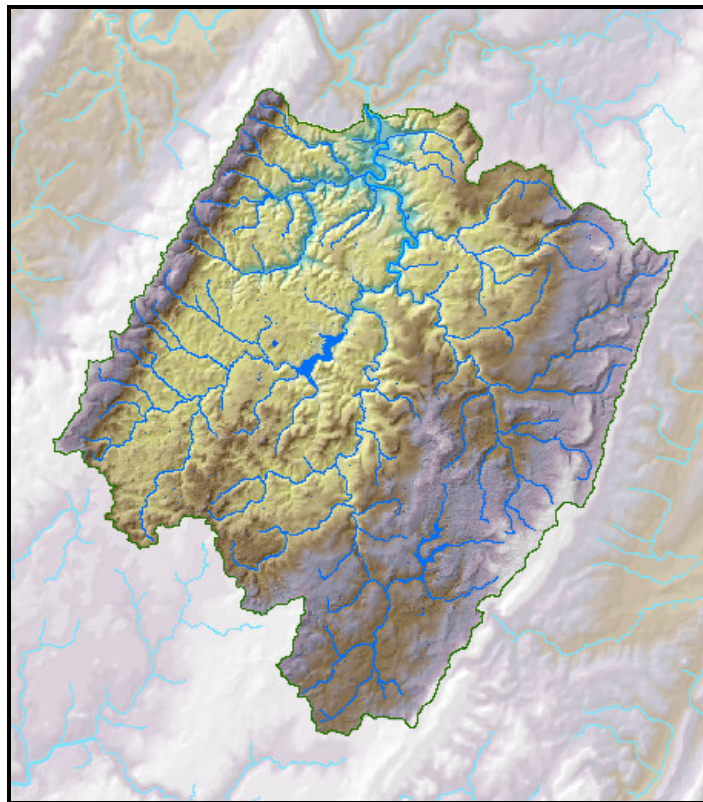


**STONYCREEK RIVER WATERSHED  
ACT 167 – PHASE 2  
STORMWATER MANAGEMENT PLAN**

**VOLUME III – TECHNICAL APPENDIX**



**CAMBRIA AND SOMERSET COUNTIES,  
PENNSYLVANIA**

**FILE NO.  
BLE PROJECT NO. 2005-1719-00**

**STONYCREEK RIVER WATERSHED  
ACT 167 – PHASE 2  
STORMWATER MANAGEMENT PLAN**

**CAMBRIA AND SOMERSET COUNTIES,  
PENNSYLVANIA**

**VOLUME III TECHNICAL APPENDIX**

**FILE NO.  
BLE PROJECT NO. 2005-1719-00**

**ENGINEERING CONSULTANT**

**BORTON-LAWSON ENGINEERING, INC.  
3893 Adler Place, Suite 100  
Bethlehem, PA 18017**



**VOLUME III – TECHNICAL APPENDIX**

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**A. WATERSHED PEAK FLOWS  
SUMMARY TABLES**

STONYCREEK RIVER  
ACT 167 SUMMARY FLOW TABLES

Subbasin	HMS Element	Subarea DA (mi <sup>2</sup> )	EXISTING CONDITIONS SUBAREA PEAK FLOWS					
			2- Yr	5- Yr	10- Yr	25- Yr	50- Yr	100- Yr
1	W1000	7.28	0	0	15	1124	1295	1792
2	W1010	2.56	82	168	260	266	291	452
3	W1020	0.07	6	15	24	23	24	40
4	W1040	8.81	220	440	669	699	773	1177
5	W1050	6.43	340	612	881	985	1123	1598
6	W1060	1.93	86	178	274	280	306	477
7	W1070	0.32	3	14	31	49	55	83
8	W1080	18.71	502	1143	1833	1983	2300	3120
9	W1090	19.04	322	812	1365	1586	1827	2528
10	W1100	3.55	234	401	562	774	844	1136
11	W1110	6.02	343	594	836	958	1103	1529
12	W1120	0.04	15	23	31	37	44	57
13	W1130	10.16	387	695	1001	1119	1277	1815
14	W1140	7.28	564	871	1156	1619	1816	2319
15	W1150	12.24	558	981	1397	1582	1814	2544
16	W1160	18.73	1457	2194	2870	3957	4494	5661
17	W1170	1.92	81	157	236	334	339	488
18	W1180	17.07	1198	1859	2474	3477	3883	4976
19	W1190	18.08	1185	1784	2334	3218	3649	4598
20	W1200	7.60	1500	2374	3174	4467	4890	6294
21	W1210	6.27	1213	1927	2581	3634	3976	5119
22	W1220	0.88	222	373	513	740	788	1040
23	W1240	6.89	595	891	1161	1595	1818	2282
24	W1250	9.62	1413	2331	3191	4593	4872	6417
25	W1260	0.02	6	8	10	13	15	18
26	W1270	0.01	4	5	7	8	10	11
27	W1280	5.06	427	622	797	1074	1237	1529
28	W1290	11.55	853	1273	1656	2269	2587	3240
29	W1300	5.00	425	643	844	1166	1323	1671
30	W1310	4.97	387	584	765	1057	1199	1512
31	W1320	1.84	110	240	378	391	455	611
32	W1340	3.83	48	159	303	408	461	669
33	W1380	3.06	197	368	539	633	666	971
34	W1390	9.82	405	772	1145	1330	1384	2046
35	W1430	1.08	94	172	250	296	315	453
36	W1450	3.91	234	421	606	721	774	1100
37	W1490	4.67	242	534	841	875	1018	1370
38	W1500	8.60	0	48	137	1688	1975	2591
39	W1540	1.01	234	391	537	775	824	1086
40	W1550	0.90	267	420	559	786	865	1111
41	W670	1.43	274	425	566	610	1025	1271
42	W680	8.29	559	1027	1490	2268	3616	4469
43	W690	7.38	489	822	1139	1387	1536	2089
44	W700	7.16	625	995	1343	1376	2518	3147
45	W710	0.23	25	51	77	88	89	137
46	W720	0.34	125	188	245	251	253	356
47	W730	3.77	316	569	817	975	1046	1488
48	W750	12.30	1470	2081	2631	3036	3743	4671
49	W760	7.75	989	1480	1933	2047	2228	3015

STONYCREEK RIVER  
ACT 167 SUMMARY FLOW TABLES

Subbasin	HMS Element	Subarea DA (mi <sup>2</sup> )	EXISTING CONDITIONS SUBAREA PEAK FLOWS					
			2- Yr	5- Yr	10- Yr	25- Yr	50- Yr	100- Yr
50	W770	6.34	576	1006	1420	1652	1785	2517
51	W780	0.35	40	80	120	138	141	214
52	W800	20.00	707	1249	1783	2131	2306	3242
53	W810	2.57	586	848	1086	1159	1625	2041
54	W820	1.20	376	532	672	769	1016	1251
55	W830	4.28	347	618	883	1013	1084	1550
56	W840	13.07	1274	1845	2366	2469	2648	3539
57	W850	7.36	970	1409	1812	2211	2683	3386
58	W860	4.53	404	718	1022	1227	1507	2060
59	W870	9.13	307	590	879	942	1055	1566
60	W880	20.61	477	880	1284	1412	1600	2313
61	W900	18.83	819	1352	1861	2545	2811	3722
62	W910	12.56	563	945	1312	1525	1767	2404
63	W920	12.05	256	600	978	1085	1256	1715
64	W930	9.68	162	442	767	925	1060	1487
65	W940	6.96	279	537	800	857	959	1426
66	W950	2.02	48	135	236	284	325	457
67	W960	1.61	0	0	0	218	247	356
68	W970	3.67	220	478	750	774	900	1209
69	W980	0.05	26	45	60	61	71	83
70	W990	5.90	0	0	1	665	766	1061

STONYCREEK RIVER  
ACT 167 SUMMARY FLOW TABLES

Subbasin	HMS Element	Subarea DA (mi <sup>2</sup> )	EXISTING CONDITIONS CUMULATIVE FLOWS					
			2- Yr	5- Yr	10- Yr	25- Yr	50- Yr	100- Yr
1	J168	3.91	234	421	606	721	774	1,100
2	J171	38.22	1,277	2,387	3,452	4,092	4,387	6,263
3	J176	3.83	48	159	303	408	461	669
4	J179	24.72	397	991	1,686	2,065	2,386	3,336
5	J182	9.97	804	1,216	1,593	2,202	2,497	3,153
6	J187	16.61	1,280	1,894	2,452	3,342	3,822	4,768
7	J192	26.60	2,077	3,098	4,030	5,521	6,295	7,888
8	J197	24.36	3,719	5,954	8,022	11,341	12,327	15,947
9	J200	59.76	2,514	3,780	5,022	7,044	8,023	10,251
10	J207	13.87	2,713	4,302	5,753	8,101	8,866	11,413
11	J212	94.90	3,953	5,930	7,784	10,823	12,304	15,623
12	J217	115.55	4,765	7,135	9,327	12,990	14,786	18,714
13	J222	22.39	941	1,671	2,389	2,691	3,079	4,342
14	J225	126.39	4,998	7,511	9,867	13,870	15,710	19,949
15	J230	28.45	1,246	2,197	3,127	3,573	4,094	5,745
16	J239	43.74	882	2,116	3,491	4,038	4,677	6,448
17	J244	36.82	1,522	2,674	3,800	4,481	5,133	7,216
18	J249	29.42	650	1,215	1,789	1,949	2,200	3,207
19	J252	68.87	2,104	3,795	5,471	6,237	7,093	10,130
20	J257	13.17	0	0	15	1,706	1,965	2,719
21	J262	85.99	1,299	3,213	5,336	7,240	8,391	11,528
22	J265	57.09	1,020	2,564	4,288	5,110	5,917	8,174
23	J270	71.16	1,299	3,217	5,344	6,292	7,287	10,042
24	J273	88.39	2,766	4,905	7,005	8,272	9,443	13,360
25	J282	244.48	5,966	9,556	13,043	20,988	24,183	31,748
26	J289	346.53	7,916	12,942	17,870	25,991	29,771	39,330
27	J294	20.43	2,084	3,024	3,884	4,289	4,842	6,313
28	J299	387.31	8,651	14,016	19,270	27,655	31,486	41,459
29	J302	33.93	3,578	5,138	6,554	7,412	8,696	11,116
30	J307	32.88	1,131	2,096	3,029	3,454	3,711	5,357
31	J314	401.39	8,822	14,262	19,584	28,046	31,875	41,933
32	J321	49.37	1,488	2,748	3,953	5,691	6,005	8,443
33	J324	451.32	9,818	15,976	22,074	30,113	33,883	44,538
34	J329	466.77	9,984	16,225	22,405	30,515	34,259	44,993
35	JBen Creek DS	49.59	1,485	2,741	3,942	5,695	6,012	8,451
36	JQuemah Creek DS	99.26	660	1,561	2,708	6,097	7,238	10,161
37	JShade Creek DS	97.52	2,903	5,130	7,315	8,878	10,137	14,346
38	JStony US-Ben Creek	401.73	8,825	14,267	19,591	28,051	31,877	41,932
39	JStony US-Quemah Creek	145.22	5,313	8,016	10,519	14,949	17,042	21,644
40	JStony US-Shade Creek	249.01	6,013	9,623	13,127	21,099	24,301	31,880
41	JStony US-Wells Creek	77.83	3,348	5,019	6,609	9,204	10,477	13,324
42	Lk Stonycreek	25.26	472	838	1,222	1,919	2,104	2,927
43	NForkDam	9.82	392	771	1,144	1,329	1,383	2,003
44	Outlet1	468.19	9,995	16,240	22,425	30,532	34,202	44,921

**B. HEC-HMS MODEL OUTPUT TABLES**

Project: Stoneycreek River Simulation Run: Run 2-yr

Start of Run: 29Oct2007, 00:00 Basin Model: Stony-10yr  
 End of Run: 31Oct2007, 00:05 Meteorologic Model: Met 2-yr  
 Compute Time: 03Feb2009, 12:21:13 Control Specifications: Control Porject

Volume Units: IN

J168	3.9092000	234.24	29Oct2007, 14:20	0.52
J171	38.2160400	1277.06	29Oct2007, 17:10	0.47
J176	3.8288000	47.81	29Oct2007, 14:55	0.17
J179	24.7155000	397.05	29Oct2007, 16:10	0.25
J182	9.9661000	804.39	29Oct2007, 15:25	0.84
J187	16.6090000	1279.85	29Oct2007, 16:15	0.93
J192	26.6017844	2076.69	29Oct2007, 16:20	0.90
J197	24.3644000	3718.60	29Oct2007, 13:25	0.74
J200	59.7566044	2514.31	29Oct2007, 18:05	0.70
J207	13.8675000	2713.07	29Oct2007, 12:50	0.79
J212	94.8996044	3953.02	29Oct2007, 18:25	0.73
J217	115.5490044	4764.93	29Oct2007, 18:35	0.74
J222	22.3940000	941.12	29Oct2007, 15:50	0.50
J225	126.3875044	4998.10	29Oct2007, 19:50	0.73
J230	28.4537015	1246.15	29Oct2007, 15:50	0.52



J239	43.7412800	882.18	29Oct2007, 15:35	0.28
J244	36.8165015	1521.55	29Oct2007, 16:10	0.51
J249	29.4239000	649.55	29Oct2007, 17:45	0.37
J252	68.8721560	2103.97	29Oct2007, 16:35	0.44
J257	13.1739000	0.00	29Oct2007, 00:00	0.00
J262	85.9936476	1299.22	29Oct2007, 16:40	0.23
J265	57.0895800	1020.25	29Oct2007, 16:20	0.28
J270	71.1585800	1299.04	29Oct2007, 16:25	0.28
J273	88.3907560	2766.06	29Oct2007, 17:40	0.46
J282	244.4784520	5966.49	29Oct2007, 23:30	0.50
J289	346.5263080	7916.16	29Oct2007, 22:35	0.49
J294	20.4305000	2083.87	29Oct2007, 14:20	0.90
J299	387.3064080	8650.75	29Oct2007, 22:35	0.53
J302	33.9296000	3578.14	29Oct2007, 14:55	0.97
J307	32.8777000	1131.21	29Oct2007, 16:30	0.46
J314	401.3895080	8821.52	29Oct2007, 22:55	0.54
J321	49.3666400	1488.43	29Oct2007, 19:10	0.50
J324	451.3185980	9818.33	29Oct2007, 22:35	0.54
J329	466.7654980	9984.26	29Oct2007, 23:10	0.54
JBen Creek DS	49.5918500	1484.77	29Oct2007, 19:45	0.50
JQuemah Creek DS	99.2579476	660.31	30Oct2007, 00:20	0.19

JShade Creek DS	97.5205560	2902.56	29Oct2007, 19:15	0.46
JStony US-Ben Creek	401.7267480	8825.40	29Oct2007, 22:55	0.54
JStony US-Quemah Creek	145.2205044	5312.90	29Oct2007, 23:25	0.71
JStony US-Shade Creek	249.0057520	6013.21	29Oct2007, 23:55	0.50
JStony US-Wells Creek	77.8336044	3348.28	29Oct2007, 18:50	0.73
Lk Stonycreek	25.2596200	471.50	29Oct2007, 18:40	0.61
NForkDam	9.8185000	391.64	29Oct2007, 15:15	0.41
Outlet1	468.1926980	9994.96	29Oct2007, 23:35	0.54
R100	32.8777000	1118.00	29Oct2007, 17:15	0.46
R120	9.8185000	350.98	29Oct2007, 16:30	0.41
R1330	3.8288000	37.64	29Oct2007, 18:20	0.17
R140	387.3064080	8646.82	29Oct2007, 22:55	0.53
R1440	3.9092000	231.31	29Oct2007, 15:05	0.52
R150	33.9296000	3543.69	29Oct2007, 15:35	0.97
R1520	85.9936476	1299.12	29Oct2007, 16:40	0.23
R1560	24.3644000	455.53	29Oct2007, 19:05	0.60
R160	20.4305000	2058.52	29Oct2007, 15:05	0.90
R20	466.7654980	9978.76	29Oct2007, 23:35	0.54
R200	346.5263080	7912.45	29Oct2007, 22:55	0.49
R210	244.4784520	5965.08	29Oct2007, 23:55	0.50
R220	88.3907560	2740.66	29Oct2007, 19:20	0.46

R260	57.0895800	1019.10	29Oct2007, 16:35	0.28
R270	94.5898476	617.70	30Oct2007, 01:15	0.18
R280	71.1585800	1297.53	29Oct2007, 16:40	0.28
R290	13.1739000	0.00	29Oct2007, 00:00	0.00
R310	68.8721560	2088.70	29Oct2007, 17:55	0.44
R330	36.8165015	1521.17	29Oct2007, 16:10	0.51
R340	29.4239000	648.55	29Oct2007, 18:30	0.37
R370	43.7412800	878.06	29Oct2007, 16:05	0.28
R390	24.7155000	397.01	29Oct2007, 16:10	0.25
R410	126.3875044	4977.74	29Oct2007, 23:50	0.72
R420	28.4537015	1239.03	29Oct2007, 16:25	0.52
R430	22.3940000	938.79	29Oct2007, 16:10	0.50
R480	115.5490044	4749.06	29Oct2007, 20:00	0.74
R50	49.3666400	1482.22	29Oct2007, 19:45	0.50
R520	94.8996044	3944.26	29Oct2007, 19:05	0.73
R560	13.8675000	2523.16	29Oct2007, 13:30	0.79
R570	59.7566044	2495.17	29Oct2007, 19:20	0.70
R580	25.2596200	293.94	30Oct2007, 05:30	0.45
R60	451.3185980	9808.97	29Oct2007, 23:10	0.53
R600	26.6017844	2043.83	29Oct2007, 18:10	0.90
R610	16.6090000	1279.49	29Oct2007, 16:15	0.93

R620	9.9661000	796.20	29Oct2007, 16:25	0.84
R80	401.3895080	8821.34	29Oct2007, 22:55	0.54
R90	38.2160400	1242.08	29Oct2007, 19:20	0.47
Reservoir-Indian Lake	24.3644000	455.53	29Oct2007, 19:05	0.60
Reservoir-Lake Gloria	3.8288000	37.68	29Oct2007, 17:45	0.17
Reservoir-Lake Stonycreek	25.2596200	293.94	30Oct2007, 05:30	0.45
Reservoir-North Fork	9.8185000	391.64	29Oct2007, 15:15	0.41
Reservoir-Quemahoning	94.5898476	617.74	30Oct2007, 01:00	0.18
Reservoir-Stoughton Lake	9.6825000	113.85	29Oct2007, 19:00	0.19
W1000	7.2782000	0.00	29Oct2007, 00:00	0.00
W1010	2.5590000	81.93	29Oct2007, 14:45	0.33
W1020	0.0727545	6.31	29Oct2007, 12:25	0.33
W1040	8.8149000	220.46	29Oct2007, 16:10	0.33
W1050	6.4345000	339.77	29Oct2007, 14:45	0.51
W1060	1.9283000	85.98	29Oct2007, 13:45	0.36
W1070	0.3167800	3.23	29Oct2007, 14:05	0.13
W1080	18.7090000	501.53	29Oct2007, 15:20	0.33
W1090	19.0440000	322.26	29Oct2007, 16:10	0.25
W1100	3.5546000	233.84	29Oct2007, 14:25	0.57
W1110	6.0173000	343.36	29Oct2007, 15:00	0.58
W1120	0.0424015	14.84	29Oct2007, 12:20	0.90

Project: Stoneycreek River Simulation Run: Run 5-yr

Start of Run: 29Oct2007, 00:00 Basin Model: Stony-10yr

End of Run: 31Oct2007, 00:05 Meteorologic Model: Met 5-yr

Compute Time: 03Feb2009, 11:43:16 Control Specifications: Control Porject

Volume Units: IN

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
J168	3.9092000	421.20	29Oct2007, 14:10	0.86
J171	38.2160400	2386.78	29Oct2007, 16:30	0.79
J176	3.8288000	158.96	29Oct2007, 14:05	0.41
J179	24.7155000	991.11	29Oct2007, 15:35	0.52
J182	9.9661000	1215.65	29Oct2007, 15:20	1.24
J187	16.6090000	1894.06	29Oct2007, 16:15	1.36
J192	26.6017844	3098.27	29Oct2007, 16:15	1.31
J197	24.3644000	5954.10	29Oct2007, 13:20	1.14
J200	59.7566044	3780.44	29Oct2007, 18:00	1.08
J207	13.8675000	4301.65	29Oct2007, 12:50	1.20
J212	94.8996044	5930.07	29Oct2007, 18:20	1.11
J217	115.5490044	7135.26	29Oct2007, 18:25	1.12
J222	22.3940000	1670.84	29Oct2007, 15:40	0.84
J225	126.3875044	7510.85	29Oct2007, 18:30	1.11
J230	28.4537015	2197.42	29Oct2007, 15:40	0.86

Hydrologic Element	Drainage Area (MI <sup>2</sup> )	Peak Discharge (CFS)	Time of Peak	Volume (IN)
J239	43.7412800	2115.57	29Oct2007, 15:15	0.57
J244	36.8165015	2674.02	29Oct2007, 16:00	0.84
J249	29.4239000	1215.01	29Oct2007, 17:25	0.66
J252	68.8721560	3795.47	29Oct2007, 16:25	0.76
J257	13.1739000	0.00	29Oct2007, 00:00	0.00
J262	85.9936476	3212.94	29Oct2007, 16:05	0.47
J265	57.0895800	2563.96	29Oct2007, 15:45	0.57
J270	71.1585800	3216.72	29Oct2007, 15:55	0.57
J273	88.3907560	4904.54	29Oct2007, 17:30	0.78
J282	244.4784520	9555.56	29Oct2007, 22:50	0.81
J289	346.5263080	12941.70	29Oct2007, 22:10	0.80
J294	20.4305000	3023.79	29Oct2007, 14:20	1.29
J299	387.3064080	14016.03	29Oct2007, 22:15	0.85
J302	33.9296000	5137.69	29Oct2007, 14:55	1.38
J307	32.8777000	2095.71	29Oct2007, 16:00	0.79
J314	401.3895080	14261.53	29Oct2007, 22:30	0.86
J321	49.3666400	2748.41	29Oct2007, 18:30	0.83
J324	451.3185980	15975.98	29Oct2007, 22:00	0.86
J329	466.7654980	16224.96	29Oct2007, 22:35	0.86
JBen Creek DS	49.5918500	2740.79	29Oct2007, 19:05	0.83
JQuemah Creek DS	99.2579476	1561.27	29Oct2007, 21:35	0.41

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
JShade Creek DS	97.5205560	5129.59	29Oct2007, 19:05	0.77
JStony US-Ben Creek	401.7267480	14266.57	29Oct2007, 22:35	0.86
JStony US-Quemah Creek	145.2205044	8015.52	29Oct2007, 22:55	1.08
JStony US-Shade Creek	249.0057520	9622.78	29Oct2007, 23:15	0.81
JStony US-Wells Creek	77.8336044	5018.97	29Oct2007, 18:45	1.11
Lk Stonycreek	25.2596200	837.65	29Oct2007, 17:15	0.97
NForkDam	9.8185000	771.10	29Oct2007, 14:40	0.71
Outlet1	468.1926980	16240.40	29Oct2007, 23:00	0.86
R100	32.8777000	2081.36	29Oct2007, 16:40	0.79
R120	9.8185000	748.31	29Oct2007, 15:50	0.71
R1330	3.8288000	103.11	29Oct2007, 16:45	0.41
R140	387.3064080	14009.73	29Oct2007, 22:30	0.85
R1440	3.9092000	414.87	29Oct2007, 15:00	0.86
R150	33.9296000	5085.62	29Oct2007, 15:35	1.38
R1520	85.9936476	3213.29	29Oct2007, 16:10	0.47
R1560	24.3644000	810.91	29Oct2007, 17:25	0.96
R160	20.4305000	2987.71	29Oct2007, 15:00	1.29
R20	466.7654980	16217.31	29Oct2007, 23:00	0.86
R200	346.5263080	12934.89	29Oct2007, 22:30	0.80
R210	244.4784520	9551.52	29Oct2007, 23:15	0.81
R220	88.3907560	4856.34	29Oct2007, 19:10	0.78



Hydrologic Element	Drainage Area (MI <sup>2</sup> )	Peak Discharge (CFS)	Time of Peak	Volume (IN)
R260	57.0895800	2558.80	29Oct2007, 16:00	0.57
R270	94.5898476	1483.09	29Oct2007, 21:50	0.40
R280	71.1585800	3210.46	29Oct2007, 16:05	0.57
R290	13.1739000	0.00	29Oct2007, 00:00	0.00
R310	68.8721560	3763.90	29Oct2007, 17:45	0.76
R330	36.8165015	2673.16	29Oct2007, 16:05	0.84
R340	29.4239000	1212.93	29Oct2007, 18:00	0.66
R370	43.7412800	2104.02	29Oct2007, 15:40	0.57
R390	24.7155000	990.98	29Oct2007, 15:40	0.52
R410	126.3875044	7484.57	29Oct2007, 23:25	1.10
R420	28.4537015	2183.89	29Oct2007, 16:15	0.86
R430	22.3940000	1665.80	29Oct2007, 16:00	0.84
R480	115.5490044	7115.97	29Oct2007, 19:50	1.12
R50	49.3666400	2736.59	29Oct2007, 19:05	0.83
R520	94.8996044	5915.89	29Oct2007, 19:00	1.11
R560	13.8675000	4005.07	29Oct2007, 13:30	1.20
R570	59.7566044	3754.41	29Oct2007, 19:20	1.07
R580	25.2596200	534.46	30Oct2007, 03:20	0.77
R60	451.3185980	15962.52	29Oct2007, 22:40	0.86
R600	26.6017844	3047.38	29Oct2007, 18:10	1.31
R610	16.6090000	1893.94	29Oct2007, 16:15	1.36

Hydrologic Element	Drainage Area (MI <sup>2</sup> )	Peak Discharge (CFS)	Time of Peak	Volume (IN)
R620	9.9661000	1203.41	29Oct2007, 16:20	1.24
R80	401.3895080	14260.87	29Oct2007, 22:35	0.86
R90	38.2160400	2330.37	29Oct2007, 18:40	0.79
Reservoir-Indian Lake	24.3644000	810.91	29Oct2007, 17:25	0.96
Reservoir-Lake Gloria	3.8288000	103.34	29Oct2007, 16:10	0.41
Reservoir-Lake Stonycreek	25.2596200	534.46	30Oct2007, 03:15	0.77
Reservoir-North Fork	9.8185000	771.10	29Oct2007, 14:40	0.71
Reservoir-Quemahoning	94.5898476	1483.23	29Oct2007, 21:40	0.40
Reservoir-Stoughton Lake	9.6825000	323.61	29Oct2007, 16:35	0.46
W1000	7.2782000	0.00	29Oct2007, 00:00	0.00
W1010	2.5590000	168.49	29Oct2007, 14:30	0.60
W1020	0.0727545	14.79	29Oct2007, 12:20	0.60
W1040	8.8149000	440.31	29Oct2007, 15:50	0.60
W1050	6.4345000	611.83	29Oct2007, 14:35	0.84
W1060	1.9283000	177.55	29Oct2007, 13:40	0.64
W1070	0.3167800	14.18	29Oct2007, 13:05	0.35
W1080	18.7090000	1142.57	29Oct2007, 15:00	0.64
W1090	19.0440000	811.76	29Oct2007, 15:40	0.52
W1100	3.5546000	400.71	29Oct2007, 14:20	0.92
W1110	6.0173000	593.65	29Oct2007, 14:55	0.93
W1120	0.0424015	23.11	29Oct2007, 12:20	1.34

Project: Stoneycreek River Simulation Run: Run 10-yr

Start of Run: 29Oct2007, 00:00 Basin Model: Stony-10yr

End of Run: 31Oct2007, 00:05 Meteorologic Model: Met 10-yr

Compute Time: 03Feb2009, 10:50:03 Control Specifications: Control Porject

Volume Units: IN

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
J168	3.9092000	605.80	29Oct2007, 14:10	1.18
J171	38.2160400	3452.49	29Oct2007, 16:20	1.10
J176	3.8288000	302.74	29Oct2007, 13:55	0.66
J179	24.7155000	1686.34	29Oct2007, 15:20	0.80
J182	9.9661000	1593.24	29Oct2007, 15:15	1.60
J187	16.6090000	2451.77	29Oct2007, 16:10	1.74
J192	26.6017844	4030.17	29Oct2007, 16:15	1.69
J197	24.3644000	8021.64	29Oct2007, 13:20	1.50
J200	59.7566044	5022.21	29Oct2007, 18:00	1.43
J207	13.8675000	5752.99	29Oct2007, 12:50	1.57
J212	94.8996044	7783.67	29Oct2007, 18:20	1.46
J217	115.5490044	9326.56	29Oct2007, 18:25	1.47
J222	22.3940000	2388.69	29Oct2007, 15:35	1.15
J225	126.3875044	9866.88	29Oct2007, 18:25	1.46
J230	28.4537015	3127.48	29Oct2007, 15:35	1.18

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
J239	43.7412800	3490.54	29Oct2007, 15:05	0.86
J244	36.8165015	3800.42	29Oct2007, 15:55	1.16
J249	29.4239000	1788.67	29Oct2007, 17:00	0.94
J252	68.8721560	5471.10	29Oct2007, 16:20	1.06
J257	13.1739000	15.36	30Oct2007, 00:35	0.01
J262	85.9936476	5336.48	29Oct2007, 15:55	0.71
J265	57.0895800	4288.15	29Oct2007, 15:35	0.86
J270	71.1585800	5344.35	29Oct2007, 15:40	0.86
J273	88.3907560	7005.09	29Oct2007, 17:25	1.09
J282	244.4784520	13042.96	29Oct2007, 22:30	1.11
J289	346.5263080	17870.44	29Oct2007, 21:55	1.10
J294	20.4305000	3883.95	29Oct2007, 14:20	1.64
J299	387.3064080	19270.07	29Oct2007, 21:55	1.16
J302	33.9296000	6554.29	29Oct2007, 14:55	1.75
J307	32.8777000	3029.36	29Oct2007, 15:55	1.09
J314	401.3895080	19584.11	29Oct2007, 22:10	1.17
J321	49.3666400	3952.74	29Oct2007, 18:20	1.15
J324	451.3185980	22074.30	29Oct2007, 21:30	1.17
J329	466.7654980	22405.15	29Oct2007, 22:05	1.17
JBen Creek DS	49.5918500	3942.37	29Oct2007, 18:50	1.15
JQuemah Creek DS	99.2579476	2708.10	29Oct2007, 20:15	0.65

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
JShade Creek DS	97.5205560	7314.54	29Oct2007, 19:00	1.08
JStony US-Ben Creek	401.7267480	19590.68	29Oct2007, 22:15	1.17
JStony US-Quemah Creek	145.2205044	10518.87	29Oct2007, 22:45	1.42
JStony US-Shade Creek	249.0057520	13127.12	29Oct2007, 22:55	1.11
JStony US-Wells Creek	77.8336044	6609.08	29Oct2007, 18:45	1.46
Lk Stonycreek	25.2596200	1221.66	29Oct2007, 16:40	1.31
NForkDam	9.8185000	1143.96	29Oct2007, 14:35	1.00
Outlet1	468.1926980	22425.41	29Oct2007, 22:30	1.17
R100	32.8777000	3011.19	29Oct2007, 16:30	1.09
R120	9.8185000	1120.51	29Oct2007, 15:40	1.00
R1330	3.8288000	203.95	29Oct2007, 15:55	0.66
R140	387.3064080	19261.02	29Oct2007, 22:10	1.16
R1440	3.9092000	595.80	29Oct2007, 14:55	1.18
R150	33.9296000	6485.67	29Oct2007, 15:35	1.75
R1520	85.9936476	5335.55	29Oct2007, 16:00	0.71
R1560	24.3644000	1185.67	29Oct2007, 16:45	1.30
R160	20.4305000	3838.50	29Oct2007, 15:00	1.64
R20	466.7654980	22396.01	29Oct2007, 22:30	1.17
R200	346.5263080	17860.78	29Oct2007, 22:10	1.10
R210	244.4784520	13035.39	29Oct2007, 22:55	1.11
R220	88.3907560	6934.89	29Oct2007, 19:05	1.09

Hydrologic Element	Drainage Area (MI <sup>2</sup> )	Peak Discharge (CFS)	Time of Peak	Volume (IN)
R260	57.0895800	4278.96	29Oct2007, 15:45	0.86
R270	94.5898476	2587.78	29Oct2007, 20:25	0.63
R280	71.1585800	5333.39	29Oct2007, 15:55	0.86
R290	13.1739000	15.33	30Oct2007, 00:35	0.01
R310	68.8721560	5423.11	29Oct2007, 17:40	1.06
R330	36.8165015	3799.28	29Oct2007, 16:00	1.16
R340	29.4239000	1785.81	29Oct2007, 17:45	0.94
R370	43.7412800	3469.36	29Oct2007, 15:35	0.86
R390	24.7155000	1686.21	29Oct2007, 15:25	0.80
R410	126.3875044	9806.60	29Oct2007, 23:10	1.44
R420	28.4537015	3107.80	29Oct2007, 16:15	1.18
R430	22.3940000	2380.48	29Oct2007, 15:55	1.15
R480	115.5490044	9304.82	29Oct2007, 19:50	1.47
R50	49.3666400	3936.74	29Oct2007, 18:50	1.15
R520	94.8996044	7765.44	29Oct2007, 19:00	1.46
R560	13.8675000	5360.01	29Oct2007, 13:30	1.57
R570	59.7566044	4983.38	29Oct2007, 19:15	1.42
R580	25.2596200	779.05	30Oct2007, 02:10	1.09
R60	451.3185980	22058.83	29Oct2007, 22:10	1.17
R600	26.6017844	3963.04	29Oct2007, 18:05	1.69
R610	16.6090000	2451.14	29Oct2007, 16:15	1.74

Hydrologic Element	Drainage Area (MI <sup>2</sup> )	Peak Discharge (CFS)	Time of Peak	Volume (IN)
R620	9.9661000	1577.04	29Oct2007, 16:15	1.60
R80	401.3895080	19583.56	29Oct2007, 22:15	1.17
R90	38.2160400	3381.84	29Oct2007, 18:30	1.10
Reservoir-Indian Lake	24.3644000	1185.69	29Oct2007, 16:45	1.30
Reservoir-Lake Gloria	3.8288000	205.29	29Oct2007, 15:15	0.66
Reservoir-Lake Stonycreek	25.2596200	779.05	30Oct2007, 02:05	1.09
Reservoir-North Fork	9.8185000	1143.96	29Oct2007, 14:35	1.00
Reservoir-Quemahoning	94.5898476	2588.19	29Oct2007, 20:15	0.63
Reservoir-Stoughton Lake	9.6825000	592.19	29Oct2007, 15:55	0.73
W1000	7.2782000	14.77	30Oct2007, 00:30	0.01
W1010	2.5590000	259.58	29Oct2007, 14:25	0.87
W1020	0.0727545	23.87	29Oct2007, 12:20	0.86
W1040	8.8149000	669.37	29Oct2007, 15:40	0.87
W1050	6.4345000	880.99	29Oct2007, 14:30	1.16
W1060	1.9283000	273.88	29Oct2007, 13:35	0.91
W1070	0.3167800	31.42	29Oct2007, 12:55	0.58
W1080	18.7090000	1833.21	29Oct2007, 14:50	0.95
W1090	19.0440000	1364.73	29Oct2007, 15:25	0.80
W1100	3.5546000	561.58	29Oct2007, 14:20	1.24
W1110	6.0173000	836.45	29Oct2007, 14:50	1.27
W1120	0.0424015	30.53	29Oct2007, 12:20	1.74



Project: Stoneycreek River Simulation Run: Run 25-yr

Start of Run: 29Oct2007, 00:00 Basin Model: stony-25-yr

End of Run: 31Oct2007, 00:05 Meteorologic Model: Met 25-yr

Compute Time: 05Feb2009, 11:39:50 Control Specifications: Control Porject

Volume Units: IN

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
J168	3.9092000	720.75	29Oct2007, 14:10	1.44
J171	38.2160400	4091.51	29Oct2007, 15:20	1.34
J176	3.8288000	407.79	29Oct2007, 15:35	1.19
J179	24.7155000	2065.46	29Oct2007, 18:05	1.37
J182	9.9661000	2202.26	29Oct2007, 15:15	2.19
J187	16.6090000	3341.91	29Oct2007, 16:10	2.35
J192	26.6017844	5521.49	29Oct2007, 16:10	2.29
J197	24.3644000	11340.53	29Oct2007, 13:20	2.09
J200	59.7566044	7044.10	29Oct2007, 18:00	1.99
J207	13.8675000	8101.06	29Oct2007, 12:45	2.17
J212	94.8996044	10823.08	29Oct2007, 18:20	2.03
J217	115.5490044	12989.78	29Oct2007, 18:15	2.04
J222	22.3940000	2691.24	29Oct2007, 15:40	1.35
J225	126.3875044	13869.93	29Oct2007, 18:00	2.03
J230	28.4537015	3573.38	29Oct2007, 15:35	1.38

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
J239	43.7412800	4037.60	29Oct2007, 17:55	1.44
J244	36.8165015	4481.00	29Oct2007, 15:30	1.36
J249	29.4239000	1948.84	29Oct2007, 17:30	1.07
J252	68.8721560	6237.24	29Oct2007, 16:00	1.22
J257	13.1739000	1705.90	29Oct2007, 15:30	1.47
J262	85.9936476	7239.56	29Oct2007, 19:05	1.44
J265	57.0895800	5109.67	29Oct2007, 18:35	1.44
J270	71.1585800	6291.79	29Oct2007, 19:00	1.44
J273	88.3907560	8271.65	29Oct2007, 16:30	1.26
J282	244.4784520	20987.63	29Oct2007, 21:45	1.75
J289	346.5263080	25990.55	29Oct2007, 21:25	1.61
J294	20.4305000	4289.41	29Oct2007, 14:20	1.83
J299	387.3064080	27655.18	29Oct2007, 21:35	1.64
J302	33.9296000	7411.83	29Oct2007, 14:45	1.97
J307	32.8777000	3453.77	29Oct2007, 15:30	1.33
J314	401.3895080	28046.29	29Oct2007, 21:55	1.63
J321	49.3666400	5690.55	29Oct2007, 15:25	1.40
J324	451.3185980	30113.37	29Oct2007, 21:50	1.61
J329	466.7654980	30515.22	29Oct2007, 22:25	1.61
JBen Creek DS	49.5918500	5695.42	29Oct2007, 15:35	1.40
JQuemah Creek DS	99.2579476	6096.70	29Oct2007, 22:15	1.43

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
JShade Creek DS	97.5205560	8878.24	29Oct2007, 17:15	1.24
JStony US-Ben Creek	401.7267480	28051.47	29Oct2007, 22:00	1.63
JStony US-Quemah Creek	145.2205044	14948.92	29Oct2007, 21:30	1.97
JStony US-Shade Creek	249.0057520	21099.07	29Oct2007, 22:05	1.75
JStony US-Wells Creek	77.8336044	9204.29	29Oct2007, 18:45	2.03
Lk Stonycreek	25.2596200	1918.99	29Oct2007, 16:05	1.87
NForkDam	9.8185000	1328.94	29Oct2007, 14:40	1.21
Outlet1	468.1926980	30532.49	29Oct2007, 22:50	1.61
R100	32.8777000	3447.42	29Oct2007, 15:40	1.33
R120	9.8185000	1325.02	29Oct2007, 14:55	1.21
R1330	3.8288000	348.04	29Oct2007, 18:00	1.19
R140	387.3064080	27637.67	29Oct2007, 22:00	1.63
R1440	3.9092000	718.77	29Oct2007, 14:25	1.44
R150	33.9296000	7373.88	29Oct2007, 15:05	1.97
R1520	85.9936476	7239.32	29Oct2007, 19:05	1.44
R1560	24.3644000	1865.86	29Oct2007, 16:15	1.86
R160	20.4305000	4267.32	29Oct2007, 14:40	1.83
R20	466.7654980	30496.66	29Oct2007, 22:50	1.61
R200	346.5263080	25972.44	29Oct2007, 21:45	1.60
R210	244.4784520	20976.86	29Oct2007, 22:05	1.75
R220	88.3907560	8229.86	29Oct2007, 17:20	1.26

Hydrologic Element	Drainage Area (MI <sup>2</sup> )	Peak Discharge (CFS)	Time of Peak	Volume (IN)
R260	57.0895800	5100.64	29Oct2007, 19:05	1.44
R270	94.5898476	5924.40	29Oct2007, 22:20	1.42
R280	71.1585800	6280.81	29Oct2007, 19:25	1.44
R290	13.1739000	1705.44	29Oct2007, 15:30	1.47
R310	68.8721560	6209.86	29Oct2007, 16:40	1.22
R330	36.8165015	4480.56	29Oct2007, 15:35	1.36
R340	29.4239000	1946.93	29Oct2007, 17:45	1.07
R370	43.7412800	4022.28	29Oct2007, 18:55	1.44
R390	24.7155000	2064.86	29Oct2007, 18:10	1.37
R410	126.3875044	13769.95	29Oct2007, 21:50	2.01
R420	28.4537015	3561.69	29Oct2007, 15:55	1.38
R430	22.3940000	2687.06	29Oct2007, 15:50	1.35
R480	115.5490044	12968.16	29Oct2007, 19:20	2.04
R50	49.3666400	5683.64	29Oct2007, 15:35	1.40
R520	94.8996044	10799.08	29Oct2007, 18:50	2.02
R560	13.8675000	7526.49	29Oct2007, 13:30	2.17
R570	59.7566044	6991.09	29Oct2007, 19:15	1.98
R580	25.2596200	1197.68	30Oct2007, 00:55	1.61
R60	451.3185980	30082.36	29Oct2007, 22:25	1.61
R600	26.6017844	5428.42	29Oct2007, 18:05	2.29
R610	16.6090000	3341.25	29Oct2007, 16:10	2.35

Hydrologic Element	Drainage Area (MI <sup>2</sup> )	Peak Discharge (CFS)	Time of Peak	Volume (IN)
R620	9.9661000	2179.29	29Oct2007, 16:15	2.19
R80	401.3895080	28042.70	29Oct2007, 22:00	1.63
R90	38.2160400	4079.39	29Oct2007, 15:50	1.34
Reservoir-Indian Lake	24.3644000	1865.88	29Oct2007, 16:10	1.86
Reservoir-Lake Gloria	3.8288000	351.74	29Oct2007, 16:45	1.19
Reservoir-Lake Stonycreek	25.2596200	1197.69	30Oct2007, 00:50	1.61
Reservoir-North Fork	9.8185000	1328.94	29Oct2007, 14:40	1.21
Reservoir-Quemahoning	94.5898476	5925.60	29Oct2007, 22:10	1.42
Reservoir-Stoughton Lake	9.6825000	863.38	29Oct2007, 18:15	1.29
W1000	7.2782000	1123.71	29Oct2007, 15:05	1.50
W1010	2.5590000	265.97	29Oct2007, 14:35	0.97
W1020	0.0727545	23.48	29Oct2007, 12:20	0.97
W1040	8.8149000	698.74	29Oct2007, 15:55	0.96
W1050	6.4345000	984.87	29Oct2007, 14:35	1.35
W1060	1.9283000	280.33	29Oct2007, 13:40	1.02
W1070	0.3167800	49.27	29Oct2007, 13:40	1.10
W1080	18.7090000	1983.32	29Oct2007, 17:30	1.55
W1090	19.0440000	1585.90	29Oct2007, 18:25	1.37
W1100	3.5546000	773.99	29Oct2007, 14:15	1.68
W1110	6.0173000	957.80	29Oct2007, 14:55	1.50
W1120	0.0424015	37.49	29Oct2007, 12:20	2.12

Project: Stoneycreek River Simulation Run: Run 50-yr

Start of Run: 29Oct2007, 00:00 Basin Model: StonyHMS-100yr  
 End of Run: 31Oct2007, 00:05 Meteorologic Model: Met 50-yr  
 Compute Time: 07Dec2007, 12:30:13 Control Specifications: Control Porject

Volume Units: IN

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
J168	3.9092000	773.66	29Oct2007, 14:15	1.60
J171	38.2160400	4387.07	29Oct2007, 15:35	1.48
J176	3.8288000	461.01	29Oct2007, 15:40	1.37
J179	24.7155000	2385.77	29Oct2007, 18:00	1.59
J182	9.9661000	2497.22	29Oct2007, 15:15	2.48
J187	16.6090000	3822.26	29Oct2007, 16:10	2.68
J192	26.6017844	6295.30	29Oct2007, 16:15	2.61
J197	24.3644000	12326.77	29Oct2007, 13:20	2.28
J200	59.7566044	8022.92	29Oct2007, 18:00	2.25
J207	13.8675000	8866.35	29Oct2007, 12:50	2.38
J212	94.8996044	12303.55	29Oct2007, 18:25	2.29
J217	115.5490044	14786.29	29Oct2007, 18:15	2.30
J222	22.3940000	3078.50	29Oct2007, 15:40	1.56
J225	126.3875044	15710.42	29Oct2007, 17:55	2.29
J230	28.4537015	4094.02	29Oct2007, 15:35	1.60

Hydrologic Element	Drainage Area (MI <sup>2</sup> )	Peak Discharge (CFS)	Time of Peak	Volume (IN)
J239	43.7412800	4677.40	29Oct2007, 17:55	1.68
J244	36.8165015	5133.40	29Oct2007, 15:35	1.57
J249	29.4239000	2199.83	29Oct2007, 17:30	1.22
J252	68.8721560	7092.54	29Oct2007, 16:00	1.41
J257	13.1739000	1965.27	29Oct2007, 15:35	1.71
J262	85.9936476	8391.38	29Oct2007, 19:10	1.68
J265	57.0895800	5917.22	29Oct2007, 18:40	1.67
J270	71.1585800	7287.21	29Oct2007, 19:00	1.68
J273	88.3907560	9443.34	29Oct2007, 16:35	1.46
J282	244.4784520	24183.37	29Oct2007, 21:35	2.00
J289	346.5263080	29771.04	29Oct2007, 21:40	1.84
J294	20.4305000	4842.25	29Oct2007, 14:20	2.09
J299	387.3064080	31486.09	29Oct2007, 22:25	1.88
J302	33.9296000	8695.48	29Oct2007, 14:45	2.33
J307	32.8777000	3710.88	29Oct2007, 15:40	1.47
J314	401.3895080	31874.79	29Oct2007, 23:15	1.87
J321	49.3666400	6005.36	29Oct2007, 15:45	1.56
J324	451.3185980	33882.56	29Oct2007, 23:20	1.84
J329	466.7654980	34259.18	30Oct2007, 00:45	1.86
JBen Creek DS	49.5918500	6011.61	29Oct2007, 15:55	1.56
JQuemah Creek DS	99.2579476	7238.08	29Oct2007, 22:10	1.68



Hydrologic Element	Drainage Area (MI <sup>2</sup> )	Peak Discharge (CFS)	Time of Peak	Volume (IN)
JShade Creek DS	97.5205560	10136.48	29Oct2007, 17:15	1.44
JStony US-Ben Creek	401.7267480	31876.85	29Oct2007, 23:30	1.87
JStony US-Quemah Creek	145.2205044	17042.14	29Oct2007, 21:10	2.23
JStony US-Shade Creek	249.0057520	24301.08	29Oct2007, 22:30	2.00
JStony US-Wells Creek	77.8336044	10477.07	29Oct2007, 18:45	2.29
Lk Stonycreek	25.2596200	2104.10	29Oct2007, 16:15	2.05
NForkDam	9.8185000	1383.13	29Oct2007, 14:45	1.32
Outlet1	468.1926980	34202.21	30Oct2007, 01:45	1.86
R100	32.8777000	3706.98	29Oct2007, 15:55	1.47
R120	9.8185000	1376.42	29Oct2007, 15:05	1.32
R1330	3.8288000	409.00	29Oct2007, 17:50	1.37
R140	387.3064080	31437.58	29Oct2007, 23:20	1.88
R1440	3.9092000	770.68	29Oct2007, 14:30	1.60
R150	33.9296000	8653.57	29Oct2007, 15:00	2.33
R1520	85.9936476	8391.43	29Oct2007, 19:10	1.68
R1560	24.3644000	2044.88	29Oct2007, 16:25	2.04
R160	20.4305000	4817.60	29Oct2007, 14:40	2.09
R20	466.7654980	34197.45	30Oct2007, 01:45	1.85
R200	346.5263080	29722.85	29Oct2007, 22:35	1.83
R210	244.4784520	24157.72	29Oct2007, 22:30	2.00
R220	88.3907560	9396.38	29Oct2007, 17:25	1.46

Hydrologic Element	Drainage Area (MI <sup>2</sup> )	Peak Discharge (CFS)	Time of Peak	Volume (IN)
R260	57.0895800	5905.70	29Oct2007, 19:10	1.67
R270	94.5898476	7030.65	29Oct2007, 22:15	1.66
R280	71.1585800	7274.37	29Oct2007, 19:30	1.68
R290	13.1739000	1965.25	29Oct2007, 15:35	1.71
R310	68.8721560	7062.15	29Oct2007, 16:40	1.41
R330	36.8165015	5132.07	29Oct2007, 15:35	1.57
R340	29.4239000	2197.19	29Oct2007, 17:55	1.22
R370	43.7412800	4658.03	29Oct2007, 18:55	1.68
R390	24.7155000	2384.39	29Oct2007, 18:10	1.59
R410	126.3875044	15627.13	29Oct2007, 21:40	2.27
R420	28.4537015	4082.24	29Oct2007, 15:55	1.60
R430	22.3940000	3073.95	29Oct2007, 15:55	1.56
R480	115.5490044	14755.46	29Oct2007, 19:20	2.30
R50	49.3666400	5998.80	29Oct2007, 15:55	1.56
R520	94.8996044	12281.53	29Oct2007, 18:50	2.28
R560	13.8675000	8252.84	29Oct2007, 13:30	2.38
R570	59.7566044	7961.14	29Oct2007, 19:20	2.23
R580	25.2596200	1346.81	30Oct2007, 00:50	1.78
R60	451.3185980	33797.46	30Oct2007, 00:50	1.83
R600	26.6017844	6189.19	29Oct2007, 18:05	2.61
R610	16.6090000	3821.02	29Oct2007, 16:10	2.68

Hydrologic Element	Drainage Area (MI <sup>2</sup> )	Peak Discharge (CFS)	Time of Peak	Volume (IN)
R620	9.9661000	2471.54	29Oct2007, 16:15	2.48
R80	401.3895080	31867.18	29Oct2007, 23:30	1.87
R90	38.2160400	4368.38	29Oct2007, 16:15	1.48
Reservoir-Indian Lake	24.3644000	2044.85	29Oct2007, 16:20	2.04
Reservoir-Lake Gloria	3.8288000	417.62	29Oct2007, 16:40	1.37
Reservoir-Lake Stonycreek	25.2596200	1346.81	30Oct2007, 00:50	1.78
Reservoir-North Fork	9.8185000	1383.13	29Oct2007, 14:45	1.32
Reservoir-Quemahoning	94.5898476	7031.90	29Oct2007, 22:00	1.66
Reservoir-Stoughton Lake	9.6825000	996.18	29Oct2007, 18:15	1.50
W1000	7.2782000	1295.02	29Oct2007, 15:05	1.75
W1010	2.5590000	291.27	29Oct2007, 14:40	1.10
W1020	0.0727545	23.64	29Oct2007, 12:25	1.09
W1040	8.8149000	772.63	29Oct2007, 16:00	1.10
W1050	6.4345000	1122.61	29Oct2007, 14:40	1.57
W1060	1.9283000	306.42	29Oct2007, 13:45	1.17
W1070	0.3167800	54.49	29Oct2007, 13:45	1.26
W1080	18.7090000	2299.56	29Oct2007, 17:35	1.81
W1090	19.0440000	1827.03	29Oct2007, 18:30	1.59
W1100	3.5546000	843.64	29Oct2007, 14:20	1.88
W1110	6.0173000	1102.95	29Oct2007, 14:55	1.75
W1120	0.0424015	44.34	29Oct2007, 12:20	2.49

Project: Stoneycreek River Simulation Run: Run 100-yr

Start of Run: 29Oct2007, 00:00 Basin Model: StonyHMS-100yr  
 End of Run: 31Oct2007, 00:05 Meteorologic Model: Met 100-yr  
 Compute Time: 07Jan2008, 11:29:05 Control Specifications: Control Porject

Volume Units: IN

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
J168	3.9092000	1100.10	29Oct2007, 14:10	2.15
J171	38.2160400	6263.32	29Oct2007, 15:35	2.02
J176	3.8288000	669.31	29Oct2007, 15:30	1.89
J179	24.7155000	3336.16	29Oct2007, 17:50	2.14
J182	9.9661000	3152.71	29Oct2007, 15:15	3.10
J187	16.6090000	4768.18	29Oct2007, 16:10	3.32
J192	26.6017844	7887.71	29Oct2007, 16:10	3.24
J197	24.3644000	15947.20	29Oct2007, 13:20	2.89
J200	59.7566044	10251.35	29Oct2007, 18:00	2.85
J207	13.8675000	11412.95	29Oct2007, 12:45	3.01
J212	94.8996044	15623.37	29Oct2007, 18:20	2.89
J217	115.5490044	18714.11	29Oct2007, 18:15	2.91
J222	22.3940000	4341.72	29Oct2007, 15:35	2.11
J225	126.3875044	19949.35	29Oct2007, 17:55	2.89
J230	28.4537015	5744.96	29Oct2007, 15:30	2.15

Hydrologic Element	Drainage Area (MI <sup>2</sup> )	Peak Discharge (CFS)	Time of Peak	Volume (IN)
J239	43.7412800	6448.19	29Oct2007, 17:45	2.24
J244	36.8165015	7215.89	29Oct2007, 15:30	2.12
J249	29.4239000	3207.26	29Oct2007, 17:25	1.71
J252	68.8721560	10130.28	29Oct2007, 15:55	1.93
J257	13.1739000	2718.47	29Oct2007, 15:25	2.28
J262	85.9936476	11527.46	29Oct2007, 19:00	2.24
J265	57.0895800	8174.21	29Oct2007, 18:25	2.23
J270	71.1585800	10041.77	29Oct2007, 18:50	2.24
J273	88.3907560	13359.93	29Oct2007, 16:25	1.98
J282	244.4784520	31747.54	29Oct2007, 21:15	2.59
J289	346.5263080	39329.53	29Oct2007, 21:30	2.41
J294	20.4305000	6313.19	29Oct2007, 14:20	2.67
J299	387.3064080	41459.05	29Oct2007, 22:15	2.45
J302	33.9296000	11116.00	29Oct2007, 14:40	2.94
J307	32.8777000	5357.44	29Oct2007, 15:30	2.00
J314	401.3895080	41932.82	29Oct2007, 23:05	2.44
J321	49.3666400	8443.34	29Oct2007, 15:35	2.11
J324	451.3185980	44537.64	29Oct2007, 23:10	2.41
J329	466.7654980	44992.45	30Oct2007, 00:35	2.42
JBen Creek DS	49.5918500	8450.54	29Oct2007, 15:45	2.11
JQuemah Creek DS	99.2579476	10160.62	29Oct2007, 21:40	2.24

