

WWHM2012
PROJECT REPORT

General Model Information

Project Name: QCF Phase III - French Drain Sizing
Site Name: Queen City Farms
Site Address: 17825 Cedar Grove Rd SE
City: Maple Valley
Report Date: 8/23/2019
Gage: Seatac
Data Start: 1948/10/01
Data End: 2009/09/30
Timestep: 15 Minute
Precip Scale: 1.167
Version Date: 2018/10/10
Version: 4.2.16

POC Thresholds

Low Flow Threshold for POC1:	50 Percent of the 2 Year
High Flow Threshold for POC1:	50 Year

Landuse Basin Data

Predeveloped Land Use

French Drain Drainage Area

Bypass: No

GroundWater: No

Pervious Land Use	acre
A B, Forest, Mod	11.5
C, Pasture, Mod	1.5

Pervious Total 13

Impervious Land Use acre

Impervious Total 0

Basin Total 13

Element Flows To:

Surface	Interflow	Groundwater
---------	-----------	-------------

Mitigated Land Use

French Drain Drainage Area

Bypass: No

GroundWater: No

Pervious Land Use acre

A B, Forest, Mod 11.5

C, Pasture, Mod 1.5

Pervious Total 13

Impervious Land Use acre

Impervious Total 0

Basin Total 13

Element Flows To:

Surface

Interflow

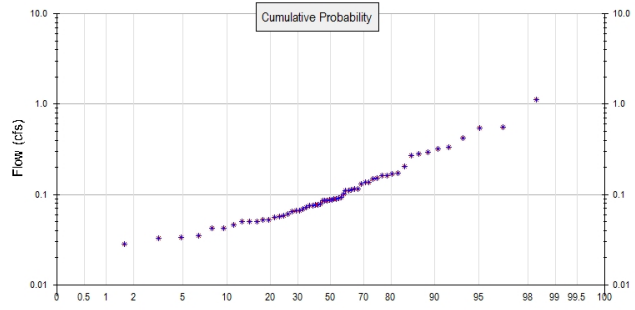
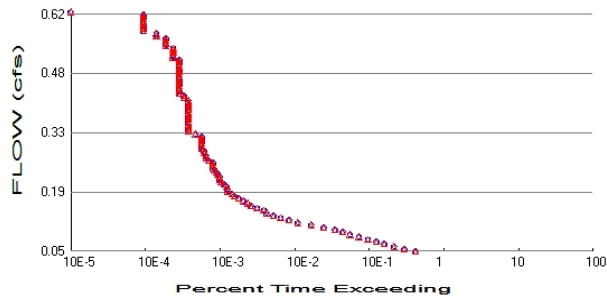
Groundwater

Routing Elements
Predeveloped Routing

Mitigated Routing

Analysis Results

POC 1



+ Predeveloped x Mitigated

Predeveloped Landuse Totals for POC #1

Total Pervious Area: 13
Total Impervious Area: 0

Mitigated Landuse Totals for POC #1

Total Pervious Area: 13
Total Impervious Area: 0

Flow Frequency Method: Log Pearson Type III 17B

Flow Frequency Return Periods for Predeveloped. POC #1

Return Period	Flow(cfs)
2 year	0.091544
5 year	0.18407
10 year	0.277647
25 year	0.446163
50 year	0.618501
100 year	0.841228

Flow Frequency Return Periods for Mitigated. POC #1

Return Period	Flow(cfs)
2 year	0.091544
5 year	0.18407
10 year	0.277647
25 year	0.446163
50 year	0.618501
100 year	0.841228

Annual Peaks

Annual Peaks for Predeveloped and Mitigated. POC #1

Year	Predeveloped	Mitigated
1949	0.162	0.162
1950	0.426	0.426
1951	0.170	0.170
1952	0.047	0.047
1953	0.042	0.042
1954	0.077	0.077
1955	0.089	0.089
1956	0.152	0.152
1957	0.086	0.086
1958	0.076	0.076

