			
C31	ORIFICE	24.82	0 01:10			0.00
W1	WEIR	372.25	0 01:10			0.00

****
Conduit Surcharge Summary
****

Conduit	Hours Full Both Ends	Hours Full Upstream	Hours Full Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C46	0.01	0.01	0.01	27.08	0.01
C47	0.01	0.01	0.01	27.08	0.01
C48	0.01	0.01	0.01	27.08	0.01
C49	0.01	0.01	0.01	27.08	0.01
C50	0.01	0.01	0.01	27.08	0.01

Analysis begun on: Wed Dec 19 10:25:47 2012
Analysis ended on: Wed Dec 19 10:25:47 2012
Total elapsed time: < 1 sec

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.022)

Emerald Mountain/ Orton Meadows Basin - Future Conditions
UDFCD gauge 100 year 2 hr
Previously called 13th Street Basin (TS)

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... KINWAVE
Starting Date JUL-31-2012 00:00:00
Ending Date AUG-01-2012 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 300.00 sec

WARNING 04: minimum elevation drop used for Conduit 1

****
Element Count
****
Number of rain gages 2
Number of subcatchments ... 11
Number of nodes 17
Number of links 17
Number of pollutants 0
Number of land uses 0

****
Raingage Summary
****

Name	Data Source	Data Type	Recording Interval
rg100	SCS_24h_Type_II_2.8in	INTENSITY	15 min.
UDFCD100	UDFCD100	VOLUME	5 min.

****
Subcatchment Summary
****

Name	Area	Width	%Imperv	%Slope	Rain Gage	Outlet
TS07	96.88	1460.00	12.10	11.1446	UDFCD100	J-TS07
TS05	201.48	1336.00	15.90	10.8884	UDFCD100	J-TS05
TS06	637.09	2248.00	5.70	13.7722	UDFCD100	J-TS06
TS09	50.85	4395.00	21.60	11.3578	UDFCD100	J-TS09
TS01	34.75	4070.00	84.60	0.8108	UDFCD100	J-TS01
TS02	6.11	1331.00	78.80	1.5773	UDFCD100	J-TS02
TS03	47.01	4119.00	8.70	10.4829	UDFCD100	J-TS03
TS04	70.59	5667.00	10.40	10.8741	UDFCD100	J-TS04
TS08	63.98	9406.00	14.40	10.5890	UDFCD100	J-TS08
TS10	8.41	2531.00	50.20	0.7585	UDFCD100	J-TS10
TS11	175.33	9250.00	5.70	6.7328	UDFCD100	J5

****
Node Summary
****

Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
J-TS07	JUNCTION	6706.00	5.50	0.0	
J-TS09	JUNCTION	6718.00	5.50	0.0	
J-TS04	JUNCTION	6667.00	5.50	0.0	
J-TS02	JUNCTION	6693.00	6.00	0.0	
J-TS08	JUNCTION	6702.00	5.50	0.0	
J-TS06	JUNCTION	6692.00	5.50	0.0	
J-TS05	JUNCTION	6674.00	5.50	0.0	
J1	JUNCTION	6670.00	6.00	0.0	
J2	JUNCTION	6678.00	6.00	0.0	
J3	JUNCTION	6686.00	6.00	0.0	
J4	JUNCTION	6665.68	7.00	0.0	
J5	JUNCTION	6686.00	5.50	0.0	
J-TS01	JUNCTION	6662.00	6.00	0.0	
J-TS10	JUNCTION	6714.00	10.00	0.0	
1	JUNCTION	6686.00	10.00	0.0	
J6	OUTFALL	6658.00	10.00	0.0	
J-TS03	DIVIDER	6666.00	7.00	0.0	

****
Link Summary
****

Name	From Node	To Node	Type	Length	%Slope	Roughness
C1	J-TS09	J-TS10	CONDUIT	166.9	2.3978	0.0375
C2	J-TS08	J5	CONDUIT	217.2	7.3876	0.0375
C3	J-TS07	J-TS06	CONDUIT	727.7	1.9243	0.0375
C4	J-TS06	J-TS05	CONDUIT	1297.3	1.3876	0.0375
C5	J-TS05	J-TS04	CONDUIT	966.6	0.7242	0.0375
C6	J-TS04	J-TS03	CONDUIT	510.9	0.1957	0.0375
C7	J-TS03	J4	CONDUIT	65.0	0.5000	0.0240
C8	J-TS02	J3	CONDUIT	875.2	0.7998	0.0375
C9	J3	J2	CONDUIT	942.2	0.8491	0.0375
C10	J2	J1	CONDUIT	990.3	0.8079	0.0375
C11	J1	J-TS01	CONDUIT	927.1	0.8629	0.0375
C12	J-TS03	J4	CONDUIT	65.0	0.5000	0.0187
C13	J4	J-TS01	CONDUIT	388.4	0.9463	0.0375
C14	J-TS01	J6	CONDUIT	125.2	3.1965	0.0100
C15	1	J6	CONDUIT	4829.6	0.5798	0.0350
C16	J-TS10	1	CONDUIT	4991.9	0.5609	0.0350
1	J5	1	CONDUIT	39.5	0.0025	0.0100

****
Cross Section Summary
****

Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
C1	channel-main1st	5.50	122.00	1.60	44.00	1	1024.32
C2	channel-main1st	5.50	122.00	1.60	44.00	1	1797.97
C3	channel-main1st	5.50	122.00	1.60	44.00	1	917.63
C4	channel-main1st	5.50	122.00	1.60	44.00	1	779.23
C5	channel-main1st	5.50	122.00	1.60	44.00	1	562.93
C6	channel-main1st	5.50	122.00	1.60	44.00	1	292.66
C7	HORIZ_ELLIPSE	2.50	7.93	0.77	3.25	1	29.06
C8	channel-overflow1s	6.00	548.00	1.40	208.00	1	2434.24
C9	channel-overflow1s	6.00	548.00	1.40	208.00	1	2508.16
C10	channel-overflow1s	6.00	548.00	1.40	208.00	1	2446.47
C11	channel-overflow1s	6.00	548.00	1.40	208.00	1	2528.41
C12	street-main	7.00	329.94	2.45	72.50	1	3361.78
C13	channel-main1st	5.50	122.00	1.60	44.00	1	643.50
C14	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C15	largeriver	10.00	824.00	3.15	152.00	1	5719.34
C16	largeriver	10.00	824.00	3.15	152.00	1	5625.59
1	DUMMY	0.00	0.00	0.00	0.00	1	0.00

****
Transect Summary
****

Transect channel-main1st
Area:

0.0036	0.0072	0.0108	0.0144	0.0181
0.0225	0.0276	0.0336	0.0403	0.0479
0.0562	0.0653	0.0752	0.0860	0.0975
0.1098	0.1228	0.1367	0.1514	0.1669
0.1832	0.2002	0.2181	0.2367	0.2561
0.2764	0.2974	0.3192	0.3418	0.3652
0.3894	0.4144	0.4402	0.4668	0.4942
0.5223	0.5513	0.5811	0.6116	0.6430
0.6751	0.7080	0.7417	0.7762	0.8116
0.8477	0.8846	0.9222	0.9607	1.0000

Hrad:

0.0649	0.1233	0.1763	0.2244	0.2721
0.3133	0.3449	0.3701	0.3912	0.4097
0.4266	0.4424	0.4575	0.4722	0.4866
0.5009	0.5152	0.5294	0.5435	0.5577
0.5720	0.5863	0.6006	0.6149	0.6293
0.6438	0.6583	0.6728	0.6874	0.7020
0.7167	0.7314	0.7461	0.7608	0.7756
0.7904	0.8053	0.8201	0.8350	0.8499
0.8649	0.8798	0.8948	0.9098	0.9248
0.9398	0.9548	0.9699	0.9849	1.0000

Width:

0.0909	0.0909	0.0909	0.0909	0.1000
0.1200	0.1400	0.1600	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect channel-main2nd
Area:

0.0061	0.0122	0.0183	0.0244	0.0306
0.0374	0.0448	0.0529	0.0617	0.0711
0.0812	0.0920	0.1035	0.1156	0.1284
0.1419	0.1560	0.1708	0.1863	0.2025
0.2193	0.2368	0.2550	0.2739	0.2934
0.3136	0.3345	0.3560	0.3782	0.4011
0.4247	0.4489	0.4738	0.4994	0.5256
0.5525	0.5801	0.6084	0.6373	0.6669
0.6972	0.7282	0.7598	0.7921	0.8251
0.8587	0.8930	0.9280	0.9637	1.0000

Hrad:

0.0513	0.1000	0.1462	0.1901	0.2337
0.2746	0.3105	0.3427	0.3717	0.3983
0.4229	0.4458	0.4673	0.4876	0.5070
0.5256	0.5434	0.5607	0.5774	0.5937
0.6095	0.6251	0.6403	0.6552	0.6699
0.6844	0.6987	0.7128	0.7267	0.7406
0.7542	0.7678	0.7813	0.7946	0.8079
0.8211	0.8342	0.8473	0.8603	0.8732
0.8861	0.8989	0.9116	0.9244	0.9371
0.9497	0.9623	0.9749	0.9875	1.0000

Width:

0.1667	0.1667	0.1667	0.1667	0.1750
0.1933	0.2117	0.2300	0.2483	0.2667
0.2850	0.3033	0.3217	0.3400	0.3583
0.3767	0.3950	0.4133	0.4317	0.4500
0.4683	0.4867	0.5050	0.5233	0.5417
0.5600	0.5783	0.5967	0.6150	0.6333
0.6517	0.6700	0.6883	0.7067	0.7250
0.7433	0.7617	0.7800	0.7983	0.8167
0.8350	0.8533	0.8717	0.8900	0.9083
0.9267	0.9450	0.9633	0.9817	1.0000

Transect channel-main3rd
Area:

0.0080	0.0159	0.0239	0.0318	0.0398
0.0483	0.0574	0.0671	0.0774	0.0882
0.0996	0.1116	0.1242	0.1374	0.1511
0.1655	0.1804	0.1959	0.2120	0.2287
0.2459	0.2638	0.2822	0.3012	0.3208
0.3410	0.3617	0.3830	0.4050	0.4275
0.4506	0.4742	0.4985	0.5233	0.5487
0.5747	0.6013	0.6285	0.6562	0.6846
0.7135	0.7430	0.7731	0.8037	0.8350
0.8668	0.8993	0.9323	0.9658	1.0000

Hrad:

0.0437	0.0859	0.1267	0.1660	0.2052
0.2427	0.2773	0.3093	0.3392	0.3672
0.3936	0.4186	0.4424	0.4650	0.4867
0.5075	0.5275	0.5469	0.5656	0.5837
0.6013	0.6184	0.6351	0.6514	0.6673
0.6829	0.6982	0.7132	0.7279	0.7424
0.7567	0.7707	0.7846	0.7983	0.8118
0.8252	0.8384	0.8514	0.8644	0.8772
0.8899	0.9025	0.9150	0.9274	0.9397
0.9519	0.9640	0.9761	0.9881	1.0000

Width:

0.2308	0.2308	0.2308	0.2308	0.2385

0.2554	0.2723	0.2892	0.3062	0.3231
0.3400	0.3569	0.3738	0.3908	0.4077
0.4246	0.4415	0.4585	0.4754	0.4923
0.5092	0.5262	0.5431	0.5600	0.5769
0.5938	0.6108	0.6277	0.6446	0.6615
0.6785	0.6954	0.7123	0.7292	0.7462
0.7631	0.7800	0.7969	0.8138	0.8308
0.8477	0.8646	0.8815	0.8985	0.9154
0.9323	0.9492	0.9662	0.9831	1.0000

Transect channel-overflow1s
Area:

0.0018	0.0035	0.0053	0.0070	0.0088
0.0105	0.0123	0.0140	0.0160	0.0190
0.0230	0.0281	0.0342	0.0414	0.0496
0.0589	0.0693	0.0806	0.0931	0.1066
0.1211	0.1367	0.1533	0.1710	0.1898
0.2096	0.2304	0.2523	0.2753	0.2993
0.3243	0.3504	0.3776	0.4058	0.4350
0.4653	0.4967	0.5291	0.5626	0.5971
0.6326	0.6693	0.7069	0.7456	0.7854
0.8262	0.8681	0.9110	0.9550	1.0000

Hrad:

0.0827	0.1607	0.2344	0.3042	0.3703
0.4331	0.4927	0.5495	0.6009	0.6143
0.6032	0.5833	0.5633	0.5469	0.5350
0.5276	0.5242	0.5241	0.5269	0.5320
0.5390	0.5476	0.5576	0.5687	0.5807
0.5936	0.6072	0.6213	0.6360	0.6511
0.6667	0.6825	0.6987	0.7152	0.7319
0.7488	0.7659	0.7832	0.8007	0.8183
0.8360	0.8539	0.8718	0.8899	0.9080
0.9263	0.9446	0.9630	0.9815	1.0000

Width:

0.0385	0.0385	0.0385	0.0385	0.0385
0.0385	0.0385	0.0385	0.0538	0.0769
0.1000	0.1231	0.1462	0.1692	0.1923
0.2154	0.2385	0.2615	0.2846	0.3077
0.3308	0.3538	0.3769	0.4000	0.4231
0.4462	0.4692	0.4923	0.5154	0.5385
0.5615	0.5846	0.6077	0.6308	0.6538
0.6769	0.7000	0.7231	0.7462	0.7692
0.7923	0.8154	0.8385	0.8615	0.8846
0.9077	0.9308	0.9538	0.9769	1.0000

Transect channel-overflow2n
Area:

0.0031	0.0061	0.0092	0.0122	0.0153
0.0183	0.0214	0.0244	0.0277	0.0319
0.0370	0.0432	0.0503	0.0584	0.0675
0.0775	0.0885	0.1005	0.1135	0.1275
0.1424	0.1583	0.1752	0.1930	0.2119
0.2317	0.2525	0.2742	0.2970	0.3207
0.3454	0.3710	0.3977	0.4253	0.4539
0.4835	0.5140	0.5455	0.5780	0.6115
0.6460	0.6814	0.7178	0.7552	0.7936
0.8329	0.8732	0.9145	0.9568	1.0000

Hrad:

0.0714	0.1405	0.2075	0.2726	0.3357
0.3969	0.4564	0.5142	0.5695	0.6043
0.6222	0.6297	0.6317	0.6311	0.6299
0.6291	0.6292	0.6306	0.6332	0.6369
0.6419	0.6479	0.6548	0.6626	0.6711
0.6804	0.6902	0.7007	0.7116	0.7229
0.7346	0.7467	0.7592	0.7719	0.7849
0.7981	0.8115	0.8252	0.8390	0.8530
0.8672	0.8815	0.8959	0.9105	0.9252
0.9400	0.9548	0.9698	0.9849	1.0000

Width:

0.0698	0.0698	0.0698	0.0698	0.0698
0.0698	0.0698	0.0698	0.0847	0.1070
0.1293	0.1516	0.1740	0.1963	0.2186
0.2409	0.2633	0.2856	0.3079	0.3302
0.3526	0.3749	0.3972	0.4195	0.4419
0.4642	0.4865	0.5088	0.5312	0.5535
0.5758	0.5981	0.6205	0.6428	0.6651
0.6874	0.7098	0.7321	0.7544	0.7767
0.7991	0.8214	0.8437	0.8660	0.8884
0.9107	0.9330	0.9553	0.9777	1.0000

Transect channel-overflow3r
Area:

0.0065	0.0130	0.0195	0.0259	0.0324
0.0389	0.0454	0.0519	0.0586	0.0659
0.0741	0.0831	0.0928	0.1033	0.1146
0.1267	0.1395	0.1531	0.1675	0.1827
0.1987	0.2154	0.2329	0.2512	0.2703
0.2901	0.3107	0.3322	0.3543	0.3773
0.4010	0.4256	0.4509	0.4769	0.5038
0.5314	0.5598	0.5890	0.6190	0.6497
0.6813	0.7136	0.7466	0.7805	0.8151
0.8506	0.8867	0.9237	0.9615	1.0000

Hrad:

0.0383	0.0761	0.1135	0.1505	0.1870
0.2231	0.2588	0.2941	0.3179	0.3344
0.3497	0.3643	0.3785	0.3926	0.4068
0.4211	0.4356	0.4503	0.4652	0.4804
0.4959	0.5115	0.5274	0.5434	0.5596
0.5760	0.5926	0.6093	0.6262	0.6432
0.6603	0.6775	0.6948	0.7123	0.7298
0.7474	0.7650	0.7828	0.8006	0.8185
0.8364	0.8544	0.8724	0.8905	0.9087
0.9269	0.9451	0.9634	0.9817	1.0000

Width:

0.1667	0.1667	0.1667	0.1667	0.1667
0.1667	0.1667	0.1667	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect street-main
Area:

0.0004	0.0014	0.0032	0.0057	0.0089
0.0128	0.0175	0.0248	0.0383	0.0546
0.0713	0.0883	0.1057	0.1235	0.1416
0.1601	0.1789	0.1981	0.2176	0.2375
0.2577	0.2783	0.2993	0.3206	0.3423
0.3643	0.3867	0.4095	0.4326	0.4560
0.4798	0.5040	0.5285	0.5534	0.5786
0.6042	0.6302	0.6565	0.6832	0.7102
0.7376	0.7653	0.7934	0.8218	0.8506

0.8798	0.9093	0.9392	0.9694	1.0000

Hrad:

0.0044	0.0089	0.0133	0.0177	0.0222
0.0266	0.0310	0.0361	0.0464	0.0709
0.0993	0.1293	0.1597	0.1901	0.2203
0.2501	0.2794	0.3083	0.3366	0.3644
0.3917	0.4185	0.4448	0.4705	0.4958
0.5205	0.5448	0.5687	0.5921	0.6150
0.6376	0.6597	0.6815	0.7028	0.7238
0.7444	0.7646	0.7845	0.8041	0.8234
0.8423	0.8610	0.8793	0.8973	0.9151
0.9326	0.9498	0.9668	0.9835	1.0000

Width:

0.0232	0.0463	0.0695	0.0927	0.1159
0.1390	0.1622	0.3377	0.5250	0.5366
0.5481	0.5597	0.5713	0.5829	0.5945
0.6061	0.6177	0.6292	0.6408	0.6524
0.6640	0.6756	0.6872	0.6988	0.7103
0.7219	0.7335	0.7451	0.7567	0.7683
0.7799	0.7914	0.8030	0.8146	0.8262
0.8378	0.8494	0.8610	0.8726	0.8841
0.8957	0.9073	0.9189	0.9305	0.9421
0.9537	0.9652	0.9768	0.9884	1.0000

Transect street-overflow

Area:

0.0013	0.0031	0.0052	0.0078	0.0108
0.0141	0.0179	0.0221	0.0267	0.0317
0.0371	0.0429	0.0492	0.0558	0.0628
0.0703	0.0781	0.0864	0.0951	0.1042
0.1136	0.1235	0.1338	0.1445	0.1557
0.1672	0.1791	0.1915	0.2042	0.2174
0.2309	0.2449	0.2593	0.2750	0.2953
0.3203	0.3501	0.3846	0.4239	0.4679
0.5150	0.5635	0.6133	0.6645	0.7170
0.7709	0.8261	0.8827	0.9407	1.0000

Hrad:

0.0251	0.0454	0.0634	0.0802	0.0963
0.1118	0.1270	0.1420	0.1568	0.1714
0.1860	0.2005	0.2149	0.2292	0.2435
0.2577	0.2720	0.2861	0.3003	0.3145
0.3286	0.3427	0.3568	0.3709	0.3849
0.3990	0.4131	0.4271	0.4411	0.4552
0.4692	0.4832	0.4972	0.4907	0.4752
0.4645	0.4602	0.4631	0.4730	0.4895
0.5265	0.5697	0.6175	0.6683	0.7213
0.7758	0.8313	0.8874	0.9437	1.0000

Width:

0.0257	0.0325	0.0392	0.0460	0.0528
0.0596	0.0664	0.0732	0.0800	0.0868
0.0936	0.1004	0.1072	0.1140	0.1208
0.1275	0.1343	0.1411	0.1479	0.1547
0.1615	0.1683	0.1751	0.1819	0.1887
0.1955	0.2023	0.2091	0.2158	0.2226
0.2294	0.2362	0.2430	0.2981	0.3774
0.4566	0.5358	0.6151	0.6943	0.7736
0.7962	0.8189	0.8415	0.8642	0.8868
0.9094	0.9321	0.9547	0.9774	1.0000

Transect largeriver

Area:

0.0049	0.0097	0.0146	0.0194	0.0243
0.0291	0.0340	0.0388	0.0437	0.0485
0.0535	0.0588	0.0644	0.0703	0.0765
0.0829	0.0897	0.0967	0.1040	0.1117
0.1204	0.1311	0.1437	0.1583	0.1748
0.1932	0.2136	0.2359	0.2602	0.2864
0.3146	0.3447	0.3767	0.4107	0.4466
0.4835	0.5204	0.5573	0.5942	0.6311
0.6680	0.7049	0.7417	0.7786	0.8155
0.8524	0.8893	0.9262	0.9631	1.0000

Hrad:

0.0621	0.1218	0.1792	0.2345	0.2878
0.3392	0.3888	0.4367	0.4829	0.5276
0.5782	0.6249	0.6681	0.7083	0.7458
0.7810	0.8140	0.8452	0.8747	0.9028
0.9102	0.9083	0.8978	0.8815	0.8620
0.8413	0.8209	0.8017	0.7841	0.7686
0.7551	0.7436	0.7341	0.7265	0.7205
0.7291	0.7407	0.7546	0.7704	0.7877
0.8061	0.8255	0.8457	0.8665	0.8879
0.9097	0.9318	0.9543	0.9771	1.0000

Width:

0.1316	0.1316	0.1316	0.1316	0.1316
0.1316	0.1316	0.1316	0.1316	0.1316
0.1395	0.1474	0.1553	0.1632	0.1711
0.1789	0.1868	0.1947	0.2026	0.2105
0.2632	0.3158	0.3684	0.4211	0.4737
0.5263	0.5789	0.6316	0.6842	0.7368
0.7895	0.8421	0.8947	0.9474	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000

Transect channel-main1a

Area:

0.0036	0.0072	0.0108	0.0144	0.0181
0.0225	0.0276	0.0336	0.0403	0.0479
0.0562	0.0653	0.0752	0.0860	0.0975
0.1098	0.1228	0.1367	0.1514	0.1669
0.1832	0.2002	0.2181	0.2367	0.2561
0.2764	0.2974	0.3192	0.3418	0.3652
0.3894	0.4144	0.4402	0.4668	0.4942
0.5223	0.5513	0.5811	0.6116	0.6430
0.6751	0.7080	0.7417	0.7762	0.8116
0.8477	0.8846	0.9222	0.9607	1.0000

Hrad:

0.0651	0.1237	0.1767	0.2250	0.2728
0.3142	0.3458	0.3710	0.3921	0.4107
0.4275	0.4433	0.4584	0.4731	0.4875
0.5018	0.5160	0.5302	0.5443	0.5585
0.5727	0.5869	0.6012	0.6156	0.6300
0.6444	0.6588	0.6734	0.6879	0.7025
0.7171	0.7318	0.7465	0.7612	0.7760
0.7908	0.8056	0.8204	0.8353	0.8502
0.8651	0.8800	0.8949	0.9099	0.9249
0.9399	0.9549	0.9699	0.9849	1.0000

Width:

0.0909	0.0909	0.0909	0.0909	0.1000
0.1200	0.1400	0.1600	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000

```
          0.8200    0.8400    0.8600    0.8800    0.9000
          0.9200    0.9400    0.9600    0.9800    1.0000

Transect channel-overflow1a
Area:
          0.0018    0.0035    0.0053    0.0070    0.0088
          0.0105    0.0123    0.0140    0.0160    0.0190
          0.0230    0.0281    0.0342    0.0414    0.0496
          0.0589    0.0693    0.0806    0.0931    0.1066
          0.1211    0.1367    0.1533    0.1710    0.1898
          0.2096    0.2304    0.2523    0.2753    0.2993
          0.3243    0.3504    0.3776    0.4058    0.4350
          0.4653    0.4967    0.5291    0.5626    0.5971
          0.6326    0.6693    0.7069    0.7456    0.7854
          0.8262    0.8681    0.9110    0.9550    1.0000
Hrad:
          0.0830    0.1612    0.2352    0.3052    0.3715
          0.4345    0.4943    0.5513    0.6028    0.6163
          0.6051    0.5851    0.5650    0.5484    0.5363
          0.5288    0.5253    0.5252    0.5278    0.5329
          0.5398    0.5484    0.5583    0.5694    0.5814
          0.5942    0.6077    0.6219    0.6365    0.6516
          0.6671    0.6830    0.6991    0.7155    0.7322
          0.7491    0.7662    0.7835    0.8009    0.8185
          0.8362    0.8540    0.8720    0.8900    0.9082
          0.9264    0.9447    0.9631    0.9815    1.0000
Width:
          0.0385    0.0385    0.0385    0.0385    0.0385
          0.0385    0.0385    0.0385    0.0538    0.0769
          0.1000    0.1231    0.1462    0.1692    0.1923
          0.2154    0.2385    0.2615    0.2846    0.3077
          0.3308    0.3538    0.3769    0.4000    0.4231
          0.4462    0.4692    0.4923    0.5154    0.5385
          0.5615    0.5846    0.6077    0.6308    0.6538
          0.6769    0.7000    0.7231    0.7462    0.7692
          0.7923    0.8154    0.8385    0.8615    0.8846
          0.9077    0.9308    0.9538    0.9769    1.0000

Transect Channel-overflow2a
Area:
          0.0031    0.0061    0.0092    0.0122    0.0153
          0.0183    0.0214    0.0244    0.0277    0.0319
          0.0370    0.0432    0.0503    0.0584    0.0675
          0.0775    0.0885    0.1005    0.1135    0.1275
          0.1424    0.1583    0.1752    0.1930    0.2119
          0.2317    0.2525    0.2742    0.2970    0.3207
          0.3454    0.3710    0.3977    0.4253    0.4539
          0.4835    0.5140    0.5455    0.5780    0.6115
          0.6460    0.6814    0.7178    0.7552    0.7936
          0.8329    0.8732    0.9145    0.9568    1.0000
Hrad:
          0.0716    0.1409    0.2081    0.2733    0.3366
          0.3980    0.4577    0.5156    0.5711    0.6060
          0.6239    0.6314    0.6333    0.6326    0.6314
          0.6305    0.6306    0.6318    0.6343    0.6381
          0.6429    0.6489    0.6558    0.6635    0.6720
          0.6812    0.6910    0.7014    0.7122    0.7235
          0.7352    0.7473    0.7597    0.7724    0.7853
          0.7985    0.8119    0.8256    0.8394    0.8533
          0.8675    0.8817    0.8961    0.9107    0.9253
          0.9401    0.9549    0.9699    0.9849    1.0000
Width:
          0.0698    0.0698    0.0698    0.0698    0.0698
          0.0698    0.0698    0.0698    0.0847    0.1070
          0.1293    0.1516    0.1740    0.1963    0.2186
          0.2409    0.2633    0.2856    0.3079    0.3302
          0.3526    0.3749    0.3972    0.4195    0.4419
          0.4642    0.4865    0.5088    0.5312    0.5535
          0.5758    0.5981    0.6205    0.6428    0.6651
          0.6874    0.7098    0.7321    0.7544    0.7767
          0.7991    0.8214    0.8437    0.8660    0.8884
          0.9107    0.9330    0.9553    0.9777    1.0000

**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......       195.846         1.688
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........       166.781         1.437
Surface Runoff ...........        28.121         0.242
Final Surface Storage ....         1.203         0.010
Continuity Error (%) .....        -0.132


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      10^6 gal
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......        28.121         9.164
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........        28.857         9.403
Internal Outflow .........         0.000         0.000
Storage Losses ...........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         0.021         0.007
Continuity Error (%) .....        -2.694


********************************
Highest Flow Instability Indexes
********************************
Link C7 (7)
Link C2 (5)
Link C14 (5)
Link C10 (4)
Link C11 (4)


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :   300.00 sec
Average Time Step           :   300.00 sec
Maximum Time Step           :   300.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.05


***************************
Subcatchment Runoff Summary
***************************
```

Subcatchment	Total Precip in	Total Runon in	Total Evap in	Total Infil in	Total Runoff in	Total Runoff 10^6 gal	Peak Runoff CFS	Runoff Coeff
TS07	1.69	0.00	0.00	1.43	0.25	0.65	49.35	0.147
TS05	1.69	0.00	0.00	1.39	0.28	1.55	110.01	0.168
TS06	1.69	0.00	0.00	1.57	0.11	1.88	141.42	0.065
TS09	1.69	0.00	0.00	1.18	0.49	0.68	48.41	0.291
TS01	1.69	0.00	0.00	0.23	1.40	1.32	97.75	0.827
TS02	1.69	0.00	0.00	0.30	1.32	0.22	19.91	0.785
TS03	1.69	0.00	0.00	1.39	0.30	0.38	18.10	0.175
TS04	1.69	0.00	0.00	1.37	0.32	0.61	32.47	0.187
TS08	1.69	0.00	0.00	1.27	0.41	0.72	40.78	0.244
TS10	1.69	0.00	0.00	0.74	0.91	0.21	18.08	0.540
TS11	1.69	0.00	0.00	1.48	0.20	0.95	44.19	0.119

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min
J-TS07	JUNCTION	0.06	1.56	6707.56	0 00:35
J-TS09	JUNCTION	0.06	1.47	6719.47	0 00:35
J-TS04	JUNCTION	0.31	5.25	6672.25	0 00:45
J-TS02	JUNCTION	0.03	0.88	6693.88	0 00:35
J-TS08	JUNCTION	0.04	1.02	6703.02	0 00:35
J-TS06	JUNCTION	0.14	3.00	6695.00	0 00:35
J-TS05	JUNCTION	0.21	3.99	6677.99	0 00:40
J1	JUNCTION	0.03	0.71	6670.71	0 00:50
J2	JUNCTION	0.03	0.75	6678.75	0 00:45
J3	JUNCTION	0.03	0.81	6686.81	0 00:40
J4	JUNCTION	0.26	3.87	6669.54	0 00:45
J5	JUNCTION	0.04	0.99	6686.99	0 00:35
J-TS01	JUNCTION	0.22	3.84	6665.84	0 00:50
J-TS10	JUNCTION	0.06	1.43	6715.43	0 00:35
1	JUNCTION	0.09	1.32	6687.32	0 00:50
J6	OUTFALL	0.10	1.26	6659.26	0 01:15
J-TS03	DIVIDER	0.32	5.23	6671.23	0 00:45

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal
J-TS07	JUNCTION	49.35	49.35	0 00:35	0.655	0.655
J-TS09	JUNCTION	48.41	48.41	0 00:35	0.677	0.677
J-TS04	JUNCTION	32.47	261.33	0 00:45	0.606	4.694
J-TS02	JUNCTION	19.91	19.91	0 00:35	0.220	0.220
J-TS08	JUNCTION	40.78	40.78	0 00:35	0.716	0.716
J-TS06	JUNCTION	141.42	179.02	0 00:35	1.884	2.539
J-TS05	JUNCTION	110.01	256.44	0 00:40	1.547	4.087
J1	JUNCTION	0.00	14.24	0 00:50	0.000	0.225
J2	JUNCTION	0.00	15.82	0 00:45	0.000	0.223
J3	JUNCTION	0.00	17.66	0 00:40	0.000	0.221
J4	JUNCTION	0.00	271.03	0 00:45	0.000	5.071
J5	JUNCTION	44.19	83.25	0 00:35	0.955	1.671
J-TS01	JUNCTION	97.75	321.32	0 00:50	1.317	6.616
J-TS10	JUNCTION	18.08	63.84	0 00:35	0.208	0.886
1	JUNCTION	0.00	94.40	0 00:50	0.000	2.674
J6	OUTFALL	0.00	378.05	0 00:50	0.000	9.403
J-TS03	DIVIDER	18.10	272.82	0 00:45	0.377	5.071

****
Node Surcharge Summary
****

No nodes were surcharged.

****
Node Flooding Summary
****

No nodes were flooded.

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume 10^6 gal
J6	99.65	14.55	378.05	9.403
System	99.65	14.55	378.05	9.403

****
Link Flow Summary
****

	Maximum |Flow|	Time of Max Occurrence	Maximum |Veloc|	Max/ Full	Max/ Full

Link	Type	CFS	days	hr:min	ft/sec	Flow	Depth
C1	CHANNEL	45.77	0	00:35	5.03	0.04	0.26
C2	CHANNEL	39.06	0	00:35	7.86	0.02	0.18
C3	CHANNEL	43.45	0	00:40	5.01	0.05	0.27
C4	CHANNEL	165.43	0	00:40	5.27	0.21	0.51
C5	CHANNEL	237.89	0	00:45	4.18	0.42	0.71
C6	CHANNEL	257.80	0	00:45	2.45	0.88	0.95
C7	CONDUIT	22.36	0	00:35	4.13	0.77	0.63
C8	CHANNEL	17.66	0	00:40	2.95	0.01	0.13
C9	CHANNEL	15.82	0	00:45	2.87	0.01	0.12
C10	CHANNEL	14.24	0	00:50	2.68	0.01	0.11
C11	CHANNEL	13.04	0	00:55	2.61	0.01	0.10
C12	CHANNEL	248.90	0	00:45	4.29	0.07	0.34
C13	CHANNEL	267.24	0	00:50	4.51	0.42	0.70
C14	DUMMY	321.32	0	00:50			
C15	CHANNEL	87.68	0	01:15	3.82	0.02	0.12
C16	CHANNEL	31.37	0	01:00	2.86	0.01	0.07
1	DUMMY	83.25	0	00:35			

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C14	0.01	0.01	0.01	24.08	0.01
1	0.01	0.01	0.01	24.08	0.01

Analysis begun on: Thu Dec 27 12:55:28 2012
Analysis ended on: Thu Dec 27 12:55:28 2012
Total elapsed time: < 1 sec

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.022)

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... KINWAVE
Starting Date JUL-24-2012 00:00:00
Ending Date JUL-25-2012 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 300.00 sec

WARNING 04: minimum elevation drop used for Conduit C14

WARNING 04: minimum elevation drop used for Conduit C19

WARNING 04: minimum elevation drop used for Conduit C24

****
Element Count
****
Number of rain gages 3
Number of subcatchments ... 37
Number of nodes 39
Number of links 38
Number of pollutants 0
Number of land uses 0

****
Raingage Summary
****

Name	Data Source	Data Type	Recording Interval
rg100	SCS_24h_Type_II_2.8in	INTENSITY	15 min.
UDFCD100	UDFCD100	VOLUME	5 min.
UDFCD5	Timeseries1	VOLUME	5 min.

****
Subcatchment Summary
****

Name	Area	Width	%Imperv	%Slope	Rain Gage	Outlet
FI02	14.86	2303.52	94.70	2.3616	UDFCD100	J-FI02
FI13	38.43	5397.57	32.30	8.4038	UDFCD100	J-FI13
FI26	36.56	3985.99	18.70	20.2158	UDFCD100	J-FI26
FI30	63.43	5111.70	13.20	23.9451	UDFCD100	J-FI30
FI35	195.54	10513.80	2.80	26.6013	UDFCD100	J-FI35
FI33	34.99	5284.06	35.40	12.6418	UDFCD100	J-FI33
FI37	16453.10	57049.20	2.65	8.2455	UDFCD100	J-FI37
FI31	197.29	4411.14	3.60	26.3197	UDFCD100	J-FI31
FI23	40.58	5394.58	22.20	19.6494	UDFCD100	J-FI23
FI24	46.68	4158.40	29.10	20.9696	UDFCD100	J-FI24
FI22	70.40	3641.14	24.40	16.7969	UDFCD100	J-FI22
FI16	41.36	3770.45	31.00	15.2979	UDFCD100	J-FI16
FI18	10.92	3271.27	25.10	20.3285	UDFCD100	J-FI18
FI25	21.38	2715.82	18.20	13.3661	UDFCD100	J-FI25
FI34	66.87	3800.12	9.30	24.1255	UDFCD100	J-FI34
FI27	38.57	4048.31	6.70	27.7894	UDFCD100	J-FI27
FI28	23.85	1355.57	16.60	23.0456	UDFCD100	J-FI28
FI12	31.69	4837.24	31.00	8.1865	UDFCD100	J-FI12
FI11	15.95	3889.66	19.90	9.6667	UDFCD100	J-FI11
FI09	16.95	2144.87	33.20	7.3851	UDFCD100	J-FI09
FI08	13.48	3054.56	27.60	8.0142	UDFCD100	J-FI08
FI32	73.46	4566.27	49.40	15.6364	UDFCD100	J-FI32
FI36	72.01	5910.04	3.70	19.7393	UDFCD100	J-FI36
FI19	6.75	2035.28	28.20	9.2371	UDFCD100	J-FI19
FI20	12.05	3226.25	17.90	18.4115	UDFCD100	J-FI20
FI07	24.81	3351.01	39.20	6.6010	UDFCD100	J-FI07
FI29	18.68	1525.09	19.70	26.9754	UDFCD100	J-FI29
FI01	13.34	1689.70	85.00	3.0301	UDFCD100	J-FI01
FI03	18.72	1988.44	48.00	10.3800	UDFCD100	J-FI03
FI04	19.45	2543.69	33.20	6.0542	UDFCD100	J-FI04
FI06	13.05	2424.26	30.20	6.3855	UDFCD100	J-FI06
FI05	16.58	4175.24	39.30	5.4320	UDFCD100	J-FI05
FI17	8.12	1639.58	29.30	22.9449	UDFCD100	J-FI17
FI14	19.37	2088.10	26.20	9.1949	UDFCD100	J-FI14
FI10	18.46	3500.83	33.10	9.4378	UDFCD100	J-FI10
FI21	26.78	3962.68	20.00	21.2886	UDFCD100	J-FI21
FI15	34.60	4710.80	31.00	15.0123	UDFCD100	J-FI15

****
Node Summary
****

Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
J-FI36	JUNCTION	7306.00	5.50	0.0	
J-FI37	JUNCTION	7360.00	6.00	0.0	
J-FI35	JUNCTION	7328.00	6.00	0.0	
J-FI33	JUNCTION	7276.00	6.00	0.0	
J-FI34	JUNCTION	7276.00	6.00	0.0	
J-FI27	JUNCTION	7250.00	5.50	0.0	
J-FI31	JUNCTION	7186.00	6.00	0.0	
J-FI29	JUNCTION	7144.00	7.00	0.0	
J-FI18	JUNCTION	7120.00	6.00	0.0	
J-FI20	JUNCTION	7193.00	6.00	0.0	
J-FI19	JUNCTION	7194.00	5.50	0.0	
J-FI26	JUNCTION	7206.00	5.50	0.0	
J-FI25	JUNCTION	7207.00	5.50	0.0	
J-FI16	JUNCTION	6996.00	6.00	0.0	

J-FI32	JUNCTION	7164.00	6.00	0.0
J-FI30	JUNCTION	7144.00	7.00	0.0
J-FI23	JUNCTION	7101.00	6.00	0.0
J-FI24	JUNCTION	7100.00	6.00	0.0
J-FI03	JUNCTION	6784.00	6.00	0.0
J-FI02	JUNCTION	6764.00	6.00	0.0
J-FI06	JUNCTION	6890.00	3.00	0.0
J-FI07	JUNCTION	6940.00	6.00	0.0
J-FI08	JUNCTION	6850.00	6.00	0.0
J-FI05	JUNCTION	6810.00	6.00	0.0
J-FI04	JUNCTION	6816.00	6.00	0.0
J-FI17	JUNCTION	7098.00	3.00	0.0
J-FI09	JUNCTION	6848.00	6.00	0.0
J-FI11	JUNCTION	6888.00	6.00	0.0
J-FI10	JUNCTION	6886.00	6.00	0.0
J-FI14	JUNCTION	7020.00	6.00	0.0
J-FI12	JUNCTION	6928.00	6.00	0.0
J-FI13	JUNCTION	6926.00	6.00	0.0
J-FI21	JUNCTION	7054.00	6.00	0.0
J-FI15	JUNCTION	6994.00	6.00	0.0
J-FI22	JUNCTION	7054.00	6.00	0.0
J-FI28	JUNCTION	7251.00	5.50	0.0
J1	JUNCTION	6907.00	6.00	0.0
J2	JUNCTION	7273.00	6.00	0.0
J-FI01	OUTFALL	6742.00	6.00	0.0

****
Link Summary
****

Name	From Node	To Node	Type	Length	%Slope	Roughness
C1	J-FI02	J-FI01	CONDUIT	1138.2	1.9333	0.0375
C2	J-FI03	J-FI02	CONDUIT	1122.5	1.7821	0.0375
C3	J-FI05	J-FI03	CONDUIT	1048.9	2.4795	0.0375
C4	J-FI04	J-FI05	CONDUIT	218.1	2.7519	0.0375
C5	J-FI09	J-FI05	CONDUIT	1663.9	2.2844	0.0375
C6	J-FI08	J-FI09	CONDUIT	32.7	6.1220	0.0100
C7	J-FI10	J-FI08	CONDUIT	1125.4	3.2005	0.0375
C8	J-FI11	J-FI10	CONDUIT	35.2	5.6943	0.0100
C9	J-FI13	J1	CONDUIT	400.0	4.7557	0.0375
C10	J-FI12	J-FI13	CONDUIT	23.9	8.4047	0.0100
C11	J-FI16	J-FI15	CONDUIT	27.3	7.3512	0.0100
C12	J-FI15	J-FI12	CONDUIT	1690.3	3.9076	0.0375
C13	J-FI22	J-FI16	CONDUIT	1600.8	3.6256	0.0375
C14	J-FI21	J-FI22	CONDUIT	28.5	0.0035	0.0100
C15	J-FI24	J-FI21	CONDUIT	1380.1	3.3349	0.0375
C16	J-FI23	J-FI24	CONDUIT	25.1	3.9952	0.0375
C17	J-FI29	J-FI23	CONDUIT	1473.3	2.9199	0.0375
C18	J-FI32	J-FI29	CONDUIT	438.9	4.5617	0.0375
C19	J-FI30	J-FI29	CONDUIT	295.4	0.0003	0.0187
C20	J-FI31	J-FI29	CONDUIT	1436.4	2.9253	0.0375
C22	J-FI35	J-FI34	CONDUIT	1606.8	3.2379	0.0730
C23	J-FI36	J-FI34	CONDUIT	1218.8	2.4621	0.0375
C24	J-FI33	J-FI34	CONDUIT	231.8	0.0004	0.0375
C25	J-FI34	J-FI28	CONDUIT	1280.7	1.9524	0.0375
C26	J-FI28	J-FI27	CONDUIT	22.6	4.4350	0.0100
C27	J-FI27	J-FI25	CONDUIT	1448.5	2.9699	0.0375
C28	J-FI25	J-FI26	CONDUIT	51.5	1.9414	0.0100
C29	J-FI26	J-FI19	CONDUIT	515.3	2.3292	0.0375
C30	J-FI19	J-FI20	CONDUIT	9.3	10.8508	0.0100
C31	J-FI20	J-FI18	CONDUIT	676.5	10.8545	0.0730
C32	J-FI18	J-FI16	CONDUIT	1096.2	11.3847	0.0730
C33	J-FI17	J-FI16	CONDUIT	1086.3	9.4312	0.0187
C34	J-FI07	J-FI08	CONDUIT	868.1	10.4238	0.0730
C35	J-FI06	J-FI04	CONDUIT	1470.3	5.0394	0.0187
C36	J1	J-FI11	CONDUIT	623.4	3.0494	0.0375
C37	J-FI14	J1	CONDUIT	1177.2	9.6435	0.0730
C38	J-FI37	J2	CONDUIT	1435.0	6.0741	0.0375
C39	J2	J-FI31	CONDUIT	1658.9	5.2516	0.0375

****
Cross Section Summary
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Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
C1	channel-overflow3r	6.00	740.00	1.44	240.00	1	5203.96
C2	channel-overflow3r	6.00	740.00	1.44	240.00	1	4996.27
C3	channel-overflow3r	6.00	740.00	1.44	240.00	1	5893.40
C4	channel-overflow1s	6.00	548.00	1.40	208.00	1	4515.32
C5	channel-overflow3r	6.00	740.00	1.44	240.00	1	5656.78
C6	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C7	channel-overflow3r	6.00	740.00	1.44	240.00	1	6695.65
C8	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C9	channel-overflow3r	6.00	740.00	1.44	240.00	1	8161.96
C10	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C11	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C12	channel-overflow3r	6.00	740.00	1.44	240.00	1	7398.49
C13	channel-overflow3r	6.00	740.00	1.44	240.00	1	7126.51
C14	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C15	channel-overflow3r	6.00	740.00	1.44	240.00	1	6834.84
C16	channel-overflow3r	6.00	740.00	1.44	240.00	1	7480.92
C17	channel-overflow3r	6.00	740.00	1.44	240.00	1	6395.48
C18	channel-overflow3r	6.00	740.00	1.44	240.00	1	7993.72
C19	street-main	7.00	329.94	2.45	72.50	1	87.47
C20	channel-overflow3r	6.00	740.00	1.44	240.00	1	6401.31
C22	channel-overflow1a	6.00	548.00	1.40	208.00	1	2510.46
C23	channel-main2nd	5.50	144.00	2.08	48.00	1	1457.62
C24	channel-overflow2n	6.00	590.00	1.65	215.00	1	67.76
C25	channel-main2nd	5.50	144.00	2.08	48.00	1	1297.99
C26	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C27	channel-main2nd	5.50	144.00	2.08	48.00	1	1600.88
C28	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C29	channel-main2nd	5.50	144.00	2.08	48.00	1	1417.72
C30	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C31	Channel-overflow2a	6.00	590.00	1.64	215.00	1	5511.52
C32	Channel-overflow2a	6.00	590.00	1.64	215.00	1	5644.51
C33	street-overflow	3.00	106.00	0.33	106.00	1	1243.09
C34	channel-overflow1a	6.00	548.00	1.40	208.00	1	4504.40
C35	street-overflow	3.00	106.00	0.33	106.00	1	908.68
C36	channel-overflow3r	6.00	740.00	1.44	240.00	1	6535.68
C37	Channel-overflow2a	6.00	590.00	1.64	215.00	1	5194.97
C38	channel-overflow3r	6.00	740.00	1.44	240.00	1	9224.16
C39	channel-overflow3r	6.00	740.00	1.44	240.00	1	8576.93

****
Transect Summary
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Transect channel-main1st
Area:
0.0036 0.0072 0.0108 0.0144 0.0181

0.0225	0.0276	0.0336	0.0403	0.0479
0.0562	0.0653	0.0752	0.0860	0.0975
0.1098	0.1228	0.1367	0.1514	0.1669
0.1832	0.2002	0.2181	0.2367	0.2561
0.2764	0.2974	0.3192	0.3418	0.3652
0.3894	0.4144	0.4402	0.4668	0.4942
0.5223	0.5513	0.5811	0.6116	0.6430
0.6751	0.7080	0.7417	0.7762	0.8116
0.8477	0.8846	0.9222	0.9607	1.0000

Hrad:

0.0649	0.1233	0.1763	0.2244	0.2721
0.3133	0.3449	0.3701	0.3912	0.4097
0.4266	0.4424	0.4575	0.4722	0.4866
0.5009	0.5152	0.5294	0.5435	0.5577
0.5720	0.5863	0.6006	0.6149	0.6293
0.6438	0.6583	0.6728	0.6874	0.7020
0.7167	0.7314	0.7461	0.7608	0.7756
0.7904	0.8053	0.8201	0.8350	0.8499
0.8649	0.8798	0.8948	0.9098	0.9248
0.9398	0.9548	0.9699	0.9849	1.0000

Width:

0.0909	0.0909	0.0909	0.0909	0.1000
0.1200	0.1400	0.1600	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect channel-main2nd

Area:

0.0061	0.0122	0.0183	0.0244	0.0306
0.0374	0.0448	0.0529	0.0617	0.0711
0.0812	0.0920	0.1035	0.1156	0.1284
0.1419	0.1560	0.1708	0.1863	0.2025
0.2193	0.2368	0.2550	0.2739	0.2934
0.3136	0.3345	0.3560	0.3782	0.4011
0.4247	0.4489	0.4738	0.4994	0.5256
0.5525	0.5801	0.6084	0.6373	0.6669
0.6972	0.7282	0.7598	0.7921	0.8251
0.8587	0.8930	0.9280	0.9637	1.0000

Hrad:

0.0513	0.1000	0.1462	0.1901	0.2337
0.2746	0.3105	0.3427	0.3717	0.3983
0.4229	0.4458	0.4673	0.4876	0.5070
0.5256	0.5434	0.5607	0.5774	0.5937
0.6095	0.6251	0.6403	0.6552	0.6699
0.6844	0.6987	0.7128	0.7267	0.7406
0.7542	0.7678	0.7813	0.7946	0.8079
0.8211	0.8342	0.8473	0.8603	0.8732
0.8861	0.8989	0.9116	0.9244	0.9371
0.9497	0.9623	0.9749	0.9875	1.0000

Width:

0.1667	0.1667	0.1667	0.1667	0.1750
0.1933	0.2117	0.2300	0.2483	0.2667
0.2850	0.3033	0.3217	0.3400	0.3583
0.3767	0.3950	0.4133	0.4317	0.4500
0.4683	0.4867	0.5050	0.5233	0.5417
0.5600	0.5783	0.5967	0.6150	0.6333
0.6517	0.6700	0.6883	0.7067	0.7250
0.7433	0.7617	0.7800	0.7983	0.8167
0.8350	0.8533	0.8717	0.8900	0.9083
0.9267	0.9450	0.9633	0.9817	1.0000

Transect channel-main3rd

Area:

0.0080	0.0159	0.0239	0.0318	0.0398
0.0483	0.0574	0.0671	0.0774	0.0882
0.0996	0.1116	0.1242	0.1374	0.1511
0.1655	0.1804	0.1959	0.2120	0.2287
0.2459	0.2638	0.2822	0.3012	0.3208
0.3410	0.3617	0.3830	0.4050	0.4275
0.4506	0.4742	0.4985	0.5233	0.5487
0.5747	0.6013	0.6285	0.6562	0.6846
0.7135	0.7430	0.7731	0.8037	0.8350
0.8668	0.8993	0.9323	0.9658	1.0000

Hrad:

0.0437	0.0859	0.1267	0.1660	0.2052
0.2427	0.2773	0.3093	0.3392	0.3672
0.3936	0.4186	0.4424	0.4650	0.4867
0.5075	0.5275	0.5469	0.5656	0.5837
0.6013	0.6184	0.6351	0.6514	0.6673
0.6829	0.6982	0.7132	0.7279	0.7424
0.7567	0.7707	0.7846	0.7983	0.8118
0.8252	0.8384	0.8514	0.8644	0.8772
0.8899	0.9025	0.9150	0.9274	0.9397
0.9519	0.9640	0.9761	0.9881	1.0000