Hydrologic Element	Drainage Area (MI <sup>2</sup> )	Peak Discharge (CFS)	Time of Peak	Volume (IN)
JShade Creek DS	97.5205560	14345.68	29Oct2007, 17:10	1.96
JStony US-Ben Creek	401.7267480	41932.30	29Oct2007, 23:20	2.44
JStony US-Quemah Creek	145.2205044	21644.19	29Oct2007, 21:05	2.82
JStony US-Shade Creek	249.0057520	31880.06	29Oct2007, 22:15	2.58
JStony US-Wells Creek	77.8336044	13323.50	29Oct2007, 18:45	2.90
Lk Stonycreek	25.2596200	2926.98	29Oct2007, 15:55	2.65
NForkDam	9.8185000	2002.69	29Oct2007, 14:55	1.83
Outlet1	468.1926980	44920.50	30Oct2007, 01:30	2.42
R100	32.8777000	5338.56	29Oct2007, 15:45	2.00
R120	9.8185000	2000.52	29Oct2007, 15:15	1.83
R1330	3.8288000	627.06	29Oct2007, 17:25	1.89
R140	387.3064080	41393.12	29Oct2007, 23:05	2.44
R1440	3.9092000	1094.61	29Oct2007, 14:25	2.15
R150	33.9296000	11065.44	29Oct2007, 15:00	2.94
R1520	85.9936476	11527.90	29Oct2007, 19:00	2.24
R1560	24.3644000	2848.85	29Oct2007, 16:00	2.64
R160	20.4305000	6281.62	29Oct2007, 14:40	2.67
R20	466.7654980	44911.38	30Oct2007, 01:30	2.42
R200	346.5263080	39260.97	29Oct2007, 22:20	2.40
R210	244.4784520	31702.87	29Oct2007, 22:15	2.58
R220	88.3907560	13289.09	29Oct2007, 17:15	1.98

Hydrologic Element	Drainage Area (MI <sup>2</sup> )	Peak Discharge (CFS)	Time of Peak	Volume (IN)
R260	57.0895800	8157.60	29Oct2007, 18:55	2.23
R270	94.5898476	9886.49	29Oct2007, 21:45	2.22
R280	71.1585800	10022.28	29Oct2007, 19:20	2.24
R290	13.1739000	2717.90	29Oct2007, 15:30	2.28
R310	68.8721560	10084.72	29Oct2007, 16:35	1.93
R330	36.8165015	7215.22	29Oct2007, 15:30	2.12
R340	29.4239000	3206.29	29Oct2007, 17:40	1.71
R370	43.7412800	6425.15	29Oct2007, 18:40	2.24
R390	24.7155000	3334.11	29Oct2007, 17:55	2.14
R410	126.3875044	19819.81	29Oct2007, 21:30	2.86
R420	28.4537015	5728.38	29Oct2007, 15:50	2.15
R430	22.3940000	4334.17	29Oct2007, 15:45	2.11
R480	115.5490044	18678.19	29Oct2007, 19:20	2.90
R50	49.3666400	8433.72	29Oct2007, 15:50	2.11
R520	94.8996044	15592.56	29Oct2007, 18:50	2.88
R560	13.8675000	10605.46	29Oct2007, 13:30	3.01
R570	59.7566044	10176.12	29Oct2007, 19:15	2.83
R580	25.2596200	1833.09	29Oct2007, 23:50	2.35
R60	451.3185980	44423.39	30Oct2007, 00:35	2.40
R600	26.6017844	7753.56	29Oct2007, 18:05	3.24
R610	16.6090000	4767.25	29Oct2007, 16:10	3.32

Hydrologic Element	Drainage Area (MI <sup>2</sup> )	Peak Discharge (CFS)	Time of Peak	Volume (IN)
R620	9.9661000	3119.58	29Oct2007, 16:15	3.10
R80	401.3895080	41920.52	29Oct2007, 23:20	2.44
R90	38.2160400	6232.87	29Oct2007, 16:15	2.02
Reservoir-Indian Lake	24.3644000	2848.78	29Oct2007, 16:00	2.64
Reservoir-Lake Gloria	3.8288000	636.92	29Oct2007, 16:15	1.89
Reservoir-Lake Stonycreek	25.2596200	1833.08	29Oct2007, 23:50	2.35
Reservoir-North Fork	9.8185000	2002.69	29Oct2007, 14:55	1.83
Reservoir-Quemahoning	94.5898476	9888.55	29Oct2007, 21:35	2.22
Reservoir-Stoughton Lake	9.6825000	1405.55	29Oct2007, 18:00	2.04
W1000	7.2782000	1791.48	29Oct2007, 15:00	2.32
W1010	2.5590000	452.37	29Oct2007, 14:30	1.57
W1020	0.0727545	40.21	29Oct2007, 12:20	1.56
W1040	8.8149000	1177.22	29Oct2007, 15:50	1.57
W1050	6.4345000	1597.84	29Oct2007, 14:30	2.12
W1060	1.9283000	477.09	29Oct2007, 13:35	1.65
W1070	0.3167800	83.05	29Oct2007, 13:40	1.76
W1080	18.7090000	3119.99	29Oct2007, 17:25	2.38
W1090	19.0440000	2528.32	29Oct2007, 18:20	2.14
W1100	3.5546000	1136.04	29Oct2007, 14:15	2.45
W1110	6.0173000	1528.87	29Oct2007, 14:50	2.32
W1120	0.0424015	57.08	29Oct2007, 12:20	3.14



**C.            OBSTRUCTION CAPACITY  
SUMMARY FORMS (FORM B)**

**Watershed:**

**Stonycreek**

BoX Culverts Calculation Sheet

Completed by:  
Checked by:  
Date(s):

T= Amount of fill  
D= Diameter  
HT = Height  
W = Width  
PW = Pier Width (if applicable)  
msry = Stone Masonry Structure  
CMP = Corrugated Metal Pipe  
CPP = Corrugated Polyethylene Pipe  
BCCMP = Bituminous Coated Corrugated Metal Pipe

Map ID #	Owner or Address of Obstruction	Capacity (CFS)	Area (SQ. FT)	Nos. of?	Opening		Measurements										material	NOTES	ID No Space	
					Type		Shape (°)													
					Part of Bridge?	Culvert Purpose	□	○	⌒	T (ft)	D (ft)	HT (ft)	W (ft)	PW (ft)	skew angle					
BC10	Conemaugh Twp	263	24	1		road	X					4		4.0	6.0			solid cement, east side is foundation of house	cement bottom -70' back, runs along house, guy is mad.	BC0
BC101	NF CC	1,052	192	1	X	cart path								6.0	32.0			msry SW N West WW 11' Southeast WW 9'	looks sound	BC01
BC102	Private Bornals Dalton Run	461	88	1	X	drive way								5.5	16.0			msry SW -cement block	okay	BC02
BC106	Private	394	72	1	X									6.0	12.0			wooden bridge msry abutments	solid	BC06
BC11	Penn Dot	217	25	1			X					2		5.0	5.0			Solid cement, 2 WW each 7' long	high gradient stream, lots of very small pipes along sides	BC1
BC118	Private	146	35	1	X									3.5	10.0			Msry 2 WWS 5' each	looks good	BC18
BC119	Private	161	36	1	X									4.0	9.0			msry		BC19
BC12	Penn Dot	73	18	1		road	X							3.5	5.0			solid cement 2 WW each 5'	small stream that probably doesn't run r/year round	BC2
BC121	Private	154	37	1		drive way	X							3.5	10.5			Msry 2 WWS 4' each		BC21
BC122	Penn Dot	34	4	1		road	X					3		1.5	2.5			concrete HW 4' wide/1.5' high		BC22
BC129	Private	414	70	1	X	road								7.0	10.0			concrete E WW 8' Wide WWWW 4' wide		BC29
BC13	by BP	4,452	392	2	X									8.0	44.0	2.0		North WW -18' South WW -12' not near channel	Pier-trees stuffed up against wing walls of old bridge part of it.	BC3
BC138	Private	200	40	1	X									5.0	8.0			woodend bridge msry abutments		BC38
BC14	Penn Dot Mill	592	108	1		road								6.0	18.0			solid cement W WW 1/2 cement 1/2 rock 13' east SW rock 30'	no obstructions, some rip rap on bank	BC4
BC15	mouth	4,655	368	2	X									8.0	46.0	3.0		pier 3' wide 2 WW 10' wide each	channel runs exclusively under north end of bridge	BC5
BC19	Conemaugh Twp	708	112	1	X									8.0	14.0		45.0	msry grated bridge	wall built directly on shale bedrock	BC9
BC20	Private	307	30	1		drive						3		6.0	5.0			msry HW 14' high 12' wide	looks like it is starting to fall in	BC0
BC21	Conemaugh Twp	497	84	1	X	road						0		7.0	12.0		45.0	msry block wall on east -8', retaining wall on west -25' long	rip rap on both sides -50'	BC1
BC22	Conemaugh Twp	230	28	1		road						2		3.5	8.0		45.0	msry WW east 6' long	solid cement HW 2'	BC2
BC25	from NF res	2,121	300	1	X									10.0	30.0	3.0		solid cement SW north WW 12' South WW 4' (buried)	main channel (Bens Crk) flows under north end of the bridge	BC5
BC27	Penn Dot below GC Bens	1,676	306	1	X									6.0	51.0	3.0		cement bridge W WW 8' WW E 8'	channel moves to east of pier, mainly	BC7
BC3	going back to res	304	68	1		road way	X					0		4.0	17.0		30.0	MSRY stone WW on west side 12' long	small drop under bridge	BC
BC31	Conemaugh Twp	2,173	324	1	X									9.0	36.0			steel bridge reinforced wooden ramp concrete holds up sides	log jam just upstream appeared to have been flooded recently -10'	BC1
BC32	M 86	2,024	320	1	X									8.0	40.0			Stone Masonry cement bridge 2 WW -12' each	Creek runs mainly under East end	BC2
BC35	Private	113	23	1		drive way	X							5.0	4.5			msry 2 WW 1 HW west WW 5.5' East WW 5'	HW 8' high structure made out of cement	BC5
BC37	Conemaugh Twp	1,493	236	1	X	road way								8.0	29.5			msry SW steel gate bridge	bridge looks old	BC7
BC4	ough Twp Dalton Run going bac	250	50	1		road way	X					0		5.0	10.0			MSRY East SW 6.5'	cement slab on west side helps channelize	BC
BC42	Penn Dot	707	129	1	X	road way								6.0	21.5			msry cement 2 SW 1 HW 4.5' (NE) SW 20' (SW) SW 5'	Everything is made out of concrete	BC2
BC43	Conemaugh Twp	6,600	852	1	X									12.0	71.0			concrete slabs on sides from WW to stream		BC3
BC45	Private	2,090	341	1	X									7.5	45.5			MSRY 2 blocked SW roughly made can't measure	wooden bridge	BC5
BC46	Conemaugh	1,052	192	1	X									6.0	32.0			MSRY 2 WW both 7' bridge is old and in bad condition	guard rail is broken off, needs replaced bridge is surrounded by rock	BC6
BC5	Conemaugh Twp	1,592	130	1		road way	X					4		10.0	13.0		0.0	MSRY WW west 7' SW east 7'	HW acts as guardrail over bridge (2')	BC
BC58	Private	750	150	1	X									5.0	30.0			MSRY steel grate bridge	majority water runs under northern end of bridge	BC8
BC59	Private 1908	2,049	324	1	X									8.0	40.5			msry SW	made of I beams and rotted lumber	BC9
BC6	Penn Dot	1,012	160	1		road way	X					0		8.0	20.0		30.0	solid cement SW East 8' WW west 10' high	looks newer, solid	BC
BC60	Private small plaza	215	56	1	X									3.0	18.5			bridge built in to ground, no SW, or HW or WW	small stream I beams and concrete top	BC0
BC61	Private	537	94	1	X									6.5	14.5			msry 2 WW west WW 5.5' east 3'	new bridge recently installed good shape	BC1
BC64	TWP	156	16	1		road	X					3		4.0	4.0			msry HW 10' high 10.5' wide	culvert is totally blocked structure debris upstream	BC4
BC7	Penn Dot top of Dalton Run rt. 27	468	48	1		road	X					3		4.0	12.0		0.0	solid cement only HW 7' high	screeded rip rap on both sides -6' high -30' long	BC
BC70	Jenner Twp	450	90	1	X									5.0	18.0		45.0	msry SW South WW 10' (less-) North WW 13' (more-)	large rocks laying against walls	BC0
BC74	Jenner twp	1,125	215	1	X									5.5	39.0			long	rocks line southwest bank most of channe flows under southwest	BC4
BC75	Private Farm	174	45	1	X	drive way								3.0	15.0			concrete structure all block	patchy stone on both sides to hold bank back	BC5
BC76	Penn Dot Somerset Pike	1,117	204	1	X									6.0	34.0			2 WW 8' each concrete structure has SW HW 12'	channel mainly under north end	BC6
BC77	Private	277	59	1	X									4.5	13.0			concrete support walls concrete I beams top 2 WW 4' long	small bridge looks solid	BC7
BC78	Penn Dot	370	51	1		road	X					1.5		3.0	17.0		45.0	concrete structure East WW 10' HW on culvert 2' West WW 8'	culvert skewed to road -45 degrees	BC8
BC8	Penn Dot, Rt. 271 O'Conner Run	783	70	1		road	X					4		5.0	14.0		45.0	SW South -15' WW North -25' solid cement	loose rip rap on both sides	BC
BC81	Penn Dot Som Pike	202	39	1		road	X							5.5	7.0		45.0	cement structure 2 WW each 8' HW 4.5' higher	guardrails (HW) is disintegrating	BC1
BC82	Penn Dot Som Pike	78	17	1		road	X							4.3	4.0		15.0	concrete structure south SW 7' North SW 5'	current runs along S WW hirts N SW and goes into culvert	BC2
BC83	Penn Dot 1919	176	42	1	X									3.5	12.0			solid concrete 2 WW each 6' long HW 6.5' high over side	headwall is disintegrating everything else is okay	BC3
BC84	Jenner Twp	1,479	270	1	X									6.0	45.0			concrete SW 2 WW each 7' long	BC 85 dumps in right at bridge	BC4
BC89	Jenner Twp	1,001	176	1	X									8.5	27.0		0.0	msry SW and WW HW -5' each	WW barely noticeable hard to see	BC9
BC9	Conemaugh Twp covered	1,873	342	1		road								6.0	57.0			msry SW hol up bridge 1877 bridge	Rickety Wooden bridge okay condition	BC
BC95	Private Shaler Electric just up from Bens -800 yards	657	120	1	X	drive way	X							8.0	20.0			solid concrete SW no WW	looks okay	BC5
BC96	Private	526	96	1	X	way to drive house								6.0	16.0			msry SW no WW	looks okay too	BC6
BC98	NF CC	624	114	1	X	house								6.0	19.0		45.0	underneath	water moves mainly on west end	BC8
BC99	NF CC	190	46	1		cart path	X							3.5	13.0		0.0	solid cement west WW 9' long East WW 6' long	looks solid cement a little cracked on West WW	BC9
PC13	Private	258	48	1								0.6		2.8	17.5			Brush on right side	Local Bridge (not state)	PC3
PC14	Private	159	25	1										1.1	2.6			HW and WW (straight out like HW) are made of brick	Local Bridge Both WW falling inward	PC4
PC15	Private	119	22	1										0.8	21	10.3		HW made of bricks, rocks, channels water under bridge	local bridge	PC5
PC16	Adams Twp	405	53	1										1.6	3.8	14.1		HW WW concrete East WW collapsed West WW 4'10" 70'		PC6
PC20	Private (mine company)	2,017	129	1										8.5	6.3	20.5		bridge made of old square timbers-large rocks makes up WW	Mine entrance	PC0
PC21	Railroad Company	165	10	1		road	X							10	2.9	3.5		RCP railroad pipe with WW to channel water in to pipe		PC1
PC22	Richland Twp	589	65	1										2.2	5.5	11.8		HW North WW 6'10" 45 degrees South WW 7'4" at 45 degrees	Skews in from right 45degrees (write)	PC2
PC26	Railroad Company	91	3	1		RR	X							30	1.1	3.0		Tunnel was made using stone blocks (railroad tunnel)	side small tunnel was an unused 4'-5' CMP that would be used for out	PC6





Watershed:  
Completed by:  
Checked by:  
Date(s):

Stonycreek

BoX Culverts Calculation Sheet

T= Amount of fill  
D= Diameter  
HT = Height  
W = Width  
PW = Pier Width (if applicable)  
msry = Stone Masonry Structure  
CMP = Corrugated Metal Pipe  
CPP = Corrugated Polyethylene Pipe  
BCCMP = Bituminous Coated Corrugated Metal Pipe

Map ID #	Owner or Address of Obstruction	Capacity (CFS)	Area (SQ. FT)	Nos. of?	Opening		Measurements										NOTES	ID No Space		
					Type	Shape (°)	Part of Bridge?	Culvert Purpose	Culvert	Bridge	T (ft)	D (ft)	HT (ft)	W (ft)	PW (ft)	skew angle				
																			□	○
SC20	Ogle Twp	2,171	230	1	X			X			2.5	5.4	42.5				steel beam bridge with wooden decking west WW 14.5 at 30 degrees East WW 6.5 at 30 degrees	WW and HW constructed at stone blocks	SC0	
SC28	Private	693	80	1	X			X			2	5.0	16.0				bridge made of wooden supports and decking east WW 5.35 at 30 degrees West WW 13' at 45 degrees	HW and WW are msry	SC8	
SC30	Ogle Twp	1,868	161	1				X			4.6	3.9	41.3	105.0			concrete	streams skews in from right	SC0	
SC31	State Rt 56 (Ogle twp)	2,795	223	1				X			5.4	4.5	49.5				concrete		SC1	
SC32	Ogle Twp	634	76	1				X			2	3.9	19.5				open grate bridge with steel supports both wws 8' at 60 degrees		SC2	
SC33	Private (w/under sportsmans Club)	234	34	1				X			1.5	2.0	17.0				bridge supports are steel pipes declaiming is made of wood		SC3	
SC34	Private (w/under sportsmans Club)	171	30	1				X			1	1.5	20.0				Wooden bridge (walkway)		SC4	
SC35	State Rt. 56 (Ogle Twp)	329	30	1		road	X				4	4.0	7.5	135.0			South WW 6' at 90 degrees North WW 16.5' at 30 degrees	opening is at bottom of concrete HW 7.5' wide by 3.5' high	SC5	
SC42	State Rt. 160 Paint Twp	2,187	187	1	s			X			4.5	4.8	39.0				South WW 10' at 90 degrees North WW 8.2' at 60 degrees		SC2	
SC49	Shade Twp	4,378	440	1	X			X			2.2	8.8	50.0				East WW 8' at 90 degrees, West WW 12' at 45 degrees		SC9	
SC50	State Penn Dot	5,564	424	1	X			X			4.5	12.0	35.3	110.0			South WW 15' at 90 degrees North WW 13.5' at 30 degrees	WW concrete	SC0	
SC51	State Penn Dot	365	40	1		road	X				2.2	5.7	7.0	120.0			North WW 7' at 90 degrees, South WW 9' at 30 degrees	msry	SC1	
SC62	PennDot State Rt. 160	2,853	231	1	X			X			5	5.5	42.0	60.0			concrete		SC2	
SC63	Shade Twp	5,408	415	1	X			X			4.7	10.5	39.5				East WW 21' at 45 degrees, West WW 15' at 45 degrees	and WW concrete	SC3	
SC67	State Gamelands 228	300	44	1	X			X			1.3	3.0	14.5				decking made of wood beams along with support beams		SC7	
SC68	Shade Twp	1,159	133	1	X			X			2	5.3	25.0	60.0			West WW 9' at 80 degrees East WW 12' at 30 degrees		SC8	
SC76	State Rt. 160	356	43	1	X			X			1.8	5.0	8.5	135.0			North WW 5' at 90 degrees concrete		SC6	
SC80	Jenner Twp (Jenners)	461	88	1	X	road	X					5.5	16.0				msry 2 WWs N WW 17' S WW 12'	Creek runs along north WW before going in bridge	SC0	
SC81	Penn Dot 601 South	52	14	1		road	X					3.0	4.5	60.0			Concrete North WW 6' HW 4.5' high	HW 10' wide water hits WW before going in	SC1	
SC83	State Gamelands	1,066	158	1	X			X			1	4.4	36.0				steel support beams with wooden decking		SC3	
SC88	State Gamelands	219	40	1	X			X			0.8	2.0	20.0				bridge made of wooden beams and boards (walkway)		SC8	
SC92	Railroad	2,847	220	1	X			X			4.5	11.0	20.0				HW and WW make of concrete Both WW 17' at 90 degrees		SC2	
SC93	Central City/Shady twp Park	893	64	2	X			X			0.8	5.8	11.0	0.4			pipe made of steel I beams	3' high X 6' wide pile of debris in front of pier	SC3	
SC95	State Rt. 160 Shade Twp	5,865	420	1	X			X			5.7	10.5	40.0				Both WW 17' at 90 degrees HW and WW constructed of concrete		SC5	
SC99	Paint Twp	590	65	1		road		X			2	6.5	10.0	60.0			concrete HW and WW west WW 8' at 30 degrees East WW 11' at 30 degrees		SC9	
SCR10	Alley Down from SC 9 (Dale)	1,909	270	1	X	road		X				10.0	27.0	60.0			same	Typical city culvert	SCR0	
SCR100	Conemaugh Twp Pine Street Davids	445	78	1		road	X					6.5	12.0				Concrete Msry 2 WWs - each SW-9' high	No fill above HW water flowing well	SCR00	
SCR11	Ash Street Dale/Hornerstown	3,465	490	1	X	road		X				10.0	49.0	30.0			same	there are 2, 4, 6, 8 and 10 foot markers on the SW water stains up	SCR1	
SCR12	McMillen Street Hornerstown	2,051	290	1	X	road		X				10.0	29.0	45.0			cement bottom cement SW 10' high	Typical city culvert	SCR2	
SCR13	Oak Street Hornerstown	1,811	270	1	X	road		X				9.0	30.0	45.0			same	same	SCR3	
SCR14	Dale Annie Street	3,668	455	1	X	road		X				13.0	35.0	45.0			same N SW is msry	same	SCR4	
SCR15	Dale Messenger Street	1,570	234	1	X	road		X				9.0	26.0	same			same N SW is -8' not 10'	same	SCR5	
SCR16	Dale Bedford Street	2,611	352	1	X	road		X				11.0	32.0	45.0			same HW 15' SW -12' high	same	SCR6	
SCR17	Dale Jacoby Street (top)	2,121	300	1	X	road		X				10.0	30.0	same			same SW 10' high	same	SCR7	
SCR18	Dale near running club just up from SCR 17	1,909	270	1	X	road		X				10.0	27.0	60.0			same, SW goes from 12' to 8' just upstream	same	SCR8	
SCR19	Dale	2,928	350	1	X	road		X				14.0	25.0				same SW -7'each	old WW still in place, above WW (not in play)	SCR9	
SCR20	Ramp West Widman Street (Dale)	791	50	1		road ramp	X				9	5.0	10.0	45.0			solid concrete HW 7' WWW 6' EWW 8'	hits W WW/HW corner then goes under	SCR0	
SCR21	Falls Run Conemaugh Twp	3,333	342	1		road	X					19.0	18.0	?			solid cement no HW 2WW 25' each	see drawing!	SCR1	
SCR24	Richland Twp	482	85	1		road	X				0	6.5	13.0	60.0			solid concrete HW E WW 13' 10' W SW 10.5'	looks new, solid	SCR4	
SCR28	Penn Dot Expressway 56	3,057	160	1		2 roads	X				13	8.0	20.0	15.0			solid concrete HW 10' W SW 16.5' long E WW 20' long	runs along WW, then goes under dirt road, then 56'	SCR8	
SCR3	Southmont Boro	593	75	1		road	X				1.5	5.0	15.0				cement channel 7' whole length of channel in neighborhood	it is a stormwater control area, man made, fenced off	SCR	
SCR36	Geistown Demuth Street	1,035	175	1		road	X				0	7.0	25.0				(over)	area is fenced off. Culvert is large	SCR6	
SCR38	Geistown Scalp Avenue	580	98	1		road	X				0	7.0	14.0	45.0			solid concrete HW 9.5' N SW S WW 14'	water gits WW, then goes under	SCR8	
SCR5	Parking Lot (near McCort)	621	105	1		Parking Lot	X					7.0	15.0				Msry Cement Bottom HW 9' SW xE end up to next sheet	Culvert is bell shape msry solid	SCR	
SCR6	Memorial Hospital	580	98	1		road	X					7.0	14.0				street	Much like SC4 and SC5	SCR	
SCR7	Memorial Hospital	557	88	1		Road (Alley)	X					0.0	8.0	11.0	75.0			all cement, cement bottom no HW SW 8' high extends for 100' of feet	normal city culvert	SCR
SCR8	Lunen/Messenger Int.	1,284	217	1	X	road		X				7.0	31.0	45.0			all cement, cement bottom SW endless no HW	Typical city culvert sign says "combined overflow"	SCR	
SCR9	Dale/Hornerstown	1,417	224	1	X	road		X				8.0	28.0	60.0			same as above SW-10' high	Typical city culvert	SCR	
SCR101	PennDot 219 Entrance Davidsville	3,426	122	1		road	X				30	9.0	13.5				Concrete 2 WWs -12' Each HW 11'	Half Moon Culvert	SCR101	
SCR102	PennDot 403	551	90	1		road	X					7.5	12.0				MATT IS HARDWARE	DIFFERENT STRUCTURE * SEE DRAWING	SCR102	
SCR107	Conemaugh Twp	179	40	1		road	X					4.0	10.0	45.0			Water Very Low		SCR107	
SCR109	Conemaugh Twp bridge going over Stonycreek	18,421	1,046	2	X			X				15.5	67.5	3.0			Msry-concrete 2 Wws Sww 17' NWW 20'	Surrounded by Large Boulders	SCR109	
SCR110	PennDot 219	2,010	117	1		road	X				10	9.0	13.0				Msry-Concrete HW-11.5 High	WW-15' Wide NWW-12' Wide Water hits south WW going under bridge	SCR110	
SCR111	PennDot 403	592	108	1		road	X					6.0	18.0				Concrete WWW-15' EWW-24' HW-10.5' high	Water Hits EWW Before going under culvert	SCR111	
SCR112	Twp (Holsopple)	628	140	1		road	X					7.0	20.0				Concrete 8' high goes along 403-100 +	Water is low opposite SW runs into house	SCR112	
SCR116	RR Benson	42,000	2,100	2	X	RR	X				X	20.0	155.0	9.0			solid cement HW 9.5' E SW 10' high 100' long S SW 6' high	90% of flow goes under south end	SCR116	
SCR117	Benson	500	100	1		road	X					5.0	20.0				100+ long	E SW msry W SW rip rap then msry SW are retaining walls for yards	SCR117	
SCR121	601 Penn Dot	27,426	1,510	2		road		X				16.5	91.5	3.0			solid cement E WW 18' WWW23'	good shape	SCR121	

**Watershed:**

**Stonycreek**

**Box Culverts Calculation Sheet**

Completed by:  
Checked by:  
Date(s):

T= Amount of fill  
D= Diameter  
HT = Height  
W = Width  
PW = Pier Width (if applicable)  
msry = Stone Masonry Structure  
CMP = Corrugated Metal Pipe  
CPP = Corrugated Polyethylene Pipe  
BCCMP = Bituminous Coated Corrugated Metal Pipe

Map ID #	Owner or Address of Obstruction	Capacity (CFS)	Area (SQ. FT)	Nos. of?	Opening		Measurements											NOTES	ID No Space	
					Part of Bridge?	Culvert Purpose	Shape (✓)				T (ft)	D (ft)	HT (ft)	W (ft)	PW (ft)	skew angle				
							□	○	⌒	⌒										
SCR122	601 Penn Dot	173	33	1		road			X	0		5.5	6.0					RCP cement HW 16" wide 6' high	little water	SCR122
SCR126	Creek Penn Dot 403	310,405	5,355	4	X				X			42.0	127.5	3.5	30.0			msry-concrete	bridge goes over creek and railroad	SCR126
SCR127	Penn Dot 403	857	63	1		road	X			6		7.0	9.0					Concrete Msry HW 9" high	Cement bottom 2 WWs-15' high	SCR127
SCR128	Penn Dot 403	19,748	1,071	2	X				X			17.0	63.0	3.5				Concrete HW 21" high	E WW 21" wide W-SW	SCR128
SCR130	Roadroad Bridge adjacent to Pennsylvania State University	1,757	210	1	X				X			14.0	15.0					Msry No WWs No SWs		SCR130
SCR135	Bridge	10,119	1,600	1	X				X			8.0	200.0	6.0				Msry	Bridge has road underneath it	SCR135
SCR136	Hooversville Borough Twp	15,337	990	2	X				X			12.0	82.5	4.0				Concrete	75% flow of water going under east end of bridge	SCR136
SCR139	Penndot 403 South, Hooversville	741	130	1		road	X					6.5	20.0					concrete, water flowing well 2 wws-6' each	nt culvert spewing mine water in to the stream before running under	SCR139
SCR140	Hooversville	635	121	1	X				X			5.5	22.0					Msry- bridge build on steel with supporting msry	2 wws-17' each-msry	SCR140
SCR142	Penn dot 403 Hooversville	139	29	1		road	X					4.5	6.5					concrete HW 6' high	2 WWs 6' N WWs mostly buried by till. Steam is low	SCR142
SCR143	Hooversville	394	72	1		road	X					6.0	12.0					Concrete 2 low angle WWs 6'each		SCR143
SCR145	Private	1,316	208	1	X				X			8.0	26.0					Built out of wood over old bridge		SCR145
SCR146	RR near Hooversville	42,360	2,160	2	X				X			20.0	283.0	4.0	45.0			Msry-concrete	95% of water flows under north end	SCR146
SCR153	Penndot 403	592	108	1	X				X			6.0	18.0					Concrete 2 wws-10' each HW 8.5 high	Bridge falling apart, old	SCR153
SCR154	Railroad Bridge Shade Twp	538	91	1	X				X			7.0	13.0					Concrete- AMD		SCR154
SCR155	Railroad Along	32	10	1	X	road	X					2.0	5.0					Concrete	Pond Discharge and stream combine under railroad culvert	SCR155
SCR158	Shade Twp Railroad Bridge	1,224	165	1	X				X			11.0	15.0					MSRY Holds up site built of used and steel AMD		SCR158
SCR159	Paint Twp Railroad Bridge	70	26	1	X				X			1.5	17.0					MSRY holds up side, built of wood and steel		SCR159
SCR160	Paint Twp Culvert Running under rail	634	95	1		road	X					9.0	10.5					Concrete 2 WWs-16' each HW-12' high	Stream is clear waterfall (manmade) in front of culvert	SCR160
SCR161	Conemaugh Twp Railroad culvert	30	24	1		road	X					3.0	8.0					Concrete ESW-7'wide WSW-4'wide	HW-5' high	SCR161
SCR162	Conemaugh Twp Railroad	90,053	3,360	1	X				X			16.0	210.0	8.0	60.0			Msry holds up concrete structure-built of wood and steel	American Bridge Co. 1916 2 WWs-30' each	SCR162
SCR163	running over	7,902,532	35,700	7	X	high wall			X			200.0	178.5	10.0				Concrete over RR and Stonycreek	right estimated Pier to Pier 200 7 Piers end piers ~100' away from b	SCR163
SCR165	630 Tire Hill Rd, Windauv sign company (out of order) Tire Hill	1,214	192	1	X	road			X			8.0	24.0					Concrete W SW -15'	Flowing well	SCR165
SCR166	Stoystown	20,227	997	2	X				X			21.0	47.0	3.0				solid cement 2 WW 25' each	80% WWs under east end of pier	SCR166
SCR167	Rt 30 Stoystown	5,011	374	2	X				X			9.0	41.5	3.0				solid cement HW 12' 2 WWs 15' each	all the creek WWs under east end pier falling apart	SCR167
SCR168	Stoystown	7,179	968	1	X				X			11.0	88.0					Iron/wood bridge msry WW 24' each	built in 1887 stills looks good	SCR168
SCR170	403 Stoystown over stonycreek	27,038	1,387	2	X				X			19.0	73.0	3.0				Steel bridge with cement WW N SW 25' S WW 30'	old, but solid	SCR170
SCR171	Penn Dot 281	2,733	231	2	X				X			7.0	33.0	3.0	45.0			solid concrete HW 11' N SW 12' S WW 16'	HW cement breaking up	SCR171
SCR172	Quemahoning Twp	6,363	888	1	X				X			11.0	78.0					solid concrete HW 15' E WW 18' W WW 9'	majority of flow runs under E end	SCR172
SCR174	Quemahoning Twp	3,960	560	1	X				X			10.0	56.0					solid concrete HW 14' W WW 18' E SW 18'	good 1964	SCR174
SCR175	Private 2 House	1,038	182	1	X				X			6.5	28.0					concrete/iron 2 WW 5' each	stream channel upstream has a lot of vegetation over it	SCR175
SCR181	Conemaugh Twp Railroad	3,704	380	1		road	X					19.0	20.0					Masonry 2 SWs 25' each	looks fine	SCR181
SCR182	Railroad	1,562	20	2	X	road	X			60		5.0	4.0	6.0				MSRY-S WW-20' Wide HW 15' high/28' wide	All water going under south side	SCR182
SCR183	PennDot 403	2,121	300	1	X				X			10.0	30.0					Concrete 2 WWs 14' each HW 13 h high	Large boulders on both sides of stream	SCR183
SCR184	Shade Twp	2,354	311	1	X				X			11.5	27.0					Concrete built over bricks WWV 20' Wide HW 15.5' high	E SW 15' wide	SCR184
SCR185	Shade Twp	235	50	1		road	X					4.5	11.0					Concrete 2 WWs 10' Each HW 6' high	Looks fairly new, constructed well	SCR185
SCR190	Shade Twp	1,746	268	1	X				X			8.5	31.5					Msry S WW 12' N WW 9' Wooden bridge build on I beams	ms heavily rusted, plants coming off, beams loose, bridge in bad con	SCR190
SCR193	Penn Dot 403	19,172	662	4	X				X			10.5	63.0	3.0	45.0			concrete HW 14' E SW 17' W WW 34'	creek runs 75% under E half log jam on easternmost pier	SCR193
SCR200	RR Shade Twp	3,897	225	2	X	RR			X			15.0	15.0	4.0				concrete piers, brick stringers	under south end mainly, north end backed up with wood and gravel at	SCR200
SCR201	Railroad bridge	17,173	1,920	1	X				X			16.0	120.0					each	WWs built out of Msry bridge has steel arches old but still looks good	SCR201
SCR202	Railroad bridge	3,960	560	1	X				X			10.0	56.0		45.0			Concrete built of wood and steel E WW 16' Wide WSW 8' wide		SCR202
SCR203	Railroad bridge	4,242	572	1	X				X			11.0	52.0					msry holds up sides	good	SCR203
SCR204	RR	418	80	1	X				X			5.5	14.5		60.0			cement holds up sides, steel top	good	SCR204
SCR205	RR	5,660	702	1	X				X			13.0	54.0		15.0			Concrete holds up bridge SW 60'	Water hits SW before running under bridge	SCR205
SCR206	RR	248	42	1		RR	X					7.0	6.0					Concrete HW 10' high WWV 22' wide ESW 14 wide	Water runs along WW before going under culvert	SCR206
SCR207	RR	1,556	273	1	X				X			6.5	42.0					Concrete abutments hold up bridge		SCR207
SCR208	RR	2,015	285	1	X				X			10.0	28.5					Bridge Abutments made of msry and concrete	Flowing well	SCR208
SCR212	Conemaugh Twp, Conemaugh Twp (Kriings)	42,000	2,100	2	X				X			20.0	105.0					Concrete Steel beamed bridge	most water flowing in north end of bridge bridge built in 1936	SCR212
SCR213	Railroad	132	32	1		RR	X					3.5	9.0					Concrete HW 5.5' high 2 SWs eXtend 25' to highway culvert	Nothing really flowing in creek	SCR213
SCR214	Railroad Bridge Ferndale	45,079	1,680	3					X			16.0	105.0	6.0				Concrete base bridge built out of steel and wood.		SCR214
SCR215	PennDot Eisenhower BLVD	45,000	2,250	2					X			20.0	112.5	4.0				Concrete base bridge built out of steel		SCR215
SCR216	Abandoned Railroad Bridge	24,683	1,450	4					X			14.5	100.5	10.0	30.0			Built on concrete foundation wood and steel	Built by Bethlehem Steel Co. 1923 Bridge is old and Deteriorating	SCR216
SCR224	RR Richland Twp	105	27	1		RR	X			0		3.0	9.0					concrete HW 8' high 2 SW 4' each	east SW cracked -1/2 washed away	SCR224
SCR225	RR Richland Twp	4,192	520	1		RR	X			0		13.0	40.0		45.0			Steel I beams, steel top, N WW 14 S WW12'	W eXtends from S WW another 26' creek hits N WW then goes und	SCR225
SCR226	Penn Dot Franklin street	59,943	5,472	1	X				X			24.0	228.0					Concrete E WW 16' W SW 24'	Steel beamed bridge	SCR226
SCR40	Geistown	105	27	1		road	X					3.0	9.0					msry HW 4' high	wooden sidewalks go on for 100s of feet	SCR40
SCR41	Geistown	456	77	1		road	X			0		7.0	11.0					solid cement HW 9.5' Cement bottom	cement SW run about 80' long 5' WW on end of SW	SCR41
SCR44	PENNDOT 403	919	150	1		road	X					7.5	20.0					msry-concrete 2HWs-11' high	WW- 10' (East) Cracked 1 SW-8' (West) Bridge is old, water flowing	SCR44
SCR45	Conemaugh Twp	1,305	175	1	X				X			11.0	16.0					Msry-concrete 2WWs-15' each	Water hits S-WW before going under bridge	SCR45
SCR47	Conemaugh Twp	849	144	1	X				X			7.0	20.5		45.0			msry-concrete HW-12' N-WW-4'	Small Waterfall Under bridge	SCR47
SCR48	Private	373	63	1	X				X			9.0	9.0					(E) WW-11' Wide (W)-10' Wide-buried	Wooden Bridge	SCR48
SCR49	Private	580	98	1	X				X			7.0	14.0					Concrete EWW-7wide		SCR49
SCR68	Pricate	300	60	1		road	X					5.0	12.0					Concrete-HW-7.5, 2WWs 10'	Flowing well	SCR68
SCR69	Private	213	43	1	X				X			5.0	8.5					Concrete SSW-8' NWW-8'		SCR69
SCR70	Conemaugh Twp	400	80	1		road	X					5.0	16.0		45.0			Concrete E(SW)-7wide HW-7'High	W (WW)-14' Wide Water hits WW Before Going under Bridge	SCR70
SCR73	Conemaugh Twp	109	15	1		road	X			1.5		3.0	5.0					Masonry-no SWs HWs		SCR73
SCR74	PENNDOT 403	550	110	1	X				X			5.0	22.0		45.0			Concrete-S WW-12 wide, SW 8' high	N-SW-8' Buried	SCR74
SCR75	PENNDOT 403	559	102	1		road	X					6.0	17.0		30.0					





**Watershed:**

**Stonycreek**

BoX Culverts Calculation Sheet

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msry = Stone Masonry Structure  
CMP = Corrugated Metal Pipe  
CPP = Corrugated Polyethylene Pipe  
BCCMP = Bituminous Coated Corrugated Metal Pipe

Map ID. #	Owner or Address of Obstruction	Capacity (CFS)	Area (SQ. FT)	Nos. of?	Opening				Measurements							material	NOTES	ID No Space	
					Type	Shape (°)	Part of Bridge?	Culvert Purpose	Culvert	Bridge	T	D	HT	W	PW				skew angle
SR42	Brothersvalley Twp	2,600	130	2	X				X	2.7	6.5	20.0	0.8				North WW 11.3' at 60 degrees South WW 17.3' at 60 degrees HW and WW concrete	SR2	
SR48	Stonycreek Twp	903	56	1	X				X	2.3	4.5	12.5					HW WW msry Both WW 7' at 70 degrees	SR8	
SR52	Stonycreek Twp	3,557	288	1	X				X	4.3	9.0	32.0					HW and WW concrete East WW 33.5' at 45 degrees West WW 19' at 45 degrees	SR2	
SR54	Stonycreek	8,075	695	1	X				X	3.4	10.0	69.5					HW and WW concrete Both WW 19' at 60 degrees	SR4	
SR55	Stonycreek	5,135	514	1	X				X	2.7	8.5	79.0					wood decking with stone	SR5	
SR6	Brothersvalley Twp	511	52	1		road	X			3	4.5	11.5					HW and WW concrete both WW 9.5' at 70 degrees	SR	
SR60	State Rt	272	30	1	X				X	2.5	4.0	7.5		120.0			7.5' at 45 degrees	SR0	
SR61	Private	187	25	1	X				X	1.75	2.2	11.5					Bridge has steel support beams and wood timber decking	SR1	
SR62	Private	531	65	1	X				X	1.75	4.5	14.5					Steel support beams with concrete decking	SR2	
SR64	State Rt.	283	34	1	X				X	2.2	3.2	10.5					HW and WW concrete South WW 7.3' at 30 degrees North WW 6' at 30 degrees	SR4	
SR66	Stonycreek Twp Glessner	10,665	533	2	X				X	1.3	13.5	39.5	3.0				Covered bridge West SW 29'	SR6	
SR67	Stonycreek Twp	2,155	184	1	X				X	4	7.5	24.5					North WW 10' at 90 degrees South WW 10' at 45 degrees HW and WW concrete	SR7	
SR68	Stonycreek Twp	201	24	1	X				X	2	4.0	6.0					HW and WW msry East WW 10.3' at 90 degrees West WW 19' at 30 degrees	SR8	
SR69	Stonycreek Twp	251	30	1	X				X	2.2	3.0	10.0		110.0			HW and WW concrete W WW 2' at 30 degrees East WW 4' at 90 degrees	SR9	
SR70	Old RR grade	106	12	1		RR	X			2.7	2.0	6.0		45.0			South WW 3.3' at 60 degrees North WW 10.3' at 60 degrees	SR0	
SR72	Stonycreek Twp	1,332	151	1	X				X	2	5.5	27.5					HW and WW concrete	SR2	
SR73	Railroad	222	23	1		RR	X			3	4.0	5.7					Both WW 5' at 60 degrees HW and WW concrete	SR3	
SR74	Shanksville	14,722	541	2	X				X	5	12.0	45.1	3.2				Both WW 4.5 feet at 90 degrees HW and WW concrete	SR4	
SR75	Shanksville	6,104	273	2	X				X	3	10.0	27.3	3.0				North WW 3.3' at 60 degrees South WW 2.4' at 60 degrees	SR5	
SR79	Stonycreek Twp	221	24	1	X				X	3	2.0	12.0		120.0			WW and HW concrete	SR9	
SR8	Private Owned	169	30	1	X				X	0.75	2.7	11.0					Concrete decked bridge	SR	
SR81	Stonycreek Twp	703	84	1	X				X	2	4.0	21.0					small walkway with steel beams and concrete deck	SR1	
SR86	Stonycreek Twp	2,956	259	1	X				X	3.5	8.5	30.5					North WW 12' at 60 degrees South WW 15' at 60 degrees	SR6	
SR88	Somerset Twp	2,461	183	1	X				X	6	6.3	29.0					HW and WW concrete Both WW 15.5' at 15 degrees	SR8	
SR93	Somerset Twp	263	40	1	X				X	1.5	2.5	16.0					at 10 degrees	SR3	
SR94	Railroad Company (csX)	1,009	85	1	X				X	4.5	5.5	15.5					open grate bridge HW msry	SR4	
SR95	Somerset Twp	2,200	220	1	X				X	2	10.0	22.0					West WW 15' at 45 degrees	SR5	
SR96	Railroad Company (csX)	3,404	252	1	X				X	5.5	9.0	28.0					old roadways channel water in and out about 1/2 mile and go up stream about 80'	SR6	
SR97	Somerset Twp	1,279	138	1	X				X	2	7.3	19.0		45.0			South WW 10' at 90 degrees North WW 15' at 90 degrees	SR7	
																	East WW 22' at 120 degrees West WW 24' at 30 degrees		



**Box Culvert / Box Bridge Capacity Calculation Sheet**  
**Watershed: Stonycreek**

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					Part of Bridge?	Culvert Purpose	Shape (✓)					T (ft)	D (ft)	HT (ft)	W (ft)	PW (ft)				skew angle
							□	O	○	⌒	⊓									
BC103	Upper Yoder Twp	161	7.07	2		road		x				4	3.0					2 CMP fenced rip rap HW 7' high 18' wide	nearly all water goes in S pipe	BC03
BC104	Penn Dot	459	28.27	1		road		x				8.5	6.0					RCP	large tree lies in front	BC04
BC111	Conemaugh Twp	23	3.14	1		road		x				1.5	2.0					RCP looks fine		BC11
BC112	Conemaugh Twp	15	3.14	1		road		x				0.25	2.0					SP		BC12
BC116	Upper Yoder Twp	50	7.07	1		road		x				1	3.0					RCP	Flowing well	BC16
BC117	Upper Yoder Twp	26	3.14	1		road		x				2	2.0					CMP	Flowing well	BC17
BC123	Conemaugh Twp	20	3.14	1		road		x				1	2.0					RCP	loose stone packed around pipes	BC23
BC124	Penn Dot	50	7.07	1		road		x				1	3.0					RCP - Ties to storm inlet	top of pipe cut in half moon shape	BC24
BC127	Private	126	19.63	1		road		x					5.0			45.0		CMP loose stone HW 6' high 18' wide		BC27
BC128	Private	175	19.63	1		road		x				1.5	5.0					SP		BC28
BC131	Jenner Twp	26	3.14	1		road		x				2	2.0					RCP		BC31
BC132	Penn Dot Somerset Pike	13	3.14	1		road		x				0	2.0					NSW 7' Wide HW 3.5' high/wide		BC32
BC133	Jenner Twp	38	4.91	1		road		x				1.5	2.5					RCP	CPP running through RCP flowing well	BC33
BC134	Jenner Twp	26	3.14	1		road		x				2	2.0					RCP		BC34
BC136	Jenner Twp	17	3.14	1		road		x				0.5	2.0					CPP		BC36
BC137	Jenner Twp	34	3.14	1		road		x				4	2.0					RCP	Patchy Stone HW 20'	BC37
BC139	Jenner Twp	32	3.14	1		road		x				3.5	2.0					RCP		BC39
BC141	TWP	23	3.14	1		road		x				1.5	2.0					RCP		BC41
BC16	Conemaugh Twp Back Shaffer Bridge	62	7.07	1		road		x				2	3.0			10.0		CMP over flow noticed	Top of pipe smashed ~10 inches large stick obstruction	BC6
BC18	Conemaugh Twp Back Shaffer Bridge	50	7.07	1		road		x				1	3.0					CMP	smashed in on top	BC8
BC23	Conemaugh Twp	144	7.07	2		road		x				3	3.0			1.0		2 CMP concrete covered	small trickle looks more like a swamp area	BC3
BC26	Conemaugh Twp gold course	100	9.62	1		road		x				3	3.5			60.0		CMP rocks around it	left side dented in slightly	BC6
BC34	Private	97	12.57	1		drive way		x				1	4.0					CMP 40% of pipe blocked by stream rd	pipe is not blocked inside just in mouth surrounded by rocks	BC4
BC36	Private	198	28.27	1		drive way		x					6.0					CMP west wall has rocks	Pipe is 100 % clear looks fairly new	BC6
BC38	Conemaugh Twp	133	12.57	1		road way		x				3	4.0					CMP pipe is clear	pipe surrounded by rocks rip rap on other side fell down	BC8
BC39	Conemaugh Twp	250	23.76	1		road way		x				2.5	5.5					CMP pipe is clear surrounded by rocks vegetation	1'x1' pipe adjacent to CMP without water pipe is CPP	BC9
BC41	Private	250	12.57	2		drive way		x				2.5	4.0					2 CMP 2 WW HW 10' high	pipes cased in cement masonry	BC1
BC44	Private	83	5.94	2		road		x				1.00	2.8					CPP in good condition CMP bottom rusted out	water flows through each equally	BC4
BC47	Private	223	19.63	1		Drive		x				3.5	5.0					Steel pipe encased in stone	Encased with stone sidewalls	BC7
BC52	Conemaugh Twp	50	7.07	1		road		x				1	3.0					SP encased in stone 1 WW	Stone WW NE 12'	BC2
BC53	Penn Dot	232	15.90	1		road		x				7	4.5					RCP pipe is clear, surrounded by stone		BC3
BC55	Conemaugh Twp	233	23.76	1		road		x				2	5.5					RCP 1 WW/1 SW 1 HW 7' E WW 7' W SW 6.5'	Pipe surrounded by cement	BC5
BC68	Jenner Twp	57	7.07	1		road		x				1.5	3.0					CMP patchy stone around it	looks good	BC8
BC69	Jenner Twp	65	7.07	1		road		x				2.25	3.0					CMP patchy stone around it bottom 1/8 of pipe is rusted out	pipe blocked by wooded debris - 2 1/2" water still runs through though	BC9
BC85	Private Schlosser	72	12.57	1		drive way		x					4.0					CMP HW 5.5' North WW 7' South sidewall is rock ~45' long	looks good for most part	BC5
BC87	Jenner Twp	50	7.07	1		road		x				1	3.0			60.0		CMP loose stone around it	pipe is clear	BC7
BC88	Private	87	9.62	1		drive way		x				2	3.5					CMP looks new	curved stone HW 18' long, top is top of fill (5.5' high)	BC8
BC92	Private	50	7.07	1		road		x				1	3.0			45.0		RCP stone surrounding pipe 8' on both sides and top	AMD	BC2
BC94	Private	31	1.77	2		res		x				2.5	1.5					2 small CPP Headwall (block) curved ~12' on both sides	water goes in to both pipes about equally	BC4
BC97	NF CC	187	9.62	2		shed		x				2.5	3.5					2 CMP gravel fill no WW or HW	west pipe totally blocked by debris from latest rainstorm	BC7

**Box Culvert / Box Bridge Capacity Calculation Sheet**  
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Circular Culverts Calculation Sheet

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Map ID #	Owner or Address of Obstruction	Capacity (CFS)	Area (SQ. FT)	Nos. of?	Opening		Measurements										material	NOTES	ID No Space			
					Part of Bridge?	Culvert Purpose	Culvert Shape (✓)				T (ft)	D (ft)	HT (ft)	W (ft)	PW (ft)	skew angle						
							□	O	○	⌒												
PC1	Richland Twp	70	9.08	1		road		x				1.2	3.4						135.0	CMP flattened inside of pipe		PC
PC10	Adams Twp	54	7.07	1		road		x				1.3	3.0							CMP		PC0
PC11	State Rt. 160	472	45.36	1		road		x				1.75	7.6							CMP North WW 8' at 45 degrees South WW 8' at 80 degrees		PC1
PC12	Adams Twp	62	7.07	1		road		x				2	3.0							CPP smooth inside		PC2
PC17	State (Adams twp)	54	7.07	1		road		x				1.3	3.0							CPP-smooth inside		PC7
PC18	Adams Twp	39	7.07	1		road		x				0.2	3.0							RCP slightly skews before entering 30 degrees		PC8
PC19	Adams Twp	50	7.07	1		road		x				1	3.0							RCP smooth inside	large channel tapers into smooth pipe at entrance	PC9
PC2	Richland Twp	99	7.07	1		road		x				6.5	3.0							CMP skewed to left		PC
PC25	Richland Twp	123	7.07	2		road		x				2	3.0							RCP-flow is more in left pipe than the right		PC5
PC27	Richland Twp	102	12.57	1		road		x				1.25	4.0							CMP slight skew to right due to rocks		PC7
PC28	Richland Twp	115	15.21	1		road		x				0.8	4.4							CMP flattened out on inside of pipe	stream skews in at 45 degrees on right side	PC8
PC29	Windber Twp	91	10.18	1		road		x				2	3.6							RCP deteriorated around ledge medium rock lying in pipe	slightly skewed from right in to pipe(water)	PC9
PC3	Richland Twp	86	11.34	1		road		x				1	3.8							CMP rocks in front channel water into pipe		PC
PC30	Richland Twp	155	5.31	1		road		x				31.5	2.6							T and HW are some height and made of wood. CMP	water enters then channels 31" wide	PC0
PC31	Private (Spiritech)	86	2.01	5		road		x				2.3	1.6					100.0		CPP smooth inside	Private owned (spiritech)	PC1
PC32	Private (Green Achers)	232	12.57	2		road		x				2	4.0							CMP		PC2
PC33	Railroad Company	60	3.63	2		RR		x				2	2.2							Cast Iron Pipe old RR grade	stream makes 90 degree turn into pipe	PC3
PC38	Mine Company	81	7.07	1		road		x				4	3.0							CMP 15% blocked by rocks and logs, north side slightly fell in		PC8
PC39	Mine Company	146	18.10	1		road		x				1	4.8							RCP	mine road	PC9
PC4	Richland Twp	270	21.24	1		road		x				4.5	5.2							CMP		PC
PC40	Paint Twp	333	28.27	1		road		x				3.4	6.0							CMP		PC0
PC41	Railroad Company	302	17.35	1		RR		x				10	4.7							CMP	old RR grade	PC1
PC44	Paint Twp	60	7.07	1		road		x				1.8	3.0							CMP 5' timbering walls out at 60 degrees		PC4
PC45	paint Twp	1554	122.72	1		road		x				2.2	12.5							low concrete HW 1.5' max 1.5' height L WW 6' at 60 degrees W WW 7' at 45 degrees		PC5
PC47	Paint Twp	95	5.52	2		road		x				2	2.7							CMP nmore flow into the North West about 70 degrees in to	rock channel leading into pipe for 50 + feet	PC7
PC48	Paint twp	137	17.72	1		road		x				0.8	4.8							RCP	3/4 of the way through 32' switches from RCP to CMP	PC8
PC49	Private	139	15.90	1		road		x				1.5	4.5							CMP		PC9
PC50	Private	87	3.14	4		road		x				1.2	2.0							CMP 10 degrees blocked by sticks and leaves		PC0
PC57	Private (Thiele)	283	28.27	1		road		x				2	6.0					110.0		smooth on the inside steel pipe (SP)		PC7
PC61	State Rt. 56	197	12.57	1		road		x				8.5	4.0					135.0		Concrete HW concrete block pipe	stream skews in from right of 45 degrees	PC1
PC63	State Rt. 56	191	11.34	1		road		x				10	3.8							Both HWs 1.5' at 90 deg. Concrete block pipe small concrete HW (basically RCP)		PC3
PC7	State Rt. 160	536	34.21	1		road		x				7.6	6.6					70.0		CP South WW 90' at 10 degrees North WW 9.3' at 90 deg	stream makes 90 degree turn into pipe	PC
PC71	Mine/State Forest	141	12.57	1		road		x				3.7	4.0					100.0		RCP		PC1
PC73	Richland Twp	53	1.77	2		road		x				8	1.5							Both CMP		PC3
PC74	Railroad	715	19.63	2		RR		x				11	5.0							CMP both pipes 40% blocked by beaver dam		PC4
PC75	Private	29	1.13	3		road		x				2.5	1.2							All RCP 80% water flowing in middle 1.5' pipe		PC5
PC76	State Rt. 160	36	3.14	1		road		x				4.5	2.0					45.0		RCP		PC6
PC78	Private	22	3.14	1		walkway		x				1.3	2.0							RCP		PC8
PC79	State Rt	20	3.14	1		road		x				1	2.0					105.0		RCP		PC9
PC80	State Rt.	23	3.14	1		road		x				1.5	2.0					30.0		CPP		PC0

