

Introduction

This spreadsheet contains supporting information for the implementation of the bacteria TMDLs developed for the Pine Creek watershed. It is intended to provide additional detail to TMDLs presented in section 6.4 of the TMDL report. TMDL allocations were developed for each modeled subwatershed. Detailed source allocations of successful TMDL scenarios are provided as load allocations (LAs) for specific nonpoint source categories and wasteload allocations for individual point sources. The TMDL components and supporting information are presented in tabular format in separate pages of this worksheet. Each page is formatted so that the user may select from one of the pull-down menus in the table header to view specific details regarding a particular stream or pollutant source. Below is a description of the tables found in this worksheet:

Impaired_Segments

This tab presents the impaired segments that were included in the 2008 Pennsylvania Integrated Water Quality Monitoring and Assessment Report and Willow Run, which was identified as impaired through the monitoring data collected for this TMDL. Due to discrepancies in available GIS layers and subwatershed delineations, TMDLs were not developed for each individual segment on a one to one basis. Therefore this tab also shows for each listed segment 'Impaired Stream Name', the Allocation Basin Group and subwatersheds that are associated with that segment. TMDL allocations were developed for each modeled subwatershed.

Region_Map

This page displays maps of the Pine Creek watershed. The watershed was broken into 17 assessment groups which provide a basis for georeferencing the source allocations that are presented in this spreadsheet.

TMDLs_Daily

This table contains the components of the TMDL equation for the recreation impaired streams in the Pine Creek watershed, in average daily terms.

TMDL = sum of WLAs + sum of LAs + MOS

WLAs	wasteload allocation
LA	load allocation
MOS	margin of safety

Landuse_Summary

This table summarizes the daily bacteria contributions from the land surface in the Pine Creek watershed. The numbers represent the sum of MS4 and LA components. These numbers are separated in the LA_Landuse and WLA_MS4_Detail tabs.

Septics

This table contains detailed load allocations for fecal coliform from septic failures. Load allocations are presented on a subwatershed basis for both baseline and reduced conditions. All allocations are presented in total bacteria terms.

SWS	subwatershed
NPS	nonpoint sources

Landuse LA

This table contains detailed load allocations for specific nonpoint source categories: land-based sources, septic contributions, and other nonpoint sources. Load allocations are presented on a subwatershed basis for both baseline and reduced conditions. All allocations are presented in total bacteria terms.

SWS	subwatershed
NPS	nonpoint sources

Source_X

This table contains information related to required reductions for an unidentified source of bacteria (Source X) discharging bacteria to the selected watersheds addressed by this effort. It is presented by subwatershed for baseline and reduced conditions. All allocations are presented in total bacteria terms.

CSO_SSO

This table contains the baseline and wasteload allocations for the CSOs. They are presented by NPDES permit number for baseline and reduced conditions.

Permitted_Facilities

This table contains the wasteload allocations for sources other than MS4 and Source X point sources that are permitted to discharge to the selected watersheds addressed by this effort. They are presented by NPDES permit number and subwatershed for baseline and reduced conditions.

MS4_Summary

This table contains the baseline and wasteload allocations for the municipal separate storm sewer systems (MS4s) entities

MS4_Detail

This table contains additional information regarding the municipal separate storm sewer system (MS4s) entities addressed by this TMDL development effort. The information is provided by subwatershed and landuse. The operable MS4 bacteria wasteload allocations shown in the "WLA_MS4_Summary" tab are broken down into more detail here, but should be considered a reference.

Pine Creek Watershed Impaired Streams for which TMDLs are presented

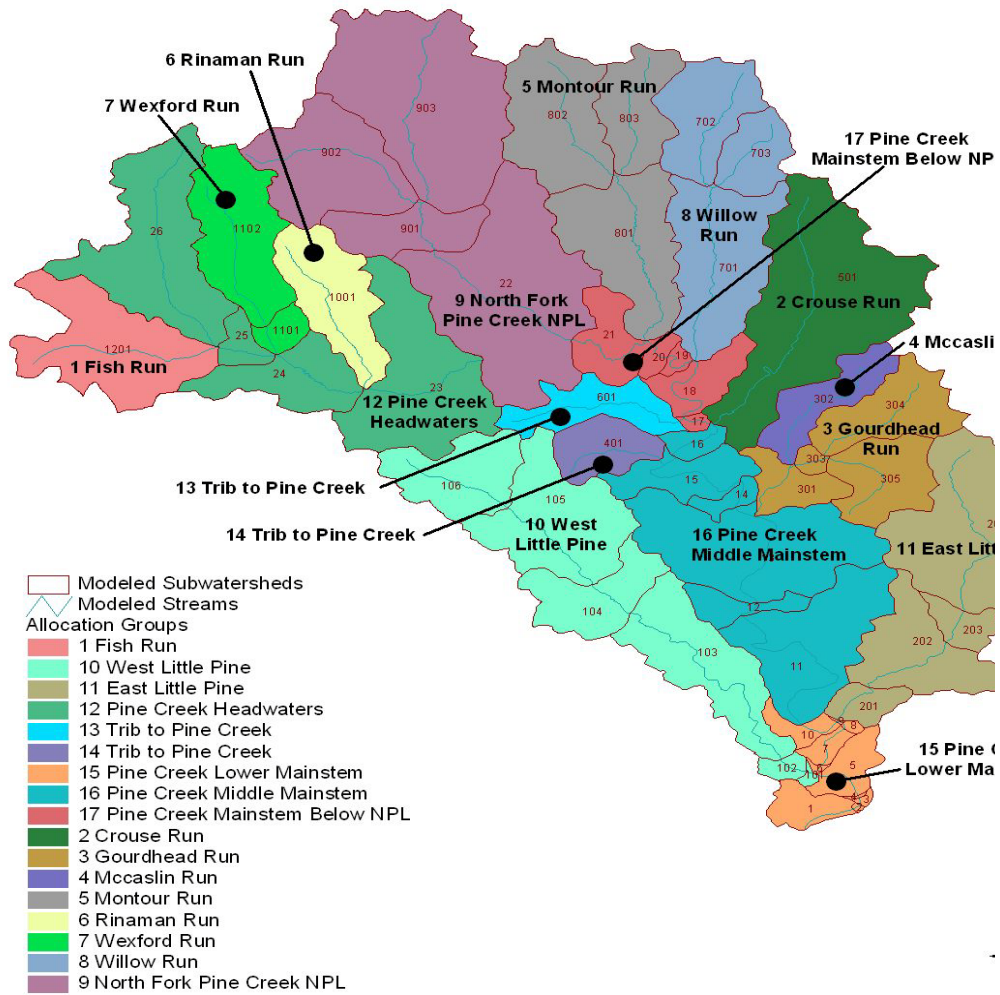
Region	Impaired Stream Name	Impaired Use - Length
2 Crouse Run	Crouse Run	Recreational (14249) - 4.21 miles
2 Crouse Run	Crouse Run (Unt 42163)	Recreational (14249) - 0.51 miles
2 Crouse Run	Crouse Run (Unt 42164)	Recreational (14249) - 0.81 miles
2 Crouse Run	Crouse Run (Unt 42165)	Recreational (14249) - 1.32 miles
2 Crouse Run	Crouse Run (Unt 42166)	Recreational (14249) - 0.89 miles
1 Fish Run	Fish Run	Recreational (14249) - 2.17 miles
1 Fish Run	Fish Run (Unt 42212)	Recreational (14249) - 0.77 miles
1 Fish Run	Fish Run (Unt 42213)	Recreational (14249) - 1.49 miles
3 Gourdhead Run	Gourdhead Run	Recreational (14249) - 2.93 miles
3 Gourdhead Run	Gourdhead Run (Unt 42156)	Recreational (14249) - 1.16 miles
3 Gourdhead Run	Gourdhead Run (Unt 42157)	Recreational (14249) - 0.18 miles
3 Gourdhead Run	Gourdhead Run (Unt 42158)	Recreational (14249) - 0.68 miles
3 Gourdhead Run	Gourdhead Run (Unt 42159)	Recreational (14249) - 0.55 miles
10 West Little Pine	Little Pine Creek	Recreational (14249) - 12.83 miles
11 East Little Pine	Little Pine Creek (Unt 42138)	Recreational (14249) - 1.07 miles
11 East Little Pine	Little Pine Creek (Unt 42139)	Recreational (14249) - 1.06 miles
11 East Little Pine	Little Pine Creek (Unt 42140)	Recreational (14249) - 1.22 miles
11 East Little Pine	Little Pine Creek (Unt 42141)	Recreational (14249) - 0.43 miles
11 East Little Pine	Little Pine Creek (Unt 42142)	Recreational (14249) - 0.77 miles
11 East Little Pine	Little Pine Creek (Unt 42143)	Recreational (14249) - 0.5 miles
11 East Little Pine	Little Pine Creek (Unt 42145)	Recreational (14249) - 1.02 miles
11 East Little Pine	Little Pine Creek (Unt 42146)	Recreational (14249) - 0.98 miles
11 East Little Pine	Little Pine Creek (Unt 42147)	Recreational (14249) - 0.61 miles
11 East Little Pine	Little Pine Creek (Unt 42148)	Recreational (14249) - 1.4 miles
11 East Little Pine	Little Pine Creek (Unt 42149)	Recreational (14249) - 0.61 miles
4 McCaslin Run	McCaslin Run	Recreational (14249) - 1.95 miles
5 Montour Run	Montour Run	Recreational (14249) - 4.99 miles
5 Montour Run	Montour Run (Unt 42177)	Recreational (14249) - 1.06 miles
5 Montour Run	Montour Run (Unt 42178)	Recreational (14249) - 0.51 miles
5 Montour Run	Montour Run (Unt 42179)	Recreational (14249) - 0.52 miles
5 Montour Run	Montour Run (Unt 42180)	Recreational (14249) - 0.41 miles
5 Montour Run	Montour Run (Unt 42181)	Recreational (14249) - 2.91 miles

5 Montour Run	Montour Run (Unt 42182)	Recreational (14249) - 2.53 miles
5 Montour Run	Montour Run (Unt 42183)	Recreational (14249) - 2.09 miles
5 Montour Run	Montour Run (Unt 42184)	Recreational (14249) - 0.55 miles
5 Montour Run	Montour Run (Unt 42185)	Recreational (14249) - 0.31 miles
5 Montour Run	Montour Run (Unt 42186)	Recreational (14249) - 0.32 miles
5 Montour Run	Montour Run (Unt 42187)	Recreational (14249) - 0.33 miles
5 Montour Run	Montour Run (Unt 64631)	Recreational (14249) - 0.63 miles
9 North Fork Pine Creek NPL	North Fork Pine Creek	Recreational (14249) - 6.01 miles
9 North Fork Pine Creek NPL	North Fork Pine Creek (Unt 42191)	Recreational (14249) - 0.69 miles
9 North Fork Pine Creek NPL	North Fork Pine Creek (Unt 42192)	Recreational (14249) - 1.02 miles
9 North Fork Pine Creek NPL	North Fork Pine Creek (Unt 42193)	Recreational (14249) - 3.02 miles
9 North Fork Pine Creek NPL	North Fork Pine Creek (Unt 42194)	Recreational (14249) - 1.54 miles
9 North Fork Pine Creek NPL	North Fork Pine Creek (Unt 42195)	Recreational (14249) - 1.21 miles
9 North Fork Pine Creek NPL	North Fork Pine Creek (Unt 42196)	Recreational (14249) - 2.21 miles
9 North Fork Pine Creek NPL	North Fork Pine Creek (Unt 42197)	Recreational (14249) - 0.25 miles
9 North Fork Pine Creek NPL	North Fork Pine Creek (Unt 42198)	Recreational (14249) - 2.01 miles
9 North Fork Pine Creek NPL	North Fork Pine Creek (Unt 42199)	Recreational (14249) - 1.64 miles
9 North Fork Pine Creek NPL	North Fork Pine Creek (Unt 42200)	Recreational (14249) - 0.28 miles
12 Pine Creek Headwaters	Pine Creek (42136)	Recreational (14249) - 7.06
17 Pine Creek Mainstem Below NPL	Pine Creek (42136)	Recreational (14249) - 3.97
16 Pine Creek Middle Mainstem	Pine Creek (42136)	Recreational (14249) - 8.52
15 Pine Creek Lower Mainstem	Pine Creek (42136)	Recreational (14249) - 2.6
9 North Fork Pine Creek NPL	Pine Creek (42136)	Recreational (14249) - 1.26 miles
16 Middle Mainstem	Pine Creek (Unt 42150)	Recreational (14249) - 1.1 miles
16 Middle Mainstem	Pine Creek (Unt 42151)	Recreational (14249) - 0.9 miles
16 Middle Mainstem	Pine Creek (Unt 42152)	Recreational (14249) - 1.39 miles
16 Middle Mainstem	Pine Creek (Unt 42153)	Recreational (14249) - 0.5 miles
16 Middle Mainstem	Pine Creek (Unt 42160)	Recreational (14249) - 0.57 miles
14 Trib to Pine Creek	Pine Creek (Unt 42161)	Recreational (14249) - 1.28 miles
13 Trib to Pine Creek	Pine Creek (Unt 42167)	Recreational (14249) - 2.06 miles
17 Pine Creek Mainstem Below NPL	Pine Creek (Unt 42188)	Recreational (14249) - 0.82 miles
9 North Fork Pine Creek NPL	Pine Creek (Unt 42189)	Recreational (14249) - 2.69 miles