Width:

0.2308	0.2308	0.2308	0.2308	0.2385
0.2554	0.2723	0.2892	0.3062	0.3231
0.3400	0.3569	0.3738	0.3908	0.4077
0.4246	0.4415	0.4585	0.4754	0.4923
0.5092	0.5262	0.5431	0.5600	0.5769
0.5938	0.6108	0.6277	0.6446	0.6615
0.6785	0.6954	0.7123	0.7292	0.7462
0.7631	0.7800	0.7969	0.8138	0.8308
0.8477	0.8646	0.8815	0.8985	0.9154
0.9323	0.9492	0.9662	0.9831	1.0000

Transect channel-overflow1s

Area:

0.0018	0.0035	0.0053	0.0070	0.0088
0.0105	0.0123	0.0140	0.0160	0.0190
0.0230	0.0281	0.0342	0.0414	0.0496
0.0589	0.0693	0.0806	0.0931	0.1066
0.1211	0.1367	0.1533	0.1710	0.1898
0.2096	0.2304	0.2523	0.2753	0.2993
0.3243	0.3504	0.3776	0.4058	0.4350
0.4653	0.4967	0.5291	0.5626	0.5971
0.6326	0.6693	0.7069	0.7456	0.7854
0.8262	0.8681	0.9110	0.9550	1.0000

Hrad:

0.0827	0.1607	0.2344	0.3042	0.3703
0.4331	0.4927	0.5495	0.6009	0.6143
0.6032	0.5833	0.5633	0.5469	0.5350
0.5276	0.5242	0.5241	0.5269	0.5320
0.5390	0.5476	0.5576	0.5687	0.5807
0.5936	0.6072	0.6213	0.6360	0.6511
0.6667	0.6825	0.6987	0.7152	0.7319
0.7488	0.7659	0.7832	0.8007	0.8183
0.8360	0.8539	0.8718	0.8899	0.9080
0.9263	0.9446	0.9630	0.9815	1.0000

Width:

0.0385	0.0385	0.0385	0.0385	0.0385
0.0385	0.0385	0.0385	0.0538	0.0769
0.1000	0.1231	0.1462	0.1692	0.1923
0.2154	0.2385	0.2615	0.2846	0.3077
0.3308	0.3538	0.3769	0.4000	0.4231
0.4462	0.4692	0.4923	0.5154	0.5385
0.5615	0.5846	0.6077	0.6308	0.6538
0.6769	0.7000	0.7231	0.7462	0.7692
0.7923	0.8154	0.8385	0.8615	0.8846
0.9077	0.9308	0.9538	0.9769	1.0000

Transect channel-overflow2n
Area:

0.0031	0.0061	0.0092	0.0122	0.0153
0.0183	0.0214	0.0244	0.0277	0.0319
0.0370	0.0432	0.0503	0.0584	0.0675
0.0775	0.0885	0.1005	0.1135	0.1275
0.1424	0.1583	0.1752	0.1930	0.2119
0.2317	0.2525	0.2742	0.2970	0.3207
0.3454	0.3710	0.3977	0.4253	0.4539
0.4835	0.5140	0.5455	0.5780	0.6115
0.6460	0.6814	0.7178	0.7552	0.7936
0.8329	0.8732	0.9145	0.9568	1.0000

Hrad:

0.0714	0.1405	0.2075	0.2726	0.3357
0.3969	0.4564	0.5142	0.5695	0.6043
0.6222	0.6297	0.6317	0.6311	0.6299
0.6291	0.6292	0.6306	0.6332	0.6369
0.6419	0.6479	0.6548	0.6626	0.6711
0.6804	0.6902	0.7007	0.7116	0.7229
0.7346	0.7467	0.7592	0.7719	0.7849
0.7981	0.8115	0.8252	0.8390	0.8530
0.8672	0.8815	0.8959	0.9105	0.9252
0.9400	0.9548	0.9698	0.9849	1.0000

Width:

0.0698	0.0698	0.0698	0.0698	0.0698
0.0698	0.0698	0.0698	0.0847	0.1070
0.1293	0.1516	0.1740	0.1963	0.2186
0.2409	0.2633	0.2856	0.3079	0.3302
0.3526	0.3749	0.3972	0.4195	0.4419
0.4642	0.4865	0.5088	0.5312	0.5535
0.5758	0.5981	0.6205	0.6428	0.6651
0.6874	0.7098	0.7321	0.7544	0.7767
0.7991	0.8214	0.8437	0.8660	0.8884
0.9107	0.9330	0.9553	0.9777	1.0000

Transect channel-overflow3r
Area:

0.0065	0.0130	0.0195	0.0259	0.0324
0.0389	0.0454	0.0519	0.0586	0.0659
0.0741	0.0831	0.0928	0.1033	0.1146
0.1267	0.1395	0.1531	0.1675	0.1827
0.1987	0.2154	0.2329	0.2512	0.2703
0.2901	0.3107	0.3322	0.3543	0.3773
0.4010	0.4256	0.4509	0.4769	0.5038
0.5314	0.5598	0.5890	0.6190	0.6497
0.6813	0.7136	0.7466	0.7805	0.8151
0.8506	0.8867	0.9237	0.9615	1.0000

Hrad:

0.0383	0.0761	0.1135	0.1505	0.1870
0.2231	0.2588	0.2941	0.3179	0.3344
0.3497	0.3643	0.3785	0.3926	0.4068
0.4211	0.4356	0.4503	0.4652	0.4804
0.4959	0.5115	0.5274	0.5434	0.5596
0.5760	0.5926	0.6093	0.6262	0.6432
0.6603	0.6775	0.6948	0.7123	0.7298
0.7474	0.7650	0.7828	0.8006	0.8185
0.8364	0.8544	0.8724	0.8905	0.9087
0.9269	0.9451	0.9634	0.9817	1.0000

Width:

0.1667	0.1667	0.1667	0.1667	0.1667
0.1667	0.1667	0.1667	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect street-main
Area:

0.0004	0.0014	0.0032	0.0057	0.0089
0.0128	0.0175	0.0248	0.0383	0.0546
0.0713	0.0883	0.1057	0.1235	0.1416
0.1601	0.1789	0.1981	0.2176	0.2375
0.2577	0.2783	0.2993	0.3206	0.3423
0.3643	0.3867	0.4095	0.4326	0.4560
0.4798	0.5040	0.5285	0.5534	0.5786
0.6042	0.6302	0.6565	0.6832	0.7102
0.7376	0.7653	0.7934	0.8218	0.8506
0.8798	0.9093	0.9392	0.9694	1.0000

Hrad:

0.0044	0.0089	0.0133	0.0177	0.0222
0.0266	0.0310	0.0361	0.0464	0.0709
0.0993	0.1293	0.1597	0.1901	0.2203
0.2501	0.2794	0.3083	0.3366	0.3644
0.3917	0.4185	0.4448	0.4705	0.4958
0.5205	0.5448	0.5687	0.5921	0.6150
0.6376	0.6597	0.6815	0.7028	0.7238
0.7444	0.7646	0.7845	0.8041	0.8234
0.8423	0.8610	0.8793	0.8973	0.9151
0.9326	0.9498	0.9668	0.9835	1.0000

Width:

0.0232	0.0463	0.0695	0.0927	0.1159
0.1390	0.1622	0.3377	0.5250	0.5366
0.5481	0.5597	0.5713	0.5829	0.5945
0.6061	0.6177	0.6292	0.6408	0.6524
0.6640	0.6756	0.6872	0.6988	0.7103
0.7219	0.7335	0.7451	0.7567	0.7683
0.7799	0.7914	0.8030	0.8146	0.8262
0.8378	0.8494	0.8610	0.8726	0.8841
0.8957	0.9073	0.9189	0.9305	0.9421
0.9537	0.9652	0.9768	0.9884	1.0000

Transect street-overflow
Area:

0.0013	0.0031	0.0052	0.0078	0.0108
0.0141	0.0179	0.0221	0.0267	0.0317
0.0371	0.0429	0.0492	0.0558	0.0628
0.0703	0.0781	0.0864	0.0951	0.1042
0.1136	0.1235	0.1338	0.1445	0.1557
0.1672	0.1791	0.1915	0.2042	0.2174
0.2309	0.2449	0.2593	0.2750	0.2953
0.3203	0.3501	0.3846	0.4239	0.4679

0.5150	0.5635	0.6133	0.6645	0.7170
0.7709	0.8261	0.8827	0.9407	1.0000

Hrad:

0.0251	0.0454	0.0634	0.0802	0.0963
0.1118	0.1270	0.1420	0.1568	0.1714
0.1860	0.2005	0.2149	0.2292	0.2435
0.2577	0.2720	0.2861	0.3003	0.3145
0.3286	0.3427	0.3568	0.3709	0.3849
0.3990	0.4131	0.4271	0.4411	0.4552
0.4692	0.4832	0.4972	0.4907	0.4752
0.4645	0.4602	0.4631	0.4730	0.4895
0.5265	0.5697	0.6175	0.6683	0.7213
0.7758	0.8313	0.8874	0.9437	1.0000

Width:

0.0257	0.0325	0.0392	0.0460	0.0528
0.0596	0.0664	0.0732	0.0800	0.0868
0.0936	0.1004	0.1072	0.1140	0.1208
0.1275	0.1343	0.1411	0.1479	0.1547
0.1615	0.1683	0.1751	0.1819	0.1887
0.1955	0.2023	0.2091	0.2158	0.2226
0.2294	0.2362	0.2430	0.2981	0.3774
0.4566	0.5358	0.6151	0.6943	0.7736
0.7962	0.8189	0.8415	0.8642	0.8868
0.9094	0.9321	0.9547	0.9774	1.0000

Transect largeriver

Area:

0.0049	0.0097	0.0146	0.0194	0.0243
0.0291	0.0340	0.0388	0.0437	0.0485
0.0535	0.0588	0.0644	0.0703	0.0765
0.0829	0.0897	0.0967	0.1040	0.1117
0.1204	0.1311	0.1437	0.1583	0.1748
0.1932	0.2136	0.2359	0.2602	0.2864
0.3146	0.3447	0.3767	0.4107	0.4466
0.4835	0.5204	0.5573	0.5942	0.6311
0.6680	0.7049	0.7417	0.7786	0.8155
0.8524	0.8893	0.9262	0.9631	1.0000

Hrad:

0.0416	0.0815	0.1200	0.1570	0.1927
0.2271	0.2603	0.2924	0.3233	0.3533
0.3872	0.4188	0.4485	0.4766	0.5033
0.5289	0.5535	0.5773	0.6003	0.6227
0.6276	0.6293	0.6271	0.6222	0.6161
0.6098	0.6041	0.5996	0.5963	0.5945
0.5942	0.5953	0.5977	0.6013	0.6061
0.6260	0.6479	0.6713	0.6959	0.7214
0.7476	0.7745	0.8018	0.8294	0.8574
0.8856	0.9140	0.9426	0.9712	1.0000

Width:

0.1316	0.1316	0.1316	0.1316	0.1316
0.1316	0.1316	0.1316	0.1316	0.1316
0.1395	0.1474	0.1553	0.1632	0.1711
0.1789	0.1868	0.1947	0.2026	0.2105
0.2632	0.3158	0.3684	0.4211	0.4737
0.5263	0.5789	0.6316	0.6842	0.7368
0.7895	0.8421	0.8947	0.9474	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000

Transect channel-main1a

Area:

0.0036	0.0072	0.0108	0.0144	0.0181
0.0225	0.0276	0.0336	0.0403	0.0479
0.0562	0.0653	0.0752	0.0860	0.0975
0.1098	0.1228	0.1367	0.1514	0.1669
0.1832	0.2002	0.2181	0.2367	0.2561
0.2764	0.2974	0.3192	0.3418	0.3652
0.3894	0.4144	0.4402	0.4668	0.4942
0.5223	0.5513	0.5811	0.6116	0.6430
0.6751	0.7080	0.7417	0.7762	0.8116
0.8477	0.8846	0.9222	0.9607	1.0000

Hrad:

0.0651	0.1237	0.1767	0.2250	0.2728
0.3142	0.3458	0.3710	0.3921	0.4107
0.4275	0.4433	0.4584	0.4731	0.4875
0.5018	0.5160	0.5302	0.5443	0.5585
0.5727	0.5869	0.6012	0.6156	0.6300
0.6444	0.6588	0.6734	0.6879	0.7025
0.7171	0.7318	0.7465	0.7612	0.7760
0.7908	0.8056	0.8204	0.8353	0.8502
0.8651	0.8800	0.8949	0.9099	0.9249
0.9399	0.9549	0.9699	0.9849	1.0000

Width:

0.0909	0.0909	0.0909	0.0909	0.1000
0.1200	0.1400	0.1600	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect channel-overflow1a

Area:

0.0018	0.0035	0.0053	0.0070	0.0088
0.0105	0.0123	0.0140	0.0160	0.0190
0.0230	0.0281	0.0342	0.0414	0.0496
0.0589	0.0693	0.0806	0.0931	0.1066
0.1211	0.1367	0.1533	0.1710	0.1898
0.2096	0.2304	0.2523	0.2753	0.2993
0.3243	0.3504	0.3776	0.4058	0.4350
0.4653	0.4967	0.5291	0.5626	0.5971
0.6326	0.6693	0.7069	0.7456	0.7854
0.8262	0.8681	0.9110	0.9550	1.0000

Hrad:

0.0830	0.1612	0.2352	0.3052	0.3715
0.4345	0.4943	0.5513	0.6028	0.6163
0.6051	0.5851	0.5650	0.5484	0.5363
0.5288	0.5253	0.5252	0.5278	0.5329
0.5398	0.5484	0.5583	0.5694	0.5814
0.5942	0.6077	0.6219	0.6365	0.6516
0.6671	0.6830	0.6991	0.7155	0.7322
0.7491	0.7662	0.7835	0.8009	0.8185
0.8362	0.8540	0.8720	0.8900	0.9082
0.9264	0.9447	0.9631	0.9815	1.0000

Width:

0.0385	0.0385	0.0385	0.0385	0.0385
0.0385	0.0385	0.0385	0.0538	0.0769
0.1000	0.1231	0.1462	0.1692	0.1923
0.2154	0.2385	0.2615	0.2846	0.3077
0.3308	0.3538	0.3769	0.4000	0.4231
0.4462	0.4692	0.4923	0.5154	0.5385
0.5615	0.5846	0.6077	0.6308	0.6538

```
          0.6769     0.7000     0.7231     0.7462     0.7692
          0.7923     0.8154     0.8385     0.8615     0.8846
          0.9077     0.9308     0.9538     0.9769     1.0000

Transect Channel-overflow2a
Area:
          0.0031     0.0061     0.0092     0.0122     0.0153
          0.0183     0.0214     0.0244     0.0277     0.0319
          0.0370     0.0432     0.0503     0.0584     0.0675
          0.0775     0.0885     0.1005     0.1135     0.1275
          0.1424     0.1583     0.1752     0.1930     0.2119
          0.2317     0.2525     0.2742     0.2970     0.3207
          0.3454     0.3710     0.3977     0.4253     0.4539
          0.4835     0.5140     0.5455     0.5780     0.6115
          0.6460     0.6814     0.7178     0.7552     0.7936
          0.8329     0.8732     0.9145     0.9568     1.0000
Hrad:
          0.0716     0.1409     0.2081     0.2733     0.3366
          0.3980     0.4577     0.5156     0.5711     0.6060
          0.6239     0.6314     0.6333     0.6326     0.6314
          0.6305     0.6306     0.6318     0.6343     0.6381
          0.6429     0.6489     0.6558     0.6635     0.6720
          0.6812     0.6910     0.7014     0.7122     0.7235
          0.7352     0.7473     0.7597     0.7724     0.7853
          0.7985     0.8119     0.8256     0.8394     0.8533
          0.8675     0.8817     0.8961     0.9107     0.9253
          0.9401     0.9549     0.9699     0.9849     1.0000
Width:
          0.0698     0.0698     0.0698     0.0698     0.0698
          0.0698     0.0698     0.0698     0.0847     0.1070
          0.1293     0.1516     0.1740     0.1963     0.2186
          0.2409     0.2633     0.2856     0.3079     0.3302
          0.3526     0.3749     0.3972     0.4195     0.4419
          0.4642     0.4865     0.5088     0.5312     0.5535
          0.5758     0.5981     0.6205     0.6428     0.6651
          0.6874     0.7098     0.7321     0.7544     0.7767
          0.7991     0.8214     0.8437     0.8660     0.8884
          0.9107     0.9330     0.9553     0.9777     1.0000


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......      2513.231         1.688
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........      2377.103         1.596
Surface Runoff ...........       131.977         0.089
Final Surface Storage ....         5.405         0.004
Continuity Error (%) .....        -0.050


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      10^6 gal
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......       131.977        43.007
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........       133.095        43.371
Internal Outflow .........         0.000         0.000
Storage Losses ...........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         0.077         0.025
Continuity Error (%) .....        -0.906


*********************************
Highest Flow Instability Indexes
*********************************
Link C14 (5)
Link C15 (5)
Link C19 (4)
Link C13 (4)
Link C11 (4)


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :   300.00 sec
Average Time Step           :   300.00 sec
Maximum Time Step           :   300.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.10


****************************
Subcatchment Runoff Summary
****************************

  ---------------------------------------------------------------------------------------------------
----------
                              Total      Total      Total      Total      Total       Total
Peak  Runoff
                             Precip      Runon       Evap      Infil     Runoff      Runoff
Runoff   Coeff
  Subcatchment                 in         in         in         in         in    10^6 gal
CFS
  ---------------------------------------------------------------------------------------------------
----------
  FI02                       1.69       0.00       0.00       0.07       1.54        0.62
55.68   0.914
  FI13                       1.69       0.00       0.00       1.00       0.67        0.69
54.66   0.394
  FI26                       1.69       0.00       0.00       1.20       0.48        0.47
30.24   0.282
  FI30                       1.69       0.00       0.00       1.30       0.38        0.66
37.05   0.227
  FI35                       1.69       0.00       0.00       1.48       0.20        1.08
52.51   0.121
  FI33                       1.69       0.00       0.00       0.94       0.72        0.69
54.65   0.428
  FI37                       1.69       0.00       0.00       1.63       0.06       24.99
1818.43   0.033
  FI31                       1.69       0.00       0.00       1.53       0.16        0.84
31.66   0.093
  FI23                       1.69       0.00       0.00       1.14       0.54        0.59
39.85   0.318
  FI24                       1.69       0.00       0.00       1.05       0.62        0.78
59.89   0.367
  FI22                       1.69       0.00       0.00       1.15       0.52        0.99
75.14   0.305
  FI16                       1.69       0.00       0.00       1.03       0.64        0.72
56.40   0.380
```

FI18	1.69	0.00	0.00	1.07	0.61	0.18	12.15	0.361					
FI25	1.69	0.00	0.00	1.21	0.47	0.27	17.21	0.276					
FI34	1.69	0.00	0.00	1.38	0.30	0.55	27.52	0.180					
FI27	1.69	0.00	0.00	1.38	0.31	0.32	16.81	0.183					
FI28	1.69	0.00	0.00	1.27	0.41	0.27	17.48	0.244					
FI12	1.69	0.00	0.00	1.02	0.65	0.56	43.32	0.385					
FI11	1.69	0.00	0.00	1.16	0.52	0.22	14.05	0.305					
FI09	1.69	0.00	0.00	0.99	0.67	0.31	24.71	0.398					
FI08	1.69	0.00	0.00	1.05	0.62	0.23	16.45	0.366					
FI32	1.69	0.00	0.00	0.75	0.90	1.79	154.90	0.532					
FI36	1.69	0.00	0.00	1.45	0.24	0.46	23.31	0.140					
FI19	1.69	0.00	0.00	1.03	0.64	0.12	8.43	0.379					
FI20	1.69	0.00	0.00	1.18	0.50	0.17	10.37	0.299					
FI07	1.69	0.00	0.00	0.90	0.76	0.51	42.57	0.450					
FI29	1.69	0.00	0.00	1.19	0.48	0.25	16.26	0.286					
FI01	1.69	0.00	0.00	0.21	1.41	0.51	45.11	0.835					
FI03	1.69	0.00	0.00	0.77	0.89	0.45	39.07	0.526					
FI04	1.69	0.00	0.00	1.00	0.67	0.35	28.33	0.396					
FI06	1.69	0.00	0.00	1.03	0.64	0.23	17.39	0.380					
FI05	1.69	0.00	0.00	0.88	0.78	0.35	28.75	0.462					
FI17	1.69	0.00	0.00	1.01	0.66	0.14	10.53	0.389					
FI14	1.69	0.00	0.00	1.10	0.57	0.30	22.35	0.335					
FI10	1.69	0.00	0.00	0.97	0.69	0.35	26.98	0.410					
FI21	1.69	0.00	0.00	1.17	0.51	0.37	23.71	0.303					
FI15	1.69	0.00	0.00	1.01	0.66	0.62	47.36	0.390					

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days	hr:min
J-FI36	JUNCTION	0.03	0.67	7306.67	0	00:55
J-FI37	JUNCTION	0.13	3.09	7363.09	0	00:35
J-FI35	JUNCTION	0.07	1.48	7329.48	0	00:55
J-FI33	JUNCTION	0.24	5.54	7281.54	0	00:35
J-FI34	JUNCTION	0.35	4.31	7280.31	0	01:00
J-FI27	JUNCTION	0.10	1.71	7251.71	0	01:00
J-FI31	JUNCTION	0.16	3.35	7189.35	0	00:40
J-FI29	JUNCTION	0.60	3.99	7147.99	0	01:00
J-FI18	JUNCTION	0.09	1.44	7121.44	0	01:00
J-FI20	JUNCTION	0.09	1.44	7194.44	0	01:00
J-FI19	JUNCTION	0.12	1.97	7195.97	0	01:00
J-FI26	JUNCTION	0.12	1.97	7207.97	0	01:00
J-FI25	JUNCTION	0.10	1.71	7208.71	0	01:00
J-FI16	JUNCTION	0.19	3.21	6999.21	0	00:55
J-FI32	JUNCTION	0.03	0.87	7164.87	0	00:35
J-FI30	JUNCTION	0.29	4.69	7148.69	0	00:35
J-FI23	JUNCTION	0.18	3.34	7104.34	0	00:50
J-FI24	JUNCTION	0.18	3.29	7103.29	0	00:50
J-FI03	JUNCTION	0.29	3.89	6787.89	0	01:10
J-FI02	JUNCTION	0.29	3.86	6767.86	0	01:15
J-FI06	JUNCTION	0.04	0.81	6890.81	0	00:35
J-FI07	JUNCTION	0.04	0.96	6940.96	0	00:35
J-FI08	JUNCTION	0.23	3.45	6853.45	0	01:05
J-FI05	JUNCTION	0.27	3.67	6813.67	0	01:10
J-FI04	JUNCTION	0.04	0.86	6816.86	0	00:35
J-FI17	JUNCTION	0.03	0.56	7098.56	0	00:35
J-FI09	JUNCTION	0.26	3.72	6851.72	0	01:05
J-FI11	JUNCTION	0.23	3.49	6891.49	0	01:00
J-FI10	JUNCTION	0.23	3.47	6889.47	0	01:00
J-FI14	JUNCTION	0.02	0.43	7020.43	0	00:35
J-FI12	JUNCTION	0.21	3.29	6931.29	0	01:00
J-FI13	JUNCTION	0.20	3.18	6929.18	0	01:00
J-FI21	JUNCTION	0.18	3.24	7057.24	0	00:50
J-FI15	JUNCTION	0.20	3.34	6997.34	0	00:55
J-FI22	JUNCTION	0.18	3.22	7057.22	0	00:50
J-FI28	JUNCTION	0.10	1.76	7252.76	0	01:00
J1	JUNCTION	0.23	3.51	6910.51	0	01:00
J2	JUNCTION	0.13	3.03	7276.03	0	00:40
J-FI01	OUTFALL	0.29	3.77	6745.77	0	01:15

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days	hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal
J-FI36	JUNCTION	23.31	23.31	0	00:50	0.463	0.463
J-FI37	JUNCTION	1818.43	1818.43	0	00:35	24.991	24.991
J-FI35	JUNCTION	52.51	52.51	0	00:55	1.083	1.083
J-FI33	JUNCTION	54.65	54.65	0	00:35	0.686	0.686
J-FI34	JUNCTION	27.52	120.04	0	01:00	0.550	2.940
J-FI27	JUNCTION	16.81	140.70	0	01:00	0.323	3.531
J-FI31	JUNCTION	31.66	1519.17	0	00:40	0.839	25.854
J-FI29	JUNCTION	16.26	1588.54	0	00:45	0.245	28.611
J-FI18	JUNCTION	12.15	175.19	0	01:00	0.181	4.739
J-FI20	JUNCTION	10.37	170.44	0	01:00	0.165	4.558
J-FI19	JUNCTION	8.43	165.61	0	01:00	0.117	4.393
J-FI26	JUNCTION	30.24	162.45	0	01:00	0.473	4.276
J-FI25	JUNCTION	17.21	148.12	0	01:00	0.271	3.803
J-FI16	JUNCTION	56.40	1716.07	0	00:55	0.719	36.993

J-FI32	JUNCTION	154.90	154.90	0	00:35	1.791	1.791
J-FI30	JUNCTION	37.05	37.05	0	00:35	0.660	0.660
J-FI23	JUNCTION	39.85	1525.53	0	00:50	0.591	29.218
J-FI24	JUNCTION	59.89	1554.45	0	00:50	0.784	30.003
J-FI03	JUNCTION	39.07	1695.99	0	01:10	0.452	42.217
J-FI02	JUNCTION	55.68	1670.29	0	01:15	0.622	42.848
J-FI06	JUNCTION	17.39	17.39	0	00:35	0.227	0.227
J-FI07	JUNCTION	42.57	42.57	0	00:35	0.512	0.512
J-FI08	JUNCTION	16.45	1716.33	0	01:05	0.226	40.496
J-FI05	JUNCTION	28.75	1683.74	0	01:10	0.351	41.760
J-FI04	JUNCTION	28.33	36.13	0	00:35	0.353	0.582
J-FI17	JUNCTION	10.53	10.53	0	00:35	0.145	0.145
J-FI09	JUNCTION	24.71	1723.46	0	01:05	0.309	40.805
J-FI11	JUNCTION	14.05	1712.49	0	01:00	0.223	39.404
J-FI10	JUNCTION	26.98	1721.03	0	01:00	0.347	39.751
J-FI14	JUNCTION	22.35	22.35	0	00:35	0.297	0.297
J-FI12	JUNCTION	43.32	1698.01	0	01:00	0.559	38.185
J-FI13	JUNCTION	54.66	1715.26	0	01:00	0.695	38.879
J-FI21	JUNCTION	23.71	1509.95	0	00:50	0.372	30.387
J-FI15	JUNCTION	47.36	1735.24	0	00:55	0.618	37.611
J-FI22	JUNCTION	75.14	1541.96	0	00:50	0.985	31.373
J-FI28	JUNCTION	17.48	127.45	0	01:00	0.267	3.208
J1	JUNCTION	0.00	1729.34	0	01:00	0.000	39.179
J2	JUNCTION	0.00	1605.68	0	00:40	0.000	24.999
J-FI01	OUTFALL	45.11	1641.75	0	01:15	0.511	43.368

****
Node Surcharge Summary
****

No nodes were surcharged.

****
Node Flooding Summary
****

No nodes were flooded.

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume 10^6 gal
J-FI01	99.65	67.10	1641.75	43.368
System	99.65	67.10	1641.75	43.368

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
C1	CHANNEL	1635.76	0 01:15	5.48	0.31	0.63
C2	CHANNEL	1663.08	0 01:15	5.31	0.33	0.64
C3	CHANNEL	1687.06	0 01:10	6.04	0.29	0.60
C4	CHANNEL	34.73	0 00:40	5.22	0.01	0.14
C5	CHANNEL	1662.79	0 01:10	5.94	0.29	0.61
C6	DUMMY	1716.33	0 01:05			
C7	CHANNEL	1699.40	0 01:05	6.69	0.25	0.57
C8	DUMMY	1712.49	0 01:00			
C9	CHANNEL	1720.21	0 01:00	7.72	0.21	0.53
C10	DUMMY	1698.01	0 01:00			
C11	DUMMY	1716.07	0 00:55			
C12	CHANNEL	1683.90	0 01:00	7.29	0.23	0.54
C13	CHANNEL	1525.44	0 00:55	7.03	0.21	0.53
C14	DUMMY	1509.95	0 00:50			
C15	CHANNEL	1494.14	0 00:50	6.81	0.22	0.54
C16	CHANNEL	1526.74	0 00:50	7.02	0.20	0.52
C17	CHANNEL	1501.74	0 00:50	6.48	0.23	0.55
C18	CHANNEL	137.01	0 00:35	4.35	0.02	0.14
C19	CHANNEL	25.62	0 01:00	0.29	0.29	0.56
C20	CHANNEL	1488.70	0 00:45	6.61	0.23	0.55
C22	CHANNEL	50.40	0 01:00	4.05	0.02	0.24
C23	CHANNEL	23.17	0 00:55	4.29	0.02	0.12
C24	CHANNEL	27.94	0 01:00	0.25	0.41	0.70
C25	CHANNEL	119.54	0 01:00	5.92	0.09	0.32
C26	DUMMY	127.45	0 01:00			
C27	CHANNEL	139.86	0 01:00	7.20	0.09	0.31
C28	DUMMY	148.12	0 01:00			
C29	CHANNEL	162.63	0 01:00	6.66	0.11	0.36
C30	DUMMY	165.61	0 01:00			
C31	CHANNEL	170.62	0 01:00	6.96	0.03	0.24
C32	CHANNEL	174.34	0 01:05	7.15	0.03	0.24
C33	CHANNEL	9.74	0 00:40	3.54	0.01	0.18
C34	CHANNEL	36.30	0 00:40	5.65	0.01	0.15
C35	CHANNEL	14.31	0 00:40	3.24	0.02	0.24
C36	CHANNEL	1705.92	0 01:00	6.50	0.26	0.58
C37	CHANNEL	19.83	0 00:40	3.56	0.00	0.06
C38	CHANNEL	1605.68	0 00:40	9.24	0.17	0.49
C39	CHANNEL	1491.47	0 00:40	8.62	0.17	0.50

****
Conduit Surcharge Summary
****

Conduit	Hours Full Both Ends	Hours Full Upstream	Hours Full Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C6	0.01	0.01	0.01	24.08	0.01
C8	0.01	0.01	0.01	24.08	0.01
C10	0.01	0.01	0.01	24.08	0.01
C11	0.01	0.01	0.01	24.08	0.01
C14	0.01	0.01	0.01	24.08	0.01
C26	0.01	0.01	0.01	24.08	0.01
C28	0.01	0.01	0.01	24.08	0.01
C30	0.01	0.01	0.01	24.08	0.01

Analysis begun on: Wed Oct 03 09:50:07 2012
Analysis ended on: Wed Oct 03 09:50:07 2012
Total elapsed time: < 1 sec

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.022)

Fox Creek Basin - Future Conditions
UDFCD gauge 100 year 2 hr
12/2012- Reroute C25 from J-FX15 to J-FX03

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... KINWAVE
Starting Date JUL-26-2012 00:00:00
Ending Date JUL-27-2012 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 300.00 sec

WARNING 04: minimum elevation drop used for Conduit C44

WARNING 04: minimum elevation drop used for Conduit C45

****
Element Count
****
Number of rain gages 3
Number of subcatchments ... 36
Number of nodes 46
Number of links 45
Number of pollutants 0
Number of land uses 0

****
Raingage Summary
****

Name	Data Source	Data Type	Recording Interval
rg100	SCS_24h_Type_II_2.8in	INTENSITY	15 min.
UDFCD100	UDFCD100	VOLUME	5 min.
UDFCD5	Timeseries1	VOLUME	5 min.

****
Subcatchment Summary
****

Name	Area	Width	%Imperv	%Slope	Rain Gage	Outlet
FX23	19.34	3839.28	51.10	14.3777	UDFCD100	J-FX23
FX26	42.25	3704.67	36.80	12.7569	UDFCD100	J-FX26
FX24	13.63	2087.19	53.70	12.7636	UDFCD100	J-FX24
FX07	29.24	3262.73	62.50	8.9373	UDFCD100	J-FX07
FX09	12.92	2862.44	62.00	11.4588	UDFCD100	J-FX09
FX28	34.64	4623.82	36.50	12.9849	UDFCD100	J-FX28
FX29	42.93	4789.89	39.50	11.1443	UDFCD100	J-FX29
FX17	11.82	1559.89	60.90	7.2313	UDFCD100	J-FX17
FX11	17.13	3900.38	86.70	6.6660	UDFCD100	J-FX11
FX31	72.49	7347.12	40.50	9.2553	UDFCD100	J-FX31
FX34	66.63	7280.36	14.50	23.3505	UDFCD100	J-FX34
FX33	28.77	2763.21	36.70	8.1210	UDFCD100	J-FX33
FX32	38.74	3086.51	38.60	6.7131	UDFCD100	J-FX32
FX18	42.96	3036.66	16.30	6.4281	UDFCD100	J-FX18
FX01	20.59	1383.48	23.50	0.9541	UDFCD100	J-FX01
FX02	36.80	2929.34	24.20	0.9763	UDFCD100	J-FX02
FX35	28.84	3405.55	35.10	19.3449	UDFCD100	J-FX35
FX06	27.49	2702.63	58.40	11.4999	UDFCD100	J-FX06
FX25	23.67	2974.58	44.80	10.0855	UDFCD100	J-FX25
FX22	5.21	2596.91	59.30	9.5883	UDFCD100	J-FX22
FX30	8.92	2504.73	24.00	8.0408	UDFCD100	J-FX30
FX10	6.86	1945.28	96.80	8.2045	UDFCD100	J-FX10
FX15	13.79	2212.00	71.20	10.8499	UDFCD100	J-FX15
FX03	19.33	2239.04	87.80	1.7150	UDFCD100	J-FX03
FX04	11.02	1499.88	87.60	1.4668	UDFCD100	J-FX04
FX19	13.07	1592.03	36.00	9.6732	UDFCD100	J-FX19
FX20	12.85	1943.28	25.40	10.3742	UDFCD100	J-FX20
FX08	6.31	2287.04	61.40	14.8664	UDFCD100	J-FX08
FX05	4.89	1228.33	89.20	4.2334	UDFCD100	J-FX05
FX13	6.62	936.68	64.40	5.6369	UDFCD100	J-FX13
FX16	30.31	3243.56	78.60	8.5092	UDFCD100	J-FX16
FX12	5.91	1368.68	77.20	9.3229	UDFCD100	J-FX12
FX14	9.80	2422.54	64.20	9.4116	UDFCD100	J-FX14
FX21	5.21	2799.27	26.80	12.4890	UDFCD100	J-FX21
FX27	39.95	2999.71	26.80	11.5878	UDFCD100	J-FX27
FX36	8.01	354.67	90.60	26.7854	UDFCD100	J-FX36

****
Node Summary
****

Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
J-FX31	JUNCTION	6958.00	6.00	0.0	
J-FX32	JUNCTION	6958.00	6.00	0.0	
J-FX28	JUNCTION	6864.00	6.00	0.0	
J-FX27	JUNCTION	6865.00	6.00	0.0	
J-FX29	JUNCTION	6980.00	6.00	0.0	
J-FX34	JUNCTION	7150.00	5.50	0.0	
J-FX33	JUNCTION	7066.00	5.50	0.0	
J-FX35	JUNCTION	7154.00	5.50	0.0	
J-FX18	JUNCTION	6834.00	7.00	0.0	
J-FX14	JUNCTION	6752.00	3.00	0.0	
J-FX07	JUNCTION	6742.00	3.00	0.0	
J-FX08	JUNCTION	6744.00	3.00	0.0	
J-FX11	JUNCTION	6748.00	6.00	0.0	
J-FX24	JUNCTION	6894.00	6.00	0.0	

J-FX23	JUNCTION	6904.00	6.00	0.0
J-FX19	JUNCTION	6792.00	6.00	0.0
J-FX20	JUNCTION	6791.00	6.00	0.0
J-FX22	JUNCTION	6898.00	6.00	0.0
J-FX02	JUNCTION	6728.00	10.00	0.0
J-FX26	JUNCTION	6902.00	6.00	0.0
J-FX30	JUNCTION	6886.00	6.00	0.0
J-FX21	JUNCTION	6904.00	5.50	0.0
J-FX25	JUNCTION	6842.00	6.00	0.0
J-FX06	JUNCTION	6740.00	3.00	0.0
J3	JUNCTION	6834.00	6.00	0.0
J-FX17	JUNCTION	6856.00	7.00	0.0
J-FX13	JUNCTION	6830.00	3.00	0.0
J-FX05	JUNCTION	6720.00	6.00	0.0
J-FX16	JUNCTION	6766.00	3.00	0.0
J-FX15	JUNCTION	6758.00	3.00	0.0
J-FX10	JUNCTION	6744.00	3.00	0.0
J-FX12	JUNCTION	6751.00	3.00	0.0
J-FX03	JUNCTION	6736.00	3.00	0.0
J-FX04	JUNCTION	6730.00	3.00	0.0
J-FX01	JUNCTION	6721.00	10.00	0.0
J1	JUNCTION	6948.00	6.00	0.0
J2	JUNCTION	6761.00	6.00	0.0
J-FX09	JUNCTION	6749.00	0.00	0.0
J4	JUNCTION	6848.00	6.00	0.0
J5	JUNCTION	6794.00	3.00	0.0
J6	JUNCTION	7052.00	5.50	0.0
J7	JUNCTION	7038.00	6.00	0.0
J-FX36	JUNCTION	6714.00	10.00	0.0
J8	JUNCTION	6720.00	10.00	0.0
J9	JUNCTION	6742.00	6.00	0.0
OF1	OUTFALL	6710.00	10.00	0.0

****
Link Summary
****

Name	From Node	To Node	Type	Length	%Slope	Roughness
C1	J-FX02	J-FX01	CONDUIT	1672.9	0.4184	0.0350
C2	J-FX01	J8	CONDUIT	97.9	1.0211	0.0350
C3	J-FX25	J-FX06	CONDUIT	829.3	12.3939	0.0187
C4	J-FX26	J-FX25	CONDUIT	986.4	6.0941	0.0375
C5	J-FX34	J-FX33	CONDUIT	1160.0	7.2607	0.0730
C6	J-FX35	J6	CONDUIT	1278.3	8.0047	0.0730
C7	J-FX29	J1	CONDUIT	333.9	9.6289	0.0730
C8	J-FX31	J1	CONDUIT	145.1	6.9068	0.0730
C9	J-FX32	J1	CONDUIT	146.9	6.8227	0.0730
C10	J-FX27	J-FX28	CONDUIT	21.5	4.6475	0.0100
C11	J-FX19	J-FX20	CONDUIT	31.6	3.1661	0.0100
C12	J-FX21	J3	CONDUIT	351.2	20.3386	0.0730
C15	J2	J-FX11	CONDUIT	761.2	1.7081	0.0375
C14	J-FX22	J2	CONDUIT	636.6	22.0358	0.0730
C13	J-FX11	J-FX08	CONDUIT	228.2	1.7532	0.0187
C16	J-FX08	J-FX07	CONDUIT	249.8	0.8008	0.0187
C17	J-FX10	J9	CONDUIT	111.8	1.7884	0.0187
C18	J9	J-FX05	CONDUIT	791.5	2.7805	0.0375
C19	J-FX04	J-FX05	CONDUIT	452.0	2.2130	0.0187
C20	J-FX15	J-FX14	CONDUIT	394.7	1.5205	0.0187
C21	J-FX14	J-FX12	CONDUIT	95.0	1.0527	0.0187
C22	J-FX03	J-FX04	CONDUIT	1136.4	0.5280	0.0187
C23	J-FX13	J-FX12	CONDUIT	710.6	11.1873	0.0187
C24	J-FX12	J-FX10	CONDUIT	954.4	0.7335	0.0187
C25	J-FX16	J-FX03	CONDUIT	2090.6	1.4352	0.0187
C26	J-FX30	J-FX19	CONDUIT	1029.3	9.1710	0.0730
C27	J-FX17	J-FX18	CONDUIT	372.6	5.9141	0.0187
C28	J-FX18	J5	CONDUIT	955.2	4.1915	0.0187
C29	J-FX20	J2	CONDUIT	437.7	6.8697	0.0730
C31	J-FX28	J3	CONDUIT	545.8	5.5045	0.0730
C32	J3	J-FX20	CONDUIT	702.0	6.1371	0.0730
C33	J1	J-FX27	CONDUIT	1424.4	5.8368	0.0730
C34	J-FX24	J4	CONDUIT	207.2	22.7748	0.0730
C35	J-FX23	J4	CONDUIT	288.7	19.7707	0.0730
C36	J4	J-FX05	CONDUIT	1538.0	8.3516	0.0730
C37	J-FX09	J-FX11	CONDUIT	16.5	6.0829	0.0100
C38	J6	J-FX31	CONDUIT	1383.3	6.8111	0.0730
C39	J-FX06	OF1	CONDUIT	327.9	9.1871	0.0100
C30	J-FX36	OF1	CONDUIT	930.9	0.4297	0.0350
C41	J5	J-FX11	CONDUIT	716.4	6.4342	0.0187
C42	J-FX33	J7	CONDUIT	815.5	3.4355	0.0730
C43	J7	J-FX32	CONDUIT	1076.8	7.4503	0.0730
C40	J8	J-FX36	CONDUIT	907.8	0.6610	0.0350
C44	J-FX05	J8	CONDUIT	15.2	0.0066	0.0100
C45	J-FX07	J9	CONDUIT	13.3	0.0075	0.0100

****
Cross Section Summary
****

Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
C1	largeriver	10.00	824.00	3.15	152.00	1	4858.82
C2	largeriver	10.00	824.00	3.15	152.00	1	7590.15
C3	street-overflow	3.00	106.00	0.33	106.00	1	1425.03
C4	channel-overflow2n	6.00	590.00	1.65	215.00	1	8053.89
C5	channel-main1a	5.50	122.00	1.60	44.00	1	914.03
C6	channel-main1a	5.50	122.00	1.60	44.00	1	959.72
C7	channel-overflow1a	6.00	548.00	1.40	208.00	1	4329.26
C8	channel-overflow1a	6.00	548.00	1.40	208.00	1	3666.60
C9	channel-overflow1a	6.00	548.00	1.40	208.00	1	3644.21
C10	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C11	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C12	channel-main1a	5.50	122.00	1.60	44.00	1	1529.79
C15	channel-overflow2n	6.00	590.00	1.65	215.00	1	4263.86
C14	channel-overflow1a	6.00	548.00	1.40	208.00	1	6549.22
C13	street-overflow	3.00	106.00	0.33	106.00	1	535.96
C16	street-overflow	3.00	106.00	0.33	106.00	1	362.23
C17	street-overflow	3.00	106.00	0.33	106.00	1	541.32
C18	channel-overflow2n	6.00	590.00	1.65	215.00	1	5440.22
C19	street-overflow	3.00	106.00	0.33	106.00	1	602.16
C20	street-overflow	3.00	106.00	0.33	106.00	1	499.12
C21	street-overflow	3.00	106.00	0.33	106.00	1	415.31
C22	street-overflow	3.00	106.00	0.33	106.00	1	294.13
C23	street-overflow	3.00	106.00	0.33	106.00	1	1353.89
C24	street-overflow	3.00	106.00	0.33	106.00	1	346.67
C25	street-overflow	3.00	106.00	0.33	106.00	1	484.92
C26	channel-overflow1a	6.00	548.00	1.40	208.00	1	4225.07
C27	street-main	7.00	329.94	2.45	72.50	1	11561.83
C28	street-overflow	3.00	106.00	0.33	106.00	1	828.71
C29	Channel-overflow2a	6.00	590.00	1.64	215.00	1	4384.65
C31	Channel-overflow2a	6.00	590.00	1.64	215.00	1	3924.88
C32	Channel-overflow2a	6.00	590.00	1.64	215.00	1	4144.28
C33	Channel-overflow2a	6.00	590.00	1.64	215.00	1	4041.59
C34	channel-overflow1a	6.00	548.00	1.40	208.00	1	6658.12
C35	channel-overflow1a	6.00	548.00	1.40	208.00	1	6203.49

C36	Channel-overflow2a	6.00	590.00	1.64	215.00	1	4834.49
C37	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C38	channel-main1a	5.50	122.00	1.60	44.00	1	885.28
C39	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C30	largeriver	10.00	824.00	3.15	152.00	1	4923.92
C41	street-overflow	3.00	106.00	0.33	106.00	1	1026.75
C42	channel-main1a	5.50	122.00	1.60	44.00	1	628.73
C43	channel-overflow1a	6.00	548.00	1.40	208.00	1	3808.13
C40	largeriver	10.00	824.00	3.15	152.00	1	6106.67
C44	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C45	DUMMY	0.00	0.00	0.00	0.00	1	0.00

****
Transect Summary
****

Transect channel-main1st
Area:

0.0036	0.0072	0.0108	0.0144	0.0181
0.0225	0.0276	0.0336	0.0403	0.0479
0.0562	0.0653	0.0752	0.0860	0.0975
0.1098	0.1228	0.1367	0.1514	0.1669
0.1832	0.2002	0.2181	0.2367	0.2561
0.2764	0.2974	0.3192	0.3418	0.3652
0.3894	0.4144	0.4402	0.4668	0.4942
0.5223	0.5513	0.5811	0.6116	0.6430
0.6751	0.7080	0.7417	0.7762	0.8116
0.8477	0.8846	0.9222	0.9607	1.0000

Hrad:

0.0649	0.1233	0.1763	0.2244	0.2721
0.3133	0.3449	0.3701	0.3912	0.4097
0.4266	0.4424	0.4575	0.4722	0.4866
0.5009	0.5152	0.5294	0.5435	0.5577
0.5720	0.5863	0.6006	0.6149	0.6293
0.6438	0.6583	0.6728	0.6874	0.7020
0.7167	0.7314	0.7461	0.7608	0.7756
0.7904	0.8053	0.8201	0.8350	0.8499
0.8649	0.8798	0.8948	0.9098	0.9248
0.9398	0.9548	0.9699	0.9849	1.0000

Width:

0.0909	0.0909	0.0909	0.0909	0.1000
0.1200	0.1400	0.1600	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect channel-main2nd
Area:

0.0061	0.0122	0.0183	0.0244	0.0306
0.0374	0.0448	0.0529	0.0617	0.0711
0.0812	0.0920	0.1035	0.1156	0.1284
0.1419	0.1560	0.1708	0.1863	0.2025
0.2193	0.2368	0.2550	0.2739	0.2934
0.3136	0.3345	0.3560	0.3782	0.4011
0.4247	0.4489	0.4738	0.4994	0.5256
0.5525	0.5801	0.6084	0.6373	0.6669
0.6972	0.7282	0.7598	0.7921	0.8251
0.8587	0.8930	0.9280	0.9637	1.0000

Hrad:

0.0513	0.1000	0.1462	0.1901	0.2337
0.2746	0.3105	0.3427	0.3717	0.3983
0.4229	0.4458	0.4673	0.4876	0.5070
0.5256	0.5434	0.5607	0.5774	0.5937
0.6095	0.6251	0.6403	0.6552	0.6699
0.6844	0.6987	0.7128	0.7267	0.7406
0.7542	0.7678	0.7813	0.7946	0.8079
0.8211	0.8342	0.8473	0.8603	0.8732
0.8861	0.8989	0.9116	0.9244	0.9371
0.9497	0.9623	0.9749	0.9875	1.0000

Width:

0.1667	0.1667	0.1667	0.1667	0.1750
0.1933	0.2117	0.2300	0.2483	0.2667
0.2850	0.3033	0.3217	0.3400	0.3583
0.3767	0.3950	0.4133	0.4317	0.4500
0.4683	0.4867	0.5050	0.5233	0.5417
0.5600	0.5783	0.5967	0.6150	0.6333
0.6517	0.6700	0.6883	0.7067	0.7250
0.7433	0.7617	0.7800	0.7983	0.8167
0.8350	0.8533	0.8717	0.8900	0.9083
0.9267	0.9450	0.9633	0.9817	1.0000

Transect channel-main3rd
Area:

0.0080	0.0159	0.0239	0.0318	0.0398
0.0483	0.0574	0.0671	0.0774	0.0882
0.0996	0.1116	0.1242	0.1374	0.1511
0.1655	0.1804	0.1959	0.2120	0.2287
0.2459	0.2638	0.2822	0.3012	0.3208
0.3410	0.3617	0.3830	0.4050	0.4275
0.4506	0.4742	0.4985	0.5233	0.5487
0.5747	0.6013	0.6285	0.6562	0.6846
0.7135	0.7430	0.7731	0.8037	0.8350
0.8668	0.8993	0.9323	0.9658	1.0000

Hrad:

0.0437	0.0859	0.1267	0.1660	0.2052
0.2427	0.2773	0.3093	0.3392	0.3672
0.3936	0.4186	0.4424	0.4650	0.4867
0.5075	0.5275	0.5469	0.5656	0.5837
0.6013	0.6184	0.6351	0.6514	0.6673
0.6829	0.6982	0.7132	0.7279	0.7424
0.7567	0.7707	0.7846	0.7983	0.8118
0.8252	0.8384	0.8514	0.8644	0.8772
0.8899	0.9025	0.9150	0.9274	0.9397
0.9519	0.9640	0.9761	0.9881	1.0000

Width:

0.2308	0.2308	0.2308	0.2308	0.2385
0.2554	0.2723	0.2892	0.3062	0.3231
0.3400	0.3569	0.3738	0.3908	0.4077
0.4246	0.4415	0.4585	0.4754	0.4923
0.5092	0.5262	0.5431	0.5600	0.5769
0.5938	0.6108	0.6277	0.6446	0.6615
0.6785	0.6954	0.7123	0.7292	0.7462
0.7631	0.7800	0.7969	0.8138	0.8308
0.8477	0.8646	0.8815	0.8985	0.9154
0.9323	0.9492	0.9662	0.9831	1.0000

Transect channel-overflow1s
Area:

0.0018	0.0035	0.0053	0.0070	0.0088

0.0105	0.0123	0.0140	0.0160	0.0190
0.0230	0.0281	0.0342	0.0414	0.0496
0.0589	0.0693	0.0806	0.0931	0.1066
0.1211	0.1367	0.1533	0.1710	0.1898
0.2096	0.2304	0.2523	0.2753	0.2993
0.3243	0.3504	0.3776	0.4058	0.4350
0.4653	0.4967	0.5291	0.5626	0.5971
0.6326	0.6693	0.7069	0.7456	0.7854
0.8262	0.8681	0.9110	0.9550	1.0000