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							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
PC81	Private	26	3.14	1		road		x				2	2.0				SP	PC1	
PC82	Private	28	4.15	1		road		x				1	2.3				CMP has wooden channels 75' long as wide as pipe	PC2	
PC83	Private/RR	364	19.63	1		road RR		x				12	5.0				SP HW 7.2' higher than pipe and 18' long	PC3	
PC84	Adams Twp	103	3.14	2		road		x				10	2.0				RCP 60% of water in south pipe due to north pipe being partly clogged 80%	PC4	
PC85	Windber Boro	57	5.73	1		road		x				3	2.7		115.0		RCP 5% blocked by wood	PC5	
PC86	Windber Boro	65	5.73	1		road		x				4	2.7				CMP 10% blocked by rocks	PC6	
QC105	Lincoln Twp	50	7.07	1		road		x				1	3.0				CMP water flowing in to pipe from 2 sides	QC05	
QC106	Penn Dot Somerset Pike	149	9.62	1		road		x				8	3.5				CMP HW 4.5' high 2 WWs 4' each	QC06	
QC107	Jenner Twp	430	19.63	2		road		x				3	5.0				2 CPP 2 WWs 12 each	QC07	
QC113	Jenner Twp	50	7.07	1		road		x				1	3.0				RCP pipe isnt blocked	QC13	
QC114	Jenner Twp	61	7.07	1		road		x				2	3.0				solid concrete HW 4.5' high 10.5' wide	QC14	
QC119	Jenner Twp	67	7.07	1		road		x				2.5	3.0				CPP	QC19	
QC120	Jenner Twp	96	12.57	1		road		x				1	4.0				RCP cement slabs roughly laid out	QC20	
QC121	Jenner Twp	160	19.63	1		road		x				1	5.0		60.0		RCP water coming in well	QC21	
QC122	Jenner Twp	71	9.62	1		road		x				1	3.5				RCP water running in well	QC22	
QC129	Camp Sequanota	47	3.14	2		road		x				1.5	2.0				2 CMP	QC29	
QC132	Private	71	9.62	1		road		x				1	3.5				CPP encased in stone	QC32	
QC133	Private	230	12.57	2		road		x				2	4.0				2 RCP- one pipe is blocked, almost 100%	QC33	
QC135	Jenner Twp	51	3.14	2		road		x				2	2.0		15.0		2 RCPs pipe on west side is blocked	QC35	
QC137	Jenner Twp	33	4.91	1		road		x				1	2.5		5.0		RCP 5% blocked	QC37	
QC147	Lincoln Twp	86	9.62	1		road		x				2	3.5				RCP Stone HW patchy	QC47	
QC150	Lincoln Twp	79	9.62	1		road		x				1.5	3.5				RCP first 5' of pipe is broke	QC50	
QC151	Lincoln Twp	116	12.57	1		road		x				2	4.0				CMP water going in well	QC51	
QC153	Lincoln Twp	35	7.07	1		road		x					3.0				RCP encased in Stoney MSRY	QC53	
QC157	Lincoln Twp	39	7.07	1		road		x				0.25	3.0				RCP	QC57	
QC158	Lincoln Twp	66	7.07	1		road		x				2.5	3.0		15.0		RCP W WW 5' long 4' high MSRY	QC58	
QC16	Conemaugh Twp	72	7.07	1		road		x				3	3.0				CMP stones on both sides support pipe	QC6	
QC160	Lincoln Twp	100	7.07	2		road		x				1	3.0		2.5		2 RCP same size 2 WW 5' each HW 4' high 10' wide	QC60	
QC161	Lincoln Twp	57	7.07	1		road		x				1.5	3.0		45.0		own encased in concrete HW 4.5' high 0.5' wide, 2 WWs 6' each	QC61	
QC167	Lincoln Twp	79	12.57	1		road		x				0.25	4.0				CPP looks new	QC67	
QC170	Lincoln Twp	624	50.27	1		road		x				3.5	8.0				SP looks new	QC70	
QC171	Lincoln Twp	35	7.07	1		road		x					3.0				RCP encased in msry S (SW) 6' HW 4' high	QC71	
QC173	Lincoln Twp	71	9.62	1		road		x				1	3.5				CMP has a SWs N 8' long S 6' long	QC73	
QC180	Lincoln Twp	61	7.07	1		road		x				2	3.0				RCP 5 end had loose rocks around it	QC80	
QC182	Lincoln Twp	133	12.57	1		road		x				3	4.0				CMP-Encased concrete msry HW 11' wide	QC82	
QC184	Lincoln Twp	50	7.07	1		road		x				1	3.0				CMP	QC84	
QC185	Jenner Twp	23	3.14	1		road		x				1.5	2.0				CPP looks okay	QC85	
QC186	Jenner Twp	23	3.14	1		road		x				1.5	2.0				RCP	QC86	
QC187	Jenner Twp	48	4.91	1		road		x				3	2.5		15.0		RCP HW 5' wide 3' high	QC87	
QC188	Jenner Twp	20	3.14	1		road		x				1	2.0				RCP	QC88	

**Box Culvert / Box Bridge Capacity Calculation Sheet**  
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Circular Culverts Calculation Sheet

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T= Amount of fill  
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Map ID.#	Owner or Address of Obstruction	Capacity (CFS)	Area (SQ. FT)	Nos. of?	Opening					Measurements					material	NOTES	ID No Space		
					Part of Bridge?	Culvert Purpose	Culvert			Bridge	T (ft)	D (ft)	HT (ft)	W (ft)				PW (ft)	skew angle
							□	O	○										
QC189	Private_mine	175	19.63	1		road		x				1.5	5.0				SP No HW no SW No WW	flows in well	QC89
QC190	Private_mine	277	12.57	2		road		x				3.5	4.0			75.0	2 RCP same size 2 WW 5'	okay	QC90
QC195	Lincoln Twp	41	4.91	1		road		x				2	2.5				RCP		QC95
QC196	Lincoln Twp	30	3.14	1		road		x				3	2.0				RCP encased in msry S (SW) 6' HW 4' high	2 pipes have discharge coming out in front of pipe	QC96
QC197	Lincoln Twp	41	4.91	1		road		x				2	2.5				RCP 80% water flowing in middle 1.5' pipe	Almost Buried in Sediment	QC97
QC198	Lincoln Twp	23	3.14	1		road		x				1.5	2.0				CMP	metal on top end where water comes in CRT where water come out	QC98
QC199	Lincoln Twp	22	4.91	1		road		x				0	2.5				RCP-concrete HW	HW is cracked fell in creek, water backing up, needs replaced	QC99
QC20	Conemaugh Twp	145	7.07	1		road		x				15	3.0				CMP cement HW 4' 2 WWs 4' each		QC0
QC200	Lincoln Twp	23	3.14	1		road		x				1.5	2.0				CMP pipe is solid		QC00
QC201	Lincoln Twp	94	7.07	1		drive way		x				6	3.0				RCP-MSry HW 5' high 2 SWs-6' wide		QC01
QC203	Lincoln Twp	45	3.14	1		road		x				7	2.0				CMP 25% blocked with rocks and sticks	large rocks used as fill	QC03
QC204	PennDot 601	23	3.14	1		road		x				1.5	2.0				CPP	Swampy Area	QC04
QC205	Lincoln Twp	43	7.07	1		road		x				0.50	3.0				RCP		QC05
QC207	Lincoln Twp	42	4.91	1		road		x				2	2.5				BCCMP looks new		QC07
QC208	Jenner Twp	26	3.14	1		road		x				2	2.0			30.0	RCP		QC08
QC210	Quemahoning Twp	57	4.91	2		road		x				0.5	2.5				2 pipes same size one CPP 1 pVC	Nothing in PVC unless water is puddled up high enough	QC10
QC213	Conemaugh Twp	34	4.91	1		road		x				1	2.5				CPP blocke with Debris	stream channel blocked with debris water not flowing	QC13
QC214	Conemaugh Twp	17	3.14	1		road		x				0.5	2.0				CPP	Channel overgrown with weeds	QC14
QC215	Jenner Twp	20	3.14	1		road		x				1	2.0				RCP	creek channel is dry	QC15
QC217	Jenner Twp	17	3.14	1		road		x				0.5	2.0				RCP	pipe skewed to road 45 degrees	QC17
QC218	Quemahoning Twp	20	3.14	1		road		x				1	2.0				RCP	good	QC18
QC219	Quemahoning Twp	34	4.91	1		road		x				1	2.5				CPP	good	QC19
QC220	Quemahoning Twp	17	3.14	1		road		x				0.5	2.0				CPP	good	QC20
QC221	Quemahoning Twp	17	3.14	1		road		x				0.5	2.0				SP	large rocks in front pipe blocks ~25%	QC21
QC222	Jenner Twp	28	3.14	1		road		x				2.5	2.0				RCP	good	QC22
QC223	Jenner Twp	33	4.91	1		road		x				1	2.5				RCP	area very swampy	QC23
QC224	Jenner Twp	26	3.14	1		road		x				2	2.0				CMP	Area Swampy	QC24
QC228	Jenner Twp	22	4.91	1		road		x				0	2.5				RCP-2.5' Dia. CPP now installed	okay	QC28
QC229	Jenner Twp	28	3.14	1		road		x				2.5	2.0				RCP	okay	QC29
QC230	Jenner Twp	20	3.14	1		road		x				1	2.0				RCP	Okay	QC30
QC231	Penn Dot 210	212	12.57	1		219		x				10	4.0				concrete culvert HW 6' high 2 WW 6' each		QC31
QC232	Jenner Twp	35	3.14	1		road		x				4	2.0				CMP	okay	QC32
QC235	Abandoned Railroad	254	12.57	1		RR		x				15.0	4.0				SP concrete HW 7' HW	HW 16' W	QC35
QC238	Abandoned railroad	79	7.07	1		RR		x				4	3.0				SP HW 10' wide/4.5' high concrete HW	water backed up pipe is blocked	QC38
QC240	Private Boswell Res	41	4.91	1		road		x				2	2.5			60.0	RCP	Solid	QC40
QC243	Private	217	23.76	1	x	Drive Way		x				1.5	5.5				SP	good shape	QC43
QC33	Jenner Twp	107	12.57	1		road		x				1.5	4.0				CMP No HW no WW	Top 1/5 crushed, broken	QC3
QC40	Jenner Twp	123	12.57	1		road		x				2.5	4.0				solid cement HW 10' wide 5' high	gentleman has 12' CPP that carries stream in to culvert	QC0
QC42	Penn Dot Somerset Pike	71	7.07	1		road		x				3	3.0			45.0	solid cement HW 6' N WW 5' S SW 5'	looks okay	QC2
QC43	Private Farm	170	12.57	1		drive way		x				6	4.0				RCP	solid	QC3

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					Part of Bridge?	Culvert Purpose	Culvert Shape (✓)			T (ft)	D (ft)	HT (ft)	W (ft)	PW (ft)				skew angle	
							□	O	⊖										
QC47	Jenner Twp	111	9.62	1		road		x				4	3.5				CMP encased with concrete 2 WW 7' each HW 4.5'	Long pipe comes from pond in to culvert (Over)	QC7
QC53	Jenner Twp	56	7.07	1		road		x				1.5	3.0				RCP No HW, No WW, No SW	looks okay	QC3
QC57	Jenner Twp	50	7.07	1		road		x				1	3.0			0.0	RCP No HW, No WW, No SW	no water running through, yard looks like a swamp	QC7
QC67	Private	71	9.62	1		road		x				1	3.5				RCP patchy stone HW 9' wide 4' high	swampy area	QC7
QC71	Jenner Twp	35	7.07	1		road		x					3.0			60.0	msry cement bebris and brush blocking front	N WW 5' S WW 7'	QC1
QC76	Jenner Twp	79	7.07	1		road		x				4	3.0				RCP loose stone piled around pipe	break in pipe around 5 feet	QC6
QC77	Jenner Twp	66	7.07	1		road		x				2.5	3.0				RCP water flowing well		QC7
QC83	Quemahoning Twp	81	7.07	1		road		x				4	3.0				CPP with concrete HW broken in half and slumping in	rocks on both sides pipe filled about 25% with debris	QC3
QC85	Lincoln Twp	161	19.63	1		road		x				1	5.0				CMP water flowing well	rocks around sides	QC5
QC88	Lincoln Twp	61	7.07	1		road		x				2	3.0				RCP pipe is blocked 50% with debris	Stones on top and sides pipe is old needs replaced	QC8
QC89	Lincoln Twp	55	7.07	1		road		x				1.4	3.0				CMD large gravel deposit upstream		QC9
QC93	Lincoln Twp	576	50.27	1		road		x				2.5	8.0				BCCMP water running in well, pipe has large rocks	large loose rocks as HW fairly New	QC3
QC94	Lincoln Twp	76	7.07	1		road		x				3.5	3.0				CMP has loose rocks as HW	Pipe is fairly new	QC4
QC97	Lincoln Twp	62	7.07	1		road		x				2	3.0				CPP encased with loose rocks	Water flowing in well	QC7
QC98	Lincoln Twp	71	9.62	1		road		x				1	3.5				RCP rocks both sides		QC8
SC101	Paint Twp	47	3.14	2		road		x				1.5	2.0			20.0	CPP smooth inside		SC01
SC102	State Rt. 160	56	7.07	1		road		x				1.5	3.0				RCP with concrete Hw and WW both WW 5' at 45 degrees		SC02
SC103	State Rt. 160	43	4.91	1		road		x				2.2	2.5			75.0	RCP with concrete HW		SC03
SC11	Walking Road owner	342	28.27	1				x				3.7	6.0			135.0	CMP 50% blockage due to collapsed HW and collapse of top of pipe	North WW 8 ft at 30 degrees South WW 7 ft at 60 degrees	SC1
SC113	Paint Twp	174	15.90	1		road		x				3.3	4.5				W WW 3.5' at 90 degrees		SC13
SC114	Paint Twp	49	6.16	1		road		x				1.5	2.8				CMP		SC14
SC117	Private Paint Twp	54	4.91	1		old road		x				4	2.5				SP 60% blocked by sedimtn	old non-traveled road	SC17
SC119	Windber Water Authority	25	3.80	1		road		x				1	2.2				SP		SC19
SC12	Ogle Twp	60	8.30	1		road		x				1	3.3			60.0	RCP		SC2
SC120	State Game Lands 228	66	7.07	1		road		x				2.5	3.0				RCP 50% backed by large rocks		SC20
SC121	State Game Lands 228	154	9.62	2		road		x				1.4	3.5				RCP		SC21
SC127	Buffalo trail	43	7.07	1		trail		x				0.5	3.0				CMP bottom of pipe is rusted out		SC27
SC13	Ogle Twp	57	7.07	1		road		x				1.5	3.0			40.0	CMP 15% blocked by large rock		SC3
SC130	Private (Rummel)	116	12.57	1		old road		x				2	4.0				CMP		SC30
SC134	State Game Lands	64	2.01	4		row		x				2	1.6				CMP 50% blocked in north and 30% from north pipe		SC34
SC137	Ogle Twp	21	3.14	1		road		x				1	2.0				CMP		SC37
SC15	State Rt. 56 (paint twp)	67	6.61	1		road		x				3	2.9				CPP smooth inside west WW 2' at 90 degrees concrete HW 1' high		SC5
SC16	Ogle Twp	66	7.07	1		road		x				2.5	3.0				RCP 5% blocked by small wooden fence		SC6
SC19	Ogle Twp	49	4.91	1		road		x				3	2.5			100.0	CPP smooth inside		SC9
SC21	Ogle Twp	38	4.91	1		road		x				1.5	2.5				CMP 5% blocked by rocks		SC1
SC27	Ogle Twp	107	11.04	1		road		x				2.5	3.8			70	RCP 50% blocked by rocks at 90 degrees south WW 11' at 60 degrees Huge WW and msry		SC7
SC29	Ogle Twp	157	15.90	1				x				2.3	4.5			88.0	CPP smooth inside HW 3.5' high both WW 3.5' at 60 degrees	pipe sits at bottom of HW in middle	SC9
SC3	Privately owned Mr. Rummel	67	7.07	1		road		x				2.5	3.0				CMP		SC
SC4	Private	238	19.63	1		road		x				4	5.0				CMP		SC
SC41	State Rt. 160 Paint Twp	48	4.91	1		road		x				3	2.5				RCP both WW 10' at 60 degrees		SC1

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					Part of Bridge?	Culvert Purpose	Culvert			Bridge	T (ft)	D (ft)	HT (ft)	W (ft)				PW (ft)	skew angle	
							□	O	○											
SC43	Ogle Twp	72	7.07	1		road		x				3	3.0					CPP smooth inside	Water skews in from right side of 45 degrees	SC3
SC44	Berward Co.	36	4.91	1		road		x				1.3	2.5					BCCMP		SC4
SC45	Berward Co.	38	4.91	1		road		x				1.5	2.5					RCP pipe not large enough to provide enough flow, causing water to dam up and flow over the road	water flowing over road is three inches deep and 6 feet wide	SC5
SC46	Shade Twp	119	12.57	1		road		x				2.25	4.0					RCP stream skews in front left at 10 degrees	3/4 through pipe 20ft pipe changes to CMP some D	SC6
SC47	Shade Twp	151	11.34	2		road		x				0.5	3.8					RCP both 10% blocked by rocks and sticks		SC7
SC48	Shade Twp	28	4.91	1		road		x				0.5	2.5					CPP Smooth inside		SC8
SC52	Shade Twp	382	44.18	1		road		x				0.5	7.5					SP		SC2
SC54	Shade Twp	117	7.07	1		road		x				10	3.0					RCP 60% blocked by debris, log jam		SC4
SC56	Shade Twp	149	12.57	1		road		x				4.25	4.0					RCP 20% blocked by logs		SC6
SC57	Private	48	2.01	2		road		x				5	1.6					CPP		SC7
SC58	Private	117	3.14	5		road		x				1.5	2.0					4 small ones are CPP 1 large pipe is steel	3 middle small pipes are all 70% blocked large pipe 15% blocked	SC8
SC59	Shade Twp	95	9.62	1		road		x				2.7	3.5					RCP		SC9
SC60	Shade Twp	298	15.90	2		road		x				2	4.5					RCP		SC0
SC64	Shade Twp	47	3.14	2		road		x				1.5	2.0					CPP smooth inside		SC4
SC65	Shade Twp	57	7.07	1		road		x				1.5	3.0					CMP		SC5
SC69	Shade Twp	115	12.57	1		road		x				2	4.0					RCP		SC9
SC70	Private	34	4.91	1		road		x				1	2.5					CMP		SC0
SC71	Shade Twp	64	7.07	1		road		x				2.25	3.0					RCP-stoneblock headwall uppers 6x9' high		SC1
SC72	Shade Twp	50	7.07	1		road		x				1	3.0					RCP same HW as above		SC2
SC73	Shade Twp	38	4.91	1		road		x				1.5	2.5					RCP		SC3
SC77	State Rt. 160	64	7.07	1		road		x				2.3	3.0					RCP		SC7
SC78	Shade Twp	265	23.76	1		road		x				3	5.5					CMP		SC8
SC8	State	272	28.27	1		road		x				1.7	6.0					RCP		SC
SC80	Shade Twp	104	10.75	1		road		x				2.5	3.7					RCP		SC0
SC82	Shade Twp	116	12.57	1		road		x				2	4.0					CMP		SC2
SC84	Private	165	4.91	4		road		x				2	2.5					SP all even flow	3 eastren pipes 50% blocked by sediment and debris	SC4
SC85	Private	83	7.07	1		road		x				4.5	3.0					RCP		SC5
SC86	Shade Twp	96	12.57	1		road		x				1	4.0					RCP	pipes not fitted together properly, drop in level from pipe section to section, about 4" drop	SC6
SC87	Railroad	115	12.57	1		RR		x				2	4.0					RCP		SC7
SC89	Coal company	46	4.91	1		road		x				2.5	2.5					CMP		SC9
SC90	Shade Twp	45	4.91	1		road		x				2.5	2.5					RCP		SC0
SC91	railroad	133	12.57	1		RR		x				3	4.0					CPP smooth inside		SC1
SC97	Coal Company	218	15.90	1		road		x				6	4.5					RCP 10% blocked by debris (sticks and rocks)		SC7
SCR23	Richland Twp	244	19.63	1		road		x				4.5	5.0					solid concrete HW 6.5' 2 WW 7.5' each	looks okay	SCR23
SCR30	56 Penn Dot	97	7.07	1		56		x				6.5	3.0					solid concrete HW 4' 2 WW 4' each	no water running through, dry	SCR30
SCR31	Richland Twp	23	3.14	1		road		x				1.5	2.0					RCP No HW, No WW, No SW	metal slab laying sideways on top of pipe?? No purpose	SCR31
SCR32	Penn Dot 56	462	12.57	1		road		x				50	4.0					CMP HW 5' 2 WW 5'each	pipe blocked 20% with wood debris	SCR32
SCR104	Conemaugh Twp	57	7.07	1		road		x				1.5	3.0					CMP	Rocks laid all around pipe	SCR104
SCR105	Conemaugh Twp	79	9.62	1		road		x				1.5	3.5					CMP		SCR105
SCR114	Twp (Holsapple)	144	19.63	1		road		x				0.5	5.0					CMP -left 20% blocked by big rock		SCR114

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 BCCMP = Bituminous Coated Corrugated Metal Pipe

Map ID #	Owner or Address of Obstruction	Capacity (CFS)	Area (SQ. FT)	Nos. of?	Opening					Measurements					material	NOTES	ID No Space			
					Part of Bridge?	Culvert Purpose	Culvert			Bridge		T	D	HT				W	PW	skew angle
							□	O	○	⌒	□									
SCR118	601 Penn Dot	86	9.62	1		road		x				2	3.5				RCP loose rocks lay around it	pipe is blocked ~20% with vegetation	SCR118	
SCR119	601 Penn Dot	97	12.57	1		road		x				1	4.0				CMP loose rocks lay around it	barely any water	SCR119	
SCR120	Conemaugh Twp	175	19.63	1		road		x				1.5	5.0			45.0	CMP	Okay	SCR120	
SCR132	Shade Twp	66	7.07	1		road		x				2.5	3.0				RCP bottom 1/5 blocked by wood debris	Patchy stone HW 16' wide 4.5' high	SCR132	
SCR144	Shade Twp	239	9.62	2		road		x				5	3.5				RCP- 2 pipes both same side	One pipe does not have any water running through it	SCR144	
SCR150	Quemahoning Twp	50	7.07	1		road		x				1	3.0				RCP HW-11' wide 3.5' high		SCR150	
SCR152	PennDot 403	112	7.07	1		road		x				9	3.0				Concrete HW 4.5' 2 WWs 9' each		SCR152	
SCR176	Quemahoning Twp	285	28.27	1		road		x				2	6.0				SP loose rocks around it	okay	SCR176	
SCR178	Quemahoning Twp	308	38.48	1		road		x				0.25	7.0				SP no WW, SW, HW	water is high fills ~1/2 pipe	SCR178	
SCR179	Quemahoning Twp	126	19.63	1		road		x				0	5.0				solid cement HW 6' 2 WW 7' each	creek is high, ~1/2 pipe filled - Location Unknown	SCR179	
SCR186	Shade Twp	50	7.07	1		road		x				1	3.0			15.0	CPP	Flowing well	SCR186	
SCR187	Shade Twp	71	9.62	1		road		x				1	3.5				RCP		SCR187	
SCR192	Shade Twp	321	23.76	2		road		x				0	5.5			1.5	Concrete 2 WWs 7' each HW-7' high/12.5' wide	All water currently running in east opening AMD	SCR192	
SCR196	Stonycreek Twp	50	7.07	1		road		x				1	3.0				CMP water moving slow	slight damage to top (no big deal)	SCR196	
SCR197	Shade Twp	50	7.07	1		road		x				1	3.0			45.0	RCP	edges of pipe starting to break up (~6" worth)	SCR197	
SCR198	Stonycreek Twp	144	19.63	1		road		x				0.5	5.0				SP loose rocks around act like a HW ~5' high ~20' wide	okay	SCR198	
SCR209	Comemaugh Twp	20	3.14	1		road		x				1	2.0				RCP		SCR209	
SCR210	Comemaugh Twp	33	4.91	1		road		x				1	2.5				RCP flowing well	surrounded by rocks	SCR210	
SCR217	Shade Twp	38	4.91	1		road		x				1.5	2.5				RCP loose stone rocks act as HW	No water in Creek	SCR217	
SCR218	Shade Twp	21	3.14	1		road		x				1	2.0				CMP	Pipe surrounded by rocks	SCR218	
SCR219	Shade Twp	20	3.14	1		road		x				1	2.0						SCR219	
SCR220	Shade Twp	23	3.14	1		road		x				1.5	2.0				SP loose rocks over pipe acts as HW	no water flowing in creek	SCR220	
SCR221	Shade Twp	106	12.57	1		road		x				1.5	4.0				RCP	Pipe in swampy area	SCR221	
SCR222	Shade Twp	38	4.91	1		road		x				1.5	2.5				CPP	Hardly any water flowing	SCR222	
SCR223	Shade Twp	51	3.14	1		road		x				10	2.0				RCP		SCR223	
SCR50	Private	515	50.27	1		Drive Way		x				1.5	8.0				CMP-Stones Filled in all around		SCR50	
SCR51	Private	2134	132.73	1	x			x				6	13.0				Concrete W Stone SW Extends through length of road 100ft		SCR51	
SCR54	Private	200	23.76	1		road		x				1	5.5			30.0	Sp-no WWs HWs SWs		SCR54	
SCR59	Comemaugh Twp	43	7.07	1		road		x				0.5	3.0				CPP Rocks around sides		SCR59	
SCR60	Private	72	12.57	1		road		x				0	4.0				CMP-2 wood WWs-10' each		SCR60	
SCR61	Private	85	12.57	1		road		x				0.5	4.0				SP-no WWs		SCR61	
SCR64	Private	161	19.63	1		road		x				1	5.0				CMP-Patch Stone SWs		SCR64	
SCR67	Conemaugh Twp	79	9.62	1		road		x				1.5	3.5				RCP		SCR67	
SCR71	Conemaugh Twp	212	19.63	1		road		x				3	5.0				SP-Big Rocks Around Pipe		SCR71	
SCR84	Conemaugh Twp	133	12.57	1		road		x				3	4.0				CMP-encased in loose stone rocks		SCR84	
SCR95	303p near PennDot (Penn Dot) near page bedding	133	9.62	1		road		x				6.5	3.5				solid concrete HW 5' 2 WW 6' each	W WW has hole in it with water coming out (pipe?)	SCR95	
SR10	Brothersvalley Twp	156	13.85	1		road		x				3.5	4.2				not blocked by debris (rocks, HW and WW concrete both WW 8' at 30 degrees		SR0	
SR100	Somerset Twp	722	70.88	1		road		x				1	9.5			135.0	SP		SR00	
SR101	Somerset Twp	67	7.07	1		road		x				2.5	3.0			80.0	CMP		SR01	
SR103	Somerset Twp	96	12.57	1		road		x				1	4.0			80.0	RCP		SR03	

**Box Culvert / Box Bridge Capacity Calculation Sheet**

**Watershed: Stonycreek**

Circular Culverts Calculation Sheet

Completed by:  
Checked by:  
Date(s):

**NOTE: Different parameters assigned to CMP and RCP culverts in capacity column**

T = Amount of fill  
D = Diameter  
HT = Height  
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PW = Pier Width (if applicable)  
msry = Stone Masonry Structure  
CMP = Corrugated Metal Pipe  
CPP = Corrugated Polyethylene Pipe  
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Map ID #	Owner or Address of Obstruction	Capacity (CFS)	Area (SQ. FT)	Nos. of?	Opening					Measurements					material	NOTES	ID No Space		
					Part of Bridge?	Culvert Purpose	Culvert			Bridge	T (ft)	D (ft)	HT (ft)	W (ft)				PW (ft)	skew angle
							□	O	⊙										
SR105	Somerset Twp	40	7.07	1		road		x				0.3	3.0				RCP		SR05
SR109	Quemahoning Twp	66	7.07	1		road		x				2.5	3.0			75.0	SP		SR09
SR11	Brothersvalley Twp	62	7.07	1		road		x				2	3.0			115.0	RCP 10% blocked by debris		SR1
SR110	Quemahoning Twp	85	12.57	1		Road		x				0.5	4.0			75.0	SP		SR10
SR112	Somerset Twp	39	7.07	1		road		x				0.25	3.0				CMP top of pipe dented down blocking 10 % of opening.		SR12
SR115	Private	57	1.77	4		road		x				2	1.5				all CMP		SR15
SR116	Private Beal Auto Repairs	96	12.57	1		road		x				1	4.0				RCP		SR16
SR120	Somerset Twp	50	7.07	1		road		x				1	3.0			135.0	RCP		SR20
SR121	Private	62	9.62	1		road		x				0.5	3.5			70.0	Metal pipe smooth inside 5% blocked by debris (logs)		SR21
SR123	Somerset Twp	106	12.57	1		road		x				1.5	4.0			120.0	RCP 5% blocked by large rocks in bottom of pipe		SR23
SR124	Somerset Twp	54	7.07	1		road		x				1.3	3.0			45.0	CMP		SR24
SR126	Lincoln Twp	115	12.57	1		road		x				2	4.0				RCP 10% blocked by debris (sticks)		SR26
SR127	Private	50	7.07	1		road		x				1	3.0				CMP		SR27
SR130	Quemahoning Twp	43	7.07	1		road		x				0.5	3.0			110.0	CPP smooth inside		SR30
SR135	Quemahoning Twp	57	7.07	1		road		x				1.5	3.0				CMP		SR35
SR136	Quemahoning Twp	81	7.07	1		road		x				4	3.0				CMP 10% blocked by large rocks		SR36
SR138	Lincoln Somerset Twp	214	12.57	2		road		x				1.5	4.0				CMP both pipes 5% blocked by debris		SR38
SR140	Somerset Twp	14	1.77	1		road		x				1.75	1.5	6.0	8.0		CMP/CMP smooth inside		SR40
SR141	Somerset Twp	76	7.07	1		road		x				3.5	3.0				CMP inside stone HW 11.5' wide and 1.75' above pipe		SR41
SR142	Private	43	7.07	1		road		x				0.5	3.0			135.0	CPP smooth inside		SR42
SR143	Private	64	4.91	1		road		x				6	2.5			105.0	RCP		SR43
SR144	Somerset Twp	83	7.07	1		road		x				4.5	3.0				RCP stone HW 4' tall x 12' wide		SR44
SR146	State Rt 219	493	15.90	1		road		x				35	4.5			10.0	CMP 60% blocked by debris at 30 degrees degrees		SR46
SR147	Somerset Twp	232	12.57	2		road		x				2	4.0				CMP		SR47
SR149	Quemahoning Twp	200	19.63	1		road		x				2.5	5.0				SP		SR49
SR15	Brothersvalley Twp	37	5.31	1		road		x				1	2.6			110.0	CPP smoth inside		SR5
SR150	Quemahoning Twp	340	41.28	1		road		x				0.3	7.3				SP		SR50
SR151	Quemahoning Twp	15	1.77	2		road		x				0.2	1.5				Both SP		SR51
SR152	Quemahoning Twp	43	7.07	1		road		x				0.5	3.0			80.0	RCP		SR52
SR153	Quemahoning Twp	217	23.76	1		road		x				1.5	5.5				both WW 7' at 60 degrees RCP all concrete HW as wide as pipe and 1.5' higher		SR53
SR16	Brothersvalley Twp	50	7.07	1		road		x				1	3.0				CMP		SR6
SR162	Quemahoning Twp	101	12.57	1		road		x				1.2	4.0			80.0	CMP 20% blocked by plastic feed tube both WW 7' at 60 degrees CMP all concrete HW is 1' higher than pipe		SR62
SR164	Stonycreek Twp	216	12.57	1		road		x				10	4.0						SR64
SR17	Brothersvalley Twp	72	7.07	1		road		x				3	3.0				CMP		SR7
SR173	Stonycreek Twp	212	9.62	2		road		x				3.5	3.5				CMP only 8" of clearance in pipe due to water	HW 21.5' wide and 3.5' high than pipe, water level	SR73
SR174	State Rt. 160	123	12.57	1		road		x				2.5	4.0			70.0	RCP has 7'-4" channel to channel water		SR74
SR175	State RT. 160	129	9.62	1		x		x				6	3.5				RCP WW 5' each 45 degrees		SR75
SR18	State Rt 160	64	7.07	1		road		x				2.2	3.0			70.0	RCP		SR8
SR181	Private (Farmer)	71	9.62	1		road		x				1	3.5			70.0	SP		SR81
SR182	Coal Company (PBS)	276	15.90	1		road		x				10	4.5			100.0	CMP		SR82



**Box Culvert / Box Bridge Capacity Calculation Sheet**  
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Circular Culverts Calculation Sheet

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Map ID.#	Owner or Address of Obstruction	Capacity (CFS)	Area (SQ. FT)	Nos. of?	Opening					Measurements					material	NOTES	ID No Space	
					Part of Bridge?	Culvert Purpose	Culvert Shape (✓)			T (ft)	D (ft)	HT (ft)	W (ft)	PW (ft)				skew angle
							□	O	⊖									
SR183	Coal Company (PBS)	831	19.63	3		road		x				6	5.0			100.0	CMP 2 South pipes 5% blocked by debris	SR83
SR184	Coal Company (PBS)	500	28.27	1		road		x				10	6.0			100.0	CMP	SR84
SR186	Stonycreek Twp Indian Lake Bo	300	28.27	1		road		x				2.5	6.0				SP Both WW 5.5' at 60 degrees msry	SR86
SR187	Stonycreek Twp Indian Lake Bo	61	7.07	1		road		x				2	3.0		115.0		RCP	SR87
SR188	Stonycreek Twp Indian Lake Bo	191	11.04	2		road		x				1.75	3.8				RCP	SR88
SR189	Stonycreek Twp Indian Lake Bo	1141	28.27	4		road		x				2	6.0				BCCMP both WW 7' at 90 degrees WW and HW riprmp	SR89
SR19	State Rt. 160	72	7.07	1		road		x				3	3.0		105.0		CMP	SR9
SR191	State Rt. 30	175	19.63	1		road		x				1.5	5.0		135.0		RCP	SR91
SR194	PA Turnpike 70/76	161	9.62	1		road		x				10	3.5		60.0		Both WW 7.5' at 60 degrees 5% blocked by cement RCP	SR94
SR198	Private	96	12.57	1		road		x				1	4.0				RCP	SR98
SR199	Indian Lake Boro	28	3.14	1		road		x				2.5	2.0		115.0		RCP 10% blocked by wood	SR99
SR2	Brothersvalley Twp	76	7.07	1		road		x				3.5	3.0				RCP	SR
SR20	State Rt. 160	50	7.07	1		road		x				1	3.0				CMP south side of pipe bent in blocking 5% of opening	SR0
SR200	Indian Lake Boro	26	3.14	1		road		x				2	2.0				CMP	SR00
SR201	Shade Twp	30	3.14	1		road		x				2.8	2.0				CPP	SR01
SR202	Quemahoning Twp	26	3.14	1		road		x				2	2.0		65.0		SP	SR02
SR204	Stonycreek Twp	28	3.14	1		road		x				2.5	2.0		45.0		RCP	SR04
SR205	Stonycreek	28	3.14	1		road		x				2.5	2.0				RCP 70% blocked by large rocks and sticks	SR05
SR206	Stonycreek Twp	23	3.14	1		road		x				1.5	2.0		70.0		RCP	SR06
SR207	Stonycreek Twp	29	3.14	1		road		x				2.5	2.0		80.0		CMP	SR07
SR209	Stonycreek Twp	29	3.14	1		road		x				2.5	2.0				CMP	SR09
SR21	Brothersvalley Twp	57	7.07	1		road		x				1.5	3.0				CPP smooth inside	SR1
SR210	Stonycreek Twp	28	3.14	1		road		x				2.5	2.0		110.0		RCP	SR10
SR211	Somerset Twp	87	9.62	1		road		x				2	3.5				CMP	SR11
SR212	Somerset Twp	54	7.07	1		road		x				1.3	3.0				CMP	SR12
SR213	Somerset Twp	34	3.14	1		road		x				4	2.0				RCP	SR13
SR214	Somerset Twp	27	3.14	1		road		x				2.2	2.0				CPP-smooth inside	SR14
SR215	State Rt. 281	86	9.62	1		road		x				2	3.5		60.0		RCP	SR15
SR216	Somerset Twp	20	3.14	1		road		x				1	2.0		120.0		RCP	SR16
SR217	Somerset Twp	25	3.80	1		road		x				1	2.2		110.0		RCP	SR17
SR218	Private	66	4.91	1		road		x				6	2.5				CMP 70% blocked by rocks and sediment	SR18
SR219	Somerset Twp	11	0.79	2		road		x				1.5	1.0		70.0		1-CPP 1-CMP	SR19
SR22	Brothersvalley Twp	33	4.91	1		road		x				1	2.5		80.0		SP	SR2
SR220	Somerset Twp	29	3.98	1		road		x				1.25	2.3				BCCMP	SR20
SR221	Somerset Twp	56	7.07	1		road		x				1.5	3.0		50.0		South WW 4' at 90 degrees RCP	SR21
SR222	Somerset Twp	26	3.14	1		road		x				2	2.0		110.0		CMP	SR22
SR223	Somerset Twp	17	3.14	1		road		x				0.5	2.0		75.0		SP	SR23
SR224	Somerset Twp	21	3.14	1		road		x				1	2.0		135.0		CPP	SR24
SR225	Somerset Twp	20	3.14	1		road		x				1	2.0		105.0		RCP	SR25
SR226	Private	17	3.14	1		road		x				0.5	2.0				RCP 30% blocked by sticks and rocks	SR26

**Box Culvert / Box Bridge Capacity Calculation Sheet**

**Watershed: Stonycreek**

Circular Culverts Calculation Sheet

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					Part of Bridge?	Culvert Purpose	Culvert			Bridge	T (ft)	D (ft)	HT (ft)	W (ft)				PW (ft)	skew angle
							□	O	⊖										
SR227	Somerset Twp	27	3.14	1		road		x				2.1	2.0			70.0	CPP		SR27
SR228	Somerset Twp	25	1.77	2		road		x				1.5	1.5				BCCMP		SR28
SR229	Quemahoning Twp	23	3.14	1		road		x				1.5	2.0				SP		SR29
SR230	Somerset Twp	20	3.14	1		road		x				1	2.0				RCP		SR30
SR231	Somerset Twp	61	7.07	1		road		x				2	3.0				RCP		SR31
SR232	Somerset Twp	26	3.14	1		road		x				2	2.0				RCP		SR32
SR233	Stonycreek Twp	132	9.62	1		road		x				6	3.5				CMP		SR33
SR234	Brothersvalley Twp	26	3.14	1		road		x				2	2.0				CMP		SR34
SR236	Turnpike 70/76	223	19.63	1		road		x				3.5	5.0				RCP both WW 9' at 45 degrees	WW Concrete	SR36
SR237	PA Turnpike 70/76	100	7.07	1		road		x				7	3.0				RCP with channels		SR37
SR24	State Rt. 31	81	7.07	1		road		x				4	3.0			100.0	CMP		SR4
SR26	State Rt. 31	234	19.63	1		road		x				4	5.0			110.0	Both RCP concrete HW is 1' above top of pipe		SR6
SR27	Brothersvalley Twp	96	12.57	1		road		x				1	4.0				RCP		SR7
SR28	Brothersvalley Twp	150	9.62	2		road		x				1.25	3.5			70.0	Both RCP		SR8
SR3	Brothersvalley Twp	237	15.90	1		road		x				7	4.5			110.0	Both RCP with concrete HW is 1' above top of pipe both WW 7.5 at 60 degrees	10% blocked by sediment and sticks	SR
SR30	Private	160	19.63	1		road		x				1	5.0			80.0	SP		SR0
SR32	Private	120	3.46	4		road		x				2.2	2.1				CMP CPP CMP	Large CMP 10% blocked by debris	SR2
SR33	Private	18	1.77	2		road		x				0.5	1.5				CMP		SR3
SR34	Stonycreek Twp	62	7.07	1		road		x				2	3.0			70.0	CMP		SR4
SR36	Stonycreek Twp	38	4.91	1		road		x				1.5	2.5				RCP		SR6
SR38	Brothersvalley Twp	242	18.10	2		road		x				0.2	4.8			70.0	Both SP		SR8
SR39	Brothersvalley Twp	56	7.07	1		road		x				1.5	3.0			110.0	RCP		SR9
SR40	Brothersvalley Twp	64	7.07	1		road		x				2.3	3.0			60.0	RCP		SR0
SR41	Brothersvalley Twp	66	7.07	1		road		x				2.5	3.0			75.0	RCP		SR1
SR44	Private	164	9.62	2		road		x				1.75	3.5			100.0	Loose pipe-SP small pipe-plastic		SR4
SR45	State Rt 160	79	7.07	1		road		x				4	3.0			75.0	RCP has channel pipe to pour water in		SR5
SR46	State Rt 160	64	7.07	1		road		x				2.25	3.0				RCP same channel type as above		SR6
SR47	Stonycreek Twp	112	15.90	1		road		x				0.5	4.5				SP		SR7
SR49	Stonycreek Twp	223	28.27	1		road		x				0.5	6.0				SP		SR9
SR5	Brothersvalley Twp	446	50.27	1		road		x				0.5	8.0				SP		SR
SR50	Stonycreek Twp	71	7.07	1		road		x				3	3.0				RCP		SR0
SR51	Stonycreek Twp	335	38.48	1		road		x				0.7	7.0				SP		SR1
SR53	Stonycreek	76	9.62	1		road		x				1.3	3.5			100.0	CMP		SR3
SR56	Stonycreek Twp	35	3.14	2		road		x				0.6	2.0				RCP		SR6
SR57	Stonycreek Twp	30	4.91	1		road		x				0.7	2.5			80.0	RCP		SR7
SR58	Brothersvalley Twp	62	7.07	1		road		x				2	3.0				CMP		SR8
SR59	Stonycreek Twp	1842	63.62	1		road		x				29	9.0			60.0	CMP concrete bottom blocks 3-5% of pipe		SR9
SR63	Stonycreek Twp	106	12.57	1		road		x				1.5	4.0			80.0	SP		SR3
SR65	Stonycreek Twp	25	4.91	1		road		x				0.2	2.5			70.0	SP		SR5
SR7	Brothersvalley Twp	241	12.57	2		road		x				2.25	4.0			115.0	Both pipes RCP		SR

**Box Culvert / Box Bridge Capacity Calculation Sheet**

**Watershed: Stonycreek**

Circular Culverts Calculation Sheet

Completed by:

Checked by:

Date(s):

**NOTE: Different parameters assigned to CMP and RCP culverts in capacity column**

T = Amount of fill  
 D = Diameter  
 HT = Height  
 W = Width  
 PW = Pier Width (if applicable)  
 msry = Stone Masonry Structure  
 CMP = Corrugated Metal Pipe  
 CPP = Corrugated Polyethylene Pipe  
 BCCMP = Bituminous Coated Corrugated Metal Pipe

Map ID. #	Owner or Address of Obstruction	Capacity (CFS)	Area (SQ. FT)	Nos. of?	Opening					Measurements					material	NOTES	ID No Space		
					Part of Bridge?	Culvert Purpose	Culvert			Bridge	T (ft)	D (ft)	HT (ft)	W (ft)				PW (ft)	skew angle
							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
SR71	Private	145	12.57	1		road		x				4	4.0				RCP 10% blocked by rocks and sticks	SR1	
SR76	Stonycreek Twp	79	9.62	1		road		x				1.5	3.5				100.0	BCCMP	SR6
SR77	Stonycreek Twp	101	12.57	1		road		x				1.25	4.0					RCP	SR7
SR78	Mine Company	79	7.07	1		road		x				4	3.0					RCP	SR8
SR80	Stonycreek Twp	84	4.91	2		road		x				2	2.5				60.0	CMP	SR0
SR82	Stonycreek Twp	96	12.57	1		road		x				1	4.0				105.0	RCP	SR2
SR83	Stonycreek Twp	50	7.07	1		road		x				1	3.0					CMP	SR3
SR84	Stonycreek Twp	40	7.07	1		road		x				0.3	3.0				70.0	RCP	SR4
SR85	Somerset Twp	175	19.63	1		road		x				1.5	5.0					RCP both r/w and w/w concrete both w/w 5:3 at 60 degrees	SR5
SR87	Somerset Twp	46	7.07	1		road		x				0.7	3.0				105.0	RCP	SR7
SR89	Somerset Twp	54	7.07	1		road		x				1.3	3.0				110.0	RCP	SR9
SR9	Brothersvalley Twp	57	7.07	1		road		x				1.5	3.0					RCP	SR
SR91	Somerset Twp	85	12.57	1		road		x				0.5	4.0				100.0	RCP	SR1
SR92	Somerset Twp	50	7.07	1		road		x				1	3.0				115.0	SP	SR2
SR98	Somerset Twp	34	4.91	1		road		x				1	2.5					CPP smooth inside	SR8

**Box Culvert / Box Bridge Capacity Calculation Sheet**

**Watershed:**

**Stonycreek**

Elliptical Culverts Calculation Sheet

Completed by:

Checked by:

Date(s):

**NOTE: Different parameters assigned to CMP and RCP culverts in capacity column**

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Map ID #	Owner or Address of Obstruction	Capacity (CFS)	Area (SQ. FT)	Nos. of?	Opening				Measurements					material	NOTES	ID No Space	
					Type	Shape (✓)			T (ft)	D (ft)	HT (ft)	W (ft)	PW (ft)				skew angle
						Part of Bridge?	Culvert Purpose	Culvert									
BC100	NF CC	1853	25.13	5	x	road					7.00	4.0	8.0		5 CMP wood HW 6' above pipes culvert/bridge combo	total width 48' see other side	BC00
BC105	Upper Yoder Twp	91	11.00	1		road					1.5	3.5	4.0	30.0	CMP loose block/rock layed around it	the 4x3 pipe is inside a 5x4.5' pipe?	BC05
BC107	Private	51	3.93	1		drive way					6	2.0	2.5		RCP good condition	runs ~80' under yard and road	BC07
BC108	Private	94	8.25	1		drive way					4	3.0	3.5		CMP solid	blocked 15% by wood debris	BC08
BC109	Upper Yoder Twp	51	3.14	3		road					0.5	2.0	2.0		SP no water runs though, RCP RCP water runs through	West/East	BC09
BC110	Conemaugh Twp	64	12.96	1		road						3.0	5.5		CMP encased in msry msry HW 6' high 8' wide		BC10
BC113	Conemaugh Twp	34	3.93	1		road					2	2.5	2.0		CMP		BC13
BC114	Conemaugh Twp	66	8.25	1		road					1.5	3.0	3.5		CMP	large rock blocks bottom third of pipe	BC14
BC120	Private	223	21.60	1		drive way					2.5	5.0	5.5		CMP	Bottom 1/10 of pipe rusted out	BC20
BC125	Conemaugh Twp	87	3.93	1		road					18	2.0	2.5		CMP encased in loose stone Poor drainage	wood and stone	BC25
BC126	Private	244	23.56	1		road					2.5	5.0	6.0		CMP encased in loose stone	flowing well	BC26
BC130	Private	91	12.37	1		road					1	3.5	4.5		SP No HW, SW pipe is rusted		BC30
BC140	Penn dot Somerset East Pike	71	8.25	1		road					2	3.0	3.5		RCP	opening pipe is cut at 15 degree angle	BC40
BC142	Private	134	11.78	1		drive way					4	3.0	5.0	75.0	CMP wood HW 4'	pipe is oblonged shape	BC42
BC143	Private	202	17.67	1		drive way					4	3.0	7.5	75.0	CMP wood HW 4'	pipe is oblonged shape	BC43
BC144	271 Penn Dot Cambria County	60	3.93	1		road					8.5	2.0	2.5		solid concrete HW 6'	above	BC44
BC17	Conemaugh Twp Back Shaffer Bridge Rd	93	10.60	1		road					2	3.0	4.5	0.0	CMP	does not look like stream runs all year	BC7
BC2	Private Owner Mill on Drive	261	18.85	1		private drive					6	4.0	6.0		CMP/nothing	high water	BC
BC24	Conemaugh Twp just near NF res	147	11.00	1		road					6	3.5	4.0	45.0	RCP cement HW 8' long, 8' high	base is cracked/eroded opposite side face fell in	BC4
BC28	Conemaugh Twp	156	15.71	1		road					2.5	4.0	5.0		CMP with msry support/fill	fell in	BC8
BC29	Conemaugh Twp	59	8.25	1		road					1	3.0	3.5		CPP	new pipe very little fill, stream is small	BC9
BC30	Penn Dot	51	4.71	1		road					4	2.0	3.0		solid cement	has a hold area area before going in to pipe	BC0
BC33	Private	160	18.85	1		drive way					1.5	4.0	6.0		CMP ~10% filled with sediment and gravel	patchy rock headwall ~10x6'	BC3
BC40	Private	109	18.85	1		drive way						4.0	6.0		MSRY wooded bridge 2 WW Both 5.5'	rocks on edges	BC0
BC49	Conemaugh Twp	311	32.99	1		road					1.5	6.0	7.0	45.0	CMP fairly new, enclosed with rocks	water going in well	BC9
BC51	Penn Dot	347	23.56	1		road					7	5.0	6.0		RCP HW 12' high loose stone HW	Headwall surrounded by stone	BC1
BC54	Conemaugh Twp	301	31.81	1		road					2	4.5	9.0		CMP pipe would be 9' high cut in half, encased in stone	both sides have stone walls	BC4
BC56	Private	169	17.67	1		road					2	5.0	4.5		Steel pipe encased with rocks 1 HW	Patchy Stone HW 20'	BC6
BC57	Penn Dot	67	9.42	1		road					1	3.0	4.0		BCCMP 30% filled with gravel	Aluminum wings ~6' long used to channelize water	BC7
BC62	Jenner Twp	312	15.71	2		road					2.5	4.0	5.0	1.0	2 CMP east pipe has 95% of water through it	buried pipe to road skew ~45 degrees	BC2
BC63	Jenner Twp	325	17.67	1		driveway					12	4.5	5.0		SP crushed in ~2 on top, all rusty	stone/tire HW ~ 20' high 25' wide	BC3
BC65	Conemaugh Twp	89	8.25	1		road					3.5	3.0	3.5		CPP some small stone encases pipe ~4' each side	water runs though smoothly	BC5
BC66	Conemaugh Twp	211	23.56	1		road					1.5	5.0	6.0		CMP W SW 7' long made of stone	log retaining wall ~ 25' long on past SW	BC6
BC67	Jenner Twp	1474	75.40	1		road					12	8.0	12.0		CMP 2 WW 9' long HW cased around pipe	cement	BC7
BC71	Private	228	17.67	1		drive way					5	5.0	4.5		RCP	clear	BC1
BC72	Jenner Twp	81	14.14	1		road						4.0	4.5		RCP West WW 4' East HW 2' into bank	Stone SW along road 20' long 3.5' high	BC2
BC73	Jenner Twp	595	23.56	2		road					4.5	5.0	6.0	1.0	2 CMP-same size HW stone 13' long 7' high	filled 10% with concrete	BC3
BC79	Jenner Twp boot wash	350	32.99	1		road					2.5	6.0	7.0		RCP stone HW 22' long surrounds pipe 9' high	Channel hits west side of headwall, then goes in to pipe	BC9
BC80	Jenner Twp	425	30.63	1		road					5.5	6.5	6.0	60.0	SP W SW 10' long 7' high East Wall is natural break	made of tires and rocks	BC0
BC86	Jenner Twp	118	8.25	2		road					1	3.0	3.5		2 CMP 10% filled with concrete block headwall 17' wide 4' high	water moves only through front pipe the other pipe rocks like an overflow pipe	BC6
BC90	Penn Dot	85	8.25	1		road					3.25	3.0	3.5		RCP cut back 8' from bottom to top	rocks fill this area ~ 20%	BC0
BC91	Private	399	42.41	1		drive to club					1.5	6.0	9.0		CMP bottom submerged in 2' of water, looks flattened	two streams meet at the pipe in bottom 1/5 of pipe	BC1
BC93	Private	136	12.37	1		private road					3.5	3.5	4.5		CMP stone loosely around it	just downstream from a small, unidentified dam	BC3
PC23	Richland Twp	102	11.78	1		road					2	3.0	5.0		RCP South WW 7.7' at 60 degrees, North WW 7.7' at 60 degrees	Slight skew from right side (water)	PC3
PC24	Richland Twp	132	11.78	1		road					4	3.0	5.0		RCP South WW 7.7' at 60 degrees, North WW 7.7' at 60 degrees note: not on topo map	water flows from small pipe by a separate pipe origin unknown	PC4

**Box Culvert / Box Bridge Capacity Calculation Sheet**

Watershed:

Stonycreek

Elliptical Culverts Calculation Sheet

Completed by:

Checked by:

Date(s):