1959	0.056	0.056
1960	0.149	0.149
1961	0.078	0.078
1962	0.043	0.043
1963	0.065	0.065
1964	0.113	0.113
1965	0.088	0.088
1966	0.050	0.050
1967	0.203	0.203
1968	0.086	0.086
1969	0.073	0.073
1970	0.066	0.066
1971	0.085	0.085
1972	0.268	0.268
1973	0.053	0.053
1974	0.092	0.092
1975	0.102	0.102
1976	0.075	0.075
1977	0.057	0.057
1978	0.061	0.061
1979	0.033	0.033
1980	0.280	0.280
1981	0.058	0.058
1982	0.163	0.163
1983	0.088	0.088
1984	0.051	0.051
1985	0.034	0.034
1986	0.111	0.111
1987	0.110	0.110
1988	0.050	0.050
1989	0.035	0.035
1990	0.539	0.539
1991	0.294	0.294
1992	0.069	0.069
1993	0.052	0.052
1994	0.028	0.028
1995	0.114	0.114
1996	0.561	0.561
1997	0.135	0.135
1998	0.077	0.077
1999	0.323	0.323
2000	0.066	0.066
2001	0.022	0.022
2002	0.116	0.116
2003	0.171	0.171
2004	0.136	0.136
2005	0.092	0.092
2006	0.089	0.089
2007	1.119	1.119
2008	0.331	0.331
2009	0.131	0.131

Ranked Annual Peaks

Ranked Annual Peaks for Predeveloped and Mitigated. POC #1

Rank	Predeveloped	Mitigated
1	1.1193	1.1193
2	0.5606	0.5606
3	0.5394	0.5394

4	0.4260	0.4260
5	0.3313	0.3313
6	0.3230	0.3230
7	0.2937	0.2937
8	0.2804	0.2804
9	0.2677	0.2677
10	0.2031	0.2031
11	0.1714	0.1714
12	0.1700	0.1700
13	0.1632	0.1632
14	0.1621	0.1621
15	0.1522	0.1522
16	0.1487	0.1487
17	0.1364	0.1364
18	0.1355	0.1355
19	0.1313	0.1313
20	0.1163	0.1163
21	0.1143	0.1143
22	0.1128	0.1128
23	0.1115	0.1115
24	0.1097	0.1097
25	0.1022	0.1022
26	0.0924	0.0924
27	0.0918	0.0918
28	0.0891	0.0891
29	0.0887	0.0887
30	0.0881	0.0881
31	0.0880	0.0880
32	0.0857	0.0857
33	0.0856	0.0856
34	0.0850	0.0850
35	0.0782	0.0782
36	0.0769	0.0769
37	0.0766	0.0766
38	0.0759	0.0759
39	0.0745	0.0745
40	0.0725	0.0725
41	0.0689	0.0689
42	0.0662	0.0662
43	0.0658	0.0658
44	0.0653	0.0653
45	0.0608	0.0608
46	0.0580	0.0580
47	0.0573	0.0573
48	0.0559	0.0559
49	0.0526	0.0526
50	0.0521	0.0521
51	0.0507	0.0507
52	0.0501	0.0501
53	0.0500	0.0500
54	0.0466	0.0466
55	0.0428	0.0428
56	0.0420	0.0420
57	0.0347	0.0347
58	0.0335	0.0335
59	0.0328	0.0328
60	0.0283	0.0283
61	0.0217	0.0217