Hrad:

0.0827	0.1607	0.2344	0.3042	0.3703
0.4331	0.4927	0.5495	0.6009	0.6143
0.6032	0.5833	0.5633	0.5469	0.5350
0.5276	0.5242	0.5241	0.5269	0.5320
0.5390	0.5476	0.5576	0.5687	0.5807
0.5936	0.6072	0.6213	0.6360	0.6511
0.6667	0.6825	0.6987	0.7152	0.7319
0.7488	0.7659	0.7832	0.8007	0.8183
0.8360	0.8539	0.8718	0.8899	0.9080
0.9263	0.9446	0.9630	0.9815	1.0000

Width:

0.0385	0.0385	0.0385	0.0385	0.0385
0.0385	0.0385	0.0385	0.0538	0.0769
0.1000	0.1231	0.1462	0.1692	0.1923
0.2154	0.2385	0.2615	0.2846	0.3077
0.3308	0.3538	0.3769	0.4000	0.4231
0.4462	0.4692	0.4923	0.5154	0.5385
0.5615	0.5846	0.6077	0.6308	0.6538
0.6769	0.7000	0.7231	0.7462	0.7692
0.7923	0.8154	0.8385	0.8615	0.8846
0.9077	0.9308	0.9538	0.9769	1.0000

Transect channel-overflow2n

Area:

0.0031	0.0061	0.0092	0.0122	0.0153
0.0183	0.0214	0.0244	0.0277	0.0319
0.0370	0.0432	0.0503	0.0584	0.0675
0.0775	0.0885	0.1005	0.1135	0.1275
0.1424	0.1583	0.1752	0.1930	0.2119
0.2317	0.2525	0.2742	0.2970	0.3207
0.3454	0.3710	0.3977	0.4253	0.4539
0.4835	0.5140	0.5455	0.5780	0.6115
0.6460	0.6814	0.7178	0.7552	0.7936
0.8329	0.8732	0.9145	0.9568	1.0000

Hrad:

0.0714	0.1405	0.2075	0.2726	0.3357
0.3969	0.4564	0.5142	0.5695	0.6043
0.6222	0.6297	0.6317	0.6311	0.6299
0.6291	0.6292	0.6306	0.6332	0.6369
0.6419	0.6479	0.6548	0.6626	0.6711
0.6804	0.6902	0.7007	0.7116	0.7229
0.7346	0.7467	0.7592	0.7719	0.7849
0.7981	0.8115	0.8252	0.8390	0.8530
0.8672	0.8815	0.8959	0.9105	0.9252
0.9400	0.9548	0.9698	0.9849	1.0000

Width:

0.0698	0.0698	0.0698	0.0698	0.0698
0.0698	0.0698	0.0698	0.0847	0.1070
0.1293	0.1516	0.1740	0.1963	0.2186
0.2409	0.2633	0.2856	0.3079	0.3302
0.3526	0.3749	0.3972	0.4195	0.4419
0.4642	0.4865	0.5088	0.5312	0.5535
0.5758	0.5981	0.6205	0.6428	0.6651
0.6874	0.7098	0.7321	0.7544	0.7767
0.7991	0.8214	0.8437	0.8660	0.8884
0.9107	0.9330	0.9553	0.9777	1.0000

Transect channel-overflow3r

Area:

0.0065	0.0130	0.0195	0.0259	0.0324
0.0389	0.0454	0.0519	0.0586	0.0659
0.0741	0.0831	0.0928	0.1033	0.1146
0.1267	0.1395	0.1531	0.1675	0.1827
0.1987	0.2154	0.2329	0.2512	0.2703
0.2901	0.3107	0.3322	0.3543	0.3773
0.4010	0.4256	0.4509	0.4769	0.5038
0.5314	0.5598	0.5890	0.6190	0.6497
0.6813	0.7136	0.7466	0.7805	0.8151
0.8506	0.8867	0.9237	0.9615	1.0000

Hrad:

0.0383	0.0761	0.1135	0.1505	0.1870
0.2231	0.2588	0.2941	0.3179	0.3344
0.3497	0.3643	0.3785	0.3926	0.4068
0.4211	0.4356	0.4503	0.4652	0.4804
0.4959	0.5115	0.5274	0.5434	0.5596
0.5760	0.5926	0.6093	0.6262	0.6432
0.6603	0.6775	0.6948	0.7123	0.7298
0.7474	0.7650	0.7828	0.8006	0.8185
0.8364	0.8544	0.8724	0.8905	0.9087
0.9269	0.9451	0.9634	0.9817	1.0000

Width:

0.1667	0.1667	0.1667	0.1667	0.1667
0.1667	0.1667	0.1667	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect street-main

Area:

0.0004	0.0014	0.0032	0.0057	0.0089
0.0128	0.0175	0.0248	0.0383	0.0546
0.0713	0.0883	0.1057	0.1235	0.1416
0.1601	0.1789	0.1981	0.2176	0.2375
0.2577	0.2783	0.2993	0.3206	0.3423
0.3643	0.3867	0.4095	0.4326	0.4560
0.4798	0.5040	0.5285	0.5534	0.5786
0.6042	0.6302	0.6565	0.6832	0.7102
0.7376	0.7653	0.7934	0.8218	0.8506
0.8798	0.9093	0.9392	0.9694	1.0000

Hrad:

0.0044	0.0089	0.0133	0.0177	0.0222
0.0266	0.0310	0.0361	0.0464	0.0709
0.0993	0.1293	0.1597	0.1901	0.2203
0.2501	0.2794	0.3083	0.3366	0.3644
0.3917	0.4185	0.4448	0.4705	0.4958
0.5205	0.5448	0.5687	0.5921	0.6150
0.6376	0.6597	0.6815	0.7028	0.7238
0.7444	0.7646	0.7845	0.8041	0.8234
0.8423	0.8610	0.8793	0.8973	0.9151
0.9326	0.9498	0.9668	0.9835	1.0000

Width:

0.0232	0.0463	0.0695	0.0927	0.1159
0.1390	0.1622	0.3377	0.5250	0.5366
0.5481	0.5597	0.5713	0.5829	0.5945
0.6061	0.6177	0.6292	0.6408	0.6524
0.6640	0.6756	0.6872	0.6988	0.7103
0.7219	0.7335	0.7451	0.7567	0.7683
0.7799	0.7914	0.8030	0.8146	0.8262
0.8378	0.8494	0.8610	0.8726	0.8841
0.8957	0.9073	0.9189	0.9305	0.9421
0.9537	0.9652	0.9768	0.9884	1.0000

Transect street-overflow
Area:

0.0013	0.0031	0.0052	0.0078	0.0108
0.0141	0.0179	0.0221	0.0267	0.0317
0.0371	0.0429	0.0492	0.0558	0.0628
0.0703	0.0781	0.0864	0.0951	0.1042
0.1136	0.1235	0.1338	0.1445	0.1557
0.1672	0.1791	0.1915	0.2042	0.2174
0.2309	0.2449	0.2593	0.2750	0.2953
0.3203	0.3501	0.3846	0.4239	0.4679
0.5150	0.5635	0.6133	0.6645	0.7170
0.7709	0.8261	0.8827	0.9407	1.0000

Hrad:

0.0251	0.0454	0.0634	0.0802	0.0963
0.1118	0.1270	0.1420	0.1568	0.1714
0.1860	0.2005	0.2149	0.2292	0.2435
0.2577	0.2720	0.2861	0.3003	0.3145
0.3286	0.3427	0.3568	0.3709	0.3849
0.3990	0.4131	0.4271	0.4411	0.4552
0.4692	0.4832	0.4972	0.4907	0.4752
0.4645	0.4602	0.4631	0.4730	0.4895
0.5265	0.5697	0.6175	0.6683	0.7213
0.7758	0.8313	0.8874	0.9437	1.0000

Width:

0.0257	0.0325	0.0392	0.0460	0.0528
0.0596	0.0664	0.0732	0.0800	0.0868
0.0936	0.1004	0.1072	0.1140	0.1208
0.1275	0.1343	0.1411	0.1479	0.1547
0.1615	0.1683	0.1751	0.1819	0.1887
0.1955	0.2023	0.2091	0.2158	0.2226
0.2294	0.2362	0.2430	0.2981	0.3774
0.4566	0.5358	0.6151	0.6943	0.7736
0.7962	0.8189	0.8415	0.8642	0.8868
0.9094	0.9321	0.9547	0.9774	1.0000

Transect largeriver
Area:

0.0049	0.0097	0.0146	0.0194	0.0243
0.0291	0.0340	0.0388	0.0437	0.0485
0.0535	0.0588	0.0644	0.0703	0.0765
0.0829	0.0897	0.0967	0.1040	0.1117
0.1204	0.1311	0.1437	0.1583	0.1748
0.1932	0.2136	0.2359	0.2602	0.2864
0.3146	0.3447	0.3767	0.4107	0.4466
0.4835	0.5204	0.5573	0.5942	0.6311
0.6680	0.7049	0.7417	0.7786	0.8155
0.8524	0.8893	0.9262	0.9631	1.0000

Hrad:

0.0621	0.1218	0.1792	0.2345	0.2878
0.3392	0.3888	0.4367	0.4829	0.5276
0.5782	0.6249	0.6681	0.7083	0.7458
0.7810	0.8140	0.8452	0.8747	0.9028
0.9102	0.9083	0.8978	0.8815	0.8620
0.8413	0.8209	0.8017	0.7841	0.7686
0.7551	0.7436	0.7341	0.7265	0.7205
0.7291	0.7407	0.7546	0.7704	0.7877
0.8061	0.8255	0.8457	0.8665	0.8879
0.9097	0.9318	0.9543	0.9771	1.0000

Width:

0.1316	0.1316	0.1316	0.1316	0.1316
0.1316	0.1316	0.1316	0.1316	0.1316
0.1395	0.1474	0.1553	0.1632	0.1711
0.1789	0.1868	0.1947	0.2026	0.2105
0.2632	0.3158	0.3684	0.4211	0.4737
0.5263	0.5789	0.6316	0.6842	0.7368
0.7895	0.8421	0.8947	0.9474	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000

Transect channel-main1a
Area:

0.0036	0.0072	0.0108	0.0144	0.0181
0.0225	0.0276	0.0336	0.0403	0.0479
0.0562	0.0653	0.0752	0.0860	0.0975
0.1098	0.1228	0.1367	0.1514	0.1669
0.1832	0.2002	0.2181	0.2367	0.2561
0.2764	0.2974	0.3192	0.3418	0.3652
0.3894	0.4144	0.4402	0.4668	0.4942
0.5223	0.5513	0.5811	0.6116	0.6430
0.6751	0.7080	0.7417	0.7762	0.8116
0.8477	0.8846	0.9222	0.9607	1.0000

Hrad:

0.0651	0.1237	0.1767	0.2250	0.2728
0.3142	0.3458	0.3710	0.3921	0.4107
0.4275	0.4433	0.4584	0.4731	0.4875
0.5018	0.5160	0.5302	0.5443	0.5585
0.5727	0.5869	0.6012	0.6156	0.6300
0.6444	0.6588	0.6734	0.6879	0.7025
0.7171	0.7318	0.7465	0.7612	0.7760
0.7908	0.8056	0.8204	0.8353	0.8502
0.8651	0.8800	0.8949	0.9099	0.9249
0.9399	0.9549	0.9699	0.9849	1.0000

Width:

0.0909	0.0909	0.0909	0.0909	0.1000
0.1200	0.1400	0.1600	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect channel-overflow1a
Area:

0.0018	0.0035	0.0053	0.0070	0.0088
0.0105	0.0123	0.0140	0.0160	0.0190
0.0230	0.0281	0.0342	0.0414	0.0496
0.0589	0.0693	0.0806	0.0931	0.1066
0.1211	0.1367	0.1533	0.1710	0.1898
0.2096	0.2304	0.2523	0.2753	0.2993
0.3243	0.3504	0.3776	0.4058	0.4350
0.4653	0.4967	0.5291	0.5626	0.5971

```
          0.6326    0.6693    0.7069    0.7456    0.7854
          0.8262    0.8681    0.9110    0.9550    1.0000
Hrad:
          0.0830    0.1612    0.2352    0.3052    0.3715
          0.4345    0.4943    0.5513    0.6028    0.6163
          0.6051    0.5851    0.5650    0.5484    0.5363
          0.5288    0.5253    0.5252    0.5278    0.5329
          0.5398    0.5484    0.5583    0.5694    0.5814
          0.5942    0.6077    0.6219    0.6365    0.6516
          0.6671    0.6830    0.6991    0.7155    0.7322
          0.7491    0.7662    0.7835    0.8009    0.8185
          0.8362    0.8540    0.8720    0.8900    0.9082
          0.9264    0.9447    0.9631    0.9815    1.0000
Width:
          0.0385    0.0385    0.0385    0.0385    0.0385
          0.0385    0.0385    0.0385    0.0538    0.0769
          0.1000    0.1231    0.1462    0.1692    0.1923
          0.2154    0.2385    0.2615    0.2846    0.3077
          0.3308    0.3538    0.3769    0.4000    0.4231
          0.4462    0.4692    0.4923    0.5154    0.5385
          0.5615    0.5846    0.6077    0.6308    0.6538
          0.6769    0.7000    0.7231    0.7462    0.7692
          0.7923    0.8154    0.8385    0.8615    0.8846
          0.9077    0.9308    0.9538    0.9769    1.0000

Transect Channel-overflow2a
Area:
          0.0031    0.0061    0.0092    0.0122    0.0153
          0.0183    0.0214    0.0244    0.0277    0.0319
          0.0370    0.0432    0.0503    0.0584    0.0675
          0.0775    0.0885    0.1005    0.1135    0.1275
          0.1424    0.1583    0.1752    0.1930    0.2119
          0.2317    0.2525    0.2742    0.2970    0.3207
          0.3454    0.3710    0.3977    0.4253    0.4539
          0.4835    0.5140    0.5455    0.5780    0.6115
          0.6460    0.6814    0.7178    0.7552    0.7936
          0.8329    0.8732    0.9145    0.9568    1.0000
Hrad:
          0.0716    0.1409    0.2081    0.2733    0.3366
          0.3980    0.4577    0.5156    0.5711    0.6060
          0.6239    0.6314    0.6333    0.6326    0.6314
          0.6305    0.6306    0.6318    0.6343    0.6381
          0.6429    0.6489    0.6558    0.6635    0.6720
          0.6812    0.6910    0.7014    0.7122    0.7235
          0.7352    0.7473    0.7597    0.7724    0.7853
          0.7985    0.8119    0.8256    0.8394    0.8533
          0.8675    0.8817    0.8961    0.9107    0.9253
          0.9401    0.9549    0.9699    0.9849    1.0000
Width:
          0.0698    0.0698    0.0698    0.0698    0.0698
          0.0698    0.0698    0.0698    0.0847    0.1070
          0.1293    0.1516    0.1740    0.1963    0.2186
          0.2409    0.2633    0.2856    0.3079    0.3302
          0.3526    0.3749    0.3972    0.4195    0.4419
          0.4642    0.4865    0.5088    0.5312    0.5535
          0.5758    0.5981    0.6205    0.6428    0.6651
          0.6874    0.7098    0.7321    0.7544    0.7767
          0.7991    0.8214    0.8437    0.8660    0.8884
          0.9107    0.9330    0.9553    0.9777    1.0000

**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......       115.176         1.688
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........        57.564         0.844
Surface Runoff ...........        55.546         0.814
Final Surface Storage ....         2.636         0.039
Continuity Error (%) .....        -0.494


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      10^6 gal
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......        55.546        18.100
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........        54.630        17.802
Internal Outflow .........         1.244         0.405
Storage Losses ...........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         0.013         0.004
Continuity Error (%) .....        -0.615


*******************************
Highest Flow Instability Indexes
*******************************
Link C7 (4)
Link C34 (4)
Link C35 (4)
Link C13 (3)
Link C32 (3)


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :   300.00 sec
Average Time Step           :   300.00 sec
Maximum Time Step           :   300.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.07


***************************
Subcatchment Runoff Summary
***************************

  ---------------------------------------------------------------------------------------------------
----------
                              Total      Total      Total      Total      Total       Total
Peak  Runoff
                             Precip      Runon       Evap      Infil     Runoff      Runoff
Runoff   Coeff
  Subcatchment                  in         in         in         in         in    10^6 gal
CFS
  ---------------------------------------------------------------------------------------------------
----------
  FX23                        1.69       0.00       0.00       0.70       0.95        0.50
43.59   0.565
  FX26                        1.69       0.00       0.00       0.94       0.72        0.83
67.97   0.427
```

```
  FX24                        1.69       0.00       0.00       0.67       0.98       0.36
32.12   0.582
  FX07                        1.69       0.00       0.00       0.55       1.10       0.87
78.34   0.650
  FX09                        1.69       0.00       0.00       0.54       1.11       0.39
35.25   0.656
  FX28                        1.69       0.00       0.00       0.93       0.73       0.69
55.71   0.435
  FX29                        1.69       0.00       0.00       0.89       0.77       0.89
74.32   0.455
  FX17                        1.69       0.00       0.00       0.57       1.08       0.35
31.02   0.637
  FX11                        1.69       0.00       0.00       0.19       1.44       0.67
64.43   0.852
  FX31                        1.69       0.00       0.00       0.88       0.77       1.52
127.93   0.459
  FX34                        1.69       0.00       0.00       1.26       0.42       0.76
42.77   0.248
  FX33                        1.69       0.00       0.00       0.95       0.71       0.56
45.97   0.423
  FX32                        1.69       0.00       0.00       0.93       0.73       0.77
64.13   0.432
  FX18                        1.69       0.00       0.00       1.29       0.38       0.45
30.78   0.226
  FX01                        1.69       0.00       0.00       1.23       0.44       0.25
19.46   0.262
  FX02                        1.69       0.00       0.00       1.21       0.46       0.46
36.55   0.273
  FX35                        1.69       0.00       0.00       0.95       0.72       0.56
44.65   0.424
  FX06                        1.69       0.00       0.00       0.61       1.04       0.77
69.09   0.615
  FX25                        1.69       0.00       0.00       0.81       0.85       0.54
46.41   0.502
  FX22                        1.69       0.00       0.00       0.57       1.08       0.15
13.66   0.638
  FX30                        1.69       0.00       0.00       1.10       0.58       0.14
9.47   0.341
  FX10                        1.69       0.00       0.00       0.04       1.57       0.29
29.01   0.931
  FX15                        1.69       0.00       0.00       0.41       1.23       0.46
42.74   0.726
  FX03                        1.69       0.00       0.00       0.18       1.45       0.76
62.12   0.856
  FX04                        1.69       0.00       0.00       0.18       1.44       0.43
36.07   0.855
  FX19                        1.69       0.00       0.00       0.95       0.72       0.25
20.67   0.425
  FX20                        1.69       0.00       0.00       1.10       0.57       0.20
14.42   0.340
  FX08                        1.69       0.00       0.00       0.54       1.10       0.19
17.13   0.654
  FX05                        1.69       0.00       0.00       0.15       1.47       0.20
18.79   0.871
  FX13                        1.69       0.00       0.00       0.52       1.12       0.20
18.26   0.666
  FX16                        1.69       0.00       0.00       0.31       1.32       1.09
99.90   0.784
  FX12                        1.69       0.00       0.00       0.32       1.31       0.21
20.00   0.776
  FX14                        1.69       0.00       0.00       0.51       1.13       0.30
27.67   0.672
  FX21                        1.69       0.00       0.00       1.04       0.64       0.09
6.49   0.381
  FX27                        1.69       0.00       0.00       1.11       0.56       0.61
46.94   0.333
  FX36                        1.69       0.00       0.00       0.12       1.54       0.34
32.67   0.915

  ******************
  Node Depth Summary
  ******************

  -----------------------------------------------------------------------
                                  Average  Maximum  Maximum  Time of Max
                                    Depth    Depth      HGL   Occurrence
  Node                 Type         Feet     Feet     Feet  days hr:min
  -----------------------------------------------------------------------
  J-FX31               JUNCTION     0.08     1.93  6959.93     0  00:35
  J-FX32               JUNCTION     0.09     1.67  6959.67     0  00:40
  J-FX28               JUNCTION     0.11     2.32  6866.32     0  00:40
  J-FX27               JUNCTION     0.10     2.07  6867.07     0  00:40
  J-FX29               JUNCTION     0.05     1.35  6981.35     0  00:35
  J-FX34               JUNCTION     0.06     1.46  7151.46     0  00:35
  J-FX33               JUNCTION     0.10     2.24  7068.24     0  00:35
  J-FX35               JUNCTION     0.05     1.46  7155.46     0  00:35
  J-FX18               JUNCTION     0.07     1.40  6835.40     0  00:35
  J-FX14               JUNCTION     0.09     1.91  6753.91     0  00:35
  J-FX07               JUNCTION     0.27     3.00  6745.00     0  00:40
  J-FX08               JUNCTION     0.27     3.00  6747.00     0  00:40
  J-FX11               JUNCTION     0.23     2.87  6750.87     0  00:50
  J-FX24               JUNCTION     0.03     0.62  6894.62     0  00:35
  J-FX23               JUNCTION     0.03     0.79  6904.79     0  00:35
  J-FX19               JUNCTION     0.01     0.37  6792.37     0  00:40
  J-FX20               JUNCTION     0.12     2.28  6793.28     0  00:45
  J-FX22               JUNCTION     0.02     0.37  6898.37     0  00:35
  J-FX02               JUNCTION     0.03     0.81  6728.81     0  00:35
  J-FX26               JUNCTION     0.02     0.65  6902.65     0  00:35
  J-FX30               JUNCTION     0.02     0.39  6886.39     0  00:35
  J-FX21               JUNCTION     0.02     0.38  6904.38     0  00:40
  J-FX25               JUNCTION     0.07     1.42  6843.42     0  00:35
  J-FX06               JUNCTION     0.06     1.39  6741.39     0  00:40
  J3                   JUNCTION     0.11     2.30  6836.30     0  00:45
  J-FX17               JUNCTION     0.09     1.12  6857.12     0  00:35
  J-FX13               JUNCTION     0.03     0.69  6830.69     0  00:35
  J-FX05               JUNCTION     0.16     2.38  6722.38     0  00:45
  J-FX16               JUNCTION     0.10     2.21  6768.21     0  00:35
  J-FX15               JUNCTION     0.06     1.52  6759.52     0  00:35
  J-FX10               JUNCTION     0.12     2.30  6746.30     0  00:45
  J-FX12               JUNCTION     0.11     2.36  6753.36     0  00:35
  J-FX03               JUNCTION     0.17     2.53  6738.53     0  00:40
  J-FX04               JUNCTION     0.19     2.45  6732.45     0  00:50
  J-FX01               JUNCTION     0.04     0.64  6721.64     0  00:45
  J1                   JUNCTION     0.09     2.14  6950.14     0  00:35
  J2                   JUNCTION     0.12     2.30  6763.30     0  00:45
  J-FX09               JUNCTION     0.00     0.00  6749.00     0  00:00
  J4                   JUNCTION     0.03     0.93  6848.93     0  00:35
  J5                   JUNCTION     0.06     1.36  6795.36     0  00:40
  J6                   JUNCTION     0.05     1.44  7053.44     0  00:40
  J7                   JUNCTION     0.10     2.23  7040.23     0  00:40
  J-FX36               JUNCTION     0.25     4.73  6718.73     0  00:45
  J8                   JUNCTION     0.22     4.20  6724.20     0  00:45
  J9                   JUNCTION     0.14     2.38  6744.38     0  00:40
  OF1                  OUTFALL      0.25     4.71  6714.71     0  00:50
```

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal
J-FX31	JUNCTION	127.93	143.44	0 00:35	1.525	2.087
J-FX32	JUNCTION	64.13	99.86	0 00:40	0.768	2.085
J-FX28	JUNCTION	55.71	342.06	0 00:40	0.690	6.372
J-FX27	JUNCTION	46.94	303.77	0 00:40	0.609	5.682
J-FX29	JUNCTION	74.32	74.32	0 00:35	0.894	0.894
J-FX34	JUNCTION	42.77	42.77	0 00:35	0.759	0.759
J-FX33	JUNCTION	45.97	74.32	0 00:35	0.557	1.316
J-FX35	JUNCTION	44.65	44.65	0 00:35	0.561	0.561
J-FX18	JUNCTION	30.78	57.55	0 00:35	0.445	0.790
J-FX14	JUNCTION	27.67	61.62	0 00:35	0.302	0.760
J-FX07	JUNCTION	78.34	413.73	0 00:40	0.871	9.728
J-FX08	JUNCTION	17.13	439.76	0 00:50	0.189	9.251
J-FX11	JUNCTION	64.43	429.31	0 00:50	0.668	9.062
J-FX24	JUNCTION	32.12	32.12	0 00:35	0.363	0.363
J-FX23	JUNCTION	43.59	43.59	0 00:35	0.500	0.500
J-FX19	JUNCTION	20.67	26.62	0 00:35	0.254	0.395
J-FX20	JUNCTION	14.42	367.83	0 00:45	0.200	7.060
J-FX22	JUNCTION	13.66	13.66	0 00:35	0.152	0.152
J-FX02	JUNCTION	36.55	36.55	0 00:35	0.461	0.461
J-FX26	JUNCTION	67.97	67.97	0 00:35	0.827	0.827
J-FX30	JUNCTION	9.47	9.47	0 00:35	0.139	0.139
J-FX21	JUNCTION	6.49	6.49	0 00:40	0.091	0.091
J-FX25	JUNCTION	46.41	103.43	0 00:35	0.544	1.372
J-FX06	JUNCTION	69.09	156.04	0 00:35	0.775	2.147
J3	JUNCTION	0.00	340.74	0 00:45	0.000	6.463
J-FX17	JUNCTION	31.02	31.02	0 00:35	0.345	0.345
J-FX13	JUNCTION	18.26	18.26	0 00:35	0.202	0.202
J-FX05	JUNCTION	18.79	656.51	0 00:45	0.195	14.585
J-FX16	JUNCTION	99.90	99.90	0 00:35	1.089	1.089
J-FX15	JUNCTION	42.74	42.74	0 00:35	0.459	0.459
J-FX10	JUNCTION	29.01	92.97	0 00:45	0.292	1.469
J-FX12	JUNCTION	20.00	92.45	0 00:35	0.210	1.173
J-FX03	JUNCTION	62.12	116.60	0 00:40	0.759	1.876
J-FX04	JUNCTION	36.07	110.47	0 00:50	0.432	2.320
J-FX01	JUNCTION	19.46	35.71	0 00:40	0.247	0.725
J1	JUNCTION	0.00	290.48	0 00:35	0.000	5.068
J2	JUNCTION	0.00	365.28	0 00:45	0.000	7.213
J-FX09	JUNCTION	35.25	35.25	0 00:35	0.388	0.388
J4	JUNCTION	0.00	71.95	0 00:35	0.000	0.866
J5	JUNCTION	0.00	53.89	0 00:40	0.000	0.791
J6	JUNCTION	0.00	39.94	0 00:40	0.000	0.561
J7	JUNCTION	0.00	73.05	0 00:40	0.000	1.317
J-FX36	JUNCTION	32.67	695.24	0 00:45	0.336	15.650
J8	JUNCTION	0.00	690.83	0 00:45	0.000	15.311
J9	JUNCTION	0.00	502.33	0 00:40	0.000	11.198
OF1	OUTFALL	0.00	762.30	0 00:50	0.000	17.801

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
J-FX07	JUNCTION	0.33	0.000	0.000
J-FX08	JUNCTION	0.42	0.000	0.000
J-FX09	JUNCTION	24.08	0.000	0.000

****
Node Flooding Summary
****

Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CFS	Time of Max Occurrence days hr:min	Total Flood Volume 10^6 gal	Maximum Ponded Volume 1000 ft3
J-FX08	0.42	68.98	0 00:50	0.405	0.000

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume 10^6 gal
OF1	73.70	37.24	762.30	17.801
System	73.70	37.24	762.30	17.801

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
C1	CHANNEL	24.69	0 00:45	2.16	0.01	0.06
C2	CHANNEL	35.46	0 00:40	2.93	0.00	0.06
C3	CHANNEL	98.42	0 00:40	7.10	0.07	0.46
C4	CHANNEL	57.10	0 00:40	6.97	0.01	0.10
C5	CHANNEL	40.71	0 00:40	4.66	0.04	0.26
C6	CHANNEL	39.94	0 00:40	5.14	0.04	0.24
C7	CHANNEL	66.87	0 00:35	6.14	0.02	0.22
C8	CHANNEL	133.20	0 00:35	4.89	0.04	0.32
C9	CHANNEL	103.78	0 00:40	4.84	0.03	0.28
C10	DUMMY	303.77	0 00:40			
C11	DUMMY	26.62	0 00:35			
C12	CHANNEL	6.66	0 00:40	4.35	0.00	0.07
C15	CHANNEL	365.65	0 00:50	5.57	0.09	0.38
C14	CHANNEL	11.87	0 00:40	4.65	0.00	0.06

C13	CHANNEL	434.09	0	00:50	4.67	0.81	0.96
C16	CHANNEL	362.23	0	00:40	3.42	1.00	1.00
C17	CHANNEL	92.94	0	00:45	3.17	0.17	0.68
C18	CHANNEL	505.32	0	00:45	7.06	0.09	0.39
C19	CHANNEL	106.58	0	00:50	3.67	0.18	0.70
C20	CHANNEL	36.53	0	00:40	2.68	0.07	0.48
C21	CHANNEL	58.22	0	00:35	2.40	0.14	0.63
C22	CHANNEL	96.72	0	00:50	2.12	0.33	0.81
C23	CHANNEL	15.81	0	00:40	4.56	0.01	0.22
C24	CHANNEL	82.94	0	00:45	2.61	0.24	0.76
C25	CHANNEL	70.26	0	00:45	3.34	0.14	0.62
C26	CHANNEL	8.86	0	00:40	3.08	0.00	0.06
C27	CHANNEL	26.77	0	00:35	3.96	0.00	0.16
C28	CHANNEL	53.89	0	00:40	4.12	0.07	0.44
C29	CHANNEL	358.18	0	00:45	5.58	0.08	0.38
C31	CHANNEL	335.57	0	00:45	5.08	0.09	0.38
C32	CHANNEL	341.99	0	00:45	5.36	0.08	0.38
C33	CHANNEL	272.35	0	00:40	5.54	0.07	0.35
C34	CHANNEL	30.76	0	00:35	6.24	0.00	0.10
C35	CHANNEL	41.19	0	00:35	6.60	0.01	0.13
C36	CHANNEL	66.49	0	00:40	5.28	0.01	0.14
C37	DUMMY	35.25	0	00:35			
C38	CHANNEL	36.39	0	00:45	4.63	0.04	0.24
C39	DUMMY	156.04	0	00:35			
C30	CHANNEL	690.77	0	00:50	5.76	0.14	0.47
C41	CHANNEL	48.78	0	00:40	4.72	0.05	0.41
C42	CHANNEL	73.05	0	00:40	3.66	0.12	0.40
C43	CHANNEL	70.32	0	00:45	5.31	0.02	0.23
C40	CHANNEL	683.43	0	00:45	7.03	0.11	0.42
C44	DUMMY	656.51	0	00:45			
C45	DUMMY	413.73	0	00:40			

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C10	0.01	0.01	0.01	24.08	0.01
C11	0.01	0.01	0.01	24.08	0.01
C16	0.33	0.33	0.33	0.33	0.33
C37	0.01	0.01	0.01	24.08	0.01
C39	0.01	0.01	0.01	24.08	0.01
C44	0.01	0.01	0.01	24.08	0.01
C45	0.01	0.01	0.01	24.08	0.01

Analysis begun on: Fri Dec 28 08:39:38 2012
Analysis ended on: Fri Dec 28 08:39:38 2012
Total elapsed time: < 1 sec

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.022)

Pine Grove/ Mt. Werner Road Basin - Future Conditions
UDFCD gauge 100 year 2 hr
Initially labeled Missing Basin (MI)

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... KINWAVE
Starting Date JUL-05-2012 00:00:00
Ending Date JUL-06-2012 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 300.00 sec

WARNING 04: minimum elevation drop used for Conduit C24

WARNING 04: minimum elevation drop used for Conduit C39

WARNING 04: minimum elevation drop used for Conduit C40

****
Element Count
****
Number of rain gages 3
Number of subcatchments ... 35
Number of nodes 41
Number of links 40
Number of pollutants 0
Number of land uses 0

****
Raingage Summary
****

Name	Data Source	Data Type	Recording Interval
rg100	SCS_24h_Type_II_2.8in	INTENSITY	15 min.
UDFCD100	UDFCD100	VOLUME	5 min.
UDFCD5	Timeseries1	VOLUME	5 min.

****
Subcatchment Summary
****

Name	Area	Width	%Imperv	%Slope	Rain Gage	Outlet
MI15	22.66	2262.62	82.60	6.3600	UDFCD100	J-MI15
MI08	41.81	2698.89	89.10	5.7800	UDFCD100	J-MI08
MI01	25.18	3357.65	52.80	1.2800	UDFCD100	J-MI01
MI33	23.30	3784.80	42.40	16.9700	UDFCD100	J-MI33
MI32	17.52	3651.76	27.80	8.1100	UDFCD100	J-MI32
MI31	9.01	1568.04	42.70	6.6900	UDFCD100	J-MI31
MI28	23.17	3172.42	37.20	8.3200	UDFCD100	J-MI28
MI27	10.63	2403.44	58.40	6.6500	UDFCD100	J-MI27
MI26	14.91	1587.55	75.20	5.4400	UDFCD100	J-MI26
MI12	20.27	2655.23	71.50	3.4300	UDFCD100	J-MI12
MI25	14.11	2879.89	68.50	6.8600	UDFCD100	J-MI25
MI14	41.70	2609.58	59.00	3.0600	UDFCD100	J-MI14
MI05	8.20	1115.16	70.30	3.7400	UDFCD100	J-MI05
MI19	11.79	1715.26	71.90	7.3100	UDFCD100	J-MI19
MI17	21.78	2301.03	44.10	8.6000	UDFCD100	J-MI17
MI03	15.42	3583.48	55.30	2.3400	UDFCD100	J-MI03
MI16	23.04	2459.38	60.30	2.5300	UDFCD100	J-MI16
MI21	8.64	1505.61	74.00	13.6200	UDFCD100	J-MI21
MI29	7.96	1523.28	49.40	19.6100	UDFCD100	J-MI29
MI30	49.14	4528.85	52.20	10.8100	UDFCD100	J-MI30
MI24	7.95	1667.01	62.70	6.0400	UDFCD100	J-MI24
MI23	27.19	3162.47	64.60	10.6900	UDFCD100	J-MI23
MI06	11.72	2267.41	78.90	2.3800	UDFCD100	J-MI06
MI13	3.02	771.14	95.50	3.6500	UDFCD100	J-MI13
MI20	16.47	1997.47	75.50	8.8100	UDFCD100	J-MI20
MI18	7.74	1198.69	72.30	2.6600	UDFCD100	J-MI18
MI22	10.35	2080.69	78.50	10.7200	UDFCD100	J-MI22
MI11	7.01	3478.06	69.70	4.0230	UDFCD100	J-MI11
MI10	13.37	1292.05	59.00	8.4200	UDFCD100	J-MI10
MI09	24.76	2633.45	91.30	2.5800	UDFCD100	J-MI09
MI07	36.61	5024.40	83.30	3.9800	UDFCD100	J-MI07
MI02	31.88	3628.08	49.80	1.8700	UDFCD100	J-MI02
MI04	8.92	2991.44	97.90	2.5400	UDFCD100	J-MI04
MI35	7.08	1708.37	95.30	3.6500	UDFCD100	J-MI35
MI34	2.62	730.10	95.70	3.6500	UDFCD100	J-MI34

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Node Summary
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Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
J4	JUNCTION	6878.00	6.00	0.0	
J1	JUNCTION	6752.00	10.00	0.0	
J-MI09	JUNCTION	6802.00	5.50	0.0	
J-MI11	JUNCTION	6864.00	5.50	0.0	
J-MI03	JUNCTION	6762.00	6.00	0.0	
J-MI04	JUNCTION	6778.00	6.00	0.0	
J-MI21	JUNCTION	7000.00	6.00	0.0	
J-MI31	JUNCTION	7016.00	6.00	0.0	
J-MI22	JUNCTION	7000.00	6.00	0.0	
J-MI19	JUNCTION	6910.00	5.50	0.0	
J-MI33	JUNCTION	7100.00	6.00	0.0	
J-MI32	JUNCTION	6978.00	6.00	0.0	
J-MI28	JUNCTION	6882.00	6.00	0.0	

J-MI30	JUNCTION	6906.00	6.00	0.0
J-MI29	JUNCTION	7064.00	5.50	0.0
J-MI24	JUNCTION	6844.00	6.00	0.0
J-MI25	JUNCTION	6850.00	5.50	0.0
J-MI23	JUNCTION	7014.00	6.00	0.0
J-MI18	JUNCTION	6786.00	6.00	0.0
J-MI15	JUNCTION	6794.00	6.00	0.0
J-MI20	JUNCTION	6798.00	6.00	0.0
J-MI17	JUNCTION	6872.00	5.50	0.0
J-MI16	JUNCTION	6780.00	6.00	0.0
J-MI05	JUNCTION	6820.00	5.50	0.0
J-MI06	JUNCTION	6812.00	6.00	0.0
J-MI07	JUNCTION	6764.00	6.00	0.0
J-MI08	JUNCTION	6763.00	6.00	0.0
J-MI27	JUNCTION	6960.00	5.50	0.0
J-MI26	JUNCTION	6908.00	5.50	0.0
J-MI12	JUNCTION	6860.00	5.50	0.0
J-MI10	JUNCTION	6790.00	5.50	0.0
J-MI02	JUNCTION	6760.00	10.00	0.0
J-MI35	JUNCTION	6838.00	2.00	0.0
J-MI14	JUNCTION	6814.00	6.00	0.0
J-MI34	JUNCTION	6838.00	2.00	0.0
J-MI13	JUNCTION	6836.00	5.50	0.0
J2	JUNCTION	6933.00	6.00	0.0
J3	JUNCTION	6778.00	10.00	0.0
J5	JUNCTION	6762.00	10.00	0.0
J-MI01	JUNCTION	6750.00	5.50	0.0
OF1	OUTFALL	6750.00	10.00	0.0

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Link Summary
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Name	From Node	To Node	Type	Length	%Slope	Roughness
C27	J-MI23	J-MI14	CONDUIT	784.1	26.3781	0.0730
C25	J-MI25	J-MI24	CONDUIT	138.1	4.3475	0.0375
C2	J-MI09	J-MI01	CONDUIT	1027.1	5.0693	0.0730
C22	J-MI26	J-MI12	CONDUIT	858.5	5.5996	0.0375
C1	J-MI02	OF1	CONDUIT	167.4	5.9844	0.0350
C21	J-MI12	J-MI10	CONDUIT	716.3	9.8194	0.0730
C20	J-MI11	J-MI10	CONDUIT	658.8	11.3037	0.0730
C23	J-MI27	J-MI26	CONDUIT	1032.8	5.0411	0.0730
C18	J-MI21	J-MI18	CONDUIT	1771.9	12.1667	0.0730
C17	J-MI22	J-MI15	CONDUIT	1350.1	15.4384	0.0730
C19	J-MI10	J-MI08	CONDUIT	1316.2	2.0518	0.0375
C13	J-MI05	J-MI06	CONDUIT	982.6	0.8142	0.0375
C15	J-MI15	J-MI18	CONDUIT	591.8	1.3520	0.0375
C29	J-MI29	J-MI23	CONDUIT	1116.6	4.4826	0.0375
C11	J-MI18	J-MI16	CONDUIT	875.7	0.6852	0.0375
C10	J-MI19	J-MI17	CONDUIT	705.8	5.3917	0.0730
C12	J-MI06	J-MI03	CONDUIT	778.9	6.4324	0.0375
C7	J3	J5	CONDUIT	3069.9	0.5212	0.0350
C9	J-MI16	J-MI04	CONDUIT	304.8	0.6561	0.0375
C14	J-MI20	J-MI15	CONDUIT	44.9	8.9422	0.0375
C26	J-MI14	J-MI15	CONDUIT	1054.5	1.8969	0.0375
C8	J-MI17	J3	CONDUIT	678.1	13.9974	0.0730
C4	J-MI08	J1	CONDUIT	697.9	1.5765	0.0375
C3	J-MI07	J-MI08	CONDUIT	62.6	1.5987	0.0375
C6	J5	J1	CONDUIT	503.1	1.9880	0.0350
C5	J1	OF1	CONDUIT	2630.8	0.0760	0.0350
C30	J-MI28	J4	CONDUIT	108.7	3.6837	0.0375
C31	J-MI30	J4	CONDUIT	421.5	6.6580	0.0730
C32	J4	J-MI24	CONDUIT	705.0	4.8285	0.0375
C33	J-MI32	J-MI28	CONDUIT	1227.5	7.8450	0.0730
C34	J-MI33	J-MI32	CONDUIT	1448.3	8.4540	0.0730
C35	J-MI35	J-MI13	CONDUIT	209.6	0.9542	0.0187
C16	J-MI13	J-MI14	CONDUIT	1127.5	1.9516	0.0375
C37	J-MI34	J-MI10	CONDUIT	1282.2	3.7461	0.0187
C28	J-MI24	J-MI14	CONDUIT	1171.6	2.5614	0.0375
C36	J2	J-MI25	CONDUIT	1276.7	6.5151	0.0375
C38	J-MI31	J2	CONDUIT	750.9	11.1210	0.0730
C24	J-MI04	J3	CONDUIT	28.8	0.0035	0.0100
C39	J-MI03	J5	CONDUIT	19.7	0.0051	0.0100
C40	J-MI01	OF1	CONDUIT	25.2	0.0040	0.0100

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Cross Section Summary
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Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
C27	Channel-overflow2a	6.00	590.00	1.64	215.00	1	8591.87
C25	channel-main2nd	5.50	144.00	2.08	48.00	1	1936.90
C2	channel-main1a	5.50	122.00	1.60	44.00	1	763.74
C22	channel-main2nd	5.50	144.00	2.08	48.00	1	2198.20
C1	largeriver	10.00	824.00	3.15	152.00	1	18375.09
C21	channel-main1a	5.50	122.00	1.60	44.00	1	1062.96
C20	channel-main1a	5.50	122.00	1.60	44.00	1	1140.47
C23	channel-main1a	5.50	122.00	1.60	44.00	1	761.61
C18	channel-overflow1a	6.00	548.00	1.40	208.00	1	4866.44
C17	channel-overflow1a	6.00	548.00	1.40	208.00	1	5481.84
C19	channel-main2nd	5.50	144.00	2.08	48.00	1	1330.62
C13	channel-main1st	5.50	122.00	1.60	44.00	1	596.88
C15	channel-overflow2n	6.00	590.00	1.65	215.00	1	3793.44
C29	channel-main2nd	5.50	144.00	2.08	48.00	1	1966.76
C11	channel-overflow2n	6.00	590.00	1.65	215.00	1	2700.61
C10	channel-main1a	5.50	122.00	1.60	44.00	1	787.65
C12	channel-overflow2n	6.00	590.00	1.65	215.00	1	8274.44
C7	largeriver	10.00	824.00	3.15	152.00	1	5422.75
C9	channel-overflow2n	6.00	590.00	1.65	215.00	1	2642.67
C14	channel-overflow2n	6.00	590.00	1.65	215.00	1	9756.07
C26	channel-overflow2n	6.00	590.00	1.65	215.00	1	4493.41
C8	channel-main1a	5.50	122.00	1.60	44.00	1	1269.10
C4	channel-overflow2n	6.00	590.00	1.65	215.00	1	4096.32
C3	channel-overflow1s	6.00	548.00	1.40	208.00	1	3441.50
C6	largeriver	10.00	824.00	3.15	152.00	1	10590.63
C5	largeriver	10.00	824.00	3.15	152.00	1	2071.04
C30	channel-overflow2n	6.00	590.00	1.65	215.00	1	6261.73
C31	Channel-overflow2a	6.00	590.00	1.64	215.00	1	4316.55
C32	channel-overflow2n	6.00	590.00	1.65	215.00	1	7168.95
C33	channel-overflow1a	6.00	548.00	1.40	208.00	1	3907.70
C34	channel-overflow1a	6.00	548.00	1.40	208.00	1	4056.55
C35	street-main	2.00	79.44	0.26	116.50	1	249.69
C16	channel-main2nd	5.50	144.00	2.08	48.00	1	1297.74
C37	street-main	2.00	79.44	0.26	116.50	1	494.74
C28	channel-overflow2n	6.00	590.00	1.65	215.00	1	5221.44
C36	channel-main2nd	5.50	144.00	2.08	48.00	1	2371.09
C38	channel-overflow1a	6.00	548.00	1.40	208.00	1	4652.60
C24	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C39	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C40	DUMMY	0.00	0.00	0.00	0.00	1	0.00

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Transect Summary
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Transect channel-main1st
Area:
          0.0036    0.0072    0.0108    0.0144    0.0181
          0.0225    0.0276    0.0336    0.0403    0.0479
          0.0562    0.0653    0.0752    0.0860    0.0975
          0.1098    0.1228    0.1367    0.1514    0.1669
          0.1832    0.2002    0.2181    0.2367    0.2561
          0.2764    0.2974    0.3192    0.3418    0.3652
          0.3894    0.4144    0.4402    0.4668    0.4942
          0.5223    0.5513    0.5811    0.6116    0.6430
          0.6751    0.7080    0.7417    0.7762    0.8116
          0.8477    0.8846    0.9222    0.9607    1.0000
Hrad:
          0.0649    0.1233    0.1763    0.2244    0.2721
          0.3133    0.3449    0.3701    0.3912    0.4097
          0.4266    0.4424    0.4575    0.4722    0.4866
          0.5009    0.5152    0.5294    0.5435    0.5577
          0.5720    0.5863    0.6006    0.6149    0.6293
          0.6438    0.6583    0.6728    0.6874    0.7020
          0.7167    0.7314    0.7461    0.7608    0.7756
          0.7904    0.8053    0.8201    0.8350    0.8499
          0.8649    0.8798    0.8948    0.9098    0.9248
          0.9398    0.9548    0.9699    0.9849    1.0000
Width:
          0.0909    0.0909    0.0909    0.0909    0.1000
          0.1200    0.1400    0.1600    0.1800    0.2000
          0.2200    0.2400    0.2600    0.2800    0.3000
          0.3200    0.3400    0.3600    0.3800    0.4000
          0.4200    0.4400    0.4600    0.4800    0.5000
          0.5200    0.5400    0.5600    0.5800    0.6000
          0.6200    0.6400    0.6600    0.6800    0.7000
          0.7200    0.7400    0.7600    0.7800    0.8000
          0.8200    0.8400    0.8600    0.8800    0.9000
          0.9200    0.9400    0.9600    0.9800    1.0000

Transect channel-main2nd
Area:
          0.0061    0.0122    0.0183    0.0244    0.0306
          0.0374    0.0448    0.0529    0.0617    0.0711
          0.0812    0.0920    0.1035    0.1156    0.1284
          0.1419    0.1560    0.1708    0.1863    0.2025
          0.2193    0.2368    0.2550    0.2739    0.2934
          0.3136    0.3345    0.3560    0.3782    0.4011
          0.4247    0.4489    0.4738    0.4994    0.5256
          0.5525    0.5801    0.6084    0.6373    0.6669
          0.6972    0.7282    0.7598    0.7921    0.8251
          0.8587    0.8930    0.9280    0.9637    1.0000
Hrad:
          0.0513    0.1000    0.1462    0.1901    0.2337
          0.2746    0.3105    0.3427    0.3717    0.3983
          0.4229    0.4458    0.4673    0.4876    0.5070
          0.5256    0.5434    0.5607    0.5774    0.5937
          0.6095    0.6251    0.6403    0.6552    0.6699
          0.6844    0.6987    0.7128    0.7267    0.7406
          0.7542    0.7678    0.7813    0.7946    0.8079
          0.8211    0.8342    0.8473    0.8603    0.8732
          0.8861    0.8989    0.9116    0.9244    0.9371
          0.9497    0.9623    0.9749    0.9875    1.0000
Width:
          0.1667    0.1667    0.1667    0.1667    0.1750
          0.1933    0.2117    0.2300    0.2483    0.2667
          0.2850    0.3033    0.3217    0.3400    0.3583
          0.3767    0.3950    0.4133    0.4317    0.4500
          0.4683    0.4867    0.5050    0.5233    0.5417
          0.5600    0.5783    0.5967    0.6150    0.6333
          0.6517    0.6700    0.6883    0.7067    0.7250
          0.7433    0.7617    0.7800    0.7983    0.8167
          0.8350    0.8533    0.8717    0.8900    0.9083
          0.9267    0.9450    0.9633    0.9817    1.0000

Transect channel-main3rd
Area:
          0.0080    0.0159    0.0239    0.0318    0.0398
          0.0483    0.0574    0.0671    0.0774    0.0882
          0.0996    0.1116    0.1242    0.1374    0.1511
          0.1655    0.1804    0.1959    0.2120    0.2287
          0.2459    0.2638    0.2822    0.3012    0.3208
          0.3410    0.3617    0.3830    0.4050    0.4275
          0.4506    0.4742    0.4985    0.5233    0.5487
          0.5747    0.6013    0.6285    0.6562    0.6846
          0.7135    0.7430    0.7731    0.8037    0.8350
          0.8668    0.8993    0.9323    0.9658    1.0000
Hrad:
          0.0437    0.0859    0.1267    0.1660    0.2052
          0.2427    0.2773    0.3093    0.3392    0.3672
          0.3936    0.4186    0.4424    0.4650    0.4867
          0.5075    0.5275    0.5469    0.5656    0.5837
          0.6013    0.6184    0.6351    0.6514    0.6673
          0.6829    0.6982    0.7132    0.7279    0.7424
          0.7567    0.7707    0.7846    0.7983    0.8118
          0.8252    0.8384    0.8514    0.8644    0.8772
          0.8899    0.9025    0.9150    0.9274    0.9397
          0.9519    0.9640    0.9761    0.9881    1.0000
Width:
          0.2308    0.2308    0.2308    0.2308    0.2385
          0.2554    0.2723    0.2892    0.3062    0.3231
          0.3400    0.3569    0.3738    0.3908    0.4077
          0.4246    0.4415    0.4585    0.4754    0.4923
          0.5092    0.5262    0.5431    0.5600    0.5769
          0.5938    0.6108    0.6277    0.6446    0.6615
          0.6785    0.6954    0.7123    0.7292    0.7462
          0.7631    0.7800    0.7969    0.8138    0.8308
          0.8477    0.8646    0.8815    0.8985    0.9154
          0.9323    0.9492    0.9662    0.9831    1.0000