9 North Fork Pine Creek NPL	Pine Creek (Unt 42201)	Recreational (14249) - 0.63 miles
12 Pine Creek Headwaters	Pine Creek (Unt 42202)	Recreational (14249) - 1.84 miles
12 Pine Creek Headwaters	Pine Creek (Unt 42203)	Recreational (14249) - 0.71 miles
12 Pine Creek Headwaters	Pine Creek (Unt 42204)	Recreational (14249) - 0.85 miles
12 Pine Creek Headwaters	Pine Creek (Unt 42208)	Recreational (14249) - 0.83 miles
12 Pine Creek Headwaters	Pine Creek (Unt 42215)	Recreational (14249) - 1.04 miles
6 Rinaman Run	Rinaman Run	Recreational (14249) - 3.41 miles
6 Rinaman Run	Rinaman Run (Unt 42206)	Recreational (14249) - 2.63 miles
7 Wexford Run	Wexford Run	Recreational (14249) - 2.8 miles
7 Wexford Run	Wexford Run (Unt 42210)	Recreational (14249) - 0.82 miles
8 Willow Run	Willow Run	Water was not identified on PA's 303(d) list

Source Unknown Pathogens		
Source Unknown Pathogens		
Source Unknown Pathogens		
Source Unknown Pathogens		
Source Unknown Pathogens		
Source Unknown Pathogens		
Source Unknown Pathogens	Listed length is inaccurate, should be 2.52 miles	
Source Unknown Pathogens	Listed length is inaccurate, should be 0.95 miles	
Source Unknown Pathogens		
Source Unknown Pathogens		

Associated Subwatershed(s)
1201
501
301 303 304 305
302
801 802 803
1001
1101 1102
701 702 703
22 901 902 903
201 202 203 204
101 102 103 104 105 106
23 24 25 26
601
401
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16
17 18 19 20 21



'L

in Run



Creek
instem



Pine Creek Watershed Bacteria Reductions (Daily)

Region	Modeled Subwatershed	Pollutant	Baseline LA (#/day)	LA (#/day)	Baseline WLA (#/day)	WLA (#/day)
15 Pine Creek Lower Mainstem	1	Fecal Coliform	2.52E+09	0.00E+00	1.80E+11	1.73E+10
15 Pine Creek Lower Mainstem	2	Fecal Coliform	1.47E+08	0.00E+00	8.53E+09	8.13E+08
15 Pine Creek Lower Mainstem	3	Fecal Coliform	0.00E+00	0.00E+00	1.83E+10	1.75E+09
15 Pine Creek Lower Mainstem	4	Fecal Coliform	0.00E+00	0.00E+00	2.46E+10	4.99E+09
15 Pine Creek Lower Mainstem	5	Fecal Coliform	1.19E+09	0.00E+00	1.69E+11	1.68E+10
15 Pine Creek Lower Mainstem	6	Fecal Coliform	0.00E+00	0.00E+00	2.75E+10	4.47E+09
15 Pine Creek Lower Mainstem	7	Fecal Coliform	1.04E+09	0.00E+00	7.16E+10	6.87E+09
15 Pine Creek Lower Mainstem	8	Fecal Coliform	3.88E+09	0.00E+00	6.55E+09	6.41E+08
15 Pine Creek Lower Mainstem	9	Fecal Coliform	1.49E+09	0.00E+00	2.67E+09	1.28E+08
15 Pine Creek Lower Mainstem	10	Fecal Coliform	7.61E+08	0.00E+00	1.19E+11	5.74E+09
16 Pine Creek Middle Mainstem	11	Fecal Coliform	1.99E+10	0.00E+00	6.71E+11	3.32E+10
16 Pine Creek Middle Mainstem	12	Fecal Coliform	3.46E+08	0.00E+00	1.28E+11	1.24E+10
16 Pine Creek Middle Mainstem	13	Fecal Coliform	1.51E+10	0.00E+00	8.56E+11	4.26E+10
16 Pine Creek Middle Mainstem	14	Fecal Coliform	3.75E+09	0.00E+00	9.54E+10	3.45E+10
16 Pine Creek Middle Mainstem	15	Fecal Coliform	5.22E+09	0.00E+00	1.36E+11	2.00E+10
16 Pine Creek Middle Mainstem	16	Fecal Coliform	1.76E+09	0.00E+00	4.42E+11	6.31E+10
17 Pine Creek Mainstem Below NPL	17	Fecal Coliform	5.15E+08	0.00E+00	7.92E+09	1.18E+09
17 Pine Creek Mainstem Below NPL	18	Fecal Coliform	4.32E+08	0.00E+00	4.66E+10	7.12E+09
17 Pine Creek Mainstem Below NPL	19	Fecal Coliform	1.66E+08	0.00E+00	3.48E+10	5.02E+09
17 Pine Creek Mainstem Below NPL	20	Fecal Coliform	7.05E+10	0.00E+00	7.43E+10	4.96E+10
17 Pine Creek Mainstem Below NPL	21	Fecal Coliform	1.03E+10	3.31E+08	1.14E+11	1.68E+10
9 North Fork Pine Creek NPL	22	Fecal Coliform	2.44E+12	2.80E+11	3.36E+12	3.83E+11
12 Pine Creek Headwaters	23	Fecal Coliform	8.98E+09	1.96E+08	7.09E+11	2.21E+10
12 Pine Creek Headwaters	24	Fecal Coliform	2.35E+09	0.00E+00	2.59E+11	1.32E+10
12 Pine Creek Headwaters	25	Fecal Coliform	0.00E+00	0.00E+00	4.98E+10	2.62E+09
12 Pine Creek Headwaters	26	Fecal Coliform	1.35E+10	3.57E+08	5.25E+11	2.73E+10
10 West Little Pine	101	Fecal Coliform	5.95E+08	0.00E+00	1.18E+10	3.71E+08
10 West Little Pine	102	Fecal Coliform	0.00E+00	0.00E+00	5.66E+10	1.81E+09
10 West Little Pine	103	Fecal Coliform	6.14E+09	0.00E+00	6.21E+11	1.89E+10
10 West Little Pine	104	Fecal Coliform	4.98E+08	0.00E+00	3.59E+11	1.09E+10
10 West Little Pine	105	Fecal Coliform	2.12E+10	0.00E+00	7.88E+11	2.31E+10

10 West Little Pine	106	Fecal Coliform	0.00E+00	0.00E+00	4.86E+11	5.41E+09
11 East Little Pine	201	Fecal Coliform	7.18E+09	0.00E+00	3.89E+10	3.99E+09
11 East Little Pine	202	Fecal Coliform	2.61E+10	0.00E+00	1.45E+11	1.50E+10
11 East Little Pine	203	Fecal Coliform	4.21E+09	0.00E+00	4.40E+10	4.51E+09
11 East Little Pine	204	Fecal Coliform	0.00E+00	0.00E+00	4.90E+11	4.00E+10
3 Gourdhead Run	301	Fecal Coliform	2.08E+08	0.00E+00	1.15E+11	7.10E+09
4 Mccaslin Run	302	Fecal Coliform	3.93E+08	0.00E+00	1.74E+11	9.13E+09
3 Gourdhead Run	303	Fecal Coliform	5.12E+07	0.00E+00	1.92E+10	2.82E+09
3 Gourdhead Run	304	Fecal Coliform	2.88E+08	0.00E+00	1.93E+11	1.39E+10
3 Gourdhead Run	305	Fecal Coliform	4.19E+08	0.00E+00	1.30E+11	1.35E+10
14 Trib to Pine Creek	401	Fecal Coliform	5.65E+09	0.00E+00	1.71E+11	6.98E+09
2 Crouse Run	501	Fecal Coliform	1.30E+09	0.00E+00	9.51E+11	3.96E+10
13 Trib to Pine Creek	601	Fecal Coliform	1.18E+09	0.00E+00	1.71E+11	8.91E+09
8 Willow Run	701	Fecal Coliform	1.01E+09	8.85E+07	2.05E+11	1.78E+10
8 Willow Run	702	Fecal Coliform	2.38E+10	2.70E+09	8.50E+10	8.70E+09
8 Willow Run	703	Fecal Coliform	1.30E+08	0.00E+00	5.84E+10	6.93E+09
5 Montour Run	801	Fecal Coliform	1.99E+10	1.62E+09	1.61E+11	1.40E+10
5 Montour Run	802	Fecal Coliform	1.54E+11	1.53E+10	4.29E+10	4.36E+09
5 Montour Run	803	Fecal Coliform	1.72E+11	1.37E+10	0.00E+00	0.00E+00
9 North Fork Pine Creek NPL	901	Fecal Coliform	1.00E+11	1.01E+10	2.02E+08	2.11E+07
9 North Fork Pine Creek NPL	902	Fecal Coliform	2.12E+11	1.30E+10	1.07E+11	6.81E+09
9 North Fork Pine Creek NPL	903	Fecal Coliform	4.50E+11	3.16E+10	1.56E+11	1.13E+10
6 Rinaman Run	1001	Fecal Coliform	1.34E+11	5.14E+09	2.57E+11	1.06E+10
7 Wexford Run	1101	Fecal Coliform	1.56E+08	0.00E+00	6.90E+10	2.85E+09
7 Wexford Run	1102	Fecal Coliform	2.66E+10	9.44E+08	4.98E+11	2.03E+10
1 Fish Run	1201	Fecal Coliform	8.26E+10	3.62E+09	3.82E+11	1.99E+10

Totals:	4.06E+12	3.79E+11	1.51E+13	1.14E+12
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5% explicit MOS (#/day)	TMDL (#/day)	% Red.	Comments
9.10E+08	1.82E+10	90%	
4.28E+07	8.56E+08	90%	
9.19E+07	1.84E+09	90%	
3.71E+07	5.03E+09	80%	
8.44E+08	1.76E+10	90%	
5.59E+07	4.53E+09	84%	
3.61E+08	7.23E+09	90%	
3.37E+07	6.74E+08	94%	
6.76E+06	1.35E+08	97%	
3.02E+08	6.04E+09	95%	
1.75E+09	3.50E+10	95%	
6.54E+08	1.31E+10	90%	
2.24E+09	4.49E+10	95%	
5.41E+08	3.50E+10	65%	
1.05E+09	2.10E+10	85%	
3.32E+09	6.64E+10	85%	
6.22E+07	1.24E+09	85%	
3.75E+08	7.50E+09	84%	
2.64E+08	5.28E+09	85%	
2.22E+08	4.99E+10	66%	
9.00E+08	1.80E+10	86%	
3.49E+10	6.98E+11	88%	
1.18E+09	2.35E+10	97%	
6.94E+08	1.39E+10	95%	
1.38E+08	2.76E+09	94%	
1.45E+09	2.91E+10	95%	
1.95E+07	3.90E+08	97%	
8.91E+07	1.89E+09	97%	
9.92E+08	1.98E+10	97%	
5.75E+08	1.15E+10	97%	This is the only watershed with an SSO (SSO22)
4.59E+08	2.36E+10	97%	