Duration Flows

The Facility PASSED

Flow(cfs)	Predev	Mit	Percentage	Pass/Fail
0.0458	8846	8846	100	Pass
0.0516	6205	6205	100	Pass
0.0573	4564	4564	100	Pass
0.0631	3397	3397	100	Pass
0.0689	2663	2663	100	Pass
0.0747	2045	2045	100	Pass
0.0805	1543	1543	100	Pass
0.0863	1171	1171	100	Pass
0.0921	929	929	100	Pass
0.0978	738	738	100	Pass
0.1036	519	519	100	Pass
0.1094	356	356	100	Pass
0.1152	235	235	100	Pass
0.1210	178	178	100	Pass
0.1268	138	138	100	Pass
0.1325	111	111	100	Pass
0.1383	90	90	100	Pass
0.1441	82	82	100	Pass
0.1499	67	67	100	Pass
0.1557	55	55	100	Pass
0.1615	50	50	100	Pass
0.1673	44	44	100	Pass
0.1730	38	38	100	Pass
0.1788	33	33	100	Pass
0.1846	31	31	100	Pass
0.1904	27	27	100	Pass
0.1962	27	27	100	Pass
0.2020	26	26	100	Pass
0.2078	24	24	100	Pass
0.2135	22	22	100	Pass
0.2193	21	21	100	Pass
0.2251	21	21	100	Pass
0.2309	20	20	100	Pass
0.2367	19	19	100	Pass
0.2425	18	18	100	Pass
0.2483	17	17	100	Pass
0.2540	17	17	100	Pass
0.2598	17	17	100	Pass
0.2656	15	15	100	Pass
0.2714	14	14	100	Pass
0.2772	14	14	100	Pass
0.2830	13	13	100	Pass
0.2887	13	13	100	Pass
0.2945	12	12	100	Pass
0.3003	12	12	100	Pass
0.3061	12	12	100	Pass
0.3119	12	12	100	Pass
0.3177	12	12	100	Pass
0.3235	12	12	100	Pass
0.3292	10	10	100	Pass
0.3350	8	8	100	Pass
0.3408	8	8	100	Pass
0.3466	8	8	100	Pass

0.3524	8	8	100	Pass
0.3582	8	8	100	Pass
0.3640	8	8	100	Pass
0.3697	8	8	100	Pass
0.3755	8	8	100	Pass
0.3813	8	8	100	Pass
0.3871	8	8	100	Pass
0.3929	8	8	100	Pass
0.3987	8	8	100	Pass
0.4045	8	8	100	Pass
0.4102	8	8	100	Pass
0.4160	7	7	100	Pass
0.4218	7	7	100	Pass
0.4276	6	6	100	Pass
0.4334	6	6	100	Pass
0.4392	6	6	100	Pass
0.4449	6	6	100	Pass
0.4507	6	6	100	Pass
0.4565	6	6	100	Pass
0.4623	6	6	100	Pass
0.4681	6	6	100	Pass
0.4739	6	6	100	Pass
0.4797	6	6	100	Pass
0.4854	6	6	100	Pass
0.4912	6	6	100	Pass
0.4970	6	6	100	Pass
0.5028	6	6	100	Pass
0.5086	6	6	100	Pass
0.5144	5	5	100	Pass
0.5202	5	5	100	Pass
0.5259	5	5	100	Pass
0.5317	5	5	100	Pass
0.5375	5	5	100	Pass
0.5433	4	4	100	Pass
0.5491	4	4	100	Pass
0.5549	4	4	100	Pass
0.5606	4	4	100	Pass
0.5664	3	3	100	Pass
0.5722	3	3	100	Pass
0.5780	2	2	100	Pass
0.5838	2	2	100	Pass
0.5896	2	2	100	Pass
0.5954	2	2	100	Pass
0.6011	2	2	100	Pass
0.6069	2	2	100	Pass
0.6127	2	2	100	Pass
0.6185	2	2	100	Pass

Water Quality

Water Quality BMP Flow and Volume for POC #1

On-line facility volume: 0 acre-feet

On-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

Off-line facility target flow: 0 cfs.

Adjusted for 15 min: 0 cfs.

LID Report

LID Technique	Used for Treatment ?	Total Volume Needs Treatment (ac-ft)	Volume Through Facility (ac-ft)	Infiltration Volume (ac-ft)	Cumulative Volume Infiltration Credit	Percent Volume Infiltrated	Water Quality	Percent Water Quality Treated	Comment
Total Volume Infiltrated		0.00	0.00	0.00		0.00	0.00	0%	No Treat. Credit
Compliance with LID Standard 8% of 2-yr to 50% of 2-yr									Duration Analysis Result = Passed

Model Default Modifications

Total of 0 changes have been made.

PERLND Changes

No PERLND changes have been made.

IMPLND Changes

No IMPLND changes have been made.