Transect channel-overflow1s
Area:
          0.0018    0.0035    0.0053    0.0070    0.0088
          0.0105    0.0123    0.0140    0.0160    0.0190
          0.0230    0.0281    0.0342    0.0414    0.0496
          0.0589    0.0693    0.0806    0.0931    0.1066
          0.1211    0.1367    0.1533    0.1710    0.1898
          0.2096    0.2304    0.2523    0.2753    0.2993
          0.3243    0.3504    0.3776    0.4058    0.4350
          0.4653    0.4967    0.5291    0.5626    0.5971
          0.6326    0.6693    0.7069    0.7456    0.7854
          0.8262    0.8681    0.9110    0.9550    1.0000
Hrad:
          0.0827    0.1607    0.2344    0.3042    0.3703
          0.4331    0.4927    0.5495    0.6009    0.6143
          0.6032    0.5833    0.5633    0.5469    0.5350
          0.5276    0.5242    0.5241    0.5269    0.5320
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0.5390	0.5476	0.5576	0.5687	0.5807
0.5936	0.6072	0.6213	0.6360	0.6511
0.6667	0.6825	0.6987	0.7152	0.7319
0.7488	0.7659	0.7832	0.8007	0.8183
0.8360	0.8539	0.8718	0.8899	0.9080
0.9263	0.9446	0.9630	0.9815	1.0000

Width:

0.0385	0.0385	0.0385	0.0385	0.0385
0.0385	0.0385	0.0385	0.0538	0.0769
0.1000	0.1231	0.1462	0.1692	0.1923
0.2154	0.2385	0.2615	0.2846	0.3077
0.3308	0.3538	0.3769	0.4000	0.4231
0.4462	0.4692	0.4923	0.5154	0.5385
0.5615	0.5846	0.6077	0.6308	0.6538
0.6769	0.7000	0.7231	0.7462	0.7692
0.7923	0.8154	0.8385	0.8615	0.8846
0.9077	0.9308	0.9538	0.9769	1.0000

Transect channel-overflow2n

Area:

0.0031	0.0061	0.0092	0.0122	0.0153
0.0183	0.0214	0.0244	0.0277	0.0319
0.0370	0.0432	0.0503	0.0584	0.0675
0.0775	0.0885	0.1005	0.1135	0.1275
0.1424	0.1583	0.1752	0.1930	0.2119
0.2317	0.2525	0.2742	0.2970	0.3207
0.3454	0.3710	0.3977	0.4253	0.4539
0.4835	0.5140	0.5455	0.5780	0.6115
0.6460	0.6814	0.7178	0.7552	0.7936
0.8329	0.8732	0.9145	0.9568	1.0000

Hrad:

0.0714	0.1405	0.2075	0.2726	0.3357
0.3969	0.4564	0.5142	0.5695	0.6043
0.6222	0.6297	0.6317	0.6311	0.6299
0.6291	0.6292	0.6306	0.6332	0.6369
0.6419	0.6479	0.6548	0.6626	0.6711
0.6804	0.6902	0.7007	0.7116	0.7229
0.7346	0.7467	0.7592	0.7719	0.7849
0.7981	0.8115	0.8252	0.8390	0.8530
0.8672	0.8815	0.8959	0.9105	0.9252
0.9400	0.9548	0.9698	0.9849	1.0000

Width:

0.0698	0.0698	0.0698	0.0698	0.0698
0.0698	0.0698	0.0698	0.0847	0.1070
0.1293	0.1516	0.1740	0.1963	0.2186
0.2409	0.2633	0.2856	0.3079	0.3302
0.3526	0.3749	0.3972	0.4195	0.4419
0.4642	0.4865	0.5088	0.5312	0.5535
0.5758	0.5981	0.6205	0.6428	0.6651
0.6874	0.7098	0.7321	0.7544	0.7767
0.7991	0.8214	0.8437	0.8660	0.8884
0.9107	0.9330	0.9553	0.9777	1.0000

Transect channel-overflow3r

Area:

0.0065	0.0130	0.0195	0.0259	0.0324
0.0389	0.0454	0.0519	0.0586	0.0659
0.0741	0.0831	0.0928	0.1033	0.1146
0.1267	0.1395	0.1531	0.1675	0.1827
0.1987	0.2154	0.2329	0.2512	0.2703
0.2901	0.3107	0.3322	0.3543	0.3773
0.4010	0.4256	0.4509	0.4769	0.5038
0.5314	0.5598	0.5890	0.6190	0.6497
0.6813	0.7136	0.7466	0.7805	0.8151
0.8506	0.8867	0.9237	0.9615	1.0000

Hrad:

0.0383	0.0761	0.1135	0.1505	0.1870
0.2231	0.2588	0.2941	0.3179	0.3344
0.3497	0.3643	0.3785	0.3926	0.4068
0.4211	0.4356	0.4503	0.4652	0.4804
0.4959	0.5115	0.5274	0.5434	0.5596
0.5760	0.5926	0.6093	0.6262	0.6432
0.6603	0.6775	0.6948	0.7123	0.7298
0.7474	0.7650	0.7828	0.8006	0.8185
0.8364	0.8544	0.8724	0.8905	0.9087
0.9269	0.9451	0.9634	0.9817	1.0000

Width:

0.1667	0.1667	0.1667	0.1667	0.1667
0.1667	0.1667	0.1667	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect street-main

Area:

0.0001	0.0005	0.0011	0.0019	0.0030
0.0044	0.0059	0.0077	0.0098	0.0121
0.0146	0.0174	0.0204	0.0237	0.0272
0.0309	0.0349	0.0392	0.0436	0.0483
0.0533	0.0585	0.0639	0.0696	0.0755
0.0834	0.0948	0.1098	0.1284	0.1506
0.1763	0.2051	0.2356	0.2677	0.3013
0.3366	0.3735	0.4121	0.4522	0.4939
0.5373	0.5823	0.6288	0.6770	0.7268
0.7782	0.8313	0.8859	0.9421	1.0000

Hrad:

0.0120	0.0240	0.0360	0.0480	0.0600
0.0720	0.0840	0.0960	0.1080	0.1200
0.1320	0.1440	0.1560	0.1680	0.1800
0.1920	0.2040	0.2160	0.2280	0.2400
0.2520	0.2641	0.2761	0.2881	0.3001
0.2586	0.2358	0.2281	0.2323	0.2455
0.2656	0.3012	0.3438	0.3882	0.4333
0.4782	0.5226	0.5660	0.6084	0.6496
0.6896	0.7285	0.7661	0.8026	0.8380
0.8723	0.9057	0.9380	0.9694	1.0000

Width:

0.0041	0.0082	0.0124	0.0165	0.0206
0.0247	0.0288	0.0330	0.0371	0.0412
0.0453	0.0494	0.0536	0.0577	0.0618
0.0659	0.0700	0.0742	0.0783	0.0824
0.0865	0.0906	0.0948	0.0989	0.1030
0.1641	0.2252	0.2864	0.3475	0.4086
0.4697	0.5056	0.5330	0.5605	0.5880
0.6155	0.6429	0.6704	0.6979	0.7253
0.7528	0.7803	0.8077	0.8352	0.8627
0.8901	0.9176	0.9451	0.9725	1.0000

Transect street-overflow

Area:

0.0010	0.0024	0.0042	0.0063	0.0088

0.0116	0.0148	0.0183	0.0222	0.0265
0.0311	0.0361	0.0414	0.0471	0.0531
0.0596	0.0663	0.0734	0.0809	0.0888
0.0970	0.1055	0.1145	0.1237	0.1334
0.1434	0.1537	0.1644	0.1759	0.1909
0.2100	0.2334	0.2609	0.2926	0.3277
0.3642	0.4018	0.4407	0.4807	0.5220
0.5644	0.6080	0.6528	0.6988	0.7460
0.7944	0.8440	0.8948	0.9468	1.0000

Hrad:

0.0198	0.0355	0.0496	0.0627	0.0753
0.0875	0.0995	0.1114	0.1231	0.1348
0.1464	0.1579	0.1694	0.1808	0.1922
0.2036	0.2150	0.2264	0.2377	0.2490
0.2603	0.2716	0.2829	0.2942	0.3055
0.3168	0.3280	0.3393	0.3400	0.3274
0.3191	0.3172	0.3219	0.3329	0.3581
0.3925	0.4311	0.4724	0.5156	0.5599
0.6049	0.6501	0.6953	0.7404	0.7851
0.8293	0.8729	0.9160	0.9583	1.0000

Width:

0.0225	0.0292	0.0359	0.0425	0.0492
0.0559	0.0625	0.0692	0.0759	0.0825
0.0892	0.0959	0.1025	0.1092	0.1159
0.1225	0.1292	0.1359	0.1425	0.1492
0.1559	0.1625	0.1692	0.1759	0.1825
0.1892	0.1959	0.2025	0.2397	0.3175
0.3952	0.4730	0.5508	0.6286	0.6667
0.6889	0.7111	0.7333	0.7556	0.7778
0.8000	0.8222	0.8444	0.8667	0.8889
0.9111	0.9333	0.9556	0.9778	1.0000

Transect largeriver

Area:

0.0049	0.0097	0.0146	0.0194	0.0243
0.0291	0.0340	0.0388	0.0437	0.0485
0.0535	0.0588	0.0644	0.0703	0.0765
0.0829	0.0897	0.0967	0.1040	0.1117
0.1204	0.1311	0.1437	0.1583	0.1748
0.1932	0.2136	0.2359	0.2602	0.2864
0.3146	0.3447	0.3767	0.4107	0.4466
0.4835	0.5204	0.5573	0.5942	0.6311
0.6680	0.7049	0.7417	0.7786	0.8155
0.8524	0.8893	0.9262	0.9631	1.0000

Hrad:

0.0621	0.1218	0.1792	0.2345	0.2878
0.3392	0.3888	0.4367	0.4829	0.5276
0.5782	0.6249	0.6681	0.7083	0.7458
0.7810	0.8140	0.8452	0.8747	0.9028
0.9102	0.9083	0.8978	0.8815	0.8620
0.8413	0.8209	0.8017	0.7841	0.7686
0.7551	0.7436	0.7341	0.7265	0.7205
0.7291	0.7407	0.7546	0.7704	0.7877
0.8061	0.8255	0.8457	0.8665	0.8879
0.9097	0.9318	0.9543	0.9771	1.0000

Width:

0.1316	0.1316	0.1316	0.1316	0.1316
0.1316	0.1316	0.1316	0.1316	0.1316
0.1395	0.1474	0.1553	0.1632	0.1711
0.1789	0.1868	0.1947	0.2026	0.2105
0.2632	0.3158	0.3684	0.4211	0.4737
0.5263	0.5789	0.6316	0.6842	0.7368
0.7895	0.8421	0.8947	0.9474	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000

Transect channel-main1a

Area:

0.0036	0.0072	0.0108	0.0144	0.0181
0.0225	0.0276	0.0336	0.0403	0.0479
0.0562	0.0653	0.0752	0.0860	0.0975
0.1098	0.1228	0.1367	0.1514	0.1669
0.1832	0.2002	0.2181	0.2367	0.2561
0.2764	0.2974	0.3192	0.3418	0.3652
0.3894	0.4144	0.4402	0.4668	0.4942
0.5223	0.5513	0.5811	0.6116	0.6430
0.6751	0.7080	0.7417	0.7762	0.8116
0.8477	0.8846	0.9222	0.9607	1.0000

Hrad:

0.0651	0.1237	0.1767	0.2250	0.2728
0.3142	0.3458	0.3710	0.3921	0.4107
0.4275	0.4433	0.4584	0.4731	0.4875
0.5018	0.5160	0.5302	0.5443	0.5585
0.5727	0.5869	0.6012	0.6156	0.6300
0.6444	0.6588	0.6734	0.6879	0.7025
0.7171	0.7318	0.7465	0.7612	0.7760
0.7908	0.8056	0.8204	0.8353	0.8502
0.8651	0.8800	0.8949	0.9099	0.9249
0.9399	0.9549	0.9699	0.9849	1.0000

Width:

0.0909	0.0909	0.0909	0.0909	0.1000
0.1200	0.1400	0.1600	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect channel-overflow1a

Area:

0.0018	0.0035	0.0053	0.0070	0.0088
0.0105	0.0123	0.0140	0.0160	0.0190
0.0230	0.0281	0.0342	0.0414	0.0496
0.0589	0.0693	0.0806	0.0931	0.1066
0.1211	0.1367	0.1533	0.1710	0.1898
0.2096	0.2304	0.2523	0.2753	0.2993
0.3243	0.3504	0.3776	0.4058	0.4350
0.4653	0.4967	0.5291	0.5626	0.5971
0.6326	0.6693	0.7069	0.7456	0.7854
0.8262	0.8681	0.9110	0.9550	1.0000

Hrad:

0.0830	0.1612	0.2352	0.3052	0.3715
0.4345	0.4943	0.5513	0.6028	0.6163
0.6051	0.5851	0.5650	0.5484	0.5363
0.5288	0.5253	0.5252	0.5278	0.5329
0.5398	0.5484	0.5583	0.5694	0.5814
0.5942	0.6077	0.6219	0.6365	0.6516
0.6671	0.6830	0.6991	0.7155	0.7322
0.7491	0.7662	0.7835	0.8009	0.8185
0.8362	0.8540	0.8720	0.8900	0.9082
0.9264	0.9447	0.9631	0.9815	1.0000

Width:

```
            0.0385     0.0385     0.0385     0.0385     0.0385
            0.0385     0.0385     0.0385     0.0538     0.0769
            0.1000     0.1231     0.1462     0.1692     0.1923
            0.2154     0.2385     0.2615     0.2846     0.3077
            0.3308     0.3538     0.3769     0.4000     0.4231
            0.4462     0.4692     0.4923     0.5154     0.5385
            0.5615     0.5846     0.6077     0.6308     0.6538
            0.6769     0.7000     0.7231     0.7462     0.7692
            0.7923     0.8154     0.8385     0.8615     0.8846
            0.9077     0.9308     0.9538     0.9769     1.0000

Transect Channel-overflow2a
Area:
            0.0031     0.0061     0.0092     0.0122     0.0153
            0.0183     0.0214     0.0244     0.0277     0.0319
            0.0370     0.0432     0.0503     0.0584     0.0675
            0.0775     0.0885     0.1005     0.1135     0.1275
            0.1424     0.1583     0.1752     0.1930     0.2119
            0.2317     0.2525     0.2742     0.2970     0.3207
            0.3454     0.3710     0.3977     0.4253     0.4539
            0.4835     0.5140     0.5455     0.5780     0.6115
            0.6460     0.6814     0.7178     0.7552     0.7936
            0.8329     0.8732     0.9145     0.9568     1.0000
Hrad:
            0.0716     0.1409     0.2081     0.2733     0.3366
            0.3980     0.4577     0.5156     0.5711     0.6060
            0.6239     0.6314     0.6333     0.6326     0.6314
            0.6305     0.6306     0.6318     0.6343     0.6381
            0.6429     0.6489     0.6558     0.6635     0.6720
            0.6812     0.6910     0.7014     0.7122     0.7235
            0.7352     0.7473     0.7597     0.7724     0.7853
            0.7985     0.8119     0.8256     0.8394     0.8533
            0.8675     0.8817     0.8961     0.9107     0.9253
            0.9401     0.9549     0.9699     0.9849     1.0000
Width:
            0.0698     0.0698     0.0698     0.0698     0.0698
            0.0698     0.0698     0.0698     0.0847     0.1070
            0.1293     0.1516     0.1740     0.1963     0.2186
            0.2409     0.2633     0.2856     0.3079     0.3302
            0.3526     0.3749     0.3972     0.4195     0.4419
            0.4642     0.4865     0.5088     0.5312     0.5535
            0.5758     0.5981     0.6205     0.6428     0.6651
            0.6874     0.7098     0.7321     0.7544     0.7767
            0.7991     0.8214     0.8437     0.8660     0.8884
            0.9107     0.9330     0.9553     0.9777     1.0000


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......        88.176         1.688
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........        27.112         0.519
Surface Runoff ...........        58.596         1.122
Final Surface Storage ....         3.032         0.058
Continuity Error (%) .....        -0.640


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      10^6 gal
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......        58.596        19.094
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........        60.032        19.562
Internal Outflow .........         0.000         0.000
Storage Losses ...........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         0.026         0.008
Continuity Error (%) .....        -2.495


*********************************
Highest Flow Instability Indexes
*********************************
Link C14 (4)
Link C5 (3)
Link C28 (3)
Link C36 (3)
Link C4 (2)


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :   300.00 sec
Average Time Step           :   300.00 sec
Maximum Time Step           :   300.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.06


***************************
  Subcatchment Runoff Summary
  ***************************

  ---------------------------------------------------------------------------------------------
----------
                              Total      Total      Total      Total      Total       Total
Peak  Runoff
                             Precip      Runon       Evap      Infil     Runoff      Runoff
Runoff   Coeff
  Subcatchment                  in         in         in         in         in    10^6 gal
CFS
  ---------------------------------------------------------------------------------------------
----------
  MI15                         1.69       0.00       0.00       0.25       1.38        0.85
76.21   0.816
  MI08                         1.69       0.00       0.00       0.16       1.46        1.66
136.65   0.867
  MI01                         1.69       0.00       0.00       0.72       0.93        0.64
53.65   0.552
  MI33                         1.69       0.00       0.00       0.83       0.83        0.52
43.61   0.491
  MI32                         1.69       0.00       0.00       1.05       0.62        0.29
21.53   0.366
  MI31                         1.69       0.00       0.00       0.84       0.82        0.20
16.90   0.486
  MI28                         1.69       0.00       0.00       0.93       0.74        0.46
37.86   0.436
  MI27                         1.69       0.00       0.00       0.60       1.05        0.30
27.24   0.622
  MI26                         1.69       0.00       0.00       0.36       1.27        0.52
46.12   0.754
```

```
  MI12                      1.69       0.00       0.00       0.42       1.22       0.67
59.80   0.723
  MI25                      1.69       0.00       0.00       0.45       1.19       0.46
42.15   0.704
  MI14                      1.69       0.00       0.00       0.63       1.02       1.15
91.64   0.602
  MI05                      1.69       0.00       0.00       0.43       1.20       0.27
24.03   0.713
  MI19                      1.69       0.00       0.00       0.40       1.23       0.39
36.39   0.730
  MI17                      1.69       0.00       0.00       0.83       0.83       0.49
41.73   0.490
  MI03                      1.69       0.00       0.00       0.65       0.99       0.42
36.92   0.589
  MI16                      1.69       0.00       0.00       0.60       1.05       0.66
55.94   0.621
  MI21                      1.69       0.00       0.00       0.37       1.27       0.30
27.96   0.750
  MI29                      1.69       0.00       0.00       0.72       0.93       0.20
17.36   0.552
  MI30                      1.69       0.00       0.00       0.70       0.95       1.26
110.50   0.560
  MI24                      1.69       0.00       0.00       0.54       1.11       0.24
21.77   0.656
  MI23                      1.69       0.00       0.00       0.51       1.13       0.83
75.73   0.669
  MI06                      1.69       0.00       0.00       0.30       1.33       0.42
38.60   0.786
  MI13                      1.69       0.00       0.00       0.06       1.55       0.13
12.32   0.921
  MI20                      1.69       0.00       0.00       0.35       1.28       0.57
52.92   0.759
  MI18                      1.69       0.00       0.00       0.40       1.23       0.26
23.15   0.730
  MI22                      1.69       0.00       0.00       0.30       1.33       0.37
35.50   0.786
  MI11                      1.69       0.00       0.00       0.43       1.21       0.23
21.55   0.718
  MI10                      1.69       0.00       0.00       0.60       1.04       0.38
33.56   0.618
  MI09                      1.69       0.00       0.00       0.12       1.49       1.01
84.36   0.886
  MI07                      1.69       0.00       0.00       0.24       1.39       1.38
125.33   0.822
  MI02                      1.69       0.00       0.00       0.76       0.89       0.77
64.85   0.526
  MI04                      1.69       0.00       0.00       0.03       1.59       0.38
37.48   0.939
  MI35                      1.69       0.00       0.00       0.07       1.56       0.30
28.75   0.927
  MI34                      1.69       0.00       0.00       0.06       1.57       0.11
10.79   0.930


  ******************
  Node Depth Summary
  ******************

  -----------------------------------------------------------------------
                                  Average  Maximum  Maximum  Time of Max
                                    Depth    Depth      HGL   Occurrence
  Node                 Type          Feet     Feet     Feet  days hr:min
  -----------------------------------------------------------------------
```

```
J4                   JUNCTION     0.04     1.22  6879.22     0  00:35
J1                   JUNCTION     0.43     7.04  6759.04     0  00:50
J-MI09               JUNCTION     0.09     2.18  6804.18     0  00:35
J-MI11               JUNCTION     0.03     0.93  6864.93     0  00:35
J-MI03               JUNCTION     0.02     0.54  6762.54     0  00:40
J-MI04               JUNCTION     0.17     3.23  6781.23     0  00:50
J-MI21               JUNCTION     0.03     0.70  7000.70     0  00:35
J-MI31               JUNCTION     0.02     0.52  7016.52     0  00:35
J-MI22               JUNCTION     0.03     0.75  7000.75     0  00:35
J-MI19               JUNCTION     0.05     1.45  6911.45     0  00:35
J-MI33               JUNCTION     0.04     1.05  7101.05     0  00:35
J-MI32               JUNCTION     0.05     1.22  6979.22     0  00:40
J-MI28               JUNCTION     0.05     1.19  6883.19     0  00:40
J-MI30               JUNCTION     0.04     1.28  6907.28     0  00:35
J-MI29               JUNCTION     0.02     0.46  7064.46     0  00:35
J-MI24               JUNCTION     0.07     1.71  6845.71     0  00:40
J-MI25               JUNCTION     0.03     0.88  6850.88     0  00:35
J-MI23               JUNCTION     0.03     0.74  7014.74     0  00:35
J-MI18               JUNCTION     0.16     3.18  6789.18     0  00:45
J-MI15               JUNCTION     0.13     2.75  6796.75     0  00:40
J-MI20               JUNCTION     0.02     0.50  6798.50     0  00:35
J-MI17               JUNCTION     0.06     1.57  6873.57     0  00:35
J-MI16               JUNCTION     0.17     3.24  6783.24     0  00:45
J-MI05               JUNCTION     0.05     1.36  6821.36     0  00:35
J-MI06               JUNCTION     0.05     1.27  6813.27     0  00:40
J-MI07               JUNCTION     0.07     1.88  6765.88     0  00:35
J-MI08               JUNCTION     0.10     2.31  6765.31     0  00:35
J-MI27               JUNCTION     0.04     1.29  6961.29     0  00:35
J-MI26               JUNCTION     0.04     1.20  6909.20     0  00:40
J-MI12               JUNCTION     0.09     2.14  6862.14     0  00:35
J-MI10               JUNCTION     0.09     2.13  6792.13     0  00:40
J-MI02               JUNCTION     0.02     0.51  6760.51     0  00:35
J-MI35               JUNCTION     0.10     1.32  6839.32     0  00:35
J-MI14               JUNCTION     0.10     2.36  6816.36     0  00:40
J-MI34               JUNCTION     0.06     0.85  6838.85     0  00:35
J-MI13               JUNCTION     0.08     1.29  6837.29     0  00:40
J2                   JUNCTION     0.02     0.48  6933.48     0  00:40
J3                   JUNCTION     0.18     3.97  6781.97     0  00:50
J5                   JUNCTION     0.20     3.89  6765.89     0  00:55
J-MI01               JUNCTION     0.09     2.09  6752.09     0  00:40
OF1                  OUTFALL      0.48     6.63  6756.63     0  01:10


******************
Node Inflow Summary
******************

-----------------------------------------------------------------------------------------
                                Maximum  Maximum                   Lateral       Total
                                Lateral    Total  Time of Max      Inflow      Inflow
                                 Inflow   Inflow   Occurrence      Volume      Volume
Node                 Type           CFS      CFS  days hr:min    10^6 gal    10^6 gal
-----------------------------------------------------------------------------------------
J4                   JUNCTION      0.00   169.20     0  00:35       0.000       2.547
J1                   JUNCTION      0.00   756.40     0  00:50       0.000      16.779
J-MI09               JUNCTION     84.36    84.36     0  00:35       1.005       1.005
J-MI11               JUNCTION     21.55    21.55     0  00:35       0.231       0.231
J-MI03               JUNCTION     36.92    80.37     0  00:35       0.417       1.109
J-MI04               JUNCTION     37.48   527.74     0  00:50       0.384       9.461
J-MI21               JUNCTION     27.96    27.96     0  00:35       0.297       0.297
J-MI31               JUNCTION     16.90    16.90     0  00:35       0.201       0.201
J-MI22               JUNCTION     35.50    35.50     0  00:35       0.373       0.373
J-MI19               JUNCTION     36.39    36.39     0  00:35       0.394       0.394
```

J-MI33	JUNCTION	43.61	43.61	0	00:35	0.524	0.524
J-MI32	JUNCTION	21.53	55.40	0	00:40	0.294	0.820
J-MI28	JUNCTION	37.86	78.21	0	00:40	0.463	1.284
J-MI30	JUNCTION	110.50	110.50	0	00:35	1.262	1.262
J-MI29	JUNCTION	17.36	17.36	0	00:35	0.201	0.201
J-MI24	JUNCTION	21.77	231.72	0	00:40	0.239	3.445
J-MI25	JUNCTION	42.15	50.44	0	00:35	0.455	0.658
J-MI23	JUNCTION	75.73	88.49	0	00:35	0.834	1.036
J-MI18	JUNCTION	23.15	508.01	0	00:45	0.259	8.419
J-MI15	JUNCTION	76.21	495.60	0	00:40	0.847	7.860
J-MI20	JUNCTION	52.92	52.92	0	00:35	0.573	0.573
J-MI17	JUNCTION	41.73	68.57	0	00:35	0.489	0.884
J-MI16	JUNCTION	55.94	522.77	0	00:45	0.656	9.077
J-MI05	JUNCTION	24.03	24.03	0	00:35	0.268	0.268
J-MI06	JUNCTION	38.60	51.48	0	00:35	0.422	0.691
J-MI07	JUNCTION	125.33	125.33	0	00:35	1.379	1.379
J-MI08	JUNCTION	136.65	354.27	0	00:35	1.662	5.255
J-MI27	JUNCTION	27.24	27.24	0	00:35	0.303	0.303
J-MI26	JUNCTION	46.12	63.29	0	00:35	0.515	0.819
J-MI12	JUNCTION	59.80	113.73	0	00:35	0.671	1.490
J-MI10	JUNCTION	33.56	161.59	0	00:40	0.378	2.212
J-MI02	JUNCTION	64.85	64.85	0	00:35	0.769	0.769
J-MI35	JUNCTION	28.75	28.75	0	00:35	0.301	0.301
J-MI14	JUNCTION	91.64	409.11	0	00:40	1.150	6.062
J-MI34	JUNCTION	10.79	10.79	0	00:35	0.112	0.112
J-MI13	JUNCTION	12.32	36.05	0	00:35	0.127	0.428
J2	JUNCTION	0.00	14.70	0	00:40	0.000	0.201
J3	JUNCTION	0.00	558.94	0	00:50	0.000	10.345
J5	JUNCTION	0.00	568.72	0	00:55	0.000	11.523
J-MI01	JUNCTION	53.65	115.08	0	00:40	0.637	1.643
OF1	OUTFALL	0.00	689.05	0	01:10	0.000	19.561

****
Node Surcharge Summary
****

No nodes were surcharged.

****
Node Flooding Summary
****

No nodes were flooded.

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume 10^6 gal
OF1	99.65	30.27	689.05	19.561
System	99.65	30.27	689.05	19.561

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days	hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
C27	CHANNEL	78.20	0	00:35	7.90	0.01	0.12
C25	CHANNEL	48.61	0	00:35	6.44	0.03	0.16
C2	CHANNEL	77.15	0	00:40	4.56	0.10	0.37
C22	CHANNEL	61.34	0	00:40	7.88	0.03	0.16
C1	CHANNEL	62.57	0	00:35	6.22	0.00	0.05
C21	CHANNEL	112.56	0	00:40	6.09	0.11	0.38
C20	CHANNEL	18.34	0	00:40	5.27	0.02	0.16
C23	CHANNEL	24.02	0	00:40	4.00	0.03	0.21
C18	CHANNEL	24.34	0	00:40	5.22	0.01	0.10
C17	CHANNEL	30.86	0	00:40	6.15	0.01	0.11
C19	CHANNEL	154.58	0	00:40	6.78	0.12	0.36
C13	CHANNEL	20.77	0	00:40	3.22	0.03	0.22
C15	CHANNEL	480.63	0	00:45	5.04	0.13	0.45
C29	CHANNEL	15.55	0	00:40	4.82	0.01	0.08
C11	CHANNEL	496.54	0	00:45	3.85	0.18	0.53
C10	CHANNEL	31.91	0	00:40	4.28	0.04	0.25
C12	CHANNEL	50.97	0	00:40	6.49	0.01	0.09
C7	CHANNEL	537.83	0	00:55	6.55	0.10	0.39
C9	CHANNEL	517.47	0	00:50	3.55	0.20	0.54
C14	CHANNEL	52.45	0	00:35	7.06	0.01	0.08
C26	CHANNEL	380.74	0	00:45	6.20	0.08	0.39
C8	CHANNEL	65.98	0	00:40	6.60	0.05	0.27
C4	CHANNEL	367.78	0	00:40	5.47	0.09	0.39
C3	CHANNEL	121.15	0	00:35	4.57	0.04	0.31
C6	CHANNEL	569.19	0	00:55	10.09	0.05	0.27
C5	CHANNEL	643.53	0	01:10	3.44	0.31	0.65
C30	CHANNEL	79.12	0	00:40	6.31	0.01	0.14
C31	CHANNEL	98.62	0	00:35	5.49	0.02	0.21
C32	CHANNEL	174.36	0	00:40	8.91	0.02	0.21
C33	CHANNEL	52.78	0	00:40	5.69	0.01	0.20
C34	CHANNEL	39.18	0	00:40	5.43	0.01	0.16
C35	CHANNEL	23.76	0	00:40	1.54	0.10	0.65
C16	CHANNEL	34.68	0	00:40	4.69	0.03	0.16
C37	CHANNEL	8.42	0	00:40	2.79	0.02	0.37
C28	CHANNEL	228.13	0	00:40	7.23	0.04	0.28
C36	CHANNEL	14.13	0	00:40	5.09	0.01	0.07
C38	CHANNEL	14.70	0	00:40	4.15	0.00	0.08
C24	DUMMY	527.74	0	00:50			
C39	DUMMY	80.37	0	00:35			
C40	DUMMY	115.08	0	00:40			

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C24	0.01	0.01	0.01	24.08	0.01
C39	0.01	0.01	0.01	24.08	0.01
C40	0.01	0.01	0.01	24.08	0.01

```
Analysis begun on:  Wed Dec 26 15:54:02 2012
Analysis ended on:  Wed Dec 26 15:54:02 2012
Total elapsed time: < 1 sec
```

```
EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.022)
--------------------------------------------------------------

Soda Creek Basin - Future Conditions
UDFCD gauge 100 year 2 hr
Link C53 was rerouted from J6 to J-SO16,

*********************************************************
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
*********************************************************

****************
Analysis Options
****************
Flow Units ............... CFS
Process Models:
  Rainfall/Runoff ........ YES
  Snowmelt ............... NO
  Groundwater ............ NO
  Flow Routing ........... YES
  Ponding Allowed ........ NO
  Water Quality .......... NO
Infiltration Method ...... HORTON
Flow Routing Method ...... KINWAVE
Starting Date ............ AUG-06-2012 00:00:00
Ending Date .............. AUG-08-2012 00:00:00
Antecedent Dry Days ...... 0.0
Report Time Step ......... 00:05:00
Wet Time Step ............ 00:05:00
Dry Time Step ............ 00:05:00
Routing Time Step ........ 300.00 sec


WARNING 04: minimum elevation drop used for Conduit C8

WARNING 04: minimum elevation drop used for Conduit C22

WARNING 04: minimum elevation drop used for Conduit C24

WARNING 04: minimum elevation drop used for Conduit C26

WARNING 04: minimum elevation drop used for Conduit C28

WARNING 04: minimum elevation drop used for Conduit C38

WARNING 04: minimum elevation drop used for Conduit C40

WARNING 04: minimum elevation drop used for Conduit C42

WARNING 04: minimum elevation drop used for Conduit C18

WARNING 04: minimum elevation drop used for Conduit C56

WARNING 04: minimum elevation drop used for Conduit C57

*************
Element Count
*************
Number of rain gages ...... 3
Number of subcatchments ... 51
Number of nodes ........... 58
Number of links ........... 57
Number of pollutants ...... 0
Number of land uses ....... 0


****************
Raingage Summary
****************
                                          Data        Recording
Name                Data Source           Type        Interval
-----------------------------------------------------------------
rg100               SCS_24h_Type_II_2.8inINTENSITY    15 min.
UDFCD100            UDFCD100              VOLUME      5 min.
UDFCD5              Timeseries1           VOLUME      5 min.


********************
Subcatchment Summary
********************
Name                        Area     Width   %Imperv    %Slope    Rain Gage            Outlet
-------------------------------------------------------------------------------------------------
---------
SO23                        6.63   1735.88     74.50    1.1406    UDFCD100             J-SO23
SO22                        5.01    918.08     81.50    2.0390    UDFCD100             J-SO22
SO31                        7.48   1856.75     42.90    3.4307    UDFCD100             J-SO31
SO13                        1.65    647.76     97.10    1.2042    UDFCD100             J-SO13
SO47                    16574.90 105143.00      2.00    7.1286    UDFCD100             J-SO47
SO19                        7.35   2420.90     31.00    9.5502    UDFCD100             J-SO19
SO17                        2.07    628.57     96.20    1.6546    UDFCD100             J-SO17
SO20                        5.16    886.29     69.50    6.6344    UDFCD100             J-SO20
SO01                        2.03   1286.84     38.20    2.6110    UDFCD100             J-SO01
SO07                        2.06   1020.59     97.30    2.5084    UDFCD100             J-SO07
SO16                        2.79    910.91     94.10    1.3832    UDFCD100             J-SO16
SO11                        2.72    684.80     93.80    0.9492    UDFCD100             J-SO11
SO03                        0.36    537.51    100.00    0.9488    UDFCD100             J-SO03
SO02                        2.49    456.21     96.50    2.1043    UDFCD100             J-SO02
SO18                        2.80   1031.92     79.70    2.4808    UDFCD100             J-SO18
SO26                        5.98   1285.14     49.40    5.1356    UDFCD100             J-SO26
SO27                        3.12   1473.33     60.90    7.3846    UDFCD100             J-SO27
SO29                        4.83   1250.86     48.20    3.4776    UDFCD100             J-SO29
SO21                        3.76   1128.63     71.80    6.4503    UDFCD100             J-SO21
SO24                        6.75   1331.22     67.50    2.1484    UDFCD100             J-SO24
SO04                        0.27    668.11    100.00    1.7063    UDFCD100             J-SO04
SO25                        6.20   1176.94     46.60    4.2993    UDFCD100             J-SO25
SO05                        3.49    853.84     97.20    1.9676    UDFCD100             J-SO05
SO06                        3.41    703.19     97.10    2.7304    UDFCD100             J-SO06
SO08                        1.34    573.09     96.80    3.6294    UDFCD100             J-SO08
SO09                        1.44    382.96     96.70    4.7525    UDFCD100             J-SO09
SO10                        0.38    468.06     99.70    0.6837    UDFCD100             J-SO10
SO14                        0.24    467.89    100.00    2.1800    UDFCD100             J-SO14
SO12                        1.76    441.40     97.30    0.8835    UDFCD100             J-SO12
SO15                        2.78    945.18     94.30    1.2696    UDFCD100             J-SO15
SO30                        2.29    992.21     42.30    3.2654    UDFCD100             J-SO30
SO32                       13.84   1930.88     60.80    2.1027    UDFCD100             J-SO32
SO35                        6.57   2536.49     66.20    4.3525    UDFCD100             J-SO35
SO33                        2.52    924.77     65.80    2.7683    UDFCD100             J-SO33
SO34                        6.03   1005.69     25.60    3.9376    UDFCD100             J-SO34
SO36                       12.23   3618.21     56.00    6.0140    UDFCD100             J-SO36
SO39                        3.04    419.87     73.70    8.3836    UDFCD100             J-SO39
SO38                        2.27    716.20     60.20    5.0265    UDFCD100             J-SO38
SO41                        2.97   1117.68     37.70    7.9897    UDFCD100             J-SO41
SO42                       10.12   2450.49     40.70   12.6383    UDFCD100             J-SO42
```

SO43	8.28	1867.29	35.00	9.6075	UDFCD100	J-SO43
SO40	4.99	1510.53	41.00	4.0516	UDFCD100	J-SO40
SO44	2.12	470.40	51.50	13.9455	UDFCD100	J-SO44
SO50	7.52	2381.98	42.50	13.9380	UDFCD100	J-SO50
SO37	28.95	3571.26	20.30	11.8110	UDFCD100	J-SO37
SO45	4.96	1763.37	47.10	14.5176	UDFCD100	J-SO45
SO28	8.87	1105.08	45.50	5.4747	UDFCD100	J-SO28
SO48	118.07	9516.30	15.90	11.8954	UDFCD100	J-SO48
SO49	69.89	7041.46	10.90	16.1898	UDFCD100	J-SO49
SO46	6.32	1898.88	60.50	11.4594	UDFCD100	J-SO46
SO51	1.32	500.00	25.00	0.5000	UDFCD100	J-SO01

****
Node Summary
****

Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
J-SO19	JUNCTION	6706.00	3.00	0.0	
J5	JUNCTION	6703.00	3.00	0.0	
J-SO03	JUNCTION	6701.00	3.00	0.0	
J-SO02	JUNCTION	6694.00	10.00	0.0	
J-SO17	JUNCTION	6701.00	3.00	0.0	
J-SO20	JUNCTION	6714.00	3.00	0.0	
J-SO49	JUNCTION	6750.00	3.00	0.0	
J-SO27	JUNCTION	6750.00	3.00	0.0	
J-SO28	JUNCTION	6763.00	3.00	0.0	
J-SO29	JUNCTION	6752.00	10.00	0.0	
J-SO31	JUNCTION	6723.00	3.00	0.0	
J-SO24	JUNCTION	6714.00	10.00	0.0	
J-SO23	JUNCTION	6722.00	7.00	0.0	
J-SO18	JUNCTION	6696.00	6.00	0.0	
J-SO22	JUNCTION	6704.00	10.00	0.0	
J-SO05	JUNCTION	6698.00	10.00	0.0	
J-SO13	JUNCTION	6719.00	7.00	0.0	
J-SO12	JUNCTION	6717.00	7.00	0.0	
J-SO26	JUNCTION	6750.00	3.00	0.0	
J-SO16	JUNCTION	6705.00	3.00	0.0	
J-SO21	JUNCTION	6704.00	10.00	0.0	
J-SO04	JUNCTION	6698.00	10.00	0.0	
J-SO25	JUNCTION	6714.00	10.00	0.0	
J-SO06	JUNCTION	6700.00	3.00	0.0	
J-SO08	JUNCTION	6704.50	3.00	0.0	
J-SO07	JUNCTION	6704.00	3.00	0.0	
J-SO09	JUNCTION	6706.00	3.00	0.0	
J-SO11	JUNCTION	6721.00	7.00	0.0	
J-SO14	JUNCTION	6717.00	3.00	0.0	
J-SO15	JUNCTION	6712.00	3.00	0.0	
J-SO30	JUNCTION	6752.00	10.00	0.0	
J-SO32	JUNCTION	6723.00	5.50	0.0	
J-SO35	JUNCTION	6752.00	7.00	0.0	
J-SO33	JUNCTION	6732.00	6.00	0.0	
J-SO34	JUNCTION	6740.00	6.00	0.0	
J-SO40	JUNCTION	6742.00	5.50	0.0	
J-SO44	JUNCTION	6752.00	6.00	0.0	
J-SO36	JUNCTION	6754.00	7.00	0.0	
J-SO39	JUNCTION	6770.00	7.00	0.0	
J-SO38	JUNCTION	6778.00	6.00	0.0	
J-SO47	JUNCTION	6756.00	5.50	0.0	
J-SO41	JUNCTION	6738.00	5.50	0.0	
J-SO42	JUNCTION	6777.00	3.00	0.0	
J-SO43	JUNCTION	6742.00	3.00	0.0	
J-SO46	JUNCTION	6790.00	6.00	0.0	
J-SO37	JUNCTION	6778.00	3.00	0.0	
J-SO45	JUNCTION	6750.00	5.50	0.0	
J-SO48	JUNCTION	6774.00	3.00	0.0	
J-SO10	JUNCTION	6720.00	7.00	0.0	
J-SO50	JUNCTION	6804.00	6.00	0.0	
J1	JUNCTION	6768.00	7.00	0.0	
J2	JUNCTION	6748.00	5.50	0.0	
J4	JUNCTION	6703.00	5.50	0.0	
J6	JUNCTION	6700.00	10.00	0.0	
J-SO01	JUNCTION	6688.00	6.00	0.0	
J3	JUNCTION	6698.00	10.00	0.0	
J7	JUNCTION	6704.00	10.00	0.0	
OF1	OUTFALL	6688.00	10.00	0.0	

****
Link Summary
****

Name	From Node	To Node	Type	Length	%Slope	Roughness
C1	J-SO38	J-SO39	CONDUIT	172.5	4.6424	0.0187
C2	J-SO37	J1	CONDUIT	759.5	1.3168	0.0187
C3	J-SO39	J1	CONDUIT	318.2	0.6286	0.0187
C4	J1	J-SO36	CONDUIT	747.9	1.8723	0.0187
C5	J-SO36	J-SO35	CONDUIT	115.4	1.7331	0.0187
C6	J-SO47	J-SO45	CONDUIT	400.1	1.4996	0.0375
C7	J-SO45	J2	CONDUIT	151.5	1.3204	0.0375
C8	J-SO43	J-SO40	CONDUIT	25.6	0.0039	0.0100
C9	J-SO42	J-SO43	CONDUIT	195.8	18.1651	0.0187
C10	J2	J-SO40	CONDUIT	625.5	0.9593	0.0375
C11	J-SO44	J2	CONDUIT	161.2	2.4818	0.0375
C12	J-SO46	J-SO44	CONDUIT	437.0	8.7281	0.0730
C13	J-SO50	J-SO38	CONDUIT	380.1	6.8571	0.0375
C14	J-SO40	J-SO41	CONDUIT	184.4	2.1694	0.0375
C15	J-SO41	J-SO33	CONDUIT	467.4	1.2838	0.0375
C16	J-SO34	J-SO33	CONDUIT	351.3	2.2780	0.0375
C17	J-SO35	J-SO34	CONDUIT	349.9	3.4311	0.0187
C19	J-SO48	J-SO28	CONDUIT	330.4	3.3314	0.0187
C20	J-SO28	J-SO30	CONDUIT	408.1	2.6963	0.0187
C21	J-SO30	J-SO31	CONDUIT	378.2	7.6912	0.0187
C22	J-SO29	J-SO30	CONDUIT	36.1	0.0028	0.0350
C23	J-SO33	J-SO32	CONDUIT	822.2	1.0946	0.0375
C24	J-SO31	J-SO32	CONDUIT	15.9	0.0063	0.0100
C25	J-SO32	J-SO24	CONDUIT	490.4	1.8354	0.0375
C26	J-SO25	J-SO24	CONDUIT	19.8	0.0051	0.0350
C27	J-SO24	J-SO22	CONDUIT	677.3	1.4766	0.0375
C28	J-SO21	J-SO22	CONDUIT	12.1	0.0083	0.0350
C29	J-SO20	J4	CONDUIT	116.7	9.4713	0.0187
C30	J-SO22	J4	CONDUIT	91.1	1.0978	0.0375
C31	J-SO26	J-SO20	CONDUIT	436.6	8.2747	0.0187
C32	J-SO49	J-SO19	CONDUIT	641.3	6.8774	0.0187
C33	J-SO27	J-SO18	CONDUIT	601.2	9.0188	0.0187
C34	J-SO19	J-SO18	CONDUIT	60.6	16.7367	0.0100
C35	J-SO18	J-SO01	CONDUIT	498.5	1.6051	0.0375
C36	J4	J-SO18	CONDUIT	535.1	1.3083	0.0375
C37	J-SO17	J-SO18	CONDUIT	221.7	2.2564	0.0187
C38	J-SO03	J-SO17	CONDUIT	67.4	0.0015	0.0187
C39	J-SO02	OF1	CONDUIT	402.1	1.4922	0.0350
C40	J-SO04	J-SO05	CONDUIT	34.2	0.0029	0.0350
C41	J3	J-SO02	CONDUIT	334.9	1.1945	0.0350
C42	J-SO06	J6	CONDUIT	27.6	0.0036	0.0100
C43	J-SO14	J5	CONDUIT	423.5	3.3077	0.0187

C44	J-SO08	J7	CONDUIT	206.5	0.2421	0.0187
C45	J-SO09	J-SO08	CONDUIT	166.5	0.9010	0.0187
C46	J-SO10	J-SO09	CONDUIT	327.4	4.2798	0.0187
C47	J-SO11	J-SO10	CONDUIT	76.3	1.3104	0.0187
C48	J-SO12	J-SO07	CONDUIT	400.1	3.2510	0.0187
C49	J-SO23	J-SO13	CONDUIT	204.2	1.4694	0.0187
C50	J-SO13	J-SO12	CONDUIT	176.3	1.1346	0.0187
C51	J7	J6	CONDUIT	329.3	1.2148	0.0350
C52	J5	J-SO06	CONDUIT	274.3	1.0937	0.0187
C53	J-SO15	J-SO16	CONDUIT	373.6	1.8739	0.0187
C54	J6	J3	CONDUIT	452.1	0.4424	0.0350
C55	J-SO16	J-SO17	CONDUIT	317.5	1.2600	0.0187
C18	J-SO01	OF1	CONDUIT	12.3	0.0082	0.0100
C56	J-SO05	J3	CONDUIT	18.7	0.0053	0.0100
C57	J-SO07	J7	CONDUIT	17.7	0.0057	0.0100

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Cross Section Summary
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Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
C1	street-overflow	3.00	106.00	0.33	106.00	1	872.15
C2	street-overflow	3.00	106.00	0.33	106.00	1	464.50
C3	street-main	7.00	329.94	2.45	72.50	1	3769.45
C4	street-overflow	3.00	106.00	0.33	106.00	1	553.88
C5	street-main	7.00	329.94	2.45	72.50	1	6258.76
C6	channel-main3rd	5.50	166.00	2.46	52.00	1	1467.72
C7	channel-main3rd	5.50	166.00	2.46	52.00	1	1377.23
C8	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C9	street-overflow	3.00	106.00	0.33	106.00	1	1725.20
C10	channel-main3rd	5.50	166.00	2.46	52.00	1	1173.90
C11	channel-main1st	5.50	122.00	1.60	44.00	1	1042.12
C12	channel-overflow1a	6.00	548.00	1.40	208.00	1	4121.78
C13	channel-overflow1s	6.00	548.00	1.40	208.00	1	7127.53
C14	channel-main3rd	5.50	166.00	2.46	52.00	1	1765.28
C15	channel-main3rd	5.50	166.00	2.46	52.00	1	1357.98
C16	channel-overflow1s	6.00	548.00	1.40	208.00	1	4108.18
C17	street-overflow	3.00	106.00	0.33	106.00	1	749.78
C19	street-overflow	3.00	106.00	0.33	106.00	1	738.82
C20	street-overflow	3.00	106.00	0.33	106.00	1	664.67
C21	street-overflow	3.00	106.00	0.33	106.00	1	1122.58
C22	largeriver	10.00	824.00	3.15	152.00	1	395.06
C23	channel-main3rd	5.50	166.00	2.46	52.00	1	1253.97
C24	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C25	channel-main3rd	5.50	166.00	2.46	52.00	1	1623.71
C26	largeriver	10.00	824.00	3.15	152.00	1	534.08
C27	channel-main3rd	5.50	166.00	2.46	52.00	1	1456.38
C28	largeriver	10.00	824.00	3.15	152.00	1	683.13
C29	street-overflow	3.00	106.00	0.33	106.00	1	1245.73
C30	channel-main3rd	5.50	166.00	2.46	52.00	1	1255.75
C31	street-overflow	3.00	106.00	0.33	106.00	1	1164.38
C32	street-overflow	3.00	106.00	0.33	106.00	1	1061.53
C33	street-overflow	3.00	106.00	0.33	106.00	1	1215.61
C34	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C35	channel-overflow3r	6.00	740.00	1.44	240.00	1	4741.80
C36	channel-main3rd	5.50	166.00	2.46	52.00	1	1370.90
C37	street-overflow	3.00	106.00	0.33	106.00	1	608.03
C38	street-overflow	3.00	106.00	0.33	106.00	1	15.59
C39	largeriver	10.00	824.00	3.15	152.00	1	9175.62
C40	largeriver	10.00	824.00	3.15	152.00	1	406.05
C41	largeriver	10.00	824.00	3.15	152.00	1	8209.56
C42	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C43	street-overflow	3.00	106.00	0.33	106.00	1	736.18
C44	street-overflow	3.00	106.00	0.33	106.00	1	199.18
C45	street-overflow	3.00	106.00	0.33	106.00	1	384.23
C46	street-overflow	3.00	106.00	0.33	106.00	1	837.39
C47	street-main	7.00	329.94	2.45	72.50	1	5442.28
C48	street-overflow	3.00	106.00	0.33	106.00	1	729.84
C49	street-main	7.00	329.94	2.45	72.50	1	5762.99
C50	street-main	7.00	329.94	2.45	72.50	1	5064.17
C51	largeriver	10.00	824.00	3.15	152.00	1	8278.83
C52	street-overflow	3.00	106.00	0.33	106.00	1	423.32
C53	street-overflow	3.00	106.00	0.33	106.00	1	554.10
C54	largeriver	10.00	824.00	3.15	152.00	1	4995.90
C55	street-overflow	3.00	106.00	0.33	106.00	1	454.36
C18	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C56	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C57	DUMMY	0.00	0.00	0.00	0.00	1	0.00

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Transect Summary
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Transect channel-main1st
Area:

0.0036	0.0072	0.0108	0.0144	0.0181
0.0225	0.0276	0.0336	0.0403	0.0479
0.0562	0.0653	0.0752	0.0860	0.0975
0.1098	0.1228	0.1367	0.1514	0.1669
0.1832	0.2002	0.2181	0.2367	0.2561
0.2764	0.2974	0.3192	0.3418	0.3652
0.3894	0.4144	0.4402	0.4668	0.4942
0.5223	0.5513	0.5811	0.6116	0.6430
0.6751	0.7080	0.7417	0.7762	0.8116
0.8477	0.8846	0.9222	0.9607	1.0000