2.85E+08	5.70E+09	99%	
2.10E+08	4.20E+09	91%	
7.87E+08	1.57E+10	91%	
2.37E+08	4.74E+09	90%	
2.11E+09	4.21E+10	91%	
3.73E+08	7.47E+09	94%	
4.80E+08	9.61E+09	94%	
1.48E+08	2.97E+09	85%	
7.29E+08	1.46E+10	92%	
7.12E+08	1.42E+10	89%	
2.08E+08	7.19E+09	96%	
2.08E+09	4.17E+10	96%	
4.69E+08	9.38E+09	95%	
9.42E+08	1.88E+10	91%	
6.00E+08	1.20E+10	89%	
3.65E+08	7.30E+09	88%	
8.22E+08	1.64E+10	91%	
1.04E+09	2.07E+10	89%	
7.19E+08	1.44E+10	92%	No MS4 WLA component in this watershed
5.34E+08	1.07E+10	89%	
1.04E+09	2.09E+10	93%	
2.26E+09	4.52E+10	93%	
8.28E+08	1.66E+10	96%	
1.50E+08	3.00E+09	96%	
1.12E+09	2.24E+10	96%	
1.24E+09	2.47E+10	95%	

7.51E+10	1.60E+12
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	Area (ac)	Baseline Daily FC Load (#)	Reduced Daily FC Load (#)
Water	94	0.00E+00	0.00E+00
OpenSpace_Pervious	11,773	2.92E+10	2.92E+10
LIR_Pervious	5,546	3.31E+12	1.78E+11
MIR_Pervious	618	3.68E+11	2.01E+10
HIR_Pervious	73	4.93E+10	2.56E+09
Forest	17,405	2.02E+10	2.02E+10
Pasture	907	2.07E+12	1.50E+11
Cropland	472	7.83E+08	5.87E+07
Wetlands	18	5.85E+12	7.14E+11
OpenSpace_Impervious	1,308	7.99E+09	7.99E+09
LIR_Impervious	2,986	4.41E+12	2.36E+11
MIR_Impervious	1,147	1.70E+12	9.20E+10
HIR_Impervious	660	9.75E+11	5.05E+10
Totals:	43,006	1.88E+13	1.50E+12

Pine Creek Watershed Septic Load Reductions

Region	SWS	Baseline Load (#/day)	Reduced Load (#/day)	% Reduction	Comments
15 Pine Creek Lower Mainstem	1	2.52E+09	0.00E+00	100%	
15 Pine Creek Lower Mainstem	2	1.47E+08	0.00E+00	100%	
15 Pine Creek Lower Mainstem	3	0.00E+00	0.00E+00	-	
15 Pine Creek Lower Mainstem	4	0.00E+00	0.00E+00	-	
15 Pine Creek Lower Mainstem	5	1.19E+09	0.00E+00	100%	
15 Pine Creek Lower Mainstem	6	0.00E+00	0.00E+00	-	
15 Pine Creek Lower Mainstem	7	1.04E+09	0.00E+00	100%	
15 Pine Creek Lower Mainstem	8	3.88E+09	0.00E+00	100%	
15 Pine Creek Lower Mainstem	9	1.49E+09	0.00E+00	100%	
15 Pine Creek Lower Mainstem	10	7.61E+08	0.00E+00	100%	
16 Pine Creek Middle Mainstem	11	1.99E+10	0.00E+00	100%	
16 Pine Creek Middle Mainstem	12	3.46E+08	0.00E+00	100%	
16 Pine Creek Middle Mainstem	13	1.51E+10	0.00E+00	100%	
16 Pine Creek Middle Mainstem	14	3.75E+09	0.00E+00	100%	
16 Pine Creek Middle Mainstem	15	5.22E+09	0.00E+00	100%	
16 Pine Creek Middle Mainstem	16	1.76E+09	0.00E+00	100%	
17 Pine Creek Mainstem Below NPL	17	5.15E+08	0.00E+00	100%	
17 Pine Creek Mainstem Below NPL	18	4.32E+08	0.00E+00	100%	
17 Pine Creek Mainstem Below NPL	19	1.66E+08	0.00E+00	100%	
17 Pine Creek Mainstem Below NPL	20	2.33E+08	0.00E+00	100%	
17 Pine Creek Mainstem Below NPL	21	1.19E+09	0.00E+00	100%	
9 North Fork Pine Creek NPL	22	6.33E+09	0.00E+00	100%	
12 Pine Creek Headwaters	23	4.67E+09	0.00E+00	100%	
12 Pine Creek Headwaters	24	2.35E+09	0.00E+00	100%	
12 Pine Creek Headwaters	25	0.00E+00	0.00E+00	-	
12 Pine Creek Headwaters	26	6.02E+09	0.00E+00	100%	

10 West Little Pine	101	5.95E+08	0.00E+00	100%	
10 West Little Pine	102	0.00E+00	0.00E+00	-	
10 West Little Pine	103	6.14E+09	0.00E+00	100%	
10 West Little Pine	104	4.98E+08	0.00E+00	100%	
10 West Little Pine	105	5.16E+08	0.00E+00	100%	
10 West Little Pine	106	0.00E+00	0.00E+00	-	
11 East Little Pine	201	7.18E+09	0.00E+00	100%	
11 East Little Pine	202	2.61E+10	0.00E+00	100%	
11 East Little Pine	203	4.21E+09	0.00E+00	100%	
11 East Little Pine	204	0.00E+00	0.00E+00	-	
3 Gourdhead Run	301	2.08E+08	0.00E+00	100%	
4 Mccaslin Run	302	3.93E+08	0.00E+00	100%	
3 Gourdhead Run	303	5.12E+07	0.00E+00	100%	
3 Gourdhead Run	304	2.88E+08	0.00E+00	100%	
3 Gourdhead Run	305	4.19E+08	0.00E+00	100%	
14 Trib to Pine Creek	401	5.65E+09	0.00E+00	100%	
2 Crouse Run	501	1.30E+09	0.00E+00	100%	
13 Trib to Pine Creek	601	1.18E+09	0.00E+00	100%	
8 Willow Run	701	3.09E+08	0.00E+00	100%	
8 Willow Run	702	3.48E+08	0.00E+00	100%	
8 Willow Run	703	1.30E+08	0.00E+00	100%	
5 Montour Run	801	3.78E+08	0.00E+00	100%	
5 Montour Run	802	5.28E+09	0.00E+00	100%	
5 Montour Run	803	1.28E+09	0.00E+00	100%	
9 North Fork Pine Creek NPL	901	9.00E+08	0.00E+00	100%	
9 North Fork Pine Creek NPL	902	1.97E+09	0.00E+00	100%	
9 North Fork Pine Creek NPL	903	2.77E+09	0.00E+00	100%	
6 Rinaman Run	1001	5.84E+09	0.00E+00	100%	
7 Wexford Run	1101	1.56E+08	0.00E+00	100%	
7 Wexford Run	1102	2.31E+09	0.00E+00	100%	
1 Fish Run	1201	1.10E+10	0.00E+00	100%	

Pine Creek Watershed Landuse-based Load Reductions - Loads do not include 5% MO

Region	SWS	Allocation Unit	Open Space; Pervious			LIR; Pervious			M
			Baseline Load (#/day)	Reduced Load (#/day)	% Reduction	Baseline Load (#/day)	Reduced Load (#/day)	% Reduction	
15 Pine Creek Lower Mainstem	1								
15 Pine Creek Lower Mainstem	2								
15 Pine Creek Lower Mainstem	3								
15 Pine Creek Lower Mainstem	4								
15 Pine Creek Lower Mainstem	5								
15 Pine Creek Lower Mainstem	6								
15 Pine Creek Lower Mainstem	7								
15 Pine Creek Lower Mainstem	8								
15 Pine Creek Lower Mainstem	9								
15 Pine Creek Lower Mainstem	10								
16 Pine Creek Middle Mainstem	11								
16 Pine Creek Middle Mainstem	12								
16 Pine Creek Middle Mainstem	13								
16 Pine Creek Middle Mainstem	14								
16 Pine Creek Middle Mainstem	15								
16 Pine Creek Middle Mainstem	16								
17 Pine Creek Mainstem Below NPL	17								
17 Pine Creek Mainstem Below NPL	18								
17 Pine Creek Mainstem Below NPL	19								
17 Pine Creek Mainstem Below NPL	20								
17 Pine Creek Mainstem Below NPL	21	40	1.50E+06	1.50E+06	0%	7.72E+08	1.16E+08	85%	9.24E+07
9 North Fork Pine Creek NPL	22	36	1.08E+09	1.08E+09	0%	3.34E+10	4.01E+09	88%	1.68E+09
12 Pine Creek Headwaters	23	140	6.21E+07	6.21E+07	0%	5.98E+08	1.80E+07	97%	0.00E+00
12 Pine Creek Headwaters	24								
12 Pine Creek Headwaters	25								
12 Pine Creek Headwaters	26	131	2.45E+06	2.45E+06	0%	8.40E+08	4.20E+07	95%	2.72E+08

10 West Little Pine	101									
10 West Little Pine	102									
10 West Little Pine	103									
10 West Little Pine	104									
10 West Little Pine	105									
10 West Little Pine	106									
11 East Little Pine	201									
11 East Little Pine	202									
11 East Little Pine	203									
11 East Little Pine	204									
3 Gourdhead Run	301									
4 Mccaslin Run	302									
3 Gourdhead Run	303									
3 Gourdhead Run	304									
3 Gourdhead Run	305									
14 Trib to Pine Creek	401									
2 Crouse Run	501									
13 Trib to Pine Creek	601									
8 Willow Run	701	115	3.06E+07	3.06E+07	0%	1.73E+08	1.38E+07	92%	4.66E+07	
8 Willow Run	702	112	2.02E+08	2.02E+08	0%	4.42E+09	4.42E+08	90%	4.49E+07	
8 Willow Run	703									
5 Montour Run	801	108	9.00E+07	9.00E+07	0%	2.04E+09	1.64E+08	92%	1.44E+09	
5 Montour Run	802	103	5.30E+08	5.30E+08	0%	1.40E+10	1.40E+09	90%	1.23E+09	
5 Montour Run	803	109	1.62E+08	1.62E+08	0%	8.12E+09	6.50E+08	92%	6.83E+08	
9 North Fork Pine Creek NPL	901	98	2.47E+08	2.47E+08	0%	1.78E+10	1.78E+09	90%	5.98E+08	
9 North Fork Pine Creek NPL	902	96	5.73E+08	5.73E+08	0%	3.27E+10	1.96E+09	94%	7.63E+09	
9 North Fork Pine Creek NPL	903	100	9.20E+08	9.20E+08	0%	6.34E+10	4.44E+09	93%	5.86E+09	
6 Rinaman Run	1001	5	1.29E+08	1.29E+08	0%	1.14E+10	4.55E+08	96%	3.77E+09	
7 Wexford Run	1101									
7 Wexford Run	1102	33	1.39E+07	1.39E+07	0%	2.72E+09	1.09E+08	96%	1.46E+09	
1 Fish Run	1201	9	1.26E+08	1.26E+08	0%	1.49E+10	7.45E+08	95%	2.48E+09	