Appendix
Predeveloped Schematic



French Drain
Drainage
Area
13.00ac

Mitigated Schematic



French Drain
Drainage
Area
13.00ac

Predeveloped UCI File

RUN

GLOBAL

```
WVHM4 model simulation
START      1948 10 01      END      2009 09 30
RUN INTERP OUTPUT LEVEL   3      0
RESUME     0 RUN          1
UNIT SYSTEM 1
```

FILES

```
<File> <Un#> <-----File Name----->***
<-ID->                                     ***
WDM      26      QCF Phase III - French Drain Sizing.wdm
MESSU    25      PreQCF Phase III - French Drain Sizing.MES
          27      PreQCF Phase III - French Drain Sizing.L61
          28      PreQCF Phase III - French Drain Sizing.L62
          30      POCQCF Phase III - French Drain Sizing1.dat
```

END FILES

OPN SEQUENCE

```
INGRP          INDELT 00:15
  PERLND        2
  PERLND       14
  COPY         501
  DISPLY        1
```

END INGRP

END OPN SEQUENCE

DISPLY

DISPLY-INFO1

```
# - #<-----Title----->***TRAN PIVL DIG1 FIL1  PYR DIG2 FIL2 YRND
1      French Drain Drainage Are  MAX          1  2  30  9
```

END DISPLY-INFO1

END DISPLY

COPY

TIMESERIES

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

END TIMESERIES

END COPY

GENER

OPCODE

```
# # OPCD ***
```

END OPCODE

PARM

```
# # K ***
```

END PARM

END GENER

PERLND

GEN-INFO

```
<PLS ><-----Name----->NBLKS Unit-systems Printer ***
# - # User t-series Engl Metr ***
          in out ***
```

```
2      A/B, Forest, Mod      1  1  1  1  27  0
14     C, Pasture, Mod      1  1  1  1  27  0
```

END GEN-INFO

*** Section PWATER***

ACTIVITY

```
<PLS > ***** Active Sections *****
# - # ATMP SNOW PWAT SED PST PWG PQAL MSTL PEST NITR PHOS TRAC ***
2      0  0  1  0  0  0  0  0  0  0  0  0
14     0  0  1  0  0  0  0  0  0  0  0  0
```

END ACTIVITY

PRINT-INFO

```
<PLS > ***** Print-flags ***** PIVL PYR
# - # ATMP SNOW PWAT SED PST PWG PQAL MSTL PEST NITR PHOS TRAC *****
```

```

  2      0  0  4  0  0  0  0  0  0  0  0  0  1  9
 14      0  0  4  0  0  0  0  0  0  0  0  0  1  9
END PRINT-INFO

```

```

PWAT-PARM1
<PLS > PWATER variable monthly parameter value flags ***
# - # CSNO RTOP UZFG VCS VUZ VNN VIFW VIRC VLE INFC HWT ***
  2      0  0  0  0  0  0  0  0  0  0  0  0
 14      0  0  0  0  0  0  0  0  0  0  0  0
END PWAT-PARM1

```

```

PWAT-PARM2
<PLS > PWATER input info: Part 2 ***
# - # ***FOREST LZSN INFILT LSUR SLSUR KVARY AGWRC
  2      0  5  2  400 0.1 0.3 0.996
 14      0 4.5 0.06 400 0.1 0.5 0.996
END PWAT-PARM2

```

```

PWAT-PARM3
<PLS > PWATER input info: Part 3 ***
# - # ***PETMAX PETMIN INFEXP INFILD DEEPFR BASETP AGWETP
  2      0  0  2  2  0  0  0
 14      0  0  2  2  0  0  0
END PWAT-PARM3

```

```

PWAT-PARM4
<PLS > PWATER input info: Part 4 ***
# - # CEPSC UZSN NSUR INTFW IRC LZETP ***
  2      0.2 0.5 0.35 0 0.7 0.7
 14      0.15 0.4 0.3 6 0.5 0.4
END PWAT-PARM4

```

```

PWAT-STATE1
<PLS > *** Initial conditions at start of simulation
          ran from 1990 to end of 1992 (pat 1-11-95) RUN 21 ***
# - # *** CEPS SURS UZS IFWS LZS AGWS GWVS
  2      0  0  0  0  3  1  0
 14      0  0  0  0  2.5 1  0
END PWAT-STATE1

```

END PERLND

```

IMPLND
GEN-INFO
<PLS ><-----Name-----> Unit-systems Printer ***
# - # User t-series Engl Metr ***
          in out ***
END GEN-INFO
*** Section IWATER***