Hrad:

0.0649	0.1233	0.1763	0.2244	0.2721
0.3133	0.3449	0.3701	0.3912	0.4097
0.4266	0.4424	0.4575	0.4722	0.4866
0.5009	0.5152	0.5294	0.5435	0.5577
0.5720	0.5863	0.6006	0.6149	0.6293
0.6438	0.6583	0.6728	0.6874	0.7020
0.7167	0.7314	0.7461	0.7608	0.7756
0.7904	0.8053	0.8201	0.8350	0.8499
0.8649	0.8798	0.8948	0.9098	0.9248
0.9398	0.9548	0.9699	0.9849	1.0000

Width:

0.0909	0.0909	0.0909	0.0909	0.1000
0.1200	0.1400	0.1600	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect channel-main2nd
Area:

0.0061	0.0122	0.0183	0.0244	0.0306
0.0374	0.0448	0.0529	0.0617	0.0711

0.0812	0.0920	0.1035	0.1156	0.1284
0.1419	0.1560	0.1708	0.1863	0.2025
0.2193	0.2368	0.2550	0.2739	0.2934
0.3136	0.3345	0.3560	0.3782	0.4011
0.4247	0.4489	0.4738	0.4994	0.5256
0.5525	0.5801	0.6084	0.6373	0.6669
0.6972	0.7282	0.7598	0.7921	0.8251
0.8587	0.8930	0.9280	0.9637	1.0000

Hrad:

0.0513	0.1000	0.1462	0.1901	0.2337
0.2746	0.3105	0.3427	0.3717	0.3983
0.4229	0.4458	0.4673	0.4876	0.5070
0.5256	0.5434	0.5607	0.5774	0.5937
0.6095	0.6251	0.6403	0.6552	0.6699
0.6844	0.6987	0.7128	0.7267	0.7406
0.7542	0.7678	0.7813	0.7946	0.8079
0.8211	0.8342	0.8473	0.8603	0.8732
0.8861	0.8989	0.9116	0.9244	0.9371
0.9497	0.9623	0.9749	0.9875	1.0000

Width:

0.1667	0.1667	0.1667	0.1667	0.1750
0.1933	0.2117	0.2300	0.2483	0.2667
0.2850	0.3033	0.3217	0.3400	0.3583
0.3767	0.3950	0.4133	0.4317	0.4500
0.4683	0.4867	0.5050	0.5233	0.5417
0.5600	0.5783	0.5967	0.6150	0.6333
0.6517	0.6700	0.6883	0.7067	0.7250
0.7433	0.7617	0.7800	0.7983	0.8167
0.8350	0.8533	0.8717	0.8900	0.9083
0.9267	0.9450	0.9633	0.9817	1.0000

Transect channel-main3rd

Area:

0.0080	0.0159	0.0239	0.0318	0.0398
0.0483	0.0574	0.0671	0.0774	0.0882
0.0996	0.1116	0.1242	0.1374	0.1511
0.1655	0.1804	0.1959	0.2120	0.2287
0.2459	0.2638	0.2822	0.3012	0.3208
0.3410	0.3617	0.3830	0.4050	0.4275
0.4506	0.4742	0.4985	0.5233	0.5487
0.5747	0.6013	0.6285	0.6562	0.6846
0.7135	0.7430	0.7731	0.8037	0.8350
0.8668	0.8993	0.9323	0.9658	1.0000

Hrad:

0.0437	0.0859	0.1267	0.1660	0.2052
0.2427	0.2773	0.3093	0.3392	0.3672
0.3936	0.4186	0.4424	0.4650	0.4867
0.5075	0.5275	0.5469	0.5656	0.5837
0.6013	0.6184	0.6351	0.6514	0.6673
0.6829	0.6982	0.7132	0.7279	0.7424
0.7567	0.7707	0.7846	0.7983	0.8118
0.8252	0.8384	0.8514	0.8644	0.8772
0.8899	0.9025	0.9150	0.9274	0.9397
0.9519	0.9640	0.9761	0.9881	1.0000

Width:

0.2308	0.2308	0.2308	0.2308	0.2385
0.2554	0.2723	0.2892	0.3062	0.3231
0.3400	0.3569	0.3738	0.3908	0.4077
0.4246	0.4415	0.4585	0.4754	0.4923
0.5092	0.5262	0.5431	0.5600	0.5769
0.5938	0.6108	0.6277	0.6446	0.6615
0.6785	0.6954	0.7123	0.7292	0.7462
0.7631	0.7800	0.7969	0.8138	0.8308
0.8477	0.8646	0.8815	0.8985	0.9154
0.9323	0.9492	0.9662	0.9831	1.0000

Transect channel-overflow1s

Area:

0.0018	0.0035	0.0053	0.0070	0.0088
0.0105	0.0123	0.0140	0.0160	0.0190
0.0230	0.0281	0.0342	0.0414	0.0496
0.0589	0.0693	0.0806	0.0931	0.1066
0.1211	0.1367	0.1533	0.1710	0.1898
0.2096	0.2304	0.2523	0.2753	0.2993
0.3243	0.3504	0.3776	0.4058	0.4350
0.4653	0.4967	0.5291	0.5626	0.5971
0.6326	0.6693	0.7069	0.7456	0.7854
0.8262	0.8681	0.9110	0.9550	1.0000

Hrad:

0.0827	0.1607	0.2344	0.3042	0.3703
0.4331	0.4927	0.5495	0.6009	0.6143
0.6032	0.5833	0.5633	0.5469	0.5350
0.5276	0.5242	0.5241	0.5269	0.5320
0.5390	0.5476	0.5576	0.5687	0.5807
0.5936	0.6072	0.6213	0.6360	0.6511
0.6667	0.6825	0.6987	0.7152	0.7319
0.7488	0.7659	0.7832	0.8007	0.8183
0.8360	0.8539	0.8718	0.8899	0.9080
0.9263	0.9446	0.9630	0.9815	1.0000

Width:

0.0385	0.0385	0.0385	0.0385	0.0385
0.0385	0.0385	0.0385	0.0538	0.0769
0.1000	0.1231	0.1462	0.1692	0.1923
0.2154	0.2385	0.2615	0.2846	0.3077
0.3308	0.3538	0.3769	0.4000	0.4231
0.4462	0.4692	0.4923	0.5154	0.5385
0.5615	0.5846	0.6077	0.6308	0.6538
0.6769	0.7000	0.7231	0.7462	0.7692
0.7923	0.8154	0.8385	0.8615	0.8846
0.9077	0.9308	0.9538	0.9769	1.0000

Transect channel-overflow2n

Area:

0.0031	0.0061	0.0092	0.0122	0.0153
0.0183	0.0214	0.0244	0.0277	0.0319
0.0370	0.0432	0.0503	0.0584	0.0675
0.0775	0.0885	0.1005	0.1135	0.1275
0.1424	0.1583	0.1752	0.1930	0.2119
0.2317	0.2525	0.2742	0.2970	0.3207
0.3454	0.3710	0.3977	0.4253	0.4539
0.4835	0.5140	0.5455	0.5780	0.6115
0.6460	0.6814	0.7178	0.7552	0.7936
0.8329	0.8732	0.9145	0.9568	1.0000

Hrad:

0.0714	0.1405	0.2075	0.2726	0.3357
0.3969	0.4564	0.5142	0.5695	0.6043
0.6222	0.6297	0.6317	0.6311	0.6299
0.6291	0.6292	0.6306	0.6332	0.6369
0.6419	0.6479	0.6548	0.6626	0.6711
0.6804	0.6902	0.7007	0.7116	0.7229
0.7346	0.7467	0.7592	0.7719	0.7849
0.7981	0.8115	0.8252	0.8390	0.8530
0.8672	0.8815	0.8959	0.9105	0.9252
0.9400	0.9548	0.9698	0.9849	1.0000

Width:

0.0698	0.0698	0.0698	0.0698	0.0698

0.0698	0.0698	0.0698	0.0847	0.1070
0.1293	0.1516	0.1740	0.1963	0.2186
0.2409	0.2633	0.2856	0.3079	0.3302
0.3526	0.3749	0.3972	0.4195	0.4419
0.4642	0.4865	0.5088	0.5312	0.5535
0.5758	0.5981	0.6205	0.6428	0.6651
0.6874	0.7098	0.7321	0.7544	0.7767
0.7991	0.8214	0.8437	0.8660	0.8884
0.9107	0.9330	0.9553	0.9777	1.0000

Transect channel-overflow3r
Area:

0.0065	0.0130	0.0195	0.0259	0.0324
0.0389	0.0454	0.0519	0.0586	0.0659
0.0741	0.0831	0.0928	0.1033	0.1146
0.1267	0.1395	0.1531	0.1675	0.1827
0.1987	0.2154	0.2329	0.2512	0.2703
0.2901	0.3107	0.3322	0.3543	0.3773
0.4010	0.4256	0.4509	0.4769	0.5038
0.5314	0.5598	0.5890	0.6190	0.6497
0.6813	0.7136	0.7466	0.7805	0.8151
0.8506	0.8867	0.9237	0.9615	1.0000

Hrad:

0.0383	0.0761	0.1135	0.1505	0.1870
0.2231	0.2588	0.2941	0.3179	0.3344
0.3497	0.3643	0.3785	0.3926	0.4068
0.4211	0.4356	0.4503	0.4652	0.4804
0.4959	0.5115	0.5274	0.5434	0.5596
0.5760	0.5926	0.6093	0.6262	0.6432
0.6603	0.6775	0.6948	0.7123	0.7298
0.7474	0.7650	0.7828	0.8006	0.8185
0.8364	0.8544	0.8724	0.8905	0.9087
0.9269	0.9451	0.9634	0.9817	1.0000

Width:

0.1667	0.1667	0.1667	0.1667	0.1667
0.1667	0.1667	0.1667	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect street-main
Area:

0.0004	0.0014	0.0032	0.0057	0.0089
0.0128	0.0175	0.0248	0.0383	0.0546
0.0713	0.0883	0.1057	0.1235	0.1416
0.1601	0.1789	0.1981	0.2176	0.2375
0.2577	0.2783	0.2993	0.3206	0.3423
0.3643	0.3867	0.4095	0.4326	0.4560
0.4798	0.5040	0.5285	0.5534	0.5786
0.6042	0.6302	0.6565	0.6832	0.7102
0.7376	0.7653	0.7934	0.8218	0.8506
0.8798	0.9093	0.9392	0.9694	1.0000

Hrad:

0.0044	0.0089	0.0133	0.0177	0.0222
0.0266	0.0310	0.0361	0.0464	0.0709
0.0993	0.1293	0.1597	0.1901	0.2203
0.2501	0.2794	0.3083	0.3366	0.3644
0.3917	0.4185	0.4448	0.4705	0.4958
0.5205	0.5448	0.5687	0.5921	0.6150
0.6376	0.6597	0.6815	0.7028	0.7238
0.7444	0.7646	0.7845	0.8041	0.8234
0.8423	0.8610	0.8793	0.8973	0.9151
0.9326	0.9498	0.9668	0.9835	1.0000

Width:

0.0232	0.0463	0.0695	0.0927	0.1159
0.1390	0.1622	0.3377	0.5250	0.5366
0.5481	0.5597	0.5713	0.5829	0.5945
0.6061	0.6177	0.6292	0.6408	0.6524
0.6640	0.6756	0.6872	0.6988	0.7103
0.7219	0.7335	0.7451	0.7567	0.7683
0.7799	0.7914	0.8030	0.8146	0.8262
0.8378	0.8494	0.8610	0.8726	0.8841
0.8957	0.9073	0.9189	0.9305	0.9421
0.9537	0.9652	0.9768	0.9884	1.0000

Transect street-overflow
Area:

0.0013	0.0031	0.0052	0.0078	0.0108
0.0141	0.0179	0.0221	0.0267	0.0317
0.0371	0.0429	0.0492	0.0558	0.0628
0.0703	0.0781	0.0864	0.0951	0.1042
0.1136	0.1235	0.1338	0.1445	0.1557
0.1672	0.1791	0.1915	0.2042	0.2174
0.2309	0.2449	0.2593	0.2750	0.2953
0.3203	0.3501	0.3846	0.4239	0.4679
0.5150	0.5635	0.6133	0.6645	0.7170
0.7709	0.8261	0.8827	0.9407	1.0000

Hrad:

0.0251	0.0454	0.0634	0.0802	0.0963
0.1118	0.1270	0.1420	0.1568	0.1714
0.1860	0.2005	0.2149	0.2292	0.2435
0.2577	0.2720	0.2861	0.3003	0.3145
0.3286	0.3427	0.3568	0.3709	0.3849
0.3990	0.4131	0.4271	0.4411	0.4552
0.4692	0.4832	0.4972	0.4907	0.4752
0.4645	0.4602	0.4631	0.4730	0.4895
0.5265	0.5697	0.6175	0.6683	0.7213
0.7758	0.8313	0.8874	0.9437	1.0000

Width:

0.0257	0.0325	0.0392	0.0460	0.0528
0.0596	0.0664	0.0732	0.0800	0.0868
0.0936	0.1004	0.1072	0.1140	0.1208
0.1275	0.1343	0.1411	0.1479	0.1547
0.1615	0.1683	0.1751	0.1819	0.1887
0.1955	0.2023	0.2091	0.2158	0.2226
0.2294	0.2362	0.2430	0.2981	0.3774
0.4566	0.5358	0.6151	0.6943	0.7736
0.7962	0.8189	0.8415	0.8642	0.8868
0.9094	0.9321	0.9547	0.9774	1.0000

Transect largeriver
Area:

0.0049	0.0097	0.0146	0.0194	0.0243
0.0291	0.0340	0.0388	0.0437	0.0485
0.0535	0.0588	0.0644	0.0703	0.0765
0.0829	0.0897	0.0967	0.1040	0.1117
0.1204	0.1311	0.1437	0.1583	0.1748
0.1932	0.2136	0.2359	0.2602	0.2864
0.3146	0.3447	0.3767	0.4107	0.4466
0.4835	0.5204	0.5573	0.5942	0.6311
0.6680	0.7049	0.7417	0.7786	0.8155

0.8524	0.8893	0.9262	0.9631	1.0000

Hrad:

0.0621	0.1218	0.1792	0.2345	0.2878
0.3392	0.3888	0.4367	0.4829	0.5276
0.5782	0.6249	0.6681	0.7083	0.7458
0.7810	0.8140	0.8452	0.8747	0.9028
0.9102	0.9083	0.8978	0.8815	0.8620
0.8413	0.8209	0.8017	0.7841	0.7686
0.7551	0.7436	0.7341	0.7265	0.7205
0.7291	0.7407	0.7546	0.7704	0.7877
0.8061	0.8255	0.8457	0.8665	0.8879
0.9097	0.9318	0.9543	0.9771	1.0000

Width:

0.1316	0.1316	0.1316	0.1316	0.1316
0.1316	0.1316	0.1316	0.1316	0.1316
0.1395	0.1474	0.1553	0.1632	0.1711
0.1789	0.1868	0.1947	0.2026	0.2105
0.2632	0.3158	0.3684	0.4211	0.4737
0.5263	0.5789	0.6316	0.6842	0.7368
0.7895	0.8421	0.8947	0.9474	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000

Transect channel-main1a

Area:

0.0036	0.0072	0.0108	0.0144	0.0181
0.0225	0.0276	0.0336	0.0403	0.0479
0.0562	0.0653	0.0752	0.0860	0.0975
0.1098	0.1228	0.1367	0.1514	0.1669
0.1832	0.2002	0.2181	0.2367	0.2561
0.2764	0.2974	0.3192	0.3418	0.3652
0.3894	0.4144	0.4402	0.4668	0.4942
0.5223	0.5513	0.5811	0.6116	0.6430
0.6751	0.7080	0.7417	0.7762	0.8116
0.8477	0.8846	0.9222	0.9607	1.0000

Hrad:

0.0651	0.1237	0.1767	0.2250	0.2728
0.3142	0.3458	0.3710	0.3921	0.4107
0.4275	0.4433	0.4584	0.4731	0.4875
0.5018	0.5160	0.5302	0.5443	0.5585
0.5727	0.5869	0.6012	0.6156	0.6300
0.6444	0.6588	0.6734	0.6879	0.7025
0.7171	0.7318	0.7465	0.7612	0.7760
0.7908	0.8056	0.8204	0.8353	0.8502
0.8651	0.8800	0.8949	0.9099	0.9249
0.9399	0.9549	0.9699	0.9849	1.0000

Width:

0.0909	0.0909	0.0909	0.0909	0.1000
0.1200	0.1400	0.1600	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect channel-overflow1a

Area:

0.0018	0.0035	0.0053	0.0070	0.0088
0.0105	0.0123	0.0140	0.0160	0.0190
0.0230	0.0281	0.0342	0.0414	0.0496
0.0589	0.0693	0.0806	0.0931	0.1066
0.1211	0.1367	0.1533	0.1710	0.1898
0.2096	0.2304	0.2523	0.2753	0.2993
0.3243	0.3504	0.3776	0.4058	0.4350
0.4653	0.4967	0.5291	0.5626	0.5971
0.6326	0.6693	0.7069	0.7456	0.7854
0.8262	0.8681	0.9110	0.9550	1.0000

Hrad:

0.0830	0.1612	0.2352	0.3052	0.3715
0.4345	0.4943	0.5513	0.6028	0.6163
0.6051	0.5851	0.5650	0.5484	0.5363
0.5288	0.5253	0.5252	0.5278	0.5329
0.5398	0.5484	0.5583	0.5694	0.5814
0.5942	0.6077	0.6219	0.6365	0.6516
0.6671	0.6830	0.6991	0.7155	0.7322
0.7491	0.7662	0.7835	0.8009	0.8185
0.8362	0.8540	0.8720	0.8900	0.9082
0.9264	0.9447	0.9631	0.9815	1.0000

Width:

0.0385	0.0385	0.0385	0.0385	0.0385
0.0385	0.0385	0.0385	0.0538	0.0769
0.1000	0.1231	0.1462	0.1692	0.1923
0.2154	0.2385	0.2615	0.2846	0.3077
0.3308	0.3538	0.3769	0.4000	0.4231
0.4462	0.4692	0.4923	0.5154	0.5385
0.5615	0.5846	0.6077	0.6308	0.6538
0.6769	0.7000	0.7231	0.7462	0.7692
0.7923	0.8154	0.8385	0.8615	0.8846
0.9077	0.9308	0.9538	0.9769	1.0000

Transect Channel-overflow2a

Area:

0.0031	0.0061	0.0092	0.0122	0.0153
0.0183	0.0214	0.0244	0.0277	0.0319
0.0370	0.0432	0.0503	0.0584	0.0675
0.0775	0.0885	0.1005	0.1135	0.1275
0.1424	0.1583	0.1752	0.1930	0.2119
0.2317	0.2525	0.2742	0.2970	0.3207
0.3454	0.3710	0.3977	0.4253	0.4539
0.4835	0.5140	0.5455	0.5780	0.6115
0.6460	0.6814	0.7178	0.7552	0.7936
0.8329	0.8732	0.9145	0.9568	1.0000

Hrad:

0.0716	0.1409	0.2081	0.2733	0.3366
0.3980	0.4577	0.5156	0.5711	0.6060
0.6239	0.6314	0.6333	0.6326	0.6314
0.6305	0.6306	0.6318	0.6343	0.6381
0.6429	0.6489	0.6558	0.6635	0.6720
0.6812	0.6910	0.7014	0.7122	0.7235
0.7352	0.7473	0.7597	0.7724	0.7853
0.7985	0.8119	0.8256	0.8394	0.8533
0.8675	0.8817	0.8961	0.9107	0.9253
0.9401	0.9549	0.9699	0.9849	1.0000

Width:

0.0698	0.0698	0.0698	0.0698	0.0698
0.0698	0.0698	0.0698	0.0847	0.1070
0.1293	0.1516	0.1740	0.1963	0.2186
0.2409	0.2633	0.2856	0.3079	0.3302
0.3526	0.3749	0.3972	0.4195	0.4419
0.4642	0.4865	0.5088	0.5312	0.5535
0.5758	0.5981	0.6205	0.6428	0.6651
0.6874	0.7098	0.7321	0.7544	0.7767

```
            0.7991     0.8214     0.8437     0.8660     0.8884
            0.9107     0.9330     0.9553     0.9777     1.0000


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......      2390.208         1.688
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........      2288.038         1.616
Surface Runoff ...........        99.379         0.070
Final Surface Storage ....         3.619         0.003
Continuity Error (%) .....        -0.035


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      10^6 gal
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......        99.379        32.384
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........        96.787        31.539
Internal Outflow .........         3.099         1.010
Storage Losses ...........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         0.006         0.002
Continuity Error (%) .....        -0.516


*******************************
  Highest Flow Instability Indexes
  *******************************
  Link C8 (2)
  Link C9 (2)
  Link C28 (2)
  Link C47 (2)
  Link C46 (2)


  *************************
  Routing Time Step Summary
  *************************
  Minimum Time Step           :   300.00 sec
  Average Time Step           :   300.00 sec
  Maximum Time Step           :   300.00 sec
  Percent in Steady State     :     0.00
  Average Iterations per Step :     1.03


  ***************************
  Subcatchment Runoff Summary
  ***************************

  ---------------------------------------------------------------------------------------------
----------
                            Total      Total      Total      Total      Total       Total
Peak  Runoff
                           Precip      Runon       Evap      Infil     Runoff      Runoff
Runoff   Coeff
  Subcatchment                 in         in         in         in         in    10^6 gal
CFS
  ---------------------------------------------------------------------------------------------
----------
  SO23                                  1.69       0.00       0.00       0.37       1.26       0.23
20.60   0.749
  SO22                                  1.69       0.00       0.00       0.27       1.36       0.19
16.74   0.807
  SO31                                  1.69       0.00       0.00       0.83       0.82       0.17
14.10   0.488
  SO13                                  1.69       0.00       0.00       0.04       1.57       0.07
6.78   0.933
  SO47                                  1.69       0.00       0.00       1.63       0.05      24.26
1449.16   0.032
  SO19                                  1.69       0.00       0.00       0.99       0.68       0.14
10.08   0.404
  SO17                                  1.69       0.00       0.00       0.05       1.56       0.09
8.37   0.926
  SO20                                  1.69       0.00       0.00       0.44       1.20       0.17
15.51   0.711
  SO01                                  1.69       0.00       0.00       0.88       0.78       0.04
3.42   0.464
  SO07                                  1.69       0.00       0.00       0.04       1.58       0.09
8.74   0.934
  SO16                                  1.69       0.00       0.00       0.08       1.54       0.12
11.03   0.910
  SO11                                  1.69       0.00       0.00       0.09       1.53       0.11
10.17   0.907
  SO03                                  1.69       0.00       0.00       0.00       1.61       0.02
1.58   0.955
  SO02                                  1.69       0.00       0.00       0.05       1.57       0.11
9.63   0.928
  SO18                                  1.69       0.00       0.00       0.29       1.34       0.10
9.70   0.796
  SO26                                  1.69       0.00       0.00       0.73       0.92       0.15
12.97   0.544
  SO27                                  1.69       0.00       0.00       0.55       1.10       0.09
8.39   0.649
  SO29                                  1.69       0.00       0.00       0.75       0.90       0.12
10.22   0.534
  SO21                                  1.69       0.00       0.00       0.40       1.24       0.13
11.85   0.733
  SO24                                  1.69       0.00       0.00       0.47       1.17       0.21
19.24   0.691
  SO04                                  1.69       0.00       0.00       0.00       1.62       0.01
1.21   0.959
  SO25                                  1.69       0.00       0.00       0.78       0.87       0.15
12.63   0.517
  SO05                                  1.69       0.00       0.00       0.04       1.58       0.15
14.07   0.934
  SO06                                  1.69       0.00       0.00       0.04       1.57       0.15
13.71   0.933
  SO08                                  1.69       0.00       0.00       0.04       1.57       0.06
5.67   0.931
  SO09                                  1.69       0.00       0.00       0.05       1.57       0.06
5.99   0.930
  SO10                                  1.69       0.00       0.00       0.00       1.61       0.02
1.68   0.953
  SO14                                  1.69       0.00       0.00       0.00       1.62       0.01
1.06   0.958
  SO12                                  1.69       0.00       0.00       0.04       1.58       0.08
6.74   0.934
  SO15                                  1.69       0.00       0.00       0.08       1.54       0.12
11.02   0.911
```

SO30	1.69	0.00	0.00	0.83	0.83	0.05	4.29	0.493					
SO32	1.69	0.00	0.00	0.58	1.06	0.40	34.63	0.628					
SO35	1.69	0.00	0.00	0.48	1.16	0.21	19.15	0.688					
SO33	1.69	0.00	0.00	0.49	1.15	0.08	7.28	0.683					
SO34	1.69	0.00	0.00	1.11	0.56	0.09	6.80	0.330					
SO36	1.69	0.00	0.00	0.63	1.02	0.34	30.16	0.604					
SO39	1.69	0.00	0.00	0.38	1.26	0.10	9.62	0.745					
SO38	1.69	0.00	0.00	0.57	1.08	0.07	6.01	0.639					
SO41	1.69	0.00	0.00	0.89	0.78	0.06	4.95	0.460					
SO42	1.69	0.00	0.00	0.85	0.81	0.22	18.20	0.481					
SO43	1.69	0.00	0.00	0.94	0.73	0.16	12.80	0.430					
SO40	1.69	0.00	0.00	0.85	0.81	0.11	9.03	0.477					
SO44	1.69	0.00	0.00	0.69	0.96	0.06	4.82	0.569					
SO50	1.69	0.00	0.00	0.82	0.85	0.17	14.14	0.501					
SO37	1.69	0.00	0.00	1.18	0.49	0.39	25.97	0.292					
SO45	1.69	0.00	0.00	0.75	0.91	0.12	10.34	0.540					
SO28	1.69	0.00	0.00	0.81	0.85	0.20	17.48	0.501					
SO48	1.69	0.00	0.00	1.28	0.40	1.29	82.91	0.238					
SO49	1.69	0.00	0.00	1.33	0.35	0.67	33.73	0.208					
SO46	1.69	0.00	0.00	0.56	1.09	0.19	16.88	0.644					
SO51	1.69	0.00	0.00	1.03	0.66	0.02	2.07	0.389					

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min
J-SO19	JUNCTION	0.02	1.00	6707.00	0 00:40
J5	JUNCTION	0.01	0.29	6703.29	0 00:40
J-SO03	JUNCTION	0.04	1.64	6702.64	0 00:35
J-SO02	JUNCTION	0.02	0.88	6694.88	0 00:40
J-SO17	JUNCTION	0.04	1.36	6702.36	0 00:45
J-SO20	JUNCTION	0.02	0.84	6714.84	0 00:35
J-SO49	JUNCTION	0.03	1.01	6751.01	0 00:35
J-SO27	JUNCTION	0.01	0.51	6750.51	0 00:35
J-SO28	JUNCTION	0.05	1.85	6764.85	0 00:35
J-SO29	JUNCTION	0.03	1.76	6753.76	0 00:35
J-SO31	JUNCTION	0.04	1.56	6724.56	0 00:40
J-SO24	JUNCTION	0.14	5.39	6719.39	0 00:40
J-SO23	JUNCTION	0.07	1.21	6723.21	0 00:35
J-SO18	JUNCTION	0.15	5.35	6701.35	0 00:45
J-SO22	JUNCTION	0.18	10.00	6714.00	0 00:40
J-SO05	JUNCTION	0.01	0.41	6698.41	0 00:40
J-SO13	JUNCTION	0.07	1.30	6720.30	0 00:35
J-SO12	JUNCTION	0.04	1.28	6718.28	0 00:40
J-SO26	JUNCTION	0.02	0.64	6750.64	0 00:35
J-SO16	JUNCTION	0.03	1.13	6706.13	0 00:35
J-SO21	JUNCTION	0.02	1.36	6705.36	0 00:35
J-SO04	JUNCTION	0.01	0.46	6698.46	0 00:35
J-SO25	JUNCTION	0.03	1.66	6715.66	0 00:35
J-SO06	JUNCTION	0.01	0.28	6700.28	0 00:45
J-SO08	JUNCTION	0.04	1.58	6706.08	0 00:40
J-SO07	JUNCTION	0.02	1.12	6705.12	0 00:40
J-SO09	JUNCTION	0.03	1.10	6707.10	0 00:35
J-SO11	JUNCTION	0.06	1.00	6722.00	0 00:35
J-SO14	JUNCTION	0.01	0.24	6717.24	0 00:35
J-SO15	JUNCTION	0.02	0.82	6712.82	0 00:35
J-SO30	JUNCTION	0.05	1.83	6753.83	0 00:40
J-SO32	JUNCTION	0.14	5.50	6728.50	0 00:40
J-SO35	JUNCTION	0.06	1.60	6753.60	0 00:40
J-SO33	JUNCTION	0.14	6.00	6738.00	0 00:40
J-SO34	JUNCTION	0.05	1.61	6741.61	0 00:40
J-SO40	JUNCTION	0.14	5.50	6747.50	0 00:35
J-SO44	JUNCTION	0.02	0.92	6752.92	0 00:35
J-SO36	JUNCTION	0.09	1.51	6755.51	0 00:45
J-SO39	JUNCTION	0.08	1.33	6771.33	0 00:35
J-SO38	JUNCTION	0.02	0.85	6778.85	0 00:35
J-SO47	JUNCTION	0.12	5.47	6761.47	0 00:35
J-SO41	JUNCTION	0.13	5.24	6743.24	0 00:40
J-SO42	JUNCTION	0.02	0.62	6777.62	0 00:35
J-SO43	JUNCTION	0.01	0.61	6742.61	0 00:35
J-SO46	JUNCTION	0.02	0.56	6790.56	0 00:35
J-SO37	JUNCTION	0.03	1.28	6779.28	0 00:35
J-SO45	JUNCTION	0.13	5.46	6755.46	0 00:35
J-SO48	JUNCTION	0.04	1.70	6775.70	0 00:35
J-SO10	JUNCTION	0.03	0.98	6720.98	0 00:35
J-SO50	JUNCTION	0.01	0.36	6804.36	0 00:35
J1	JUNCTION	0.04	1.55	6769.55	0 00:40
J2	JUNCTION	0.14	5.50	6753.50	0 00:35
J4	JUNCTION	0.15	5.50	6708.50	0 00:40
J6	JUNCTION	0.03	1.12	6701.12	0 00:40
J-SO01	JUNCTION	0.10	3.65	6691.65	0 00:45
J3	JUNCTION	0.03	1.10	6699.10	0 00:40
J7	JUNCTION	0.04	1.59	6705.59	0 00:40
OF1	OUTFALL	0.02	0.84	6688.84	0 00:40

****
Node Inflow Summary
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Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal
J-SO19	JUNCTION	10.08	41.82	0 00:40	0.136	0.802
J5	JUNCTION	0.00	0.91	0 00:40	0.000	0.011
J-SO03	JUNCTION	1.58	1.58	0 00:35	0.016	0.016

J-SO02	JUNCTION	9.63	76.77	0	00:40	0.106	1.136
J-SO17	JUNCTION	8.37	25.17	0	00:40	0.088	0.337
J-SO20	JUNCTION	15.51	26.34	0	00:35	0.168	0.317
J-SO49	JUNCTION	33.73	33.73	0	00:35	0.666	0.666
J-SO27	JUNCTION	8.39	8.39	0	00:35	0.093	0.093
J-SO28	JUNCTION	17.48	90.90	0	00:35	0.204	1.494
J-SO29	JUNCTION	10.22	10.22	0	00:35	0.118	0.118
J-SO31	JUNCTION	14.10	111.41	0	00:40	0.167	1.831
J-SO24	JUNCTION	19.24	1395.54	0	00:40	0.214	28.801
J-SO23	JUNCTION	20.60	20.60	0	00:35	0.228	0.228
J-SO18	JUNCTION	9.70	1356.10	0	00:45	0.102	30.332
J-SO22	JUNCTION	16.74	1358.56	0	00:40	0.185	29.114
J-SO05	JUNCTION	14.07	14.94	0	00:35	0.150	0.162
J-SO13	JUNCTION	6.78	24.66	0	00:35	0.071	0.298
J-SO12	JUNCTION	6.74	29.02	0	00:35	0.075	0.374
J-SO26	JUNCTION	12.97	12.97	0	00:35	0.149	0.149
J-SO16	JUNCTION	11.03	19.16	0	00:35	0.116	0.232
J-SO21	JUNCTION	11.85	11.85	0	00:35	0.126	0.126
J-SO04	JUNCTION	1.21	1.21	0	00:35	0.012	0.012
J-SO25	JUNCTION	12.63	12.63	0	00:35	0.147	0.147
J-SO06	JUNCTION	13.71	13.99	0	00:35	0.146	0.156
J-SO08	JUNCTION	5.67	18.57	0	00:40	0.057	0.248
J-SO07	JUNCTION	8.74	35.08	0	00:40	0.088	0.462
J-SO09	JUNCTION	5.99	15.11	0	00:35	0.061	0.191
J-SO11	JUNCTION	10.17	10.17	0	00:35	0.113	0.113
J-SO14	JUNCTION	1.06	1.06	0	00:35	0.011	0.011
J-SO15	JUNCTION	11.02	11.02	0	00:35	0.116	0.116
J-SO30	JUNCTION	4.29	100.79	0	00:40	0.052	1.664
J-SO32	JUNCTION	34.63	1389.27	0	00:40	0.398	28.441
J-SO35	JUNCTION	19.15	72.51	0	00:40	0.207	1.277
J-SO33	JUNCTION	7.28	1341.23	0	00:40	0.079	26.433
J-SO34	JUNCTION	6.80	78.36	0	00:40	0.091	1.368
J-SO40	JUNCTION	9.03	1212.93	0	00:35	0.109	24.922
J-SO44	JUNCTION	4.82	19.40	0	00:35	0.055	0.243
J-SO36	JUNCTION	30.16	59.48	0	00:45	0.339	1.070
J-SO39	JUNCTION	9.62	27.02	0	00:35	0.104	0.343
J-SO38	JUNCTION	6.01	18.86	0	00:35	0.066	0.240
J-SO47	JUNCTION	1449.16	1449.16	0	00:35	24.261	24.261
J-SO41	JUNCTION	4.95	1227.24	0	00:40	0.063	24.985
J-SO42	JUNCTION	18.20	18.20	0	00:35	0.223	0.223
J-SO43	JUNCTION	12.80	30.00	0	00:35	0.163	0.386
J-SO46	JUNCTION	16.88	16.88	0	00:35	0.187	0.187
J-SO37	JUNCTION	25.97	25.97	0	00:35	0.387	0.387
J-SO45	JUNCTION	10.34	1356.95	0	00:35	0.123	24.384
J-SO48	JUNCTION	82.91	82.91	0	00:35	1.290	1.290
J-SO10	JUNCTION	1.68	11.11	0	00:35	0.017	0.130
J-SO50	JUNCTION	14.14	14.14	0	00:35	0.173	0.173
J1	JUNCTION	0.00	49.50	0	00:40	0.000	0.731
J2	JUNCTION	0.00	1338.69	0	00:35	0.000	24.626
J4	JUNCTION	0.00	1277.86	0	00:40	0.000	28.998
J6	JUNCTION	0.00	63.70	0	00:40	0.000	0.867
J-SO01	JUNCTION	5.49	1382.44	0	00:45	0.067	30.400
J3	JUNCTION	0.00	71.85	0	00:40	0.000	1.030
J7	JUNCTION	0.00	54.05	0	00:40	0.000	0.710
OF1	OUTFALL	0.00	1455.58	0	00:45	0.000	31.537

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Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
J-SO22	JUNCTION	0.25	0.000	0.000
J-SO32	JUNCTION	0.08	0.000	0.000
J-SO33	JUNCTION	0.17	0.000	0.000
J-SO40	JUNCTION	0.17	0.000	0.000
J2	JUNCTION	0.25	0.000	0.000
J4	JUNCTION	0.17	0.000	0.000

****
Node Flooding Summary
****

Flooding refers to all water that overflows a node, whether it ponds or not.

Node	Hours Flooded	Maximum Rate CFS	Time of Max Occurrence days hr:min	Total Flood Volume 10^6 gal	Maximum Ponded Volume 1000 ft3
J-SO22	0.25	98.23	0 00:45	0.441	0.000
J-SO33	0.17	43.63	0 00:40	0.196	0.000
J2	0.25	83.10	0 00:40	0.373	0.000

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume 10^6 gal
OF1	38.65	63.02	1455.58	31.537
System	38.65	63.02	1455.58	31.537

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
C1	CHANNEL	17.40	0 00:35	3.13	0.02	0.28
C2	CHANNEL	22.99	0 00:40	2.16	0.05	0.39
C3	CHANNEL	26.51	0 00:40	1.78	0.01	0.19
C4	CHANNEL	46.11	0 00:45	2.94	0.08	0.49
C5	CHANNEL	59.95	0 00:40	3.30	0.01	0.20
C6	CHANNEL	1346.61	0 00:35	8.85	0.92	0.98
C7	CHANNEL	1320.34	0 00:35	8.15	0.96	0.99
C8	DUMMY	30.00	0 00:35			
C9	CHANNEL	17.20	0 00:35	4.95	0.01	0.20
C10	CHANNEL	1173.90	0 00:35	7.20	1.00	1.00
C11	CHANNEL	18.35	0 00:35	4.50	0.02	0.16
C12	CHANNEL	14.58	0 00:35	3.73	0.00	0.09

C13	CHANNEL	12.85	0	00:35	4.82	0.00	0.06
C14	CHANNEL	1223.37	0	00:40	9.99	0.69	0.84
C15	CHANNEL	1261.54	0	00:40	8.16	0.93	0.96
C16	CHANNEL	75.12	0	00:45	5.53	0.02	0.24
C17	CHANNEL	73.66	0	00:40	3.94	0.10	0.54
C19	CHANNEL	73.42	0	00:35	4.05	0.10	0.55
C20	CHANNEL	89.23	0	00:40	3.86	0.13	0.60
C21	CHANNEL	101.97	0	00:40	5.77	0.09	0.52
C22	CHANNEL	8.73	0	00:35	0.29	0.02	0.17
C23	CHANNEL	1253.97	0	00:40	7.62	1.00	1.00
C24	DUMMY	111.41	0	00:40			
C25	CHANNEL	1373.21	0	00:40	9.46	0.85	0.93
C26	CHANNEL	11.78	0	00:35	0.36	0.02	0.16
C27	CHANNEL	1338.70	0	00:40	8.78	0.92	0.97
C28	CHANNEL	11.41	0	00:35	0.42	0.02	0.13
C29	CHANNEL	25.35	0	00:35	4.31	0.02	0.28
C30	CHANNEL	1255.75	0	00:40	7.56	1.00	1.00
C31	CHANNEL	10.93	0	00:40	3.64	0.01	0.20
C32	CHANNEL	33.49	0	00:40	4.29	0.03	0.33
C33	CHANNEL	7.45	0	00:40	3.42	0.01	0.16
C34	DUMMY	41.82	0	00:40			
C35	CHANNEL	1379.40	0	00:45	4.84	0.29	0.61
C36	CHANNEL	1292.30	0	00:45	8.23	0.94	0.97
C37	CHANNEL	25.81	0	00:40	2.59	0.04	0.38
C38	CHANNEL	1.02	0	00:45	0.09	0.07	0.44
C39	CHANNEL	73.35	0	00:40	4.42	0.01	0.09
C40	CHANNEL	1.03	0	00:40	0.14	0.00	0.04
C41	CHANNEL	70.09	0	00:40	3.97	0.01	0.09
C42	DUMMY	13.99	0	00:35			
C43	CHANNEL	0.91	0	00:40	1.38	0.00	0.07
C44	CHANNEL	18.98	0	00:40	1.08	0.10	0.53
C45	CHANNEL	15.21	0	00:40	1.64	0.04	0.36
C46	CHANNEL	10.40	0	00:40	2.73	0.01	0.22
C47	CHANNEL	9.44	0	00:35	1.64	0.00	0.14
C48	CHANNEL	29.89	0	00:40	3.14	0.04	0.37
C49	CHANNEL	17.88	0	00:35	2.10	0.00	0.17
C50	CHANNEL	23.05	0	00:40	1.77	0.00	0.18
C51	CHANNEL	54.00	0	00:40	3.64	0.01	0.07
C52	CHANNEL	0.81	0	00:45	0.90	0.00	0.09
C53	CHANNEL	9.63	0	00:40	2.07	0.02	0.26
C54	CHANNEL	61.54	0	00:40	2.81	0.01	0.11
C55	CHANNEL	18.77	0	00:40	1.98	0.04	0.37
C18	DUMMY	1382.44	0	00:45			
C56	DUMMY	14.94	0	00:35			
C57	DUMMY	35.08	0	00:40			

****
Conduit Surcharge Summary
****

Conduit	Hours Full Both Ends	Hours Full Upstream	Hours Full Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C8	0.01	0.01	0.01	48.08	0.01
C10	0.17	0.17	0.17	0.17	0.17
C23	0.08	0.08	0.08	0.08	0.08
C24	0.01	0.01	0.01	48.08	0.01
C30	0.17	0.17	0.17	0.17	0.17
C34	0.01	0.01	0.01	48.08	0.01
C42	0.01	0.01	0.01	48.08	0.01
C18	0.01	0.01	0.01	48.08	0.01
C56	0.01	0.01	0.01	48.08	0.01
C57	0.01	0.01	0.01	48.08	0.01

Analysis begun on: Thu Feb 21 08:42:35 2013
Analysis ended on: Thu Feb 21 08:42:35 2013
Total elapsed time: < 1 sec

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.022)

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NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... KINWAVE
Starting Date JUL-28-2012 00:00:00
Ending Date JUL-29-2012 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:01:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 5.00 sec

WARNING 04: minimum elevation drop used for Conduit C10

WARNING 04: minimum elevation drop used for Conduit C12

****
Element Count
****
Number of rain gages 3
Number of subcatchments ... 28
Number of nodes 36
Number of links 36
Number of pollutants 0
Number of land uses 0

****
Raingage Summary
****

Name	Data Source	Data Type	Recording Interval
rg100	SCS_24h_Type_II_2.8in	INTENSITY	15 min.
UDFCD100	UDFCD100	VOLUME	5 min.
UDFCD5	Timeseries1	VOLUME	5 min.

****
Subcatchment Summary
****

Name	Area	Width	%Imperv	%Slope	Rain Gage	Outlet
SP17	3.05	767.81	78.10	5.0013	UDFCD100	J-SP17
SP02	3.19	789.40	97.20	2.2802	UDFCD100	J-SP02
SP03	3.32	808.52	97.00	2.0779	UDFCD100	J-SP03
SP08	1.63	457.73	97.00	4.7190	UDFCD100	J-SP08
SP07	3.41	757.15	94.30	2.4698	UDFCD100	J-SP07
SP06	0.75	448.35	95.80	1.8735	UDFCD100	J-SP06
SP15	0.70	521.69	85.70	6.0381	UDFCD100	J-SP15
SP16	0.37	555.11	91.90	5.7646	UDFCD100	J-SP16
SP18	3.97	1223.41	60.90	5.2149	UDFCD100	J-SP18
SP19	8.53	2312.10	56.00	3.7369	UDFCD100	J-SP19
SP04	3.27	741.37	97.00	2.6707	UDFCD100	J-SP04
SP05	2.58	690.22	93.90	1.2170	UDFCD100	J-SP05
SP01	1.40	511.32	96.90	2.7967	UDFCD100	J-SP01
SP10	1.45	439.36	91.70	6.8054	UDFCD100	J-SP10
SP09	2.48	1112.73	92.20	2.7320	UDFCD100	J-SP09
SP23	14.92	2138.98	57.10	6.7322	UDFCD100	J-SP23
SP24	32.11	6798.64	10.50	15.6502	UDFCD100	J-SP24
SP20	9.87	2589.79	62.50	6.7032	UDFCD100	J-SP20
SP22	24.16	3513.91	11.90	3.3296	UDFCD100	J-SP22
SP25	4996.84	68657.30	2.50	9.5529	UDFCD100	J-SP25
SP13	37.20	4332.14	31.20	5.9832	UDFCD100	J-SP13
SP11	20.95	6720.63	41.80	6.9309	UDFCD100	J-SP11
SP28	21.38	3489.81	30.20	8.4933	UDFCD100	J-SP28
SP26	69.97	12926.50	26.40	16.3199	UDFCD100	J-SP26
SP27	34.21	5734.08	39.30	10.9869	UDFCD100	J-SP27
SP21	2.82	1884.36	33.70	5.3068	UDFCD100	J-SP21
SP14	5.53	1527.01	72.30	3.6673	UDFCD100	J-SP14
SP12	1.86	957.77	41.70	21.0490	UDFCD100	J-SP12

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Node Summary
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Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
J-SP04	JUNCTION	6710.00	3.00	0.0	
J-SP05	JUNCTION	6728.00	3.00	0.0	
J-SP06	JUNCTION	6729.00	3.00	0.0	
J-SP07	JUNCTION	6729.00	3.00	0.0	
J-SP03	JUNCTION	6717.00	3.00	0.0	
J-SP08	JUNCTION	6730.00	3.00	0.0	
J-SP09	JUNCTION	6732.00	3.00	0.0	
J-SP25	JUNCTION	6828.00	6.00	0.0	
J-SP24	JUNCTION	6840.00	6.00	0.0	
J-SP23	JUNCTION	6816.00	6.00	0.0	
J-SP11	JUNCTION	6732.50	6.00	0.0	
J-SP18	JUNCTION	6752.00	7.00	0.0	
J-SP19	JUNCTION	6770.00	3.00	0.0	
J-SP16	JUNCTION	6748.00	3.00	0.0	
J-SP17	JUNCTION	6736.00	7.00	0.0	
J-SP13	JUNCTION	6742.00	0.00	0.0	
J-SP14	JUNCTION	6742.00	6.00	0.0	
J-SP02	JUNCTION	6716.00	3.00	0.0	
J-SP01	JUNCTION	6718.00	10.00	0.0	
J-SP22	JUNCTION	6750.00	6.00	0.0	
J-SP20	JUNCTION	6754.00	0.00	0.0	
J-SP26	JUNCTION	6827.00	6.00	0.0	
J-SP28	JUNCTION	6986.00	6.00	0.0	
J-SP15	JUNCTION	6748.00	3.00	0.0	
J-SP21	JUNCTION	6754.00	6.00	0.0	

J-SP27	JUNCTION	6826.00	6.00	0.0
J-SP12	JUNCTION	6732.00	6.00	0.0
J1	JUNCTION	6820.00	6.00	0.0
J2	JUNCTION	6796.00	6.00	0.0
J3	JUNCTION	6770.00	6.00	0.0
J5	JUNCTION	6705.00	10.00	0.0
J7	JUNCTION	6715.00	10.00	0.0
J6	JUNCTION	6710.00	10.00	0.0
J4	JUNCTION	6720.00	10.00	0.0
J9	OUTFALL	6700.00	10.00	0.0
J-SP10	DIVIDER	6724.00	6.00	0.0

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Link Summary
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Name	From Node	To Node	Type	Length	%Slope	Roughness
C1	J-SP25	J-SP26	CONDUIT	22.7	4.4096	0.0375
C2	J-SP26	J-SP27	CONDUIT	8.4	12.0191	0.0375
C3	J-SP28	J-SP26	CONDUIT	1791.5	8.9105	0.0730
C4	J-SP24	J1	CONDUIT	169.8	11.8647	0.0730
C5	J-SP27	J1	CONDUIT	113.4	5.2975	0.0730
C6	J1	J2	CONDUIT	860.1	2.7914	0.0730
C7	J2	J3	CONDUIT	1180.7	2.2027	0.0730
C8	J3	J-SP22	CONDUIT	797.7	2.5081	0.0730
C9	J-SP23	J3	CONDUIT	775.2	5.9447	0.0375
C10	J-SP20	J-SP21	CONDUIT	19.6	0.0051	0.0100
C11	J-SP22	J-SP14	CONDUIT	298.0	2.6852	0.0730
C12	J-SP13	J-SP14	CONDUIT	19.2	0.0052	0.0100
C13	J-SP21	J-SP22	CONDUIT	145.2	2.7553	0.0730
C14	J-SP14	J-SP10	CONDUIT	405.7	4.4409	0.0730
C15	J-SP15	J-SP08	CONDUIT	377.7	4.7715	0.0187
C16	J-SP16	J-SP07	CONDUIT	713.1	2.6654	0.0187
C17	J-SP17	J-SP07	CONDUIT	400.8	1.7468	0.0187
C18	J-SP19	J-SP15	CONDUIT	383.2	5.7500	0.0187
C19	J-SP09	J-SP08	CONDUIT	338.6	0.5907	0.0187
C20	J-SP08	J-SP02	CONDUIT	381.9	3.6686	0.0187
C21	J-SP10	J-SP01	CONDUIT	491.6	1.2206	0.0100
C22	J-SP10	J-SP01	CONDUIT	402.1	1.4922	0.0187
C23	J-SP05	J-SP04	CONDUIT	409.3	4.4022	0.0187
C24	J-SP07	J-SP03	CONDUIT	387.3	3.1002	0.0187
C25	J-SP06	J-SP04	CONDUIT	701.2	2.7108	0.0187
C26	J-SP03	J5	CONDUIT	73.9	16.4520	0.0100
C27	J-SP02	J6	CONDUIT	96.8	6.2096	0.0100
C28	J-SP01	J7	CONDUIT	67.4	4.4528	0.0350
C29	J7	J6	CONDUIT	417.9	1.1964	0.0350
C30	J6	J5	CONDUIT	401.4	1.2459	0.0350
C31	J5	J9	CONDUIT	398.8	1.2537	0.0350
C32	J-SP04	J9	CONDUIT	80.1	12.5844	0.0100
C33	J-SP11	J-SP12	CONDUIT	208.3	0.2401	0.0375
C34	J-SP12	J4	CONDUIT	149.5	8.0544	0.0730
C35	J4	J7	CONDUIT	542.5	0.9218	0.0350
C36	J-SP18	J-SP17	CONDUIT	351.7	4.5537	0.0187