Pine Creek Watershed "Source X" Reductions

Region	SWS	Baseline Load (#/day)	Reduced Load (#/day)	% Reduction	Comments
15 Pine Creek Lower Mainstem	1				
15 Pine Creek Lower Mainstem	2				
15 Pine Creek Lower Mainstem	3				
15 Pine Creek Lower Mainstem	4				
15 Pine Creek Lower Mainstem	5				
15 Pine Creek Lower Mainstem	6				
15 Pine Creek Lower Mainstem	7				
15 Pine Creek Lower Mainstem	8				
15 Pine Creek Lower Mainstem	9				
15 Pine Creek Lower Mainstem	10				
16 Pine Creek Middle Mainstem	11				
16 Pine Creek Middle Mainstem	12				
16 Pine Creek Middle Mainstem	13				
16 Pine Creek Middle Mainstem	14				
16 Pine Creek Middle Mainstem	15				
16 Pine Creek Middle Mainstem	16				
17 Pine Creek Mainstem Below NPL	17				
17 Pine Creek Mainstem Below NPL	18				
17 Pine Creek Mainstem Below NPL	19				
17 Pine Creek Mainstem Below NPL	20	7.03E+10	0	100	
17 Pine Creek Mainstem Below NPL	21	6.81E+09	0	100	
9 North Fork Pine Creek NPL	22				
12 Pine Creek Headwaters	23				
12 Pine Creek Headwaters	24				
12 Pine Creek Headwaters	25				
12 Pine Creek Headwaters	26				
10 West Little Pine	101				
10 West Little Pine	102				
10 West Little Pine	103				
10 West Little Pine	104				
10 West Little Pine	105	2.06E+10	0	100	
10 West Little Pine	106				
11 East Little Pine	201				
11 East Little Pine	202				

11 East Little Pine	203				
11 East Little Pine	204				
3 Gourdhead Run	301				
4 Mccaslin Run	302				
3 Gourdhead Run	303				
3 Gourdhead Run	304				
3 Gourdhead Run	305				
14 Trib to Pine Creek	401				
2 Crouse Run	501				
13 Trib to Pine Creek	601				
8 Willow Run	701				
8 Willow Run	702				
8 Willow Run	703				
5 Montour Run	801				
5 Montour Run	802				
5 Montour Run	803				
9 North Fork Pine Creek NPL	901				
9 North Fork Pine Creek NPL	902				
9 North Fork Pine Creek NPL	903				
6 Rinaman Run	1001				
7 Wexford Run	1101				
7 Wexford Run	1102				
1 Fish Run	1201				

Pine Creek Watershed CSO and SSO Reductions

CSO/SSO	Region	SWS	PIPE	Baseline Load (avg #/day)	Reduced Load (avg #/day)	% Reduction
CSO1	15 Pine Creek Lower Mainstem	4		1.71E+10	4.29E+09	75%
CSO1A	15 Pine Creek Lower Mainstem	5		4.45E+08	1.11E+08	75%
CSO2	15 Pine Creek Lower Mainstem	5		0.00E+00	0.00E+00	0%
CSO3	15 Pine Creek Lower Mainstem	5		2.52E+09	6.30E+08	75%
CSO4	15 Pine Creek Lower Mainstem	6		1.27E+09	3.18E+08	75%
CSO5	15 Pine Creek Lower Mainstem	6		1.24E+10	3.09E+09	75%
CSO7	10 West Little Pine	102		4.52E+08	1.13E+08	75%
SSO22	10 West Little Pine	104		1.70E+09	0.00E+00	100%

SWS	CSOs and SSOs	Baseline Load (avg #/day)	Reduced Load (avg #/day)	% Reduction	
1					
2					
3					
4	CSO1	1.71E+10	4.29E+09	75%	
5	CSO1A, CSO2, CSO3	2.97E+09	7.41E+08	75%	
6	CSO4, CSO5	1.36E+10	3.41E+09	75%	
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					

20					
21					
22					
23					
24					
25					
26					
101					
102	CSO7	4.52E+08	1.13E+08	75%	
103					
104	SSO22	1.70E+09	0.00E+00	100%	
105					
106					
201					
202					
203					
204					
301					
302					
303					
304					
305					
401					
501					
601					
701					
702					
703					
801					
802					
803					
901					
902					
903					
1001					
1101					
1102					

1201					
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Pine Creek Watershed Permitted Facility Reductions

PERMIT	Region	SWS	PIPE	Baseline Load (#/day)	Baseline Concentration (#/100mL)	Reduced Load (#/day)	Reduced Concentration (#/100mL)	% Reduction	Comments
	15 Pine Creek Lower Mainstem	1							
	15 Pine Creek Lower Mainstem	2							
	15 Pine Creek Lower Mainstem	3							
	15 Pine Creek Lower Mainstem	4							
	15 Pine Creek Lower Mainstem	5							
	15 Pine Creek Lower Mainstem	6							
	15 Pine Creek Lower Mainstem	7							
	15 Pine Creek Lower Mainstem	8							
	15 Pine Creek Lower Mainstem	9							
	15 Pine Creek Lower Mainstem	10							
PA0003425	16 Pine Creek Middle Mainstem	11	001	3.52E+07	200	3.52E+07	200	0	
	16 Pine Creek Middle Mainstem	12							
	16 Pine Creek Middle Mainstem	13							
PA0043729	16 Pine Creek Middle Mainstem	14	001	2.42E+10	200	2.42E+10	200	0	
	16 Pine Creek Middle Mainstem	15							
	16 Pine Creek Middle Mainstem	16							
	17 Pine Creek Mainstem Below NPL	17							
	17 Pine Creek Mainstem Below NPL	18							
	17 Pine Creek Mainstem Below NPL	19							
PA0027669	17 Pine Creek Mainstem Below NPL	20	001	4.54E+10	200	4.54E+10	200	0	
	17 Pine Creek Mainstem Below NPL	21							
	9 North Fork Pine Creek NPL	22							
	12 Pine Creek Headwaters	23							
	12 Pine Creek Headwaters	24							
	12 Pine Creek Headwaters	25							
	12 Pine Creek Headwaters	26							
	10 West Little Pine	101							
	10 West Little Pine	102							
	10 West Little Pine	103							
	10 West Little Pine	104							
PA0025992	10 West Little Pine	105	001	1.44E+10	200	1.44E+10	200	0	
	10 West Little Pine	106							
	11 East Little Pine	201							
	11 East Little Pine	202							
	11 East Little Pine	203							
	11 East Little Pine	204							
	3 Gourdhead Run	301							
PA0000515	4 Mccaslin Run	302	001	6.06E+06	200	6.06E+06	200	0	
	3 Gourdhead Run	303							
	3 Gourdhead Run	304							
	3 Gourdhead Run	305							
PA0028177	14 Trib to Pine Creek	401	001	3.03E+09	200	3.03E+09	200	0	
	2 Crouse Run	501							
	13 Trib to Pine Creek	601							
	8 Willow Run	701							
	8 Willow Run	702							
PA0216143	8 Willow Run	703	001	3.03E+06	200	3.03E+06	200	0	
	5 Montour Run	801							
PA0205141	5 Montour Run	802	001	3.03E+06	200	3.03E+06	200	0	

	5 Montour Run	803							
	9 North Fork Pine Creek NPL	901							
	9 North Fork Pine Creek NPL	902							
	9 North Fork Pine Creek NPL	903							
	6 Rinaman Run	1001							
	7 Wexford Run	1101							
	7 Wexford Run	1102							
	1 Fish Run	1201							

Pine Creek Watershed - MS4 Reductions (Summary)

MS4 ENTITY	NPDES Permit	Baseline Load (#/day)	Reduced Load (#/day)	% Reduction
BRADFORD WOODS	PAG136263	3.08E+10	2.25E+09	93%
ETNA	PAG136269	3.81E+11	3.41E+10	91%
FOX CHAPEL	PAI136102	4.00E+09	6.36E+08	84%
FRANKLIN PARK	PAG136175	7.05E+11	3.81E+10	95%
HAMPTON	PAG136281	2.89E+12	2.57E+11	91%
INDIANA	PAI136101	3.86E+11	3.36E+10	91%
MARSHALL	PAG136306	2.30E+11	1.20E+10	95%
MCCANDLESS	PAG136140	6.12E+12	4.90E+11	92%
O HARA	PAI136128	9.67E+10	1.08E+10	89%
PINE	PAG136152	7.37E+11	4.67E+10	94%
RICHLAND	PAG136309	4.90E+11	3.67E+10	93%
ROSS	PAG136221	4.50E+11	1.01E+10	98%
SHALER	PAG136146	2.47E+12	1.30E+11	95%
SHARPSBURG		1.12E+10	1.12E+09	90%
			Average reduction:	92%

Pine Creek Watershed - MS4 Landuse-based loading (detail)

Region	SWS	Allocation Unit	MS4 ENTITY	Open Space Pervious	LIR Pervious	MIR Pervious
12 Pine Creek Headwaters	26	128	Bradfordwoods	5.12E+08	9.16E+09	9.50E+08
7 Wexford Run	1102	30	Bradfordwoods	1.69E+07	5.95E+08	0.00E+00
10 West Little Pine	101	70	Etna	5.48E+06	8.86E+08	6.20E+08
10 West Little Pine	102	72	Etna	2.60E+07	5.37E+09	5.02E+09
10 West Little Pine	103	66	Etna	0.00E+00	1.75E+08	0.00E+00
15 Pine Creek Lower Mainstem	1	83	Etna	1.06E+08	1.62E+10	9.46E+09
15 Pine Creek Lower Mainstem	2	86	Etna	2.43E+06	5.20E+08	1.87E+08
15 Pine Creek Lower Mainstem	3	77	Etna	0.00E+00	9.02E+07	7.77E+08
15 Pine Creek Lower Mainstem	4	80	Etna	0.00E+00	0.00E+00	5.01E+08
15 Pine Creek Lower Mainstem	5	74	Etna	1.58E+07	9.54E+09	8.91E+09
15 Pine Creek Lower Mainstem	6	69	Etna	5.09E+06	9.79E+08	8.79E+08
15 Pine Creek Lower Mainstem	7	118	Etna	2.08E+07	6.90E+09	3.86E+09
15 Pine Creek Lower Mainstem	10	116	Etna	0.00E+00	2.58E+08	1.20E+09
11 East Little Pine	202	16	Fox Chapel	4.41E+07	6.39E+08	0.00E+00
11 East Little Pine	203	22	Fox Chapel	9.93E+06	2.70E+08	0.00E+00
11 East Little Pine	204	12	Fox Chapel	5.29E+07	7.18E+08	0.00E+00
1 Fish Run	1201	6	Franklin Park	1.14E+09	1.40E+11	5.27E+09
12 Pine Creek Headwaters	24	135	Franklin Park	7.32E+07	9.28E+09	5.85E+08
12 Pine Creek Headwaters	26	129	Franklin Park	6.12E+08	9.82E+10	5.11E+09
7 Wexford Run	1102	31	Franklin Park	4.53E+07	7.14E+09	0.00E+00
10 West Little Pine	104	53	Hampton	0.00E+00	2.56E+08	0.00E+00
10 West Little Pine	105	89	Hampton	8.75E+07	1.16E+10	0.00E+00
11 East Little Pine	204	13	Hampton	1.78E+08	1.31E+10	2.46E+09
13 Trib to Pine Creek	601	45	Hampton	2.41E+08	6.17E+09	1.89E+09
14 Trib to Pine Creek	401	48	Hampton	2.79E+08	8.94E+09	1.06E+09
16 Pine Creek Middle Mainstem	13	57	Hampton	5.43E+08	7.62E+10	4.77E+09
16 Pine Creek Middle Mainstem	14	52	Hampton	1.28E+08	2.73E+10	1.66E+09
16 Pine Creek Middle Mainstem	15	50	Hampton	4.50E+08	4.64E+10	3.01E+09
16 Pine Creek Middle Mainstem	16	47	Hampton	1.27E+08	1.29E+10	1.04E+09
17 Pine Creek Mainstem Below NPL	17	43	Hampton	2.70E+07	2.52E+09	3.88E+08
17 Pine Creek Mainstem Below NPL	18	44	Hampton	2.23E+08	1.22E+10	9.69E+08
17 Pine Creek Mainstem Below NPL	19	42	Hampton	5.26E+07	4.04E+09	2.31E+09
17 Pine Creek Mainstem Below NPL	20	41	Hampton	6.62E+07	3.22E+09	1.55E+09
17 Pine Creek Mainstem Below NPL	21	37	Hampton	1.16E+08	1.81E+10	6.93E+08