**NOTE: Different parameters assigned to CMP and RCP culverts in capacity column**

T= Amount of fill  
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Map ID #	Owner or Address of Obstruction	Capacity (CFS)	Area (SQ. FT)	Nos. of?	Opening				Measurements					material	NOTES	ID No Space	
					Type	Shape (✓)			T (ft)	D (ft)	HT (ft)	W (ft)	PW (ft)				skew angle
						Part of Bridge?	Culvert Purpose	Culvert									
PC55	Paint Twp	616	60.48	1	road					0.5	11.0	7.0			flatten on bottom made that way	PC5	
PC69	Private	794	66.37	1	road					1.4	13.0	6.5			with concrete HW (12" high) SWW (10.5" high) and SWW (10.5" high) at 45 deg	PC9	
PC70	Slate Rt. 601 (Windber Twp)	183	17.67	1	road					2.5	5.0	4.5			CMP Floodwall on Southside of stream 50' long with 6' high	PC0	
QC1	Private	154	17.67	1	drive way					1.5	4.5	5.0			CMP No HW	QC	
QC112	Private Kalina Dr.	120	15.71	1	road					1	4.0	5.0			SP area is very swampy and appears almost flooded	QC12	
QC118	Jenner Twp	67	9.42	1	road					1	3.0	4.0			CMP pipe is 9 inches from over flowing	QC18	
QC123	Jenner Twp	132	15.71	1	road					1.5	4.0	5.0			solid cement HW 5' high 2 WWs 6' each	QC23	
QC124	Jenner Twp	216	14.14	2	road					1	4.0	4.5	3.5	30.0	2 RCP encased in cement HW 5' E WW 7' W WW 8'	QC24	
QC126	Penn Dot 985	277	14.14	1	road					14	4.0	4.5		0.0	solid concrete HWs 5' E SW 5' W WW 6'	QC26	
QC127	Penn Dot 985	177	5.69	1	road					35	2.5	3.0			solid concrete HW 3.5' high 5.5' wide	QC27	
QC131	Jenner Twp	61	7.85	1	road					1.5	2.5	4.0			CMP stone HW 5.5' high 8' wide	QC31	
QC136	Jenner Twp	40	5.69	1	road					1	2.5	3.0		45.0	RCP	QC36	
QC143	Jenner Twp	109	14.14	1	road					1	4.0	4.5			CMP brush all around pipes	QC43	
QC144	Jenner Twp	125	17.67	1	road					0.5	4.5	5.0			RCP water going in well	QC44	
QC152	Lincoln Twp	835	71.47	1	road					3	7.0	13.0			CMP Water flowing well	QC52	
QC155	Twp. Old Railroad	181	15.71	2	rail road					x	4.0	5.0			MSRY SP encased in stone HW 24 feet Wide, 7' high	QC55	
QC156	Lincoln Twp	77	4.71	4	road					x	2.0	3.0			MSRY cement has 4 pipes HW 30' wide 4.5' high	QC56	
QC159	Lincoln Twp	60	7.85	1	road					x	1.5	2.5	4.0	15.0	solid concrete HW 4' high 6.5' long	QC59	
QC164	Private Quemahoning Creek Headwater	143	15.71	1	Drive Way					x	2	4.0	5.0		RCP encased in concrete HW 6' high 12' wide 2 low angle WW 7' each	QC64	
QC166	Lincoln Twp	102	9.42	1	road					x	3.5	3.0	4.0	60.0	CPP wood HW 12' Wide 5' high	QC66	
QC168	Penn Dot 985	165	23.56	1	road					x	0	6.0	5.0			CMP encased in cement HW 7' 2 WW 8' each	QC68
QC169	Penn Dot 985 Quecreek	18546	772.83	1	985 road					x	15	24.0	41.0			solid concrete HW 26' high 2 WW 30' each	QC69
QC191	Jenner Twp	30	3.93	1	road					x	1.5	2.5	2.0			RCP	QC91
QC192	Penn Dot somerset Pike	90	9.82	1	road					x	2.5	2.5	5.0			solid concrete HW 4' high 7' wide 2 WW 5' each	QC92
QC194	Penn Dot Somerset Pike Jennerstown	393	25.92	1	road					x	7	5.5	6.0	30.0		CMP encased in concrete HW 7' 2 WW 8'	QC94
QC202	Lincoln Twp	16	3.93	1	road					x	0	2.0	2.5			CMP-msry HW	QC02
QC209	Jenner Twp	80	8.25	1	road					x	2.5	3.5	3.0			CPP	QC09
QC21	Quemahoning Twp	107	11.00	1	road					x	2.5	3.5	4.0			CPP top crunched into 6"	QC1
QC211	Quemahoning Twp	63	5.89	1	road					x	3.5	2.5	3.0			CMP	QC11
QC216	Jenner Twp	51	3.93	1	road					x	6	2.0	2.5			RCP encased in msry HW 5' wide 3' high	QC16
QC22	Quemahoning Twp	139	21.60	1	road					x		5.0	5.5	60.0		RCP encased in concrete HW 6.5'	QC2
QC225	Jenner Twp	48	3.93	1	road					x	5	2.0	2.5	30.0		CMP HW 8' wide 5' high	QC25
QC233	Abandoned railroad	1520	62.83	1	rail road					x	20	10.0	8.0			concrete msry cement HW 15' high	QC33
QC237	Abandoned railroad	45	4.71	1	RR					x	3	2.0	3.0			RCP patchy stone HW 9' wide 4' high	QC37
QC241	Private	140	14.14	1	Drive Way					x	2.5	4.0	4.5			CMP No HW, No SW, No WW	QC41
QC27	Quemahoning Twp	326	37.70	1	road					x	1	6.0	8.0	45.0		SP no HW or WW	QC7
QC28	Quemahoning Twp	308	32.99	1	road					x	1.5	6.0	7.0			SP no HW or WW	QC8
QC3	Jerome/Conneaugh Twp	109	14.14	1	road					x	1	4.0	4.5			BCCMP West WW 4.5' Pipe encased with stone	QC
QC30	Private Beckner Lane	246	11.68	2	road					x	3.0	4.3	3.5			2 SP North pipe not really used south pipe blocked 25% with debris	QC0
QC4	Penn dot 601	88	16.49	1	road					x		3.5	6.0	60.0		CMP cement HW 4 3/4 2 WW 7.5' each	QC
QC46	Penn Dot Rt. 30	1042	54.98	1	road					x	12	7.0	10.0	0.0		solid concrete HW 10.5' W WW 12' E WW 10'	QC6
QC60	Jenner Twp	196	12.57	1	road					x	8	4.0	4.0	45.0		CMP encased in cement pipe HW -5' 2 WW 6' each	QC0
QC72	Jenner Twp	59	5.89	1	road					x	3	2.5	3.0			CMP a lot of grass and vegetation by pipe	QC2
QC8	Conemaugh Twp	307	35.34	1	road					x	1	6.0	7.5			CMP Has rip rap SWs 9' each	QC
QC82	Penn Dot Rt 30	2410	125.66	1	road					x	12	8.0	20.0			Concrete msry WW 11' 2 WWs 5' Opening is half moon shaped	QC2

**Box Culvert / Box Bridge Capacity Calculation Sheet**

**Watershed:**

**Stonycreek**

Elliptical Culverts Calculation Sheet

Completed by:

Checked by:

Date(s):

**NOTE: Different parameters assigned to CMP and RCP culverts in capacity column**

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Map ID #	Owner or Address of Obstruction	Capacity (CFS)	Area (SQ. FT)	Nos. of?	Opening				Measurements					material	NOTES	ID No Space	
					Type	Shape (✓)			T (ft)	D (ft)	HT (ft)	W (ft)	PW (ft)				skew angle
						Part of Bridge?	Culvert Purpose	Culvert									
QC86	Lincoln Twp	99	11.00	1	road					2	3.5	4.0			CMP has blacktop over it	rocks around sides with vegetation	QC6
QC87	Private Camper's archery	128	18.85	1	road					0.5	4.0	6.0			CMP has loose rocks over site as HW	Rocks around edge, sides	QC7
QC90	Penn Dot 601	88	8.25	1	road					3.5	3.0	3.5			RCP encased in concrete concrete HW 7' Wide	HW 4' High large rocks on both sides of pipe	QC0
QC95	Lincoln Twp	663	63.22	1	road					2	7.0	11.5			CMP rocks both sides	bottom third of pipe is cut off	QC5
SC104	State Rt. 160	200	20.42	1	road					2.5	4.0	6.5			RCP		SC04
SC111	Paint Twp	1834	108.38	1	road					8	9.2	15.0	80.0		CMPboth WW 13' at 45 degrees	Pipe 5% full of concrete in bottom of pipe	SC11
SC124	Lost Turkey Trail	163	14.42	1	trail					4	2.7	6.8			CMP		SC24
SC126	Lost Turkey Trail	140	23.56	1	Trail road					0.1	4.0	7.5			CMP Top is very flat		SC26
SC14	State Rt. 56 (paint twp)	300	28.27	1	road					2.9	4.8	7.5	60.0		HW and WW		SC4
SC22	State Rt 56 (Ogle twp)	930	51.86	1	road					10	7.1	9.3	70.0		BCCMP		SC2
SC23	Gallitzin State Forset Ogle Twp	111	11.49	1	road					2.5	3.3	4.5	80.0		CMP		SC3
SC24	Gallitzin State Forset Ogle Twp	109	9.57	1	road					4	2.9	4.2			CMP front of pipe dented up, does not obstruct flow		SC4
SC25	Gallitzin State Forset Ogle Twp	103	8.66	1	road					4.5	2.9	3.8			CMP		SC5
SC26	Gallitzin State Forset Ogle Twp	44	6.38	1	road					1	2.5	3.3			CMP		SC6
SC36	Gallitzin State Forset Ogle Twp	473	45.95	1	road					2	6.5	9.0			wide pipe in bottom		SC6
SC39	State Rt 160 Paint twp	125	11.19	1	road					4	3.0	4.8	60.0		RCP with concrete HW 3' above pipe North WW 2.8' at 90 degrees		SC9
SC40	Paint twp	56	5.50	1	old walkway					3.5	2.0	3.5			both of fill		SC0
SC5	State PennDot	32	3.18	1	road	x				3	2.7	1.5			CMP 10% blocked by sedimentation		SC
SC53	Shade Twp	1384	65.97	2	road					2	7.0	12.0			North WW 10.5' at 45 degrees	HW AND WW constructed of corrugated metal (steel)	SC3
SC61	Railroad	636	43.98	1	RR					6	7.0	8.0			Both WW 10.5' at 90 degrees Concrete pipe and WW		SC1
SC66	Shade Twp	2175	194.62	1	x					2.2	8.4	29.5	110.0		concrete		SC6
SC74	Shade Twp	186	23.56	1	road					0.5	6.0	5.0	100.0		CMP entrance to pipe is oval shaped and opens to a circle d=6.5'		SC4
SC75	State Rt. 160	65	5.89	1	road					4	2.5	3.0			RCP		SC5
SC79	State Rt. 160	97	12.76	1	road					1.25	3.3	5.0			both WW 5.5' at 60 degrees RCP		SC9
SC96	Paint Twp	402	40.29	1	road					2	5.7	9.0	60.0		CMP east WW 11.5' at 45 degrees West WW 8' at 90 degrees	Pipe is in concrete HW 7' highx 9.5' wide	SC6
SCR1	Southmont Boro	138	9.42	1	Road					7.5	3.0	4.0			solid concrete HW 7' wide 5' hig 2WW 5'each	looks okay. Road not on map?	SCR
SCR2	Southmont Boro	90	4.71	1	Road					14.0	2.0	3.0			RCP encased in msnng HW 4' high 7'wide	They buried bottom 1/3 of pipe	SCR
SCR22	Dale Quail Ave.	154	15.71	1	road					2.5	4.0	5.0			RCP msry HW 8' 2WW 15' each	brick encases the RCP WW breaking up some	SCR2
SCR25	Richland Twp	279	21.60	1	road					5	5.0	5.5			RCP HW msry 7.5' N SW 10' long	SW bottom 20% breaking up HW is not very sturdy	SCR5
SCR26	Richland Twp	140	14.14	1	road					2.5	4.0	4.5	45.0		CMP loose rock as fill	clear, okay	SCR6
SCR27	Richland Twp	308	25.53	1	road					3.5	6.5	5.0	60.0		CMP lots of loose rock as fill	looks good, some minor sticks in front	SCR7
SCR29	56 Penn Dot	2506	87.96	1	road					30	7.0	16.0			msry with cement over HW 9' high 2 WW 7'each	very high gradient stream	SCR9
SCR33	Richland Twp	133	17.28	1	road					1	4.0	5.5			CMP No HW, No SW, No WW	loose rocks as fill all around	SCR3
SCR34	Geistown	349	18.85	2	road					2	4.0	6.0	0.5		2 CMP loose rock fill	south pipe is junky, thus the North pipe was put in	SCR4
SCR35	Geistown	343	17.28	2	road					2.5	4.0	5.5	1.0		2 CMP	pipe	SCR5
SCR37	Geistown 756	2915	106.81	1	road					27	8.0	17.0	45.0		solid concrete, HW 10' N SW 15' S WW 10'	water hits WW, then goes under half moon culvert	SCR7
SCR4	Johnstown near McCort High School	1073	112.31	1	road					0.0	11.0	13.0	80.0		msry cement bottom HW 16.5' high msry SW ~40' each	All man made channel disappears from here	SCR
SCR103	CONEMAUGH TWP	354	43.20	1	road					1	5.0	11.0			BCCMP	Screened rip pad packed as sidewalls	SCR103
SCR106	Comemaugh Twp	41	8.25	1	road					x	3.0	3.5			RCP-Encased in concrete HW-4' high 7.5 wide	Swampy Area	SCR106
SCR108	Conemaugh Twp	2376	94.25	1	road					22	10.0	12.0			Concrete Msry NWW-10' SWW-12' high		SCR108
SCR113	Twp (Holsopple)	102	13.74	1	road					1	3.5	5.0			CMP-	Downstream side-bottom of pipe rusted away	SCR113
SCR123	Mining road Conemaugh Twp	119	8.25	1	road					7	3.0	3.5	45.0		CMP loose rock and dirt fill	okay	SCR123
SCR124	PennDot 403	149	8.25	1	road					x	3.0	3.5			Concrete msry HW-5' high 9' wide No WWs SWs	not blocked, 3 large trocks sitting in culvert	SCR124
SCR125	Paint Twp	67	12.37	1	road					x	3.5	4.5	30.0		concrete msry HW-7.5' wide 5' high	WSW-2.5'	SCR125
SCR129	Penn Dot	499	65.97	1	road					x	7.0	12.0			CMP encased in cement HW-8.5 high	No fill above HW water running in	SCR129

**Box Culvert / Box Bridge Capacity Calculation Sheet**

**Watershed:**

**Stonycreek**

Elliptical Culverts Calculation Sheet

Completed by:

Checked by:

Date(s):

**NOTE: Different parameters assigned to CMP and RCP culverts in capacity column**

T= Amount of fill  
 D= Diameter  
 HT = Height  
 W = Width  
 PW = Pier Width (if applicable)  
 msry = Stone Masonry Structure  
 CMP = Corrugated Metal Pipe  
 CPP = Corrugated Polyethylene Pipe  
 BCCMP = Bituminous Coated Corrugated Metal Pipe

Map ID #	Owner or Address of Obstruction	Capacity (CFS)	Area (SQ. FT)	Nos. of?	Opening				Measurements					material	NOTES	ID No Space	
					Type	Shape (✓)			T (ft)	D (ft)	HT (ft)	W (ft)	PW (ft)				skew angle
						Part of Bridge?	Culvert Purpose	Culvert									
SCR131	Private	190	17.67	1	road						3	4.5	5.0		CMP		SCR131
SCR133	PennDot 403	843	35.74	1	road						20	6.5	7.0		Concrete 2 WWs-10' each	AMD	SCR133
SCR134	Quemahoning Twp	69	11.00	1	road						0.25	4.0	3.5		SP	Flowing well	SCR134
SCR138	TWP Hooversville	1119	70.69	1	road						8	6.0	15.0	30.0	Mrsy N WW 25' wide S SW 8' wide		SCR138
SCR141	Hooversville	102	13.74	1	road						1	3.5	5.0		CMP encased in stone msry	bottom foot filled in with sediment	SCR141
SCR147	Quemahoning Twp	286	30.63	1	road						1.5	6.0	6.5		SP		SCR147
SCR148	Quemahoning Twp	231	30.24	1	road						0.5	5.5	7.0		RCP-No HWs WWs		SCR148
SCR149	Quemahoning Twp	118	8.25	2	road						1	3.0	3.5	2.0	CMP-2 pipes same size one pipe is old and rusted out	backing up	SCR149
SCR151	1001 Old Concrete Run Rd	258	31.42	1	road						1	5.0	8.0		CMP no HW no SW no WW	large opening does not block flow	SCR151
SCR156	Shade	698	98.96	1	x							6.0	21.0	45.0	Mrsy- HW-10' High/50' Wide	AMD	SCR156
SCR157	Private	114	17.67	1	road							5.0	4.5		SP-Flowing Good	Pipe surrounded by rocks	SCR157
SCR164	PennDot 219 Just N of Stonycreek	864	32.99	1	1	219					25	7.0	6.0		solid concrete HW 9' S WW9' W WW 11'	Channelizers?? Under Culvert	SCR164
SCR169	Stoystown	251	32.99	1	road						0	7.0	6.0		cement/msry HW 12' high 20' wide No WW no SW	cement around opening is breaking up	SCR169
SCR180	Quemahoning Twp	65	8.25	1	road						1.5	3.0	3.5		RCP-No HW, No WW, No SW	looks okay	SCR180
SCR188	Shade Twp	1824	127.23	1	road						5	9.0	18.0		CMP encased in concrete HW 10.5' high	flowing well	SCR188
SCR189	Private	103	8.25	1	road						5	3.0	3.5		CMP	backing up	SCR189
SCR194	Penn Dot 30	1430	47.12	1	rb 30						35	5.0	12.0	30.0	Concrete HW 7' E WW 11' W WW 8'	half moon shaped culvert water runs along E WW, then goes under	SCR194
SCR195	Shade Twp	132	15.71	1	road						1.5	4.0	5.0		RCP	solid	SCR195
SCR199	Stonycreek	496	45.95	1	road						2.5	6.5	9.0		SP loose stone/wood HW 7' High 20' Wide	Pipe blocked 15% by wood debris	SCR199
SCR211	Conemaugh Twp	107	12.57	1	road						1.5	4.0	4.0		CMP No water flowing in		SCR211
SCR227	Penn Dot 403	53	10.60	1	road						0	3.0	4.5		CMP-Encased in concrete 2 WWs 4' each	1/4 of pipe filled with stream sediment	SCR227
SCR39	Geistown	98	15.12	1	road						0.5	3.5	5.5		CMP good condition	bottom half foot filled in with stream gravel	SCR39
SCR55	Private	198	25.92	1	Drive way						0.5	5.5	6.0		CMP with rocks around ft stone SWs 10 each		SCR55
SCR56	Private	391	40.84	1	Drive way						1.5	6.5	8.0		SP-2 low angle WWs 10' each		SCR56
SCR57	Private	0	0.00	1	Drive way						1	4.0			SP-encased in cement Stone HW-5' 2 Stone WWs-8' each	Blocked 15.5 with wood debris	SCR57
SCR58	Conemaugh Twp	112	5.89	2	road						2.5	3.0	2.5		2 CMP-both pipes same size	water runs in both equally	SCR58
SCR62	Private	100	14.14	1	road						0.5	4.5	4.0		CMP-Patch Stone SWs	water flowing well	SCR62
SCR63	Private	84	11.78	1	road						1	3.0	5.0		CMP		SCR63
SCR65	Private	84	11.78	1	road						1	3.0	5.0		CMP-stones around pipe		SCR65
SCR66	Private	84	11.78	1	road						1	3.0	5.0		CMP-Patchy stone SWs 8' each		SCR66
SCR72	Conemaugh Twp	217	14.14	2	road						1	4.0	4.5		2 CMPs same size Patchy WW-8' South		SCR72
SCR76	Conemaugh Twp	304	31.42	1	road						2	5.0	8.0		CMP-Encased in stone E-WW-16' Wide	WW made out of msry-water flowing well	SCR76
SCR77	PENNDOT 403	208	36.13	1	road							4.0	11.5	45.0	Concrete NWW-13' wide SW-8'	S WW-18' Water hits N WW-before going under culvert	SCR77
SCR85	Conemaugh Twp	132	15.71	1	road						1.5	4.0	5.0		Sp-Channel is swampy		SCR85
SCR86	Geistown Ohio Street	1728	65.97	1	road						25	7.0	12.0		solid concrete HW10' 2WW 12' each	half moon shaped culvert filled hard to measure	SCR86
SCR87	Richland Twp Belmont/Moxham	118	9.42	1	road						5	3.0	4.0	15.0	CMP No HW, No SW, No WW	RR ties and big rocks around pipe serve no purpose	SCR87
SCR88	PENNDOT 403/Belmont	39	4.71	1	road						2	2.0	3.0		RCP W WW msry 4'	debris all around pipe, looks like it has overflowed	SCR88
SCR90	Eisenhower Blvd PennDot	166	15.71	1	road						3	4.0	5.0		CMP encased in cement 2 WW 8' each HW 5'	half moon culvert stream channel is grassy	SCR90
SCR94	Eisenhower Blvd PennDot	901	54.98	1	road						8	7.0	10.0	15.0	CMP encased in cement HW 8' 2 WW 8' each	Bottom 1' of pipe filled with cement	SCR94
SCR97	PennDot	453	21.60	1	road						15	5.5	5.0		BCCMP-encased in cement HW-6.5' high	W WW-7' E WW-9' Water Flow well	SCR97
SCR98	PennDot 219 exit Davidsville	1594	91.89	1	road						9	9.0	13.0		concrete- HW-11.5' high	2 WWs -12' each Half Moon Culvert	SCR98
SR1	Private	151	17.67	1	road						1.25	5.0	4.5		approx 30' long		SR1
SR102	Somerset Twp	153	17.67	1	road						1.3	5.0	4.5	60.0	CMP		SR102
SR104	Somerset Twp	151	18.85	1	road						1.2	4.0	6.0		into pipe		SR104
SR122	Somerset Twp	84	11.78	1	road						1	3.0	5.0		CMP		SR122

**Box Culvert / Box Bridge Capacity Calculation Sheet**

**Watershed: Stonycreek**

Elliptical Culverts Calculation Sheet

Completed by:

Checked by:

Date(s):

**NOTE: Different parameters assigned to CMP and RCP culverts in capacity column**

T= Amount of fill  
 D= Diameter  
 HT = Height  
 W = Width  
 PW = Pier Width (if applicable)  
 msry = Stone Masonry Structure  
 CMP = Corrugated Metal Pipe  
 CPP = Corrugated Polyethylene Pipe  
 BCCMP = Bituminous Coated Corrugated Metal Pipe

Map ID. #	Owner or Address of Obstruction	Capacity (CFS)	Area (SQ. FT)	Nos. of?	Opening				Measurements						material	NOTES	ID No Space	
					Type	Shape (✓)			T (ft)	D (ft)	HT (ft)	W (ft)	PW (ft)	skew angle				
						Part of Bridge?	Culvert Purpose	Culvert										Bridge
SR134	Quemahoning Twp	94	11.78	1		road	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.5		3.0	5.0		75.0	CMP	SR34
SR139	Lincoln Somerset Twp	455	42.41	1		road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2.5		6.0	9.0			CMP	SR39
SR140	Somerset Twp	399	39.47	1		road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1.75	1.5	6.0	8.0			CMP/CMP smooth inside	SR40
SR185	Coal Company (PBS)	1003	22.58	2		road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18		5.0	5.8			SP	SR85
SR190	Stonycreek Twp	563	51.95	1		road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2.5		6.3	10.5		75.0	SP S WW 5' at 80 degrees	SR90
SR192	State Rt. 30	1192	90.12	1		road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4		8.5	13.5		100.0	East WW 9.5' at 70 degrees	SR92
SR235	Berlin Boro	62	4.71	2		road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1		2.0	3.0			Both CMP	SR35
SR99	Somerset Twp	142	18.85	1		road	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0.3		6.0	4.0		70.0	CMP for 1st 5 feet thn rest is SP	SR9

Duplicated



**Box Culvert / Box Bridge Capacity Calculation Sheet**

**Watershed: Stonycreek**

Arch Culverts Calculation Sheet

Completed by:  
Checked by:  
Date(s):

T= Amount of fill  
D= Diameter  
HT = Height  
W = Width  
PW = Pier Width (if applicable)  
msry = Stone Masonry Structure  
CMP = Corrugated Metal Pipe  
CPP = Corrugated Polyethylene Pipe  
BCCMP = Bituminous Coated Corrugated Metal Pipe

Map ID #	Owner or Address of Obstruction	Capacity (CFS)	Area (SQ. FT)	Nos. of?	Opening				Measurements					skew angle	material	NOTES	ID No Space
					Type	Shape (✓)			T (ft)	D (ft)	HT (ft)	W (ft)	PW (ft)				
						Part of Bridge?	Culvert Purpose	Culvert									
BC1	Penn Dot Mill under 271	902	46.67	1							12	7.0	10.0		msry WW ~12' each HW to road (12')	high water	BC
BC48	Conemaugh Twp	1621	232.50	1	x	road way									MSRY 2 WW/1 HW 12' high EWW 12' WW WW 12'	built in 1917 still in good shape rocks on sides	BC8
PC35	Richanland Twp	53782	1632.00	1							30	36.0	68.0	110.0	North WW 35' at 45 degrees South WW 38' at 45 degrees		PC5
PC42	Windber Twp	848	64.00	1							4.8	6.0	16.0		made from concrete		PC2
PC77	Private	472	61.33	1	x						1	4.0	23.0		wooden arch bridge walkway		PC7
QC138	Private	#DIV/0!	0.00	4		road					1	4.0	12.0		4 RCPs have loose rocks - Arch bridge now installed	water flowing in well	QC38
QC172	Lincoln Twp	1381	170.67	1	x							8.0	32.0	45.0	Concrete HW 44' Wide 12.5' high	Bridge is not old, in good shape	QC72
QC26	Quemahoning Twp	964	132.17	1	x							6.5	30.5	45.0	Solid cement W HW 11.5' E WW 10.5'	neither HW nor WW look like they are needed	QC6
QC41	Jenner Twp	1037	146.00	1	x							6.0	37.0	30.0	msry HW 11' 2 WW 12' each	WW at a low angle HW showing wear	QC1
QC52	Jenner Twp	3147	242.00	1	x					3		11.0	33.0		msry HW 15' N WW buried, S WW 12'	solid	QC2
QC96	Lincoln Twp (Quecreek)	1956	228.00	1	x							9.0	38.0		msry HW 12.5' S SW 40/5' high	S WW 10' Wide N WW 13' Wide Built 1917	QC6
QC99	Lincoln Twp	767	120.00	1	x										msry HW 9' Low angle WWs 2 WW 11' each Bridge built in 1914		QC9
SC107	Shade Twp	2633	191.49	1	x							4.5	8.6	33.4	South WW 12' at 75 degrees W WW 23' at 45 degrees Concrete WW and HW		SC07
SC122	Railroad Norfolk Southern	16331	661.33	1	x							13.5	31.0	32.0	North WW 32' at 90 degrees South WW 32' at 60 degrees HW and WW msry		SC22
SC135	Railroad Company	3914	144.67	1	x							22	14.0	15.5	Both WW 18' at 90 degrees (stone construction)		SC35
SC94	State Rt. 160 Central City	2899	194.07	1	x							5.4	8.2	35.5	Both WW 9.2' at 60 degrees HW and WW Concrete		SC4
SCR137	TWP Hooversville Borough	532	76.00	1	x								6.0	19.0	concrete HW 13' high		SCR137
SCR173	Quemahoning Twp	810	126.67	1	x								5.0	38.0	msry HW 65' wide 14' high	solid	SCR173
SCR177	Quemahoning Twp	1381	170.67	1	x								8.0	32.0	msry HW 12' high 40' wide 2 low angle WW	N WW 18' S WW 9' Road is in horrible shape	SCR177
SCR191	Shade Twp	1802	210.00	1	x								9.0	35.0	Concrete Msry Built over, water flowing under east end, HW 14' High	New concrete on top of msry water flowing well, nice stream bridge looks good	SCR191
SCR52	Conemaugh Twp	431	53.33	1		road							8.0	10.0	CMP-encased in Cement	East SW-8'	SCR52
SCR82	PENNDOT 403	569	78.00	1		road							6.5	18.0	Concrete WWS8' high NWW-12' SWW-14'	Runs along SSW before going under bridge, Half moon culvert	SCR82
SR148	Quemahoning Twp	2388	176.00	1	x							4.5	8.0	33.0	North WW 21' at 10 degrees South WW 12' at 20 feet HW and WW msry		SR48
SR156	Quemahoning Twp	2385	156.00	1	x							7	6.0	39.0	HW msry		SR56
SR195	PA Turnpike 70/76	6125	224.00	1	X							24	14.0	24.0	Both WW 20.5' at 45 degrees HW and WW concrete		SR95
SR196	PA Turnpike 70/76	3097	164.27	1	X							10	11.2	22.0	Both WW 14.3' at 60 degrees HW and WW concrete		SR96
SR43	State owned PA Turnpike	11358	277.20	2	x							12	12.6	33.0	West WW 25' at 30 degrees East WW 20' at 90 degrees HW and WW are concrete		SR3
SR90	Somerset Twp	568	52.00	1	x								6.5	12.0	Both WW 11.5 at 30 degrees HW and WW concrete		SR0

**Box Culvert / Box Bridge Capacity Calculation Sheet**

**Watershed:** Neshaminy Creek  
 Completed by:  
 Checked by:  
 Date(s):

No Data Culverts Calculation Sheet

T= Amount of fill  
 D= Diameter  
 HT = Height  
 W = Width  
 PW = Pier Width (if applicable)  
 mry = Stone Masonry Structure  
 CMP = Corrugated Metal Pipe  
 CPP = Corrugated Polyethylene Pipe  
 BCMP = Bituminous Coated Corrugated Metal Pipe

#	of Obstruction	(CFS)	of?	Opening				Measurements					material	ID No Space		
				Type		Shape (✓)		T	D	HT	W	PW				
				Bridge?	Purpose	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	angle				
BC115	Private		2	road			4.00	4.0					5.0	2 CMP pipes pinched and squeezed down	See Drawing (over)	BC15
BC135	Jehner Twp		1	road			2.5	2.5						CMP	upstream pipe is old and rusty, downstream pipe looks better	BC35
BC35	Conemaugh Twp		1	road			2		4.5	5.0				BCCMP rock/cement pipe has rocks surrounding it HW 12' W	Long south SW 50' made of stone	BC0
OC101	Lincoln Twp		1	road			2.5		4.0	4.5				CPP stream channel grassy	water runs out of swampy ditch	OC01
OC11	Conemaugh Twp		1	road			2		3.0	3.5				RCP loose rocks around pipe	Concrete turns in to CPP under road	OC1
OC17	Conemaugh Twp		1	x	road				1.0	18.0				MSRY HW 3' 2 WWS 5' each	Water flooded from nearby pond	OC7
OC26	Lincoln Twp		1	road			3	2.0						CMP		OC26
OC9	Private		1	road					5.0	6.0				SP water going in well	Cement slab laying flat on top of pipe for headwall	OC
SC10	Ogile Twp			road			1.5	2.5					120.0	CPP smooth inside		SC0
SC116	Railroad		6	x	road		6.5							See Back # 116		SC16
SC37	Paint Twp		2	road			1.7	1.8					120.0	RCP with concrete HW 1.7' above top of pipe		SC7
SC38	Paint Twp		2	old road			2	1.8						RCP on an old road grade		SC8
SC55	Shade Twp		2				2.5	3.5						RCP	all water is in middle pipe	SC5
SC6	State (Penn Dot)						4		8.0	29.6				and WW concrete		SC
SC7	Private owned						1		3.0	20.0				wooden bridge with wood supports and 2x4 decking		SC
SC81	Shade Twp			road			1		3.0	2.8			120.0	SP		SC1
SC9	Ogile Twp			x	road		1.7		4.0	27.5			70.0	east WW 14' at 30 degrees West WW 10' at 90 degrees	HW and WW concrete steel support beams asphalt/wood decking	SC
SC88	Railroad								15.0	12.0				and WW constitutional of slope		SC8
SCR115	403 Benson		2	x	road		10.7		13.0	185.0		3.5		cement bridge N SW 20' S WW 20'	looks good	SCR115
SCR43	Conemaugh Twp Recreation Park			x	road				10.0	38.0				Concrete-2 WWS HW 13' high	North WW-8' S WW 16' Kaufman Bridge built in 1988	SCR43
SCR48	Conemaugh Twp			x	road				13.0	52.0				Mary-no SW WWS	Old -made of 1 beams wood concrete	SCR48
SCR53	Private								5.0	9.0				Concrete NWW-15' S WW-10'		SCR53
SCR91	Richland Twp		1	road			0		10.0	9.0			45.0	CMP encased in cement HW 11' E WW 13' W WW 100' +	water runs along W WW for 100+ then goes under	SCR91
SR166	Stonycreek Twp			road									60.0	Sec #166 on back SP		SR166
SR172	Private			x	road		1.5		5.0	25.0				HW mry		SR172

**D. DATA COLLECTION FORMS  
(FORMS A, C – J, O)**







FORM D - PROPOSED FLOOD CONTROL PROJECT

SHEET 1 OF 1

WATERSHED  
 Name: STONEYCREEK  
 Municipality: WESTMONT BORO  
 County: CAMARIA

FORM COMPLETED BY  
 Name: N.F. VANZ Co.  
 Name: RICK GREENE  
 Telephone: 814-269-9846  
 Date: 8-10-2001

TYPICAL TYPES OF FLOOD CONTROL PROJECTS

Channel Excavation / Widening	Levee	Dams
Channel Realignment	Gabions	Floodwall
Rock Riprap	Pipe Channel	Concrete Lining

For County Use:

Map ID No.	Type of Flood Control Project	Study Phase Begun			Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Flood		Map ID No. Form A*	Owner Name, Address, and Phone
		YES		NO				Frequency Yrs.	Discharge C.F.S.		
		Prelim.	Final								
D-	THERE ARE NO PROPOSED FLOOD CONTROL PROJECTS.										
D-											
D-											
D-											
D-											
D-											
D-											

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.





FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

SHEET 1 OF 1

WATERSHED  
 Name: STONYCREEK  
 Municipality: WESTMONT BORO  
 County: SARBERIA

FORM COMPLETED BY  
 Name: H.F. LENZ Co.  
 Name: RICK BACHM  
 Telephone: 914-269-9346  
 Date: 8-10-2005

INSTRUCTIONS  
 Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *			Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility		
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale								
					D	TW	B	Depth						
G-	G-	DRAWINGS INDICATING THE WESTMONT BORO'S STORM DRAINAGE FACILITIES LOCATED WITHIN THE STONYCREEK WATERSHED ARE ENCLOSED.												
G-	G-													
G-	G-													
G-	G-													
G-	G-													
G-	G-													
G-	G-													
G-	G-													
G-	G-													
G-	G-													

\* See measurement key on reverse side.









# UPPER YODER TOWNSHIP SUPERVISORS

Cambria County  
302 Elim Street  
Johnstown, PA 15905  
(814) 255-5243  
Fax (814) 255-1805

RECEIVED

JUN 23 2003

CARRIE J. JOHNSON  
CONSERVATION DISTRICT

Mr. Robb Piper, Director  
Cambria County Conservation District  
401 Candlelight Drive  
Suite 221  
Ebensburg, PA 15931

Subject: Stonycreek River Act 167 Stormwater  
Management Plan  
Phase I-Scope of Study

Dear Robb:

Attached, please find one copy of Form A – Stormwater Problem Areas and one “marked-up” copy of Sheet No. UYT-ZM-1, Zoning Map. This information is submitted for your use in completing the subject project. Upper Yoder Township could provide the attached map in digital form along with Township wide aerial mapping in digital form.

Please contact this office if you have any questions or require additional clarification or information to complete your project. My email address is: [kmesko@charter.net](mailto:kmesko@charter.net)

Sincerely,

UPPER YODER TOWNSHIP



Kenneth A. Mesko, P.E.  
Township Engineer

<b>WATERSHED</b> Name: <u>Stony Creek River</u> Municipality: <u>Upper Yuba Twp</u> County: <u>Camden</u>	<b>FORM COMPLETED BY</b> Name: <u>Ken Meste</u> Telephone: <u>814-255-5243</u> Date: <u>6-18-03</u>	Before Filling Out Form, See Instructions On Back  For County Use:
--	--	---

MAP NO. *	A-1	A-2	A-3	A-4	A-5	A-6	A-7	A-8	A-	A-	A-	A-	A-	A-	A-	A-
<b>Types of Storm Water Problems</b>																
Flooding	✓	✓	✓	✓	✓	✓	✓									
Accelerated Erosion				✓												
Sedimentation																
Landslide																
Groundwater																
Water Pollution																
Other (Explain)																
Explanation Line No. <u>1</u>								✓								
<b>Cause (s)</b>																
Storm Water Volume	✓	✓	✓	✓	✓	✓	✓									
Storm Water Velocity	✓	✓	✓	✓	✓	✓	✓									
Storm Water Direction	✓	✓	✓	✓	✓	✓										
Water Obstruction																
Other (Explain)																
Explanation Line No.																
<b>Frequency</b>																
Year Most Recent Occurred																
Year First Known Occurred																
<b>Regularity</b>																
More Than 1 Year																
Less Than 1 Year	✓	✓	✓	✓	✓	✓	✓									
Only During Agnes																
<b>Duration (If Applicable)</b>																
Less Than 1 Day	✓	✓	✓	✓	✓	✓	✓									
1 Day + (Enter Days)																
<b>Property Damage</b>																
Loss of Life/Vital Services																
Private	✓	✓	✓	✓	✓	✓	✓									
More Than One Owner																
Types of Properties																
Number of Properties																
Public (List Types)							✓									
Explanation Line No.																
<b>Solutions</b>																
Suggested																
Explanation Line No.																
Formally Proposed																
Explanation Line No.																

\* Include Map ID No. if found on any other form listing proposed facilities.

- EXPLANATION LINE(S)
- 1) FIRM NOT COMPLETED
  - 2) \_\_\_\_\_
  - 3) \_\_\_\_\_
  - 4) \_\_\_\_\_
  - 5) \_\_\_\_\_
  - 6) \_\_\_\_\_
  - 7) \_\_\_\_\_
  - 8) \_\_\_\_\_



## Terry Ostrowski

---

**From:** Robb Piper [piper@co.cambria.pa.us]  
**Sent:** Monday, July 07, 2003 10:20 AM  
**To:** Terry Ostrowski  
**Subject:** Re: Berlin Boro - Stonycreek

Just got a call from Stoystown and they have no problems, please count them in the response tally for the scope of study

----- Original Message -----

**From:** Terry Ostrowski  
**To:** Robb Piper (piper@co.cambria.pa.us)  
**Sent:** Thursday, June 26, 2003 2:47 PM  
**Subject:** Berlin Boro - Stonycreek

Robb;

FYI.

Kerry Claycomb from Berlin Boro, Somerset Co. contact me and will be sending their problem area information directly to our office.

Terry



<b>WATERSHED</b>		<b>FORM COMPLETED BY</b>			<b>Before Filling Out Form, See Instructions On Back</b>		
Name: <u>Greg Walker</u>		Name: <u>Greg Walker</u>			For County Use:		
Municipality: <u>Stony Creek Twp</u>		Telephone: <u>814-267-3212</u>					
County: <u>Somerset</u>		Date: <u>August 19 2005</u>					

MAP NO. *	A-1	A-2	A-3	A-	A-	A-	A-	A-	A-	A-	A-
<b>Types of Storm Water Problems</b>											
Flooding	✓	✓	✓								
Accelerated Erosion											
Sedimentation	✓	✓	✓								
Landslide											
Groundwater											
Water Pollution											
Other (Explain)											
Explanation Line No. (On Back)	✓	✓	✓								
<b>Cause (s)</b>											
Storm Water Volume											
Storm Water Velocity											
Storm Water Direction											
Water Obstruction	✓	✓	✓								
Other (Explain)											
Explanation Line No. (On Back)											
<b>Frequency</b>											
Year Most Recent Occurred											
Year First Known Occurred											
<b>Regularity</b>											
More Than 1 Year	✓	✓	✓								
Less Than 1 Year											
Only During Agnes											
<b>Duration (if Applicable)</b>											
Less Than 1 Day											
1 Day + (Enter Days)	5	2	2								
<b>Property Damage</b>											
Loss of Life/Vital Services											
Private											
More Than One Owner											
Types of Properties											
Number of Properties											
Public (List Types)											
Explanation Line No. (On Back)											
<b>Solutions</b>											
Suggested											
Explanation Line No. (On Back)											
Formally Proposed											
Explanation Line No. (On Back)											

\* Include Map ID No. if found on any other form listing proposed facilities.



A-1 - Swamp Hollow Road TR-509. This road is located at the headwaters of the Stonycreek river. This road experiences constant flooding in the spring of the year. Water swells to a depth of 12 inches on approximately one tenth of a mile of this roadway. Beavers ~~and~~ Dams, sediment and thick growth seem to have completely clogged the main streambed. Average times this road floods is approximately 12 times per year. This continuously wash road material such as gravel from the road bed and causes sedimentation in the streambed.

A-2 Baltzer Bridge Road - TR-539. A portion of this road has flooding during more heavy rainstorms caused by beaver dams that backup the drainage of water runoff. The dams cause backups of sedimentation and causes heavy vegetation growth in the streambed.

A-3 Piney Run Road TR-726 A portion of this road has flooding during heavy rainstorms caused by beaver dams. This area is upstream from the Baltzer Bridge Road. Heavy vegetation growth is also in the streambed.

**RECEIVED**

AUG 9. 2005

CAMDEN COUNTY  
CONSERVATION DISTRICT



N/A



**FORM D - PROPOSED FLOOD CONTROL PROJECT**

SHEET \_\_\_\_\_ OF \_\_\_\_\_

<b>WATERSHED</b>  Name: _____ Municipality: _____ County: _____	<b>FORM COMPLETED BY</b>  Name: _____ Telephone: _____ Date: _____	<b>TYPICAL TYPES OF FLOOD CONTROL PROJECTS</b>  <table style="width:100%; border:none;"> <tr> <td style="width:33%;">Channel Excavation / Widening</td> <td style="width:33%;">Levee</td> <td style="width:33%;">Dams</td> </tr> <tr> <td>Channel Realignment</td> <td>Gabions</td> <td>Floodwall</td> </tr> <tr> <td>Rock Riprap</td> <td>Pipe Channel</td> <td>Concrete Lining</td> </tr> </table>	Channel Excavation / Widening	Levee	Dams	Channel Realignment	Gabions	Floodwall	Rock Riprap	Pipe Channel	Concrete Lining
Channel Excavation / Widening	Levee	Dams									
Channel Realignment	Gabions	Floodwall									
Rock Riprap	Pipe Channel	Concrete Lining									

For County Use: \_\_\_\_\_

Map ID No.	Type of Flood Control Project	Study Phase Begun			Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Flood		Map ID No. Form A*	Owner Name, Address, and Phone
		YES		NO				Frequency Yrs.	Discharge C.F.S.		
		Prelim.	Final								
D-											
D-											
D-											
D-											
D-											
D-											
D-											

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.



N/A



**FORM F - PROPOSED STORM WATER CONTROL FACILITIES**

SHEET \_\_\_\_\_ OF \_\_\_\_\_

<b>WATERSHED</b> Name: _____ Municipality: _____ County: _____	<b>FORM COMPLETED BY</b> Name: _____ Telephone: _____ Date: _____	<b>DEFINITION</b> Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.
---	--	--

For County Use: \_\_\_\_\_

Map ID No.	Type of Storm Water Control Facility	Proposed Constr. Dates		Map No. Form A*	Contact Person Name, Address and Phone	Comments
		Start	End			
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

**TYPICAL TYPES OF STORM WATER CONTROL FACILITIES**

- |  |  |
|--|--|
| Detention / Retention Basin<br>Natural Pond or Wetland<br>Parking Lot Pondling | Roof-Top Storage<br>Semi-Pervious Paving<br>Infiltration Device (Seepage / Recharge Basin or Underground Tank) |
|--|--|









N/A



WATERSHED

Name: \_\_\_\_\_  
 Municipality: \_\_\_\_\_  
 County: \_\_\_\_\_

FORM COMPLETED BY

Name: \_\_\_\_\_  
 Telephone: \_\_\_\_\_  
 Date: \_\_\_\_\_

SITE	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-
<b>Types of Water Quality Problems</b>												
High Community Tolerance												
High Temperature												
High Turbidity												
Hydrocarbon Pollution												
Low Community Diversity												
Low Dissolved Oxygen												
Low pH												
Nutrient Enrichment												
Poor Habitat												
Other/Explanation Line No.												
<b>Potential Cause(s)</b>												
Agriculture												
Construction Site												
Erosion												
Lake Discharge												
STP Outfall												
Other/Explanation Line No.												
<b>Frequency</b>												
Year Most Recent Occurrence												
Year First Known Occurrence												
<b>Source of Information</b>												
BWA Streamwatch												
County Water Quality Study												
Driveby												
UCCD Complaint Investigation												
Other/Explanation Line No.												

EXPLANATION LINES

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

JUN 16 2003

FORM A - STORM WATER PROBLEM AREAS

SHEET \_\_\_\_\_ OF \_\_\_\_\_

WATERSHED: _____ Name: <u>TERRY BERKOBUS</u> Municipality: <u>STONYCREEK</u> County: <u>CAMBRIA</u>		FORM COMPLETED BY Name: <u>TERRY</u> Telephone: <u>(814) 266-3111</u> Date: <u>6-13-03</u>		Before Filling Out Form, See Instructions On Back  For County Use:	
--	--	---	--	---	--

MAP NO. *	A-1	A-2	A-3	A-4	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-
<b>Types of Storm Water Problems</b>																
Flooding	✓															
Accelerated Erosion																
Sedimentation		✓														
Landslide																
Groundwater	✓		✓	✓												
Water Pollution																
Other (Explain)																
Explanation Line No.																
<b>Cause (s)</b>																
Storm Water Volume	✓	✓	✓	✓												
Storm Water Velocity		✓														
Storm Water Direction																
Water Obstruction																
Other (Explain)																
Explanation Line No.																
<b>Frequency</b>																
Year Most Recent Occurred	2003	2003	2003	2003												
Year First Known Occurred	1977	1977	1977	1977												
<b>Regularity</b>																
More Than 1 Year		✓														
Less Than 1 Year	✓		✓	✓												
Only During Agnes																
<b>Duration (If Applicable)</b>																
Less Than 1 Day			✓	✓												
1 Day + (Enter Days)	3+															
<b>Property Damage</b>																
Loss of Life/Vital Services																
Private	✓		✓	✓												
More Than One Owner	✓	✓	✓	✓												
Types of Properties																
Number of Properties																
Public (List Types)																
Explanation Line No.																
<b>Solutions</b>																
Suggested																
Explanation Line No.																
Formally Proposed																
Explanation Line No.																

\* Include Map ID No. if found on any other form listing proposed facilities.

- EXPLANATION LINE(S)
- 1) A-1 FLOODING FROM RIVER, ALSO OVERFLOWING SEWER SYSTEM
  - 2) A-2 STREAM SEDIMENTATION ACCUMULATING AT PEARLS BASINS
  - 3) A-3 ?
  - 4) A-4 } SANITARY SEWER OVERFLOWS DURING HEAVY STORMS
  - 5)
  - 6)
  - 7)
  - 8)





**Paul C. Rizzo Associates, Inc.**  
ENGINEERS & CONSULTANTS

August 17 , 2005

Project No. 00-2253.86

Mr. Robb Piper  
Cambria County Conservation District  
401 Candlelight Drive, Suite 221  
Ebensburg, PA 15931

**TRANSMITTAL  
STONYCREEK RIVER STORMWATER PLAN  
SOUTHMONT BOROUGH, CAMBRIA COUNTY**

Dear Mr. Piper:

In accordance with your request for information, enclosed is the stormwater forms packet from Southmont Borough, Cambria County.

Sincerely yours,  
**Paul C. Rizzo Associates, Inc.**

Mark W. Lazzari  
Watershed/Land Use Planner

MWL/RJF/ljr  
Enclosure

pc: Southmont Borough Supervisors

**RECEIVED**

**AUG 19 2005**

**CAMBRIA COUNTY  
CONSERVATION DISTRICT**

647 MAIN STREET • SUITE 200 • JOHNSTOWN, PA 15901  
L001-2253.086/00 PHONE (814) 536-6767 • FAX (814) 536-6770  
web address: [www.rizzoassoc.com](http://www.rizzoassoc.com) • email: [pcra.johnstown@rizzoassoc.com](mailto:pcra.johnstown@rizzoassoc.com)

PITTSBURGH, PA (CORP. HQ)  
BUENOS AIRES, ARGENTINA

COLUMBIA, SC  
ST. PETERSBURG, RUSSIA

COLUMBUS, OH  
PLZEN, CZECH REPUBLIC

WALDWICK, NJ  
PLZEN, CZECH REPUBLIC

<b>WATERSHED</b> Name: Municipality: <u>Boro of Southmead</u> County: <u>Cambridge</u>	<b>FORM COMPLETED BY</b> Name: <u>Jan L. Bosley</u> Telephone: <u>814-255-3104</u> Date: <u>6-16-03</u>	Before Filling Out Form, See Instructions On Back  For County Use:
---	--	---

MAP NO. *	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-
<b>Types of Storm Water Problems</b>																
Flooding																
Accelerated Erosion																
Sedimentation																
Landslide																
Groundwater																
Water Pollution																
Other (Explain)																
Explanation Line No.																
<b>Cause (s)</b>																
Storm Water Volume																
Storm Water Velocity																
Storm Water Direction																
Water Obstruction																
Other (Explain)																
Explanation Line No.																
<b>Frequency</b>																
Year Most Recent Occurred																
Year First Known Occurred																
<b>Regularity</b>																
More Than 1 Year																
Less Than 1 Year																
Only During Agnes																
<b>Duration (If Applicable)</b>																
Less Than 1 Day																
1 Day + (Enter Days)																
<b>Property Damage</b>																
Loss of Life/Vital Services																
Private																
More Than One Owner																
Types of Properties																
Number of Properties																
Public (List Types)																
Explanation Line No.																
<b>Solutions</b>																
Suggested																
Explanation Line No.																
Formally Proposed																
Explanation Line No.																

\* Include Map ID No. if found on any other form listing proposed facilities.

EXPLANATION LINE(S)

1) 6/19 - Confirmed with Borough Secretary that there are no problems

2) (telephone)

3) [Signature]

4)

5)

6)

7)

8)



WATERSHED

Name: Chesney Run  
 Municipality: Southwest Berks  
 County: Cambridge

FORM COMPLETED BY  
 Name: Mark W. Lazzari  
 Telephone: 84 536-6767  
 Date: \_\_\_\_\_

Before Filling Out Form,  
 See Instructions On Back  
 For County Use:

MAP NO. \*

**Types of Storm Water Problems**

Flooding

Accelerated Erosion

Sedimentation

Landslide

Groundwater

Water Pollution

Other (Explain)

Explanation Line No. (On Back)

**Cause (s)**

Storm Water Volume

Storm Water Velocity

Storm Water Direction

Water Obstruction

Other (Explain)

Explanation Line No. (On Back)

**Frequency**

Year Most Recent Occurred

Year First Known Occurred

**Regularity**

More Than 1 Year

Less Than 1 Year

Only During Agnes

**Duration (if Applicable)**

Less Than 1 Day

1 Day + (Enter Days)

**Property Damage**

Loss of Life/Vital Services

Private

More Than One Owner

Types of Properties

Number of Properties

Public (List Types)

Explanation Line No. (On Back)

**Solutions**

Suggested

Explanation Line No. (On Back)

Formally Proposed

Explanation Line No. (On Back)

*MSA*

\* Include Map ID No. if found on any other form listing proposed facilities.

FORM C - EXISTING FLOOD CONTROL PROJECT

WATERSHED		FORM COMPLETED BY		TYPICAL TYPES OF FLOOD CONTROL PROJECTS		
Name:	<u>Cheney Run</u>	Name:	<u>Mark W. Lazzari</u>	Channel Excavation / Widening Channel Realignment Rock Riprap	Levee Gabions Pipe Channel	Dams Floodwall Concrete Lining
Municipality:	<u>Southmont Boro</u>	Telephone:	<u>814-536-6767</u>			
County:	<u>Cambridge</u>	Date:	<u>8/17/05</u>			

For County Use:

Map ID No.	Type of Flood Control Project	Year Constr Built	Expected Life Yrs.	Design Flood		Owner Name, Address, and Phone
				Frequency Yrs.	Discharge C.F.S.	
C- 1	<u>Cheney Run Flood Control Project Trapezoidal Concrete Lined Channel</u>	<u>1987</u>	<u>50+</u>	<u>100</u>		<u>Southmont Borough 814-255-3104 148 Wonder Street Johnstown, PA 15905</u>
C- 2	<u>84" Concrete Pipe - Enclosed</u>	<u>1977</u>	<u>50+</u>	<u>100</u>		<u>" "</u>
C-						
C-						
C-						
C-						
C-						



FORM D - PROPOSED FLOOD CONTROL PROJECT

SHEET \_\_\_\_\_ OF \_\_\_\_\_

WATERSHED	FORM COMPLETED BY	TYPICAL TYPES OF FLOOD CONTROL PROJECTS		
Name: <u>Cheney Run</u>	Name: <u>Mark W. Lazzari</u>	Channel Excavation / Widening	Levee	Dams
Municipality: <u>Southmost Boro</u>	Telephone: <u>814-536-6767</u>	Channel Realignment	Gabions	Floodwall
County: <u>Cambria</u>	Date: _____	Rock Riprap	Pipe Channel	Concrete Lining

For County Use:

Map ID No.	Type of Flood Control Project	Study Phase Begun			Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Flood		Map ID No. Form A*	Owner Name, Address, and Phone
		YES		NO				Frequency Yrs.	Discharge C.F.S.		
		Prelim.	Final								
D-											
D-											
D-											
D-											
D-											
D-											
D-											

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.





FORM F - PROPOSED STORM WATER CONTROL FACILITIES

SHEET 1 OF 1

WATERSHED  
 Name: Cheney Run  
 Municipality: Southmont Boro  
 County: Cambria

FORM COMPLETED BY  
 Name: Mark W. Lazzari  
 Telephone: 814-536-6767  
 Date: 8/17

**DEFINITION**  
 Storm Water Control Facility  
 A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.

For County Use:

Map ID No.	Type of Storm Water Control Facility	Proposed Constr. Dates		Map No. Form A*	Contact Person Name, Address and Phone	Comments
		Start	End			
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						

N A

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

TYPICAL TYPES OF STORM WATER CONTROL FACILITIES

- Detention / Retention Basin
- Natural Pond or Wetland
- Parking Lot Pondling

- Roof-Top Storage
- Semi-Pervious Paving
- Infiltration Device (Seepage / Recharge Basin or Underground Tank)



**FORM G - EXISTING STORM WATER COLLECTION SYSTEMS**

SHEET 1 OF 1

WATERSHED  
 Name: Cheney Run  
 Municipality: Southmont Boro  
 County: Cambria

FORM COMPLETED BY  
 Name: Mark W. Lazzari  
 Telephone: 814-536-6767  
 Date: 8/17/05

INSTRUCTIONS  
 Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *				Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale							
						TW	B	Depth					
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												

*Attached MS4 Permit outfall map is All Available*

\* See measurement key on reverse side.



FORM I - PRESENT & PROJECTED DEVELOPMENT IN THE FLOOD HAZARD AREA

SHEET 1 OF 1

WATERSHED	FORM COMPLETED BY	DEFINITION
Name: <u>Cheney Run</u>	Name: <u>Mark W. Lazzari</u>	FLOOD HAZARD AREA: A NORMALLY DRY LAND AREA THAT HAS BEEN OR IS SUSCEPTABLE TO BEING INUNDATED BY THE 100-YEAR FLOOD.
Municipality: <u>Southmont Boro</u>	Telephone: <u>814 536-6767</u>	
County: <u>Cambria</u>	Date: <u>8/17/05</u>	

For County Use:

Map ID No.	TYPE OF DEVELOPMENT	Year Built	Contact Person Name, Address and Phone	Comments
1-				
1-			See Attached FEMA Map	
1-			NA	
1-				
1-				
1-				
1-				
1-				



WATERSHED

FORM COMPLETED BY

Name: Chenay Run  
 Municipality: Southmont Boro  
 County: Cambridge

Name: Mark W. Lazzari  
 Telephone: 814 536-6767  
 Date: \_\_\_\_\_

SITE	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-
<b>Types of Water Quality Problems</b>												
High Community Tolerance												
High Temperature												
High Turbidity												
Hydrocarbon Pollution												
Low Community Diversity												
Low Dissolved Oxygen												
Low pH												
Nutrient Enrichment												
Poor Habitat												
Other/Explanation Line No.												
<b>Potential Cause(s)</b>												
Agriculture												
Construction Site												
Erosion												
Lake Discharge												
STP Outfall												
Other/Explanation Line No.												
<b>Frequency</b>												
Year Most Recent Occurrence												
Year First Known Occurrence												
<b>Source of Information</b>												
BWA Streamwatch												
County Water Quality Study												
Driveby												
UCCD Complaint Investigation												
Other/Explanation Line No.												