****
Cross Section Summary
****

Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
C1	channel-overflow3r	6.00	740.00	1.44	240.00	1	7859.30
C2	channel-overflow3r	6.00	740.00	1.44	240.00	1	12975.41
C3	channel-overflow1a	6.00	548.00	1.40	208.00	1	4164.63
C4	channel-overflow1a	6.00	548.00	1.40	208.00	1	4805.66
C5	Channel-overflow2a	6.00	590.00	1.64	215.00	1	3850.36
C6	Channel-overflow2a	6.00	590.00	1.64	215.00	1	2794.97
C7	Channel-overflow2a	6.00	590.00	1.64	215.00	1	2482.80
C8	Channel-overflow2a	6.00	590.00	1.64	215.00	1	2649.36
C9	channel-overflow1s	6.00	548.00	1.40	208.00	1	6636.44
C10	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C11	Channel-overflow2a	6.00	590.00	1.64	215.00	1	2741.27
C12	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C13	channel-overflow1a	6.00	548.00	1.40	208.00	1	2315.84
C14	Channel-overflow2a	6.00	590.00	1.64	215.00	1	3525.36
C15	street-overflow	3.00	106.00	0.33	106.00	1	884.19
C16	street-overflow	3.00	106.00	0.33	106.00	1	660.84
C17	street-overflow	3.00	106.00	0.33	106.00	1	534.98
C18	street-overflow	3.00	106.00	0.33	106.00	1	970.63
C19	street-overflow	3.00	106.00	0.33	106.00	1	311.11
C20	street-overflow	3.00	106.00	0.33	106.00	1	775.30
C21	RECT_CLOSED	5.00	45.00	1.61	9.00	1	1013.67
C22	street-overflow	3.00	106.00	0.33	106.00	1	494.46
C23	street-overflow	3.00	106.00	0.33	106.00	1	849.29
C24	street-overflow	3.00	106.00	0.33	106.00	1	712.71
C25	street-overflow	3.00	106.00	0.33	106.00	1	666.45
C26	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C27	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C28	largeriver	10.00	824.00	3.15	152.00	1	15850.24
C29	largeriver	10.00	824.00	3.15	152.00	1	8216.04
C30	largeriver	10.00	824.00	3.15	152.00	1	8384.15
C31	largeriver	10.00	824.00	3.15	152.00	1	8410.50
C32	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C33	channel-overflow1s	6.00	548.00	1.40	208.00	1	1333.71
C34	channel-main1a	5.50	122.00	1.60	44.00	1	962.69
C35	largeriver	10.00	824.00	3.15	152.00	1	7211.56
C36	street-main	7.00	329.94	2.45	72.50	1	10145.21

****
Transect Summary
****

Transect channel-main1st
Area:

0.0036	0.0072	0.0108	0.0144	0.0181
0.0225	0.0276	0.0336	0.0403	0.0479
0.0562	0.0653	0.0752	0.0860	0.0975
0.1098	0.1228	0.1367	0.1514	0.1669
0.1832	0.2002	0.2181	0.2367	0.2561
0.2764	0.2974	0.3192	0.3418	0.3652
0.3894	0.4144	0.4402	0.4668	0.4942
0.5223	0.5513	0.5811	0.6116	0.6430
0.6751	0.7080	0.7417	0.7762	0.8116
0.8477	0.8846	0.9222	0.9607	1.0000

Hrad:

0.0649	0.1233	0.1763	0.2244	0.2721
0.3133	0.3449	0.3701	0.3912	0.4097
0.4266	0.4424	0.4575	0.4722	0.4866
0.5009	0.5152	0.5294	0.5435	0.5577
0.5720	0.5863	0.6006	0.6149	0.6293
0.6438	0.6583	0.6728	0.6874	0.7020
0.7167	0.7314	0.7461	0.7608	0.7756
0.7904	0.8053	0.8201	0.8350	0.8499

0.8649	0.8798	0.8948	0.9098	0.9248
0.9398	0.9548	0.9699	0.9849	1.0000

Width:

0.0909	0.0909	0.0909	0.0909	0.1000
0.1200	0.1400	0.1600	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect channel-main2nd

Area:

0.0061	0.0122	0.0183	0.0244	0.0306
0.0374	0.0448	0.0529	0.0617	0.0711
0.0812	0.0920	0.1035	0.1156	0.1284
0.1419	0.1560	0.1708	0.1863	0.2025
0.2193	0.2368	0.2550	0.2739	0.2934
0.3136	0.3345	0.3560	0.3782	0.4011
0.4247	0.4489	0.4738	0.4994	0.5256
0.5525	0.5801	0.6084	0.6373	0.6669
0.6972	0.7282	0.7598	0.7921	0.8251
0.8587	0.8930	0.9280	0.9637	1.0000

Hrad:

0.0513	0.1000	0.1462	0.1901	0.2337
0.2746	0.3105	0.3427	0.3717	0.3983
0.4229	0.4458	0.4673	0.4876	0.5070
0.5256	0.5434	0.5607	0.5774	0.5937
0.6095	0.6251	0.6403	0.6552	0.6699
0.6844	0.6987	0.7128	0.7267	0.7406
0.7542	0.7678	0.7813	0.7946	0.8079
0.8211	0.8342	0.8473	0.8603	0.8732
0.8861	0.8989	0.9116	0.9244	0.9371
0.9497	0.9623	0.9749	0.9875	1.0000

Width:

0.1667	0.1667	0.1667	0.1667	0.1750
0.1933	0.2117	0.2300	0.2483	0.2667
0.2850	0.3033	0.3217	0.3400	0.3583
0.3767	0.3950	0.4133	0.4317	0.4500
0.4683	0.4867	0.5050	0.5233	0.5417
0.5600	0.5783	0.5967	0.6150	0.6333
0.6517	0.6700	0.6883	0.7067	0.7250
0.7433	0.7617	0.7800	0.7983	0.8167
0.8350	0.8533	0.8717	0.8900	0.9083
0.9267	0.9450	0.9633	0.9817	1.0000

Transect channel-main3rd

Area:

0.0080	0.0159	0.0239	0.0318	0.0398
0.0483	0.0574	0.0671	0.0774	0.0882
0.0996	0.1116	0.1242	0.1374	0.1511
0.1655	0.1804	0.1959	0.2120	0.2287
0.2459	0.2638	0.2822	0.3012	0.3208
0.3410	0.3617	0.3830	0.4050	0.4275
0.4506	0.4742	0.4985	0.5233	0.5487
0.5747	0.6013	0.6285	0.6562	0.6846
0.7135	0.7430	0.7731	0.8037	0.8350
0.8668	0.8993	0.9323	0.9658	1.0000

Hrad:

0.0437	0.0859	0.1267	0.1660	0.2052
0.2427	0.2773	0.3093	0.3392	0.3672
0.3936	0.4186	0.4424	0.4650	0.4867
0.5075	0.5275	0.5469	0.5656	0.5837
0.6013	0.6184	0.6351	0.6514	0.6673
0.6829	0.6982	0.7132	0.7279	0.7424
0.7567	0.7707	0.7846	0.7983	0.8118
0.8252	0.8384	0.8514	0.8644	0.8772
0.8899	0.9025	0.9150	0.9274	0.9397
0.9519	0.9640	0.9761	0.9881	1.0000

Width:

0.2308	0.2308	0.2308	0.2308	0.2385
0.2554	0.2723	0.2892	0.3062	0.3231
0.3400	0.3569	0.3738	0.3908	0.4077
0.4246	0.4415	0.4585	0.4754	0.4923
0.5092	0.5262	0.5431	0.5600	0.5769
0.5938	0.6108	0.6277	0.6446	0.6615
0.6785	0.6954	0.7123	0.7292	0.7462
0.7631	0.7800	0.7969	0.8138	0.8308
0.8477	0.8646	0.8815	0.8985	0.9154
0.9323	0.9492	0.9662	0.9831	1.0000

Transect channel-overflow1s

Area:

0.0018	0.0035	0.0053	0.0070	0.0088
0.0105	0.0123	0.0140	0.0160	0.0190
0.0230	0.0281	0.0342	0.0414	0.0496
0.0589	0.0693	0.0806	0.0931	0.1066
0.1211	0.1367	0.1533	0.1710	0.1898
0.2096	0.2304	0.2523	0.2753	0.2993
0.3243	0.3504	0.3776	0.4058	0.4350
0.4653	0.4967	0.5291	0.5626	0.5971
0.6326	0.6693	0.7069	0.7456	0.7854
0.8262	0.8681	0.9110	0.9550	1.0000

Hrad:

0.0827	0.1607	0.2344	0.3042	0.3703
0.4331	0.4927	0.5495	0.6009	0.6143
0.6032	0.5833	0.5633	0.5469	0.5350
0.5276	0.5242	0.5241	0.5269	0.5320
0.5390	0.5476	0.5576	0.5687	0.5807
0.5936	0.6072	0.6213	0.6360	0.6511
0.6667	0.6825	0.6987	0.7152	0.7319
0.7488	0.7659	0.7832	0.8007	0.8183
0.8360	0.8539	0.8718	0.8899	0.9080
0.9263	0.9446	0.9630	0.9815	1.0000

Width:

0.0385	0.0385	0.0385	0.0385	0.0385
0.0385	0.0385	0.0385	0.0538	0.0769
0.1000	0.1231	0.1462	0.1692	0.1923
0.2154	0.2385	0.2615	0.2846	0.3077
0.3308	0.3538	0.3769	0.4000	0.4231
0.4462	0.4692	0.4923	0.5154	0.5385
0.5615	0.5846	0.6077	0.6308	0.6538
0.6769	0.7000	0.7231	0.7462	0.7692
0.7923	0.8154	0.8385	0.8615	0.8846
0.9077	0.9308	0.9538	0.9769	1.0000

Transect channel-overflow2n

Area:

0.0031	0.0061	0.0092	0.0122	0.0153
0.0183	0.0214	0.0244	0.0277	0.0319
0.0370	0.0432	0.0503	0.0584	0.0675
0.0775	0.0885	0.1005	0.1135	0.1275
0.1424	0.1583	0.1752	0.1930	0.2119

0.2317	0.2525	0.2742	0.2970	0.3207
0.3454	0.3710	0.3977	0.4253	0.4539
0.4835	0.5140	0.5455	0.5780	0.6115
0.6460	0.6814	0.7178	0.7552	0.7936
0.8329	0.8732	0.9145	0.9568	1.0000

Hrad:

0.0714	0.1405	0.2075	0.2726	0.3357
0.3969	0.4564	0.5142	0.5695	0.6043
0.6222	0.6297	0.6317	0.6311	0.6299
0.6291	0.6292	0.6306	0.6332	0.6369
0.6419	0.6479	0.6548	0.6626	0.6711
0.6804	0.6902	0.7007	0.7116	0.7229
0.7346	0.7467	0.7592	0.7719	0.7849
0.7981	0.8115	0.8252	0.8390	0.8530
0.8672	0.8815	0.8959	0.9105	0.9252
0.9400	0.9548	0.9698	0.9849	1.0000

Width:

0.0698	0.0698	0.0698	0.0698	0.0698
0.0698	0.0698	0.0698	0.0847	0.1070
0.1293	0.1516	0.1740	0.1963	0.2186
0.2409	0.2633	0.2856	0.3079	0.3302
0.3526	0.3749	0.3972	0.4195	0.4419
0.4642	0.4865	0.5088	0.5312	0.5535
0.5758	0.5981	0.6205	0.6428	0.6651
0.6874	0.7098	0.7321	0.7544	0.7767
0.7991	0.8214	0.8437	0.8660	0.8884
0.9107	0.9330	0.9553	0.9777	1.0000

Transect channel-overflow3r

Area:

0.0065	0.0130	0.0195	0.0259	0.0324
0.0389	0.0454	0.0519	0.0586	0.0659
0.0741	0.0831	0.0928	0.1033	0.1146
0.1267	0.1395	0.1531	0.1675	0.1827
0.1987	0.2154	0.2329	0.2512	0.2703
0.2901	0.3107	0.3322	0.3543	0.3773
0.4010	0.4256	0.4509	0.4769	0.5038
0.5314	0.5598	0.5890	0.6190	0.6497
0.6813	0.7136	0.7466	0.7805	0.8151
0.8506	0.8867	0.9237	0.9615	1.0000

Hrad:

0.0383	0.0761	0.1135	0.1505	0.1870
0.2231	0.2588	0.2941	0.3179	0.3344
0.3497	0.3643	0.3785	0.3926	0.4068
0.4211	0.4356	0.4503	0.4652	0.4804
0.4959	0.5115	0.5274	0.5434	0.5596
0.5760	0.5926	0.6093	0.6262	0.6432
0.6603	0.6775	0.6948	0.7123	0.7298
0.7474	0.7650	0.7828	0.8006	0.8185
0.8364	0.8544	0.8724	0.8905	0.9087
0.9269	0.9451	0.9634	0.9817	1.0000

Width:

0.1667	0.1667	0.1667	0.1667	0.1667
0.1667	0.1667	0.1667	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect street-main

Area:

0.0004	0.0014	0.0032	0.0057	0.0089
0.0128	0.0175	0.0248	0.0383	0.0546
0.0713	0.0883	0.1057	0.1235	0.1416
0.1601	0.1789	0.1981	0.2176	0.2375
0.2577	0.2783	0.2993	0.3206	0.3423
0.3643	0.3867	0.4095	0.4326	0.4560
0.4798	0.5040	0.5285	0.5534	0.5786
0.6042	0.6302	0.6565	0.6832	0.7102
0.7376	0.7653	0.7934	0.8218	0.8506
0.8798	0.9093	0.9392	0.9694	1.0000

Hrad:

0.0044	0.0089	0.0133	0.0177	0.0222
0.0266	0.0310	0.0361	0.0464	0.0709
0.0993	0.1293	0.1597	0.1901	0.2203
0.2501	0.2794	0.3083	0.3366	0.3644
0.3917	0.4185	0.4448	0.4705	0.4958
0.5205	0.5448	0.5687	0.5921	0.6150
0.6376	0.6597	0.6815	0.7028	0.7238
0.7444	0.7646	0.7845	0.8041	0.8234
0.8423	0.8610	0.8793	0.8973	0.9151
0.9326	0.9498	0.9668	0.9835	1.0000

Width:

0.0232	0.0463	0.0695	0.0927	0.1159
0.1390	0.1622	0.3377	0.5250	0.5366
0.5481	0.5597	0.5713	0.5829	0.5945
0.6061	0.6177	0.6292	0.6408	0.6524
0.6640	0.6756	0.6872	0.6988	0.7103
0.7219	0.7335	0.7451	0.7567	0.7683
0.7799	0.7914	0.8030	0.8146	0.8262
0.8378	0.8494	0.8610	0.8726	0.8841
0.8957	0.9073	0.9189	0.9305	0.9421
0.9537	0.9652	0.9768	0.9884	1.0000

Transect street-overflow

Area:

0.0013	0.0031	0.0052	0.0078	0.0108
0.0141	0.0179	0.0221	0.0267	0.0317
0.0371	0.0429	0.0492	0.0558	0.0628
0.0703	0.0781	0.0864	0.0951	0.1042
0.1136	0.1235	0.1338	0.1445	0.1557
0.1672	0.1791	0.1915	0.2042	0.2174
0.2309	0.2449	0.2593	0.2750	0.2953
0.3203	0.3501	0.3846	0.4239	0.4679
0.5150	0.5635	0.6133	0.6645	0.7170
0.7709	0.8261	0.8827	0.9407	1.0000

Hrad:

0.0251	0.0454	0.0634	0.0802	0.0963
0.1118	0.1270	0.1420	0.1568	0.1714
0.1860	0.2005	0.2149	0.2292	0.2435
0.2577	0.2720	0.2861	0.3003	0.3145
0.3286	0.3427	0.3568	0.3709	0.3849
0.3990	0.4131	0.4271	0.4411	0.4552
0.4692	0.4832	0.4972	0.4907	0.4752
0.4645	0.4602	0.4631	0.4730	0.4895
0.5265	0.5697	0.6175	0.6683	0.7213
0.7758	0.8313	0.8874	0.9437	1.0000

Width:

0.0257	0.0325	0.0392	0.0460	0.0528
0.0596	0.0664	0.0732	0.0800	0.0868
0.0936	0.1004	0.1072	0.1140	0.1208
0.1275	0.1343	0.1411	0.1479	0.1547

0.1615	0.1683	0.1751	0.1819	0.1887
0.1955	0.2023	0.2091	0.2158	0.2226
0.2294	0.2362	0.2430	0.2981	0.3774
0.4566	0.5358	0.6151	0.6943	0.7736
0.7962	0.8189	0.8415	0.8642	0.8868
0.9094	0.9321	0.9547	0.9774	1.0000

Transect largeriver
Area:

0.0049	0.0097	0.0146	0.0194	0.0243
0.0291	0.0340	0.0388	0.0437	0.0485
0.0535	0.0588	0.0644	0.0703	0.0765
0.0829	0.0897	0.0967	0.1040	0.1117
0.1204	0.1311	0.1437	0.1583	0.1748
0.1932	0.2136	0.2359	0.2602	0.2864
0.3146	0.3447	0.3767	0.4107	0.4466
0.4835	0.5204	0.5573	0.5942	0.6311
0.6680	0.7049	0.7417	0.7786	0.8155
0.8524	0.8893	0.9262	0.9631	1.0000

Hrad:

0.0621	0.1218	0.1792	0.2345	0.2878
0.3392	0.3888	0.4367	0.4829	0.5276
0.5782	0.6249	0.6681	0.7083	0.7458
0.7810	0.8140	0.8452	0.8747	0.9028
0.9102	0.9083	0.8978	0.8815	0.8620
0.8413	0.8209	0.8017	0.7841	0.7686
0.7551	0.7436	0.7341	0.7265	0.7205
0.7291	0.7407	0.7546	0.7704	0.7877
0.8061	0.8255	0.8457	0.8665	0.8879
0.9097	0.9318	0.9543	0.9771	1.0000

Width:

0.1316	0.1316	0.1316	0.1316	0.1316
0.1316	0.1316	0.1316	0.1316	0.1316
0.1395	0.1474	0.1553	0.1632	0.1711
0.1789	0.1868	0.1947	0.2026	0.2105
0.2632	0.3158	0.3684	0.4211	0.4737
0.5263	0.5789	0.6316	0.6842	0.7368
0.7895	0.8421	0.8947	0.9474	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000

Transect channel-main1a
Area:

0.0036	0.0072	0.0108	0.0144	0.0181
0.0225	0.0276	0.0336	0.0403	0.0479
0.0562	0.0653	0.0752	0.0860	0.0975
0.1098	0.1228	0.1367	0.1514	0.1669
0.1832	0.2002	0.2181	0.2367	0.2561
0.2764	0.2974	0.3192	0.3418	0.3652
0.3894	0.4144	0.4402	0.4668	0.4942
0.5223	0.5513	0.5811	0.6116	0.6430
0.6751	0.7080	0.7417	0.7762	0.8116
0.8477	0.8846	0.9222	0.9607	1.0000

Hrad:

0.0651	0.1237	0.1767	0.2250	0.2728
0.3142	0.3458	0.3710	0.3921	0.4107
0.4275	0.4433	0.4584	0.4731	0.4875
0.5018	0.5160	0.5302	0.5443	0.5585
0.5727	0.5869	0.6012	0.6156	0.6300
0.6444	0.6588	0.6734	0.6879	0.7025
0.7171	0.7318	0.7465	0.7612	0.7760
0.7908	0.8056	0.8204	0.8353	0.8502
0.8651	0.8800	0.8949	0.9099	0.9249
0.9399	0.9549	0.9699	0.9849	1.0000

Width:

0.0909	0.0909	0.0909	0.0909	0.1000
0.1200	0.1400	0.1600	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect channel-overflow1a
Area:

0.0018	0.0035	0.0053	0.0070	0.0088
0.0105	0.0123	0.0140	0.0160	0.0190
0.0230	0.0281	0.0342	0.0414	0.0496
0.0589	0.0693	0.0806	0.0931	0.1066
0.1211	0.1367	0.1533	0.1710	0.1898
0.2096	0.2304	0.2523	0.2753	0.2993
0.3243	0.3504	0.3776	0.4058	0.4350
0.4653	0.4967	0.5291	0.5626	0.5971
0.6326	0.6693	0.7069	0.7456	0.7854
0.8262	0.8681	0.9110	0.9550	1.0000

Hrad:

0.0830	0.1612	0.2352	0.3052	0.3715
0.4345	0.4943	0.5513	0.6028	0.6163
0.6051	0.5851	0.5650	0.5484	0.5363
0.5288	0.5253	0.5252	0.5278	0.5329
0.5398	0.5484	0.5583	0.5694	0.5814
0.5942	0.6077	0.6219	0.6365	0.6516
0.6671	0.6830	0.6991	0.7155	0.7322
0.7491	0.7662	0.7835	0.8009	0.8185
0.8362	0.8540	0.8720	0.8900	0.9082
0.9264	0.9447	0.9631	0.9815	1.0000

Width:

0.0385	0.0385	0.0385	0.0385	0.0385
0.0385	0.0385	0.0385	0.0538	0.0769
0.1000	0.1231	0.1462	0.1692	0.1923
0.2154	0.2385	0.2615	0.2846	0.3077
0.3308	0.3538	0.3769	0.4000	0.4231
0.4462	0.4692	0.4923	0.5154	0.5385
0.5615	0.5846	0.6077	0.6308	0.6538
0.6769	0.7000	0.7231	0.7462	0.7692
0.7923	0.8154	0.8385	0.8615	0.8846
0.9077	0.9308	0.9538	0.9769	1.0000

Transect Channel-overflow2a
Area:

0.0031	0.0061	0.0092	0.0122	0.0153
0.0183	0.0214	0.0244	0.0277	0.0319
0.0370	0.0432	0.0503	0.0584	0.0675
0.0775	0.0885	0.1005	0.1135	0.1275
0.1424	0.1583	0.1752	0.1930	0.2119
0.2317	0.2525	0.2742	0.2970	0.3207
0.3454	0.3710	0.3977	0.4253	0.4539
0.4835	0.5140	0.5455	0.5780	0.6115
0.6460	0.6814	0.7178	0.7552	0.7936
0.8329	0.8732	0.9145	0.9568	1.0000

Hrad:

0.0716	0.1409	0.2081	0.2733	0.3366

```
            0.3980     0.4577     0.5156     0.5711     0.6060
            0.6239     0.6314     0.6333     0.6326     0.6314
            0.6305     0.6306     0.6318     0.6343     0.6381
            0.6429     0.6489     0.6558     0.6635     0.6720
            0.6812     0.6910     0.7014     0.7122     0.7235
            0.7352     0.7473     0.7597     0.7724     0.7853
            0.7985     0.8119     0.8256     0.8394     0.8533
            0.8675     0.8817     0.8961     0.9107     0.9253
            0.9401     0.9549     0.9699     0.9849     1.0000
Width:
            0.0698     0.0698     0.0698     0.0698     0.0698
            0.0698     0.0698     0.0698     0.0847     0.1070
            0.1293     0.1516     0.1740     0.1963     0.2186
            0.2409     0.2633     0.2856     0.3079     0.3302
            0.3526     0.3749     0.3972     0.4195     0.4419
            0.4642     0.4865     0.5088     0.5312     0.5535
            0.5758     0.5981     0.6205     0.6428     0.6651
            0.6874     0.7098     0.7321     0.7544     0.7767
            0.7991     0.8214     0.8437     0.8660     0.8884
            0.9107     0.9330     0.9553     0.9777     1.0000


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......       747.104         1.688
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........       689.337         1.557
Surface Runoff ...........        56.456         0.128
Final Surface Storage ....         1.825         0.004
Continuity Error (%) .....        -0.069


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      10^6 gal
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......        56.456        18.397
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........        56.636        18.456
Internal Outflow .........         0.000         0.000
Storage Losses ...........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         0.005         0.002
Continuity Error (%) .....        -0.327


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


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :     5.00 sec
Average Time Step           :     5.00 sec
Maximum Time Step           :     5.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.00


  ***************************
  Subcatchment Runoff Summary
  ***************************

  ---------------------------------------------------------------------------------------------------
----------
                              Total      Total      Total      Total      Total       Total
Peak  Runoff
                             Precip      Runon       Evap      Infil     Runoff      Runoff
Runoff   Coeff
  Subcatchment                 in         in         in         in         in    10^6 gal
CFS
  ---------------------------------------------------------------------------------------------------
----------
  SP17                       1.69       0.00       0.00       0.31       1.32        0.11
10.36   0.783
  SP02                       1.69       0.00       0.00       0.04       1.58        0.14
12.96   0.934
  SP03                       1.69       0.00       0.00       0.04       1.57        0.14
13.38   0.932
  SP08                       1.69       0.00       0.00       0.04       1.57        0.07
6.84   0.932
  SP07                       1.69       0.00       0.00       0.08       1.54        0.14
13.39   0.911
  SP06                       1.69       0.00       0.00       0.06       1.56        0.03
3.14   0.923
  SP15                       1.69       0.00       0.00       0.20       1.43        0.03
2.65   0.846
  SP16                       1.69       0.00       0.00       0.11       1.52        0.02
1.51   0.898
  SP18                       1.69       0.00       0.00       0.56       1.09        0.12
10.64   0.644
  SP19                       1.69       0.00       0.00       0.63       1.01        0.23
20.93   0.601
  SP04                       1.69       0.00       0.00       0.04       1.57        0.14
13.25   0.932
  SP05                       1.69       0.00       0.00       0.09       1.53        0.11
9.90   0.908
  SP01                       1.69       0.00       0.00       0.04       1.57        0.06
5.87   0.931
  SP10                       1.69       0.00       0.00       0.12       1.50        0.06
5.82   0.891
  SP09                       1.69       0.00       0.00       0.11       1.52        0.10
9.99   0.899
  SP23                       1.69       0.00       0.00       0.62       1.02        0.41
36.90   0.605
  SP24                       1.69       0.00       0.00       1.30       0.39        0.34
18.85   0.229
  SP20                       1.69       0.00       0.00       0.53       1.11        0.30
27.11   0.657
  SP22                       1.69       0.00       0.00       1.34       0.34        0.22
12.71   0.201
  SP25                       1.69       0.00       0.00       1.60       0.09       11.99
551.60   0.052
  SP13                       1.69       0.00       0.00       1.03       0.63        0.64
50.83   0.375
  SP11                       1.69       0.00       0.00       0.83       0.83        0.47
38.70   0.490
  SP28                       1.69       0.00       0.00       1.03       0.64        0.37
28.50   0.380
```

SP26	1.69	0.00	0.00	1.07	0.61	1.15	81.72	0.359
SP27	1.69	0.00	0.00	0.88	0.78	0.72	59.28	0.461
SP21	1.69	0.00	0.00	0.94	0.73	0.06	4.21	0.434
SP14	1.69	0.00	0.00	0.39	1.24	0.19	17.40	0.735
SP12	1.69	0.00	0.00	0.82	0.85	0.04	3.44	0.503

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days hr:min
J-SP04	JUNCTION	0.02	0.63	6710.63	0 00:36
J-SP05	JUNCTION	0.03	0.65	6728.65	0 00:35
J-SP06	JUNCTION	0.02	0.43	6729.43	0 00:35
J-SP07	JUNCTION	0.05	1.15	6730.15	0 00:37
J-SP03	JUNCTION	0.05	1.15	6718.15	0 00:38
J-SP08	JUNCTION	0.05	1.19	6731.19	0 00:37
J-SP09	JUNCTION	0.04	1.01	6733.01	0 00:35
J-SP25	JUNCTION	0.09	1.91	6829.91	0 00:35
J-SP24	JUNCTION	0.03	0.55	6840.55	0 00:40
J-SP23	JUNCTION	0.03	0.68	6816.68	0 00:35
J-SP11	JUNCTION	0.06	1.72	6734.22	0 00:35
J-SP18	JUNCTION	0.07	0.83	6752.83	0 00:35
J-SP19	JUNCTION	0.04	0.85	6770.85	0 00:35
J-SP16	JUNCTION	0.01	0.30	6748.30	0 00:35
J-SP17	JUNCTION	0.05	1.08	6737.08	0 00:35
J-SP13	JUNCTION	0.00	0.00	6742.00	0 00:00
J-SP14	JUNCTION	0.21	3.44	6745.44	0 00:48
J-SP02	JUNCTION	0.05	1.18	6717.18	0 00:38
J-SP01	JUNCTION	0.15	2.46	6720.46	0 01:09
J-SP22	JUNCTION	0.21	3.44	6753.44	0 00:47
J-SP20	JUNCTION	0.00	0.00	6754.00	0 00:00
J-SP26	JUNCTION	0.09	1.90	6828.90	0 00:35
J-SP28	JUNCTION	0.03	0.78	6986.78	0 00:35
J-SP15	JUNCTION	0.04	0.91	6748.91	0 00:36
J-SP21	JUNCTION	0.04	1.19	6755.19	0 00:35
J-SP27	JUNCTION	0.16	3.15	6829.15	0 00:35
J-SP12	JUNCTION	0.06	1.67	6733.67	0 00:37
J1	JUNCTION	0.18	3.59	6823.59	0 00:35
J2	JUNCTION	0.20	3.64	6799.64	0 00:38
J3	JUNCTION	0.20	3.51	6773.51	0 00:43
J5	JUNCTION	0.20	3.55	6708.55	0 00:52
J7	JUNCTION	0.19	3.49	6718.49	0 00:51
J6	JUNCTION	0.19	3.51	6713.51	0 00:52
J4	JUNCTION	0.05	1.37	6721.37	0 00:37
J9	OUTFALL	0.19	3.55	6703.55	0 00:53
J-SP10	DIVIDER	0.19	3.16	6727.16	0 00:49

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal
J-SP04	JUNCTION	13.25	23.40	0 00:36	0.140	0.279
J-SP05	JUNCTION	9.90	9.90	0 00:35	0.107	0.107
J-SP06	JUNCTION	3.14	3.14	0 00:35	0.032	0.032
J-SP07	JUNCTION	13.39	31.22	0 00:37	0.142	0.384
J-SP03	JUNCTION	13.38	41.21	0 00:37	0.142	0.526
J-SP08	JUNCTION	6.84	36.50	0 00:37	0.070	0.434
J-SP09	JUNCTION	9.99	9.99	0 00:35	0.102	0.102
J-SP25	JUNCTION	551.60	551.60	0 00:35	11.988	11.988
J-SP24	JUNCTION	18.85	18.85	0 00:40	0.336	0.336
J-SP23	JUNCTION	36.90	36.90	0 00:35	0.414	0.414
J-SP11	JUNCTION	38.70	38.70	0 00:35	0.470	0.470
J-SP18	JUNCTION	10.64	10.64	0 00:35	0.117	0.117
J-SP19	JUNCTION	20.93	20.93	0 00:35	0.235	0.235
J-SP16	JUNCTION	1.51	1.51	0 00:35	0.015	0.015
J-SP17	JUNCTION	10.36	19.81	0 00:35	0.109	0.226
J-SP13	JUNCTION	50.83	50.83	0 00:35	0.640	0.640
J-SP14	JUNCTION	17.40	655.97	0 00:48	0.186	16.429
J-SP02	JUNCTION	12.96	45.80	0 00:38	0.137	0.571
J-SP01	JUNCTION	5.87	652.80	0 00:51	0.060	16.562
J-SP22	JUNCTION	12.71	629.60	0 00:47	0.222	15.603
J-SP20	JUNCTION	27.11	27.11	0 00:35	0.297	0.297
J-SP26	JUNCTION	81.72	648.77	0 00:35	1.153	13.517
J-SP28	JUNCTION	28.50	28.50	0 00:35	0.373	0.373
J-SP15	JUNCTION	2.65	22.50	0 00:36	0.027	0.262
J-SP21	JUNCTION	4.21	31.32	0 00:35	0.056	0.353
J-SP27	JUNCTION	59.28	707.67	0 00:35	0.723	14.240
J-SP12	JUNCTION	3.44	39.60	0 00:37	0.043	0.513
J1	JUNCTION	0.00	717.27	0 00:35	0.000	14.577
J2	JUNCTION	0.00	661.20	0 00:38	0.000	14.582
J3	JUNCTION	0.00	622.18	0 00:43	0.000	15.019
J5	JUNCTION	0.00	706.46	0 00:52	0.000	18.175
J7	JUNCTION	0.00	673.22	0 00:51	0.000	17.076
J6	JUNCTION	0.00	690.80	0 00:52	0.000	17.648
J4	JUNCTION	0.00	39.55	0 00:37	0.000	0.513
J9	OUTFALL	0.00	713.59	0 00:53	0.000	18.454
J-SP10	DIVIDER	5.82	655.85	0 00:49	0.059	16.489

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
J-SP13	JUNCTION	24.00	0.000	0.000
J-SP20	JUNCTION	24.00	0.000	0.000

****
Node Flooding Summary
****

No nodes were flooded.

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume 10^6 gal
J9	44.85	63.67	713.59	18.454
System	44.85	63.67	713.59	18.454

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
C1	CHANNEL	550.80	0 00:35	5.96	0.07	0.32
C2	CHANNEL	648.70	0 00:35	9.22	0.05	0.26
C3	CHANNEL	24.66	0 00:39	4.58	0.01	0.12
C4	CHANNEL	18.82	0 00:40	4.29	0.00	0.09
C5	CHANNEL	702.38	0 00:35	5.09	0.18	0.52
C6	CHANNEL	661.20	0 00:38	4.01	0.24	0.58
C7	CHANNEL	601.86	0 00:43	3.68	0.24	0.58
C8	CHANNEL	608.08	0 00:47	3.69	0.23	0.57
C9	CHANNEL	35.52	0 00:36	6.75	0.01	0.11
C10	DUMMY	27.11	0 00:35			
C11	CHANNEL	628.26	0 00:48	3.72	0.23	0.57
C12	DUMMY	50.83	0 00:35			
C13	CHANNEL	30.68	0 00:35	3.11	0.01	0.20
C14	CHANNEL	654.27	0 00:49	4.69	0.19	0.53
C15	CHANNEL	22.02	0 00:37	3.34	0.02	0.30
C16	CHANNEL	1.20	0 00:40	1.45	0.00	0.09
C17	CHANNEL	19.01	0 00:37	2.26	0.04	0.35
C18	CHANNEL	20.07	0 00:36	3.51	0.02	0.28
C19	CHANNEL	8.94	0 00:37	1.31	0.03	0.32
C20	CHANNEL	36.00	0 00:38	3.43	0.05	0.39
C21	CONDUIT	496.06	0 01:09	22.39	0.49	0.49
C22	CHANNEL	155.33	0 00:51	5.82	0.31	0.81
C23	CHANNEL	9.28	0 00:36	2.64	0.01	0.21
C24	CHANNEL	30.85	0 00:38	3.10	0.04	0.38
C25	CHANNEL	2.61	0 00:39	1.74	0.00	0.13
C26	DUMMY	41.21	0 00:37			
C27	DUMMY	45.80	0 00:38			
C28	CHANNEL	652.80	0 00:51	13.81	0.04	0.23
C29	CHANNEL	672.71	0 00:52	8.80	0.08	0.35
C30	CHANNEL	690.30	0 00:52	8.99	0.08	0.35
C31	CHANNEL	706.08	0 00:53	9.05	0.08	0.35
C32	DUMMY	23.40	0 00:36			
C33	CHANNEL	36.32	0 00:37	1.88	0.03	0.28
C34	CHANNEL	39.55	0 00:37	4.66	0.04	0.25
C35	CHANNEL	38.69	0 00:39	3.00	0.01	0.07
C36	CHANNEL	10.14	0 00:36	2.65	0.00	0.12

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C10	0.01	0.01	0.01	24.00	0.01
C12	0.01	0.01	0.01	24.00	0.01
C26	0.01	0.01	0.01	24.00	0.01
C27	0.01	0.01	0.01	24.00	0.01
C32	0.01	0.01	0.01	24.00	0.01

Analysis begun on: Wed Oct 03 10:02:01 2012
Analysis ended on: Wed Oct 03 10:02:04 2012
Total elapsed time: 00:00:03

EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.022)

Steamboat Springs Stormwater Master Plan - Walton Creek Basin
Urban Drainage CUHP distrubution

****
NOTE: The summary statistics displayed in this report are
based on results found at every computational time step,
not just on results from each reporting time step.
****

****
Analysis Options
****
Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... YES
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... YES
  Water Quality ..... NO
Infiltration Method ..... HORTON
Flow Routing Method ..... KINWAVE
Starting Date JUN-27-2012 00:00:00
Ending Date JUN-28-2012 12:00:00
Antecedent Dry Days 0.0
Report Time Step 00:05:00
Wet Time Step 00:05:00
Dry Time Step 00:05:00
Routing Time Step ..... 300.00 sec

WARNING 04: minimum elevation drop used for Conduit C11

WARNING 04: minimum elevation drop used for Conduit C16

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Element Count
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Number of rain gages 3
Number of subcatchments ... 35
Number of nodes 41
Number of links 40
Number of pollutants 0
Number of land uses 0

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Raingage Summary
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Name	Data Source	Data Type	Recording Interval
rg100	SCS_24h_Type_II_2.8in	INTENSITY	15 min.
UDFCD100	UDFCD100	VOLUME	5 min.
UDFCD5	Timeseries1	VOLUME	5 min.

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Subcatchment Summary
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Name	Area	Width	%Imperv	%Slope	Rain Gage	Outlet
WA15	3406.92	45552.40	2.00	14.3700	UDFCD100	J-WA15
WA31	27278.50	101176.00	2.00	5.4000	UDFCD100	J-WA31
WA01	18.71	2322.22	95.30	0.6200	UDFCD100	J-WA01
WA05	12.72	2695.47	78.00	2.6800	UDFCD100	J-WA05
WA02	43.49	4537.78	60.10	1.8000	UDFCD100	J-WA02
WA03	45.75	3567.37	30.30	0.9470	UDFCD100	J-WA03
WA12	8.76	1921.70	59.50	3.5600	UDFCD100	J-WA12
WA13	7.11	1823.63	53.90	3.2800	UDFCD100	J-WA13
WA14	57.23	5102.00	24.50	12.4600	UDFCD100	J-WA14
WA32	17.89	4538.46	13.70	21.2900	UDFCD100	J-WA32
WA30	299.08	11023.20	2.80	29.6000	UDFCD100	J-WA30
WA16	54.61	5206.53	8.50	9.2000	UDFCD100	J-WA16
WA23	11.50	3170.05	11.60	36.9800	UDFCD100	J-WA23
WA25	35.80	5514.88	18.20	26.2700	UDFCD100	J-WA25
WA19	14.24	2377.71	59.30	10.5900	UDFCD100	J-WA19
WA29	19.13	6198.43	19.50	29.0300	UDFCD100	J-WA29
WA28	16.80	5719.34	30.70	30.1500	UDFCD100	J-WA28
WA27	12.78	3302.96	50.50	25.1100	UDFCD100	J-WA27
WA21	16.78	4127.65	50.00	14.4500	UDFCD100	J-WA21
WA24	10.57	4121.55	35.30	22.2300	UDFCD100	J-WA24
WA26	48.57	6142.50	25.80	22.2300	UDFCD100	J-WA26
WA22	45.30	6603.70	20.80	19.4000	UDFCD100	J-WA22
WA08	7.32	2362.12	56.40	3.9400	UDFCD100	J-WA08
WA33	12.69	2059.54	36.00	14.5700	UDFCD100	J-WA33
WA18	29.25	3581.37	48.50	7.0800	UDFCD100	J-WA18
WA10	17.80	3226.46	57.00	7.0800	UDFCD100	J-WA10
WA07	16.33	2615.56	66.80	5.7600	UDFCD100	J-WA07
WA04	16.61	2674.14	77.40	1.7950	UDFCD100	J-WA04
WA20	14.64	3326.78	54.40	11.2600	UDFCD100	J-WA20
WA11	6.58	2256.12	60.30	3.1900	UDFCD100	J-WA11
WA06	9.21	1416.39	75.80	1.6100	UDFCD100	J-WA06
WA17	12.10	2668.69	45.30	5.2100	UDFCD100	J-WA17
WA09	9.27	2846.09	51.90	2.7900	UDFCD100	J-WA09
WA34	5.80	1238.50	50.10	3.2800	UDFCD100	J-WA34
WA35	15.17	1941.14	70.60	5.7600	UDFCD100	J-WA35

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Node Summary
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Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
J-WA02	JUNCTION	6756.00	10.00	0.0	
J-WA05	JUNCTION	6763.00	5.50	0.0	
J-WA20	JUNCTION	6845.00	5.50	0.0	
J-WA19	JUNCTION	6844.00	7.00	0.0	
J-WA10	JUNCTION	6791.00	7.00	0.0	
J-WA11	JUNCTION	6786.00	6.00	0.0	
J-WA18	JUNCTION	6818.00	6.00	0.0	
J-WA12	JUNCTION	6795.00	7.00	0.0	
J7	JUNCTION	6760.00	10.00	0.0	
J-WA34	JUNCTION	6796.00	5.50	0.0	
J-WA17	JUNCTION	6836.00	5.50	0.0	
J-WA14	JUNCTION	6781.00	5.50	0.0	
J-WA03	JUNCTION	6762.00	10.00	0.0	
J-WA16	JUNCTION	6887.00	7.00	0.0	
J-WA25	JUNCTION	6902.00	6.00	0.0	
J-WA24	JUNCTION	6913.00	0.00	0.0	

J-WA33	JUNCTION	6877.00	6.00	0.0
J-WA21	JUNCTION	6908.00	6.00	0.0
J-WA22	JUNCTION	6909.00	6.00	0.0
J-WA27	JUNCTION	6942.00	6.00	0.0
J-WA26	JUNCTION	6949.00	6.00	0.0
J-WA29	JUNCTION	7060.00	5.50	0.0
J-WA30	JUNCTION	7059.00	6.00	0.0
J-WA23	JUNCTION	7102.00	6.00	0.0
J-WA15	JUNCTION	6780.00	10.00	0.0
J-WA28	JUNCTION	7099.00	6.00	0.0
J-WA06	JUNCTION	6787.00	5.50	0.0
J-WA07	JUNCTION	6838.00	5.50	0.0
J-WA08	JUNCTION	6795.00	5.50	0.0
J-WA31	JUNCTION	7060.00	10.00	0.0
J-WA09	JUNCTION	6795.00	7.00	0.0
J-WA32	JUNCTION	6887.00	7.00	0.0
J1	JUNCTION	6763.00	10.00	0.0
J2	JUNCTION	6758.00	10.00	0.0
J3	JUNCTION	6795.00	7.00	0.0
J4	JUNCTION	6759.00	10.00	0.0
J5	JUNCTION	6860.00	6.00	0.0
J-WA04	JUNCTION	6761.00	10.00	0.0
J-WA13	JUNCTION	6796.00	7.00	0.0
J-WA35	JUNCTION	6797.00	5.50	0.0
J-WA01	OUTFALL	6755.00	10.00	0.0

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Link Summary
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Name	From Node	To Node	Type	Length	%Slope	Roughness
C1	J-WA15	J1	CONDUIT	1528.5	1.1123	0.0350
C2	J1	J-WA03	CONDUIT	1717.9	0.0582	0.0350
C3	J-WA14	J1	CONDUIT	785.2	2.2931	0.0375
C5	J-WA02	J-WA01	CONDUIT	888.8	0.1125	0.0350
C6	J2	J-WA02	CONDUIT	1053.0	0.1899	0.0350
C7	J-WA06	J-WA05	CONDUIT	497.0	4.8350	0.0375
C8	J-WA05	J2	CONDUIT	166.6	3.0035	0.0375
C9	J7	J4	CONDUIT	474.3	0.2108	0.0350
C10	J3	J7	CONDUIT	1371.2	2.5534	0.0187
C11	J-WA12	J3	CONDUIT	64.6	0.0015	0.0187
C12	J-WA11	J-WA04	CONDUIT	1232.5	2.0288	0.0375
C13	J-WA34	J-WA14	CONDUIT	777.9	1.9287	0.0375
C14	J-WA31	J-WA15	CONDUIT	18352.7	1.5258	0.0350
C15	J-WA17	J-WA34	CONDUIT	655.1	6.1176	0.0375
C16	J-WA32	J-WA16	CONDUIT	32.0	0.0031	0.0187
C17	J-WA16	J-WA17	CONDUIT	1096.8	4.6551	0.0375
C18	J-WA10	J4	CONDUIT	942.5	3.3972	0.0375
C19	J4	J2	CONDUIT	423.9	0.2359	0.0350
C21	J-WA08	J-WA05	CONDUIT	1191.1	2.6877	0.0375
C22	J-WA35	J-WA06	CONDUIT	733.5	1.3635	0.0375
C23	J-WA20	J-WA08	CONDUIT	1248.0	4.0095	0.0375
C24	J-WA19	J-WA10	CONDUIT	1651.2	3.2114	0.0187
C25	J-WA18	J-WA11	CONDUIT	985.5	3.2489	0.0375
C26	J-WA25	J5	CONDUIT	402.0	10.5047	0.0375
C28	J5	J-WA18	CONDUIT	953.3	4.4099	0.0375
C29	J-WA33	J5	CONDUIT	486.4	3.4975	0.0375
C30	J-WA22	J-WA21	CONDUIT	72.6	1.3770	0.0375
C31	J-WA21	J-WA33	CONDUIT	459.5	6.7619	0.0375
C32	J-WA27	J-WA22	CONDUIT	449.6	7.3597	0.0375
C33	J-WA26	J-WA27	CONDUIT	105.7	6.6352	0.0375
C34	J-WA28	J-WA27	CONDUIT	1033.4	15.3715	0.0375
C35	J-WA29	J-WA30	CONDUIT	45.6	2.1945	0.0375
C36	J-WA30	J-WA26	CONDUIT	1049.2	10.5423	0.0375
C37	J-WA23	J-WA25	CONDUIT	1601.9	12.5835	0.0375
C27	J-WA24	J-WA25	CONDUIT	13.9	129.9485	0.0100
C4	J-WA03	J7	CONDUIT	260.8	0.7668	0.0350
C39	J-WA04	J7	CONDUIT	27.8	3.6020	0.0350
C40	J-WA13	J3	CONDUIT	501.3	0.1995	0.0187
C41	J-WA09	J-WA10	CONDUIT	295.9	1.3521	0.0187
C42	J-WA07	J-WA35	CONDUIT	1159.2	3.5391	0.0375

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Cross Section Summary
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Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
C1	largeriver	10.00	824.00	3.15	152.00	1	7921.83
C2	largeriver	10.00	824.00	3.15	152.00	1	1812.27
C3	channel-main3rd	5.50	166.00	2.46	52.00	1	1814.94
C5	largeriver	10.00	824.00	3.15	152.00	1	2519.53
C6	largeriver	10.00	824.00	3.15	152.00	1	3273.53
C7	channel-main1st	5.50	122.00	1.60	44.00	1	1454.56
C8	channel-main3rd	5.50	166.00	2.46	52.00	1	2077.11
C9	largeriver	10.00	824.00	3.15	152.00	1	3448.96
C10	street-main	7.00	329.94	2.45	72.50	1	7597.02
C11	street-main	7.00	329.94	2.45	72.50	1	187.11
C12	channel-overflow3r	6.00	740.00	1.44	240.00	1	5330.98
C13	channel-main2nd	5.50	144.00	2.08	48.00	1	1290.07
C14	largeriver	10.00	824.00	3.15	152.00	1	9278.40
C15	channel-main2nd	5.50	144.00	2.08	48.00	1	2297.62
C16	street-main	7.00	329.94	2.45	72.50	1	265.73
C17	channel-main2nd	5.50	144.00	2.08	48.00	1	2004.24
C18	channel-overflow3r	6.00	740.00	1.44	240.00	1	6898.39
C19	largeriver	10.00	824.00	3.15	152.00	1	3648.24
C21	channel-main2nd	5.50	144.00	2.08	48.00	1	1522.91
C22	channel-main1st	5.50	122.00	1.60	44.00	1	772.43
C23	channel-main1st	5.50	122.00	1.60	44.00	1	1324.58
C24	street-main	7.00	329.94	2.45	72.50	1	8519.83
C25	channel-overflow3r	6.00	740.00	1.44	240.00	1	6746.11
C26	channel-main1st	5.50	122.00	1.60	44.00	1	2144.00
C28	channel-main3rd	5.50	166.00	2.46	52.00	1	2516.89
C29	channel-overflow2n	6.00	590.00	1.65	215.00	1	6101.41
C30	channel-overflow2n	6.00	590.00	1.65	215.00	1	3828.37
C31	channel-overflow2n	6.00	590.00	1.65	215.00	1	8483.70
C32	channel-overflow2n	6.00	590.00	1.65	215.00	1	8850.79
C33	channel-overflow2n	6.00	590.00	1.65	215.00	1	8403.86
C34	channel-overflow1s	6.00	548.00	1.40	208.00	1	10671.52
C35	channel-main1st	5.50	122.00	1.60	44.00	1	979.93
C36	channel-overflow2n	6.00	590.00	1.65	215.00	1	10593.00
C37	channel-overflow1s	6.00	548.00	1.40	208.00	1	9655.38
C27	DUMMY	0.00	0.00	0.00	0.00	1	0.00
C4	largeriver	10.00	824.00	3.15	152.00	1	6577.51
C39	largeriver	10.00	824.00	3.15	152.00	1	14255.87
C40	street-main	7.00	329.94	2.45	72.50	1	2123.43
C41	street-main	7.00	329.94	2.45	72.50	1	5528.16
C42	channel-main1st	5.50	122.00	1.60	44.00	1	1244.45

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Transect Summary
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Transect channel-main1st
Area:

0.0036	0.0072	0.0108	0.0144	0.0181
0.0225	0.0276	0.0336	0.0403	0.0479
0.0562	0.0653	0.0752	0.0860	0.0975
0.1098	0.1228	0.1367	0.1514	0.1669
0.1832	0.2002	0.2181	0.2367	0.2561
0.2764	0.2974	0.3192	0.3418	0.3652
0.3894	0.4144	0.4402	0.4668	0.4942
0.5223	0.5513	0.5811	0.6116	0.6430
0.6751	0.7080	0.7417	0.7762	0.8116
0.8477	0.8846	0.9222	0.9607	1.0000

Hrad:

0.0649	0.1233	0.1763	0.2244	0.2721
0.3133	0.3449	0.3701	0.3912	0.4097
0.4266	0.4424	0.4575	0.4722	0.4866
0.5009	0.5152	0.5294	0.5435	0.5577
0.5720	0.5863	0.6006	0.6149	0.6293
0.6438	0.6583	0.6728	0.6874	0.7020
0.7167	0.7314	0.7461	0.7608	0.7756
0.7904	0.8053	0.8201	0.8350	0.8499
0.8649	0.8798	0.8948	0.9098	0.9248
0.9398	0.9548	0.9699	0.9849	1.0000

Width:

0.0909	0.0909	0.0909	0.0909	0.1000
0.1200	0.1400	0.1600	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect channel-main2nd
Area:

0.0061	0.0122	0.0183	0.0244	0.0306
0.0374	0.0448	0.0529	0.0617	0.0711
0.0812	0.0920	0.1035	0.1156	0.1284
0.1419	0.1560	0.1708	0.1863	0.2025
0.2193	0.2368	0.2550	0.2739	0.2934
0.3136	0.3345	0.3560	0.3782	0.4011
0.4247	0.4489	0.4738	0.4994	0.5256
0.5525	0.5801	0.6084	0.6373	0.6669
0.6972	0.7282	0.7598	0.7921	0.8251
0.8587	0.8930	0.9280	0.9637	1.0000