2 Crouse Run	501	2	Hampton	1.69E+09	1.49E+11	3.02E+10
3 Gourdhead Run	301	123	Hampton	3.84E+08	4.15E+10	3.08E+09
3 Gourdhead Run	303	125	Hampton	4.86E+07	5.24E+09	1.29E+09
3 Gourdhead Run	304	124	Hampton	5.92E+08	3.69E+10	2.20E+09
3 Gourdhead Run	305	122	Hampton	8.20E+08	3.23E+10	1.07E+09
4 Mccaslin Run	302	10	Hampton	5.23E+08	4.33E+10	4.71E+09
5 Montour Run	801	106	Hampton	2.83E+08	1.26E+10	0.00E+00
8 Willow Run	701	114	Hampton	6.43E+08	4.60E+10	5.59E+09
11 East Little Pine	202	15	Indiana	1.30E+08	7.75E+09	3.93E+08
11 East Little Pine	203	20	Indiana	3.24E+07	1.53E+09	0.00E+00
11 East Little Pine	204	11	Indiana	7.24E+08	4.83E+10	4.35E+09
16 Pine Creek Middle Mainstem	11	61	Indiana	9.67E+07	1.24E+10	0.00E+00
16 Pine Creek Middle Mainstem	13	56	Indiana	5.58E+07	5.10E+09	0.00E+00
12 Pine Creek Headwaters	26	126	Marshall	4.54E+08	5.16E+10	3.08E+09
7 Wexford Run	1102	28	Marshall	1.04E+08	1.27E+10	3.66E+08
1 Fish Run	1201	8	McCandless	9.77E+05	0.00E+00	0.00E+00
10 West Little Pine	105	91	McCandless	5.77E+08	1.58E+11	1.28E+10
10 West Little Pine	106	88	McCandless	5.19E+08	1.10E+11	2.47E+10
12 Pine Creek Headwaters	23	139	McCandless	1.23E+09	2.00E+11	2.12E+10
12 Pine Creek Headwaters	24	137	McCandless	4.47E+08	6.09E+10	8.96E+09
12 Pine Creek Headwaters	25	134	McCandless	1.60E+08	1.63E+10	2.28E+08
12 Pine Creek Headwaters	26	130	McCandless	5.38E+07	8.32E+09	2.26E+08
13 Trib to Pine Creek	601	46	McCandless	2.12E+08	4.40E+10	4.38E+09
14 Trib to Pine Creek	401	49	McCandless	2.72E+08	5.61E+10	7.87E+08
16 Pine Creek Middle Mainstem	15	51	McCandless	1.01E+07	1.65E+09	0.00E+00
17 Pine Creek Mainstem Below NPL	21	39	McCandless	8.08E+07	1.41E+10	1.85E+09
5 Montour Run	801	107	McCandless	1.81E+07	1.16E+09	0.00E+00
6 Rinaman Run	1001	4	McCandless	4.40E+08	6.92E+10	5.94E+09
7 Wexford Run	1101	27	McCandless	1.57E+08	1.25E+10	3.98E+09
7 Wexford Run	1102	32	McCandless	1.96E+08	2.80E+10	5.44E+09
9 North Fork Pine Creek NPL	22	35	McCandless	3.24E+08	3.62E+10	2.75E+09
11 East Little Pine	201	24	O'Hara	2.85E+07	6.30E+08	0.00E+00
11 East Little Pine	202	18	O'Hara	2.72E+08	2.21E+10	1.38E+09
11 East Little Pine	203	23	O'Hara	1.16E+08	7.66E+09	6.31E+08
15 Pine Creek Lower Mainstem	5	75	O'Hara	5.92E+06	5.25E+08	0.00E+00
16 Pine Creek Middle Mainstem	11	62	O'Hara	1.03E+06	4.51E+08	0.00E+00
12 Pine Creek Headwaters	23	138	Pine	1.59E+07	5.98E+08	0.00E+00

12 Pine Creek Headwaters	26	127	Pine	4.89E+06	0.00E+00	0.00E+00
5 Montour Run	801	104	Pine	1.80E+08	2.55E+10	6.70E+08
5 Montour Run	802	101	Pine	1.67E+08	1.07E+10	1.69E+09
6 Rinaman Run	1001	3	Pine	6.00E+06	8.55E+08	5.06E+08
7 Wexford Run	1102	29	Pine	6.05E+08	6.24E+10	1.53E+10
9 North Fork Pine Creek NPL	22	34	Pine	9.22E+07	8.06E+09	0.00E+00
9 North Fork Pine Creek NPL	901	97	Pine	1.50E+06	8.54E+07	0.00E+00
9 North Fork Pine Creek NPL	902	95	Pine	4.23E+08	2.33E+10	3.39E+09
9 North Fork Pine Creek NPL	903	99	Pine	4.30E+08	3.81E+10	4.32E+09
2 Crouse Run	501	1	Richland	4.75E+08	3.17E+10	1.06E+10
5 Montour Run	801	105	Richland	3.14E+08	7.82E+09	2.73E+09
5 Montour Run	802	102	Richland	6.35E+06	1.69E+08	0.00E+00
8 Willow Run	701	113	Richland	7.50E+08	1.92E+10	1.77E+09
8 Willow Run	702	111	Richland	3.59E+08	1.94E+10	2.07E+09
8 Willow Run	703	110	Richland	6.42E+08	1.59E+10	7.64E+08
10 West Little Pine	103	67	Ross	1.49E+06	1.40E+09	0.00E+00
10 West Little Pine	104	54	Ross	3.58E+08	6.62E+10	2.25E+09
10 West Little Pine	105	93	Ross	3.65E+08	7.90E+10	4.05E+09
10 West Little Pine	101	71	Shaler	1.79E+07	1.77E+09	0.00E+00
10 West Little Pine	102	73	Shaler	2.91E+07	4.14E+09	3.32E+08
10 West Little Pine	103	68	Shaler	7.39E+08	2.14E+11	1.64E+10
10 West Little Pine	104	55	Shaler	1.66E+08	5.40E+10	9.20E+08
10 West Little Pine	105	94	Shaler	1.11E+07	2.53E+09	1.36E+08
11 East Little Pine	201	26	Shaler	1.00E+08	1.06E+10	1.60E+09
11 East Little Pine	202	19	Shaler	4.83E+07	1.35E+10	0.00E+00
15 Pine Creek Lower Mainstem	1	84	Shaler	7.37E+07	2.07E+10	2.10E+09
15 Pine Creek Lower Mainstem	3	78	Shaler	3.52E+06	9.02E+07	0.00E+00
15 Pine Creek Lower Mainstem	4	81	Shaler	0.00E+00	1.69E+08	0.00E+00
15 Pine Creek Lower Mainstem	5	76	Shaler	1.20E+08	1.58E+10	1.55E+09
15 Pine Creek Lower Mainstem	7	119	Shaler	7.42E+06	2.97E+09	1.51E+09
15 Pine Creek Lower Mainstem	8	120	Shaler	3.03E+06	2.68E+08	9.63E+08
15 Pine Creek Lower Mainstem	9	121	Shaler	1.39E+06	3.24E+08	2.62E+08
15 Pine Creek Lower Mainstem	10	117	Shaler	4.74E+07	1.84E+10	8.04E+09
16 Pine Creek Middle Mainstem	11	64	Shaler	6.45E+08	1.87E+11	2.06E+10
16 Pine Creek Middle Mainstem	12	65	Shaler	1.97E+08	2.97E+10	3.33E+09
16 Pine Creek Middle Mainstem	13	60	Shaler	7.63E+08	2.15E+11	1.55E+10
15 Pine Creek Lower Mainstem	3	79	Sharpsburg	0.00E+00	9.92E+08	8.25E+08

15 Pine Creek Lower Mainstem	4	82	Sharpsburg	0.00E+00	1.69E+08	4.56E+07
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Baseline Condition (#/day)										Re	
HIR Pervious	Forest	Pasture	Cropland	Wetlands	Open Space Impervious	LIR Impervious	MIR Impervious	HIR Impervious	SUM	Open Space Pervious	LIR Pervious
7.37E+07	8.61E+07	0.00E+00	2.16E+06	0.00E+00	1.40E+08	1.25E+10	4.47E+09	1.47E+09	2.94E+10	5.12E+08	4.58E+08
0.00E+00	1.48E+06	0.00E+00	0.00E+00	0.00E+00	4.58E+06	8.03E+08	0.00E+00	0.00E+00	1.42E+09	16908414.5	23788969
1.08E+08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E+06	1.16E+09	2.81E+09	2.09E+09	7.69E+09	5.48E+06	2.66E+07
1.07E+08	2.80E+05	0.00E+00	0.00E+00	0.00E+00	7.14E+06	7.09E+09	2.29E+10	2.09E+09	4.26E+10	2.60E+07	1.61E+08
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E+08	0.00E+00	0.00E+00	4.07E+08	0.00E+00	5.26E+06
1.50E+09	1.32E+07	0.00E+00	0.00E+00	0.00E+00	2.92E+07	2.12E+10	4.26E+10	2.92E+10	1.20E+11	1.06E+08	1.62E+09
3.01E+08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E+05	6.96E+08	8.62E+08	5.96E+09	8.53E+09	2.43E+06	5.20E+07
1.56E+08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E+08	3.45E+09	2.99E+09	7.58E+09	0.00E+00	9.02E+06
1.63E+08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E+09	3.30E+09	6.34E+09	0.00E+00	0.00E+00
2.29E+09	8.89E+06	0.00E+00	0.00E+00	0.00E+00	4.42E+06	1.27E+10	4.09E+10	4.49E+10	1.19E+11	1.58E+07	9.54E+08
2.88E+08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E+06	1.40E+09	4.34E+09	6.01E+09	1.39E+10	5.09E+06	7.83E+07
4.40E+08	3.99E+06	0.00E+00	0.00E+00	0.00E+00	5.78E+06	9.19E+09	1.77E+10	8.67E+09	4.68E+10	2.08E+07	6.90E+08
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.48E+08	5.61E+09	0.00E+00	7.41E+09	0.00E+00	1.29E+07
0.00E+00	3.71E+07	0.00E+00	0.00E+00	0.00E+00	1.16E+07	8.09E+08	0.00E+00	0.00E+00	1.54E+09	4.41E+07	6.39E+07
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E+06	3.46E+08	0.00E+00	0.00E+00	6.29E+08	9.93E+06	2.70E+07
0.00E+00	1.26E+08	0.00E+00	0.00E+00	0.00E+00	1.42E+07	9.21E+08	0.00E+00	0.00E+00	1.83E+09	5.29E+07	5.74E+07
3.68E+08	4.50E+08	8.96E+09	0.00E+00	0.00E+00	3.19E+08	1.93E+11	2.52E+10	7.44E+09	3.82E+11	1144054262	6.98E+09
0.00E+00	1.10E+07	5.46E+09	0.00E+00	0.00E+00	2.03E+07	1.27E+10	2.77E+09	0.00E+00	3.09E+10	7.32E+07	4.64E+08
3.24E+08	2.99E+08	5.47E+09	3.07E+07	0.00E+00	1.68E+08	1.34E+11	2.41E+10	6.49E+09	2.75E+11	6.12E+08	4.91E+09
0.00E+00	7.40E+05	0.00E+00	0.00E+00	0.00E+00	1.22E+07	9.63E+09	0.00E+00	0.00E+00	1.68E+10	45254874	2.85E+08
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E+08	0.00E+00	0.00E+00	6.03E+08	0.00E+00	7.69E+06
0.00E+00	4.57E+06	0.00E+00	0.00E+00	0.00E+00	2.45E+07	1.58E+10	0.00E+00	0.00E+00	2.75E+10	8.75E+07	1.16E+08
2.01E+08	4.63E+08	1.58E+11	7.50E+07	0.00E+00	4.76E+07	1.68E+10	1.09E+10	3.85E+09	2.06E+11	1.78E+08	1.05E+09
0.00E+00	1.59E+08	3.52E+09	0.00E+00	0.00E+00	6.57E+07	8.23E+09	8.70E+09	0.00E+00	2.90E+10	2.41E+08	3.09E+08
0.00E+00	6.53E+07	2.53E+09	0.00E+00	0.00E+00	7.60E+07	1.19E+10	4.88E+09	0.00E+00	2.97E+10	2.79E+08	1.79E+08
6.62E+08	2.03E+08	2.03E+10	1.50E+07	0.00E+00	1.46E+08	9.88E+10	2.13E+10	1.28E+10	2.36E+11	5.43E+08	3.81E+09
0.00E+00	2.89E+06	0.00E+00	0.00E+00	0.00E+00	3.32E+07	3.47E+10	7.28E+09	0.00E+00	7.11E+10	1.28E+08	4.10E+09
0.00E+00	2.61E+08	1.03E+10	0.00E+00	0.00E+00	1.16E+08	5.82E+10	1.30E+10	0.00E+00	1.32E+11	4.50E+08	6.96E+09
0.00E+00	8.54E+07	0.00E+00	0.00E+00	4.07E+11	3.22E+07	1.61E+10	4.49E+09	0.00E+00	4.42E+11	1.27E+08	1.94E+09
0.00E+00	3.10E+07	0.00E+00	0.00E+00	0.00E+00	7.10E+06	3.23E+09	1.72E+09	0.00E+00	7.92E+09	2.70E+07	3.78E+08
1.51E+07	3.23E+08	1.16E+10	0.00E+00	0.00E+00	6.11E+07	1.64E+10	4.50E+09	2.97E+08	4.66E+10	2.23E+08	1.82E+09
5.81E+08	4.32E+06	0.00E+00	0.00E+00	0.00E+00	1.46E+07	5.49E+09	1.08E+10	1.15E+10	3.48E+10	5.26E+07	6.07E+08
3.57E+08	5.20E+07	5.03E+09	0.00E+00	0.00E+00	1.80E+07	4.34E+09	7.21E+09	7.04E+09	2.89E+10	6.62E+07	4.83E+08
2.84E+08	2.00E+08	1.37E+10	0.00E+00	0.00E+00	3.14E+07	2.40E+10	3.17E+09	5.57E+09	6.59E+10	1.16E+08	2.72E+09