```

```

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

```

```

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

```

```

IWAT-PARM1
<PLS > IWATER variable monthly parameter value flags ***
# - # CSNO RTOP VRS VNN RTLI ***
END IWAT-PARM1

```

```

IWAT-PARM2
<PLS > IWATER input info: Part 2 ***
# - # *** LSUR SLSUR NSUR RETSC
END IWAT-PARM2

```

IWAT-PARM3

SPEC-ACTIONS
 END SPEC-ACTIONS
 FTABLES
 END FTABLES

EXT SOURCES

<-Volume->	<Member>	SsysSgap	<--Mult-->	Tran	<-Target vols>	<-Grp>	<-Member->	***
<Name>	#	<Name>	#	tem strg	<-factor->	strg	<Name>	# # ***
WDM	2	PREC		ENGL	1.167		PERLND	1 999 EXTNL PREC
WDM	2	PREC		ENGL	1.167		IMPLND	1 999 EXTNL PREC
WDM	1	EVAP		ENGL	0.76		PERLND	1 999 EXTNL PETINP
WDM	1	EVAP		ENGL	0.76		IMPLND	1 999 EXTNL PETINP

END EXT SOURCES

EXT TARGETS

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

END EXT TARGETS

MASS-LINK

<Volume>	<-Grp>	<-Member->	<--Mult-->	<Target>	<-Grp>	<-Member->	***
<Name>	#	<Name>	#	#<-factor->	<Name>	#	#***
MASS-LINK			12				
PERLND	PWATER	SURO		0.083333	COPY	INPUT	MEAN
END MASS-LINK			12				
MASS-LINK			13				
PERLND	PWATER	IFWO		0.083333	COPY	INPUT	MEAN
END MASS-LINK			13				

END MASS-LINK

END RUN

Mitigated UCI File

RUN

GLOBAL

```
WVHM4 model simulation
START      1948 10 01      END      2009 09 30
RUN INTERP OUTPUT LEVEL   3      0
RESUME     0 RUN         1
UNIT SYSTEM 1
```

END GLOBAL

FILES

```
<File> <Un#> <-----File Name----->***
<-ID->                                     ***
WDM      26      QCF Phase III - French Drain Sizing.wdm
MESSU    25      MitQCF Phase III - French Drain Sizing.MES
          27      MitQCF Phase III - French Drain Sizing.L61
          28      MitQCF Phase III - French Drain Sizing.L62
          30      POCQCF Phase III - French Drain Sizing1.dat
```

END FILES

OPN SEQUENCE

```
INGRP          INDELT 00:15
  PERLND        2
  PERLND       14
  COPY         501
  DISPLY        1
```

END INGRP

END OPN SEQUENCE

DISPLY

DISPLY-INFO1

```
# - #<-----Title----->***TRAN PIVL DIG1 FIL1 PYR DIG2 FIL2 YRND
1      French Drain Drainage Are MAX          1 2 30 9
```

END DISPLY-INFO1

END DISPLY

COPY

TIMESERIES

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

END TIMESERIES

END COPY

GENER

OPCODE

```
# # OPCD ***
```

END OPCODE

PARM

```
# # K ***
```

END PARM

END GENER

PERLND

GEN-INFO

```
<PLS ><-----Name----->NBLKS Unit-systems Printer ***
# - # User t-series Engl Metr ***
          in out ***
```

```
2      A/B, Forest, Mod      1 1 1 1 27 0
14     C, Pasture, Mod      1 1 1 1 27 0
```

END GEN-INFO

*** Section PWATER***

ACTIVITY

```
<PLS > ***** Active Sections *****
# - # ATMP SNOW PWAT SED PST PWG PQAL MSTL PEST NITR PHOS TRAC ***
2      0 0 1 0 0 0 0 0 0 0 0 0
14     0 0 1 0 0 0 0 0 0 0 0 0
```

END ACTIVITY

PRINT-INFO

```
<PLS > ***** Print-flags ***** PIVL PYR
# - # ATMP SNOW PWAT SED PST PWG PQAL MSTL PEST NITR PHOS TRAC *****
```

```

  2      0  0  4  0  0  0  0  0  0  0  0  0  1  9
 14      0  0  4  0  0  0  0  0  0  0  0  0  1  9
END PRINT-INFO