EXPLANATION LINES

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

APPROXIMATE SCALE

420239

NATIONAL FLOOD INSURANCE PROGRAM

**FIRM**

**FLOOD INSURANCE RATE MAP**

**and**

**STREET INDEX**

BOROUGH OF  
SOUTHIMONT,  
PENNSYLVANIA  
CAMBRIA COUNTY

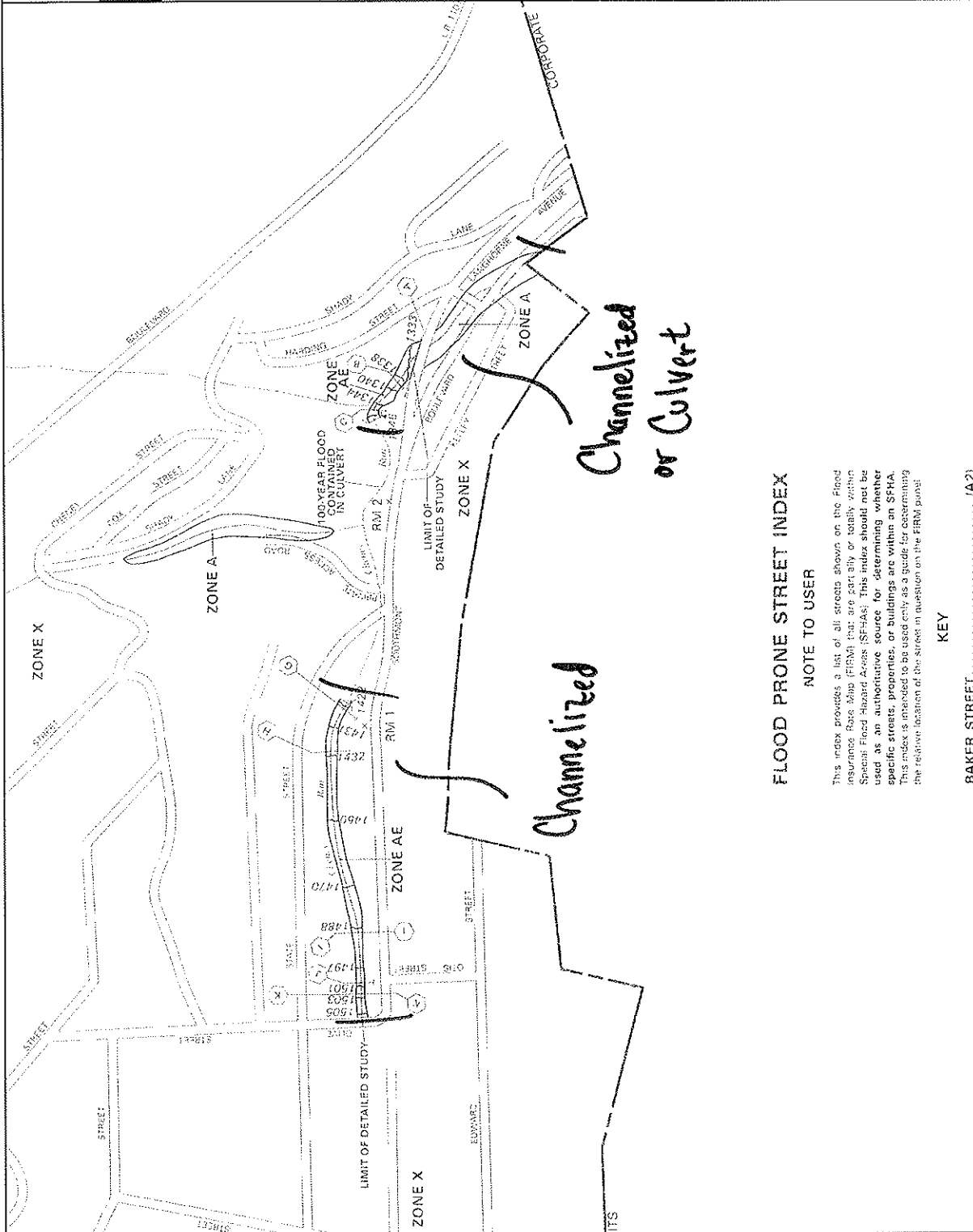
ONLY PANEL PRINTED

COMMUNITY PANEL NUMBER  
420239 0001 A

EFFECTIVE DATE:  
APRIL 2, 1990

Federal Emergency Management Agency

This is the FEMA Flood Insurance Rate Map (FIRM) for the Southimont Borough, Pennsylvania. It was prepared using FEMA Form 420239. This map does not reflect changes or amendments which may have been made subsequent to the date of the original map. For more information, contact the FEMA Flood Insurance Service at www.fema.gov.



**FLOOD PRONE STREET INDEX**

**NOTE TO USER**

This index provides a list of all streets shown on the Flood Insurance Rate Map (FIRM) that are partially or totally within Special Flood Hazard Areas (SFHAs). This index should not be used as an authoritative source for determining whether specific streets, properties, or buildings are within an SFHA. This index is intended to be used only as a guide for determining the relative location of the street in question on the FIRM panel.

**KEY**

BAKER STREET (A2)





<b>WATERSHED</b>		<b>FORM COMPLETED BY</b>				<b>Before Filling Out Form, See Instructions On Back</b>					
Name: <u>STONYCREEK</u>		Name: <u>J. BIANCOTTI</u>				For County Use:					
Municipality: <u>SOMERSET TWP</u>		Telephone: <u>814-445-4675</u>									
County: <u>SOMERSET CO.</u>		Date: <u>6/30/01</u>									

MAP NO. *	A-1	A-2	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-
<b>Types of Storm Water Problems</b>												
Flooding	✓	✓										
Accelerated Erosion												
Sedimentation	✓	✓										
Landslide												
Groundwater												
Water Pollution												
Other (Explain)												
Explanation Line No. (On Back)												
<b>Cause (s)</b>												
Storm Water Volume												
Storm Water Velocity												
Storm Water Direction												
Water Obstruction												
Other (Explain)												
Explanation Line No. (On Back)												
<b>Frequency</b>												
Year Most Recent Occurred	<u>2004</u>	<u>2004</u>										
Year First Known Occurred												
<b>Regularity</b>												
More Than 1 Year	✓	✓										
Less Than 1 Year												
Only During Agnes												
<b>Duration (If Applicable)</b>												
Less Than 1 Day												
1 Day + (Enter Days) <b>+</b>	✓	✓										
<b>Property Damage</b>												
Loss of Life/Vital Services												
Private	✓	✓										
More Than One Owner												
Types of Properties												
Number of Properties												
Public (List Types)												
Explanation Line No. (On Back)												
<b>Solutions</b>												
Suggested	✓	✓										
Explanation Line No. (On Back)												
Formally Proposed												
Explanation Line No. (On Back)												

\* Include Map ID No. if found on any other form listing proposed facilities.



WATERSHED		FORM COMPLETED BY					Before Filling Out Form, See Instructions On Back									
Name: STONYCREEK RIVER		Name: JACK BIANCOTTI														
Municipality: SOMERSET TWP		Telephone: 814-445-4675					For County Use:									
County: SOMERSET CO.		Date: 6/2/03														
MAP NO. *	A-1	A-2	A-3	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	
<b>Types of Storm Water Problems</b>																
Flooding	✓															
Accelerated Erosion																
Sedimentation	✓															
Landslide																
Groundwater																
Water Pollution		✓	✓													
Other (Explain)																
Explanation Line No.		1	1													
<b>Cause (s)</b>																
Storm Water Volume	✓															
Storm Water Velocity	✓															
Storm Water Direction																
Water Obstruction																
Other (Explain)																
Explanation Line No.																
<b>Frequency</b>																
Year Most Recent Occurred		2003														
Year First Known Occurred																
<b>Regularity</b>																
More Than 1 Year	✓															
Less Than 1 Year																
Only During Agnes																
<b>Duration (If Applicable)</b>																
Less Than 1 Day																
1 Day + (Enter Days)		2														
<b>Property Damage</b>																
Loss of Life/Vital Services																
Private																
More Than One Owner																
Types of Properties																
Number of Properties																
Public (List Types)																
Explanation Line No.																
<b>Solutions</b>																
Suggested																
Explanation Line No.																
Formally Proposed																
Explanation Line No.																

\* Include Map ID No. if found on any other form listing proposed facilities.

- EXPLANATION LINE(S)
- 1) Acid Mine Drainage
  - 2)
  - 3)
  - 4)
  - 5)
  - 6)
  - 7)
  - 8)







FORM D - PROPOSED FLOOD CONTROL PROJECT

SHEET 1 OF 1

WATERSHED		FORM COMPLETED BY		TYPICAL TYPES OF FLOOD CONTROL PROJECTS			
Name: <u>STONYCREEK</u>	Name: <u>J. BIANCOTTI</u>	Channel Excavation / Widening	Levee	Dams			
Municipality: <u>SOMERSET TONWHSIP</u>	Telephone: <u>814-445-4675</u>	Channel Realignment	Gabions	Floodwall			
County: <u>SOMERSET COUNTY</u>	Date: <u>6/30/05</u>	Rock Riprap	Pipe Channel	Concrete Lining			

For County Use:

Map ID No.	Type of Flood Control Project	Study Phase Begun			Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Flood		Map ID No. Form A*	Owner Name, Address, and Phone
		YES		NO				Frequency Yrs.	Discharge C.F.S.		
		Prelim.	Final								
D-	NONE- DOES NOT APPLY										
D-											
D-											
D-											
D-											
D-											
D-											

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.



FORM F - PROPOSED STORM WATER CONTROL FACILITIES

SHEET 1 OF 1

<b>WATERSHED</b>		<b>FORM COMPLETED BY</b>		<b>DEFINITION</b>	
Name:	STONYCREEK	Name:	J. BIANCOTTI	Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.	
Municipality:	SOMERSET TOWNSHIP	Telephone:	814-445-4675		
County:	SOMERSET CO.	Date:	8-12/05		

For County Use:

Map ID No.	Type of Storm Water Control Facility	Proposed Constr. Dates		Map No. Form A*	Contact Person Name, Address and Phone	Comments
		Start	End			
F-	NONE- DOES NOT APPLY					
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

TYPICAL TYPES OF STORM WATER CONTROL FACILITIES

- |                             |  |
|-----------------------------|--|
| Detention / Retention Basin | Roof-Top Storage   |
| Natural Pond or Wetland     | Semi-Pervious Paving   |
| Parking Lot Pondling        | Infiltration Device (Seepage / Recharge Basin or Underground Tank) |



FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

WATERSHED  
 Name: STONYCREEK  
 Municipality: SOMERSET TWP  
 County: SOMERSET CO.

FORM COMPLETED BY  
 Name: J. BIANCOTTI  
 Telephone: 814-445-4675  
 Date: 8/12/05

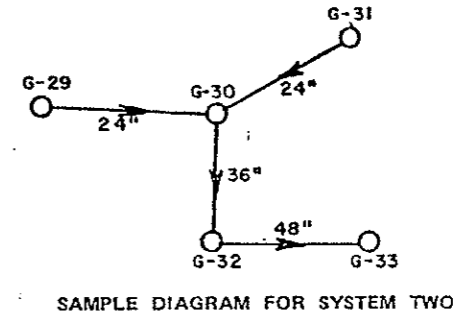
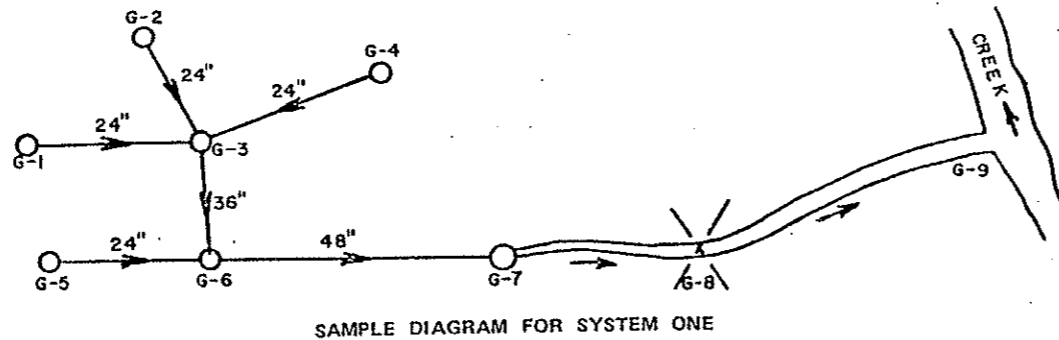
INSTRUCTIONS  
 Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *				Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale		Depth					
					D	TW	B	Depth					
G-	G-	NONE-	DOES	BOT	APPLY								
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												

\* See measurement key on reverse side.



Measurement Key	
D	= Diameter
TW	= Top Width
B	= Bottom Width



SAMPLE FORM (System One Only)

WATERBED		FORM COMPLETED BY		DATE		PROJECT		SHEET		OF	
Name		Name		Month	Year	Sheet	Count	Project	Number	of	Total
Municipality		Telephone									
County		Date									
Line No.	Station	Start	End	Depth	Material	Year	Inspected	Ground	Final	Ownership and Maintenance Responsibility	
1	0.1	0.2	0.3	24"	CMF	1978	Yes	John Doe 123-4567	Borough of ABC		
2	0.2	0.3	0.4	24"	CMF	1978	Yes	John Doe 123-4567	Borough of ABC		
3	0.3	0.4	0.5	24"	CMF	1978	Yes	John Doe 123-4567	Borough of ABC		
4	0.4	0.5	0.6	24"	CMF	1978	Yes	John Doe 123-4567	Borough of ABC		
5	0.5	0.6	0.7	24"	CMF	1978	Yes	John Doe 123-4567	Borough of ABC		
6	0.6	0.7	0.8	48"	CMF	1978	Yes	John Doe 123-4567	Borough of ABC		
7	0.7	0.8	0.9	36"	Concrete	1980	Yes	John Doe 123-4567	Borough of ABC		
8	0.8	0.9	1.0	36"	Concrete	1980	Yes	John Doe 123-4567	Borough of ABC		
9	0.9	1.0	1.1	36"	Concrete	1980	Yes	John Doe 123-4567	Borough of ABC		
10	1.0	1.1	1.2	36"	Concrete	1980	Yes	John Doe 123-4567	Borough of ABC		
11	1.1	1.2	1.3	36"	Concrete	1980	Yes	John Doe 123-4567	Borough of ABC		
12	1.2	1.3	1.4	36"	Concrete	1980	Yes	John Doe 123-4567	Borough of ABC		



Outline known areas where construction exists but construction data is unavailable.



FORM H - PROPOSED STORM WATER COLLECTION SYSTEMS

WATERSHED  
 Name: STONYCREEK  
 Municipality: SOMERSET TWP  
 County: SOMERSET CO.

FORM COMPLETED BY  
 Name: J. BIANCOTTI  
 Telephone: 814-445-4675  
 Date: 8/12/05

INSTRUCTIONS  
 On the map for proposed storm water collection systems, diagram each proposed system. Indicate a map point to show changes in system elements, pipe size, pipe direction and connections to existing systems. For proposed additions to existing systems, diagram only the additions and their connection point into the existing system. Complete a separate form for each proposed, new system and one for each existing system having one or more proposed additions. Identify the points within a system consecutively (ex. H-1, H-2, H-3). Start the first point in each additional system 20 numbers higher (if H-3 ends one system, begin the next with H-23 ). Be sure to show the point where proposed additions connect into existing systems, using the map point number from the existing system form and map. See Sample Diagrams and Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *				Material	Map I.D. Nos.** Form A	Proposed Const. Dates		Design Data Avail.	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Open Channel / Swale		Start			End				
						TW	B	Depth							
H-	H-	NONE-	DOES NOT	APPLY											
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														

\* See measurement key on reverse side. \*\* Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.



FORM I - PRESENT & PROJECTED DEVELOPMENT IN THE FLOOD HAZARD AREA

SHEET 1 OF 1

WATERSHED	FORM COMPLETED BY	DEFINITION
Name: <u>STONYCREEK</u>	Name: <u>J. BIANCOTTI</u>	FLOOD HAZARD AREA: A NORMALLY DRY LAND AREA THAT HAS BEEN OR IS SUSCEPTABLE TO BEING INUNDATED BY THE 100-YEAR FLOOD.
Municipality: <u>SOMERSET TWP</u>	Telephone: <u>814-445-4675</u>	
County: <u>SOMERSET CO.</u>	Date: <u>8/19/05</u>	

For County Use:

Map ID No.	TYPE OF DEVELOPMENT	Year Built	Contact Person Name, Address and Phone	Comments
1-	NONE			
1-				
1-				
1-				
1-				
1-				
1-				
1-				
1-				

**RECEIVED**

AUG 22 2005



WATERSHED  
 Name: STONYCREEK  
 Municipality: SOMERSET TOWNSHIP  
 County: SOMERSET COUNTY

FORM COMPLETED BY  
 Name: J. BIANCOTTI  
 Telephone: 814-445-4675  
 Date: 8/19/05

SITE	J-1	J-2	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-
<b>Types of Water Quality Problems</b>												
High Community Tolerance												
High Temperature												
High Turbidity												
Hydrocarbon Pollution												
Low Community Diversity												
Low Dissolved Oxygen		✓										
Low pH												
Nutrient Enrichment												
Poor Habitat												
Other/Explanation Line No.	✓											
<b>Potential Cause(s)</b>												
Agriculture												
Construction Site												
Erosion												
Lake Discharge												
STP Outfall												
Other/Explanation Line No.	✓	✓										
<b>Frequency</b>												
Year Most Recent Occurrence	<i>ongoing</i>	<i>on-going</i>										
Year First Known Occurrence												
<b>Source of Information</b>												
BWA Streamwatch												
County Water Quality Study												
Driveby $\longrightarrow$	✓	✓										
UCCD Complaint Investigation												
Other/Explanation Line No.												

EXPLANATION LINES

1 ACID MINE DRAINAGE FROM OLD COAL MINES  
 2 VILLAGES OF HUSBAND AND ZIMMERMAN; PROBABLE MALFUNCTIONING OR NON-EXISTENT ON-LOT SEWAGE DISPOSAL SYSTEMS. AREA IDENTIFIED IN MOST RECENT ACT 537 PLAN REVISION; TWP CURRENTLY SEEKING FUNDING FOR INSTALLATION OF COMMUNITY SEWAGE DISPOSAL SYSTEM.

REC

JUN 16 2003

FORM A - STORM WATER PROBLEM AREAS

SHEET 1 OF 1

WATERSHED		FORM COMPLETED BY					Before Filling Out Form, See Instructions On Back									
Name: <u>Conservation District</u>		Name: <u>Sam Donik</u>					For County Use:									
Municipality: <u>Quemahoning Twp</u>		Telephone: <u>814 893-5025</u>														
County: <u>Somerset</u>		Date: <u>12 June 03</u>														
MAP NO. *	A-1	A-2	A-3	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-
<b>Types of Storm Water Problems</b>																
Flooding	✓	✓	✓													
Accelerated Erosion																
Sedimentation																
Landslide																
Groundwater																
Water Pollution																
Other (Explain)																
Explanation Line No.																
<b>Cause (s)</b>																
Storm Water Volume	✓	✓	✓													
Storm Water Velocity																
Storm Water Direction																
Water Obstruction																
Other (Explain)																
Explanation Line No.																
<b>Frequency</b>																
Year Most Recent Occurred																
Year First Known Occurred																
<b>Regularity</b>																
More Than 1 Year																
Less Than 1 Year																
Only During Agnes																
<b>Duration (If Applicable)</b>																
Less Than 1 Day																
1 Day + (Enter Days)																
<b>Property Damage</b>																
Loss of Life/Vital Services																
Private	✓	✓														
More Than One Owner	✓	✓														
Types of Properties																
Number of Properties																
Public (List Types)																
Explanation Line No.	<u>Road</u>	<u>Road</u>	<u>Road</u>													
<b>Solutions</b>																
Suggested																
Explanation Line No.																
Formally Proposed																
Explanation Line No.																

\* Include Map ID No. if found on any other form listing proposed facilities.

- EXPLANATION LINE(S)
- 1) creek needs Dredged
  - 2) unknown solution
  - 3) " "
  - 4)
  - 5)
  - 6)
  - 7)
  - 8)



**RECEIVED**

October 12, 2005

OCT 12 2005

Cambria County Conservation District  
401 Candlelight Drive, Suite 221  
Ebensburg, PA 15931

CAMBRIA COUNTY  
CONSERVATION DISTRICT

ATTN: Robb Piper

**STONYCREEK ACT 167 PLAN  
STORMWATER MANAGEMENT**

Dear Robb,

On behalf of Paint Township, we have completed the forms for the Stormwater Management Plan received at the Phase II Meeting on June 22, 2005. The completed forms are enclosed with this memo as well as a map of the areas contributing to the Stonycreek Watershed.

If you have any questions or concerns, please contact us at (814) 445-6551.

THE EADS GROUP, INC. (Somerset)



By: Jeffrey S. Haynal, E.I.T.

cc: File # 6036-G-01, w/ enc.  
Paint Township, w/ enc.  
Pat Mulcahy  
Central File

Somserv/Jeff H/Paint Twp/Act 167 Cover Letter





N/A

WATERSHED			FORM COMPLETED BY				Before Filling Out Form, See Instructions On Back					
Name: <u>STONY CREEK</u>			Name: <u>FAT MULCAHY</u>				For County Use:					
Municipality: <u>PAINT TOWNSHIP</u>			Telephone: <u>814-445-6551</u>									
County: <u>SOMERSET</u>			Date: <u>9/23/05</u>									

MAP NO. *	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-
<b>Types of Storm Water Problems</b>												
Flooding												
Accelerated Erosion												
Sedimentation												
Landslide												
Groundwater												
Water Pollution												
Other (Explain)												
Explanation Line No. (On Back)												
<b>Cause (s)</b>												
Storm Water Volume												
Storm Water Velocity												
Storm Water Direction												
Water Obstruction												
Other (Explain)												
Explanation Line No. (On Back)												
<b>Frequency</b>												
Year Most Recent Occurred												
Year First Known Occurred												
<b>Regularity</b>												
More Than 1 Year												
Less Than 1 Year												
Only During Agnes												
<b>Duration (If Applicable)</b>												
Less Than 1 Day												
1 Day + (Enter Days)												
<b>Property Damage</b>												
Loss of Life/Vital Services												
Private												
More Than One Owner												
Types of Properties												
Number of Properties												
Public (List Types)												
Explanation Line No. (On Back)												
<b>Solutions</b>												
Suggested												
Explanation Line No. (On Back)												
Formally Proposed												
Explanation Line No. (On Back)												

\* Include Map ID No. if found on any other form listing proposed facilities.





N/A

FORM D - PROPOSED FLOOD CONTROL PROJECT

SHEET 3 OF 9

WATERSHED		FORM COMPLETED BY		TYPICAL TYPES OF FLOOD CONTROL PROJECTS					
Name: <u>STONYCREEK</u>		Name: <u>PAT MULCAHY</u>		Channel Excavation / Widening		Levee		Dams	
Municipality: <u>PAINT TOWNSHIP</u>		Telephone: <u>814-445-6551</u>		Channel Realignment		Gabions		Floodwall	
County: <u>SOMERSET</u>		Date: <u>9/23/05</u>		Rock Riprap		Pipe Channel		Concrete Lining	

For County Use:

Map ID No.	Type of Flood Control Project	Study Phase Begun			Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Flood		Map ID No. Form A*	Owner Name, Address, and Phone
		YES		NO				Frequency Yrs.	Discharge C.F.S.		
		Prelim.	Final								
D-											
D-											
D-											
D-											
D-											
D-											
D-											

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.





N/A

FORM F - PROPOSED STORM WATER CONTROL FACILITIES

SHEET 5 OF 9

<b>WATERSHED</b>		<b>FORM COMPLETED BY</b>		<b>DEFINITION</b> Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.
Name: <u>STONY CREEK</u>		Name: <u>PAUL MURPHY</u>		
Municipality: <u>PINE TOWNSHIP</u>		Telephone: <u>814-445-6551</u>		
County: <u>SUMMERSET</u>		Date: <u>9/22/05</u>		

For County Use:

Map ID No.	Type of Storm Water Control Facility	Proposed Constr. Dates		Map No. Form A*	Contact Person Name, Address and Phone	Comments
		Start	End			
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

TYPICAL TYPES OF STORM WATER CONTROL FACILITIES

- |                             |  |
|-----------------------------|--|
| Detention / Retention Basin | Roof-Top Storage   |
| Natural Pond or Wetland     | Semi-Pervious Paving   |
| Parking Lot Pondling        | Infiltration Device (Seepage / Recharge Basin or Underground Tank) |



FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

WATERSHED  
Name: Stony Creek  
Municipality: PHILIP TOWNSHIP  
County: SOMERSET

FORM COMPLETED BY  
Name: Pat Muccamy  
Telephone: 814-445-6551  
Date: 7/22/05

INSTRUCTIONS  
Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *			Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale						
						TW	B	Depth				
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											

\* See measurement key on reverse side.



N/A

FORM H - PROPOSED STORM WATER COLLECTION SYSTEMS

SHEET 7 OF 9

WATERSHED  
 Name: SUNNYCREEK  
 Municipality: PAINT TOWNSHIP  
 County: SOMERSET

FORM COMPLETED BY  
 Name: PAT MULCAHY  
 Telephone: 814-445-6551  
 Date: 9/23/05

INSTRUCTIONS  
 On the map for proposed storm water collection systems, diagram each proposed system. Indicate a map point to show changes in system elements, pipe size, pipe direction and connections to existing systems. For proposed additions to existing systems, diagram only the additions and their connection point into the existing system. Complete a separate form for each proposed new system and one for each existing system having one or more proposed additions. Identify the points within a system consecutively (ex. H-1, H-2, H-3). Start the first point in each additional system 20 numbers higher (if H-3 ends one system, begin the next with H-23). Be sure to show the point where proposed additions connect into existing systems, using the map point number from the existing system form and map. See Sample Diagrams and Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *				Material	Map I.D. Nos.** Form A	Proposed Const. Dates		Design Data Avail.	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Open Channel / Swale		Depth			Start	End			
						TW	B								
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														

\* See measurement key on reverse side. \*\* Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.







<b>WATERSHED</b> Name: <u>SPRANycREEK</u> Municipality: <u>PAINT TOWNSHIP</u> County: <u>SOMERSET</u>	<b>FORM COMPLETED BY</b> Name: <u>PRY MULCAHY</u> Telephone: <u>814-445-6551</u> Date: <u>9/23/05</u>
--	--

SITE	J- 1	J- 2	J- 3	J-	J-	J-	J-	J-	J-	J-	J-
<b>Types of Water Quality Problems</b>											
High Community Tolerance											
High Temperature											
High Turbidity											
Hydrocarbon Pollution											
Low Community Diversity	← N/A →										
Low Dissolved Oxygen											
Low pH											
Nutrient Enrichment											
Poor Habitat											
Other/Explanation Line No.											
<b>Potential Cause(s)</b>											
Agriculture											
Construction Site											
Erosion	← N/A →										
Lake Discharge											
STP Outfall											
Other/Explanation Line No.											
<b>Frequency</b>											
Year Most Recent Occurrence	← N/A →										
Year First Known Occurrence											
<b>Source of Information</b>											
BWA Streamwatch											
County Water Quality Study											
Driveby											
UCCD Complaint Investigation	← N/A →										
Other/Explanation Line No.											

**EXPLANATION LINES**

- 1 THESE LOCATIONS ARE ON-GOING STRIP MINE SITES.
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

October 12, 2005

Cambria County Conservation District  
401 Candlelight Drive, Suite 221  
Ebensburg, PA 15931

ATTN: Robb Piper

**STONYCREEK ACT 167 PLAN  
STORMWATER MANAGEMENT**

Dear Robb,

On behalf of Paint Borough, we have completed the forms for the Stormwater Management Plan received at the Phase II Meeting on June 22, 2005. The completed forms are enclosed with this memo as well as a map of the areas contributing to the Stonycreek Watershed.

If you have any questions or concerns, please contact us at (814) 445-6551.

THE EADS GROUP, INC. (Somerset)



By: Jeffrey S. Haynal, E.I.T.

cc: File # 6035-S-02, w/ enc.  
Paint Borough, w/ enc.  
Pat Mulcahy  
Central File

Somserv/Jeff H/Paint BoroAct 167 Cover Letter

RECEIVED

OCT 12 2005

CAMBRIA COUNTY  
CONSERVATION DISTRICT



<b>WATERSHED</b>		<b>FORM COMPLETED BY</b>				<b>Before Filling Out Form, See Instructions On Back</b>					
Name: <u>STONYCREEK</u>		Name: <u>DENNIS BERKEY</u>				For County Use:					
Municipality: <u>PAINT BOROUGH</u>		Telephone: <u>814-467-6904</u>									
County: <u>SOMERSET</u>		Date: <u>8-17-2005</u>									

MAP NO. *	A-1	A-2	A-3	A-4	A-5	A-6	A-	A-	A-	A-	A-	A-
<b>Types of Storm Water Problems</b>												
Flooding	✓	✓	✓	✓	✓	✓						
Accelerated Erosion												
Sedimentation	✓				✓	✓						
Landslide												
Groundwater												
Water Pollution												
Other (Explain)												
Explanation Line No. (On Back)												
<b>Cause (s)</b>												
Storm Water Volume	✓	✓	✓	✓	✓	✓						
Storm Water Velocity												
Storm Water Direction												
Water Obstruction												
Other (Explain)												
Explanation Line No. (On Back)												
<b>Frequency</b>												
Year Most Recent Occurred	2004	2004	2004	2004	2005	2005						
Year First Known Occurred	1977	1977	1977	1977	1977	1977						
<b>Regularity</b>												
More Than 1 Year	✓	✓	✓	✓	✓	✓						
Less Than 1 Year												
Only During Agnes												
<b>Duration (If Applicable)</b>												
Less Than 1 Day												
1 Day + (Enter Days)	1	1	1	1	1	1						
<b>Property Damage</b>												
Loss of Life/Vital Services												
Private	✓	✓	✓	✓	✓	✓						
More Than One Owner	✓	✓	✓	✓	✓	✓						
Types of Properties												
Number of Properties												
Public (List Types)												
Explanation Line No. (On Back)												
<b>Solutions</b>												
Suggested												
Explanation Line No. (On Back)												
Formally Proposed												
Explanation Line No. (On Back)												

\* Include Map ID No. if found on any other form listing proposed facilities.



FORM C - EXISTING FLOOD CONTROL PROJECT

SHEET 2 OF 16

WATERSHED		FORM COMPLETED BY		TYPICAL TYPES OF FLOOD CONTROL PROJECTS			
Name: <u>STONYCREEK</u>		Name: <u>DENNIS BERKEY</u>		Channel Excavation / Widening		Levee	Dams
Municipality: <u>PAINT BOROUGH</u>		Telephone: <u>814-467-6984</u>		Channel Realignment		Gabions	Floodwall
County: <u>SUMMERSET</u>		Date: <u>8-17-2005</u>		Rock Riprap		Pipe Channel	Concrete Lining

For County Use:

Map ID No.	Type of Flood Control Project	Year Constr Built	Expected Life Yrs.	Design Flood		Owner Name, Address, and Phone
				Frequency Yrs.	Discharge C.F.S.	
C-1	• CHANNEL REALIGNMENT • PIPE CHANNEL	1979	60	50	75	
C-2	• CHANNEL REALIGNMENT	1960	100	50	75	
C-3	• PIPE CHANNEL	1979	60	50	75	
C-4	• PIPE CHANNEL	1995	50	100	123	
C-5	• PIPE CHANNEL	1985	60	50	38	
C-						
C-						



FORM D - PROPOSED FLOOD CONTROL PROJECT

SHEET 3 OF 16

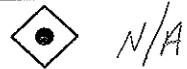
WATERSHED		FORM COMPLETED BY		TYPICAL TYPES OF FLOOD CONTROL PROJECTS					
Name: <u>STONYCREEK</u>		Name: <u>DENNIS BERKEY</u>		Channel Excavation / Widening		Levee		Dams	
Municipality: <u>PAINT BOROUGH</u>		Telephone: <u>814-467-6904</u>		Channel Realignment		Gabions		Floodwall	
County: <u>SOMERSET</u>		Date: <u>8-17-2005</u>		Rock Riprap		Pipe Channel		Concrete Lining	

For County Use:

Map ID No.	Type of Flood Control Project	Study Phase Begun			Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Flood		Map ID No. Form A*	Owner Name, Address, and Phone
		YES		NO				Frequency Yrs.	Discharge C.F.S.		
		Prelim.	Final								
D-1	PIPE CHANNEL			X	2006	2006	100	50	75	A-4	UNKNOWN AT THIS TIME
D-2	PIPE CHANNEL			X	2006	2006	100	50	12	A-5	PAINT BOROUGH PROPERTY CSX RAILROAD
D-3	PIPE CHANNEL			X	2006	2006	100	55	12		PAINT BOROUGH FERRALL GAS COMPANY
D-											
D-											
D-											
D-											

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.





FORM F - PROPOSED STORM WATER CONTROL FACILITIES

WATERSHED Name: <u>STONYCREEK</u> Municipality: <u>PAINT BOROUGH</u> County: <u>SOMERSET</u>	FORM COMPLETED BY Name: _____	<b>DEFINITION</b> Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.
	Telephone: _____	
	Date: _____	

For County Use:

Map ID No.	Type of Storm Water Control Facility	Proposed Constr. Dates		Map No. Form A*	Contact Person Name, Address and Phone	Comments
		Start	End			
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

TYPICAL TYPES OF STORM WATER CONTROL FACILITIES

Detention / Retention Basin	Roof-Top Storage
Natural Pond or Wetland	Semi-Pervious Paving
Parking Lot Ponding	Infiltration Device (Seepage / Recharge Basin or Underground Tank)



System 1

FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

SHEET 6 OF 16

WATERSHED  
 Name: STUNNCRREEK  
 Municipality: PAINT BOROUGH  
 County: SOMERSET

FORM COMPLETED BY  
 Name: DENNIS BERKEY  
 Telephone: 814-467-6904  
 Date: 8-17-2005

INSTRUCTIONS  
 Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *			Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility	
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale							
						TW	B	Depth					
G-34	G-32	✓			12"				CPP	1997		DENNIS BERKEY 814-467-6904	PAINT BOROUGH
G-32	G-V	✓			12"				CPP				
G-35	G-V	✓			12"				CPP				
G-V	G-U	✓			12"				CPP				
G-31	G-U	✓			12"				CPP				
G-30	G-U-T	✓			12"				CPP				
G-U	G-T	✓			12"				CPP				
G-29	G-T	✓			12"				CPP				
G-T	G-S	✓			12"				CPP				
G-28	G-T-S	✓			12"				CPP				
G-40	G-S	✓			12"				CPP				
G-25	G-40-S	✓			12"				CPP				
G-26	G-S	✓			12"				CPP				
G-S	G-Q	✓			18"				CPP				
G-33	G-S-Q	✓			12"				CPP				

\* See measurement key on reverse side.





System 1 - CONTINUED

## FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

SHEET 7 OF 16

WATERSHED		FORM COMPLETED BY		INSTRUCTIONS			
Name: <u>STONY CREEK</u>		Name: <u>DENNIS BERKEY</u>		Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.			
Municipality: <u>PAINT BOROUGH</u>		Telephone: <u>814-467-6904</u>					
County: <u>SOMERSET</u>		Date: <u>8-17-2005</u>					

Map I.D. No.		System's Elements (x)			Measurements *				Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale							
						TW	B	Depth					
G-0	G-P	✓			18"				CPP	1997		DENNIS BERKEY 814-467-6904	PAINT BOROUGH
G-23	G-Q-P	✓			12"				CPP				
G-24	G-Q-P	✓			12"				CPP				
G-P	G-O	✓			18"				CPP				
G-22	G-D	✓			12"				CPP				
G-0	G-N	✓			18"				CPP				
G-21	G-O-N	✓			12"				CPP				
G-N	G-M	✓			18"				CPP				
G-18	G-N-M	✓			12"				CPP				
G-19	G-N-M	✓			12"				CPP				
G-M	G-L	✓			18"				CPP				
G-17	G-m-l	✓			12"				CPP				
G-16	G-M-L	✓			12"				CPP				
G-15	G-M-L	✓			12"				CPP				
G-L	G-K	✓			24"				RCCP				

\* See measurement key on reverse side.



System 1 - CONTINUED

FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

SHEET 8 OF 16

<b>WATERSHED</b>	<b>FORM COMPLETED BY</b>	<b>INSTRUCTIONS</b> Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.
Name: <u>STUNKREEK</u>	Name: <u>DENNIS BERKEY</u>	
Municipality: <u>PAINT BOROUGH</u>	Telephone: <u>814-467-6904</u>	
County: <u>SOMERSET</u>	Date: <u>8-17-2005</u>	

Map I.D. No.		System's Elements (x)			Measurements *				Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
					Pipe	Channel / Swale							
From	To	Pipe	Open Channel	Swale	D	TW	B	Depth					
G- K	G- G	✓			24"				RCCP	1997		DENNIS BERKEY 814-467-6904	PAINT BOROUGH
G- 41	G- K-G	✓			12"				CPP				
G- 10	G- K-G	✓			12"				CPP				
G- 13	G- J	✓			12"				CPP				
G- 14	G- J	✓			12"				CPP				
G- J	G- I	✓			12"				CPP				
G- 12	G- I	✓			12"				CPP				
G- I	G- H	✓			12"				CPP				
G- H	G- G	✓			15"				CPP				
G- 11	G- H-G	✓			12"				CPP				
G- 9	G- H-G	✓			12"				CPP				
G- G	G- B	✓			24"				RCCP				
G- 7	G- F	✓			12"				CPP				
G- 8	G- F	✓			12"				CPP	▽			
G- F	G- E	✓			12"				CPP	▽			

\* See measurement key on reverse side.



System 1 - CONTINUED

FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

SHEET 9 OF 16

WATERSHED  
 Name: STUNY CREEK  
 Municipality: PAINT BOROUGH  
 County: SOMERSET

FORM COMPLETED BY  
 Name: DENNIS BERKEY  
 Telephone: 814-467-6904  
 Date: 8-17-2005

INSTRUCTIONS  
 Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1, G-2, G-3). Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *				Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale TW	B	Depth					
G-5	G-E	✓			12"				CPP	1997		DENNIS BERKEY 814-467-6904	PAINT BOROUGH
G-E	G-D	✓			15"				CPP				
G-3	G-D	✓			12"				CPP				
G-4	G-D	✓			12"				CPP				
G-D	G-C	✓			15"				CPP				
G-F	G-C	✓			12"				CPP				
G-42	G-C	✓			12"				CPP				
G-C	G-B	✓			24"				RCCP				
G-B	G-END	✓			36"				RCCP				
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												

\* See measurement key on reverse side.



SYSTEM 2

FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

SHEET 10 OF 16

WATERSHED  
 Name: SPUNKY CREEK  
 Municipality: PAINT BOROUGH  
 County: SOMERSET

FORM COMPLETED BY  
 Name: DENNIS BERKEY  
 Telephone: 814-467-6904  
 Date: 8-17-2005

INSTRUCTIONS  
 Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *				Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale							
						TW	B	Depth					
G-62	G-63	✓			8"				CPP	1997		DENNIS BERKEY 814-467-6904	PAINT BOROUGH
G-63	G-64	✓			8"				CPP				
G-64	G-65	✓			8"				CPP				
G-65	G-66	✓			8"				CPP				
G-66	G-C-5	✓			8"				CPP				
G-68	G-67	✓			8"				CPP	▽			
G-67	G-C-5	✓			8"				CPP	▽			
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												

\* See measurement key on reverse side.



System 3

FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

SHEET 11 OF 16

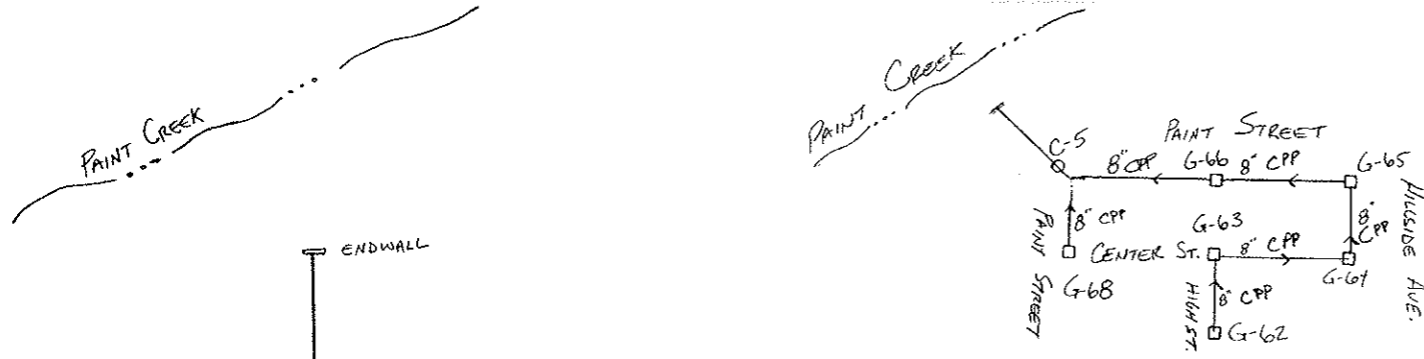
WATERSHED  
 Name: SPUNKY CREEK  
 Municipality: PAINT BOROUGH  
 County: SOMERSET

FORM COMPLETED BY  
 Name: DENNIS BERKEY  
 Telephone: 814-467-6904  
 Date: 8-17-2005

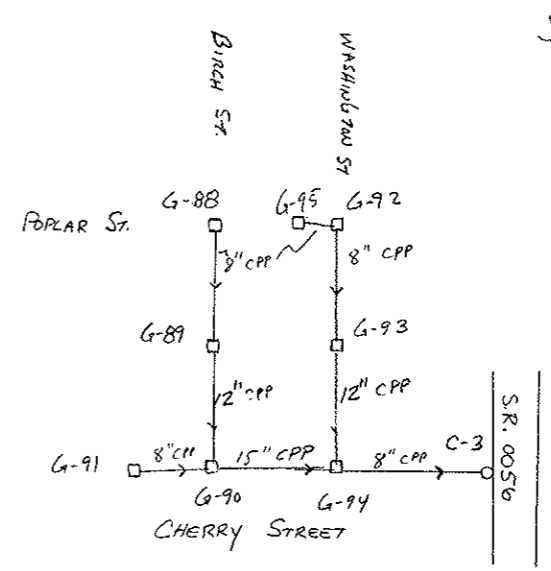
INSTRUCTIONS  
 Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *				Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale		Depth					
						TW	B						
G-88	G-89	✓			8"				CPP	1997		DENNIS BERKEY 814-467-6904	PAINT BOROUGH
G-89	G-96	✓			12"				CPP	1997			
G-91	G-90	✓			8"				CPP	1997			
G-96	G-94	✓			15"				CPP	1997			
G-95	G-92	✓			8"				CPP	1997			
G-92	G-93	✓			8"				CPP	1997			
G-93	G-94	✓			12"				CPP	1997			
G-94	G-C-3	✓			15"				CPP	1997			
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												

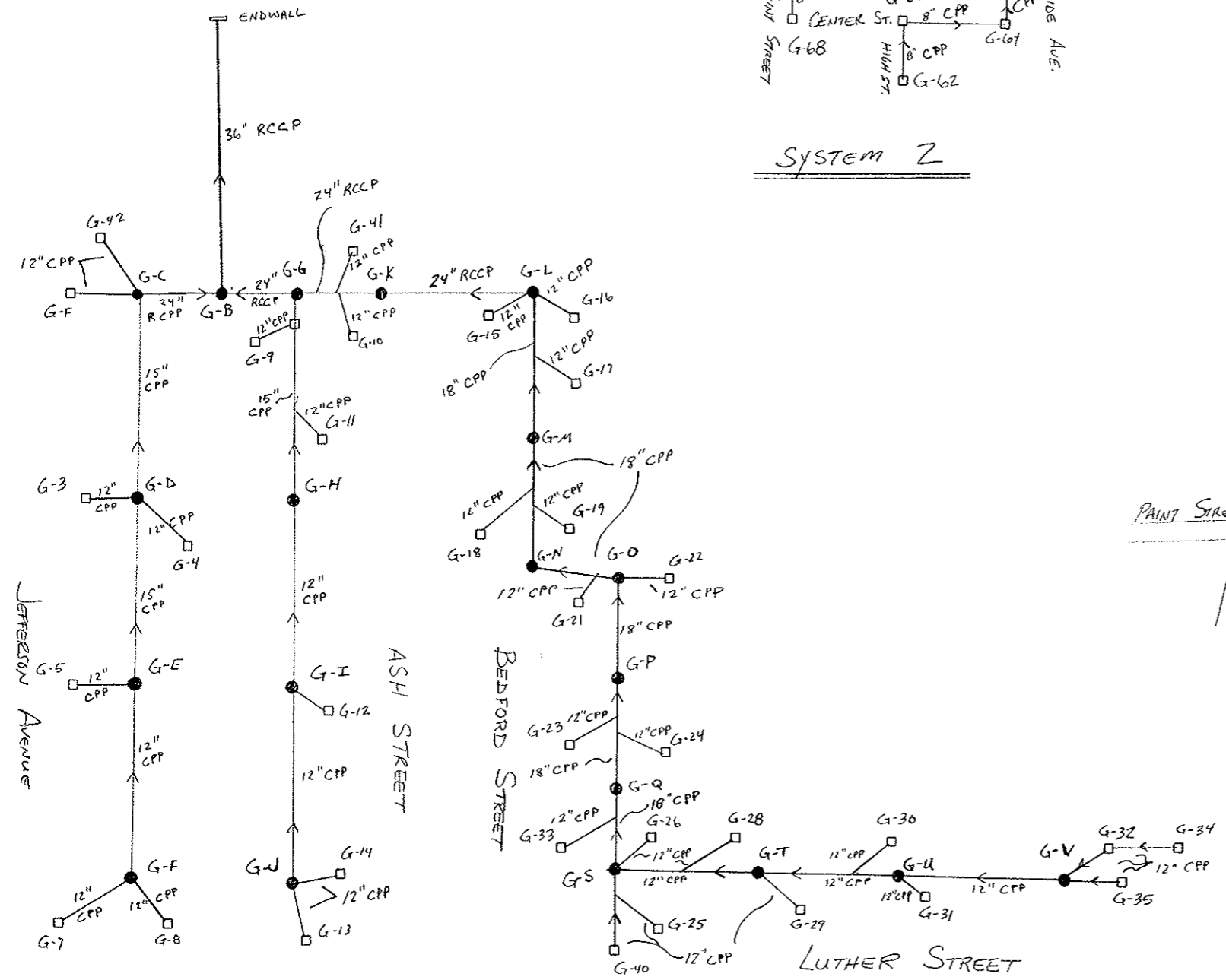
\* See measurement key on reverse side.



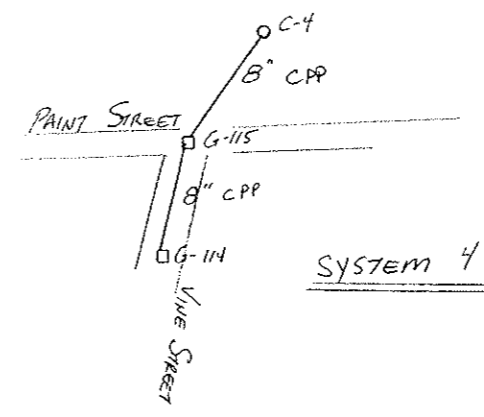
SYSTEM 2



SYSTEM 3



SYSTEM 1



SYSTEM 4



System 4

FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

SHEET 12 OF 16

<b>WATERSHED</b>		<b>FORM COMPLETED BY</b>		<b>INSTRUCTIONS</b> Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.
Name: <u>STAWYCREEK</u>		Name: <u>DENNIS BERKEY</u>		
Municipality: <u>PAINT BOROUGH</u>		Telephone: <u>814-467-6904</u>		
County: <u>SOMERSET</u>		Date: <u>8-17-2005</u>		

Map I.D. No.		System's Elements (x)			Measurements *				Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale							
						TW	B	Depth					
G-114	G-115	✓			8"				CPP	1999		DENNIS BERKEY 814-467-6904	PAINT BOROUGH
G-115	G-114	✓			8"				CPP	1999		↓	↓
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												

\* See measurement key on reverse side.



N/A

FORM H - PROPOSED STORM WATER COLLECTION SYSTEMS

WATERSHED  
 Name: STONYCREEK  
 Municipality: PAINT BOROUGH  
 County: SUMNERSET

FORM COMPLETED BY  
 Name: DENNIS BERKEY  
 Telephone: 814-467-6904  
 Date: 8-17-2005

INSTRUCTIONS  
 On the map for proposed storm water collection systems, diagram each proposed system. Indicate a map point to show changes in system elements, pipe size, pipe direction and connections to existing systems. For proposed additions to existing systems, diagram only the additions and their connection point into the existing system. Complete a separate form for each proposed new system and one for each existing system having one or more proposed additions. Identify the points within a system consecutively (ex. H-1, H-2, H-3). Start the first point in each additional system 20 numbers higher (if H-3 ends one system, begin the next with H-23). Be sure to show the point where proposed additions connect into existing systems, using the map point number from the existing system form and map. See Sample Diagrams and Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *				Material	Map I.D. Nos.** Form A	Proposed Const. Dates		Design Data Avail.	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Open Channel / Swale TW	B	Depth			Start	End			
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														

\* See measurement key on reverse side. \*\* Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.







N/A

WATERSHED

Name: STONY CREEK  
Municipality: PAINT BOROUGH  
County: SOMERSET

FORM COMPLETED BY

Name: DENNIS BERKEY  
Telephone: 814-467-6904  
Date: 8-17-2005

SITE	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-
<b>Types of Water Quality Problems</b>													
High Community Tolerance													
High Temperature													
High Turbidity													
Hydrocarbon Pollution													
Low Community Diversity													
Low Dissolved Oxygen													
Low pH													
Nutrient Enrichment													
Poor Habitat													
Other/Explanation Line No.													
<b>Potential Cause(s)</b>													
Agriculture													
Construction Site													
Erosion													
Lake Discharge													
STP Outfall													
Other/Explanation Line No.													
<b>Frequency</b>													
Year Most Recent Occurrence													
Year First Known Occurrence													
<b>Source of Information</b>													
BWA Streamwatch													
County Water Quality Study													
Driveby													
UCCD Complaint Investigation													
Other/Explanation Line No.													

EXPLANATION LINES

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10



<b>WATERSHED</b>	<b>FORM COMPLETED BY</b>	Before Filling Out Form, See Instructions On Back
Name:	Name: <i>Dana Sklar</i>	For County Use:
Municipality: <i>Dale Twp</i>	Telephone: <i>467-5751</i>	
County: <i>Somerset</i>	Date: <i>6-10-03</i>	

MAP NO. *	A-1	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-
<b>Types of Storm Water Problems</b>																
Flooding	✓															
Accelerated Erosion	✓															
Sedimentation	✓															
Landslide																
Groundwater	✓															
Water Pollution																
Other (Explain)																
Explanation Line No.																
<b>Cause (s)</b>																
Storm Water Volume	✓															
Storm Water Velocity																
Storm Water Direction																
Water Obstruction																
Other (Explain)																
Explanation Line No.																
<b>Frequency</b>																
Year Most Recent Occurred	<i>2003</i>															
Year First Known Occurred	<i>1950</i>															
<b>Regularity</b>																
More Than 1 Year	✓															
Less Than 1 Year																
Only During Agnes																
<b>Duration (If Applicable)</b>																
Less Than 1 Day																
1 Day + (Enter Days)	<i>1-5</i>	✓														
<b>Property Damage</b>																
Loss of Life/Vital Services																
Private	✓															
More Than One Owner																
Types of Properties																
Number of Properties	<i>1</i>															
Public (List Types)																
Explanation Line No.																
<b>Solutions</b>																
Suggested	✓															
Explanation Line No.	<i>1</i>															
Formally Proposed																
Explanation Line No.																

\* Include Map ID No. if found on any other form listing proposed facilities.

EXPLANATION LINE(S)

1) *Raise elevation of surrounding land - Clean Bridge at T777 + T774 - state (SG) (lot of sand built up)*

2)

3)

4)

5)

6)

7)

8)





**Paul C. Rizzo Associates, Inc.**  
ENGINEERS & CONSULTANTS

August 12, 2005

Project No. 00-2254.68

Mr. Robb Piper  
Cambria County Conservation District  
401 Candlelight Drive, Suite 221  
Ebensburg, PA 15931

**TRANSMITTAL  
STONYCREEK RIVER STORMWATER PLAN  
LOWER YODER TOWNSHIP, CAMBRIA COUNTY**

Dear Mr. Piper:

In accordance with your request for information, enclosed is the stormwater forms packet from Lower Yoder Township, Cambria County.

Sincerely yours,

***Paul C. Rizzo Associates, Inc.***

Mark W. Lazzari  
Watershed/Land Use Planner

MWL/RJF/ljr  
Enclosure

pc: Lower Yoder Township Supervisors

647 MAIN STREET • SUITE 200 • JOHNSTOWN, PA 15901  
L001-2254.068.00 PHONE (814) 536-6767 • FAX (814) 536-6770  
web address: [www.rizzoassoc.com](http://www.rizzoassoc.com) • email: [pcra.johnstown@rizzoassoc.com](mailto:pcra.johnstown@rizzoassoc.com)

PITTSBURGH, PA (CORP. HQ) COLUMBIA, SC COLUMBUS, OH WALDWICK, NJ  
BUENOS AIRES, ARGENTINA ST. PETERSBURG, RUSSIA PLZEN, CZECH REPUBLIC

REC-11-03

JUN 16 2003

FORM A - STORM WATER PROBLEM AREAS

SHEET 1 OF 1

<b>WATERSHED</b> Name: Municipality: <u>Lower Northrup</u> County: <u>Cambridge</u>	<b>FORM COMPLETED BY</b> Name: <u>Cary Shiffler</u> Telephone: <u>536-2500</u> Date: <u>6-11-03</u>						Before Filling Out Form, See Instructions On Back									
							For County Use:									

MAP NO. *	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-
<b>Types of Storm Water Problems</b>	<u>N/A</u>															
Flooding																
Accelerated Erosion																
Sedimentation																
Landslide																
Groundwater																
Water Pollution																
Other (Explain)																
Explanation Line No.																
<b>Cause (s)</b>																
Storm Water Volume																
Storm Water Velocity																
Storm Water Direction																
Water Obstruction																
Other (Explain)																
Explanation Line No.																
<b>Frequency</b>																
Year Most Recent Occurred																
Year First Known Occurred																
<b>Regularity</b>																
More Than 1 Year																
Less Than 1 Year																
Only During Agnes																
<b>Duration (If Applicable)</b>																
Less Than 1 Day																
1 Day + (Enter Days)																
<b>Property Damage</b>																
Loss of Life/Vital Services																
Private																
More Than One Owner																
Types of Properties																
Number of Properties																
Public (List Types)																
Explanation Line No.																
<b>Solutions</b>																
Suggested																
Explanation Line No.																
Formally Proposed																
Explanation Line No.																

\* Include Map ID No. if found on any other form listing proposed facilities.