5.48E+09	8.36E+08	5.00E+10	7.69E+06	0.00E+00	4.72E+08	2.04E+11	1.43E+11	1.10E+11	6.95E+11	1.69E+09	5.94E+09
7.59E+07	9.96E+07	0.00E+00	1.44E+07	0.00E+00	1.03E+08	5.46E+10	1.40E+10	1.49E+09	1.15E+11	3.84E+08	2.49E+09
0.00E+00	4.40E+07	0.00E+00	0.00E+00	0.00E+00	1.27E+07	6.78E+09	5.76E+09	0.00E+00	1.92E+10	4.86E+07	7.86E+08
3.86E+08	4.09E+08	8.45E+10	1.82E+07	0.00E+00	1.62E+08	4.99E+10	1.02E+10	7.68E+09	1.93E+11	5.92E+08	2.59E+09
0.00E+00	2.96E+08	4.75E+10	2.27E+07	0.00E+00	2.22E+08	4.33E+10	4.94E+09	0.00E+00	1.30E+11	8.20E+08	3.23E+09
2.12E+08	2.70E+08	4.16E+10	0.00E+00	0.00E+00	1.41E+08	5.77E+10	2.16E+10	4.15E+09	1.74E+11	5.23E+08	2.17E+09
0.00E+00	3.61E+08	2.28E+10	1.09E+07	0.00E+00	7.42E+07	1.63E+10	0.00E+00	0.00E+00	5.24E+10	2.83E+08	1.01E+09
2.40E+08	3.56E+08	5.64E+09	1.14E+06	0.00E+00	1.73E+08	6.08E+10	2.55E+10	4.71E+09	1.50E+11	6.43E+08	3.68E+09
0.00E+00	1.01E+08	2.09E+10	1.08E+07	0.00E+00	3.41E+07	9.82E+09	1.72E+09	0.00E+00	4.08E+10	1.30E+08	7.75E+08
0.00E+00	5.96E+07	1.87E+10	1.07E+07	0.00E+00	8.51E+06	1.96E+09	0.00E+00	0.00E+00	2.23E+10	3.24E+07	1.53E+08
4.17E+08	1.38E+09	1.38E+11	5.27E+07	0.00E+00	1.94E+08	6.20E+10	1.92E+10	8.00E+09	2.82E+11	7.24E+08	3.86E+09
0.00E+00	5.70E+07	0.00E+00	0.00E+00	0.00E+00	2.57E+07	1.59E+10	0.00E+00	0.00E+00	2.85E+10	9.67E+07	6.22E+08
0.00E+00	2.13E+07	0.00E+00	0.00E+00	0.00E+00	1.50E+07	6.62E+09	0.00E+00	0.00E+00	1.18E+10	5.58E+07	2.55E+08
0.00E+00	9.69E+07	5.67E+10	6.53E+07	0.00E+00	1.25E+08	7.04E+10	1.45E+10	0.00E+00	1.97E+11	4.54E+08	2.58E+09
0.00E+00	8.64E+06	1.01E+09	0.00E+00	0.00E+00	2.81E+07	1.72E+10	1.70E+09	0.00E+00	3.32E+10	103937018	5.1E+08
0.00E+00	4.99E+05	0.00E+00	0.00E+00	0.00E+00	2.72E+05	0.00E+00	0.00E+00	0.00E+00	1.75E+06	976989.122	0
1.32E+09	5.41E+07	4.22E+10	0.00E+00	0.00E+00	1.61E+08	2.15E+11	5.99E+10	2.62E+10	5.16E+11	5.77E+08	1.58E+09
1.70E+09	1.85E+08	5.46E+10	0.00E+00	0.00E+00	1.43E+08	1.47E+11	1.13E+11	3.34E+10	4.86E+11	5.19E+08	1.10E+09
2.97E+09	5.04E+08	5.82E+10	1.94E+07	0.00E+00	3.34E+08	2.67E+11	9.76E+10	5.87E+10	7.07E+11	1.23E+09	5.99E+09
1.08E+09	2.78E+08	8.93E+09	0.00E+00	0.00E+00	1.24E+08	8.36E+10	4.24E+10	2.18E+10	2.29E+11	4.47E+08	3.04E+09
0.00E+00	8.03E+07	9.59E+09	0.00E+00	0.00E+00	4.37E+07	2.23E+10	1.07E+09	0.00E+00	4.98E+10	1.60E+08	8.17E+08
0.00E+00	1.51E+07	2.49E+09	7.21E+06	0.00E+00	1.48E+07	1.14E+10	1.06E+09	0.00E+00	2.35E+10	5.38E+07	4.16E+08
7.03E+08	1.38E+08	0.00E+00	9.04E+06	0.00E+00	5.80E+07	5.86E+10	2.02E+10	1.38E+10	1.42E+11	2.12E+08	2.20E+09
1.50E+08	4.30E+07	0.00E+00	0.00E+00	0.00E+00	7.42E+07	7.46E+10	3.61E+09	2.94E+09	1.39E+11	2.72E+08	1.12E+09
0.00E+00	1.76E+06	0.00E+00	0.00E+00	0.00E+00	2.59E+06	2.07E+09	0.00E+00	0.00E+00	3.74E+09	1.01E+07	2.48E+08
0.00E+00	1.42E+08	5.08E+09	0.00E+00	0.00E+00	2.18E+07	1.87E+10	8.46E+09	0.00E+00	4.84E+10	8.08E+07	2.11E+09
0.00E+00	9.59E+06	0.00E+00	0.00E+00	0.00E+00	4.75E+06	1.49E+09	0.00E+00	0.00E+00	2.68E+09	1.81E+07	9.24E+07
1.70E+09	3.30E+08	1.73E+10	7.03E+06	0.00E+00	1.19E+08	9.29E+10	2.75E+10	3.37E+10	2.49E+11	440270084	2.77E+09
7.64E+08	4.91E+07	0.00E+00	0.00E+00	0.00E+00	4.31E+07	1.72E+10	1.89E+10	1.54E+10	6.90E+10	156539286	5E+08
9.11E+08	1.36E+08	0.00E+00	1.20E+07	0.00E+00	5.32E+07	3.78E+10	2.53E+10	1.80E+10	1.16E+11	196435992	1.12E+09
7.47E+07	3.41E+08	3.09E+10	1.89E+06	3.20E+12	8.66E+07	4.77E+10	1.25E+10	1.47E+09	3.34E+12	3.24E+08	4.35E+09
0.00E+00	7.25E+07	0.00E+00	0.00E+00	0.00E+00	7.71E+06	8.13E+08	0.00E+00	0.00E+00	1.55E+09	2.85E+07	6.30E+07
0.00E+00	5.89E+08	1.34E+10	0.00E+00	0.00E+00	7.14E+07	2.80E+10	6.01E+09	0.00E+00	7.17E+10	2.72E+08	2.21E+09
0.00E+00	1.18E+08	0.00E+00	0.00E+00	0.00E+00	3.06E+07	9.79E+09	2.78E+09	0.00E+00	2.11E+10	1.16E+08	7.66E+08
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E+06	6.99E+08	0.00E+00	0.00E+00	1.23E+09	5.92E+06	5.25E+07
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E+05	5.75E+08	0.00E+00	0.00E+00	1.03E+09	1.03E+06	2.25E+07
0.00E+00	6.65E+06	0.00E+00	3.66E+05	0.00E+00	4.31E+06	7.99E+08	0.00E+00	0.00E+00	1.43E+09	1.59E+07	1.80E+07