```

```

PWAT-PARM1
<PLS > PWATER variable monthly parameter value flags ***
# - # CSNO RTOP UZFG VCS VUZ VNN VIFW VIRC VLE INFC HWT ***
  2      0  0  0  0  0  0  0  0  0  0  0  0
 14      0  0  0  0  0  0  0  0  0  0  0  0
END PWAT-PARM1

```

```

PWAT-PARM2
<PLS > PWATER input info: Part 2 ***
# - # ***FOREST LZSN INFILT LSUR SLSUR KVARY AGWRC
  2      0  5  2  400 0.1 0.3 0.996
 14      0  4.5 0.06 400 0.1 0.5 0.996
END PWAT-PARM2

```

```

PWAT-PARM3
<PLS > PWATER input info: Part 3 ***
# - # ***PETMAX PETMIN INFEXP INFILD DEEPFR BASETP AGWETP
  2      0  0  2  2  0  0  0
 14      0  0  2  2  0  0  0
END PWAT-PARM3

```

```

PWAT-PARM4
<PLS > PWATER input info: Part 4 ***
# - # CEPSC UZSN NSUR INTFW IRC LZETP ***
  2      0.2 0.5 0.35 0 0.7 0.7
 14      0.15 0.4 0.3 6 0.5 0.4
END PWAT-PARM4

```

```

PWAT-STATE1
<PLS > *** Initial conditions at start of simulation
          ran from 1990 to end of 1992 (pat 1-11-95) RUN 21 ***
# - # *** CEPS SURS UZS IFWS LZS AGWS GWVS
  2      0  0  0  0  3  1  0
 14      0  0  0  0  2.5 1  0
END PWAT-STATE1

```

END PERLND

IMPLND

```

GEN-INFO
<PLS ><-----Name-----> Unit-systems Printer ***
# - # User t-series Engr Metr ***
          in out ***
END GEN-INFO
*** Section IWATER***

```

```

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

```

```

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

```

```

IWAT-PARM1
<PLS > IWATER variable monthly parameter value flags ***
# - # CSNO RTOP VRS VNN RTLI ***
END IWAT-PARM1

```

```

IWAT-PARM2
<PLS > IWATER input info: Part 2 ***
# - # *** LSUR SLSUR NSUR RETSC
END IWAT-PARM2

```

IWAT-PARM3

SPEC-ACTIONS
 END SPEC-ACTIONS
 FTABLES
 END FTABLES

EXT SOURCES

<-Volume->	<Member>	SsysSgap	<--Mult-->	Tran	<-Target vols>	<-Grp>	<-Member->	***
<Name>	#	<Name>	#	tem strg	<-factor->	strg	<Name>	# # ***
WDM	2	PREC		ENGL	1.167		PERLND	1 999 EXTNL PREC
WDM	2	PREC		ENGL	1.167		IMPLND	1 999 EXTNL PREC
WDM	1	EVAP		ENGL	0.76		PERLND	1 999 EXTNL PETINP
WDM	1	EVAP		ENGL	0.76		IMPLND	1 999 EXTNL PETINP

END EXT SOURCES

EXT TARGETS

<-Volume->	<-Grp>	<-Member->	<--Mult-->	Tran	<-Volume->	<Member>	Tsys	Tgap	Amd	***
<Name>	#	<Name>	#	#<-factor->	strg	<Name>	#	<Name>	tem strg	strg***
COPY	1	OUTPUT	MEAN	1 1	48.4	WDM	701	FLOW	ENGL	REPL
COPY	501	OUTPUT	MEAN	1 1	48.4	WDM	801	FLOW	ENGL	REPL

END EXT TARGETS

MASS-LINK

<Volume>	<-Grp>	<-Member->	<--Mult-->	<Target>	<-Grp>	<-Member->	***
<Name>	#	<Name>	#	<-factor->	<Name>	#	***
MASS-LINK		12					
PERLND	PWATER	SURO		0.083333	COPY	INPUT	MEAN
END MASS-LINK		12					
MASS-LINK		13					
PERLND	PWATER	IFWO		0.083333	COPY	INPUT	MEAN
END MASS-LINK		13					

END MASS-LINK

END RUN

Predeveloped HSPF Message File

Mitigated HSPF Message File

Disclaimer

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