Hrad:

0.0513	0.1000	0.1462	0.1901	0.2337
0.2746	0.3105	0.3427	0.3717	0.3983
0.4229	0.4458	0.4673	0.4876	0.5070
0.5256	0.5434	0.5607	0.5774	0.5937
0.6095	0.6251	0.6403	0.6552	0.6699
0.6844	0.6987	0.7128	0.7267	0.7406
0.7542	0.7678	0.7813	0.7946	0.8079
0.8211	0.8342	0.8473	0.8603	0.8732
0.8861	0.8989	0.9116	0.9244	0.9371
0.9497	0.9623	0.9749	0.9875	1.0000

Width:

0.1667	0.1667	0.1667	0.1667	0.1750
0.1933	0.2117	0.2300	0.2483	0.2667
0.2850	0.3033	0.3217	0.3400	0.3583
0.3767	0.3950	0.4133	0.4317	0.4500
0.4683	0.4867	0.5050	0.5233	0.5417
0.5600	0.5783	0.5967	0.6150	0.6333
0.6517	0.6700	0.6883	0.7067	0.7250
0.7433	0.7617	0.7800	0.7983	0.8167
0.8350	0.8533	0.8717	0.8900	0.9083
0.9267	0.9450	0.9633	0.9817	1.0000

Transect channel-main3rd
Area:

0.0080	0.0159	0.0239	0.0318	0.0398
0.0483	0.0574	0.0671	0.0774	0.0882
0.0996	0.1116	0.1242	0.1374	0.1511
0.1655	0.1804	0.1959	0.2120	0.2287
0.2459	0.2638	0.2822	0.3012	0.3208
0.3410	0.3617	0.3830	0.4050	0.4275
0.4506	0.4742	0.4985	0.5233	0.5487
0.5747	0.6013	0.6285	0.6562	0.6846
0.7135	0.7430	0.7731	0.8037	0.8350
0.8668	0.8993	0.9323	0.9658	1.0000

Hrad:

0.0437	0.0859	0.1267	0.1660	0.2052
0.2427	0.2773	0.3093	0.3392	0.3672
0.3936	0.4186	0.4424	0.4650	0.4867
0.5075	0.5275	0.5469	0.5656	0.5837
0.6013	0.6184	0.6351	0.6514	0.6673
0.6829	0.6982	0.7132	0.7279	0.7424
0.7567	0.7707	0.7846	0.7983	0.8118
0.8252	0.8384	0.8514	0.8644	0.8772
0.8899	0.9025	0.9150	0.9274	0.9397
0.9519	0.9640	0.9761	0.9881	1.0000

Width:

0.2308	0.2308	0.2308	0.2308	0.2385
0.2554	0.2723	0.2892	0.3062	0.3231
0.3400	0.3569	0.3738	0.3908	0.4077
0.4246	0.4415	0.4585	0.4754	0.4923
0.5092	0.5262	0.5431	0.5600	0.5769
0.5938	0.6108	0.6277	0.6446	0.6615
0.6785	0.6954	0.7123	0.7292	0.7462
0.7631	0.7800	0.7969	0.8138	0.8308
0.8477	0.8646	0.8815	0.8985	0.9154
0.9323	0.9492	0.9662	0.9831	1.0000

Transect channel-overflow1s
Area:

0.0018	0.0035	0.0053	0.0070	0.0088
0.0105	0.0123	0.0140	0.0160	0.0190
0.0230	0.0281	0.0342	0.0414	0.0496
0.0589	0.0693	0.0806	0.0931	0.1066
0.1211	0.1367	0.1533	0.1710	0.1898
0.2096	0.2304	0.2523	0.2753	0.2993
0.3243	0.3504	0.3776	0.4058	0.4350
0.4653	0.4967	0.5291	0.5626	0.5971
0.6326	0.6693	0.7069	0.7456	0.7854
0.8262	0.8681	0.9110	0.9550	1.0000

Hrad:

0.0827	0.1607	0.2344	0.3042	0.3703
0.4331	0.4927	0.5495	0.6009	0.6143
0.6032	0.5833	0.5633	0.5469	0.5350
0.5276	0.5242	0.5241	0.5269	0.5320
0.5390	0.5476	0.5576	0.5687	0.5807
0.5936	0.6072	0.6213	0.6360	0.6511
0.6667	0.6825	0.6987	0.7152	0.7319

0.7488	0.7659	0.7832	0.8007	0.8183
0.8360	0.8539	0.8718	0.8899	0.9080
0.9263	0.9446	0.9630	0.9815	1.0000

Width:

0.0385	0.0385	0.0385	0.0385	0.0385
0.0385	0.0385	0.0385	0.0538	0.0769
0.1000	0.1231	0.1462	0.1692	0.1923
0.2154	0.2385	0.2615	0.2846	0.3077
0.3308	0.3538	0.3769	0.4000	0.4231
0.4462	0.4692	0.4923	0.5154	0.5385
0.5615	0.5846	0.6077	0.6308	0.6538
0.6769	0.7000	0.7231	0.7462	0.7692
0.7923	0.8154	0.8385	0.8615	0.8846
0.9077	0.9308	0.9538	0.9769	1.0000

Transect channel-overflow2n

Area:

0.0031	0.0061	0.0092	0.0122	0.0153
0.0183	0.0214	0.0244	0.0277	0.0319
0.0370	0.0432	0.0503	0.0584	0.0675
0.0775	0.0885	0.1005	0.1135	0.1275
0.1424	0.1583	0.1752	0.1930	0.2119
0.2317	0.2525	0.2742	0.2970	0.3207
0.3454	0.3710	0.3977	0.4253	0.4539
0.4835	0.5140	0.5455	0.5780	0.6115
0.6460	0.6814	0.7178	0.7552	0.7936
0.8329	0.8732	0.9145	0.9568	1.0000

Hrad:

0.0714	0.1405	0.2075	0.2726	0.3357
0.3969	0.4564	0.5142	0.5695	0.6043
0.6222	0.6297	0.6317	0.6311	0.6299
0.6291	0.6292	0.6306	0.6332	0.6369
0.6419	0.6479	0.6548	0.6626	0.6711
0.6804	0.6902	0.7007	0.7116	0.7229
0.7346	0.7467	0.7592	0.7719	0.7849
0.7981	0.8115	0.8252	0.8390	0.8530
0.8672	0.8815	0.8959	0.9105	0.9252
0.9400	0.9548	0.9698	0.9849	1.0000

Width:

0.0698	0.0698	0.0698	0.0698	0.0698
0.0698	0.0698	0.0698	0.0847	0.1070
0.1293	0.1516	0.1740	0.1963	0.2186
0.2409	0.2633	0.2856	0.3079	0.3302
0.3526	0.3749	0.3972	0.4195	0.4419
0.4642	0.4865	0.5088	0.5312	0.5535
0.5758	0.5981	0.6205	0.6428	0.6651
0.6874	0.7098	0.7321	0.7544	0.7767
0.7991	0.8214	0.8437	0.8660	0.8884
0.9107	0.9330	0.9553	0.9777	1.0000

Transect channel-overflow3r

Area:

0.0065	0.0130	0.0195	0.0259	0.0324
0.0389	0.0454	0.0519	0.0586	0.0659
0.0741	0.0831	0.0928	0.1033	0.1146
0.1267	0.1395	0.1531	0.1675	0.1827
0.1987	0.2154	0.2329	0.2512	0.2703
0.2901	0.3107	0.3322	0.3543	0.3773
0.4010	0.4256	0.4509	0.4769	0.5038
0.5314	0.5598	0.5890	0.6190	0.6497
0.6813	0.7136	0.7466	0.7805	0.8151
0.8506	0.8867	0.9237	0.9615	1.0000

Hrad:

0.0383	0.0761	0.1135	0.1505	0.1870
0.2231	0.2588	0.2941	0.3179	0.3344
0.3497	0.3643	0.3785	0.3926	0.4068
0.4211	0.4356	0.4503	0.4652	0.4804
0.4959	0.5115	0.5274	0.5434	0.5596
0.5760	0.5926	0.6093	0.6262	0.6432
0.6603	0.6775	0.6948	0.7123	0.7298
0.7474	0.7650	0.7828	0.8006	0.8185
0.8364	0.8544	0.8724	0.8905	0.9087
0.9269	0.9451	0.9634	0.9817	1.0000

Width:

0.1667	0.1667	0.1667	0.1667	0.1667
0.1667	0.1667	0.1667	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect street-main

Area:

0.0004	0.0014	0.0032	0.0057	0.0089
0.0128	0.0175	0.0248	0.0383	0.0546
0.0713	0.0883	0.1057	0.1235	0.1416
0.1601	0.1789	0.1981	0.2176	0.2375
0.2577	0.2783	0.2993	0.3206	0.3423
0.3643	0.3867	0.4095	0.4326	0.4560
0.4798	0.5040	0.5285	0.5534	0.5786
0.6042	0.6302	0.6565	0.6832	0.7102
0.7376	0.7653	0.7934	0.8218	0.8506
0.8798	0.9093	0.9392	0.9694	1.0000

Hrad:

0.0044	0.0089	0.0133	0.0177	0.0222
0.0266	0.0310	0.0361	0.0464	0.0709
0.0993	0.1293	0.1597	0.1901	0.2203
0.2501	0.2794	0.3083	0.3366	0.3644
0.3917	0.4185	0.4448	0.4705	0.4958
0.5205	0.5448	0.5687	0.5921	0.6150
0.6376	0.6597	0.6815	0.7028	0.7238
0.7444	0.7646	0.7845	0.8041	0.8234
0.8423	0.8610	0.8793	0.8973	0.9151
0.9326	0.9498	0.9668	0.9835	1.0000

Width:

0.0232	0.0463	0.0695	0.0927	0.1159
0.1390	0.1622	0.3377	0.5250	0.5366
0.5481	0.5597	0.5713	0.5829	0.5945
0.6061	0.6177	0.6292	0.6408	0.6524
0.6640	0.6756	0.6872	0.6988	0.7103
0.7219	0.7335	0.7451	0.7567	0.7683
0.7799	0.7914	0.8030	0.8146	0.8262
0.8378	0.8494	0.8610	0.8726	0.8841
0.8957	0.9073	0.9189	0.9305	0.9421
0.9537	0.9652	0.9768	0.9884	1.0000

Transect street-overflow

Area:

0.0013	0.0031	0.0052	0.0078	0.0108
0.0141	0.0179	0.0221	0.0267	0.0317
0.0371	0.0429	0.0492	0.0558	0.0628
0.0703	0.0781	0.0864	0.0951	0.1042

0.1136	0.1235	0.1338	0.1445	0.1557
0.1672	0.1791	0.1915	0.2042	0.2174
0.2309	0.2449	0.2593	0.2750	0.2953
0.3203	0.3501	0.3846	0.4239	0.4679
0.5150	0.5635	0.6133	0.6645	0.7170
0.7709	0.8261	0.8827	0.9407	1.0000

Hrad:

0.0251	0.0454	0.0634	0.0802	0.0963
0.1118	0.1270	0.1420	0.1568	0.1714
0.1860	0.2005	0.2149	0.2292	0.2435
0.2577	0.2720	0.2861	0.3003	0.3145
0.3286	0.3427	0.3568	0.3709	0.3849
0.3990	0.4131	0.4271	0.4411	0.4552
0.4692	0.4832	0.4972	0.4907	0.4752
0.4645	0.4602	0.4631	0.4730	0.4895
0.5265	0.5697	0.6175	0.6683	0.7213
0.7758	0.8313	0.8874	0.9437	1.0000

Width:

0.0257	0.0325	0.0392	0.0460	0.0528
0.0596	0.0664	0.0732	0.0800	0.0868
0.0936	0.1004	0.1072	0.1140	0.1208
0.1275	0.1343	0.1411	0.1479	0.1547
0.1615	0.1683	0.1751	0.1819	0.1887
0.1955	0.2023	0.2091	0.2158	0.2226
0.2294	0.2362	0.2430	0.2981	0.3774
0.4566	0.5358	0.6151	0.6943	0.7736
0.7962	0.8189	0.8415	0.8642	0.8868
0.9094	0.9321	0.9547	0.9774	1.0000

Transect largeriver

Area:

0.0049	0.0097	0.0146	0.0194	0.0243
0.0291	0.0340	0.0388	0.0437	0.0485
0.0535	0.0588	0.0644	0.0703	0.0765
0.0829	0.0897	0.0967	0.1040	0.1117
0.1204	0.1311	0.1437	0.1583	0.1748
0.1932	0.2136	0.2359	0.2602	0.2864
0.3146	0.3447	0.3767	0.4107	0.4466
0.4835	0.5204	0.5573	0.5942	0.6311
0.6680	0.7049	0.7417	0.7786	0.8155
0.8524	0.8893	0.9262	0.9631	1.0000

Hrad:

0.0621	0.1218	0.1792	0.2345	0.2878
0.3392	0.3888	0.4367	0.4829	0.5276
0.5782	0.6249	0.6681	0.7083	0.7458
0.7810	0.8140	0.8452	0.8747	0.9028
0.9102	0.9083	0.8978	0.8815	0.8620
0.8413	0.8209	0.8017	0.7841	0.7686
0.7551	0.7436	0.7341	0.7265	0.7205
0.7291	0.7407	0.7546	0.7704	0.7877
0.8061	0.8255	0.8457	0.8665	0.8879
0.9097	0.9318	0.9543	0.9771	1.0000

Width:

0.1316	0.1316	0.1316	0.1316	0.1316
0.1316	0.1316	0.1316	0.1316	0.1316
0.1395	0.1474	0.1553	0.1632	0.1711
0.1789	0.1868	0.1947	0.2026	0.2105
0.2632	0.3158	0.3684	0.4211	0.4737
0.5263	0.5789	0.6316	0.6842	0.7368
0.7895	0.8421	0.8947	0.9474	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000
1.0000	1.0000	1.0000	1.0000	1.0000

Transect channel-main1a

Area:

0.0036	0.0072	0.0108	0.0144	0.0181
0.0225	0.0276	0.0336	0.0403	0.0479
0.0562	0.0653	0.0752	0.0860	0.0975
0.1098	0.1228	0.1367	0.1514	0.1669
0.1832	0.2002	0.2181	0.2367	0.2561
0.2764	0.2974	0.3192	0.3418	0.3652
0.3894	0.4144	0.4402	0.4668	0.4942
0.5223	0.5513	0.5811	0.6116	0.6430
0.6751	0.7080	0.7417	0.7762	0.8116
0.8477	0.8846	0.9222	0.9607	1.0000

Hrad:

0.0651	0.1237	0.1767	0.2250	0.2728
0.3142	0.3458	0.3710	0.3921	0.4107
0.4275	0.4433	0.4584	0.4731	0.4875
0.5018	0.5160	0.5302	0.5443	0.5585
0.5727	0.5869	0.6012	0.6156	0.6300
0.6444	0.6588	0.6734	0.6879	0.7025
0.7171	0.7318	0.7465	0.7612	0.7760
0.7908	0.8056	0.8204	0.8353	0.8502
0.8651	0.8800	0.8949	0.9099	0.9249
0.9399	0.9549	0.9699	0.9849	1.0000

Width:

0.0909	0.0909	0.0909	0.0909	0.1000
0.1200	0.1400	0.1600	0.1800	0.2000
0.2200	0.2400	0.2600	0.2800	0.3000
0.3200	0.3400	0.3600	0.3800	0.4000
0.4200	0.4400	0.4600	0.4800	0.5000
0.5200	0.5400	0.5600	0.5800	0.6000
0.6200	0.6400	0.6600	0.6800	0.7000
0.7200	0.7400	0.7600	0.7800	0.8000
0.8200	0.8400	0.8600	0.8800	0.9000
0.9200	0.9400	0.9600	0.9800	1.0000

Transect channel-overflow1a

Area:

0.0018	0.0035	0.0053	0.0070	0.0088
0.0105	0.0123	0.0140	0.0160	0.0190
0.0230	0.0281	0.0342	0.0414	0.0496
0.0589	0.0693	0.0806	0.0931	0.1066
0.1211	0.1367	0.1533	0.1710	0.1898
0.2096	0.2304	0.2523	0.2753	0.2993
0.3243	0.3504	0.3776	0.4058	0.4350
0.4653	0.4967	0.5291	0.5626	0.5971
0.6326	0.6693	0.7069	0.7456	0.7854
0.8262	0.8681	0.9110	0.9550	1.0000

Hrad:

0.0830	0.1612	0.2352	0.3052	0.3715
0.4345	0.4943	0.5513	0.6028	0.6163
0.6051	0.5851	0.5650	0.5484	0.5363
0.5288	0.5253	0.5252	0.5278	0.5329
0.5398	0.5484	0.5583	0.5694	0.5814
0.5942	0.6077	0.6219	0.6365	0.6516
0.6671	0.6830	0.6991	0.7155	0.7322
0.7491	0.7662	0.7835	0.8009	0.8185
0.8362	0.8540	0.8720	0.8900	0.9082
0.9264	0.9447	0.9631	0.9815	1.0000

Width:

0.0385	0.0385	0.0385	0.0385	0.0385
0.0385	0.0385	0.0385	0.0538	0.0769
0.1000	0.1231	0.1462	0.1692	0.1923

```
            0.2154     0.2385     0.2615     0.2846     0.3077
            0.3308     0.3538     0.3769     0.4000     0.4231
            0.4462     0.4692     0.4923     0.5154     0.5385
            0.5615     0.5846     0.6077     0.6308     0.6538
            0.6769     0.7000     0.7231     0.7462     0.7692
            0.7923     0.8154     0.8385     0.8615     0.8846
            0.9077     0.9308     0.9538     0.9769     1.0000

Transect Channel-overflow2a
Area:
            0.0031     0.0061     0.0092     0.0122     0.0153
            0.0183     0.0214     0.0244     0.0277     0.0319
            0.0370     0.0432     0.0503     0.0584     0.0675
            0.0775     0.0885     0.1005     0.1135     0.1275
            0.1424     0.1583     0.1752     0.1930     0.2119
            0.2317     0.2525     0.2742     0.2970     0.3207
            0.3454     0.3710     0.3977     0.4253     0.4539
            0.4835     0.5140     0.5455     0.5780     0.6115
            0.6460     0.6814     0.7178     0.7552     0.7936
            0.8329     0.8732     0.9145     0.9568     1.0000
Hrad:
            0.0716     0.1409     0.2081     0.2733     0.3366
            0.3980     0.4577     0.5156     0.5711     0.6060
            0.6239     0.6314     0.6333     0.6326     0.6314
            0.6305     0.6306     0.6318     0.6343     0.6381
            0.6429     0.6489     0.6558     0.6635     0.6720
            0.6812     0.6910     0.7014     0.7122     0.7235
            0.7352     0.7473     0.7597     0.7724     0.7853
            0.7985     0.8119     0.8256     0.8394     0.8533
            0.8675     0.8817     0.8961     0.9107     0.9253
            0.9401     0.9549     0.9699     0.9849     1.0000
Width:
            0.0698     0.0698     0.0698     0.0698     0.0698
            0.0698     0.0698     0.0698     0.0847     0.1070
            0.1293     0.1516     0.1740     0.1963     0.2186
            0.2409     0.2633     0.2856     0.3079     0.3302
            0.3526     0.3749     0.3972     0.4195     0.4419
            0.4642     0.4865     0.5088     0.5312     0.5535
            0.5758     0.5981     0.6205     0.6428     0.6651
            0.6874     0.7098     0.7321     0.7544     0.7767
            0.7991     0.8214     0.8437     0.8660     0.8884
            0.9107     0.9330     0.9553     0.9777     1.0000


**************************        Volume         Depth
Runoff Quantity Continuity     acre-feet        inches
**************************     ---------       -------
Total Precipitation ......      4452.173         1.688
Evaporation Loss .........         0.000         0.000
Infiltration Loss ........      4275.384         1.621
Surface Runoff ...........       171.706         0.065
Final Surface Storage ....         6.642         0.003
Continuity Error (%) .....        -0.035


**************************        Volume        Volume
Flow Routing Continuity        acre-feet      10^6 gal
**************************     ---------     ---------
Dry Weather Inflow .......         0.000         0.000
Wet Weather Inflow .......       171.706        55.953
Groundwater Inflow .......         0.000         0.000
RDII Inflow ..............         0.000         0.000
External Inflow ..........         0.000         0.000
External Outflow .........       191.155        62.291
Internal Outflow .........         0.000         0.000
Storage Losses ...........         0.000         0.000
Initial Stored Volume ....         0.000         0.000
Final Stored Volume ......         0.096         0.031
Continuity Error (%) .....       -11.383


*********************************
Highest Flow Instability Indexes
*********************************
Link C35 (4)
Link C12 (2)
Link C18 (1)
Link C2 (1)
Link C14 (1)


*************************
Routing Time Step Summary
*************************
Minimum Time Step           :   300.00 sec
Average Time Step           :   300.00 sec
Maximum Time Step           :   300.00 sec
Percent in Steady State     :     0.00
Average Iterations per Step :     1.05


***************************
Subcatchment Runoff Summary
***************************

  ---------------------------------------------------------------------------------------------------
----------
                              Total      Total      Total      Total      Total       Total
Peak  Runoff
                             Precip      Runon       Evap      Infil     Runoff      Runoff
Runoff   Coeff
  Subcatchment                 in         in         in         in         in    10^6 gal
CFS
  ---------------------------------------------------------------------------------------------------
----------
  WA15                       1.69       0.00       0.00       1.60       0.09        8.11
301.36   0.052
  WA31                       1.69       0.00       0.00       1.64       0.04       32.42
2303.95   0.026
  WA01                       1.69       0.00       0.00       0.07       1.55        0.79
55.18   0.916
  WA05                       1.69       0.00       0.00       0.31       1.32        0.45
42.00   0.780
  WA02                       1.69       0.00       0.00       0.60       1.04        1.23
102.04   0.616
  WA03                       1.69       0.00       0.00       1.11       0.56        0.69
54.81   0.329
  WA12                       1.69       0.00       0.00       0.59       1.06        0.25
22.64   0.627
  WA13                       1.69       0.00       0.00       0.67       0.98        0.19
16.77   0.581
  WA14                       1.69       0.00       0.00       1.13       0.54        0.84
61.77   0.319
  WA32                       1.69       0.00       0.00       1.24       0.45        0.22
13.73   0.264
```

WA30	1.69	0.00	0.00	1.51	0.18	1.47	65.72	0.107					
WA16	1.69	0.00	0.00	1.39	0.29	0.43	20.55	0.174					
WA23	1.69	0.00	0.00	1.26	0.43	0.13	9.82	0.255					
WA25	1.69	0.00	0.00	1.19	0.49	0.48	28.85	0.292					
WA19	1.69	0.00	0.00	0.58	1.06	0.41	37.00	0.628					
WA29	1.69	0.00	0.00	1.14	0.54	0.28	20.09	0.320					
WA28	1.69	0.00	0.00	0.98	0.70	0.32	22.86	0.412					
WA27	1.69	0.00	0.00	0.70	0.96	0.33	28.54	0.566					
WA21	1.69	0.00	0.00	0.71	0.94	0.43	37.07	0.558					
WA24	1.69	0.00	0.00	0.91	0.76	0.22	16.53	0.449					
WA26	1.69	0.00	0.00	1.08	0.59	0.78	55.40	0.349					
WA22	1.69	0.00	0.00	1.16	0.52	0.64	41.69	0.308					
WA08	1.69	0.00	0.00	0.62	1.02	0.20	18.15	0.606					
WA33	1.69	0.00	0.00	0.93	0.74	0.25	20.17	0.436					
WA18	1.69	0.00	0.00	0.76	0.89	0.71	61.53	0.530					
WA10	1.69	0.00	0.00	0.62	1.03	0.50	44.36	0.608					
WA07	1.69	0.00	0.00	0.48	1.16	0.51	46.97	0.688					
WA04	1.69	0.00	0.00	0.33	1.30	0.59	51.70	0.772					
WA20	1.69	0.00	0.00	0.65	1.00	0.40	35.12	0.592					
WA11	1.69	0.00	0.00	0.57	1.08	0.19	17.41	0.638					
WA06	1.69	0.00	0.00	0.35	1.28	0.32	27.74	0.757					
WA17	1.69	0.00	0.00	0.79	0.86	0.28	24.10	0.510					
WA09	1.69	0.00	0.00	0.70	0.96	0.24	21.12	0.566					
WA34	1.69	0.00	0.00	0.73	0.92	0.15	12.66	0.546					
WA35	1.69	0.00	0.00	0.43	1.21	0.50	45.27	0.717					

****
Node Depth Summary
****

Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days	hr:min
J-WA02	JUNCTION	0.59	8.90	6764.90	0	01:15
J-WA05	JUNCTION	0.05	1.75	6764.75	0	00:40
J-WA20	JUNCTION	0.03	1.10	6846.10	0	00:35
J-WA19	JUNCTION	0.08	1.27	6845.27	0	00:35
J-WA10	JUNCTION	0.05	1.19	6792.19	0	00:40
J-WA11	JUNCTION	0.05	1.77	6787.77	0	00:45
J-WA18	JUNCTION	0.05	1.83	6819.83	0	00:40
J-WA12	JUNCTION	0.15	2.80	6797.80	0	00:35
J7	JUNCTION	0.47	7.87	6767.87	0	01:05
J-WA34	JUNCTION	0.04	1.20	6797.20	0	00:40
J-WA17	JUNCTION	0.02	0.78	6836.78	0	00:40
J-WA14	JUNCTION	0.04	1.27	6782.27	0	00:35
J-WA03	JUNCTION	0.58	9.37	6771.37	0	01:05
J-WA16	JUNCTION	0.08	2.08	6889.08	0	00:40
J-WA25	JUNCTION	0.03	1.02	6903.02	0	00:40
J-WA24	JUNCTION	0.00	0.00	6913.00	0	00:00
J-WA33	JUNCTION	0.05	1.60	6878.60	0	00:40
J-WA21	JUNCTION	0.06	1.81	6909.81	0	00:40
J-WA22	JUNCTION	0.06	1.81	6910.81	0	00:40
J-WA27	JUNCTION	0.03	1.02	6943.02	0	00:40
J-WA26	JUNCTION	0.03	0.84	6949.84	0	00:40
J-WA29	JUNCTION	0.02	0.97	7060.97	0	00:40
J-WA30	JUNCTION	0.03	0.97	7059.97	0	00:40
J-WA23	JUNCTION	0.01	0.24	7102.24	0	00:40
J-WA15	JUNCTION	0.27	5.60	6785.60	0	00:50
J-WA28	JUNCTION	0.02	0.38	7099.38	0	00:35
J-WA06	JUNCTION	0.06	2.09	6789.09	0	00:40
J-WA07	JUNCTION	0.03	1.33	6839.33	0	00:35
J-WA08	JUNCTION	0.03	1.04	6796.04	0	00:40
J-WA31	JUNCTION	0.17	6.08	7066.08	0	00:35
J-WA09	JUNCTION	0.08	1.23	6796.23	0	00:35
J-WA32	JUNCTION	0.12	2.10	6889.10	0	00:40
J1	JUNCTION	0.56	9.69	6772.69	0	00:50
J2	JUNCTION	0.51	8.12	6766.12	0	01:10
J3	JUNCTION	0.13	2.66	6797.66	0	00:40
J4	JUNCTION	0.48	7.86	6766.86	0	01:10
J5	JUNCTION	0.05	1.85	6861.85	0	00:40
J-WA04	JUNCTION	0.06	1.73	6762.73	0	00:50
J-WA13	JUNCTION	0.09	1.36	6797.36	0	00:35
J-WA35	JUNCTION	0.06	2.11	6799.11	0	00:35
J-WA01	OUTFALL	0.59	8.86	6763.86	0	01:20

****
Node Inflow Summary
****

Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days	hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal
J-WA02	JUNCTION	102.04	1837.77	0	01:15	1.228	61.492
J-WA05	JUNCTION	42.00	171.12	0	00:40	0.454	2.390
J-WA20	JUNCTION	35.12	35.12	0	00:35	0.397	0.397
J-WA19	JUNCTION	37.00	37.00	0	00:35	0.410	0.410
J-WA10	JUNCTION	44.36	77.11	0	00:35	0.496	1.150
J-WA11	JUNCTION	17.41	322.90	0	00:45	0.192	6.250
J-WA18	JUNCTION	61.53	325.50	0	00:40	0.710	6.053
J-WA12	JUNCTION	22.64	22.64	0	00:35	0.252	0.252
J7	JUNCTION	0.00	1771.44	0	01:05	0.000	56.706
J-WA34	JUNCTION	12.66	58.28	0	00:40	0.145	1.080
J-WA17	JUNCTION	24.10	48.05	0	00:40	0.283	0.935
J-WA14	JUNCTION	61.77	105.14	0	00:35	0.836	1.917

J-WA03	JUNCTION	54.81	1540.36	0	01:05	0.690	49.407
J-WA16	JUNCTION	20.55	31.68	0	00:40	0.435	0.652
J-WA25	JUNCTION	28.85	49.32	0	00:40	0.479	0.833
J-WA24	JUNCTION	16.53	16.53	0	00:35	0.217	0.217
J-WA33	JUNCTION	20.17	238.31	0	00:40	0.253	4.508
J-WA21	JUNCTION	37.07	219.38	0	00:40	0.430	4.253
J-WA22	JUNCTION	41.69	191.12	0	00:40	0.640	3.824
J-WA27	JUNCTION	28.54	152.78	0	00:40	0.332	3.182
J-WA26	JUNCTION	55.40	107.33	0	00:40	0.776	2.531
J-WA29	JUNCTION	20.09	20.09	0	00:40	0.281	0.281
J-WA30	JUNCTION	65.72	76.34	0	00:50	1.472	1.753
J-WA23	JUNCTION	9.82	9.82	0	00:40	0.134	0.134
J-WA15	JUNCTION	301.36	1600.22	0	00:50	8.110	46.662
J-WA28	JUNCTION	22.86	22.86	0	00:35	0.317	0.317
J-WA06	JUNCTION	27.74	97.95	0	00:40	0.320	1.334
J-WA07	JUNCTION	46.97	46.97	0	00:35	0.515	0.515
J-WA08	JUNCTION	18.15	43.67	0	00:35	0.203	0.601
J-WA31	JUNCTION	2303.95	2303.95	0	00:35	32.422	32.422
J-WA09	JUNCTION	21.12	21.12	0	00:35	0.241	0.241
J-WA32	JUNCTION	13.73	13.73	0	00:40	0.217	0.217
J1	JUNCTION	0.00	1666.38	0	00:50	0.000	48.585
J2	JUNCTION	0.00	1838.72	0	01:10	0.000	60.252
J3	JUNCTION	0.00	33.39	0	00:40	0.000	0.444
J4	JUNCTION	0.00	1787.30	0	01:10	0.000	57.861
J5	JUNCTION	0.00	291.90	0	00:40	0.000	5.342
J-WA04	JUNCTION	51.70	329.66	0	00:50	0.587	6.851
J-WA13	JUNCTION	16.77	16.77	0	00:35	0.190	0.190
J-WA35	JUNCTION	45.27	79.32	0	00:35	0.499	1.014
J-WA01	OUTFALL	55.18	1828.86	0	01:20	0.786	62.286

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
J-WA24	JUNCTION	36.08	0.000	0.000

****
Node Flooding Summary
****

No nodes were flooded.

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume 10^6 gal
J-WA01	99.77	64.25	1828.86	62.286
System	99.77	64.25	1828.86	62.286

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days	hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
C1	CHANNEL	1588.34	0	00:50	9.36	0.20	0.56
C2	CHANNEL	1525.89	0	01:05	2.73	0.84	0.93
C3	CHANNEL	108.12	0	00:40	6.16	0.06	0.23
C5	CHANNEL	1819.73	0	01:20	3.20	0.72	0.89
C6	CHANNEL	1821.20	0	01:15	3.98	0.56	0.81
C7	CHANNEL	99.02	0	00:40	7.54	0.07	0.32
C8	CHANNEL	172.48	0	00:40	7.54	0.08	0.28
C9	CHANNEL	1763.06	0	01:10	4.02	0.51	0.79
C10	CHANNEL	28.44	0	00:45	3.04	0.00	0.17
C11	CHANNEL	19.76	0	00:40	0.30	0.11	0.38
C12	CHANNEL	311.61	0	00:50	4.05	0.06	0.29
C13	CHANNEL	58.95	0	00:40	5.09	0.05	0.22
C14	CHANNEL	1360.53	0	00:45	13.05	0.15	0.46
C15	CHANNEL	49.97	0	00:40	7.54	0.02	0.14
C16	CHANNEL	13.36	0	00:40	0.29	0.05	0.30
C17	CHANNEL	31.90	0	00:40	5.91	0.02	0.12
C18	CHANNEL	76.42	0	00:40	3.17	0.01	0.10
C19	CHANNEL	1795.05	0	01:10	4.23	0.49	0.78
C21	CHANNEL	44.32	0	00:40	5.59	0.03	0.17
C22	CHANNEL	78.05	0	00:40	4.52	0.10	0.37
C23	CHANNEL	31.24	0	00:40	6.57	0.02	0.19
C24	CHANNEL	28.76	0	00:40	3.42	0.00	0.17
C25	CHANNEL	315.45	0	00:45	4.86	0.05	0.25
C26	CHANNEL	50.82	0	00:40	9.65	0.02	0.19
C28	CHANNEL	285.14	0	00:40	9.89	0.11	0.34
C29	CHANNEL	241.07	0	00:40	7.79	0.04	0.27
C30	CHANNEL	193.22	0	00:40	4.79	0.05	0.30
C31	CHANNEL	223.90	0	00:40	10.55	0.03	0.22
C32	CHANNEL	156.21	0	00:40	10.08	0.02	0.17
C33	CHANNEL	108.09	0	00:40	8.51	0.01	0.14
C34	CHANNEL	23.65	0	00:40	7.84	0.00	0.06
C35	CHANNEL	20.07	0	00:40	4.20	0.02	0.18
C36	CHANNEL	76.48	0	00:55	8.62	0.01	0.10
C37	CHANNEL	9.54	0	00:45	5.24	0.00	0.04
C27	DUMMY	16.53	0	00:35			
C4	CHANNEL	1537.66	0	01:10	7.53	0.23	0.59
C39	CHANNEL	329.88	0	00:50	10.09	0.02	0.16
C40	CHANNEL	13.63	0	00:40	0.93	0.01	0.19
C41	CHANNEL	17.85	0	00:40	2.07	0.00	0.17
C42	CHANNEL	41.32	0	00:40	6.57	0.03	0.22

****
Conduit Surcharge Summary
****

Conduit	Hours Full Both Ends	Hours Full Upstream	Hours Full Dnstream	Hours Above Full Normal Flow	Hours Capacity Limited
C27	0.01	0.01	0.01	36.08	0.01

```
Analysis begun on:  Wed Oct 03 09:44:28 2012
Analysis ended on:  Wed Oct 03 09:44:28 2012
Total elapsed time: < 1 sec
```

CulvertMaster OUTPUT

Culvert Calculator Report
12" RCP

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	3.50 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	3.50 ft	Discharge	4.15 cfs
Inlet Control HW Elev.	3.50 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	3.48 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	0.69 ft
Slope Type	Steep	Normal Depth	0.69 ft
Flow Regime	Supercritical	Critical Depth	0.86 ft
Velocity Downstream	7.17 ft/s	Critical Slope	0.012584 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	1.00 ft
Section Size	12 inch	Rise	1.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	3.48 ft	Upstream Velocity Head	0.52 ft
Ke	0.20	Entrance Loss	0.10 ft

Inlet Control Properties			
Inlet Control HW Elev.	3.50 ft	Flow Control	Submerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	0.8 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

Culvert Calculator Report
15" RCP

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	3.88 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	3.87 ft	Discharge	7.26 cfs
Inlet Control HW Elev.	3.87 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	3.85 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	0.84 ft
Slope Type	Steep	Normal Depth	0.84 ft
Flow Regime	Supercritical	Critical Depth	1.08 ft
Velocity Downstream	8.26 ft/s	Critical Slope	0.011681 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	1.25 ft
Section Size	15 inch	Rise	1.25 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	3.85 ft	Upstream Velocity Head	0.65 ft
Ke	0.20	Entrance Loss	0.13 ft

Inlet Control Properties			
Inlet Control HW Elev.	3.87 ft	Flow Control	Submerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	1.2 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

Culvert Calculator Report
18" RCP

Comments: Max. Allowable HW = 1.5 ft*1.5 + 2ft (invert upstream) = 4.25 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	4.25 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	4.25 ft	Discharge	11.45 cfs
Inlet Control HW Elev.	4.25 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	4.22 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	0.99 ft
Slope Type	Steep	Normal Depth	0.99 ft
Flow Regime	Supercritical	Critical Depth	1.29 ft
Velocity Downstream	9.27 ft/s	Critical Slope	0.010992 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	1.50 ft
Section Size	18 inch	Rise	1.50 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	4.22 ft	Upstream Velocity Head	0.78 ft
Ke	0.20	Entrance Loss	0.16 ft

Inlet Control Properties			
Inlet Control HW Elev.	4.25 ft	Flow Control	Submerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	1.8 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

Culvert Calculator Report
24" RCP

Comments: Max. Allowable HW = 2 ft*1.5 + 2 ft (invert upstream) = 5 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	5.00 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	5.00 ft	Discharge	23.50 cfs
Inlet Control HW Elev.	5.00 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	4.97 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	1.30 ft
Slope Type	Steep	Normal Depth	1.27 ft
Flow Regime	Supercritical	Critical Depth	1.72 ft
Velocity Downstream	10.89 ft/s	Critical Slope	0.009987 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	2.00 ft
Section Size	24 inch	Rise	2.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	4.97 ft	Upstream Velocity Head	1.04 ft
Ke	0.20	Entrance Loss	0.21 ft

Inlet Control Properties			
Inlet Control HW Elev.	5.00 ft	Flow Control	Submerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	3.1 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

Culvert Calculator Report
30" RCP

Comments: Max. Allowable HW = 2.5 ft*1.5 + 2 ft (invert upstream) = 5.75 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	5.75 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	5.75 ft	Discharge	41.06 cfs
Inlet Control HW Elev.	5.75 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	5.71 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	1.61 ft
Slope Type	Steep	Normal Depth	1.55 ft
Flow Regime	Supercritical	Critical Depth	2.15 ft
Velocity Downstream	12.25 ft/s	Critical Slope	0.009272 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	2.50 ft
Section Size	30 inch	Rise	2.50 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	5.71 ft	Upstream Velocity Head	1.30 ft
Ke	0.20	Entrance Loss	0.26 ft

Inlet Control Properties			
Inlet Control HW Elev.	5.75 ft	Flow Control	Submerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	4.9 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

Culvert Calculator Report
Triple 30" RCP

Comments: Max. Allowable HW = 2.5 ft*1.5 + 2 ft (invert upstream) = 5.75 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

There is drop structure located 30' upstream from the triple CMPs that is 15' W X 2' D.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	5.75 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	5.75 ft	Discharge	123.17 cfs
Inlet Control HW Elev.	5.75 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	5.71 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	1.61 ft
Slope Type	Steep	Normal Depth	1.55 ft
Flow Regime	Supercritical	Critical Depth	2.15 ft
Velocity Downstream	12.25 ft/s	Critical Slope	0.009272 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	2.50 ft
Section Size	30 inch	Rise	2.50 ft
Number Sections	3		

Outlet Control Properties			
Outlet Control HW Elev.	5.71 ft	Upstream Velocity Head	1.30 ft
Ke	0.20	Entrance Loss	0.26 ft

Inlet Control Properties			
Inlet Control HW Elev.	5.75 ft	Flow Control	Submerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	14.7 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

Culvert Calculator Report
36" RCP

Comments: Max. Allowable HW = 3 ft*1.5 + 2 ft (invert upstream) = 6.5 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	6.50 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	6.50 ft	Discharge	64.77 cfs
Inlet Control HW Elev.	6.50 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	6.45 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	1.94 ft
Slope Type	Steep	Normal Depth	1.83 ft
Flow Regime	Supercritical	Critical Depth	2.58 ft
Velocity Downstream	13.43 ft/s	Critical Slope	0.008725 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	3.00 ft
Section Size	36 inch	Rise	3.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	6.45 ft	Upstream Velocity Head	1.56 ft
Ke	0.20	Entrance Loss	0.31 ft

Inlet Control Properties			
Inlet Control HW Elev.	6.50 ft	Flow Control	Submerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	7.1 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

Culvert Calculator Report
Twin 36" RCP

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	6.50 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	6.50 ft	Discharge	129.53 cfs
Inlet Control HW Elev.	6.50 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	6.45 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	1.94 ft
Slope Type	Steep	Normal Depth	1.83 ft
Flow Regime	Supercritical	Critical Depth	2.58 ft
Velocity Downstream	13.43 ft/s	Critical Slope	0.008725 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	3.00 ft
Section Size	36 inch	Rise	3.00 ft
Number Sections	2		

Outlet Control Properties			
Outlet Control HW Elev.	6.45 ft	Upstream Velocity Head	1.56 ft
Ke	0.20	Entrance Loss	0.31 ft

Inlet Control Properties			
Inlet Control HW Elev.	6.50 ft	Flow Control	Submerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	14.1 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

Culvert Calculator Report
Triple 36" RCP

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	6.50 ft	Headwater Depth/Height	1.50
Computed Headwater Elev:	6.50 ft	Discharge	194.30 cfs
Inlet Control HW Elev.	6.50 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	6.45 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	1.94 ft
Slope Type	Steep	Normal Depth	1.83 ft
Flow Regime	Supercritical	Critical Depth	2.58 ft
Velocity Downstream	13.43 ft/s	Critical Slope	0.008725 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	3.00 ft
Section Size	36 inch	Rise	3.00 ft
Number Sections	3		

Outlet Control Properties			
Outlet Control HW Elev.	6.45 ft	Upstream Velocity Head	1.56 ft
Ke	0.20	Entrance Loss	0.31 ft

Inlet Control Properties			
Inlet Control HW Elev.	6.50 ft	Flow Control	Submerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	21.2 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

Culvert Calculator Report
42" RCP

Comments: Max. Allowable HW = 3.5 ft*1.5 + 2 ft (invert upstream) = 7.25 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	7.25 ft	Headwater Depth/Height	1.50
Computed Headwater Elev:	7.25 ft	Discharge	95.22 cfs
Inlet Control HW Elev.	7.25 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	7.19 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	2.26 ft
Slope Type	Steep	Normal Depth	2.09 ft
Flow Regime	Supercritical	Critical Depth	3.01 ft
Velocity Downstream	14.48 ft/s	Critical Slope	0.008288 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	3.50 ft
Section Size	42 inch	Rise	3.50 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	7.19 ft	Upstream Velocity Head	1.82 ft
Ke	0.20	Entrance Loss	0.36 ft

Inlet Control Properties			
Inlet Control HW Elev.	7.25 ft	Flow Control	Submerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	9.6 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

Culvert Calculator Report
Double 42" RCP

Comments: Max. Allowable HW = 3.5 ft*1.5 + 2 ft (invert upstream)= 7.25 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Twin Pipes at Stonecreek Ct.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	7.25 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	7.25 ft	Discharge	190.43 cfs
Inlet Control HW Elev.	7.25 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	7.19 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	2.26 ft
Slope Type	Steep	Normal Depth	2.09 ft
Flow Regime	Supercritical	Critical Depth	3.01 ft
Velocity Downstream	14.48 ft/s	Critical Slope	0.008288 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	3.50 ft
Section Size	42 inch	Rise	3.50 ft
Number Sections	2		

Outlet Control Properties			
Outlet Control HW Elev.	7.19 ft	Upstream Velocity Head	1.82 ft
Ke	0.20	Entrance Loss	0.36 ft

Inlet Control Properties			
Inlet Control HW Elev.	7.25 ft	Flow Control	Submerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	19.2 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

Culvert Calculator Report
48" RCP

Comments: Max. Allowable HW = 4 ft*1.5 + 2 ft (invert upstream) = 8 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	8.00 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	8.00 ft	Discharge	132.95 cfs
Inlet Control HW Elev.	8.00 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	7.93 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	2.60 ft
Slope Type	Steep	Normal Depth	2.36 ft
Flow Regime	Supercritical	Critical Depth	3.44 ft
Velocity Downstream	15.40 ft/s	Critical Slope	0.007927 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	4.00 ft
Section Size	48 inch	Rise	4.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	7.93 ft	Upstream Velocity Head	2.08 ft
Ke	0.20	Entrance Loss	0.42 ft

Inlet Control Properties			
Inlet Control HW Elev.	8.00 ft	Flow Control	Submerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	12.6 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

Culvert Calculator Report
Double 48" RCP

Comments: Max. Allowable HW = 4 ft*1.5 + 2 ft (invert upstream) = 8 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	8.00 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	8.00 ft	Discharge	265.90 cfs
Inlet Control HW Elev.	8.00 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	7.93 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	2.60 ft
Slope Type	Steep	Normal Depth	2.36 ft
Flow Regime	Supercritical	Critical Depth	3.44 ft
Velocity Downstream	15.40 ft/s	Critical Slope	0.007927 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	4.00 ft
Section Size	48 inch	Rise	4.00 ft
Number Sections	2		

Outlet Control Properties			
Outlet Control HW Elev.	7.93 ft	Upstream Velocity Head	2.08 ft
Ke	0.20	Entrance Loss	0.42 ft

Inlet Control Properties			
Inlet Control HW Elev.	8.00 ft	Flow Control	Submerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	25.1 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

Culvert Calculator Report
Triple 48" RCP

Comments: Max. Allowable HW = 4 ft*1.5 + 2 ft (invert upstream) = 8 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Modeled with a projecting entrance. Photos 2908 & 2909.

Notes: CMPs w/ FES. Trail ~ 2' higher than top of pipe. Needs maintenance at OF.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	8.00 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	8.00 ft	Discharge	398.85 cfs
Inlet Control HW Elev.	8.00 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	7.93 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	2.60 ft
Slope Type	Steep	Normal Depth	2.36 ft
Flow Regime	Supercritical	Critical Depth	3.44 ft
Velocity Downstream	15.40 ft/s	Critical Slope	0.007927 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	4.00 ft
Section Size	48 inch	Rise	4.00 ft
Number Sections	3		

Outlet Control Properties			
Outlet Control HW Elev.	7.93 ft	Upstream Velocity Head	2.08 ft
Ke	0.20	Entrance Loss	0.42 ft

Inlet Control Properties			
Inlet Control HW Elev.	8.00 ft	Flow Control	Submerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	37.7 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

Culvert Calculator Report
54" RCP

Comments: RCP w/ FES. This is a brand new cuvlert underneath a driveway. The inlet control type selected is a beveled ring. See the attached photo.

Max. Allowable HW = 4.5 ft*1.5 + 2 ft (invert upstream) = 8.75 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	8.75 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	8.75 ft	Discharge	178.47 cfs
Inlet Control HW Elev.	8.75 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	8.67 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	2.93 ft
Slope Type	Steep	Normal Depth	2.62 ft
Flow Regime	Supercritical	Critical Depth	3.87 ft
Velocity Downstream	16.25 ft/s	Critical Slope	0.007622 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	4.50 ft
Section Size	54 inch	Rise	4.50 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	8.67 ft	Upstream Velocity Head	2.34 ft
Ke	0.20	Entrance Loss	0.47 ft

Inlet Control Properties			
Inlet Control HW Elev.	8.75 ft	Flow Control	Submerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	15.9 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

Culvert Calculator Report
Triple 54" RCP

Comments: Max. Allowable HW = 4.5 ft*1.5 + 2 ft (invert upstream) = 8.75 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Triple 54" CMP located beneath Amethyst Drive.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	8.75 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	8.75 ft	Discharge	535.42 cfs
Inlet Control HW Elev.	8.75 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	8.67 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	2.93 ft
Slope Type	Steep	Normal Depth	2.62 ft
Flow Regime	Supercritical	Critical Depth	3.87 ft
Velocity Downstream	16.25 ft/s	Critical Slope	0.007622 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	4.50 ft
Section Size	54 inch	Rise	4.50 ft
Number Sections	3		

Outlet Control Properties			
Outlet Control HW Elev.	8.67 ft	Upstream Velocity Head	2.34 ft
Ke	0.20	Entrance Loss	0.47 ft

Inlet Control Properties			
Inlet Control HW Elev.	8.75 ft	Flow Control	Submerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	47.7 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

Culvert Calculator Report
60" RCP

Comments: Max Allowable HW = 5 ft*1.5 + 2 ft (invert upstream) = 9.5 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	9.50 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	9.50 ft	Discharge	232.26 cfs
Inlet Control HW Elev.	9.50 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	9.42 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	3.28 ft
Slope Type	Steep	Normal Depth	2.88 ft
Flow Regime	Supercritical	Critical Depth	4.30 ft
Velocity Downstream	17.02 ft/s	Critical Slope	0.007359 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	5.00 ft
Section Size	60 inch	Rise	5.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	9.42 ft	Upstream Velocity Head	2.59 ft
Ke	0.20	Entrance Loss	0.52 ft

Inlet Control Properties			
Inlet Control HW Elev.	9.50 ft	Flow Control	Submerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	19.6 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

Culvert Calculator Report
60" RCP (Arched)

Comments: Max Allowable HW = 5 ft*1.5 + 2 ft (invert upstream) = 9.5 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Looking at picture 3000 it has an arched shape. The size of 102 x 62 inches was selected because the height recorded is 60' and that was the closest option.