0.00E+00	2.40E+05	0.00E+00	0.00E+00	0.00E+00	1.34E+06	0.00E+00	0.00E+00	0.00E+00	6.47E+06	4.89E+06	0.00E+00
0.00E+00	2.11E+08	9.52E+09	7.01E+06	0.00E+00	4.72E+07	3.29E+10	2.98E+09	0.00E+00	7.20E+10	1.80E+08	2.04E+09
0.00E+00	9.64E+07	7.45E+09	0.00E+00	0.00E+00	4.63E+07	1.45E+10	7.91E+09	0.00E+00	4.25E+10	1.67E+08	1.07E+09
1.49E+08	1.55E+06	0.00E+00	0.00E+00	0.00E+00	1.62E+06	1.15E+09	2.35E+09	2.95E+09	7.96E+09	6003682.96	34194686
1.33E+09	1.82E+08	6.88E+10	1.13E+07	0.00E+00	1.64E+08	8.43E+10	7.13E+10	2.62E+10	3.31E+11	604724470	2.5E+09
0.00E+00	1.54E+07	0.00E+00	3.02E+06	0.00E+00	2.46E+07	1.06E+10	0.00E+00	0.00E+00	1.88E+10	9.22E+07	9.67E+08
0.00E+00	2.61E+05	0.00E+00	0.00E+00	0.00E+00	4.04E+05	1.15E+08	0.00E+00	0.00E+00	2.02E+08	1.50E+06	8.54E+06
1.77E+08	2.22E+08	2.80E+10	1.14E+07	0.00E+00	1.18E+08	3.21E+10	1.61E+10	3.53E+09	1.07E+11	4.23E+08	1.40E+09
0.00E+00	5.59E+08	4.02E+10	3.06E+07	0.00E+00	1.19E+08	5.16E+10	2.01E+10	0.00E+00	1.56E+11	429790733	2.67E+09
5.67E+09	1.83E+08	0.00E+00	0.00E+00	0.00E+00	1.33E+08	4.36E+10	5.02E+10	1.14E+11	2.57E+11	4.75E+08	1.27E+09
0.00E+00	4.66E+08	0.00E+00	5.06E+06	0.00E+00	8.23E+07	1.01E+10	1.21E+10	0.00E+00	3.36E+10	3.14E+08	6.26E+08
0.00E+00	9.26E+06	0.00E+00	0.00E+00	0.00E+00	1.76E+06	2.30E+08	0.00E+00	0.00E+00	4.17E+08	6.35E+06	1.69E+07
0.00E+00	3.77E+08	0.00E+00	7.59E+05	0.00E+00	2.02E+08	2.54E+10	8.08E+09	0.00E+00	5.58E+10	7.50E+08	1.54E+09
0.00E+00	2.67E+08	2.62E+10	2.82E+07	0.00E+00	1.02E+08	2.67E+10	9.79E+09	0.00E+00	8.50E+10	3.59E+08	1.94E+09
0.00E+00	1.54E+08	1.52E+10	0.00E+00	0.00E+00	1.82E+08	2.19E+10	3.62E+09	0.00E+00	5.84E+10	6.42E+08	1.75E+09
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E+05	1.85E+09	0.00E+00	0.00E+00	3.26E+09	1.49E+06	4.21E+07
1.74E+09	1.09E+08	1.78E+10	0.00E+00	0.00E+00	1.00E+08	8.97E+10	1.05E+10	3.48E+10	2.24E+11	3.58E+08	1.99E+09
6.52E+08	5.84E+07	0.00E+00	0.00E+00	0.00E+00	1.02E+08	1.07E+11	1.89E+10	1.29E+10	2.23E+11	3.65E+08	7.90E+08
0.00E+00	6.93E+06	0.00E+00	0.00E+00	0.00E+00	4.97E+06	2.33E+09	0.00E+00	0.00E+00	4.13E+09	1.79E+07	5.32E+07
0.00E+00	2.94E+07	2.04E+09	0.00E+00	0.00E+00	7.97E+06	5.46E+09	1.51E+09	0.00E+00	1.35E+10	2.91E+07	1.24E+08
1.01E+09	3.21E+08	7.07E+09	0.00E+00	0.00E+00	2.05E+08	2.83E+11	7.46E+10	1.97E+10	6.17E+11	7.39E+08	6.42E+09
0.00E+00	3.28E+07	0.00E+00	0.00E+00	0.00E+00	4.67E+07	7.31E+10	4.30E+09	0.00E+00	1.33E+11	1.66E+08	1.62E+09
0.00E+00	1.75E+07	0.00E+00	0.00E+00	0.00E+00	3.11E+06	3.43E+09	6.37E+08	0.00E+00	6.77E+09	1.11E+07	2.53E+07
2.01E+08	1.11E+08	0.00E+00	0.00E+00	0.00E+00	2.71E+07	1.37E+10	7.12E+09	3.88E+09	3.74E+10	1.00E+08	1.06E+09
0.00E+00	5.64E+07	0.00E+00	0.00E+00	0.00E+00	1.27E+07	1.71E+10	0.00E+00	0.00E+00	3.07E+10	4.83E+07	1.35E+09
0.00E+00	9.63E+06	0.00E+00	0.00E+00	0.00E+00	2.04E+07	2.70E+10	9.47E+09	0.00E+00	5.94E+10	7.37E+07	2.07E+09
0.00E+00	2.22E+06	0.00E+00	0.00E+00	0.00E+00	9.69E+05	1.16E+08	0.00E+00	0.00E+00	2.13E+08	3.52E+06	9.02E+06
0.00E+00	5.13E+05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E+08	0.00E+00	0.00E+00	4.03E+08	0.00E+00	1.69E+07
0.00E+00	8.57E+07	0.00E+00	0.00E+00	0.00E+00	3.36E+07	2.11E+10	7.14E+09	0.00E+00	4.59E+10	1.20E+08	1.58E+09
4.56E+08	3.35E+07	0.00E+00	0.00E+00	0.00E+00	2.07E+06	3.95E+09	6.91E+09	8.97E+09	2.48E+10	7.42E+06	2.97E+08
3.10E+07	1.81E+07	0.00E+00	0.00E+00	0.00E+00	8.23E+05	3.49E+08	4.31E+09	5.97E+08	6.55E+09	3.03E+06	2.68E+07
1.42E+07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E+05	4.67E+08	1.30E+09	3.00E+08	2.67E+09	1.39E+06	1.62E+07
1.09E+09	2.62E+07	0.00E+00	0.00E+00	0.00E+00	1.34E+07	2.49E+10	3.75E+10	2.18E+10	1.12E+11	4.74E+07	9.19E+08
4.40E+09	4.59E+08	1.63E+10	0.00E+00	0.00E+00	1.71E+08	2.38E+11	9.07E+10	8.40E+10	6.42E+11	6.45E+08	9.33E+09
1.04E+09	6.55E+07	2.08E+10	0.00E+00	0.00E+00	5.29E+07	3.81E+10	1.48E+10	1.98E+10	1.28E+11	1.97E+08	2.97E+09
1.16E+09	2.33E+08	4.16E+09	0.00E+00	0.00E+00	2.05E+08	2.79E+11	6.94E+10	2.24E+10	6.08E+11	7.63E+08	1.08E+10
1.87E+08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E+09	3.67E+09	3.58E+09	1.05E+10	0.00E+00	9.92E+07

0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E+08	2.16E+08	0.00E+00	6.64E+08	0.00E+00	1.69E+07
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Reduced Condition (#/day) - Calculations do not include 5% MOS

MIR Pervious	HIR Pervious	Forest	Pasture	Cropland	Wetlands	Open Space Impervious	LIR Impervious	MIR Impervious	HIR Impervious	SUM
4.75E+07	3.68E+06	8.61E+07	0.00E+00	1.08E+05	0.00E+00	1.40E+08	6.25E+08	2.24E+08	7.37E+07	2.17E+09
0	0	1480626	0	0	0	4576466.87	32105457	0	0	78859933
1.86E+07	3.24E+06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E+06	3.49E+07	8.43E+07	6.28E+07	2.37E+08
1.51E+08	3.20E+06	2.80E+05	0.00E+00	0.00E+00	0.00E+00	7.14E+06	2.13E+08	6.86E+08	6.28E+07	1.31E+09
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.95E+06	0.00E+00	0.00E+00	1.22E+07
9.46E+08	1.50E+08	1.32E+07	0.00E+00	0.00E+00	0.00E+00	2.92E+07	2.12E+09	4.26E+09	2.92E+09	1.22E+10
1.87E+07	3.01E+07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E+05	6.96E+07	8.62E+07	5.96E+08	8.56E+08
7.77E+07	1.56E+07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E+07	3.45E+08	2.99E+08	7.58E+08
5.01E+07	1.63E+07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E+08	3.30E+08	6.34E+08
8.91E+08	2.29E+08	8.89E+06	0.00E+00	0.00E+00	0.00E+00	4.42E+06	1.27E+09	4.09E+09	4.49E+09	1.20E+10
7.03E+07	2.30E+07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E+06	1.12E+08	3.47E+08	4.81E+08	1.12E+09
3.86E+08	4.40E+07	3.99E+06	0.00E+00	0.00E+00	0.00E+00	5.78E+06	9.19E+08	1.77E+09	8.67E+08	4.71E+09
6.01E+07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E+07	2.80E+08	0.00E+00	3.71E+08
0.00E+00	0.00E+00	3.71E+07	0.00E+00	0.00E+00	0.00E+00	1.16E+07	8.09E+07	0.00E+00	0.00E+00	2.38E+08
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.61E+06	3.46E+07	0.00E+00	0.00E+00	7.41E+07
0.00E+00	0.00E+00	1.26E+08	0.00E+00	0.00E+00	0.00E+00	1.42E+07	7.37E+07	0.00E+00	0.00E+00	3.25E+08
2.64E+08	18411214	4.5E+08	4.48E+08	0	0	318561338	9.661E+09	1.258E+09	372099255	2.09E+10
2.93E+07	0.00E+00	1.10E+07	2.73E+08	0.00E+00	0.00E+00	2.03E+07	6.37E+08	1.39E+08	0.00E+00	1.65E+09
2.56E+08	1.62E+07	2.99E+08	2.74E+08	1.53E+06	0.00E+00	1.68E+08	6.70E+09	1.20E+09	3.24E+08	1.48E+10
0	0	740312.8	0	0	0	12248779	385265483	0	0	7.29E+08
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E+07	0.00E+00	0.00E+00	1.81E+07
0.00E+00	0.00E+00	4.57E+06	0.00E+00	0.00E+00	0.00E+00	2.45E+07	1.58E+08	0.00E+00	0.00E+00	3.91E+08
1.97E+08	1.60E+07	4.63E+08	1.26E+10	6.00E+06	0.00E+00	4.76E+07	1.35E+09	8.73E+08	3.08E+08	1.71E+10
9.46E+07	0.00E+00	1.59E+08	1.76E+08	0.00E+00	0.00E+00	6.57E+07	4.11E+08	4.35E+08	0.00E+00	1.89E+09
2.13E+07	0.00E+00	6.53E+07	5.07E+07	0.00E+00	0.00E+00	7.60E+07	2.38E+08	9.76E+07	0.00E+00	1.01E+09
2.39E+08	3.31E+07	2.03E+08	1.01E+09	7.50E+05	0.00E+00	1.46E+08	4.94E+09	1.07E+09	6.42E+08	1.26E+10
2.49E+08	0.00E+00	2.89E+06	0.00E+00	0.00E+00	0.00E+00	3.32E+07	5.21E+09	1.09E+09	0.00E+00	1.08E+10
4.52E+08	0.00E+00	2.61E+08	1.55E+09	0.00E+00	0.00E+00	1.16E+08	8.73E+09	1.95E+09	0.00E+00	2.05E+10
1.56E+08	0.00E+00	8.54E+07	0.00E+00	0.00E+00	6.10E+10	3.22E+07	2.42E+09	6.74E+08	0.00E+00	6.64E+10
5.81E+07	0.00E+00	3.10E+07	0.00E+00	0.00E+00	0.00E+00	7.10E+06	4.85E+08	2.57E+08	0.00E+00	1.24E+09
1.45E+08	2.26E+06	3.23E+08	1.74E+09	0.00E+00	0.00E+00	6.11E+07	2.46E+09	6.76E+08	4.45E+07	7.50E+09
3.47E+08	8.72E+07	4.32E+06	0.00E+00	0.00E+00	0.00E+00	1.46E+07	8.24E+08	1.63E+09	1.72E+09	5.28E+09
2.33E+08	5.36E+07	5.20E+07	7.54E+08	0.00E+00	0.00E+00	1.80E+07	6.51E+08	1.08E+09	1.06E+09	4.45E+09
1.04E+08	4.26E+07	2.00E+08	2.06E+09	0.00E+00	0.00E+00	3.14E+07	3.61E+09	4.76E+08	8.35E+08	1.02E+10