- EXPLANATION LINE(S)
- 1) \_\_\_\_\_
  - 2) \_\_\_\_\_
  - 3) \_\_\_\_\_
  - 4) \_\_\_\_\_
  - 5) \_\_\_\_\_
  - 6) \_\_\_\_\_
  - 7) \_\_\_\_\_
  - 8) \_\_\_\_\_





WATERSHED		FORM COMPLETED BY					Before Filling Out Form, See Instructions On Back				
Name: <u>Little Mill Creek</u>		Name: <u>Mark W. Lazzari</u>					For County Use:				
Municipality: <u>Lower Yoder Twp.</u>		Telephone: <u>814-536-6767</u>									
County: <u>Cambridge</u>		Date: _____									

MAP NO. *	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-
<b>Types of Storm Water Problems</b>												
Flooding												
Accelerated Erosion												
Sedimentation												
Landslide												
Groundwater												
Water Pollution												
Other (Explain)												
Explanation Line No. (On Back)												
<b>Cause (s)</b>												
Storm Water Volume												
Storm Water Velocity												
Storm Water Direction												
Water Obstruction												
Other (Explain)												
Explanation Line No. (On Back)												
<b>Frequency</b>												
Year Most Recent Occurred												
Year First Known Occurred												
<b>Regularity</b>												
More Than 1 Year												
Less Than 1 Year												
Only During Agnes												
<b>Duration (if Applicable)</b>												
Less Than 1 Day												
1 Day + (Enter Days)												
<b>Property Damage</b>												
Loss of Life/Vital Services												
Private												
More Than One Owner												
Types of Properties												
Number of Properties												
Public (List Types)												
Explanation Line No. (On Back)												
<b>Solutions</b>												
Suggested												
Explanation Line No. (On Back)												
Formally Proposed												
Explanation Line No. (On Back)												

\* Include Map ID No. if found on any other form listing proposed facilities.





FORM C - EXISTING FLOOD CONTROL PROJECT

SHEET 1 OF 1

WATERSHED		FORM COMPLETED BY		TYPICAL TYPES OF FLOOD CONTROL PROJECTS		
Name:	<u>Little Mill Creek</u>	Name:	<u>Mark W. Lazzari</u>	Channel Excavation / Widening	Levee	Dams
Municipality:	<u>Lower Yoder Twp.</u>	Telephone:	<u>814-534-6767</u>	Channel Realignment	Gabions	Floodwall
County:	<u>Cambria</u>	Date:		Rock Riprap	Pipe Channel	Concrete Lining

For County Use:

Map ID No.	Type of Flood Control Project	Year Constr Built	Expected Life Yrs.	Design Flood		Owner Name, Address, and Phone
				Frequency Yrs.	Discharge C.F.S.	
C-						
C-						
C-						
C-						
C-						
C-						
C-						

NA



FORM D - PROPOSED FLOOD CONTROL PROJECT

SHEET 1 OF 1

WATERSHED		FORM COMPLETED BY		TYPICAL TYPES OF FLOOD CONTROL PROJECTS			
Name:	<u>Little Mill Creek</u>	Name:	<u>Mark W. Lazzari</u>	Channel Excavation / Widening Channel Realignment Rock Riprap	Levee Gabions Pipe Channel	Dams Floodwall Concrete Lining	
Municipality:	<u>Lower Yoder Twp.</u>	Telephone:	<u>814-536-6767</u>				
County:	<u>Cambria</u>	Date:					

For County Use:

Map ID No.	Type of Flood Control Project	Study Phase Begun			Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Flood		Map ID No. Form A*	Owner Name, Address, and Phone
		YES		NO				Frequency Yrs.	Discharge C.F.S.		
		Prelim.	Final								
D-											
D-											
D-											
D-											
D-											
D-											
D-											

MANA

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.





FORM F - PROPOSED STORM WATER CONTROL FACILITIES

SHEET 1 OF 1

WATERSHED

FORM COMPLETED BY

DEFINITION

Name: Little Mill Creek  
Municipality: Lower Yoder Twp.  
County: Cambria

Name: Mark W. Lazzari  
Telephone: 814-536-6767  
Date:

Storm Water Control Facility  
A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.

For County Use:

Map ID No.	Type of Storm Water Control Facility	Proposed Constr. Dates		Map No. Form A*	Contact Person Name, Address and Phone	Comments
		Start	End			
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						

N A

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

TYPICAL TYPES OF STORM WATER CONTROL FACILITIES

- Detention / Retention Basin
- Natural Pond or Wetland
- Parking Lot Pondling
- Roof-Top Storage
- Semi-Pervious Paving
- Infiltration Device (Seepage / Recharge Basin or Underground Tank)



FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

WATERSHED  
Name: Little Mill Creek  
Municipality: Lower Yoder Twp  
County: Cambria

FORM COMPLETED BY  
Name: Mark W. Lazzari  
Telephone: 814-536-6767  
Date: \_\_\_\_\_

INSTRUCTIONS  
Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *			Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale						
						TW	B	Depth				
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											

N A

\* See measurement key on reverse side.







WATERSHED

Name: Little Mill Creek  
 Municipality: Lower Voder Twp  
 County: Cambria

FORM COMPLETED BY

Name: Mark W. Lazzari  
 Telephone: 814-536-6767  
 Date: \_\_\_\_\_

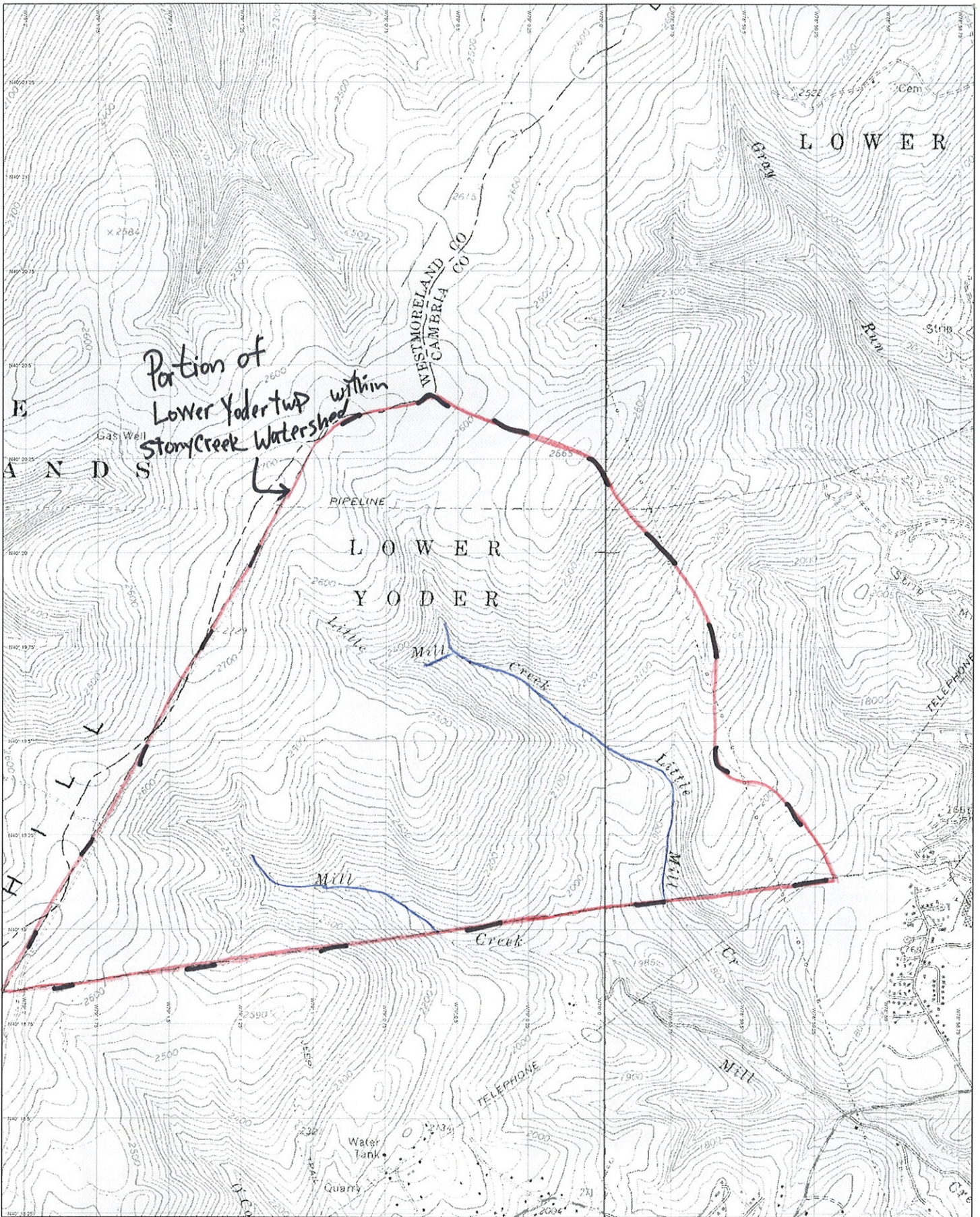
SITE	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-
<b>Types of Water Quality Problems</b>												
High Community Tolerance												
High Temperature												
High Turbidity												
Hydrocarbon Pollution												
Low Community Diversity												
Low Dissolved Oxygen												
Low pH												
Nutrient Enrichment												
Poor Habitat												
Other/Explanation Line No.												
<b>Potential Cause(s)</b>												
Agriculture												
Construction Site												
Erosion												
Lake Discharge												
STP Outfall												
Other/Explanation Line No.												
<b>Frequency</b>												
Year Most Recent Occurrence												
Year First Known Occurrence												
<b>Source of Information</b>												
BWA Streamwatch												
County Water Quality Study												
Driveby												
UCCD Complaint Investigation												
Other/Explanation Line No.												

N A

EXPLANATION LINES

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10







<b>WATERSHED</b> Name: <u>Lincoln Twp.</u> Municipality: <u>Lincoln</u> County: <u>Somerset</u>		<b>FORM COMPLETED BY</b> Name: <u>CRAIG EPPLEY</u> Telephone: <u>445-7939</u> Date: _____						Before Filling Out Form, See Instructions On Back  For County Use:					
<b>MAP NO. *</b>	A-1	A-2	A-3	A-4	A-5	A-6	A-	A-	A-	A-	A-	A-	
<b>Types of Storm Water Problems</b>													
Flooding	✓	✓	✓	✓	✓	✓							
Accelerated Erosion	✓	✓	✓	✓	✓	✓							
Sedimentation	✓	✓	✓	✓	✓	✓							
Landslide													
Groundwater	✓	✓	✓	✓	✓	✓							
Water Pollution	✓	✓	✓	✓	✓	✓							
Other (Explain)													
Explanation Line No. (On Back)													
<b>Cause (s)</b>													
Storm Water Volume	✓	✓	✓	✓	✓	✓							
Storm Water Velocity	✓	✓	✓	✓	✓	✓							
Storm Water Direction													
Water Obstruction	✓	✓	✓	✓	✓	✓							
Other (Explain)													
Explanation Line No. (On Back)													
<b>Frequency</b>													
Year Most Recent Occurred	<u>2005</u>	<u>2005</u>	<u>2004</u>	<u>2004</u>	<u>2004</u>	<u>2004</u>							
Year First Known Occurred	<u>1996</u>	<u>1996</u>	<u>1996</u>	<u>1996</u>	<u>1996</u>	<u>1996</u>							
<b>Regularity</b>													
More Than 1 Year	✓	✓	✓	✓		✓							
Less Than 1 Year													
Only During Agnes													
<b>Duration (if Applicable)</b>													
Less Than 1 Day			✓	✓		✓							
1 Day + (Enter Days)	<u>3</u>	<u>3</u>									<u>2</u>		
<b>Property Damage</b>													
Loss of Life/Vital Services	✓	✓				✓	✓						
Private													
More Than One Owner	<u>YES</u>	<u>YES</u>				✓	✓						
Types of Properties	<u>Homes</u>	<u>Homes</u>	<u>Home</u>			<u>Homes</u>	<u>Homes</u>						
Number of Properties	<u>2</u>	<u>2</u>	<u>1</u>			<u>many</u>	<u>5</u>						
Public (List Types)													
Explanation Line No. (On Back)	✓	✓											
<b>Solutions</b>													
Suggested													
Explanation Line No. (On Back)													
Formally Proposed													
Explanation Line No. (On Back)													

\* Include Map ID No. if found on any other form listing proposed facilities.

**RECEIVED**  
 AUG 01 2005  
 WINDHAM CO. Vt.  
 CONSERVATION DISTRICT

A-1 - WASHES TWO VITAL ROADS OUT AND  
EXPOSES A MAIN TO A GAS LINE OUT WHEN  
IT WASHES THE ROADS OUT - RIGGS RD & BLUEBIRD  
SPRINGS RD.

A-2 VEGETATION GROWTH CHANGES WATER DIRECTIONS  
A-2 WASHES MAIN ROAD OUT FOR ABOUT 1/4 OF  
A MILE. ALWAYS FLOODS OUT THE 2 HOMES  
BASEMENTS AND WASHES ROAD OUT. SHAULI'S RD.

A-4 TOWNSHIP BRIDGES





**FORM D - PROPOSED FLOOD CONTROL PROJECT**

SHEET \_\_\_\_\_ OF \_\_\_\_\_

<b>WATERSHED</b>		<b>FORM COMPLETED BY</b>		<b>TYPICAL TYPES OF FLOOD CONTROL PROJECTS</b>					
Name: _____		Name: _____		Channel Excavation / Widening		Levee		Dams	
Municipality: _____		Telephone: _____		Channel Realignment		Gabions		Floodwall	
County: _____		Date: _____		Rock Riprap		Pipe Channel		Concrete Lining	

For County Use: \_\_\_\_\_

Map ID No.	Type of Flood Control Project	Study Phase Begun			Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Flood		Map ID No. Form A*	Owner Name, Address, and Phone
		YES		NO				Frequency Yrs.	Discharge C.F.S.		
		Prelim.	Final								
D-											
D-											
D-											
D-											
D-											
D-											
D-											

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.





**FORM F - PROPOSED STORM WATER CONTROL FACILITIES**

SHEET \_\_\_\_\_ OF \_\_\_\_\_

<b>WATERSHED</b>		<b>FORM COMPLETED BY</b>		<b>DEFINITION</b>	
Name: _____		Name: _____		<b>Storm Water Control Facility</b> A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.	
Municipality: _____		Telephone: _____			
County: _____		Date: _____			

For County Use: \_\_\_\_\_

Map ID No.	Type of Storm Water Control Facility	Proposed Constr. Dates		Map No. Form A*	Contact Person Name, Address and Phone	Comments
		Start	End			
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

**TYPICAL TYPES OF STORM WATER CONTROL FACILITIES**

Detention / Retention Basin  
Natural Pond or Wetland  
Parking Lot Pondling

Roof-Top Storage  
Semi-Pervious Paving  
Infiltration Device (Seepage / Recharge Basin or Underground Tank)



**FORM G - EXISTING STORM WATER COLLECTION SYSTEMS**

SHEET \_\_\_\_\_ OF \_\_\_\_\_

WATERSHED  
 Name: \_\_\_\_\_  
 Municipality: \_\_\_\_\_  
 County: \_\_\_\_\_

FORM COMPLETED BY  
 Name: \_\_\_\_\_  
 Telephone: \_\_\_\_\_  
 Date: \_\_\_\_\_

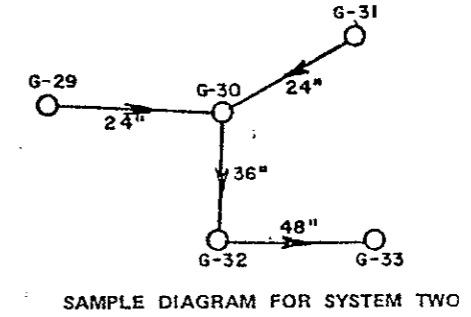
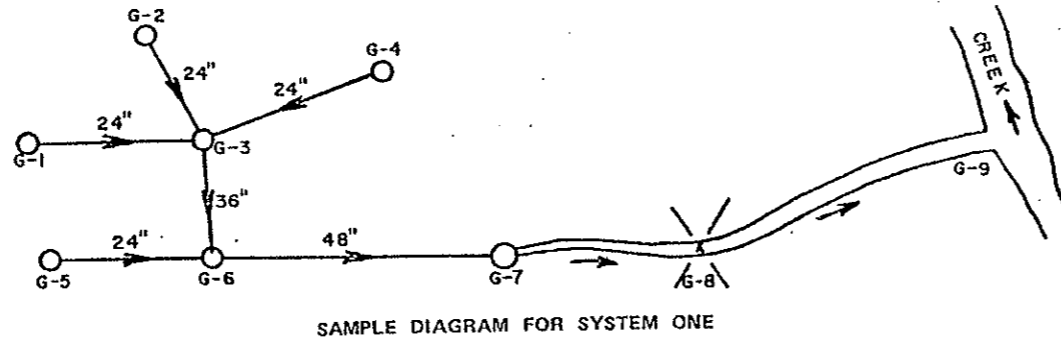
**INSTRUCTIONS**  
 Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *				Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale		Depth					
					D	TW	B	Depth					
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												

\* See measurement key on reverse side.

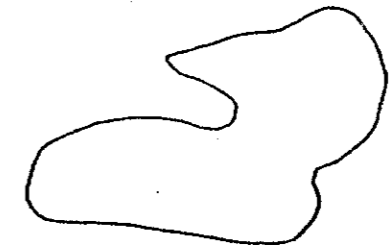


Measurement Key	
D	= Diameter
TW	= Top Width
B	= Bottom Width



SAMPLE FORM (System One Only)

DATE		NAME		ADDRESS		CITY		STATE		ZIP		COUNTRY	
LINE NO.	CONTRACT NO.	CONTRACT DATE	CONTRACT TYPE	CONTRACT VALUE	CONTRACT STATUS	CONTRACT DESCRIPTION	CONTRACT LOCATION	CONTRACT DURATION	CONTRACT COMPLETION	CONTRACT COST	CONTRACT TYPE	CONTRACT STATUS	CONTRACT DESCRIPTION
G-1	G-3	/		24"		CMF	1976	Yes	John Doe 123-4567	Borough of ABC			
G-2	G-3	/		24"		CMF	1978	Yes	John Doe 123-4567	Borough of ABC			
G-4	G-3	/		24"		CMF	1978	Yes	John Doe 123-4567	Borough of ABC			
G-3	G-6	/		36"		CMF	1978	Yes	John Doe 123-4567	Borough of ABC			
G-6	G-5	/		24"		CMF	1978	Yes	John Doe 123-4567	Borough of ABC			
G-6	G-7	/		48"		CMF	1978	Yes	John Doe 123-4567	Borough of ABC			
G-7	G-8	/		36"	24"	Concrete	1980	Yes	John Doe 123-4567	Borough of ABC			
G-8	G-9	/		36"	24"	Manhole pipe				Borough of ABC			
G-9	G-9	/								Borough of ABC			
G-9	G-9	/								Borough of ABC			
G-9	G-9	/								Borough of ABC			



Outline known areas where construction exists but construction data is unavailable.



**FORM H - PROPOSED STORM WATER COLLECTION SYSTEMS**

SHEET \_\_\_\_\_ OF \_\_\_\_\_

<b>WATERSHED</b>  Name: _____ Municipality: _____ County: _____	<b>FORM COMPLETED BY</b>  Name: _____ Telephone: _____ Date: _____	<b>INSTRUCTIONS</b>  On the map for proposed storm water collection systems, diagram each proposed system. Indicate a map point to show changes in system elements, pipe size, pipe direction and connections to existing systems. For proposed additions to existing systems, diagram only the additions and their connection point into the existing system. Complete a separate form for each proposed, new system and one for each existing system having one or more proposed additions. Identify the points within a system consecutively (ex. H-1, H-2, H-3). Start the first point in each additional system 20 numbers higher (if H-3 ends one system, begin the next with H-23 ). Be sure to show the point where proposed additions connect into existing systems, using the map point number from the existing system form and map. See Sample Diagrams and Form on Reverse.
---	--	--

Map I.D. No.		System's Elements (x)			Measurements *				Material	Map I.D. Nos.** Form A	Proposed Const. Dates		Design Data Avail.	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
					Pipe	Open Channel / Swale					Start	End			
From	To	Pipe	Open Channel	Swale	D	TW	B	Depth							
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
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H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														

\* See measurement key on reverse side. \*\* Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.







WATERSHED

FORM COMPLETED BY

Name: \_\_\_\_\_  
Municipality: \_\_\_\_\_  
County: \_\_\_\_\_

Name: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Date: \_\_\_\_\_

SITE	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-
<b>Types of Water Quality Problems</b>												
High Community Tolerance												
High Temperature												
High Turbidity												
Hydrocarbon Pollution												
Low Community Diversity												
Low Dissolved Oxygen												
Low pH												
Nutrient Enrichment												
Poor Habitat												
Other/Explanation Line No.												
<b>Potential Cause(s)</b>												
Agriculture												
Construction Site												
Erosion												
Lake Discharge												
STP Outfall												
Other/Explanation Line No.												
<b>Frequency</b>												
Year Most Recent Occurrence												
Year First Known Occurrence												
<b>Source of Information</b>												
BWA Streamwatch												
County Water Quality Study												
Driveby												
UCCD Complaint Investigation												
Other/Explanation Line No.												

EXPLANATION LINES

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10



**Paul C. Rizzo Associates, Inc.**  
ENGINEERS & CONSULTANTS

**RECEIVED**

**AUG 24 2005**

August 22, 2005

**CAMBRIA COUNTY  
CONSERVATION DISTRICT**

Project No. 01-2486.47

Mr. Robb Piper  
Cambria County Conservation District  
401 Candlelight Drive, Suite 221  
Ebensburg, PA 15931

**TRANSMITTAL  
STONYCREEK RIVER STORMWATER PLAN  
CITY OF JOHNSTOWN, CAMBRIA COUNTY**

Dear Mr. Piper:

In accordance with your request for information, enclosed is the stormwater forms packet from the City of Johnstown, Cambria County.

Sincerely yours,

***Paul C. Rizzo Associates, Inc.***

Mark W. Lazzari  
Watershed/Land Use Planner

MWL/RJF/ljr  
Enclosure

pc: City Manager, Jeffrey Silka  
Director of Public Works, Darby Sprincz

647 MAIN STREET • SUITE 200 • JOHNSTOWN, PA 15901  
L001-2486.47/01 PHONE (814) 536-6767 • FAX (814) 536-6770  
web address: [www.rizzoassoc.com](http://www.rizzoassoc.com) • email: [pcra.johnstown@rizzoassoc.com](mailto:pcra.johnstown@rizzoassoc.com)

PITTSBURGH, PA (CORP. HQ) COLUMBIA, SC COLUMBUS, OH WALDWICK, NJ  
BUENOS AIRES, ARGENTINA ST. PETERSBURG, RUSSIA PLZEN, CZECH REPUBLIC



WATERSHED			FORM COMPLETED BY				Before Filling Out Form, See Instructions On Back				
Name: <u>Sony Creek</u>			Name: <u>Mark W. Lazzari</u>				For County Use:				
Municipality: <u>City of Johnstown</u>			Telephone: <u>814-536-6767</u>								
County: <u>Cambria</u>			Date: <u>8/10/05</u>								

MAP NO. *	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-
<b>Types of Storm Water Problems</b>												
Flooding												
Accelerated Erosion												
Sedimentation												
Landslide												
Groundwater												
Water Pollution												
Other (Explain)												
Explanation Line No. (On Back)												
<b>Cause (s)</b>												
Storm Water Volume												
Storm Water Velocity												
Storm Water Direction												
Water Obstruction												
Other (Explain)												
Explanation Line No. (On Back)												
<b>Frequency</b>												
Year Most Recent Occurred												
Year First Known Occurred												
<b>Regularity</b>												
More Than 1 Year												
Less Than 1 Year												
Only During Agnes												
<b>Duration (If Applicable)</b>												
Less Than 1 Day												
1 Day + (Enter Days)												
<b>Property Damage</b>												
Loss of Life/Vital Services												
Private												
More Than One Owner												
Types of Properties												
Number of Properties												
Public (List Types)												
Explanation Line No. (On Back)												
<b>Solutions</b>												
Suggested												
Explanation Line No. (On Back)												
Formally Proposed												
Explanation Line No. (On Back)												

*MA*

\* Include Map ID No. if found on any other form listing proposed facilities.



FORM C - EXISTING FLOOD CONTROL PROJECT

WATERSHED		FORM COMPLETED BY		TYPICAL TYPES OF FLOOD CONTROL PROJECTS		
Name:	<u>Stony Creek</u>	Name:	<u>Mark W. Lazzari</u>	Channel Excavation / Widening Channel Realignment Rock Riprap	Levee Gabions Pipe Channel	Dams Floodwall Concrete Lining
Municipality:	<u>City of Johnstown</u>	Telephone:	<u>814-536-6767</u>			
County:	<u>Cambria</u>	Date:	<u>8/10/05</u>			

For County Use:

Map ID No.	Type of Flood Control Project	Year Constr Built	Expected Life Yrs.	Design Flood		Owner Name, Address, and Phone
				Frequency Yrs.	Discharge C.F.S.	
C-	See Attached MAPS & Data sheet					
C-	WWW.JohnstownFloodProtection.COM					
C-	See					
C-						
C-						
C-						
C-						





FORM D - PROPOSED FLOOD CONTROL PROJECT

SHEET \_\_\_\_\_ OF \_\_\_\_\_

WATERSHED		FORM COMPLETED BY		TYPICAL TYPES OF FLOOD CONTROL PROJECTS			
Name:	<u>Stony Creek</u>	Name:	<u>Mark Wilozzi</u>	Channel Excavation / Widening	Levee	Dams	
Municipality:	<u>City of Johnstown</u>	Telephone:	<u>814-536-6767</u>	Channel Realignment	Gabions	Floodwall	
County:	<u>Cambria</u>	Date:	<u>8/10/05</u>	Rock Riprap	Pipe Channel	Concrete Lining	

For County Use:

Map ID No.	Type of Flood Control Project	Study Phase Begun			Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Flood		Map ID No. Form A*	Owner Name, Address, and Phone
		YES		NO				Frequency Yrs.	Discharge C.F.S.		
		Prelim.	Final								
D-											
D-											
D-		NA									
D-											
D-											
D-											
D-											

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.





FORM F - PROPOSED STORM WATER CONTROL FACILITIES

SHEET \_\_\_\_\_ OF \_\_\_\_\_

<b>WATERSHED</b>		<b>FORM COMPLETED BY</b>		<b>DEFINITION</b> Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.
Name:	<u>Stony Creek</u>	Name:	<u>Mark Wilczan</u>	
Municipality:	<u>City of Johnstown</u>	Telephone:	<u>814 536-6767</u>	
County:	<u>Cambria</u>	Date:	<u>8/10/05</u>	

For County Use:

Map ID No.	Type of Storm Water Control Facility	Proposed Constr. Dates		Map No. Form A*	Contact Person Name, Address and Phone	Comments
		Start	End			
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						

NA

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

TYPICAL TYPES OF STORM WATER CONTROL FACILITIES

Detention / Retention Basin  
Natural Pond or Wetland  
Parking Lot Ponding

Roof-Top Storage  
Semi-Pervious Paving  
Infiltration Device (Seepage / Recharge Basin or Underground Tank)



FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

SHEET \_\_\_\_\_ OF \_\_\_\_\_

WATERSHED  
 Name: Stony Creek  
 Municipality: City of Johnstown  
 County: Cambria

FORM COMPLETED BY  
 Name: Mark W. Lazzari  
 Telephone: 814 536-6767  
 Date: 8/10/05

INSTRUCTIONS  
 Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *			Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale						
					D	TW	B	Depth				
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											

\* See measurement key on reverse side.







**WATERSHED**

Name: Stony creek  
 Municipality: City of Johnstown  
 County: Cambria

**FORM COMPLETED BY**

Name: Mark W. Lazzari  
 Telephone: 814-536-6767  
 Date: 8/10/05

**SITE**

	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-
<b>Types of Water Quality Problems</b>												
High Community Tolerance												
High Temperature												
High Turbidity												
Hydrocarbon Pollution												
Low Community Diversity												
Low Dissolved Oxygen												
Low pH												
Nutrient Enrichment												
Poor Habitat												
Other/Explanation Line No.												
<b>Potential Cause(s)</b>												
Agriculture												
Construction Site												
Erosion												
Lake Discharge												
STP Outfall												
Other/Explanation Line No.												
<b>Frequency</b>												
Year Most Recent Occurrence												
Year First Known Occurrence												
<b>Source of Information</b>												
BWA Streamwatch												
County Water Quality Study												
Driveby												
UCCD Complaint Investigation												
Other/Explanation Line No.												

NA

**EXPLANATION LINES**

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10



NATIONAL FLOOD INSURANCE PROGRAM

**FIRM**  
FLOOD INSURANCE RATE MAP

CITY OF  
JENKINTOWN,  
PENNSYLVANIA  
DADE COUNTY

NATIONAL FLOOD INSURANCE PROGRAM

**FIRM**  
FLOOD INSURANCE RATE MAP

CITY OF  
JENKINTOWN,  
PENNSYLVANIA  
CAMBRIA COUNTY

COMMUNITY-PANEL NUMBER  
#20001 0070 0

MAP REVISED  
AUGUST 7, 1990



PROJECT:

### City of Johnstown Flood Protection Projects Project Features

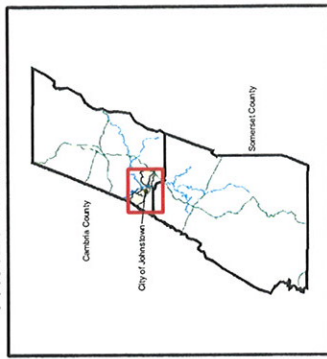
TITLE:

### Flood Protection Projects Location Map (Watershed Base)

LEGEND:

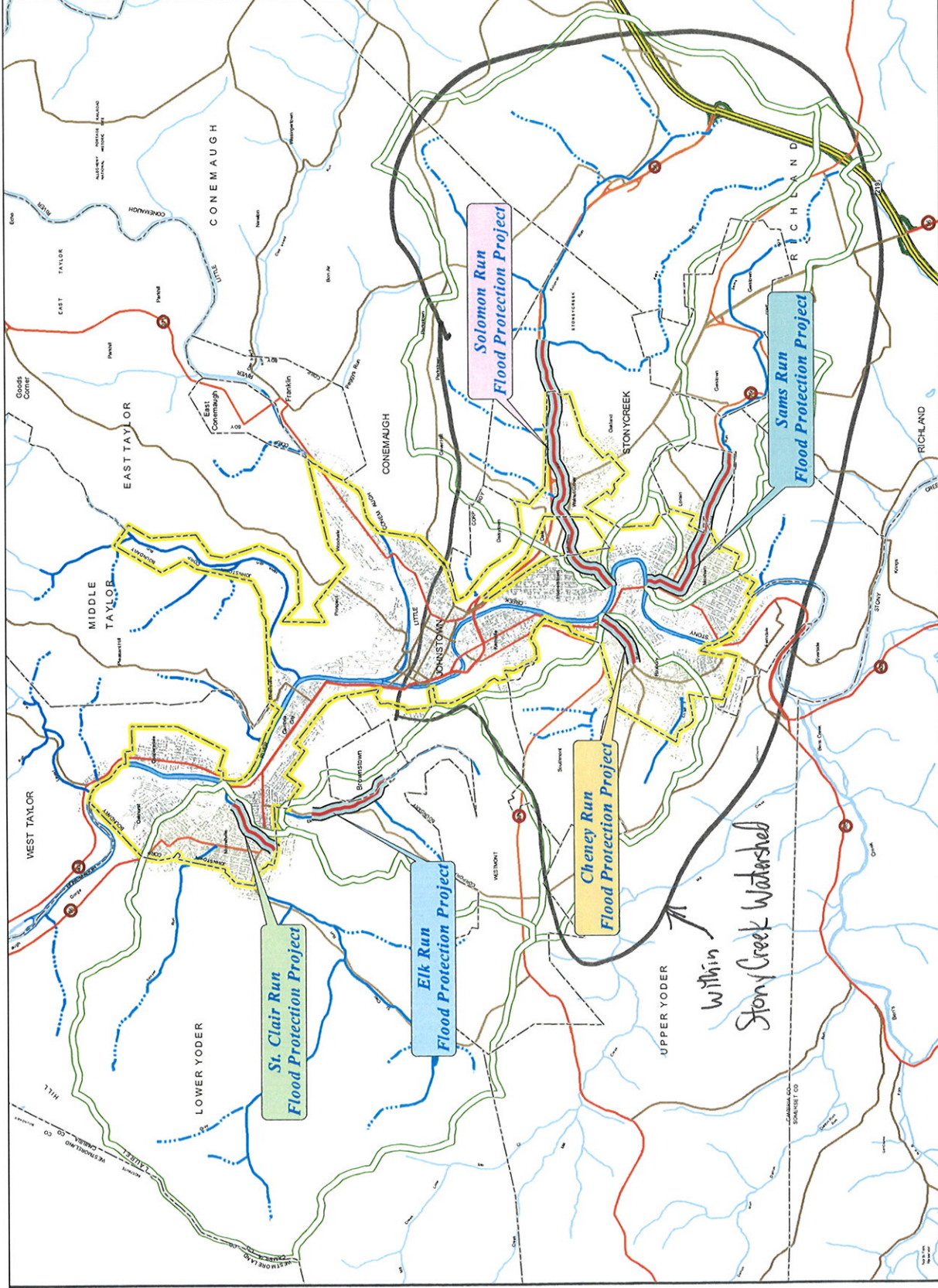
- Flood Protection Project Reach
- Flood Protection Project Waterway
- Tributary
- Intermittent Flow
- Transportation Route
- PA Route
- State Route
- US Route
- Regional Waterway
- Flood Protection Project Watershed
- City of Johnstown Corporate Boundary
- Municipal Boundary

### PROJECT LOCATION MAP



PREPARED FOR:

Johnstown Redevelopment Authority



DRAWN BY:	MVL	FILE PATH:	F:\GIS\2002\2397_01.D2
CHECKED BY:	BAW	DESCRIPTION:	Location Map
APPROVED BY:	JFA	SHEET SIZE:	8.5 x 11









PROJECT:

City of Johnston  
Flood Protection Projects  
Solomon Run  
Flood Protection Project  
DGS 184-4

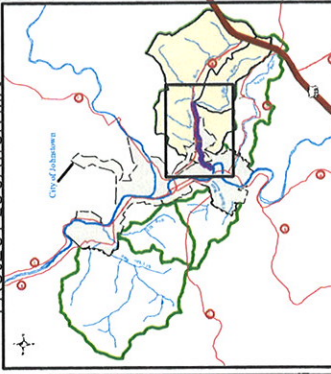
TITLE:

Project Features Map

LEGEND:

-  Grouted Side Sloped Channel
-  Concrete Trapezoidal Channel
-  20-ft Rectangular Channel
-  25-ft Rectangular Channel
-  Concrete Weir
-  Debris Basin

PROJECT LOCATION MAP

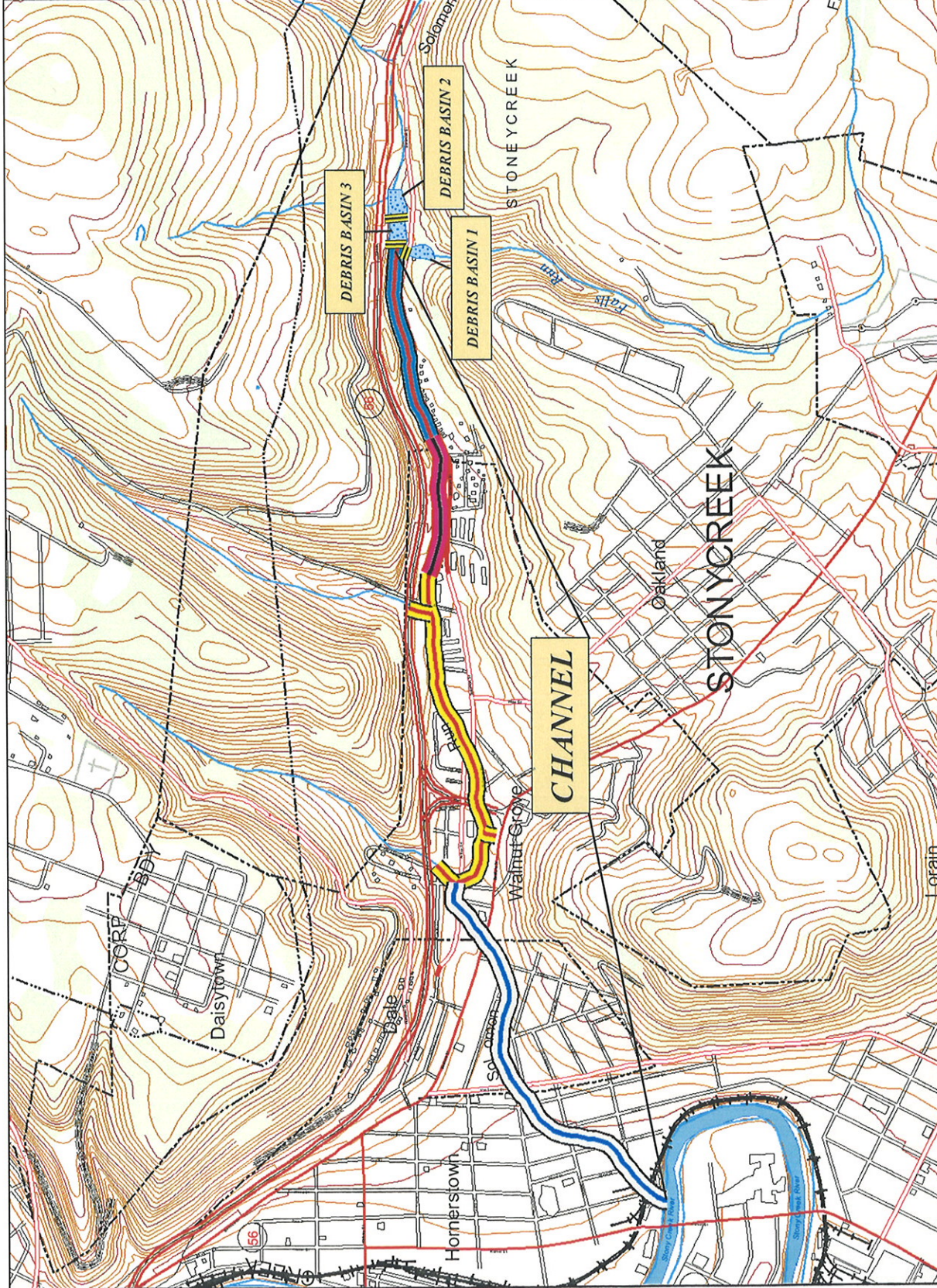


PREPARED FOR:

Johnston Redevelopment Authority



Paul C. Rezo Associates, Inc.  
ENGINEERS & CONSULTANTS



DRAWN BY:	MWL	62203	FILE PATH: F:\GIS\200202-2797_01\03
CHECKED BY:	RMW	62203	DESCRIPTION: Project Features
APPROVED BY:	JRA	101003	SHEET SIZE: 8.5 X 11



PROJECT:









City of Johnstown  
Flood Protection Projects

Sams Run  
Flood Control Project  
DGS 184-2/1 80-22

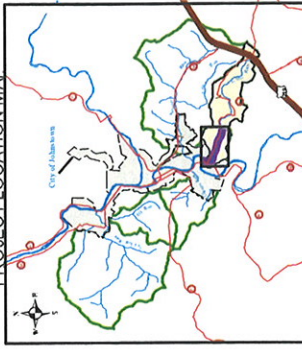
TITLE:

Project Features Map

LEGEND:

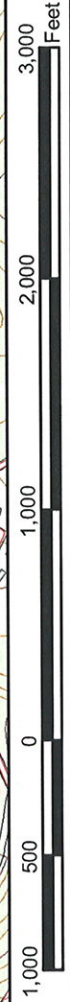
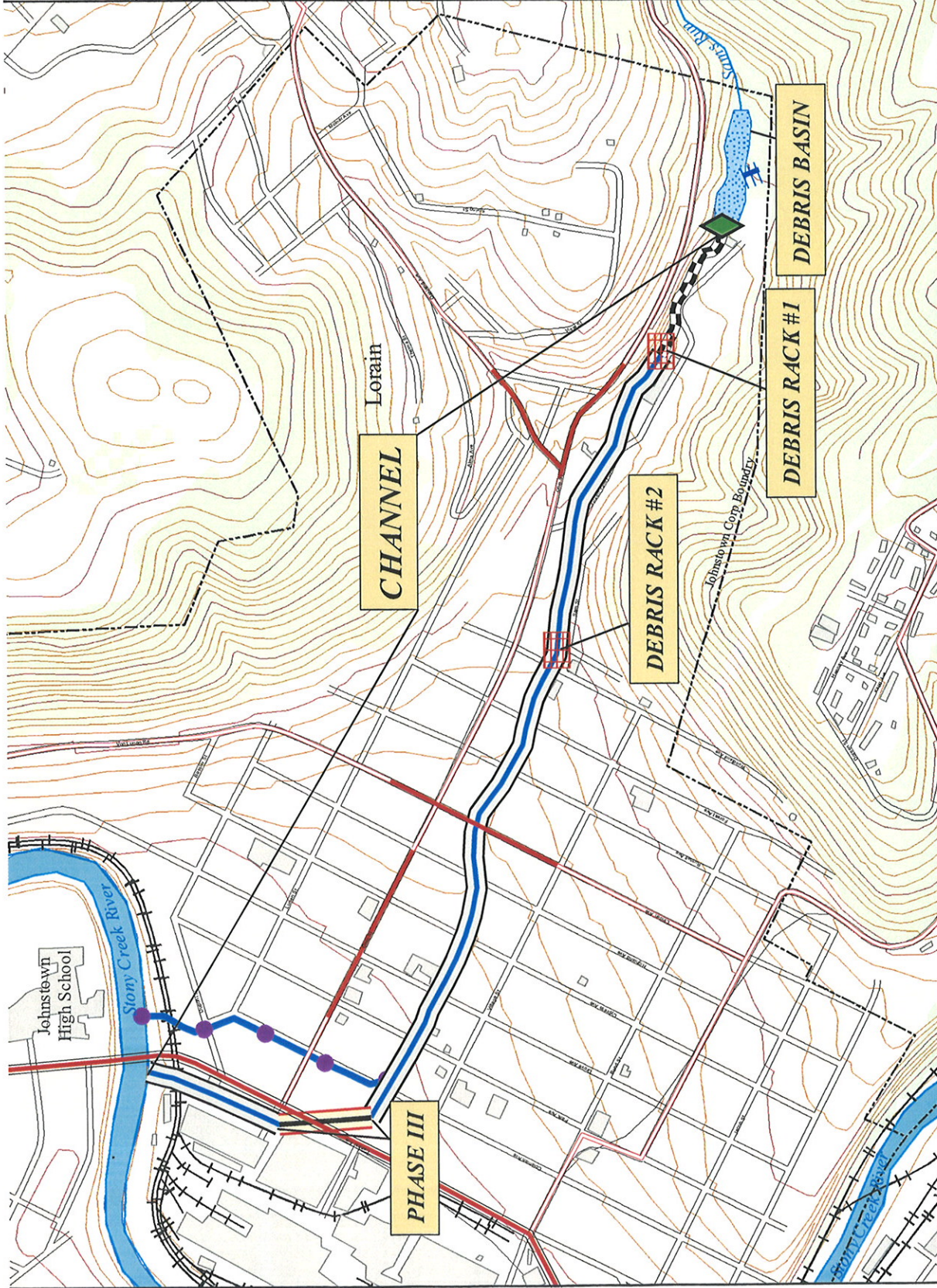
-  Slotted Concrete Weir
-  Debris Rack
-  Rectangular Concrete Channel
-  Grouted Rip Rap Channel
-  Supplemental Capacity Culvert
-  Sams Run Phase III
-  Diversion Dike
-  Debris Basin

PROJECT LOCATION MAP



PREPARED FOR:

Johnstown Redevelopment Authority



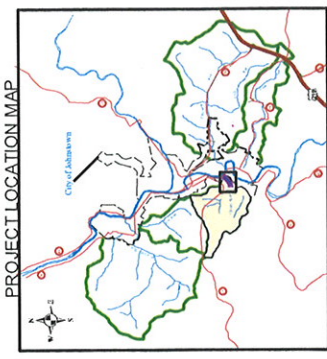
DRAWN BY:	MWL	7/11/03	FILE PATH:	F:\GIS\2002\2797\01\04
CHECKED BY:	BNW	8/19/03	DESCRIPTION:	Project Features
APPROVED BY:	JRA	10/10/03	SHEET SIZE:	8.5 x 11



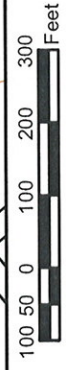
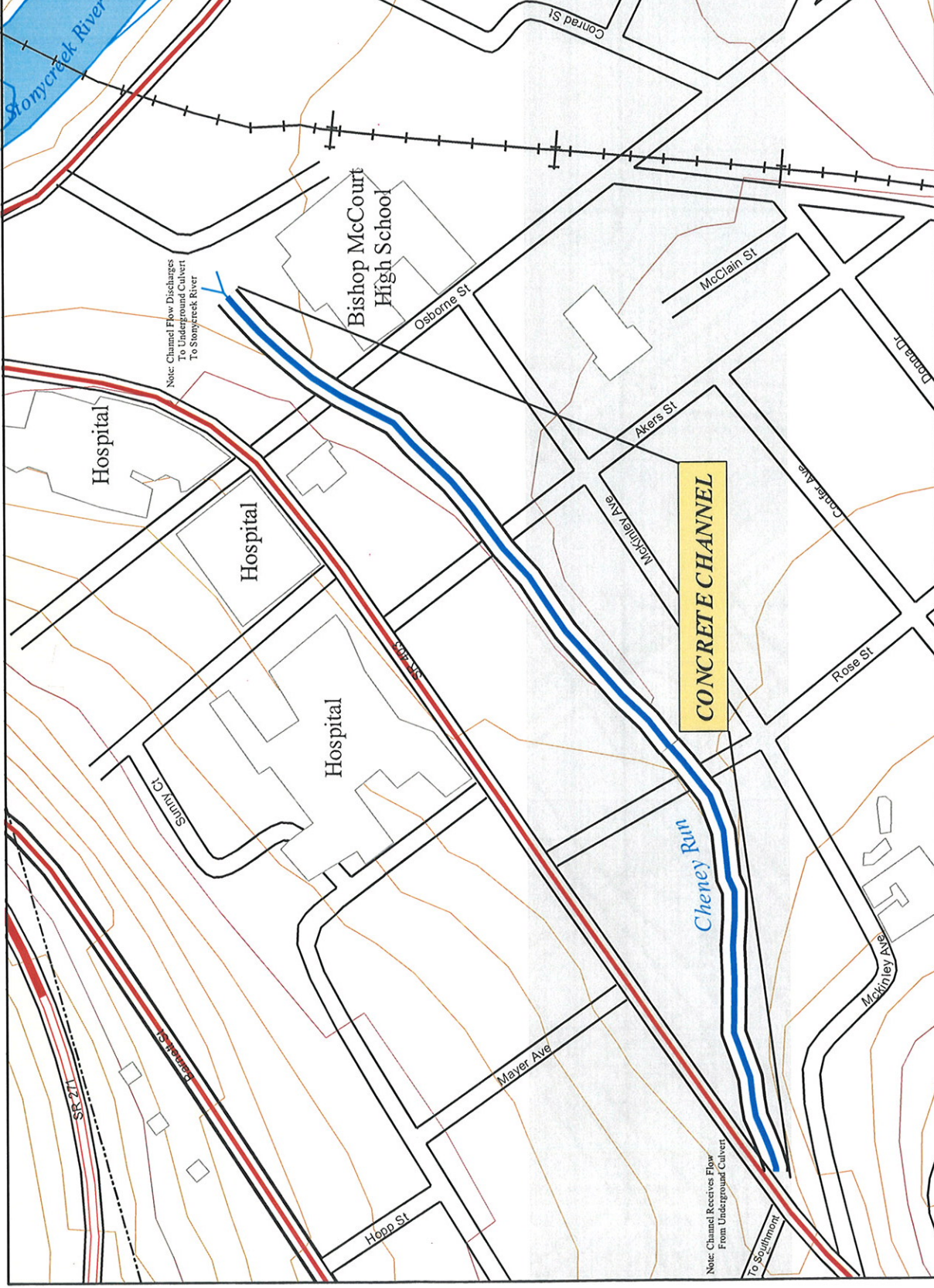
PROJECT:  
 City of Johnstown  
 Flood Protection Projects  
 Cheney Run  
 Flood Control Project  
 DGS 184-16

TITLE:  
 Project Features Map

LEGEND:  
 Concrete Rectangular Channel



PREPARED FOR:  
 Johnstown Redevelopment Authority  
 Paul C. Rizzo Associates, Inc.  
 ENGINEERS & CONSULTANTS



DRAWN BY:	MVL	7/1/03	FILE PATH:	F:\GIS\2002\02-2797_01\05
DESIGNED BY:	RHW	8/18/03	DESCRIPTION:	Project Features
APPROVED BY:	JRA	10/1/03	SHEET SIZE:	8.5 x 11

# City of Johnstown, Existing Flood Control and Storm Water Control Facilities

WWW. JohnstownFloodProtection.COM

PROJECT HISTORY						
Feature	DGS No.	Latitude	Longitude	Description	Constructed	Contractor
<b>Solomon Run Flood Protection Project</b>						
Channel	DGS 184-4	40°18'48.77"N - 40°18'20.27"N	78°52'30.38"W - 78°54'37.80"W	11,300-ft of Concrete Channel	1987-1988	W. P. Dickerson & Son, Inc.
Concrete with Grouted Side Slopes		40°18'48.83"N - 40°18'45.03"N	78°52'30.49"W - 78°52'56.64"W	2,100-ft of Grouted Side Sloped channel. From Debris Dam 3 to Trapezoidal channel		
Concrete Trapezoidal		40°18'45.03"N - 40°18'44.44"N	78°52'56.64"W - 78°53'14.60"W	1,400-ft of Trapezoidal channel. From Grouted Side Slope channel to 20-ft Rectangular channel		
20-ft Rectangular Concrete		40°18'44.44"N - 40°18'41.91"N	78°53'14.60"W - 78°53'55.81"W	3,450-ft of 20-ft Rectangular channel. From Trapezoidal channel to 25-ft Rectangular channel		
25-ft Rectangular Concrete		40°18'41.91"N - 40°18'20.29"N	78°53'55.81"W - 78°54'37.84"W	4,350-ft of 25-ft Rectangular channel. From 20-ft Rectangular channel to Stonycreek River		
Debris Basin 1		40°18'48.70"N	78°52'24.86"W	Most upstream Basin located on Solomon Run		
Debris Basin 2		40°18'48.34"N	78°52'48.52"W	Second Basin - located on Solomon Run just downstream of Basin 1		
Debris Basin 3		40°18'46.05"N	78°52'31.12"W	Debris Basin located on Falls Run - Enters Solomon Run just downstream of Debris Basin 2		
Debris Dam 1		40°18'48.36"N	78°52'26.69"W	Most upstream Dam - Associated with Debris Basin 1- located on Solomon Run		
Debris Dam 2		40°18'48.28"N	78°52'30.19"W	Second Debris Dam - located on Solomon Run just downstream of Debris Dam 1		
Debris Dam 3	40°18'47.41"N	78°52'31.35"W	Debris Dam located on Falls Run - At Solomon Run just downstream of Debris Dam 2			
<b>Sams Run Flood Protection Project</b>						
Channel	DGS 184-2	40°17'33.94"N - 40°18'5.35"N	78°53'39.56"W - 78°54'41.42"W	6,500-ft of Concrete Channel	1985-1986	Gordon L. Delozier, Inc.
Grouted Rip Rap Channel		40°17'33.94"N - 40°17'37.26"N	78°53'39.56"W - 78°53'48.72"W	820-ft of channel located from Slotted Concrete Weir 1 to Steel Debris Rack 1		
Rectangular Concrete Channel		40°17'37.26"N - 40°18'5.35"N	78°53'48.92"W - 78°54'41.42"W	5,720-ft of Rectangular channel. From Steel Debris Rack No. 1 to Phase III		
Debris Basin 1		40°17'33.25"N	78°53'35.54"W	Located in Lorain Borough Park.		
Slotted Concrete Weir 1		40°17'33.94"N	78°53'39.56"W	Multi-piered concrete structure at discharge end of Debris Basin		
Debris Rack 1		40°17'37.26"N	78°53'48.72"W	Steel rack located at entrance to Lorain Borough Park		
Debris Rack 2						
<b>Phase III</b>						
Channel	DGS 180-22	40°17'52.98"N - 40°17'55.65"N	78°54'44.28"W - 78°54'44.56"W	280-ft of Rectangular channel	1995	Gordon L. Delozier, Inc.
<b>Cheney Run Flood Protection Project</b>						
Channel	DGS 184-16	40°18'10.95"N - 40°18'20.73"N	78°55'20.46"W - 78°55'0.33"W	1,950-ft of concrete Rectangular channel	Circa 1993	

October 26, 2005

Borton Lawson Engineering  
6814 Chrisphalt Drive, Suite 200  
Bath, Pennsylvania 18014-8503

Attn: Mr. Paul A. DeBerry, P.E.

BORTON LAWSON LEHIGH VALLEY OFFICE

<input type="checkbox"/> SRB	<input type="checkbox"/> CORRESPONDENCE
<input checked="" type="checkbox"/> PAD	<input type="checkbox"/> AGREEMENT
<input type="checkbox"/> MJW	<input type="checkbox"/> CONTRACT
<input type="checkbox"/> WSB	
<input type="checkbox"/> PAR	
<input type="checkbox"/> ADMIN	

NOV - 3 2005

PROJECT NO. \_\_\_\_\_

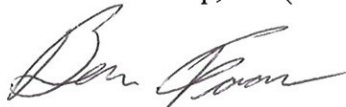
**STONYCREEK ACT 167 PLAN  
REQUESTED INFORMATION FOR  
JENNERSTOWN BOROUGH, SOMERSET COUNTY**

Dear Mr. DeBerry:

On behalf of our client, Jennerstown Borough, we are submitting information requested at the June 22, 2005 Stonycreek Act 167 Plan meeting.

If you have any questions please call.