The entrance is assumed to be a groove end w/ headwall to give a Ke value of 0.20.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	9.50 ft	Headwater Depth/Height	1.45
Computed Headwater Elev	9.50 ft	Discharge	387.24 cfs
Inlet Control HW Elev.	9.50 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	9.19 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	2.89 ft
Slope Type	Steep	Normal Depth	2.39 ft
Flow Regime	Supercritical	Critical Depth	4.07 ft
Velocity Downstream	17.69 ft/s	Critical Slope	0.005437 ft/ft

Section			
Section Shape	Arch	Mannings Coefficient	0.013
Section Material	Concrete	Span	8.50 ft
Section Size	102.0 x 62.0 inch	Rise	5.17 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	9.19 ft	Upstream Velocity Head	2.60 ft
Ke	0.20	Entrance Loss	0.52 ft

Inlet Control Properties			
Inlet Control HW Elev.	9.50 ft	Flow Control	Submerged
Inlet Type	Groove end w/headwall (arch)	Area Full	34.3 ft²
K	0.00180	HDS 5 Chart	0
M	2.00000	HDS 5 Scale	0
C	0.02920	Equation Form	1
Y	0.74000		

Culvert Calculator Report
Double 60" RCP

Comments: Max Allowable HW = 5 ft*1.5 + 2 ft (invert upstream) = 9.5 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	9.50 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	9.50 ft	Discharge	464.51 cfs
Inlet Control HW Elev.	9.50 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	9.42 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	3.28 ft
Slope Type	Steep	Normal Depth	2.88 ft
Flow Regime	Supercritical	Critical Depth	4.30 ft
Velocity Downstream	17.02 ft/s	Critical Slope	0.007359 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	5.00 ft
Section Size	60 inch	Rise	5.00 ft
Number Sections	2		

Outlet Control Properties			
Outlet Control HW Elev.	9.42 ft	Upstream Velocity Head	2.59 ft
Ke	0.20	Entrance Loss	0.52 ft

Inlet Control Properties			
Inlet Control HW Elev.	9.50 ft	Flow Control	Submerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	39.3 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

Culvert Calculator Report
Tripple 60" RCP

Comments: Max Allowable HW = 5 ft*1.5 + 2 ft (invert upstream) = 9.5 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Photo 2796.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	9.50 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	9.50 ft	Discharge	696.77 cfs
Inlet Control HW Elev.	9.50 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	9.42 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	3.28 ft
Slope Type	Steep	Normal Depth	2.88 ft
Flow Regime	Supercritical	Critical Depth	4.30 ft
Velocity Downstream	17.02 ft/s	Critical Slope	0.007359 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	5.00 ft
Section Size	60 inch	Rise	5.00 ft
Number Sections	3		

Outlet Control Properties			
Outlet Control HW Elev.	9.42 ft	Upstream Velocity Head	2.59 ft
Ke	0.20	Entrance Loss	0.52 ft

Inlet Control Properties			
Inlet Control HW Elev.	9.50 ft	Flow Control	Submerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	58.9 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

Culvert Calculator Report
66" RCP

Comments: Max. Allowable HW = 5.5 ft*1.5 + 2 ft (invert upstream) = 10.25ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	10.25 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	10.25 ft	Discharge	294.75 cfs
Inlet Control HW Elev.	10.25 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	10.16 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	3.62 ft
Slope Type	Steep	Normal Depth	3.14 ft
Flow Regime	Supercritical	Critical Depth	4.73 ft
Velocity Downstream	17.75 ft/s	Critical Slope	0.007129 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	5.50 ft
Section Size	66 inch	Rise	5.50 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	10.16 ft	Upstream Velocity Head	2.85 ft
Ke	0.20	Entrance Loss	0.57 ft

Inlet Control Properties			
Inlet Control HW Elev.	10.25 ft	Flow Control	Submerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	23.8 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

Culvert Calculator Report
Twin 66" RCP

Comments: Photos 2927 and 2928. These culverts have been squashed to 58" tall by 74" wide and need maintenance. They are modeled as a round 66" twin CMP with a projecting entrance.

Max. Allowable HW = 5.5 ft*1.5 + 2 ft (invert upstream) = 10.25 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	10.25 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	10.25 ft	Discharge	589.49 cfs
Inlet Control HW Elev.	10.25 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	10.16 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	3.62 ft
Slope Type	Steep	Normal Depth	3.14 ft
Flow Regime	Supercritical	Critical Depth	4.73 ft
Velocity Downstream	17.75 ft/s	Critical Slope	0.007129 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	5.50 ft
Section Size	66 inch	Rise	5.50 ft
Number Sections	2		

Outlet Control Properties			
Outlet Control HW Elev.	10.16 ft	Upstream Velocity Head	2.85 ft
Ke	0.20	Entrance Loss	0.57 ft

Inlet Control Properties			
Inlet Control HW Elev.	10.25 ft	Flow Control	Submerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	47.5 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

Culvert Calculator Report
72" RCP

Comments: Max. Allowable HW = 6 ft*1.5 + 2 ft (invert upstream) = 11 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	11.00 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	11.00 ft	Discharge	366.37 cfs
Inlet Control HW Elev.	11.00 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	10.90 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	3.97 ft
Slope Type	Steep	Normal Depth	3.39 ft
Flow Regime	Supercritical	Critical Depth	5.16 ft
Velocity Downstream	18.43 ft/s	Critical Slope	0.006925 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	6.00 ft
Section Size	72 inch	Rise	6.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	10.90 ft	Upstream Velocity Head	3.11 ft
Ke	0.20	Entrance Loss	0.62 ft

Inlet Control Properties			
Inlet Control HW Elev.	11.00 ft	Flow Control	Submerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	28.3 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

Culvert Calculator Report
78" RCP

Comments: Max. Allowable HW = 6.5 ft*1.5 + 2 ft (invert upstream) = 11.75 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	11.75 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	11.75 ft	Discharge	447.53 cfs
Inlet Control HW Elev.	11.75 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	11.64 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	4.33 ft
Slope Type	Steep	Normal Depth	3.64 ft
Flow Regime	Supercritical	Critical Depth	5.59 ft
Velocity Downstream	19.07 ft/s	Critical Slope	0.006743 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.013
Section Material	Concrete	Span	6.50 ft
Section Size	78 inch	Rise	6.50 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	11.64 ft	Upstream Velocity Head	3.37 ft
Ke	0.20	Entrance Loss	0.67 ft

Inlet Control Properties			
Inlet Control HW Elev.	11.75 ft	Flow Control	Submerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	33.2 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

Culvert Calculator Report
3' D X 6.5' W RCBC

Comments: Max Allowable HW = 3 ft*1.5 + 2 ft (invert upstream) = 6.5 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The invert data is arbitrary numbers to output a 2% slope.

There is not an option to run a RCBC with a 6.5 ft width so a 6' X 3' RCBC is run to be conservative.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	11.00 ft	Headwater Depth/Height	3.00
Computed Headwater Elev	11.00 ft	Discharge	245.41 cfs
Inlet Control HW Elev.	11.00 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	9.33 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	2.48 ft
Slope Type	Steep	Normal Depth	2.17 ft
Flow Regime	Supercritical	Critical Depth	3.00 ft
Velocity Downstream	16.47 ft/s	Critical Slope	0.014227 ft/ft

Section			
Section Shape	Box	Mannings Coefficient	0.013
Section Material	Concrete	Span	6.00 ft
Section Size	6 x 3 ft	Rise	3.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	9.33 ft	Upstream Velocity Head	2.89 ft
Ke	0.50	Entrance Loss	1.44 ft

Inlet Control Properties			
Inlet Control HW Elev.	11.00 ft	Flow Control	Submerged
Inlet Type	30 to 75° wingwall flares	Area Full	18.0 ft²
K	0.02600	HDS 5 Chart	8
M	1.00000	HDS 5 Scale	1
C	0.03470	Equation Form	1
Y	0.86000		

Culvert Calculator Report
4' D X 6' W RCBC

Comments: Photo's 3039 - 3041 show this RCBC. It was measured to be 5' D X 9' W. It is modeled as an inlet control condition with wingwall flares from 30 to 75 degrees.

Max Allowable HW = 4 ft*1.5 + 2 ft (invert upstream) = 8 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	8.00 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	8.00 ft	Discharge	207.75 cfs
Inlet Control HW Elev.	8.00 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	7.85 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	2.22 ft
Slope Type	Steep	Normal Depth	1.93 ft
Flow Regime	Supercritical	Critical Depth	3.34 ft
Velocity Downstream	15.60 ft/s	Critical Slope	0.004468 ft/ft

Section			
Section Shape	Box	Mannings Coefficient	0.013
Section Material	Concrete	Span	6.00 ft
Section Size	6 x 4 ft	Rise	4.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	7.85 ft	Upstream Velocity Head	1.67 ft
Ke	0.50	Entrance Loss	0.84 ft

Inlet Control Properties			
Inlet Control HW Elev.	8.00 ft	Flow Control	Submerged
Inlet Type	30 to 75° wingwall flares	Area Full	24.0 ft²
K	0.02600	HDS 5 Chart	8
M	1.00000	HDS 5 Scale	1
C	0.03470	Equation Form	1
Y	0.86000		

Culvert Calculator Report
Double 4' D X 7' W RCBC

Comments: Max Allowable HW = 4 ft*1.5 + 2 ft (invert upstream) = 8 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The invert data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	8.00 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	8.00 ft	Discharge	484.74 cfs
Inlet Control HW Elev.	8.00 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	7.85 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	2.19 ft
Slope Type	Steep	Normal Depth	1.88 ft
Flow Regime	Supercritical	Critical Depth	3.34 ft
Velocity Downstream	15.78 ft/s	Critical Slope	0.004025 ft/ft

Section			
Section Shape	Box	Mannings Coefficient	0.013
Section Material	Concrete	Span	7.00 ft
Section Size	7 x 4 ft	Rise	4.00 ft
Number Sections	2		

Outlet Control Properties			
Outlet Control HW Elev.	7.85 ft	Upstream Velocity Head	1.67 ft
Ke	0.50	Entrance Loss	0.84 ft

Inlet Control Properties			
Inlet Control HW Elev.	8.00 ft	Flow Control	Submerged
Inlet Type	30 to 75° wingwall flares	Area Full	56.0 ft²
K	0.02600	HDS 5 Chart	8
M	1.00000	HDS 5 Scale	1
C	0.03470	Equation Form	1
Y	0.86000		

Culvert Calculator Report
48" Twin RCBCs

Comments: Photo 3043 shows this twin culvert that is located beneath Fish Creek Falls Road. It was recorded to be 4' D X 9' W. There was only on option for 8' and 10' wide so I went with 8 x 4 ft. The entrance condition was selected with 45 deg wingwall flares by looking at the attached photo.

Max. Allowable HW = 4 ft*1.5 + 2 ft (invert upstream) = 8 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	8.00 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	8.00 ft	Discharge	560.71 cfs
Inlet Control HW Elev.	7.81 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	8.00 ft	Control Type	Outlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.000000 ft/ft

Hydraulic Profile			
Profile	CompositeH2PressureProfile	Depth, Downstream	3.37 ft
Slope Type	Horizontal	Normal Depth	N/A ft
Flow Regime	Subcritical	Critical Depth	3.37 ft
Velocity Downstream	10.41 ft/s	Critical Slope	0.003709 ft/ft

Section			
Section Shape	Box	Mannings Coefficient	0.013
Section Material	Concrete	Span	8.00 ft
Section Size	8 x 4 ft	Rise	4.00 ft
Number Sections	2		

Outlet Control Properties			
Outlet Control HW Elev.	8.00 ft	Upstream Velocity Head	1.19 ft
Ke	0.50	Entrance Loss	0.60 ft

Inlet Control Properties			
Inlet Control HW Elev.	7.81 ft	Flow Control	Submerged
Inlet Type	45° non-offset wingwall flares	Area Full	64.0 ft²
K	0.49700	HDS 5 Chart	12
M	0.66700	HDS 5 Scale	1
C	0.03390	Equation Form	2
Y	0.80300		

Culvert Calculator Report
5' D X 9' W RCBC

Comments: Photo's 3039 - 3041 show this RCBC. It was measured to be 5' D X 9' W. It is modeled as an inlet control condition with wingwall flares from 30 to 75 degrees.

Max Allowable HW = 5 ft*1.5 + 2 ft (invert upstream) = 9.5 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	9.50 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	9.50 ft	Discharge	435.50 cfs
Inlet Control HW Elev.	9.50 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	9.31 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	2.80 ft
Slope Type	Steep	Normal Depth	2.27 ft
Flow Regime	Supercritical	Critical Depth	4.18 ft
Velocity Downstream	17.28 ft/s	Critical Slope	0.003669 ft/ft

Section			
Section Shape	Box	Mannings Coefficient	0.013
Section Material	Concrete	Span	9.00 ft
Section Size	9 x 5 ft	Rise	5.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	9.31 ft	Upstream Velocity Head	2.09 ft
Ke	0.50	Entrance Loss	1.04 ft

Inlet Control Properties			
Inlet Control HW Elev.	9.50 ft	Flow Control	Submerged
Inlet Type	30 to 75° wingwall flares	Area Full	45.0 ft²
K	0.02600	HDS 5 Chart	8
M	1.00000	HDS 5 Scale	1
C	0.03470	Equation Form	1
Y	0.86000		

Culvert Calculator Report
5' D X 10' W

Comments: Max Allowable HW = 5 ft*1.5 + 2 ft (invert upstream) = 9.5 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	9.50 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	9.50 ft	Discharge	483.89 cfs
Inlet Control HW Elev.	9.50 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	9.31 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	2.78 ft
Slope Type	Steep	Normal Depth	2.24 ft
Flow Regime	Supercritical	Critical Depth	4.18 ft
Velocity Downstream	17.38 ft/s	Critical Slope	0.003436 ft/ft

Section			
Section Shape	Box	Mannings Coefficient	0.013
Section Material	Concrete	Span	10.00 ft
Section Size	10 x 5 ft	Rise	5.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	9.31 ft	Upstream Velocity Head	2.09 ft
Ke	0.50	Entrance Loss	1.04 ft

Inlet Control Properties			
Inlet Control HW Elev.	9.50 ft	Flow Control	Submerged
Inlet Type	30 to 75° wingwall flares	Area Full	50.0 ft²
K	0.02600	HDS 5 Chart	8
M	1.00000	HDS 5 Scale	1
C	0.03470	Equation Form	1
Y	0.86000		

Culvert Calculator Report
Double 5' D X 10' W RCBC

Comments: Max Allowable HW = 5 ft*1.5 + 2 ft (invert upstream) = 9.5 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	9.50 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	9.50 ft	Discharge	967.78 cfs
Inlet Control HW Elev.	9.50 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	9.31 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	2.78 ft
Slope Type	Steep	Normal Depth	2.24 ft
Flow Regime	Supercritical	Critical Depth	4.18 ft
Velocity Downstream	17.38 ft/s	Critical Slope	0.003436 ft/ft

Section			
Section Shape	Box	Mannings Coefficient	0.013
Section Material	Concrete	Span	10.00 ft
Section Size	10 x 5 ft	Rise	5.00 ft
Number Sections	2		

Outlet Control Properties			
Outlet Control HW Elev.	9.31 ft	Upstream Velocity Head	2.09 ft
Ke	0.50	Entrance Loss	1.04 ft

Inlet Control Properties			
Inlet Control HW Elev.	9.50 ft	Flow Control	Submerged
Inlet Type	30 to 75° wingwall flares	Area Full	100.0 ft²
K	0.02600	HDS 5 Chart	8
M	1.00000	HDS 5 Scale	1
C	0.03470	Equation Form	1
Y	0.86000		

Culvert Calculator Report
6' D X 10' W RCBC

Comments: Max Allowable HW = 6 ft*1.5 + 2 ft (invert upstream) = 11 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	11.00 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	11.00 ft	Discharge	636.09 cfs
Inlet Control HW Elev.	11.00 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	10.77 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	3.44 ft
Slope Type	Steep	Normal Depth	2.70 ft
Flow Regime	Supercritical	Critical Depth	5.01 ft
Velocity Downstream	18.49 ft/s	Critical Slope	0.003631 ft/ft

Section			
Section Shape	Box	Mannings Coefficient	0.013
Section Material	Concrete	Span	10.00 ft
Section Size	10 x 6 ft	Rise	6.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	10.77 ft	Upstream Velocity Head	2.51 ft
Ke	0.50	Entrance Loss	1.25 ft

Inlet Control Properties			
Inlet Control HW Elev.	11.00 ft	Flow Control	Submerged
Inlet Type	30 to 75° wingwall flares	Area Full	60.0 ft²
K	0.02600	HDS 5 Chart	8
M	1.00000	HDS 5 Scale	1
C	0.03470	Equation Form	1
Y	0.86000		

Culvert Calculator Report
Double 6' D X 10' W RCBC

Comments: Max Allowable HW = 6 ft*1.5 + 2 ft (invert upstream) = 11 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	11.00 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	11.00 ft	Discharge	1,272.18 cfs
Inlet Control HW Elev.	11.00 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	10.77 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	3.44 ft
Slope Type	Steep	Normal Depth	2.70 ft
Flow Regime	Supercritical	Critical Depth	5.01 ft
Velocity Downstream	18.49 ft/s	Critical Slope	0.003631 ft/ft

Section			
Section Shape	Box	Mannings Coefficient	0.013
Section Material	Concrete	Span	10.00 ft
Section Size	10 x 6 ft	Rise	6.00 ft
Number Sections	2		

Outlet Control Properties			
Outlet Control HW Elev.	10.77 ft	Upstream Velocity Head	2.51 ft
Ke	0.50	Entrance Loss	1.25 ft

Inlet Control Properties			
Inlet Control HW Elev.	11.00 ft	Flow Control	Submerged
Inlet Type	30 to 75° wingwall flares	Area Full	120.0 ft²
K	0.02600	HDS 5 Chart	8
M	1.00000	HDS 5 Scale	1
C	0.03470	Equation Form	1
Y	0.86000		

Culvert Calculator Report
6' D X 12' W RCBC

Comments: Max Allowable HW = 6 ft*1.5 + 2 ft (invert upstream) = 11 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	11.00 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	11.00 ft	Discharge	763.31 cfs
Inlet Control HW Elev.	11.00 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	10.77 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	3.41 ft
Slope Type	Steep	Normal Depth	2.63 ft
Flow Regime	Supercritical	Critical Depth	5.01 ft
Velocity Downstream	18.64 ft/s	Critical Slope	0.003233 ft/ft

Section			
Section Shape	Box	Mannings Coefficient	0.013
Section Material	Concrete	Span	12.00 ft
Section Size	12 x 6 ft	Rise	6.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	10.77 ft	Upstream Velocity Head	2.51 ft
Ke	0.50	Entrance Loss	1.25 ft

Inlet Control Properties			
Inlet Control HW Elev.	11.00 ft	Flow Control	Submerged
Inlet Type	30 to 75° wingwall flares	Area Full	72.0 ft²
K	0.02600	HDS 5 Chart	8
M	1.00000	HDS 5 Scale	1
C	0.03470	Equation Form	1
Y	0.86000		

Culvert Calculator Report
Double 6' D X 12' W RCBC

Comments: Max Allowable HW = 6 ft*1.5 + 2 ft (invert upstream) = 11 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	11.00 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	11.00 ft	Discharge	1,526.62 cfs
Inlet Control HW Elev.	11.00 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	10.77 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	3.41 ft
Slope Type	Steep	Normal Depth	2.63 ft
Flow Regime	Supercritical	Critical Depth	5.01 ft
Velocity Downstream	18.64 ft/s	Critical Slope	0.003233 ft/ft

Section			
Section Shape	Box	Mannings Coefficient	0.013
Section Material	Concrete	Span	12.00 ft
Section Size	12 x 6 ft	Rise	6.00 ft
Number Sections	2		

Outlet Control Properties			
Outlet Control HW Elev.	10.77 ft	Upstream Velocity Head	2.51 ft
Ke	0.50	Entrance Loss	1.25 ft

Inlet Control Properties			
Inlet Control HW Elev.	11.00 ft	Flow Control	Submerged
Inlet Type	30 to 75° wingwall flares	Area Full	144.0 ft²
K	0.02600	HDS 5 Chart	8
M	1.00000	HDS 5 Scale	1
C	0.03470	Equation Form	1
Y	0.86000		

Culvert Calculator Report
8' D X 10' W RCBC

Comments: Max Allowable HW = 8 ft*1.5 + 2 ft (invert upstream) = 14 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	11.00 ft	Headwater Depth/Height	1.13
Computed Headwater Elev	11.00 ft	Discharge	661.54 cfs
Inlet Control HW Elev.	10.24 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	11.00 ft	Control Type	Entrance Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	3.55 ft
Slope Type	Steep	Normal Depth	2.78 ft
Flow Regime	Supercritical	Critical Depth	5.14 ft
Velocity Downstream	18.65 ft/s	Critical Slope	0.003664 ft/ft

Section			
Section Shape	Box	Mannings Coefficient	0.013
Section Material	Concrete	Span	10.00 ft
Section Size	10 x 8 ft	Rise	8.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	11.00 ft	Upstream Velocity Head	2.57 ft
Ke	0.50	Entrance Loss	1.29 ft

Inlet Control Properties			
Inlet Control HW Elev.	10.24 ft	Flow Control	Unsubmerged
Inlet Type	30 to 75° wingwall flares	Area Full	80.0 ft²
K	0.02600	HDS 5 Chart	8
M	1.00000	HDS 5 Scale	1
C	0.03470	Equation Form	1
Y	0.86000		

Culvert Calculator Report
8' D X 12' W RCBC

Comments: Max Allowable HW = 8 ft*1.5 + 2 ft (invert upstream) = 14 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	11.00 ft	Headwater Depth/Height	1.13
Computed Headwater Elev	11.00 ft	Discharge	793.85 cfs
Inlet Control HW Elev.	10.24 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	11.00 ft	Control Type	Entrance Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	3.52 ft
Slope Type	Steep	Normal Depth	2.70 ft
Flow Regime	Supercritical	Critical Depth	5.14 ft
Velocity Downstream	18.81 ft/s	Critical Slope	0.003257 ft/ft

Section			
Section Shape	Box	Mannings Coefficient	0.013
Section Material	Concrete	Span	12.00 ft
Section Size	12 x 8 ft	Rise	8.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	11.00 ft	Upstream Velocity Head	2.57 ft
Ke	0.50	Entrance Loss	1.29 ft

Inlet Control Properties			
Inlet Control HW Elev.	10.24 ft	Flow Control	Unsubmerged
Inlet Type	30 to 75° wingwall flares	Area Full	96.0 ft²
K	0.02600	HDS 5 Chart	8
M	1.00000	HDS 5 Scale	1
C	0.03470	Equation Form	1
Y	0.86000		

Culvert Calculator Report
Double 8' D X 12' W RCBC

Comments: Max Allowable HW = 6 ft*1.5 + 2 ft (invert upstream) = 11 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	11.00 ft	Headwater Depth/Height	1.13
Computed Headwater Elev	11.00 ft	Discharge	1,587.71 cfs
Inlet Control HW Elev.	10.24 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	11.00 ft	Control Type	Entrance Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	3.52 ft
Slope Type	Steep	Normal Depth	2.70 ft
Flow Regime	Supercritical	Critical Depth	5.14 ft
Velocity Downstream	18.81 ft/s	Critical Slope	0.003257 ft/ft

Section			
Section Shape	Box	Mannings Coefficient	0.013
Section Material	Concrete	Span	12.00 ft
Section Size	12 x 8 ft	Rise	8.00 ft
Number Sections	2		

Outlet Control Properties			
Outlet Control HW Elev.	11.00 ft	Upstream Velocity Head	2.57 ft
Ke	0.50	Entrance Loss	1.29 ft

Inlet Control Properties			
Inlet Control HW Elev.	10.24 ft	Flow Control	Unsubmerged
Inlet Type	30 to 75° wingwall flares	Area Full	192.0 ft²
K	0.02600	HDS 5 Chart	8
M	1.00000	HDS 5 Scale	1
C	0.03470	Equation Form	1
Y	0.86000		

Culvert Calculator Report
Triple 8' D X 10' W RCBC

Comments: Max Allowable HW = 8 ft*1.5 + 2 ft (invert upstream) = 14 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	11.00 ft	Headwater Depth/Height	1.13
Computed Headwater Elev	11.00 ft	Discharge	1,984.63 cfs
Inlet Control HW Elev.	10.24 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	11.00 ft	Control Type	Entrance Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	3.55 ft
Slope Type	Steep	Normal Depth	2.78 ft
Flow Regime	Supercritical	Critical Depth	5.14 ft
Velocity Downstream	18.65 ft/s	Critical Slope	0.003664 ft/ft

Section			
Section Shape	Box	Mannings Coefficient	0.013
Section Material	Concrete	Span	10.00 ft
Section Size	10 x 8 ft	Rise	8.00 ft
Number Sections	3		

Outlet Control Properties			
Outlet Control HW Elev.	11.00 ft	Upstream Velocity Head	2.57 ft
Ke	0.50	Entrance Loss	1.29 ft

Inlet Control Properties			
Inlet Control HW Elev.	10.24 ft	Flow Control	Unsubmerged
Inlet Type	30 to 75° wingwall flares	Area Full	240.0 ft²
K	0.02600	HDS 5 Chart	8
M	1.00000	HDS 5 Scale	1
C	0.03470	Equation Form	1
Y	0.86000		

Culvert Calculator Report
15" CMP

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	3.88 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	3.87 ft	Discharge	5.42 cfs
Inlet Control HW Elev.	3.75 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	3.87 ft	Control Type	Outlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	CompositeM2PressureProfile	Depth, Downstream	0.94 ft
Slope Type	Mild	Normal Depth	N/A ft
Flow Regime	Subcritical	Critical Depth	0.94 ft
Velocity Downstream	5.45 ft/s	Critical Slope	0.028412 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	1.25 ft
Section Size	15 inch	Rise	1.25 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	3.87 ft	Upstream Velocity Head	0.30 ft
Ke	0.90	Entrance Loss	0.27 ft

Inlet Control Properties			
Inlet Control HW Elev.	3.75 ft	Flow Control	Transition
Inlet Type	Projecting	Area Full	1.2 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

Culvert Calculator Report
18" CMP

Comments: Max. Allowable HW = 1.5 ft*1.5 + 2ft (invert upstream) = 4.25 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	4.25 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	4.25 ft	Discharge	8.83 cfs
Inlet Control HW Elev.	4.17 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	4.25 ft	Control Type	Outlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	CompositeM2PressureProfile	Depth, Downstream	1.15 ft
Slope Type	Mild	Normal Depth	N/A ft
Flow Regime	Subcritical	Critical Depth	1.15 ft
Velocity Downstream	6.07 ft/s	Critical Slope	0.027532 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	1.50 ft
Section Size	18 inch	Rise	1.50 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	4.25 ft	Upstream Velocity Head	0.39 ft
Ke	0.90	Entrance Loss	0.35 ft

Inlet Control Properties			
Inlet Control HW Elev.	4.17 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	1.8 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

Culvert Calculator Report
Triple 18" CMP

Comments: Max. Allowable HW = 1.5 ft*1.5 + 2 ft (invert upstream) = 4.25 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The invert data is arbitrary numbers to output a 2% slope.

~~There is drop structure located 30' upstream from the triple CMPs that is 15' W X 2' D.~~

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	4.25 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	4.25 ft	Discharge	26.48 cfs
Inlet Control HW Elev.	4.17 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	4.25 ft	Control Type	Outlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	CompositeM2PressureProfile	Depth, Downstream	1.15 ft
Slope Type	Mild	Normal Depth	N/A ft
Flow Regime	Subcritical	Critical Depth	1.15 ft
Velocity Downstream	6.07 ft/s	Critical Slope	0.027524 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	1.50 ft
Section Size	18 inch	Rise	1.50 ft
Number Sections	3		

Outlet Control Properties			
Outlet Control HW Elev.	4.25 ft	Upstream Velocity Head	0.39 ft
Ke	0.90	Entrance Loss	0.35 ft

Inlet Control Properties			
Inlet Control HW Elev.	4.17 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	5.3 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

Culvert Calculator Report
24" CMP

Comments: Max. Allowable HW = 2 ft*1.5 + 2 ft (invert upstream) = 5 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	5.00 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	5.00 ft	Discharge	18.61 cfs
Inlet Control HW Elev.	5.00 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	4.95 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	M2	Depth, Downstream	1.55 ft
Slope Type	Mild	Normal Depth	1.84 ft
Flow Regime	Subcritical	Critical Depth	1.55 ft
Velocity Downstream	7.11 ft/s	Critical Slope	0.025661 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	2.00 ft
Section Size	24 inch	Rise	2.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	4.95 ft	Upstream Velocity Head	0.60 ft
Ke	0.90	Entrance Loss	0.54 ft

Inlet Control Properties			
Inlet Control HW Elev.	5.00 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	3.1 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

Culvert Calculator Report
Triple 24" CMP

Comments: Max. Allowable HW = 2 ft*1.5 + 2 ft (invert upstream) = 5 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The invert data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	5.00 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	5.00 ft	Discharge	55.82 cfs
Inlet Control HW Elev.	5.00 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	4.95 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	M2	Depth, Downstream	1.55 ft
Slope Type	Mild	Normal Depth	1.84 ft
Flow Regime	Subcritical	Critical Depth	1.55 ft
Velocity Downstream	7.11 ft/s	Critical Slope	0.025667 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	2.00 ft
Section Size	24 inch	Rise	2.00 ft
Number Sections	3		

Outlet Control Properties			
Outlet Control HW Elev.	4.95 ft	Upstream Velocity Head	0.60 ft
Ke	0.90	Entrance Loss	0.54 ft

Inlet Control Properties			
Inlet Control HW Elev.	5.00 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	9.4 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

Culvert Calculator Report
30" CMP

Comments: Max. Allowable HW = 2.5 ft*1.5 + 2 ft (invert upstream) = 5.75 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	5.75 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	5.75 ft	Discharge	32.51 cfs
Inlet Control HW Elev.	5.75 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	5.70 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	M2	Depth, Downstream	1.94 ft
Slope Type	Mild	Normal Depth	2.14 ft
Flow Regime	Subcritical	Critical Depth	1.94 ft
Velocity Downstream	7.95 ft/s	Critical Slope	0.023822 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	2.50 ft
Section Size	30 inch	Rise	2.50 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	5.70 ft	Upstream Velocity Head	0.82 ft
Ke	0.90	Entrance Loss	0.74 ft

Inlet Control Properties			
Inlet Control HW Elev.	5.75 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	4.9 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

Culvert Calculator Report
Triple 30" CMP

Comments: Max. Allowable HW = 2.5 ft*1.5 + 2 ft (invert upstream) = 5.75 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

There is drop structure located 30' upstream from the triple CMPs that is 15' W X 2' D.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	5.75 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	5.75 ft	Discharge	97.52 cfs
Inlet Control HW Elev.	5.75 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	5.70 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	M2	Depth, Downstream	1.94 ft
Slope Type	Mild	Normal Depth	2.14 ft
Flow Regime	Subcritical	Critical Depth	1.94 ft
Velocity Downstream	7.95 ft/s	Critical Slope	0.023824 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	2.50 ft
Section Size	30 inch	Rise	2.50 ft
Number Sections	3		

Outlet Control Properties			
Outlet Control HW Elev.	5.70 ft	Upstream Velocity Head	0.82 ft
Ke	0.90	Entrance Loss	0.74 ft

Inlet Control Properties			
Inlet Control HW Elev.	5.75 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	14.7 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

Culvert Calculator Report
36" CMP

Comments: Max. Allowable HW = 3 ft*1.5 + 2 ft (invert upstream) = 6.5 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	6.50 ft	Headwater Depth/Height	1.50
Computed Headwater Eleva	6.50 ft	Discharge	51.28 cfs
Inlet Control HW Elev.	6.50 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	6.47 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	M2	Depth, Downstream	2.33 ft
Slope Type	Mild	Normal Depth	2.47 ft
Flow Regime	Subcritical	Critical Depth	2.33 ft
Velocity Downstream	8.71 ft/s	Critical Slope	0.022417 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	3.00 ft
Section Size	36 inch	Rise	3.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	6.47 ft	Upstream Velocity Head	1.05 ft
Ke	0.90	Entrance Loss	0.95 ft

Inlet Control Properties			
Inlet Control HW Elev.	6.50 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	7.1 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

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Culvert Calculator Report
Twin 36" CMP

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	6.50 ft	Headwater Depth/Height	1.50
Computed Headwater Eleva	6.50 ft	Discharge	102.55 cfs
Inlet Control HW Elev.	6.50 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	6.47 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	M2	Depth, Downstream	2.33 ft
Slope Type	Mild	Normal Depth	2.47 ft
Flow Regime	Subcritical	Critical Depth	2.33 ft
Velocity Downstream	8.71 ft/s	Critical Slope	0.022418 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	3.00 ft
Section Size	36 inch	Rise	3.00 ft
Number Sections	2		

Outlet Control Properties			
Outlet Control HW Elev.	6.47 ft	Upstream Velocity Head	1.05 ft
Ke	0.90	Entrance Loss	0.95 ft

Inlet Control Properties			
Inlet Control HW Elev.	6.50 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	14.1 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

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Culvert Calculator Report
Triple 36" CMP

Comments: Max. Allowable HW = 3 ft*1.5 + 2 ft (invert upstream) = 6.5 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	6.50 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	6.50 ft	Discharge	153.83 cfs
Inlet Control HW Elev.	6.50 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	6.47 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	M2	Depth, Downstream	2.33 ft
Slope Type	Mild	Normal Depth	2.47 ft
Flow Regime	Subcritical	Critical Depth	2.33 ft
Velocity Downstream	8.71 ft/s	Critical Slope	0.022418 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	3.00 ft
Section Size	36 inch	Rise	3.00 ft
Number Sections	3		

Outlet Control Properties			
Outlet Control HW Elev.	6.47 ft	Upstream Velocity Head	1.05 ft
Ke	0.90	Entrance Loss	0.95 ft

Inlet Control Properties			
Inlet Control HW Elev.	6.50 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	21.2 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

Culvert Calculator Report
42" CMP

Comments: Max. Allowable HW = 3.5 ft*1.5 + 2 ft (invert upstream) = 7.25 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	7.25 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	7.25 ft	Discharge	75.05 cfs
Inlet Control HW Elev.	7.22 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	7.25 ft	Control Type	Outlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	M2	Depth, Downstream	2.71 ft
Slope Type	Mild	Normal Depth	2.79 ft
Flow Regime	Subcritical	Critical Depth	2.71 ft
Velocity Downstream	9.38 ft/s	Critical Slope	0.021203 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	3.50 ft
Section Size	42 inch	Rise	3.50 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	7.25 ft	Upstream Velocity Head	1.29 ft
Ke	0.90	Entrance Loss	1.17 ft

Inlet Control Properties			
Inlet Control HW Elev.	7.22 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	9.6 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

Culvert Calculator Report
Double 42" CMP

Comments: Max. Allowable HW = 3.5 ft*1.5 + 2 ft (invert upstream)= 7.25 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Twin Pipes at Stonecreek Ct.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	7.25 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	7.25 ft	Discharge	150.11 cfs
Inlet Control HW Elev.	7.22 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	7.25 ft	Control Type	Outlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	M2	Depth, Downstream	2.71 ft
Slope Type	Mild	Normal Depth	2.79 ft
Flow Regime	Subcritical	Critical Depth	2.71 ft
Velocity Downstream	9.38 ft/s	Critical Slope	0.021204 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	3.50 ft
Section Size	42 inch	Rise	3.50 ft
Number Sections	2		

Outlet Control Properties			
Outlet Control HW Elev.	7.25 ft	Upstream Velocity Head	1.29 ft
Ke	0.90	Entrance Loss	1.17 ft

Inlet Control Properties			
Inlet Control HW Elev.	7.22 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	19.2 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

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Culvert Calculator Report
48" CMP

Comments: Max. Allowable HW = 4 ft*1.5 + 2 ft (invert upstream) = 8 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	8.00 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	8.00 ft	Discharge	103.20 cfs
Inlet Control HW Elev.	7.85 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	8.00 ft	Control Type	Entrance Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	3.08 ft
Slope Type	Steep	Normal Depth	3.08 ft
Flow Regime	Supercritical	Critical Depth	3.08 ft
Velocity Downstream	9.95 ft/s	Critical Slope	0.019984 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	4.00 ft
Section Size	48 inch	Rise	4.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	8.00 ft	Upstream Velocity Head	1.54 ft
Ke	0.90	Entrance Loss	1.38 ft

Inlet Control Properties			
Inlet Control HW Elev.	7.85 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	12.6 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

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Culvert Calculator Report
Double 48" CMP

Comments: Max. Allowable HW = 4 ft*1.5 + 2 ft (invert upstream) = 8 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	8.00 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	8.00 ft	Discharge	206.40 cfs
Inlet Control HW Elev.	7.85 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	8.00 ft	Control Type	Entrance Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	3.08 ft
Slope Type	Steep	Normal Depth	3.08 ft
Flow Regime	Supercritical	Critical Depth	3.08 ft
Velocity Downstream	9.95 ft/s	Critical Slope	0.019985 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	4.00 ft
Section Size	48 inch	Rise	4.00 ft
Number Sections	2		

Outlet Control Properties			
Outlet Control HW Elev.	8.00 ft	Upstream Velocity Head	1.54 ft
Ke	0.90	Entrance Loss	1.38 ft

Inlet Control Properties			
Inlet Control HW Elev.	7.85 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	25.1 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

Culvert Calculator Report
Triple 48" CMP

Comments: Max. Allowable HW = 4 ft*1.5 + 2 ft (invert upstream) = 8 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Modeled with a projecting entrance. Photos 2908 & 2909.

Notes: CMPs w/ FES. Trail ~ 2' higher than top of pipe. Needs maintenance at OF.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	8.00 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	8.00 ft	Discharge	309.61 cfs
Inlet Control HW Elev.	7.85 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	8.00 ft	Control Type	Entrance Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	3.08 ft
Slope Type	Steep	Normal Depth	3.08 ft
Flow Regime	Supercritical	Critical Depth	3.08 ft
Velocity Downstream	9.95 ft/s	Critical Slope	0.019985 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	4.00 ft
Section Size	48 inch	Rise	4.00 ft
Number Sections	3		

Outlet Control Properties			
Outlet Control HW Elev.	8.00 ft	Upstream Velocity Head	1.54 ft
Ke	0.90	Entrance Loss	1.38 ft

Inlet Control Properties			
Inlet Control HW Elev.	7.85 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	37.7 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

Culvert Calculator Report
54" CMP

Comments: Max. Allowable HW = 4.5 ft*1.5 + 2 ft (invert upstream) = 8.75 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	8.75 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	8.75 ft	Discharge	138.54 cfs
Inlet Control HW Elev.	8.58 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	8.75 ft	Control Type	Entrance Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	3.40 ft
Slope Type	Steep	Normal Depth	3.40 ft
Flow Regime	Supercritical	Critical Depth	3.46 ft
Velocity Downstream	10.75 ft/s	Critical Slope	0.019215 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	4.50 ft
Section Size	54 inch	Rise	4.50 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	8.75 ft	Upstream Velocity Head	1.73 ft
Ke	0.90	Entrance Loss	1.56 ft

Inlet Control Properties			
Inlet Control HW Elev.	8.58 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	15.9 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

Culvert Calculator Report
Triple 54" CMP

Comments: Max. Allowable HW = 4.5 ft*1.5 + 2 ft (invert upstream) = 8.75 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Triple 54" CMP located beneath Amethyst Drive.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	8.75 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	8.75 ft	Discharge	415.61 cfs
Inlet Control HW Elev.	8.58 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	8.75 ft	Control Type	Entrance Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	3.40 ft
Slope Type	Steep	Normal Depth	3.40 ft
Flow Regime	Supercritical	Critical Depth	3.46 ft
Velocity Downstream	10.75 ft/s	Critical Slope	0.019215 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	4.50 ft
Section Size	54 inch	Rise	4.50 ft
Number Sections	3		

Outlet Control Properties			
Outlet Control HW Elev.	8.75 ft	Upstream Velocity Head	1.73 ft
Ke	0.90	Entrance Loss	1.56 ft

Inlet Control Properties			
Inlet Control HW Elev.	8.58 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	47.7 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

Culvert Calculator Report
60" CMP

Comments: Max Allowable HW = 5 ft*1.5 + 2 ft (invert upstream) = 9.5 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	9.50 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	9.50 ft	Discharge	180.29 cfs
Inlet Control HW Elev.	9.31 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	9.50 ft	Control Type	Entrance Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	3.72 ft
Slope Type	Steep	Normal Depth	3.72 ft
Flow Regime	Supercritical	Critical Depth	3.85 ft
Velocity Downstream	11.50 ft/s	Critical Slope	0.018552 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	5.00 ft
Section Size	60 inch	Rise	5.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	9.50 ft	Upstream Velocity Head	1.92 ft
Ke	0.90	Entrance Loss	1.73 ft

Inlet Control Properties			
Inlet Control HW Elev.	9.31 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	19.6 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

Culvert Calculator Report
Double 60" CMP

Comments: Max Allowable HW = 5 ft*1.5 + 2 ft (invert upstream) = 9.5 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	9.50 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	9.50 ft	Discharge	360.57 cfs
Inlet Control HW Elev.	9.31 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	9.50 ft	Control Type	Entrance Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	3.72 ft
Slope Type	Steep	Normal Depth	3.72 ft
Flow Regime	Supercritical	Critical Depth	3.85 ft
Velocity Downstream	11.50 ft/s	Critical Slope	0.018552 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	5.00 ft
Section Size	60 inch	Rise	5.00 ft
Number Sections	2		

Outlet Control Properties			
Outlet Control HW Elev.	9.50 ft	Upstream Velocity Head	1.92 ft
Ke	0.90	Entrance Loss	1.73 ft

Inlet Control Properties			
Inlet Control HW Elev.	9.31 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	39.3 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

Culvert Calculator Report
Tripple 60" CMP

Comments: Max Allowable HW = 5 ft*1.5 + 2 ft (invert upstream) = 9.5 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Photo 2796.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	9.50 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	9.50 ft	Discharge	540.86 cfs
Inlet Control HW Elev.	9.31 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	9.50 ft	Control Type	Entrance Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	3.72 ft
Slope Type	Steep	Normal Depth	3.72 ft
Flow Regime	Supercritical	Critical Depth	3.85 ft
Velocity Downstream	11.50 ft/s	Critical Slope	0.018552 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	5.00 ft
Section Size	60 inch	Rise	5.00 ft
Number Sections	3		

Outlet Control Properties			
Outlet Control HW Elev.	9.50 ft	Upstream Velocity Head	1.92 ft
Ke	0.90	Entrance Loss	1.73 ft

Inlet Control Properties			
Inlet Control HW Elev.	9.31 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	58.9 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

Culvert Calculator Report
Twin 66" CMP

Comments: Photos 2927 and 2928. These culverts have been squashed to 58" tall by 74" wide and need maintenance. They are modeled as a round 66" twin CMP with a projecting entrance.

Max. Allowable HW = 5.5 ft*1.5 + 2 ft (invert upstream) = 10.25 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	10.25 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	10.25 ft	Discharge	457.59 cfs
Inlet Control HW Elev.	10.04 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	10.25 ft	Control Type	Entrance Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	4.04 ft
Slope Type	Steep	Normal Depth	4.04 ft
Flow Regime	Supercritical	Critical Depth	4.23 ft
Velocity Downstream	12.23 ft/s	Critical Slope	0.017972 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	5.50 ft
Section Size	66 inch	Rise	5.50 ft
Number Sections	2		

Outlet Control Properties			
Outlet Control HW Elev.	10.25 ft	Upstream Velocity Head	2.12 ft
Ke	0.90	Entrance Loss	1.90 ft

Inlet Control Properties			
Inlet Control HW Elev.	10.04 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	47.5 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

Culvert Calculator Report
70" CMP

Comments: Max. Allowable HW = 5.8 ft*1.5 + 2 ft (invert upstream) = 10.7ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	10.70 ft	Headwater Depth/Height	1.58
Computed Headwater Elev	10.70 ft	Discharge	243.00 cfs
Inlet Control HW Elev.	10.70 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	10.64 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	4.26 ft
Slope Type	Steep	Normal Depth	4.26 ft
Flow Regime	Supercritical	Critical Depth	4.35 ft
Velocity Downstream	12.32 ft/s	Critical Slope	0.019085 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	5.50 ft
Section Size	66 inch	Rise	5.50 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	10.64 ft	Upstream Velocity Head	2.26 ft
Ke	0.90	Entrance Loss	2.03 ft

Inlet Control Properties			
Inlet Control HW Elev.	10.70 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	23.8 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

Culvert Calculator Report
70" CMP + 15"

Comments: Max. Allowable HW = 6 ft*1.5 + 2 ft (invert upstream) = 11ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	11.00 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	11.00 ft	Discharge	284.39 cfs
Inlet Control HW Elev.	10.77 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	11.00 ft	Control Type	Entrance Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	4.35 ft
Slope Type	Steep	Normal Depth	4.35 ft
Flow Regime	Supercritical	Critical Depth	4.62 ft
Velocity Downstream	12.94 ft/s	Critical Slope	0.017458 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	6.00 ft
Section Size	72 inch	Rise	6.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	11.00 ft	Upstream Velocity Head	2.31 ft
Ke	0.90	Entrance Loss	2.08 ft

Inlet Control Properties			
Inlet Control HW Elev.	10.77 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	28.3 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

Culvert Calculator Report
72" CMP

Comments: Max. Allowable HW = 6 ft*1.5 + 2 ft (invert upstream) = 11 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	11.00 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	11.00 ft	Discharge	284.39 cfs
Inlet Control HW Elev.	10.77 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	11.00 ft	Control Type	Entrance Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	4.35 ft
Slope Type	Steep	Normal Depth	4.35 ft
Flow Regime	Supercritical	Critical Depth	4.62 ft
Velocity Downstream	12.94 ft/s	Critical Slope	0.017458 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	6.00 ft
Section Size	72 inch	Rise	6.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	11.00 ft	Upstream Velocity Head	2.31 ft
Ke	0.90	Entrance Loss	2.08 ft

Inlet Control Properties			
Inlet Control HW Elev.	10.77 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	28.3 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

Culvert Calculator Report
78" CMP

Comments: Max. Allowable HW = 6.5 ft*1.5 + 2 ft (invert upstream) = 11.75 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	11.75 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	11.75 ft	Discharge	347.40 cfs
Inlet Control HW Elev.	11.51 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	11.75 ft	Control Type	Entrance Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	4.67 ft
Slope Type	Steep	Normal Depth	4.67 ft
Flow Regime	Supercritical	Critical Depth	5.00 ft
Velocity Downstream	13.62 ft/s	Critical Slope	0.016998 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	6.50 ft
Section Size	78 inch	Rise	6.50 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	11.75 ft	Upstream Velocity Head	2.50 ft
Ke	0.90	Entrance Loss	2.25 ft

Inlet Control Properties			
Inlet Control HW Elev.	11.51 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	33.2 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

Culvert Calculator Report
84" CMP

Comments: Max. Allowable HW = 7 ft*1.5 + 2 ft (invert upstream) = 12.5 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	12.50 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	12.50 ft	Discharge	418.11 cfs
Inlet Control HW Elev.	12.24 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	12.50 ft	Control Type	Entrance Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	4.98 ft
Slope Type	Steep	Normal Depth	4.98 ft
Flow Regime	Supercritical	Critical Depth	5.38 ft
Velocity Downstream	14.28 ft/s	Critical Slope	0.016583 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	CMP	Span	7.00 ft
Section Size	84 inch	Rise	7.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	12.50 ft	Upstream Velocity Head	2.69 ft
Ke	0.90	Entrance Loss	2.42 ft

Inlet Control Properties			
Inlet Control HW Elev.	12.24 ft	Flow Control	Submerged
Inlet Type	Projecting	Area Full	38.5 ft²
K	0.03400	HDS 5 Chart	2
M	1.50000	HDS 5 Scale	3
C	0.05530	Equation Form	1
Y	0.54000		

Culvert Calculator Report
12" HDPE

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	3.50 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	3.50 ft	Discharge	2.01 cfs
Inlet Control HW Elev.	2.89 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	3.50 ft	Control Type	Outlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.000000 ft/ft

Hydraulic Profile			
Profile	CompositeH2PressureProfile	Depth, Downstream	0.61 ft
Slope Type	Horizontal	Normal Depth	N/A ft
Flow Regime	Subcritical	Critical Depth	0.61 ft
Velocity Downstream	4.05 ft/s	Critical Slope	0.013187 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.018
Section Material	Corrugated HDPE 12 inch (Corrugated Interior)	Span	1.00 ft
Section Size	12 inch	Rise	1.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	3.50 ft	Upstream Velocity Head	0.10 ft
Ke	0.20	Entrance Loss	0.02 ft

Inlet Control Properties			
Inlet Control HW Elev.	2.89 ft	Flow Control	Unsubmerged
Inlet Type	Groove end projecting	Area Full	0.8 ft²
K	0.00450	HDS 5 Chart	1
M	2.00000	HDS 5 Scale	3
C	0.03170	Equation Form	1
Y	0.69000		

Culvert Calculator Report
18" HDPE

Comments: Max. Allowable HW = 1.5 ft*1.5 + 2 ft (invert upstream) = 4.25 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

The material is assumed to be a corrugated HDPE 18-24 inch with a groove end projecting entrance coefficient.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	4.25 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	4.25 ft	Discharge	10.57 cfs
Inlet Control HW Elev.	4.16 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	4.25 ft	Control Type	Outlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	CompositeM2PressureProfile	Depth, Downstream	1.25 ft
Slope Type	Mild	Normal Depth	N/A ft
Flow Regime	Subcritical	Critical Depth	1.25 ft
Velocity Downstream	6.72 ft/s	Critical Slope	0.023331 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.020
Section Material	HDPE Ma24inch (Corrugated Interior)	Span	1.50 ft
Section Size	18 inch	Rise	1.50 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	4.25 ft	Upstream Velocity Head	0.56 ft
Ke	0.20	Entrance Loss	0.11 ft

Inlet Control Properties			
Inlet Control HW Elev.	4.16 ft	Flow Control	Submerged
Inlet Type	Groove end projecting	Area Full	1.8 ft²
K	0.00450	HDS 5 Chart	1
M	2.00000	HDS 5 Scale	3
C	0.03170	Equation Form	1
Y	0.69000		

Culvert Calculator Report
24" HDPE

Comments: Max. Allowable HW = 2 ft*1.5 + 2 ft (invert upstream) = 5 ft

When tailwater elevation is under the max. allowable HW it has no influence on the discharge, therefore it remained at 0 ft. The inverte data is arbitrary numbers to output a 2% slope.

The material is assumed to be corrugated HDPE 18-24 inch with and entrance coefficient that is groove and projecting.

Solve For: Discharge

Culvert Summary			
Allowable HW Elevation	5.00 ft	Headwater Depth/Height	1.50
Computed Headwater Elev	5.00 ft	Discharge	22.60 cfs
Inlet Control HW Elev.	5.00 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	4.91 ft	Control Type	Inlet Control

Grades			
Upstream Invert	2.00 ft	Downstream Invert	0.00 ft
Length	100.00 ft	Constructed Slope	0.020000 ft/ft

Hydraulic Profile			
Profile	M2	Depth, Downstream	1.69 ft
Slope Type	Mild	Normal Depth	N/A ft
Flow Regime	Subcritical	Critical Depth	1.69 ft
Velocity Downstream	7.96 ft/s	Critical Slope	0.022359 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.020
Section Material	HDPE Ma24inch (Corrugated Interior)	Span	2.00 ft
Section Size	24 inch	Rise	2.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	4.91 ft	Upstream Velocity Head	0.83 ft
Ke	0.20	Entrance Loss	0.17 ft

Inlet Control Properties			
Inlet Control HW Elev.	5.00 ft	Flow Control	Submerged
Inlet Type	Groove end projecting	Area Full	3.1 ft²
K	0.00450	HDS 5 Chart	1
M	2.00000	HDS 5 Scale	3
C	0.03170	Equation Form	1
Y	0.69000		