1.21E+09	2.19E+08	8.36E+08	2.00E+09	3.07E+05	0.00E+00	4.72E+08	8.17E+09	5.72E+09	4.41E+09	3.07E+10
1.85E+08	4.55E+06	9.96E+07	0.00E+00	8.64E+05	0.00E+00	1.03E+08	3.27E+09	8.37E+08	8.92E+07	7.47E+09
1.94E+08	0.00E+00	4.40E+07	0.00E+00	0.00E+00	0.00E+00	1.27E+07	1.02E+09	8.64E+08	0.00E+00	2.97E+09
1.54E+08	2.70E+07	4.09E+08	5.91E+09	1.27E+06	0.00E+00	1.62E+08	3.49E+09	7.17E+08	5.38E+08	1.46E+10
1.07E+08	0.00E+00	2.96E+08	4.75E+09	2.27E+06	0.00E+00	2.22E+08	4.33E+09	4.94E+08	0.00E+00	1.42E+10
2.36E+08	1.06E+07	2.70E+08	2.08E+09	0.00E+00	0.00E+00	1.41E+08	2.88E+09	1.08E+09	2.08E+08	9.60E+09
0.00E+00	0.00E+00	3.61E+08	1.82E+09	8.72E+05	0.00E+00	7.42E+07	1.30E+09	0.00E+00	0.00E+00	4.85E+09
4.47E+08	1.92E+07	3.56E+08	4.51E+08	9.10E+04	0.00E+00	1.73E+08	4.87E+09	2.04E+09	3.77E+08	1.31E+10
3.93E+07	0.00E+00	1.01E+08	2.09E+09	1.08E+06	0.00E+00	3.41E+07	9.82E+08	1.72E+08	0.00E+00	4.32E+09
0.00E+00	0.00E+00	5.96E+07	1.87E+09	1.07E+06	0.00E+00	8.51E+06	1.96E+08	0.00E+00	0.00E+00	2.32E+09
3.48E+08	3.33E+07	1.38E+09	1.10E+10	4.22E+06	0.00E+00	1.94E+08	4.96E+09	1.54E+09	6.40E+08	2.47E+10
0.00E+00	0.00E+00	5.70E+07	0.00E+00	0.00E+00	0.00E+00	2.57E+07	7.93E+08	0.00E+00	0.00E+00	1.59E+09
0.00E+00	0.00E+00	2.13E+07	0.00E+00	0.00E+00	0.00E+00	1.50E+07	3.31E+08	0.00E+00	0.00E+00	6.78E+08
1.54E+08	0.00E+00	9.69E+07	2.84E+09	3.26E+06	0.00E+00	1.25E+08	3.52E+09	7.24E+08	0.00E+00	1.05E+10
14639365	0	8636983	40475669	0	0	28131811	687974076	68142186	0	1.46E+09
0	0	498940.4	0	0	0	272042.133	0	0	0	1747972
1.28E+08	1.32E+07	5.41E+07	4.22E+08	0.00E+00	0.00E+00	1.61E+08	2.15E+09	5.99E+08	2.62E+08	5.95E+09
2.47E+08	1.70E+07	1.85E+08	5.46E+08	0.00E+00	0.00E+00	1.43E+08	1.47E+09	1.13E+09	3.34E+08	5.70E+09
6.35E+08	8.91E+07	5.04E+08	1.75E+09	5.82E+05	0.00E+00	3.34E+08	8.01E+09	2.93E+09	1.76E+09	2.32E+10
4.48E+08	5.40E+07	2.78E+08	4.47E+08	0.00E+00	0.00E+00	1.24E+08	4.18E+09	2.12E+09	1.09E+09	1.22E+10
1.14E+07	0.00E+00	8.03E+07	4.79E+08	0.00E+00	0.00E+00	4.37E+07	1.11E+09	5.35E+07	0.00E+00	2.76E+09
1.13E+07	0.00E+00	1.51E+07	1.24E+08	3.61E+05	0.00E+00	1.48E+07	5.68E+08	5.32E+07	0.00E+00	1.26E+09
2.19E+08	3.52E+07	1.38E+08	0.00E+00	4.52E+05	0.00E+00	5.80E+07	2.93E+09	1.01E+09	6.90E+08	7.49E+09
1.57E+07	2.99E+06	4.30E+07	0.00E+00	0.00E+00	0.00E+00	7.42E+07	1.49E+09	7.21E+07	5.88E+07	3.15E+09
0.00E+00	0.00E+00	1.76E+06	0.00E+00	0.00E+00	0.00E+00	2.59E+06	3.11E+08	0.00E+00	0.00E+00	5.73E+08
2.77E+08	0.00E+00	1.42E+08	7.63E+08	0.00E+00	0.00E+00	2.18E+07	2.80E+09	1.27E+09	0.00E+00	7.47E+09
0.00E+00	0.00E+00	9.59E+06	0.00E+00	0.00E+00	0.00E+00	4.75E+06	1.19E+08	0.00E+00	0.00E+00	2.44E+08
2.38E+08	67823063	3.3E+08	6.94E+08	281247	0	118666321	3.715E+09	1.1E+09	1.346E+09	1.08E+10
1.59E+08	30557840	49139332	0	0	0	43146885.7	688351861	755009241	617734919	3E+09
2.18E+08	36430732	1.36E+08	0	480978.2	0	53167776.8	1.514E+09	1.014E+09	719423577	5.01E+09
3.30E+08	8.96E+06	3.41E+08	3.71E+09	2.26E+05	3.85E+11	8.66E+07	5.73E+09	1.50E+09	1.76E+08	4.01E+11
0.00E+00	0.00E+00	7.25E+07	0.00E+00	0.00E+00	0.00E+00	7.71E+06	8.13E+07	0.00E+00	0.00E+00	2.53E+08
1.38E+08	0.00E+00	5.89E+08	1.34E+09	0.00E+00	0.00E+00	7.14E+07	2.80E+09	6.01E+08	0.00E+00	8.01E+09
6.31E+07	0.00E+00	1.18E+08	0.00E+00	0.00E+00	0.00E+00	3.06E+07	9.79E+08	2.78E+08	0.00E+00	2.35E+09
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.66E+06	6.99E+07	0.00E+00	0.00E+00	1.30E+08
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E+05	2.87E+07	0.00E+00	0.00E+00	5.26E+07
0.00E+00	0.00E+00	6.65E+06	0.00E+00	1.10E+04	0.00E+00	4.31E+06	2.40E+07	0.00E+00	0.00E+00	6.88E+07

0.00E+00	0.00E+00	2.40E+05	0.00E+00	0.00E+00	0.00E+00	1.34E+06	0.00E+00	0.00E+00	0.00E+00	6.47E+06
5.36E+07	0.00E+00	2.11E+08	7.62E+08	5.61E+05	0.00E+00	4.72E+07	2.63E+09	2.38E+08	0.00E+00	6.16E+09
1.69E+08	0.00E+00	9.64E+07	7.45E+08	0.00E+00	0.00E+00	4.63E+07	1.45E+09	7.91E+08	0.00E+00	4.53E+09
20253776	5949392	1550672	0	0	0	1618177.1	45920998	93810009	118082511	3.27E+08
6.13E+08	53153035	1.82E+08	2.75E+09	451828	0	163675991	3.371E+09	2.853E+09	1.05E+09	1.41E+10
0.00E+00	0.00E+00	1.54E+07	0.00E+00	3.62E+05	0.00E+00	2.46E+07	1.27E+09	0.00E+00	0.00E+00	2.37E+09
0.00E+00	0.00E+00	2.61E+05	0.00E+00	0.00E+00	0.00E+00	4.04E+05	1.15E+07	0.00E+00	0.00E+00	2.22E+07
2.04E+08	1.06E+07	2.22E+08	1.68E+09	6.84E+05	0.00E+00	1.18E+08	1.93E+09	9.68E+08	2.12E+08	7.17E+09
3.02E+08	0	5.59E+08	2.82E+09	2141032	0	118980487	3.612E+09	1.41E+09	0	1.19E+10
4.24E+08	2.27E+08	1.83E+08	0.00E+00	0.00E+00	0.00E+00	1.33E+08	1.74E+09	2.01E+09	4.56E+09	1.10E+10
2.18E+08	0.00E+00	4.66E+08	0.00E+00	4.05E+05	0.00E+00	8.23E+07	8.06E+08	9.69E+08	0.00E+00	3.48E+09
0.00E+00	0.00E+00	9.26E+06	0.00E+00	0.00E+00	0.00E+00	1.76E+06	2.30E+07	0.00E+00	0.00E+00	5.73E+07
1.42E+08	0.00E+00	3.77E+08	0.00E+00	6.07E+04	0.00E+00	2.02E+08	2.03E+09	6.47E+08	0.00E+00	5.69E+09
2.07E+08	0.00E+00	2.67E+08	2.62E+09	2.82E+06	0.00E+00	1.02E+08	2.67E+09	9.79E+08	0.00E+00	9.16E+09
8.41E+07	0.00E+00	1.54E+08	1.67E+09	0.00E+00	0.00E+00	1.82E+08	2.41E+09	3.99E+08	0.00E+00	7.30E+09
0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.13E+05	5.56E+07	0.00E+00	0.00E+00	9.96E+07
6.76E+07	5.23E+07	1.09E+08	5.34E+08	0.00E+00	0.00E+00	1.00E+08	2.69E+09	3.16E+08	1.04E+09	7.26E+09
4.05E+07	6.52E+06	5.84E+07	0.00E+00	0.00E+00	0.00E+00	1.02E+08	1.07E+09	1.89E+08	1.29E+08	2.75E+09
0.00E+00	0.00E+00	6.93E+06	0.00E+00	0.00E+00	0.00E+00	4.97E+06	6.98E+07	0.00E+00	0.00E+00	1.53E+08
9.95E+06	0.00E+00	2.94E+07	6.12E+07	0.00E+00	0.00E+00	7.97E+06	1.64E+08	4.53E+07	0.00E+00	4.71E+08
4.91E+08	3.02E+07	3.21E+08	2.12E+08	0.00E+00	0.00E+00	2.05E+08	8.49E+09	2.24E+09	5.90E+08	1.97E+10
2.76E+07	0.00E+00	3.28E+07	0.00E+00	0.00E+00	0.00E+00	4.67E+07	2.19E+09	1.29E+08	0.00E+00	4.22E+09
1.36E+06	0.00E+00	1.75E+07	0.00E+00	0.00E+00	0.00E+00	3.11E+06	3.43E+07	6.37E+06	0.00E+00	9.92E+07
1.60E+08	2.01E+07	1.11E+08	0.00E+00	0.00E+00	0.00E+00	2.71E+07	1.37E+09	7.12E+08	3.88E+08	3.95E+09
0.00E+00	0.00E+00	5.64E+07	0.00E+00	0.00E+00	0.00E+00	1.27E+07	1.71E+09	0.00E+00	0.00E+00	3.18E+09
2.10E+08	0.00E+00	9.63E+06	0.00E+00	0.00E+00	0.00E+00	2.04E+07	2.70E+09	9.47E+08	0.00E+00	6.03E+09
0.00E+00	0.00E+00	2.22E+06	0.00E+00	0.00E+00	0.00E+00	9.69E+05	1.16E+07	0.00E+00	0.00E+00	2.73E+07
0.00E+00	0.00E+00	5.13E+05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E+07	0.00E+00	0.00E+00	4.07E+07
1.55E+08	0.00E+00	8.57E+07	0.00E+00	0.00E+00	0.00E+00	3.36E+07	2.11E+09	7.14E+08	0.00E+00	4.80E+09
1.51E+08	4.56E+07	3.35E+07	0.00E+00	0.00E+00	0.00E+00	2.07E+06	3.95E+08	6.91E+08	8.97E+08	2.52E+09
9.63E+07	3.10E+06	1.81E+07	0.00E+00	0.00E+00	0.00E+00	8.23E+05	3.49E+07	4.31E+08	5.97E+07	6.74E+08
1.31E+07	7.11E+05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.12E+05	2.33E+07	6.50E+07	1.50E+07	1.35E+08
4.02E+08	5.43E+07	2.62E+07	0.00E+00	0.00E+00	0.00E+00	1.34E+07	1.24E+09	1.88E+09	1.09E+09	5.67E+09
1.03E+09	2.20E+08	4.59E+08	8.16E+08	0.00E+00	0.00E+00	1.71E+08	1.19E+10	4.54E+09	4.20E+09	3.33E+10
3.33E+08	1.04E+08	6.55E+07	2.08E+09	0.00E+00	0.00E+00	5.29E+07	3.81E+09	1.48E+09	1.98E+09	1.31E+10
7.76E+08	5.78E+07	2.33E+08	2.08E+08	0.00E+00	0.00E+00	2.05E+08	1.40E+10	3.47E+09	1.12E+09	3.16E+10
8.25E+07	1.87E+07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E+08	3.67E+08	3.58E+08	1.05E+09

4.56E+06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.33E+07	2.16E+07	0.00E+00	6.64E+07
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