The EADS Group, Inc. (Somerset)



by: Ben Faas











enclosures

cc: Jennerstown Borough  
Cambria County Conservation District  
File No.4400-G-01, w/enc.  
C-file



Jenners town  
Borough

FORM DESCRIPTION SUMMARY  
ACT 167 WATERSHED STORMWATER MANAGEMENT PLAN

Form	Symbol	Description	Types of Examples	Sources of Information
A		Stormwater Problem Areas	Flooding, Drainage, Erosion/Sedimentation	Existing studies or reports, Township Documentation, Personal memory, Township engineer N/A
B		Obstructions	Bridges, Culverts, Fill, Structures	Owner or structure, township files, subdivision applications, roadmaster, township engineer N/A
C		Existing Flood Control Projects	Channel excavation, rip-rap, floodwalls, etc.	Township records, township engineer, owner of facility N/A
D		Proposed Flood Control Projects	Channel excavation, rip-rap, floodwalls, etc.	Township records, township engineer, owner of facility N/A
E		Existing Stormwater Control Facilities	Detention basins, recharge basins, rooftop storage	Subdivision files, township engineer, owner of facility A
F		Proposed Stormwater Control Facilities	Detention basins, recharge basins, rooftop storage	Subdivision files, township engineer, owner of facility F
G		Existing Stormwater Collection Systems	Storm sewers, man-made channels, diversions	Existing plans, township engineer, owner of system F
H		Proposed Stormwater Collection Systems	Storm sewers, man-made channels, diversions	Existing plans, township engineer, owner of system N/A
I		Present & Projected Development in Flood Hazard Areas	Subdivision / site plans	Flood Insurance Studies, Subdivision / Site Plans, General knowledge, Township engineer, Private flood studies N/A
J		Water Quality Problem Areas	Construction sites, agriculture	Municipalities, Conservation District N/A









FORM F - PROPOSED STORM WATER CONTROL FACILITIES

SHEET 1 OF 1

WATERSHED		FORM COMPLETED BY		DEFINITION Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.
Name: _____		Name: <u>THE EADS GROUP</u>		
Municipality: <u>JENNERSTOWN BOROUGH</u>		Telephone: <u>(814) 445-6551</u>		
County: <u>SUMMERSET</u>		Date: _____		

For County Use:

Map ID No.	Type of Storm Water Control Facility	Proposed Constr. Dates		Map No. Form A*	Contact Person Name, Address and Phone	Comments
		Start	End			
F- 1	PROPOSED DETENTION BASIN					
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

TYPICAL TYPES OF STORM WATER CONTROL FACILITIES

- |                             |  |
|-----------------------------|--|
| Detention / Retention Basin | Roof-Top Storage   |
| Natural Pond or Wetland     | Semi-Pervious Paving   |
| Parking Lot Pondling        | Infiltration Device (Seepage / Recharge Basin or Underground Tank) |



FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

SHEET 1 OF 3

<b>WATERSHED</b>	<b>FORM COMPLETED BY</b>	<b>INSTRUCTIONS</b>
Name: _____	Name: <u>THE EADS GROUP</u>	Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.
Municipality: <u>JENNERS TOWN</u>	Telephone: <u>(814) 445-6561</u>	
County: <u>SOMERSET</u>	Date: _____	

Map I.D. No.		System's Elements (x)			Measurements *			Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility				
					Pipe D	Channel / Swale										
From	To	Pipe	Open Channel	Swale		TW	B	Depth								
G-1	DAY G-1ight							15" C.P.P.					CPP			
G-2	DAY G-1ight							4" PVC.					PVC			
G-3	DAY G-1ight							12" C.M.P.					CMP			
G-4	G-5							12" P.V.C.					PVC			
G-5	G-6							12" CONC					CONC			
G-6	G-7							16" C.P.P.					CPP			
G-7	G-8							16" C.P.P.					CPP			
G-8	G-9							16" PVC.					PVC			
G-10	G-11							18" CONC.					CONC			
G-11	G-12							18" CONC.					CONC			
G-12	DAY G-1ight							18" CONC.					CONC			
G-13	G-14							12" C.M.P.					CMP			
G-14	G-15							12" C.M.P.					CMP			
G-15	G-16							18" C.P.P.					CPP			
G-16	G-17							18" CONC.					CONC.			

\* See measurement key on reverse side.



FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

WATERSHED  
 Name: \_\_\_\_\_  
 Municipality: JENNERSTOWN BOROUGH  
 County: SOMERSET

FORM COMPLETED BY  
 Name: THE FADS GROUP  
 Telephone: (814) 445-6551  
 Date: \_\_\_\_\_

INSTRUCTIONS  
 Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *			Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale						
						TW	B	Depth				
G-17	G- <sup>DAY</sup> Light				18" CONC.							
G-18	G-19				12" CONC.							
G-19	G-20				12" CONC.							
G-20	G-21				12" CONC.							
G-21	G-22				12" CONC.							
G-22	G- <sup>DAY</sup> Light				18" CONC.							
G-23	G-24				12" C.M.P.							
G-24	G-25				12" CONC.							
G-25	G-26				12" CONC.							
G-26	G-27				12" CONC.							
G-27	G-41				18" CONC.							
G-41	G-28				18" CONC.							
G-28	G- <sup>DAY</sup> Light				2' CONC.							
G-29	G-30				12" CONC.							
G-30	G- <sup>DAY</sup> Light				12" CONC.							

\* See measurement key on reverse side.



FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

SHEET 3 OF 3

WATERSHED  
Name: \_\_\_\_\_  
Municipality: JENNIFERSTOWN BOARD  
County: SOMERSET

FORM COMPLETED BY  
Name: THE EADS GROUP  
Telephone: (814) 445-6551  
Date: \_\_\_\_\_

INSTRUCTIONS  
Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *			Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale						
						TW	B	Depth				
G-31	G-32				12" CONC							
G-32	G- <sup>DAY</sup> light				12" CONC.							
G-33	G- <sup>DAY</sup> light				12" C.M.P.							
G-34	G- <sup>DAY</sup> light				12" C.M.P.							
G-35	G-36				12" C.P.P.							
G-36	G- <sup>DAY</sup> light				12" C.P.P.							
G-37	G-38				12" C.P.P.							
G-38	G-39				12" C.P.P.							
G-39	G- <sup>DAY</sup> light				12" C.P.P.							
G-40	G- <sup>DAY</sup> light				12" C.P.P.							
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											

\* See measurement key on reverse side.



<b>WATERSHED</b>		<b>FORM COMPLETED BY</b>				Before Filling Out Form, See Instructions On Back					
Name: <u>Que. Creek</u>		Name: <u>Jim Henry</u>				For County Use:					
Municipality: <u>Jewner TWP</u>		Telephone: <u>814-629-9153</u>									
County: <u>Somerset</u>		Date: <u>8/6/05</u>									

MAP NO. *	A-1	A-2	A-3	A-4	A-	A-	A-	A-	A-	A-	A-	A-
<b>Types of Storm Water Problems</b>												
Flooding	✓	✓	✓	✓								
Accelerated Erosion												
Sedimentation												
Landslide												
Groundwater												
Water Pollution												
Other (Explain)												
Explanation Line No. (On Back)												
<b>Cause (s)</b>												
Storm Water Volume	✓	✓	✓	✓								
Storm Water Velocity												
Storm Water Direction												
Water Obstruction												
Other (Explain)												
Explanation Line No. (On Back)												
<b>Frequency</b>												
Year Most Recent Occurred	2004	2005	2005	2005								
Year First Known Occurred	?	?	?	?								
<b>Regularity</b>												
More Than 1 Year	✓	✓	✓	✓								
Less Than 1 Year	✓											
Only During Agnes												
<b>Duration (If Applicable)</b>												
Less Than 1 Day		✓		✓								
1 Day + (Enter Days)	190 1/2		190 2									
<b>Property Damage</b>												
Loss of Life/Vital Services												
Private	✓		✓	✓								
More Than One Owner		✓										
Types of Properties	House			House								
Number of Properties	1											
Public (List Types)		✓	✓									
Explanation Line No. (On Back)												
<b>Solutions</b>												
Suggested	✓	✓										
Explanation Line No. (On Back)												
Formally Proposed												
Explanation Line No. (On Back)												

\* Include Map ID No. if found on any other form listing proposed facilities.

**RECEIVED**

AUG 9 2005

CONSERVATION DISTRICT

A-1 Acosta 1- House in flood Plain  
WATER DAMAGES 1ST FLOOR NO BASEMENT,  
DREDGING QUE. CREEK

A-2 JENNER - FALTON AREA.  
STORM WATER FLOODS SOME BASEMENTS AND  
YARDS. EROSION AND FLOODING ROADWAY.  
MORE STORM DRAINS NEEDED BY TWP & STORM  
WATER ON STATE ROAD 601 NEAR FALTON INTER-  
INTERCHANGE WITH STATE RT 30.

A-3 COMMUNITY PARK AREA FALTON  
FLOODS BALL FIELDS AT TWP LEASED  
COMMUNITY PARK

A-4 FORWARDSTOWN AREA.  
SOME HOUSE BASEMENT FLOODING & TWP  
ROADWAY FLOODING





not applicable



FORM D - PROPOSED FLOOD CONTROL PROJECT

SHEET \_\_\_\_\_ OF \_\_\_\_\_

<b>WATERSHED</b> Name: _____ Municipality: _____ County: _____	<b>FORM COMPLETED BY</b> Name: _____ Telephone: _____ Date: _____	<b>TYPICAL TYPES OF FLOOD CONTROL PROJECTS</b> <table style="width:100%; border: none;"> <tr> <td style="width:33%;">Channel Excavation / Widening</td> <td style="width:33%;">Levee</td> <td style="width:33%;">Dams</td> </tr> <tr> <td>Channel Realignment</td> <td>Gabions</td> <td>Floodwall</td> </tr> <tr> <td>Rock Riprap</td> <td>Pipe Channel</td> <td>Concrete Lining</td> </tr> </table>	Channel Excavation / Widening	Levee	Dams	Channel Realignment	Gabions	Floodwall	Rock Riprap	Pipe Channel	Concrete Lining
Channel Excavation / Widening	Levee	Dams									
Channel Realignment	Gabions	Floodwall									
Rock Riprap	Pipe Channel	Concrete Lining									

For County Use: \_\_\_\_\_

Map ID No.	Type of Flood Control Project	Study Phase Begun			Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Flood		Map ID No. Form A*	Owner Name, Address, and Phone
		YES		NO				Frequency Yrs.	Discharge C.F.S.		
		Prelim.	Final								
D-											
D-											
D-											
D-											
D-											
D-											
D-											

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.



NOT APPLICABLE



**FORM F - PROPOSED STORM WATER CONTROL FACILITIES**

SHEET \_\_\_\_\_ OF \_\_\_\_\_

<b>WATERSHED</b>  Name: _____ Municipality: _____ County: _____	<b>FORM COMPLETED BY</b>  Name: _____ Telephone: _____ Date: _____	<b>DEFINITION</b>  Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.
---	--	--

For County Use: \_\_\_\_\_

Map ID No.	Type of Storm Water Control Facility	Proposed Constr. Dates		Map No. Form A*	Contact Person Name, Address and Phone	Comments
		Start	End			
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

**TYPICAL TYPES OF STORM WATER CONTROL FACILITIES**

Detention / Retention Basin  
 Natural Pond or Wetland  
 Parking Lot Pondling

Roof-Top Storage  
 Semi-Pervious Paving  
 Infiltration Device (Seepage / Recharge Basin or Underground Tank)

Not Applicable



**FORM G - EXISTING STORM WATER COLLECTION SYSTEMS**

SHEET \_\_\_\_\_ OF \_\_\_\_\_

**WATERSHED**  
 Name: \_\_\_\_\_  
 Municipality: \_\_\_\_\_  
 County: \_\_\_\_\_

**FORM COMPLETED BY**  
 Name: \_\_\_\_\_  
 Telephone: \_\_\_\_\_  
 Date: \_\_\_\_\_

**INSTRUCTIONS**  
 Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *			Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale						
						TW	B	Depth				
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											

\* See measurement key on reverse side.





NOT applicable



<b>WATERSHED</b>  Name: _____ Municipality: _____ County: _____	<b>FORM COMPLETED BY</b>  Name: _____ Telephone: _____ Date: _____
---	--

SITE	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-
<b>Types of Water Quality Problems</b>												
High Community Tolerance												
High Temperature												
High Turbidity												
Hydrocarbon Pollution												
Low Community Diversity												
Low Dissolved Oxygen												
Low pH												
Nutrient Enrichment												
Poor Habitat												
Other/Explanation Line No.												
<b>Potential Cause(s)</b>												
Agriculture												
Construction Site												
Erosion												
Lake Discharge												
STP Outfall												
Other/Explanation Line No.												
<b>Frequency</b>												
Year Most Recent Occurrence												
Year First Known Occurrence												
<b>Source of Information</b>												
BWA Streamwatch												
County Water Quality Study												
Driveby												
UCCD Complaint Investigation												
Other/Explanation Line No.												

**EXPLANATION LINES**

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

WATERSHED Name: <u>Stony Creek River</u> Municipality: <u>Indian Lake Board</u> County: <u>SOMERS SET</u>	FORM COMPLETED BY <u>Ray Peterson &amp;</u> Name: <u>Harry Hyslop</u> Telephone: <u>847548130</u> Date: <u>6-10-07</u>	Before Filling Out Form, See Instructions On Back  For County Use:
--	--	---

MAP NO. *	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-
<b>Types of Storm Water Problems</b>																
Flooding																
Accelerated Erosion																
Sedimentation																
Landslide																
Groundwater																
Water Pollution																
Other (Explain)																
Explanation Line No.																
<b>Cause (s)</b>																
Storm Water Volume																
Storm Water Velocity																
Storm Water Direction																
Water Obstruction																
Other (Explain)																
Explanation Line No.																
<b>Frequency</b>																
Year Most Recent Occurred																
Year First Known Occurred																
<b>Regularity</b>																
More Than 1 Year																
Less Than 1 Year																
Only During Agnes																
<b>Duration (If Applicable)</b>																
Less Than 1 Day																
1 Day + (Enter Days)																
<b>Property Damage</b>																
Loss of Life/Vital Services																
Private																
More Than One Owner																
Types of Properties																
Number of Properties																
Public (List Types)																
Explanation Line No.																
<b>Solutions</b>																
Suggested																
Explanation Line No.																
Formally Proposed																
Explanation Line No.																

\* Include Map ID No. if found on any other form listing proposed facilities.

EXPLANATION LINE(S)

1) WE HAVE NO PAST OR CURRENT STORM WATER PROBLEMS

2) \_\_\_\_\_

3) THAT IS KNOWN AT THIS TIME

4) \_\_\_\_\_

5) \_\_\_\_\_

6) \_\_\_\_\_

7) \_\_\_\_\_

8) \_\_\_\_\_







WATERSHED		FORM COMPLETED BY					Before Filling Out Form, See Instructions On Back				
Name: <u>Stonycreek River</u>		Name: <u>Robert T. Pyle</u>					For County Use:				
Municipality: <u>Indian Lake Boro</u>		Telephone: <u>814-754-8387</u>									
County: <u>Somerset</u>		Date: <u>August 9, 2005</u>									
MAP NO. *	A-1	A-2	A-	A-	A-	A-	A-	A-	A-	A-	A-
<b>Types of Storm Water Problems</b>											
Flooding											
Accelerated Erosion											
Sedimentation											
Landslide											
Groundwater											
Water Pollution											
Other (Explain)											
Explanation Line No. (On Back)											
<b>Cause (s)</b>											
Storm Water Volume											
Storm Water Velocity											
Storm Water Direction											
Water Obstruction											
Other (Explain)											
Explanation Line No. (On Back)											
<b>Frequency</b>											
Year Most Recent Occurred											
Year First Known Occurred											
<b>Regularity</b>											
More Than 1 Year											
Less Than 1 Year											
Only During Agnes											
<b>Duration (If Applicable)</b>											
Less Than 1 Day											
1 Day + (Enter Days)											
<b>Property Damage</b>											
Loss of Life/Vital Services											
Private											
More Than One Owner											
Types of Properties											
Number of Properties											
Public (List Types)											
Explanation Line No. (On Back)											
<b>Solutions</b>											
Suggested											
Explanation Line No. (On Back)											
Formally Proposed											
Explanation Line No. (On Back)											

\* Include Map ID No. if found on any other form listing proposed facilities.













CONSERVATION DISTRICT  
 COLUMBIAN COUNTY

AUG 10 2005

RECEIVED

FORM DESCRIPTION SUMMARY  
 ACT 167 WATERSHED STORMWATER MANAGEMENT PLAN

Form	Symbol	Description	Types of Examples	Sources of Information
A		<b>Stormwater Problem Areas</b>	Flooding, Drainage, Erosion/Sedimentation	Existing studies or reports, Township Documentation, Personal memory, Township engineer
B		<b>Obstructions</b>	Bridges, Culverts, Fill, Structures	Owner or structure, township files, subdivision applications, roadmaster, township engineer
C		<b>Existing Flood Control Projects</b>	Channel excavation, rip rap, floodwalls, etc.	Township records, township engineer, owner of facility
D		<b>Proposed Flood Control Projects</b>	Channel excavation, rip rap, floodwalls, etc.	Township records, township engineer, owner of facility
E		<b>Existing Stormwater Control Facilities</b>	Detention basins, recharge basins, roof-top storage	Subdivision files, township engineer, owner of facility
F		<b>Proposed Stormwater Control Facilities</b>	Detention basins, recharge basins, roof-top storage	Subdivision files, township engineer, owner of facility
G		<b>Existing Stormwater Collection Systems</b>	Storm sewers, man-made channels, diversions	Existing plans, township engineer, owner of system
H		<b>Proposed Stormwater Collection Systems</b>	Storm sewers, man-made channels, diversions	Existing plans, township engineer, owner of system
I		<b>Present &amp; Projected Development in Flood Hazard Areas</b>	Subdivision / site plans	Flood Insurance Studies, Subdivision / Site Plans, General knowledge, Township engineer, Private flood studies
J		<b>Water Quality Problem Areas</b>	Construction sites, agriculture	Municipalities, Conservation District



**FORM D - PROPOSED FLOOD CONTROL PROJECT**SHEET 1 OF 1

WATERSHED		FORM COMPLETED BY		TYPICAL TYPES OF FLOOD CONTROL PROJECTS			
Name:	<u>Stonycreek River</u>	Name:	<u>Robert T. Pyle</u>	Channel Excavation / Widening Channel Realignment Rock Riprap	Levee Gabions Pipe Channel	Dams Floodwall Concrete Lining	
Municipality:	<u>Indian Lake Borough</u>	Telephone:	<u>814-754-8387</u>				
County:	<u>Somerset</u>	Date:	<u>August 9, 2005</u>				

For County Use:

Map ID No.	Type of Flood Control Project	Study Phase Begun			Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Flood		Map ID No. Form A*	Owner Name, Address, and Phone
		YES		NO				Frequency Yrs.	Discharge C.F.S.		
		Prelim.	Final								
D- 1	Replace sluice gate	Yes			2008					A1	Indian Lake Borough 1301 Causeway Drive Central City, PA 15926 814-754-8161
D- 2	Embankment works modification/remediation	Yes			2008					A1	Indian Lake Borough 1301 Causeway Drive Central City, PA 15926 814-754-8161
D-											
D-											
D-											
D-											
D-											

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.





**FORM F - PROPOSED STORM WATER CONTROL FACILITIES**

SHEET 1 OF 1

<b>WATERSHED</b>	<b>FORM COMPLETED BY</b>	<b>DEFINITION</b>
Name: <u>Stonycreek River</u>	Name: <u>Robert T. Pyle</u>	Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.
Municipality: <u>Indian Lake Borough</u>	Telephone: <u>814-754-8387</u>	
County: <u>Somerset</u>	Date: <u>August 9, 2005</u>	

For County Use:

Map ID No.	Type of Storm Water Control Facility	Proposed Constr. Dates		Map No. Form A*	Contact Person Name, Address and Phone	Comments
		Start	End			
F- 1	Raising Dam by 4 feet	2008		A1	Indian Lake Borough, Harry Huzsek 1301 Causeway Dr. 814-754-8161	The flood plain around the dam will raise to an elevation of 1196 feet. This will put approximately 100 homes on the flood plain. The DEP is requiring the dam to be capt with 4 feet of concrete. Will FEMA notify the home owners and cover the houses with insurance.
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

**TYPICAL TYPES OF STORM WATER CONTROL FACILITIES**

- |  |  |
|--|--|
| Detention / Retention Basin<br>Natural Pond or Wetland<br>Parking Lot Pondling | Roof-Top Storage<br>Semi-Pervious Paving<br>Infiltration Device (Seepage / Recharge Basin or Underground Tank) |
|--|--|





FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

WATERSHED  
Name: Stonycreek River  
Municipality: Indian Lake Boro  
County: Somerset

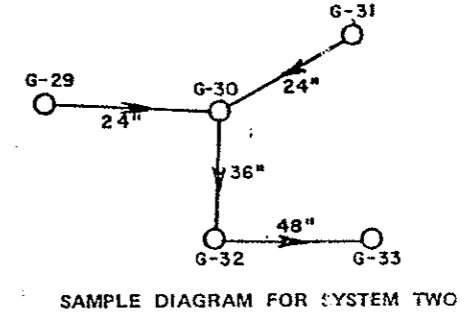
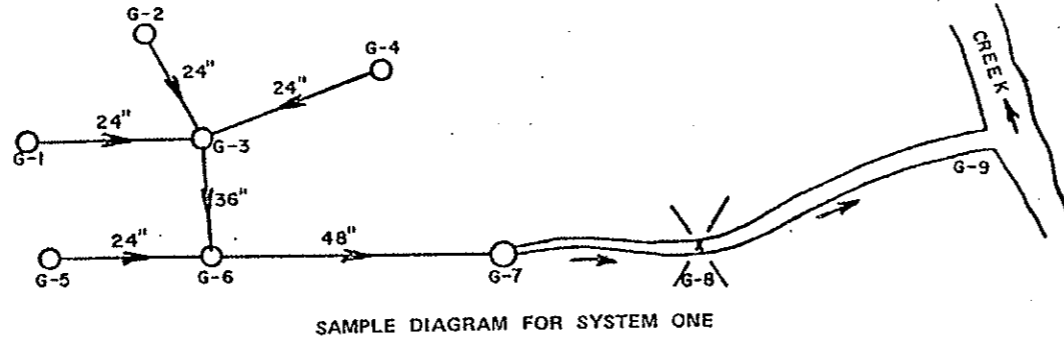
FORM COMPLETED BY  
Name: Robert T. Pyle  
Telephone: 814-754-8387  
Date: August 9, 2005

INSTRUCTIONS  
Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3). Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *			Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale						
						TW	B	Depth				
G-	G-	N/A										
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											

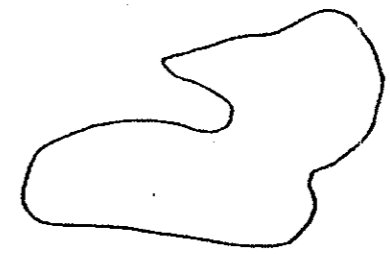
\* See measurement key on reverse side.

Measurement Key	
D	= Diameter
TW	= Top Width
B	= Bottom Width



SAMPLE FORM (System One Only)

WATERWAY		FORM COMPLETED BY		INVESTIGATOR		
Name	Address	Name	Address	Name	Address	
City	State	City	State	City	State	
County	Zip	City	State	City	State	
Date		Date		Date		
Line No.	Station	Material	Year	Notes	Remarks	
D1	D1	24"	1978	Yes	John Doe 123-4567	Borough of ABC
G2	G2	24"	1978	Yes	John Doe 123-4567	Borough of ABC
G4	G2	24"	1978	Yes	John Doe 123-4567	Borough of ABC
G3	G8	36"	1978	Yes	John Doe 123-4567	Borough of ABC
G6	G6	24"	1978	Yes	John Doe 123-4567	Borough of ABC
G8	G7	48"	1978	Yes	John Doe 123-4567	Borough of ABC
G1	G4	64"	1980	Yes	John Doe 123-4567	Borough of ABC
G8	G8	64"				Borough of ABC
D	D					
S	D					
D	D					



Outline known areas where construction exists but construction data is unavailable.



FORM H - PROPOSED STORM WATER COLLECTION SYSTEMS

WATERSHED  
Name: Stonycreek River  
Municipality: Indian Lake  
County: Somerset

FORM COMPLETED BY  
Name: Robert T. Pyle  
Telephone: 814-754-8387  
Date: August 9, 2005

INSTRUCTIONS

On the map for proposed storm water collection systems, diagram each proposed system. Indicate a map point to show changes in system elements, pipe size, pipe direction and connections to existing systems. For proposed additions to existing systems, diagram only the additions and their connection point into the existing system. Complete a separate form for each proposed new system and one for each existing system having one or more proposed additions. Identify the points within a system consecutively (ex. H-1, H-2, H-3). Start the first point in each additional system 20 numbers higher (if H-3 ends one system, begin the next with H-23). Be sure to show the point where proposed additions connect into existing systems, using the map point number from the existing system form and map. See Sample Diagrams and Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *				Material	Map I.D. Nos.** Form A	Proposed Const. Dates		Design Data Avail.	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Open Channel / Swale					Start	End			
						TW	B	Depth							
H- 1	H- 1	X	X		3'					A1			2008	Robert T. Pyle 814-754-8387	Indian Lake Borough
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														

\* See measurement key on reverse side. \*\* Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.







<b>WATERSHED</b> Name: <u>Stonycreek River</u> Municipality: <u>Indian Lake Borough</u> County: <u>Somerset</u>	<b>FORM COMPLETED BY</b> Name: <u>Robert T. Pyle</u> Telephone: <u>814-754-8387</u> Date: <u>August 9, 2005</u>
--	--

SITE	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-
<b>Types of Water Quality Problems</b>												
High Community Tolerance	N/A											
High Temperature												
High Turbidity												
Hydrocarbon Pollution												
Low Community Diversity												
Low Dissolved Oxygen												
Low pH												
Nutrient Enrichment												
Poor Habitat												
Other/Explanation Line No.												
<b>Potential Cause(s)</b>												
Agriculture												
Construction Site												
Erosion												
Lake Discharge												
STP Outfall												
Other/Explanation Line No.												
<b>Frequency</b>												
Year Most Recent Occurrence												
Year First Known Occurrence												
<b>Source of Information</b>												
BWA Streamwatch												
County Water Quality Study												
Driveby												
UCCD Complaint Investigation												
Other/Explanation Line No.												

**EXPLANATION LINES**

1
2
3
4
5
6
7
8
9
10

WATERSHED		FORM COMPLETED BY					Before Filling Out Form, See Instructions On Back									
Name:		Name: <u>D.J. RYAN</u>					For County Use:									
Municipality: <u>Georgetown Boro</u>		Telephone: <u>260-4391</u>														
County: <u>Cambria</u>		Date: <u>6-17-03</u>														

MAP NO. *	A-1	A-2	A-3	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-
<u>Types of Storm Water Problems</u>																
Flooding																
Accelerated Erosion	✓	✓	✓													
Sedimentation	✓	✓	✓													
Landslide																
Groundwater																
Water Pollution																
Other (Explain)																
Explanation Line No.																
<u>Cause (s)</u>																
Storm Water Volume	✓	✓	✓													
Storm Water Velocity	✓	✓	✓													
Storm Water Direction			✓													
Water Obstruction	✓															
Other (Explain)																
Explanation Line No.	2+2															
<u>Frequency</u>																
Year Most Recent Occurred	03	03	03													
Year First Known Occurred	95															
<u>Regularity</u>																
More Than 1 Year	✓	✓	✓													
Less Than 1 Year																
Only During Agnes																
<u>Duration (If Applicable)</u>																
Less Than 1 Day																
1 Day + (Enter Days)																
<u>Property Damage</u>																
Loss of Life/Vital Services																
Private																
More Than One Owner																
Types of Properties																
Number of Properties																
Public (List Types)																
Explanation Line No.																
<u>Solutions</u>																
Suggested	✓	✓	✓													
Explanation Line No.	3	3	3													
Formally Proposed																
Explanation Line No.																

\* Include Map ID No. if found on any other form listing proposed facilities.

- EXPLANATION LINE(S)
- 1) RIP RAFF ON LOWER SIDE OF BRIDGE CAUSES SEDIMENTATION TO
  - 2) BUILD UP UNDER BRIDGE
  - 3) POSSIBLY DETENTION POND
  - 4) REF
  - 5)
  - 6)
  - 7)
  - 8)
- JUN 18 2003





# BOROUGH OF FERNDALE

109 STATION STREET  
JOHNSTOWN, PA 15905  
PHONE: 814-288-1771 FAX: 814-288-5910

## Memorandum

To: ROBB PIPER  
From: BEVERLY  
Subject: DOCUMENTS

Date: JULY 12, 2005

DEAR MR. PIPER

YOU WILL FIND ENCLOSED OUR COMPLETED DOCUMENTS PER YOUR REQUEST.

YOU MAY CALL BRIAN AT 814-288-0472 IF THERE ARE ANY QUESTIONS. NORMAL HOURS ARE 7:00 A.M. - 11:30 A.M. - 12:30 P.M. - 3:00 P.M., MONDAY THROUGH FRIDAY.

SINCERELY



BEVERLY E. ROTH

ENCLOSURE



<b>WATERSHED</b>		<b>FORM COMPLETED BY</b>			Before Filling Out Form, See Instructions On Back		
Name:		Name: <u>BRIAN McATEER</u>			For County Use:		
Municipality: <u>FERRISLE BOBO</u>		Telephone: <u>814-288-0422</u>					
County: <u>CAMBRIA</u>		Date: <u>2-1-05</u>					

MAP NO. *	A-1	A-2	A-3	A-4	A-5	A-	A-	A-	A-	A-	A-
<b>Types of Storm Water Problems</b>											
Flooding											
Accelerated Erosion	X										
Sedimentation											
Landslide	X										
Groundwater											
Water Pollution											
Other (Explain)											
Explanation Line No. (On Back)											
<b>Cause (s)</b>											
Storm Water Volume											
Storm Water Velocity											
Storm Water Direction											
Water Obstruction											
Other (Explain)											
Explanation Line No. (On Back)	1										
<b>Frequency</b>											
Year Most Recent Occurred	2005										
Year First Known Occurred	?										
<b>Regularity</b>											
More Than 1 Year											
Less Than 1 Year	✓										
Only During Agnes											
<b>Duration (If Applicable)</b>											
Less Than 1 Day											
1 Day + (Enter Days)		✓									
<b>Property Damage</b>											
Loss of Life/Vital Services											
Private											
More Than One Owner											
Types of Properties											
Number of Properties											
Public (List Types)			✓								
Explanation Line No. (On Back)											
<b>Solutions</b>											
Suggested				✓							
Explanation Line No. (On Back)											
Formally Proposed											
Explanation Line No. (On Back)					✓						

\* Include Map ID No. if found on any other form listing proposed facilities.

A-1 - BASIN DRAINING OVER HILLSIDE

A-2 WHENEVER IT RAINS

A-3 ROAD CLOSED PERIODICALLY

A-4 PIPE IT OVER THE HILL TO AN EXISTING BASIN

A-5 STATE MET WITH US 6-24-05 CONCERNING  
THIS PROBLEM - NO SOLUTION AS YET.



109 STATION STREET  
JOHNSTOWN, PA 15905

PHONE NO. 814-288-1771  
FAX NO. 814-288-5910

F A X M E S S A G E

TO: Cambria Co Cons. District

FROM: Beverly

DATE: 6-18-03

TIME: 2:13 pm

TOTAL PAGES (INCLUDING COVER): 2

SUBJECT: Act 167 Survey Jan



FORM A - STORM WATER PROBLEM AREAS

SHEET 1 OF 1

WATERSHED

FORM COMPLETED BY

Before Filling Out Form.  
See Instructions On Back

Name: Stony Creek River  
Municipality: Ferndale Borough  
County: Cambria

Name: William Cozart  
Telephone: 814-288-1771  
Date: 6-17-2003

For County Use:

MAP NO. *	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-
Types of Storm Water Problems																
Flooding																
Accelerated Erosion																
Sedimentation																
Landslide																
Groundwater																
Water Pollution																
Other (Explain)																
Explanation Line No.																
Cause (s)																
Storm Water Volume																
Storm Water Velocity																
Storm Water Direction																
Water Obstruction																
Other (Explain)																
Explanation Line No.																
Frequency																
Year Most Recent Occurred																
Year First Known Occurred																
Regularity																
More Than 1 Year																
Less Than 1 Year																
Only During Storms																
Duration (If Applicable)																
Less Than 1 Day																
1 Day + (Enter Days)																
Property Damages																
Loss of Life/Vital Services																
Private																
More Than One Owner																
Types of Properties																
Number of Properties																
Public (List Types)																
Explanation Line No.																
Solutions																
Suggested																
Explanation Line No.																
Formally Proposed																
Explanation Line No.																

\* Include Map ID No. if found on any other form listing proposed facilities.

EXPLANATION LINE(S)

- 1) Storm water problems are addressed as they arise and are corrected.
- 2) NO MAJOR STORM WATER PROBLEMS ARE IDENTIFIABLE FOR FERNDALE BOROUGH
- 3)
- 4)
- 5)
- 6)
- 7)
- 8)





FORM D - PROPOSED FLOOD CONTROL PROJECT

SHEET 1 OF 1

WATERSHED		FORM COMPLETED BY		TYPICAL TYPES OF FLOOD CONTROL PROJECTS			
Name:		Name:	<u>BRIAN M. ATEER</u>	Channel Excavation / Widening	Levee	Dams	
Municipality:	<u>FERNDALE BORO</u>	Telephone:	<u>814-288-0432</u>	Channel Realignment	Gabions	Floodwall	
County:	<u>CAMBRIA</u>	Date:	<u>3-1-05</u>	Rock Riprap	Pipe Channel	Concrete Lining	

For County Use:

Map ID No.	Type of Flood Control Project	Study Phase Begun			Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Flood		Map ID No. Form A*	Owner Name, Address, and Phone
		YES		NO				Frequency Yrs.	Discharge C.F.S.		
		Prelim.	Final								
D-	<u>NOT</u>										
D-	<u>APPLICABLE</u>										
D-											
D-											
D-											
D-											
D-											

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.







FORM F - PROPOSED STORM WATER CONTROL FACILITIES

SHEET 1 OF 1

<b>WATERSHED</b>		<b>FORM COMPLETED BY</b>		<b>DEFINITION</b>	
Name: _____		Name: <u>BRIAN McATEER</u>		Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.	
Municipality: <u>FERNDALE BORO</u>		Telephone: <u>814-288-0422</u>			
County: <u>CAMBRIA</u>		Date: <u>2-1-05</u>			

For County Use:

Map ID No.	Type of Storm Water Control Facility	Proposed Constr. Dates		Map No. Form A*	Contact Person Name, Address and Phone	Comments
		Start	End			
F-	<u>NOT</u>					
F-	<u>APPLICABLE</u>					
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

TYPICAL TYPES OF STORM WATER CONTROL FACILITIES

Detention / Retention Basin  
 Natural Pond or Wetland  
 Parking Lot Pondling

Roof-Top Storage  
 Semi-Pervious Paving  
 Infiltration Device (Seepage / Recharge Basin or Underground Tank)







FORM H - PROPOSED STORM WATER COLLECTION SYSTEMS

SHEET 1 OF 1

WATERSHED  
 Name: \_\_\_\_\_  
 Municipality: FERNDALE BORO  
 County: CAMBRIA

FORM COMPLETED BY  
 Name: BRIAN McATEER  
 Telephone: 814-288-0422  
 Date: 3-1-05

INSTRUCTIONS  
 On the map for proposed storm water collection systems, diagram each proposed system. Indicate a map point to show changes in system elements, pipe size, pipe direction and connections to existing systems. For proposed additions to existing systems, diagram only the additions and their connection point into the existing system. Complete a separate form for each proposed new system and one for each existing system having one or more proposed additions. Identify the points within a system consecutively (ex. H-1, H-2, H-3). Start the first point in each additional system 20 numbers higher (if H-3 ends one system, begin the next with H-23 ). Be sure to show the point where proposed additions connect into existing systems, using the map point number from the existing system form and map. See Sample Diagrams and Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *				Material	Map I.D. Nos.** Form A	Proposed Const. Dates		Design Data Avail.	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Open Channel / Swale		Depth			Start	End			
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														

NOT APPLICABLE

\* See measurement key on reverse side. \*\* Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.







WATERSHED

Name:  
 Municipality: FERNDALE BORO  
 County: CAMBRIA

FORM COMPLETED BY

Name: BRIAN McATEER  
 Telephone: 814-288-0422  
 Date: 2-1-05

SITE	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-
<b>Types of Water Quality Problems</b>												
High Community Tolerance												
High Temperature												
High Turbidity												
Hydrocarbon Pollution												
Low Community Diversity												
Low Dissolved Oxygen												
Low pH												
Nutrient Enrichment												
Poor Habitat												
Other/Explanation Line No.												
<b>Potential Cause(s)</b>												
Agriculture												
Construction Site												
Erosion												
Lake Discharge												
STP Outfall												
Other/Explanation Line No.												
<b>Frequency</b>												
Year Most Recent Occurrence												
Year First Known Occurrence												
<b>Source of Information</b>												
BWA Streamwatch												
County Water Quality Study												
Driveby												
UCCD Complaint Investigation												
Other/Explanation Line No.												

NONE

NONE

NONE

EXPLANATION LINES

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

NOT APPLICABLE



**Paul C. Rizzo Associates, Inc.**  
ENGINEERS & CONSULTANTS

August 12, 2005

Project No. 00-2266.31

Mr. Robb Piper  
Cambria County Conservation District  
401 Candlelight Drive, Suite 221  
Ebensburg, PA 15931

**RECEIVED**

**AUG 15 2005**

**CAMBRIA COUNTY  
CONSERVATION DISTRICT**

**TRANSMITTAL  
STONYCREEK RIVER STORMWATER PLAN  
DALE BOROUGH, CAMBRIA COUNTY**

Dear Mr. Piper:

In accordance with your request for information, enclosed is the stormwater forms packet from Dale Borough, Cambria County.

Sincerely yours,  
***Paul C. Rizzo Associates, Inc.***

Mark W. Lazzari  
Watershed/Land Use Planner

MWL/RJF/ljr  
Enclosure

pc: Dale Borough Supervisors

647 MAIN STREET • SUITE 200 • JOHNSTOWN, PA 15901  
L001-2266.31/00      PHONE (814) 536-6767 • FAX (814) 536-6770  
web address: [www.rizzoassoc.com](http://www.rizzoassoc.com) • email: [pcra.johnstown@rizzoassoc.com](mailto:pcra.johnstown@rizzoassoc.com)

PITTSBURGH, PA (CORP. HQ)      COLUMBIA, SC      COLUMBUS, OH      WALDWICK, NJ  
BUENOS AIRES, ARGENTINA      ST. PETERSBURG, RUSSIA      PLZEN, CZECH REPUBLIC



WATERSHED

Name: Solomon Run  
 Municipality: Dale Boro  
 County: Cambria

FORM COMPLETED BY

Name: Mark W. Lazzari  
 Telephone: 814-536-6767  
 Date: \_\_\_\_\_

Before Filling Out Form,  
 See Instructions On Back

For County Use:

MAP NO. *	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-
<b>Types of Storm Water Problems</b>												
Flooding												
Accelerated Erosion												
Sedimentation												
Landslide												
Groundwater												
Water Pollution												
Other (Explain)												
Explanation Line No. (On Back)												
<b>Cause (s)</b>												
Storm Water Volume												
Storm Water Velocity												
Storm Water Direction												
Water Obstruction												
Other (Explain)												
Explanation Line No. (On Back)												
<b>Frequency</b>												
Year Most Recent Occurred												
Year First Known Occurred												
<b>Regularity</b>												
More Than 1 Year												
Less Than 1 Year												
Only During Agnes												
<b>Duration (If Applicable)</b>												
Less Than 1 Day												
1 Day + (Enter Days)												
<b>Property Damage</b>												
Loss of Life/Vital Services												
Private												
More Than One Owner												
Types of Properties												
Number of Properties												
Public (List Types)												
Explanation Line No. (On Back)												
<b>Solutions</b>												
Suggested												
Explanation Line No. (On Back)												
Formally Proposed												
Explanation Line No. (On Back)												

N/A

\* Include Map ID No. if found on any other form listing proposed facilities.



WATERSHED

Name: Stony Creek River  
 Municipality: Dale Boro  
 County: Cambria

FORM COMPLETED BY

Name: Mark W. Lazzari  
 Telephone: 814-536-6767  
 Date: \_\_\_\_\_

Before Filling Out Form,  
 See Instructions On Back

For County Use:

MAP NO. *	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-
<b>Types of Storm Water Problems</b>												
Flooding												
Accelerated Erosion												
Sedimentation												
Landslide												
Groundwater												
Water Pollution												
Other (Explain)												
Explanation Line No. (On Back)												
<b>Cause (s)</b>												
Storm Water Volume												
Storm Water Velocity												
Storm Water Direction												
Water Obstruction												
Other (Explain)												
Explanation Line No. (On Back)												
<b>Frequency</b>												
Year Most Recent Occurred												
Year First Known Occurred												
<b>Regularity</b>												
More Than 1 Year												
Less Than 1 Year												
Only During Agnes												
<b>Duration (If Applicable)</b>												
Less Than 1 Day												
1 Day + (Enter Days)												
<b>Property Damage</b>												
Loss of Life/Vital Services												
Private												
More Than One Owner												
Types of Properties												
Number of Properties												
Public (List Types)												
Explanation Line No. (On Back)												
<b>Solutions</b>												
Suggested												
Explanation Line No. (On Back)												
Formally Proposed												
Explanation Line No. (On Back)												

NA

\* Include Map ID No. if found on any other form listing proposed facilities.





FORM D - PROPOSED FLOOD CONTROL PROJECT

SHEET 1 OF 1

WATERSHED		FORM COMPLETED BY		TYPICAL TYPES OF FLOOD CONTROL PROJECTS					
Name: <u>Solomon Run</u>		Name: <u>Mark W. Lazzari</u>		Channel Excavation / Widening		Levee		Dams	
Municipality: <u>Dale Boro</u>		Telephone: <u>814-536-6767</u>		Channel Realignment		Gabions		Floodwall	
County: <u>Cambria</u>		Date: _____		Rock Riprap		Pipe Channel		Concrete Lining	

For County Use:

Map ID No.	Type of Flood Control Project	Study Phase Begun			Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Flood		Map ID No. Form A*	Owner Name, Address, and Phone
		YES		NO				Frequency Yrs.	Discharge C.F.S.		
		Prelim.	Final								
D-											
D-											
D-											
D-											
D-											
D-											
D-											

N/A

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.





FORM F - PROPOSED STORM WATER CONTROL FACILITIES

SHEET 1 OF 1

WATERSHED		FORM COMPLETED BY		DEFINITION Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.
Name:	<u>Solomon Run</u>	Name:	<u>Mark W. Lazzari</u>	
Municipality:	<u>Dale Boro</u>	Telephone:	<u>814-536-6767</u>	
County:	<u>Cambria</u>	Date:		

For County Use:

Map ID No.	Type of Storm Water Control Facility	Proposed Constr. Dates		Map No. Form A*	Contact Person Name, Address and Phone	Comments
		Start	End			
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						

NA

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

TYPICAL TYPES OF STORM WATER CONTROL FACILITIES

- |                             |  |
|-----------------------------|--|
| Detention / Retention Basin | Roof-Top Storage   |
| Natural Pond or Wetland     | Semi-Pervious Paving   |
| Parking Lot Pondling        | Infiltration Device (Seepage / Recharge Basin or Underground Tank) |





FORM I - PRESENT & PROJECTED DEVELOPMENT IN THE FLOOD HAZARD AREA

SHEET 1 OF 1

WATERSHED  
 Name: Solomon Run  
 Municipality: Dale Boro  
 County: Cambria

FORM COMPLETED BY  
 Name: Mark W. Lazzari  
 Telephone: 814-536-6767  
 Date: \_\_\_\_\_

DEFINITION  
 FLOOD HAZARD AREA:  
 A NORMALLY DRY LAND AREA THAT HAS BEEN OR IS  
 SUSCEPTABLE TO BEING INUNDATED BY THE  
 100-YEAR FLOOD.

For County Use:

Map ID No.	TYPE OF DEVELOPMENT	Year Built	Contact Person Name, Address and Phone	Comments
I-				
I-				
I-				
I-				
I-				
I-				
I-				
I-				
I-				
I-				

NA





WATERSHED

Name: Solomon Run  
 Municipality: Dale Boro  
 County: Cambria

FORM COMPLETED BY

Name: Mark W. Lazzari  
 Telephone: 814-536-6767  
 Date: \_\_\_\_\_

SITE

J- J- J- J- J- J- J- J- J- J- J- J-

**Types of Water Quality Problems**

- High Community Tolerance
- High Temperature
- High Turbidity
- Hydrocarbon Pollution
- Low Community Diversity
- Low Dissolved Oxygen
- Low pH
- Nutrient Enrichment
- Poor Habitat
- Other/Explanation Line No.

NA

**Potential Cause(s)**

- Agriculture
- Construction Site
- Erosion
- Lake Discharge
- STP Outfall
- Other/Explanation Line No.

**Frequency**

- Year Most Recent Occurrence
- Year First Known Occurrence

**Source of Information**

- BWA Streamwatch
- County Water Quality Study
- Driveby
- UCCD Complaint Investigation
- Other/Explanation Line No.

EXPLANATION LINES

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

# Memorandum

---

**To:** WPAC Committee Member  
**From:** Robb Piper, Cambria County Conservation District  
**Date:** May 28, 2003  
**Subject:** Stonycreek River Stormwater Problem Areas

---

RECEIVED

JUN 28 2003

CAMBRIA COUNTY  
CONSERVATION DISTRICT

Dear WPAC Committee Member;

As part of the Phase I, Scope of Study, for the Stonycreek River Watershed ACT 167 Stormwater Management Plan, each municipality is asked to supply information related to stormwater problems within their municipality for the study watersheds. This information will be utilized in the Scope of Study to assist in describing stormwater problems within the watershed. Attached you will find Form A, Stormwater Problem Areas, a map of the portion of your municipality which lies within the study watershed area, and instruction on how to fill out this form. **Please use this material to locate and describe the problem areas within your municipality which relate to these watersheds and return these forms to the Cambria County Conservation District, 401 Candlelight Drive, Suite 221, Ebensburg, PA 15931 NO LATER THAN JUNE 18, 2003.** Should you have any questions on how to fill out this form, please feel free to contact Terry Ostrowski of Borton-Lawson Engineering at (570)821-1994, ext. 241. Your assistance is greatly appreciated.

Sincerely;

Robb Piper, Director  
Cambria County Conservation District

# HOW TO FILL OUT FORM

## GENERAL

The form in this packet is intended to document existing stormwater related issues within the municipality. A map has been provided along with the data collection form that is to be used to locate the features described in the forms. Each feature on the map should be identified with a symbol (shown in upper left corner of form) and an identification number (i.e. A-1, A-2, etc) which matches the number of the area being described on the form.

## FORM A, STORMWATER PROBLEM AREAS

- The intent of this form is to identify any problem areas (areas that flood frequently such as stream banks, roads, any landslides or turbid problems), for that part of your municipality that is in the Stonycreek River Watershed. For some of you that may just be several streets, for others that may be the entire municipality.
- For the (Map No. , A- , A-) line you will identify your problem sites by numbering them, starting with #1, so if you have 3 problem sites you should put 1, 2 and 3 like this: A-1, A-2, A-3.
- Once you number the problem area, check (√) the information in that column that applies to the problem area so that:

Map No.	A-1	A-	A-
Types of Stormwater Problems			
Flooding	√		
Accelerated Erosion			
Sedimentation			
Landslide	√		
Etc.	etc.	etc.	etc.

The above example indicates that problem area A-1 has flooding and landslide problems.

- Locate the problem areas on the attached map by putting a dot with A-1 next to it. Continue for all sites you identified. If there are no problem areas in your municipality put not applicable and go to the next form.

<b>WATERSHED</b> Name: Municipality: <u>CODEMANUGH TWP</u> County: <u>LAMBRIA</u>	<b>FORM COMPLETED BY</b> Name: <u>Bethi STAFFORD</u> Telephone: <u>814-539-6297</u> Date: <u>6-19-03</u>	Before Filling Out Form, See Instructions On Back  For County Use:
--	---	---

MAP NO. *	A-1	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-
<b>Types of Storm Water Problems</b>															
Flooding															
Accelerated Erosion	✓														
Sedimentation															
Landslide															
Groundwater															
Water Pollution															
Other (Explain)															
Explanation Line No.															
<b>Cause (s)</b>															
Storm Water Volume															
Storm Water Velocity															
Storm Water Direction															
Water Obstruction															
Other (Explain)															
Explanation Line No.															
<b>Frequency</b>															
Year Most Recent Occurred															
Year First Known Occurred															
<b>Regularity</b>															
More Than 1 Year															
Less Than 1 Year															
Only During Agnes															
<b>Duration (If Applicable)</b>															
Less Than 1 Day															
1 Day + (Enter Days)															
<b>Property Damage</b>															
Loss of Life/Vital Services															
Private															
More Than One Owner															
Types of Properties															
Number of Properties															
Public (List Types)															
Explanation Line No.															
<b>Solutions</b>															
Suggested															
Explanation Line No.															
Formally Proposed															
Explanation Line No.															

\* Include Map ID No. if found on any other form listing proposed facilities.

- EXPLANATION LINE(S)
- 1) \_\_\_\_\_
  - 2) \_\_\_\_\_
  - 3) \_\_\_\_\_
  - 4) \_\_\_\_\_
  - 5) \_\_\_\_\_
  - 6) \_\_\_\_\_
  - 7) \_\_\_\_\_
  - 8) \_\_\_\_\_



August 18, 2005

Cambria County Conservation District  
401 Candlelight Drive, Suite 221  
Ebensburg, PA 15931

ATTN: Robb Piper

**STONYCREEK ACT 167 PLAN  
STORMWATER MANAGEMENT**

Dear Robb,

On behalf of the Conemaugh Township Supervisors of Cambria County, we have completed the forms for the Stormwater Management Plan received at the Phase II Meeting on June 22, 2005. The completed forms are enclosed with this memo as well as a map of the portion of Conemaugh Township contributing to the Stonycreek Watershed.

If you have any questions or concerns, please contact us at (814) 445-6551.

THE EADS GROUP, INC. (Somerset)



By: Jeffrey S. Haynal, E.I.T.

cc: File # 2001-G-01  
Central File  
John Peschock,  
Steve Sewalk

Somserv/JeffH/CTS-Cam/Act 167 Cover Letter

**RECEIVED**

**AUG 19 2005**

**CAMBRIA COUNTY  
CONSERVATION DISTRICT**



<b>WATERSHED</b>		<b>FORM COMPLETED BY</b>				<b>Before Filling Out Form, See Instructions On Back</b>					
Name: <u>STONY CREEK</u>		Name: <u>JEFF HAYNAL</u>				For County Use:					
Municipality: <u>CONEMAUGH TWP</u>		Telephone: <u>814-445-6551</u>									
County: <u>CAMBRIA</u>		Date: <u>8/17/2005</u>									

MAP NO. *	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-
<b>Types of Storm Water Problems</b>												
Flooding												
Accelerated Erosion	✓											
Sedimentation												
Landslide												
Groundwater												
Water Pollution												
Other (Explain)												
Explanation Line No. (On Back)												
<b>Cause (s)</b>												
Storm Water Volume	✓											
Storm Water Velocity												
Storm Water Direction												
Water Obstruction												
Other (Explain)												
Explanation Line No. (On Back)												
<b>Frequency</b>												
Year Most Recent Occurred	2004											
Year First Known Occurred	2001											
<b>Regularity</b>												
More Than 1 Year												
Less Than 1 Year	✓	LESS THAN ONCE PER YEAR										
Only During Agnes												
<b>Duration (if Applicable)</b>												
Less Than 1 Day	✓											
1 Day + (Enter Days)												
<b>Property Damage</b>												
Loss of Life/Vital Services												
Private												
More Than One Owner												
Types of Properties												
Number of Properties												
Public (List Types)												
Explanation Line No. (On Back)												
<b>Solutions</b>												
Suggested												
Explanation Line No. (On Back)	1											
Formally Proposed												
Explanation Line No. (On Back)												

\* Include Map ID No. if found on any other form listing proposed facilities.









FORM D - PROPOSED FLOOD CONTROL PROJECT

SHEET 4 OF 10

WATERSHED		FORM COMPLETED BY		TYPICAL TYPES OF FLOOD CONTROL PROJECTS					
Name: <u>STONYCREEK</u>	Name: <u>JEFF HAYNAL</u>			Channel Excavation / Widening	Levee	Dams			
Municipality: <u>CONEMAUGH TWP</u>	Telephone: <u>814-445-6551</u>						Channel Realignment	Gabions	Floodwall
County: <u>CAMBRIA</u>	Date: <u>8/17/2005</u>						Rock Riprap	Pipe Channel	Concrete Lining

For County Use:

Map ID No.	Type of Flood Control Project	Study Phase Begun			Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Flood		Map ID No. Form A*	Owner Name, Address, and Phone
		YES		NO				Frequency Yrs.	Discharge C.F.S.		
		Prelim.	Final								
D-	<i>NOT APPLICABLE</i>										
D-											
D-											
D-											
D-											
D-											
D-											

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.





FORM F - PROPOSED STORM WATER CONTROL FACILITIES

SHEET 6 OF 10

<b>WATERSHED</b>		<b>FORM COMPLETED BY</b>		<b>DEFINITION</b>  Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.
Name: <u>STONY CREEK</u>		Name: <u>JEFF HAYNAL</u>		
Municipality: <u>CONEMAUGH TWP</u>		Telephone: <u>814-445-6551</u>		
County: <u>CAMBRIA</u>		Date: <u>8/17/2005</u>		

For County Use:

Map ID No.	Type of Storm Water Control Facility	Proposed Constr. Dates		Map No. Form A*	Contact Person Name, Address and Phone	Comments
		Start	End			
F-	NOT APPLICABLE					
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

TYPICAL TYPES OF STORM WATER CONTROL FACILITIES

- |                             |  |
|-----------------------------|--|
| Detention / Retention Basin | Roof-Top Storage   |
| Natural Pond or Wetland     | Semi-Pervious Paving   |
| Parking Lot Pondling        | Infiltration Device (Seepage / Recharge Basin or Underground Tank) |





FORM H - PROPOSED STORM WATER COLLECTION SYSTEMS

SHEET 8 OF 10

WATERSHED  
 Name: STONYCREEK  
 Municipality: CONVAUGH TWP  
 County: CAMBRIA

FORM COMPLETED BY  
 Name: JEFF HAYNAL  
 Telephone: 814-445-6551  
 Date: 8/17/2005

INSTRUCTIONS  
 On the map for proposed storm water collection systems, diagram each proposed system. Indicate a map point to show changes in system elements, pipe size, pipe direction and connections to existing systems. For proposed additions to existing systems, diagram only the additions and their connection point into the existing system. Complete a separate form for each proposed new system and one for each existing system having one or more proposed additions. Identify the points within a system consecutively (ex. H-1, H-2, H-3). Start the first point in each additional system 20 numbers higher (if H-3 ends one system, begin the next with H-23). Be sure to show the point where proposed additions connect into existing systems, using the map point number from the existing system form and map. See Sample Diagrams and Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *				Material	Map I.D. Nos. ** Form A	Proposed Const. Dates		Design Data Avail.	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Open Channel / Swale		Depth			Start	End			
H-	H-	NOT	APPLICABLE												
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														

\* See measurement key on reverse side. \*\* Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.





WATERSHED

FORM COMPLETED BY

Name: STONYCREEK  
 Municipality: CONEMAUGH TWP.  
 County: CAMBRIA

Name: JEFF HAYNAL  
 Telephone: 814-445-6551  
 Date: 8/17/05

SITE	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-
<b>Types of Water Quality Problems</b>												
High Community Tolerance												
High Temperature												
High Turbidity												
Hydrocarbon Pollution												
Low Community Diversity												
Low Dissolved Oxygen												
Low pH												
Nutrient Enrichment												
Poor Habitat												
Other/Explanation Line No.												
<b>Potential Cause(s)</b>												
Agriculture												
Construction Site												
Erosion												
Lake Discharge												
STP Outfall												
Other/Explanation Line No.												
<b>Frequency</b>												
Year Most Recent Occurrence												
Year First Known Occurrence												
<b>Source of Information</b>												
BWA Streamwatch												
County Water Quality Study												
Driveby												
UCCD Complaint Investigation												
Other/Explanation Line No.												

EXPLANATION LINES

- 1 NOT APPLICABLE - NO SAMPLES HAVE BEEN TAKEN
- 2 OR PLAN TO BE TAKEN
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10



**BOROUGH OF BOSWELL**

331 Center Street  
Boswell, PA 15531

Telephone: 814-629-6121  
Fax: 814-629-6121

June 11, 2003

Terence J. Ostrowski, P.E.  
613 Baltimore Drive, Suite 300  
Wilkes-Barre, PA 18702-7903

RE: Storm Water Problems

Dear Mr. Ostrowski,

We received a copy of your form on storm water problems within our municipality from Cambria-Somerset Council of Governments. We are presently doing a study in our borough and it is being done by Sean Isgan, CME Engineering, 165 East Union St., Somerset, PA 15501, telephone 814-443-3344. You can contact him for the information you need for our borough.

If you have any questions, please call the above number. I am in the office, Wednesdays, 9:00 to 10:00 AM each week.

Thank you for your consideration of this matter.

Sincerely,  
BOROUGH OF BOSWELL

*Connie Knopsnyder*

Connie Knopsnyder  
Borough Secretary

<b>BORTON LAWSON ENGINEERING</b>	
CLB _____	DRY _____
TEL _____	TJO _____
TMM _____	_____
RJM _____	_____
CDM _____	_____
JPG _____	_____
PJE _____	_____
JUN 13 2003	
<input type="checkbox"/> CORRESPONDENCE	
<input type="checkbox"/> AGREEMENT	
<input type="checkbox"/> CONTRACT	
PROJECT NO. _____	

<b>WATERSHED</b> Name: <u>STONYCREEK RIVER</u> Municipality: <u>BERLIN BORO</u> County: <u>SOMERSET</u>		<b>FORM COMPLETED BY</b> Name: <u>JEANNE M. JOHNSON</u> Telephone: <u>(814) 267-4929</u> Date: <u>07-25-05</u>					Before Filling Out Form, See Instructions On Back  For County Use:				
MAP NO. *	A- 1	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-
<b>Types of Storm Water Problems</b>											
Flooding	✓										
Accelerated Erosion											
Sedimentation	✓										
Landslide											
Groundwater											
Water Pollution											
Other (Explain)											
Explanation Line No. (On Back)	1										
<b>Cause (s)</b>											
Storm Water Volume	✓										
Storm Water Velocity											
Storm Water Direction											
Water Obstruction	✓										
Other (Explain)											
Explanation Line No. (On Back)	2										
<b>Frequency</b>											
Year Most Recent Occurred	2004										
Year First Known Occurred	≈1996										
<b>Regularity</b>											
More Than 1 Year	✓										
Less Than 1 Year											
Only During Agnes											
<b>Duration (If Applicable)</b>											
Less Than 1 Day	✓										
1 Day + (Enter Days)											
<b>Property Damage</b>											
Loss of Life/Vital Services											
Private	✓										
More Than One Owner	✓										
Types of Properties	RESID.										
Number of Properties	5										
Public (List Types)											
Explanation Line No. (On Back)	3										
<b>Solutions</b>											
Suggested											
Explanation Line No. (On Back)											
Formally Proposed	✓										
Explanation Line No. (On Back)	4										

\* Include Map ID No. if found on any other form listing proposed facilities.

INSTRUCTIONS

Begin with A.1 as the first map number to identify the first' storm water problem area. Illustrate the defined problem on the watershed map provided, and identify it with its map number.

For each storm water problem area within your municipality, enter the map identification number at the head of the column. Describe the problem by placing a check (4 in the appropriate blocks of the column under this map identification number.

When an additional explanation is required, write the line number(s) used in the column marked "Explanation Line No. (s)". Example 1, 2-3, etc.

If storm water problem occurred during and after Agnes, describe the frequency of the problem after Agnes.

Use the explanation lines to list the types of public property damages, e.g. roadways, hospitals, etc.

Enter the line no. (s) used to list the map ID no. (s) for the proposed facilities.

Definitions

Storm Water Problem Area

An area that defines the farthest extent of a storm water problem, including any area that experiences property damage, inundation, accelerated erosion, surface water pollution, groundwater pollution, landslides, or any other problem as a result of storm water runoff.

Groundwater

Water in the ground below the water table.

Accelerated Erosion

The removal of the surface of the land through the combined action of man's activities and the natural processes at a rate greater than would occur because of the natural process alone.

Sedimentation

The process by which soil or other surface materials, transported by surface water, is deposited on stream bottoms.

Water Obstruction

Any dike, bridge, culvert, wall, wingwall, fill, pier, wharf, embankment, abutment, or other structure located in, along, across, or projecting into any watercourse, floodway, or body of water.

EXPLANATION LINES (continued)

1	48" STORMSEWER OUTFALLS INTO WETLAND AREA WITH LITTLE GRADE. SEDIMENTATION HAS REDUCED CAPACITY OF THE PIPE + OUTFALL CHANNEL. STORM WATER PRODUCED FROM SIGNIFICANT RAIN EVENTS (EX. IVAN + FRANCES IN 2004) CAN NOT BE PROPERLY CONVEYED WHICH RESULTS IN FLOODING.
2	SEDIMENT OBSTRUCTS THE PIPE + OUTFALL AREA. ROAD CURBERS NECESSARY FOR WINTER MAINTENANCE ESPECIALLY FOR PENNDOT ROADWAYS WITHIN THE BOROUGH (BROADWAY, MAIN + DIAMOND STS) CONTRIBUTE TO SEDIMENTATION AT THE OUTFALL. FLOODING THEN OCCURS DURING LARGE STORM EVENTS BECAUSE STORM WATER VOLUME TOO MUCH FOR AVAILABLE CAPACITY.
3	FLOODING IS RESIDENTIAL BASEMENT FLOODING WITHIN THE LOW LYING STEWART ST + SWALLOW ST AREAS.
4	ADDING A 24" HDPE STORMSEWER TO SOUTH SIDE OF STEWART ST WHICH WILL OUTLET TO A PROPOSED 36" HDPE STORMSEWER TO PARALLEL THE EXISTING 48" SS ALONG WILSON DRIVE AND WILL OUTFALL TO THE SAME LOCATION AS THE 48" SS OUTFALL.



WATERSHED		FORM COMPLETED BY					Before Filling Out Form, See Instructions On Back									
Name: <u>STONYCREEK RIVER</u>		Name: <u>KERRY CLAYCOMB</u>					For County Use:									
Municipality: <u>BERLIN BOROUGH</u>		Telephone: <u>814-267-3837</u>														
County: <u>SOMERSET</u>		Date: <u>6-17-03</u>														
MAP NO. *	A-1	A-2	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-
<b>Types of Storm Water Problems</b>																
Flooding	✓	✓														
Accelerated Erosion																
Sedimentation	✓	✓														
Landslide																
Groundwater																
Water Pollution																
Other (Explain)																
Explanation Line No.																
<b>Cause (s)</b>																
Storm Water Volume	✓															
Storm Water Velocity																
Storm Water Direction																
Water Obstruction	✓	✓														
Other (Explain)																
Explanation Line No.																
<b>Frequency</b>																
Year Most Recent Occurred		<u>2003</u>	<u>2003</u>													
Year First Known Occurred		<u>not known</u>	<u>not known</u>													
<b>Regularity</b>																
More Than 1 Year	✓	✓														
Less Than 1 Year																
Only During Agnes																
<b>Duration (If Applicable)</b>																
Less Than 1 Day	✓	✓														
1 Day + (Enter Days)																
<b>Property Damage</b>																
Loss of Life/Vital Services																
Private																
More Than One Owner	✓	✓														
Types of Properties		<u>RESIDENTIAL</u>	<u>AGRICULTURAL</u>													
Number of Properties		<u>4</u>	<u>6</u>													
Public (List Types)																
Explanation Line No.																
<b>Solutions</b>																
Suggested	<u>1</u>	<u>?</u>														
Explanation Line No.	<u>1</u>															
Formally Proposed																
Explanation Line No.																

\* Include Map ID No. if found on any other form listing proposed facilities.

- EXPLANATION LINE(S)
- 1) DRAINAGE DITCHING & REMOVAL OF OBSTRUCTIONS
  - 2)
  - 3)
  - 4)
  - 5)
  - 6)
  - 7)
  - 8)





Phone: (814) 267-3837  
Fax: (814) 267-3017

Berlin was settled in 1768, and incorporated into a town in 1837. It is 2400 feet above sea level and is the most beautifully situated town in Somerset County. "The healthiest place on earth."

# The Borough of Berlin

700 North Street  
Berlin, Somerset County, Pennsylvania 15530

## FAX TRANSMITTAL

**TO:** Terrence J. Ostrowski, P.E.  
**FROM:** Kerry Claycomb  
**SUBJECT:** Storm Water Form  
**DATE:** June 26, 2003

**TOTAL NUMBER OF PAGES INCLUDING THIS SHEET: 2**



FORM A - STORM WATER PROBLEM AREAS

SHEET 1 OF 1

WATERSHED		FORM COMPLETED BY						Before Filling Out Form, See Instructions On Back									
Name: <u>STONY CREEK RIVER</u>		Name: <u>KERRY CLAYCOMB</u>						For County Use:									
Municipality: <u>BERLIN BOROUGH</u>		Telephone: <u>814-267-3837</u>															
County: <u>SOMERSET</u>		Date: <u>6-17-03</u>															
MAP NO. *	A-1	A-2	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	
<b>Types of Storm Water Problems</b>																	
Flooding	✓	✓															
Accelerated Erosion																	
Sedimentation	✓	✓															
Landslide																	
Groundwater																	
Water Pollution																	
Other (Explain)																	
Explanation Line No.																	
<b>Cause (s)</b>																	
Storm Water Volume	✓																
Storm Water Velocity																	
Storm Water Direction																	
Water Obstruction	✓	✓															
Other (Explain)																	
Explanation Line No.																	
<b>Frequency</b>																	
Year Most Recent Occurred		2003	2003														
Year First Known Occurred		not known															
<b>Regularity</b>																	
More Than 1 Year	✓	✓															
Less Than 1 Year																	
Only During Agnes																	
<b>Duration (If Applicable)</b>																	
Less Than 1 Day	✓	✓															
1 Day + (Enter Days)																	
<b>Property Damage</b>																	
Loss of Life/Vital Services																	
Private																	
More Than One Owner	✓	✓															
Types of Properties		RESIDENTIAL	ABSENTEE														
Number of Properties		4	6														
Public (List Types)																	
Explanation Line No.																	
<b>Solutions</b>																	
Suggested		1	?														
Explanation Line No.		1															
Formally Proposed																	
Explanation Line No.																	

\* Include Map ID No. if found on any other form listing proposed facilities.

- EXPLANATION LINE(S)
- 1) DRAINAGE DITCHING & REMOVAL OF OBSTRUCTIONS
  - 2)
  - 3)
  - 4)
  - 5)
  - 6)
  - 7)
  - 8)









FORM D - PROPOSED FLOOD CONTROL PROJECT

SHEET 1 OF 1

WATERSHED

Name: STONYCREEK RIVER  
Municipality: BERLIN BOROUGH  
County: SOMERSET

FORM COMPLETED BY

Name: JEANNE JOHNSON  
Telephone: (614) 267-4929  
Date: 07-25-08

TYPICAL TYPES OF FLOOD CONTROL PROJECTS

Channel Excavation / Widening      Levee      Dams  
Channel Realignment      Gabions      Floodwall  
Rock Riprap      Pipe Channel      Concrete Lining

For County Use:

Map ID No.	Type of Flood Control Project	Study Phase Begun			Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Flood		Map ID No. Form A*	Owner Name, Address, and Phone
		YES		NO				Frequency Yrs.	Discharge C.F.S.		
		Prelim.	Final								
D-	NONE										
D-											
D-											
D-											
D-											
D-											
D-											

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.







FORM F - PROPOSED STORM WATER CONTROL FACILITIES

SHEET 1 OF 1

WATERSHED		FORM COMPLETED BY		DEFINITION Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.
Name:	<u>STONYCREEK RIVER</u>	Name:	<u>JEANNE M. JOHNSON</u>	
Municipality:	<u>BERLIN BOROUGH</u>	Telephone:	<u>(814) 267-4929</u>	
County:	<u>SOMERSET</u>	Date:	<u>07-25-05</u>	

For County Use:

Map ID No.	Type of Storm Water Control Facility	Proposed Constr. Dates		Map No. Form A*	Contact Person Name, Address and Phone	Comments
		Start	End			
F- 1	INFILTRATION DEVICE	7/2005	9/2005	N/A	HAYES LARGE ARCHITECTS (814) 946-0451 PO BOX 1784, ALTOONA, PA 16602	BEING CONSTRUCTED AS PART OF NEW ADDITION TO SCHOOL - COLLECT WATER FROM NEW ADDITION & NEW PARKING LOTS.
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

TYPICAL TYPES OF STORM WATER CONTROL FACILITIES

Detention / Retention Basin	Roof-Top Storage
Natural Pond or Wetland	Semi-Pervious Paving
Parking Lot Pondling	Infiltration Device (Seepage / Recharge Basin or Underground Tank)



FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

WATERSHED  
Name: STONYCREEK RIVER  
Municipality: BERLIN BOROUGH  
County: SOMERSET

FORM COMPLETED BY  
Name: JEANNE M. JOHNSON  
Telephone: (814) 267-4929  
Date: 06-11-05

INSTRUCTIONS  
Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1, G-2, G-3) Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *				Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale		Depth					
						TW	B						
G-121	G-123	X			24"				CPT	UNKNOWN	UNKNOWN	WAYNE HENPERSON 267-4621	BERLIN BROS VALLEY SCHOOL
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												

MAP#/STREET

\* See measurement key on reverse side.





FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

SHEET 1 OF 1 SYSTEM 133 to 134

<b>WATERSHED</b>	<b>FORM COMPLETED BY</b>	<b>INSTRUCTIONS</b> Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3) Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.
Name: <u>STONYCREEK RIVER</u>	Name: <u>JEANNE M. JOHNSON</u>	
Municipality: <u>BERLIN BOROUGH</u>	Telephone: <u>(814) 267-4929</u>	
County: <u>SOMERSET</u>	Date: <u>06-11-05</u>	

Map I.D. No.		System's Elements (x)			Measurements *				Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
					Pipe	Channel / Swale							
From	To	Pipe	Open Channel	Swale	D	TW	B	Depth					
G-133	G-134	X			8"				CPT	REPLACED 2004	NO	KERRY CLAYCOMB (814) 267-3837	BERLIN BOROUGH
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												

MAP # / STREET  
#6 / STADIUM ST.

\* See measurement key on reverse side.



FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

SHEET 1 OF 1 SYSTEM 144 TO 145

WATERSHED  
Name: STONYCREEK RIVER  
Municipality: BERLIN BOROUGH  
County: SOMERSET

FORM COMPLETED BY  
Name: JEANNE M. JOHNSON  
Telephone: (814) 267-4929  
Date: 08-11-05

INSTRUCTIONS  
Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1, G-2, G-3) Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *				Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale		Depth					
						TW	B						
G-144	G-145	X			8"				CPT	UNKNOWN	Probably	Wayne Henderson (814) 267-4621	BERLIN BROS VALLEY SCHOOL
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												

MAP # / STREET  
#6 / ATHLETIC FIELD ALONG STADIUM STREET

\* See measurement key on reverse side.





## FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

SHEET 1 OF 1 SYSTEM 155 TO 162

WATERSHED		FORM COMPLETED BY		INSTRUCTIONS			
Name: <u>STONYCREEK RIVER</u>		Name: <u>JEANNE M. JOHNSON</u>		Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3) Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.			
Municipality: <u>BERLIN BOROUGH</u>		Telephone: <u>(814) 267-4929</u>					
County: <u>SOMERSET</u>		Date: <u>04-11-05</u>					

Map I.D. No.		System's Elements (x)			Measurements *			Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale						
					D	TW	B	Depth				
G-155	G-156	X			6"				CLAY		UNKNOWN	BERLIN BOROUGH
G-156	G-157	X			8"				"	"	"	"
G-157	G-158	X			10"				RCP	"	"	"
G-159	G-158	X			8"				CLAY	"	"	"
G-160	G-161	X			10"				RCP	"	"	"
G-158	G-161	X			15"				RCP	"	"	"
G-161	G-162	X			15"				"	"	"	"
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											
G-	G-											

MAP# / STREET  
 #6 / STADIUM ST.  
 "  
 "  
 "  
 "  
 "  
 "

\* See measurement key on reverse side.



## FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

SHEET 1 OF 1 SYSTEM 172 TO 180

WATERSHED		FORM COMPLETED BY		INSTRUCTIONS			
Name: <u>STONYCREEK RIVER</u>		Name: <u>JEANNE M. JOHNSON</u>		Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1, G-2, G-3) Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.			
Municipality: <u>BERLIN BOROUGHS</u>		Telephone: <u>(814) 267-4929</u>					
County: <u>SOMERSET</u>		Date: <u>04-11-05</u>					

Map I.D. No.		System's Elements (x)			Measurements *			Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility	MAP # / STREET
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale							
					D	TW	B	Depth					
G-172	G-173	X			15"				RCP OR PVC	UNKNOWN			#6 / STADIUM ST TO SR 160
G-173	G-174	X			15"				"	"			#6 / SR 160
G-175	G-174	X			12"				RCP	"	UNKNOWN	DENNIS BRANT (814) 267-4641	
G-174	G-176	X			15"				HDPE	2003/2004	UNKNOWN	DENNIS BRANT	#6 / SR 160
G-176	G-177	X			"				RCP	UNKNOWN	"	"	"
G-177	G-178	X			18"				RCP	"	"	"	"
G-178	G-180	X			18"				HDPE	"	"	"	"
G-179	G-180	X			18"				"	"	"	MIKE BOWSER (814) 445-7905	#1 PENNDOT
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												

\* See measurement key on reverse side.





FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

WATERSHED  
 Name: STONYCREEK RIVER  
 Municipality: BERLIN BOROUGH  
 County: SOMERSET

FORM COMPLETED BY  
 Name: JEANNE M. JOHNSON  
 Telephone: (814) 267-4929  
 Date: 08-11-05

INSTRUCTIONS  
 Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1,G-2,G-3) Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *				Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale		Depth					
						TW	B						
G-213	G-214		X			18'	1'	3'	ROCK	2005	YES	R.P. FOGLE ENGRG (814) 267-4929	BERLIN BOROUGH
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												
G-	G-												

MAP # / STREET  
 #1 / Shady Lane

\* See measurement key on reverse side.





## FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

SHEET 1 OF 2 SYSTEM 200-218

WATERSHED		FORM COMPLETED BY		INSTRUCTIONS			
Name: <u>STONYCREEK RIVER</u>		Name: <u>JEANNE M. JOHNSON</u>		Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1, G-2, G-3) Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.			
Municipality: <u>BERLIN BOROUGH</u>		Telephone: <u>(814) 267-4929</u>					
County: <u>SOMERSET</u>		Date: <u>04-11-05</u>					

Map I.D. No.		System's Elements (x)			Measurements *				Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility	MAP # / STREET
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale		Depth						
						TW	B							
G-200	G-201	X			12"				HDPE	1999	YES	BERLIN ALLIANCE CHURCH (814) 267-4663	BERLIN BOROUGH	#4 / SR 219 & SHADY LANE
G-201	G-202	X			11"				"	"	"	"	"	#4 / "
G-203	G-203a	X			15"				"	"	"	"	"	"
G-204	G-205	X			15"				SDR 35	"	"	"	"	"
G-205	G-206	X			30"				HDPE	2005	"	R.D. FOGLE ENGRG (814) 267-4929	"	#4 / Shady Lane
G-206	G-207		X			18'	1'	3'	ROCK V-DITCH	"	"	"	"	#1 / Shady Lane
G-207	G-208	X			30"				HDPE	"	"	"	"	"
G-208	G-209		X			18'	1'	3'	ROCK V-DITCH	"	"	"	"	"
G-215	G-216	X			12"				RCP	UNKNOWN	UNKNOWN	MIKE BOWSER (814) 445-7905	PENNDOT / BERLIN BORG	#5 / BEULAH RD
G-216	G-217	X			6"				CLAY	"	"	"	BERLIN BOROUGH	"
G-217	G-209	X			6"				CPT	UNKNOWN	UNKNOWN	T. RICH CROWER PRIVATE PROPERTY	T. RICH CROWER	#1 / TO SHADY LANE
G-209	G-210		X			18'	1'	3'	ROCK	2005	YES	R.D. FOGLE ENGRG (814) 267-4929	BERLIN BOROUGH	#1 Shady Lane
G-210	G-211	X			30"				HDPE	"	"	"	"	#1 Shady Lane
G-211	G-212		X			"	"	"	ROCK	"	"	"	"	"
G-212	G-213	X			30"				HDPE	"	"	"	"	"

\* See measurement key on reverse side.





FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

SHEET 1 OF 7

SYSTEM 1 to 101

WATERSHED  
Name: STONY CREEK RIVER  
Municipality: BERLIN BORO  
County: SOMERSET

FORM COMPLETED BY  
Name: JEANNE M. JOHNSON  
Telephone: (814) 267-4929  
Date: 08/10/05

INSTRUCTIONS  
Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1, G-2, G-3). Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.

MAP SHEET # / STREET

Map I.D. No.		System's Elements (x)			Measurements *				Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale		Depth					
						TW	B						
G- 1	G- 2	X			8"				CPT	≈ 1978	?	KERRY CLAYCOMB 267-... →	BERLIN BORO
G- 2	G- 24	X			12"				RCP	"	?	"	" "
G- 3	G- 6	X			8"				CLAY	≈ 1930	NONE KNOWN	"	" "
G- 4a	G- 4	X			8"				CLAY	"	"	"	" "
G- 4	G- 5	X			8"				CLAY	"	"	"	" "
G- 5	G- 7	X			10"				CLAY	"	"	"	" "
G- 6	G- 7	X			8"				"	"	"	"	" "
G- 7	G- 8	X			15"				HDPE	UNKNOWN	"	"	" "
G- 8	G- 9	X			15"				"	"	1970'S	"	" "
G- 9	G- 10	X			15"				"	"	1970'S	"	" "
G- 11	G- G12	X			8"				CLAY	"	"	"	" "
G- 12	G- 10	X			"				"	"	"	"	" "
G- 13	G- 14	X			6"				PVC	"	"	"	" "
G- 15	G- 16	X			6"				PVC	"	"	"	" "
G- 18	G- 17	X			"				"	"	"	"	" "

5 / STEWART ST  
5 / STEWART ST  
8 / 8TH AVE  
5 / MAIN ST  
5 / MAIN TO MULBERRY  
5 / NORTH ST  
5 / 9TH AVE  
5 / NORTH ST  
5 / 8TH AVE  
5 / MEADOW  
5 / MEADOW

\* See measurement key on reverse side.





## FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

SHEET 2 OF 7 SYSTEM 1 TO 101

WATERSHED		FORM COMPLETED BY		INSTRUCTIONS			
Name: <u>STONYCREEK RIVER</u>		Name: <u>JEANNE M. JOHNSON</u>		Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1, G-2, G-3). Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.			
Municipality: <u>BERLIN BOROUGH</u>		Telephone: <u>(814) 267-4929</u>					
County: <u>SOMERSET</u>		Date: <u>08/10/05</u>					

Map I.D. No.		System's Elements (x)			Measurements *				Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale TW	B	Depth					
G-17	G-14	X			6"				CLAY	≈ 1930	UNKNOWN	KERRY CLAYCOMB (814) 267-3837 →	BERLIN BOROUGH
G-14	G-10	X			8"				"	"	"	"	"
G-10	G-19	X			24"				RCP	1970's	"	"	"
G-19	G-20	X			"				"	1970's	"	"	"
G-20	G-21	X			"				"	≈ 1978	"	"	"
G-22	G-24	X			8"				CLAY	≈ 1978	?	"	"
G-29	G-30	X			15"				HDPE	2005	YES	RD. FOGLE ENGIN. (814) 267-4929	"
G-30	G-30a	X			"				"	"	"	"	"
G-30a	G-31	X			30"				"	"	"	"	"
G-G37	G-36	X			12"				RCP	≈ 1930	UNKNOWN	KERRY CLAYCOMB (814) 267-3837	"
G-36	G-35	X			"				CLAY	"	"	"	"
G-34	G-33	X			6"				PVC	UNKNOWN	"	"	"
G-33	G-32	X			8"				CLAY	"	"	"	"
G-41	G-40	X			12"				"	≈ 1930	"	"	"
G-40	G-39	X			15"				PLASTIC	UNKNOWN	"	"	"

MAP SHEET # / STREET

5 / NORTH ST

5 / NORTH ST

5 / NORTH ST  
TO STEWART ST

"

5 / STEWART ST

5 / STEWART ST (W)

5 / WILSON ST.

4 / WASHINGTON

4 1/2 / WASH.

5 / MEADOW ST

"

5 / NORTH ST

" "

\* See measurement key on reverse side.





## FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

SHEET 3 OF 7 SYSTEM 1 TO 101

WATERSHED		FORM COMPLETED BY		INSTRUCTIONS	
Name: <u>STONYCREEK RIVER</u>		Name: <u>JEANNE M. JOHNSON</u>		Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1, G-2, G-3) Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.	
Municipality: <u>BERLIN BOROUGH</u>		Telephone: <u>(814) 267-4929</u>			
County: <u>SOMERSET</u>		Date: <u>08-11-05</u>			

Map I.D. No.		System's Elements (x)			Measurements *				Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale TW	B	Depth					
G-54	G-53	X			8"				CLAY	ORIG. 1930'S	UNKNOWN	KERRY OLAYCOMB (814) 267-3837	BERLIN BOROUGH
G-53	G-52	X			"				"	"	"	"	"
G-56	G-55	X			6"				PVC	UNKNOWN	"	"	"
G-55	G-52	X			8"				CLAY	"	"	"	"
G-52	G-51	X			8"				"	1930'S	"	"	"
G-51	G-50	X			"				"	"	"	"	"
G-50	G-49	X			8"				RCP	"	"	"	"
G-49	G-48	X			"				CLAY	"	"	"	"
G-48	G-47	X			"				PVC	"	"	"	"
G-47	G-46	X			10"				CLAY	"	"	"	"
G-46	G-45	X			8"				CLAY	"	"	"	"
G-45	G-44	X			"				PVC	"	"	"	"
G-44	G-43	X			10"				CLAY	"	"	"	"
G-43	G-42	X			12"				"	"	"	"	"
G-42b	G-42a	X			12"				CLAY	"	"	"	"

MAPSHEET #/STREET

#4/BROADWAY

"

#4/NORTH ST

"

"

"

"

"

"

#4 &amp; #5/NORTH ST

#5/NORTH ST

"

"

"

"

#5/6TH AVE

\* See measurement key on reverse side.





## FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

SHEET 4 OF 7 SYSTEM 1 to 101

WATERSHED		FORM COMPLETED BY		INSTRUCTIONS				
Name: <u>STONYCREEK RIVER</u>		Name: <u>JEANNE M. JOHNSON</u>		Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1, G-2, G-3) Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.				
Municipality: <u>BERLIN BOROUGH</u>		Telephone: <u>(814) 267-4929</u>						
County: <u>SOMERSET</u>		Date: <u>08-11-05</u>						

Map I.D. No.		System's Elements (x)			Measurements *			Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility	
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale							
						TW	B	Depth					
G-69	G-68	X			8"				CLAY	1930's	UNKNOWN	KERRY CLAY COMB (814) 267-3837	BERLIN BOROUGH
G-68	G-67	X			12"				"	"	"	"	"
G-67	G-65	X			4"				"	"	"	"	"
G-66	G-65	X			"				"	"	"	"	"
G-65	G-64	X			4"				"	"	"	"	"
G-64	G-63	X			15"				"	"	"	"	"
G-63	G-62	X			18"				SMOOTH PLASTIC	UNKNOWN	"	"	"
G-62	G-61	X			24"				"	"	"	"	"
G-61	G-59	X			4"				"	"	"	"	"
G-59	G-58	X			30"				PLASTIC	"	"	"	"
G-60	G-59	X			12"				RCP	"	"	"	"
G-59a	G-59	X			10"				RCP	REPLACE 2001	"	"	"
G-78b	G-78a		X			3'	3'	3'	ROCK/BRICK	≈1918	NO	"	"
G-78a	G-78		X			"	"	"	"	"	"	"	"
G-78	G-74		X			"	"	"	"	"	"	"	"

MAP SHEET # / STREET

#4 / MULBERRY ST

#4 / 4TH AVE

#4 / MULBERRY

#5 / 5TH AVE

#4 / 5TH AVE

#4 / MAIN ST

"

"

\* See measurement key on reverse side.









## FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

SHEET 6 OF 7 SYSTEM 1-101

WATERSHED		FORM COMPLETED BY		INSTRUCTIONS			
Name: <u>STONYCREEK RIVER</u>		Name: <u>JEANNE M. JOHNSON</u>		Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1, G-2, G-3) Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.			
Municipality: <u>BERLIN BOROUGH</u>		Telephone: <u>(814) 267-4929</u>					
County: <u>SOMERSET</u>		Date: <u>04-11-05</u>					

Map I.D. No.		System's Elements (x)			Measurements *			Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility	MAP#/STREET	
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale								
					D	TW	B	Depth						
G-91	G-75	X			8"				CLAY/PVC	UNKNOWN	UNKNOWN		BERLIN BOROUGH	#7/5TH AVE
G-77	G-76	X			"				CLAY PVC	"	"		"	#4 FLETCHER
G-76	G-75	X			"				"	"	"		"	"
G-75	G-74	X			"				PVC	SOME 2003	"		"	#4/5TH AVE
G-74	G-72		SUBSURFACE X			3'	3'	3'	ROCK/BRICK	~1918	NO		"	#5/MAIN ST
G-73	G-72	X			8"				PVC	? 1970's	UNKNOWN		"	#5/MAIN ST
G-72	G-71		SUBSURFACE X			3'	3'	3'	ROCK/BRICK	~1918	NO		"	#5/1.11 ST
G-71	G-70		"			"	"	"	"	"	"		"	"
G-70	G-58		"			"	"	"	"	"	"		"	#5/VINE ST
G-58	G-57		"			"	"	"	"	"	"		"	"
G-57	G-42a	X			36"				RCP	1960-1970	UNKNOWN	KERRY CLAYCOMB	"	#5/VINE TO NORTH ST
G-42a	G-39	X			"				"	"	"		"	#5 VINE TO NORTH #
G-39	G-38	X			"				"	"	"		"	#5/NORTH TO WASH.
G-38	G-35	X			"				"	"	"		"	#5/NORTH TO WASH.
G-35	G-32	X			"				"	"	"		"	#5/Meadow St

\* See measurement key on reverse side.





## FORM G - EXISTING STORM WATER COLLECTION SYSTEMS

SHEET 7 OF 7 SYSTEM 1-101

WATERSHED		FORM COMPLETED BY		INSTRUCTIONS			
Name: <u>STONYCREEK RIVER</u>		Name: <u>JEANNE M. JOHNSON</u>		Diagram each system on the appropriate map. Establish map points to show changes in system elements, pipe size, or pipe direction. (If unknown, outline the system extent.) Complete this form only where specific information on construction is available. Use a separate form for each system. Identify the points within a system consecutively (ex. G-1, G-2, G-3) Start the first point in each additional system 20 numbers higher. For example, G-3 ends one system, so G-23 begins the next. See Sample Diagrams & Form on Reverse.			
Municipality: <u>BERLIN BOROUGH</u>		Telephone: <u>(814) 267-4929</u>					
County: <u>SOMERSET</u>		Date: <u>04-11-05</u>					

Map I.D. No.		System's Elements (x)			Measurements *			Material	Year Constr.	Design Data Available	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility	MAP#/STREET	
From	To	Pipe	Open Channel	Swale	Pipe D	Channel / Swale								
						TW	B	Depth						
G-32	G-31	X			36"				RCP	1976's	UNKNOWN	KERRY CLAYCOMB (814) 267-3837	BERLIN BOROUGH	#5/ MEADOW TO STEWART
G-31	G-28	X			"				"	"	"	"	"	"
G-28	G-27	X			"				"	"	"	"	"	"
G-27	G-21	X			"				"	"	"	"	"	#5/STEWART ST
G-21	G-23	X			48"				RCP	1978	YES	R.D. FOGLE ENGRG (814) 267-4929	"	#5/STEWART/WILSON
G-23	G-24	X			"				"	"	"	"	"	#5 WILSON DR
G-24	G-25	X			"				"	"	"	"	"	#5/WILSON DR TO SWALLOW
G-98	G-97	X			8"				PVC	1990's	NO	"	"	#5/SWALLOW(E)
G-97	G-96	X			"				"	"	"	"	"	"
G-96	G-94	X			10"				HDPE	"	"	"	"	"
G-95	G-94	X			8"				CLAY	"	NO	"	"	"
G-94	G-25	X			12"				CPT	"	"	"	"	"
G-99	G-100					8'	3'	2'	EARTH	2004	NO	"	"	"
G-100	G-101	X	X		12"				RCP	1978	NO	"	"	"
G-25	G-101	X			48"				RCP	"	YES	R.D. FOGLE ENG.	"	#5/SWALLOW TO OUTFALL @ TRIB.

\* See measurement key on reverse side.





FORM H - PROPOSED STORM WATER COLLECTION SYSTEMS

SHEET 1 OF 1

SYSTEM H-1 TO H-9

WATERSHED  
Name: STONYCREEK RIVER  
Municipality: BERLIN BORO  
County: SOMERSET

FORM COMPLETED BY  
Name: JEANNE M. JOHNSON  
Telephone: (814) 267-4929  
Date: 08-11-05

INSTRUCTIONS  
On the map for proposed storm water collection systems, diagram each proposed system. Indicate a map point to show changes in system elements, pipe size, pipe direction and connections to existing systems. For proposed additions to existing systems, diagram only the additions and their connection point into the existing system. Complete a separate form for each proposed new system and one for each existing system having one or more proposed additions. Identify the points within a system consecutively (ex H-1, H-2, H-3). Start the first point in each additional system 20 numbers higher (if H-3 ends one system, begin the next with H-23). Be sure to show the point where proposed additions connect into existing systems, using the map point number from the existing system form and map. See Sample Diagrams and Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *				Material	Map I.D. Nos. ** Form A	Proposed Const. Dates		Design Data Avail.	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Open Channel / Swale					Start	End			
						TW	B	Depth							
H-1	H-2	X			18"				HDPE	NEW CONST	7/05	10/05	YES	HAYES LARGE ARCHITECTS (814) 946-0451	BERLIN BROS VALLEY SCHOOL
H-2	H-3	X			"				"	"	"	"	"	"	"
H-3	H-4	X			"				"	"	"	"	"	"	"
H-4	H-5	X			"				"	"	"	"	"	"	"
H-5	H-6	X			"				"	"	"	"	"	"	"
H-6	H-7	X			"				"	"	"	"	"	"	"
H-	H-				-										"
H-8	H-9	X			24"				"	"	"	"	"	"	"
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														

MAP # / STREET  
#5 / STADIUM ST SCHOOL GNDS  
" "  
" "  
#5 / Dively Dr + School GNDS  
#5 School GNDS  
" "  
#5 / SCHOOL GROUND S

\* See measurement key on reverse side. \*\* Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.





FORM H - PROPOSED STORM WATER COLLECTION SYSTEMS

SHEET 1 OF 1

SYSTEM H29-H33

WATERSHED		FORM COMPLETED BY		INSTRUCTIONS	
Name: <u>STONYCREEK RIVER</u>		Name: <u>JEANNE M. JOHNSON</u>		<p>On the map for proposed storm water collection systems, diagram each proposed system. Indicate a map point to show changes in system elements, pipe size, pipe direction and connections to existing systems. For proposed additions to existing systems, diagram only the additions and their connection point into the existing system. Complete a separate form for each proposed new system and one for each existing system having one or more proposed additions. Identify the points within a system consecutively (ex H-1, H-2, H-3). Start the first point in each additional system 20 numbers higher (if H-3 ends one system, begin the next with H-23). Be sure to show the point where proposed additions connect into existing systems, using the map point number from the existing system form and map. See Sample Diagrams and Form on Reverse.</p>	
Municipality: <u>BERLIN BORO</u>		Telephone: <u>(814) 267-4929</u>			
County: <u>SOMERSET</u>		Date: <u>08-11-05</u>			

Map I.D. No.		System's Elements (x)			Measurements *				Material	Map I.D. Nos.** Form A	Proposed Const. Dates		Design Data Avail.	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Open Channel / Swale					Start	End			
						TW	B	Depth							
H-29	H-30	X			12"				HDPE	NEW BLDG CONST.	07/05	10/05	YES	HAYES LARGE ARCH. (814) 946-0451	BERLIN BROS VALLEY SCHOOL
H-30	H-31	X			15"				"	"	"	"	"	"	"
H-31	H-32	X			"				"	"	"	"	"	"	"
H-32	H-G-121	X			"				"	"	"	"	"	"	"
H-33	H-G-121	X			"				"	"	"	"	"	"	"
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														
H-	H-														

MAP # / STREET  
 #6 / SCHOOL GROUNDS  
 "  
 "  
 "  
 "

\* See measurement key on reverse side. \*\* Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.



FORM H - PROPOSED STORM WATER COLLECTION SYSTEMS

SHEET 1 OF 1

SYSTEM H43-H47

WATERSHED  
Name: SPRINGCREEK RIVER  
Municipality: BERLIN BORO  
County: SOMERSET

FORM COMPLETED BY  
Name: JEANNE M. JOHNSON  
Telephone: (814) 267-4929  
Date: 08-11-05

INSTRUCTIONS

On the map for proposed storm water collection systems, diagram each proposed system. Indicate a map point to show changes in system elements, pipe size, pipe direction and connections to existing systems. For proposed additions to existing systems, diagram only the additions and their connection point into the existing system. Complete a separate form for each proposed new system and one for each existing system having one or more proposed additions. Identify the points within a system consecutively (ex H-1, H-2, H-3). Start the first point in each additional system 20 numbers higher (if H-3 ends one system, begin the next with H-23). Be sure to show the point where proposed additions connect into existing systems, using the map point number from the existing system form and map. See Sample Diagrams and Form on Reverse.

Map I.D. No.		System's Elements (x)			Measurements *			Material	Map I.D. Nos.** Form A	Proposed Const. Dates		Design Data Avail.	Contact Person Name and Phone	Name of Final Ownership and Maintenance Responsibility
From	To	Pipe	Open Channel	Swale	Pipe D	Open Channel / Swale				Start	End			
						TW	B	Depth						
H-43	H-44	X			24"				HDPE	A-1	DESIGN STAGE	YES	R.D. FOGLE ENG (814) 267-4929	BERLIN BORO
H-44	H-45	X			36"				"	"	"	"	"	"
H-45	H-46	X			"				"	"	"	"	"	"
H-46	H-47	X			"				"	"	"	"	"	"
H-	H-													
H-	H-													
H-	H-													
H-	H-													
H-	H-													
H-	H-													
H-	H-													
H-	H-													
H-	H-													
H-	H-													
H-	H-													
H-	H-													
H-	H-													
H-	H-													
H-	H-													

MAP # / STREET  
#5 / STEWART ST  
"  
"  
#5 / STEWART TO OUTFALL

\* See measurement key on reverse side. \*\* Enter the storm water problem areas' Map I.D. Nos., if proposed project will solve or reduce any / all of the drainage problems.

















<b>WATERSHED</b> Name: <u>STONYCREEK RIVER</u> Municipality: <u>BERLIN BOROUGH</u> County: <u>SOMERSET</u>	<b>FORM COMPLETED BY</b> Name: <u>JEANNE M. JOHNSON</u> Telephone: <u>(814) 267-4929</u> Date: <u>08-08-05</u>
---	---

SITE	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-
<b>Types of Water Quality Problems</b>													
High Community Tolerance													
High Temperature													
High Turbidity													
Hydrocarbon Pollution													
Low Community Diversity													
Low Dissolved Oxygen													
Low pH													
Nutrient Enrichment													
Poor Habitat													
Other/Explanation Line No.													
<b>Potential Cause(s)</b>													
Agriculture													
Construction Site													
Erosion													
Lake Discharge													
STP Outfall													
Other/Explanation Line No.													
<b>Frequency</b>													
Year Most Recent Occurrence													
Year First Known Occurrence													
<b>Source of Information</b>													
BWA Streamwatch													
County Water Quality Study													
Driveby													
UCCD Complaint Investigation													
Other/Explanation Line No.													

**EXPLANATION LINES**

- 1 NONE KNOWN
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

FORM DESCRIPTION SUMMARY  
ACT 167 WATERSHED STORMWATER MANAGEMENT PLAN

Form	Symbol	Description	Types of Examples	Sources of Information
A		Stormwater Problem Areas	Flooding, Drainage, Erosion/Sedimentation	Existing studies or reports, Township Documentation, Personal memory, Township engineer
B		Obstructions	Bridges, Culverts, Fill, Structures	Owner or structure, township files, subdivision applications, roadmaster, township engineer
C		Existing Flood Control Projects	Channel excavation, rip-rap, floodwalls, etc.	Township records, township engineer, owner of facility
D		Proposed Flood Control Projects	Channel excavation, rip-rap, floodwalls, etc.	Township records, township engineer, owner of facility
E		Existing Stormwater Control Facilities	Detention basins, recharge basins, roof-top storage	Subdivision files, township engineer, owner of facility
F		Proposed Stormwater Control Facilities	Detention basins, recharge basins, roof-top storage	Subdivision files, township engineer, owner of facility
G		Existing Stormwater Collection Systems	Storm sewers, man-made channels, diversions	Existing plans, township engineer, owner of system
H		Proposed Stormwater Collection Systems	Storm sewers, man-made channels, diversions	Existing plans, township engineer, owner of system
I		Present & Projected Development in Flood Hazard Areas	Subdivision / site plans	Flood Insurance Studies, Subdivision / Site Plans, General knowledge, Township engineer, Private flood studies
J		Water Quality Problem Areas	Construction sites, agriculture	Municipalities, Conservation District

NO

NO

NO

NO

NO

NO

NO

NO





NA



WATERSHED

Name: Aennis Richards  
 Municipality: Hamms  
 County: Cambeira

FORM COMPLETED BY

Name: Diana Baxter  
 Telephone: 487-5054  
 Date: 7-15-05

Before Filling Out Form,  
 See Instructions On Back

For County Use:

MAP NO. \*      A-1    A-2    A-3    A-    A-    A-    A-    A-    A-    A-    A-

**Types of Storm Water Problems**

Flooding	X	X	X								
Accelerated Erosion	X										
Sedimentation		X									
Landslide			X								
Groundwater											
Water Pollution											
Other (Explain)											

Explanation Line No. (On Back)

**Cause (s)**

Storm Water Volume											
Storm Water Velocity											
Storm Water Direction											
Water Obstruction											
Other (Explain)											

Explanation Line No. (On Back)

**Frequency**

Year Most Recent Occurred	<u>05</u>										
Year First Known Occurred											

**Regularity**

More Than 1 Year	X	X	X								
Less Than 1 Year											
Only During Agnes											

**Duration (If Applicable)**

Less Than 1 Day	X	X	X								
1 Day + (Enter Days)											

**Property Damage**

Loss of Life/Vital Services											
Private											
More Than One Owner	X	X	X								

Types of Properties

Number of Properties

Public (List Types)

Explanation Line No. (On Back)

**Solutions**

Suggested

Explanation Line No. (On Back)

Formally Proposed

Explanation Line No. (On Back)

\* Include Map ID No. if found on any other form listing proposed facilities.



<b>WATERSHED</b> CONSERVATION DISTRICT Name: <u>D. Richards</u> Municipality: <u>Adams</u> County: <u>Cambria</u>	<b>FORM COMPLETED BY</b> Name: <u>D. Richards</u> Telephone: _____ Date: _____	Before Filling Out Form, See Instructions On Back  For County Use:
---	---	---

MAP NO. *	A-#1	A-#2	A-#3	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	A-	
<b>Types of Storm Water Problems</b>																
Flooding	✓	✓	✓													
Accelerated Erosion		✓	✓													
Sedimentation		✓	✓													
Landslide			✓													
Groundwater	✓	✓	✓													
Water Pollution		✓														
Other (Explain)																
Explanation Line No.																
<b>Cause (s)</b>																
Storm Water Volume	✓	✓	✓													
Storm Water Velocity			✓													
Storm Water Direction																
Water Obstruction	✓															
Other (Explain)																
Explanation Line No.																
<b>Frequency</b>																
Year Most Recent Occurred	03	03	03													
Year First Known Occurred	84	84	84													
<b>Regularity</b>																
More Than 1 Year	✓	✓	✓													
Less Than 1 Year																
Only During Agnes																
<b>Duration (If Applicable)</b>																
Less Than 1 Day																
1 Day + (Enter Days)	✓	✓	✓													
<b>Property Damage</b>																
Loss of Life/Vital Services																
Private	✓															
More Than One Owner																
Types of Properties																
Number of Properties																
Public (List Types)		✓														
Explanation Line No.		1														
<b>Solutions</b>																
Suggested	✓	✓														
Explanation Line No.	3	2														
Formally Proposed																
Explanation Line No.																

\* Include Map ID No. if found on any other form listing proposed facilities.

- EXPLANATION LINE(S)
- 1) #2 - Road way damage w/ over flow going into town
  - 2) place water course back to god made instead of man made
  - 3) removal of home to straighten stream out to evade curve.
  - 4)
  - 5)
  - 6)
  - 7)
  - 8)







na



**FORM D - PROPOSED FLOOD CONTROL PROJECT**

SHEET \_\_\_\_\_ OF \_\_\_\_\_

<b>WATERSHED</b>  Name: _____ Municipality: _____ County: _____	<b>FORM COMPLETED BY</b>  Name: _____ Telephone: _____ Date: _____	<b>TYPICAL TYPES OF FLOOD CONTROL PROJECTS</b>  <table style="width:100%; border:none;"> <tr> <td style="width:33%;">Channel Excavation / Widening</td> <td style="width:33%;">Levee</td> <td style="width:33%;">Dams</td> </tr> <tr> <td>Channel Realignment</td> <td>Gabions</td> <td>Floodwall</td> </tr> <tr> <td>Rock Riprap</td> <td>Pipe Channel</td> <td>Concrete Lining</td> </tr> </table>	Channel Excavation / Widening	Levee	Dams	Channel Realignment	Gabions	Floodwall	Rock Riprap	Pipe Channel	Concrete Lining
Channel Excavation / Widening	Levee	Dams									
Channel Realignment	Gabions	Floodwall									
Rock Riprap	Pipe Channel	Concrete Lining									

For County Use: \_\_\_\_\_

Map ID No.	Type of Flood Control Project	Study Phase Begun			Year Constr. Planned	Projected Compltn. Date	Expected Life Yrs.	Design Flood		Map ID No. Form A*	Owner Name, Address, and Phone
		YES		NO				Frequency Yrs.	Discharge C.F.S.		
		Prelim.	Final								
D-											
D-											
D-											
D-											
D-											
D-											
D-											

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.







FORM F - PROPOSED STORM WATER CONTROL FACILITIES

SHEET \_\_\_\_\_ OF \_\_\_\_\_

WATERSHED		FORM COMPLETED BY		DEFINITION Storm Water Control Facility A natural / man-made device or structure specifically designed and / or utilized to reduce the rate and / or volume of storm water runoff from a site or sites.
Name:	<u>D. Richards</u>	Name:	<u>D. Baxter</u>	
Municipality:	<u>Adams</u>	Telephone:	<u>487-5054</u>	
County:	<u>Cambridge</u>	Date:	<u>7-15-05</u>	

For County Use:

Map ID No.	Type of Storm Water Control Facility	Proposed Constr. Dates		Map No. Form A*	Contact Person Name, Address and Phone	Comments
		Start	End			
F- 1	Detention basins	Completed				New Developments
F- 2	Detention basins	Fall 2005 ?				New Developments
F- 3	Detention basins	2004 Continuing				New Development
F-						
F-						
F-						
F-						
F-						
F-						
F-						
F-						

\* Enter the storm water problem area's Map ID No., if the proposed project will solve or reduce any / all of an identified drainage problem.

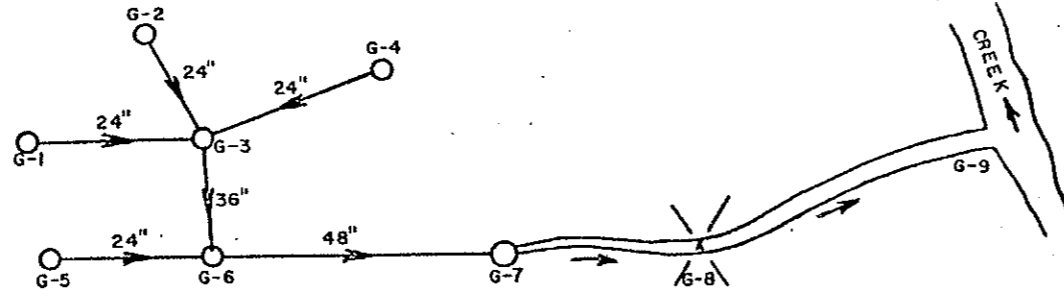
TYPICAL TYPES OF STORM WATER CONTROL FACILITIES

- |                             |  |
|-----------------------------|--|
| Detention / Retention Basin | Roof-Top Storage   |
| Natural Pond or Wetland     | Semi-Pervious Paving   |
| Parking Lot Pondling        | Infiltration Device (Seepage / Recharge Basin or Underground Tank) |

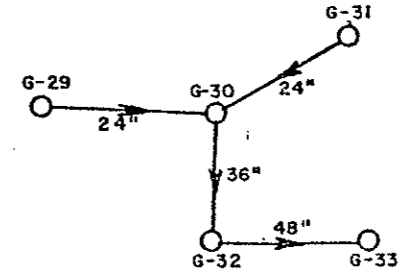




Measurement Key	
D	= Diameter
TW	= Top Width
B	= Bottom Width



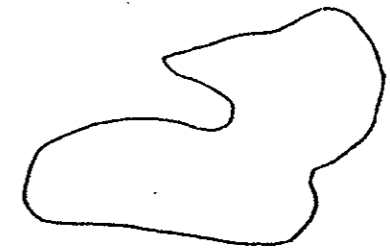
SAMPLE DIAGRAM FOR SYSTEM ONE



SAMPLE DIAGRAM FOR SYSTEM TWO

SAMPLE FORM (System One Only)

STANDARD SLOPE WATER COLLECTION SYSTEM - FORM 9											
DATE PRINTED		FORM COMPLETED BY		INVESTIGATOR		SHEET NO.					
Name		Name		Name		No.					
Address		Address		Address		No.					
City		City		City		No.					
Line No.	Manhole Section #1	Manhole Section #2	Manhole Section #3	Material	Year Constructed	Water Flow	Ground Water	Flow Direction	Flow Direction	Flow Direction	Flow Direction
G-1	G-3	/	24"	OMP	1976	Yes	John Doe 123-4567	Borough of ABC			
G-2	G-3	/	24"	OMP	1978	Yes	John Doe 123-4567	Borough of ABC			
G-4	G-3	/	24"	OMP	1978	Yes	John Doe 123-4567	Borough of ABC			
G-3	G-6	/	36"	OMP	1978	Yes	John Doe 123-4567	Borough of ABC			
G-6	G-7	/	48"	OMP	1978	Yes	John Doe 123-4567	Borough of ABC			
G-7	G-8	/	48"	OMP	1978	Yes	John Doe 123-4567	Borough of ABC			
G-5	G-6	/	24"	Concrete	1980	Yes	John Doe 123-4567	Borough of ABC			
G-6	G-9	/	48"	Manhole pipe				Borough of ABC			
G-9											
G-9											
G-9											

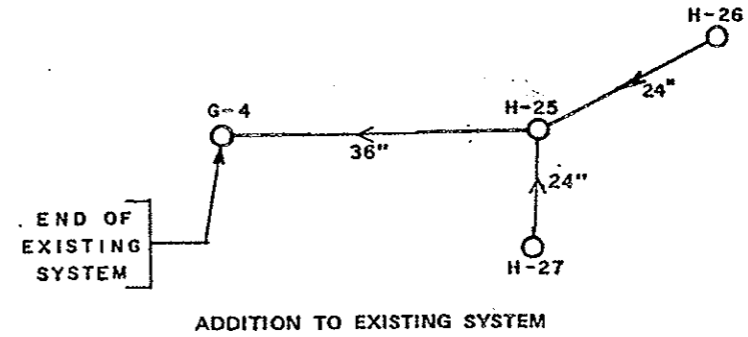
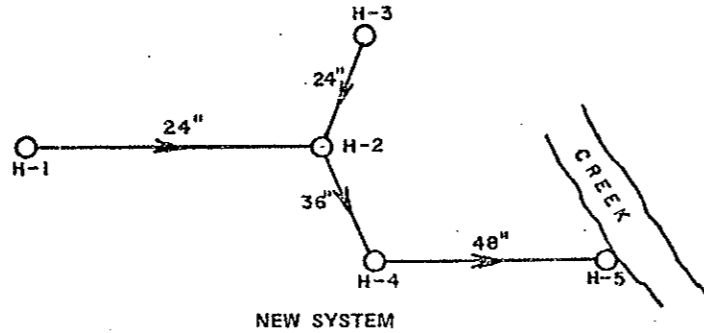


Outline known areas where construction exists but construction data is unavailable.



SAMPLE DIAGRAMS

Measurement Key	
D	= Diameter
TW	= Top Width
B	= Bottom Width



SAMPLE FORM (New System Only)

PROPOSED STORM WATER COLLECTION SYSTEMS FORM #1											
WATERSHED		FORM COMPLETED BY			INSTRUCTIONS						
Name _____		Name _____			Do not use for proposed pipe, manholes, or structures. If an addition to an existing system, show only the addition and show existing pipes and the existing system.						
Municipality _____		Telephone _____			Indicate pipe grades to street center for street crossings, pipe size, pipe diameter and the connection to existing system.						
County _____		Date _____			Complete a separate form for each manhole and run for each existing manhole showing size and material.						
					Mark the pipe grade, when a pipe connection to an existing manhole is shown, show the manhole and the pipe to be connected to it. Do not show the pipe to be connected to an existing manhole unless shown on the plan.						
Prop. No.	Inch. Dia.	Proposed Manhole			Material	Prop. No.	Proposed Manhole	Design Date	Design Date	Design Date	Status
		Top	Bottom	Bottom							
141	142	24"			CMP	A-1	1982	1983	Yes	John Doe 123-4567	Borough of ABC
143	142	24"			CMP	A-2	1982	1983	Yes	John Doe 123-4567	Borough of ABC
142	144	36"			CMP	A-3	1982	1983	Yes	John Doe 123-4567	Borough of ABC
144	148	48"			CMP	A-2	1982	1983	Yes	John Doe 123-4567	Borough of ABC
14	14										
14	14										
14	14										
14	14										
14	14										
14	14										
14	14										

\*Enter the storm water problem area map I.D. No., if proposed project will solve or reduce any/all of the drainage problems.



N/A



WATERSHED

FORM COMPLETED BY

Name: \_\_\_\_\_  
Municipality: \_\_\_\_\_  
County: \_\_\_\_\_

Name: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Date: \_\_\_\_\_

SITE	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-	J-
<b>Types of Water Quality Problems</b>													
High Community Tolarence													
High Temperature													
High Turbidity													
Hydrocarbon Pollution													
Low Community Diversity													
Low Dissolved Oxygen													
Low pH													
Nutrient Enrichment													
Poor Habitat													
Other/Explanation Line No.													
<b>Potential Cause(s)</b>													
Agriculture													
Construction Site													
Erosion													
Lake Discharge													
STP Outfall													
Other/Explanation Line No.													
<b>Frequency</b>													
Year Most Recent Occurence													
Year First Known Occurence													
<b>Source of Information</b>													
BWA Streamwatch													
County Water Quality Study													
Driveby													
UCCD Complaint Investigation													
Other/Explanation Line No.													

EXPLANATION LINES

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10