

1997 Gauge readings and concentrations

Jan. 19, 1998

Site: CC1 @ Campbell Creek at CTY HWY 149

Date	Hi up Strm - Zero = 1381.69 gauge	totphos	suspsol	Ortho	Gauge Middle	Gauge DS	Comments:
3/29/1997	4.45	0.086	5.50				
3/31/1997	5.04				DSB		DSB -Downstream Blk
4/1/1997	5.06				DSB		
4/2/1997	6.24	0.083	5.50				
4/2/1997	6.50						
4/3/1997	5.74	0.086	5.50	0.055			
4/4/1997	6.18						N. culvert opened to V
4/5/1997	5.56						
4/5/1997	5.58				DSB		
4/7/1997	6.40						
4/8/1997	ice						4" from top of upstrea
4/9/1997	ice	0.218	6.50				
4/10/1997	6.25						
4/11/1997	5.90						Guage frozen
4/12/1997	6.00						
4/13/1997	5.68						
4/14/1997	5.60						High was about 6.80
4/15/1997	5.60						
4/16/1997	5.55	0.194	0.00	0.129			
4/16/1997	5.50						Downstream guage is
4/17/1997	5.46						
4/18/1997	5.42						
4/19/1997	5.28						
4/21/1997	5.24						
4/22/1997	5.12						
4/23/1997	5.04	0.055	20.00	0.029			
4/24/1997	4.86					3.00	
4/25/1997	4.82					2.90	
4/26/1997	4.78					2.84	
4/27/1997	4.64					2.70	
4/28/1997	4.48					2.58	
4/30/1997	4.28	0.061	15.00	0.03	3.22	2.34	
5/1/1997	4.16				3.12	2.20	
5/2/1997	4.04				3.00	2.10	
5/5/1997	3.64				2.60	1.68	
5/6/1997	3.50				2.40	1.54	
5/7/1997	3.42	0.086	13.00	0.034	2.40	1.37	
5/13/1997	-	0.094	11.00	0.032	2.28	1.37	
5/20/1997		0.068	4.50	0.017	2.07	1.13	
5/27/1997	4.12	0.063	4.00	0.015	3.09	2.18	
6/3/1997	3.36	0.046	14.50	0.026	2.30	1.42	
6/10/1997		0.058	13.00	0.037	1.81	0.92	
6/17/1997		0.090		0.058	1.39	0.49	
6/23/1997		0.216	15.00	0.136			
6/24/1997		0.311	12.00	0.218	1.56	0.90	

6/30/1997	0.227	14.00	0.144		
7/1/1997	0.215	8.50	0.180	1.68	0.7
7/8/1997	0.143	5.00	0.061	2.52	1.54
7/15/1997	0.055		0.053	2.28	1.23
7/22/1997	0.061	6.50	0.036	2.00	1.01
7/31/1997	0.064	4.50	0.059	1.49	0.59
8/5/1997	0.102	2.50	0.106	1.38	0.48
8/12/1997	0.079	5.00	0.061	1.40	0.49
8/19/1997	0.066	3.00	0.061	1.38	0.45
8/26/1997	0.093	4.50	0.080	1.30	0.38
9/1/1997					0.68
9/2/1997	0.102		0.056		0.44
9/8/1997	0.096	4.50	0.051	1.14	
9/15/1997	0.084	4.50	0.039	1.44	
9/22/1997	0.078	11.50	0.061		0.40
9/29/1997	0.067	5.50	0.026	1.98	
10/6/1997	0.049	3.50	0.032	1.18	
#####	0.134	17.50	0.031	2.22	
#####	0.126	13.00	0.032	1.50	
#####	0.102	10.00	0.026	1.20	
11/3/1997	0.085	10.00	0.036	1.30	
#####	0.076	5.50	0.026	1.40	
#####	0.032	4.50	0.018	1.40	
#####	0.027	6.00	0.007	1.50	
12/1/1998	0.028	4.00	0.006	1.50	
12/8/1998	0.026	3.00	0.006	1.50	
#####	0.023	6.00	0.010	1.50	
#####	0.025	4.00	0.004	1.50	

2.28 Rainfall

Gauge buried in ice a

iced over

cc2

6/23/1997	0.257	13.50	0.195
6/30/1997	0.254	13.00	0.193

cc3

6/23/1997	0.031	12.00	0.010
6/30/1997	0.034	11.00	0.017

Site: PR O @ Richwood Road Culvert between Mud & Little Floyd

Date	gauge	totphos	suspsol	ortho	Comments:
4/12/1997	2.26				
4/14/1997	2.38				
4/15/1997	2.40				
4/16/1997	2.41				
4/17/1997	2.42				
4/18/1997	2.46				
4/20/1997	2.46				
4/21/1997	2.48				
4/22/1997	2.48				
4/23/1997	2.46	0.278	7.50	0.165	

4/24/1997	2.42				
4/25/1997	2.40				
4/26/1997	2.40				
4/27/1997	2.40				
4/28/1997	2.40				
4/30/1997	2.30	0.165	6.00	0.117	
5/1/1997	2.28				
5/2/1997	2.24				
5/5/1997	2.18				
5/6/1997	2.10				
5/13/1997	1.88	0.103	5.00	0.050	Very windy hard to re:
5/20/1997	1.73	0.037	-	0.009	
5/26/1997	1.90				
5/27/1997	1.85	0.040	-	0.010	
6/3/1997	1.75	0.028	-	0.000	
6/10/1997	1.56	0.033		0.000	
6/17/1997	1.42	0.021		0.000	
6/24/1997	1.55	0.031		0.015	
7/1/1997	1.65	0.033		0.010	
7/8/1997	1.67	0.025		0.000	
7/15/1997	1.69	0.021		0.014	
7/22/1997	1.56	0.030		0.020	
7/31/1997	1.39	0.013		0.000	
8/5/1997	1.40	0.025		0.009	
8/12/1997	1.33	0.033		0.009	
8/19/1997	1.29	0.024		0.007	
8/26/1997	1.32	0.033		0.009	
9/2/1997	1.42	0.037		0.018	
9/8/1997	2.39	0.045		0.015	
9/15/1997	2.35	0.037		0.018	
9/22/1997	1.25	0.078	11.50	0.061	
9/29/1997	1.30	0.019	3.50	0.014	
10/6/1997	1.31	0.021	2.00	0.018	
#####	1.57	0.019	3.00	0.004	
#####	1.50	0.022	3.50	0.009	
#####	1.44	0.019	4.00	0.004	
11/3/1997	1.20	0.015	5.00	0.009	
#####	1.50	0.019	3.50	0.009	
#####	1.30	0.030	4.00	0.009	
#####	1.42	0.030	2.50	0.000	
12/1/1998	1.39	0.031	2.00	0.004	
12/8/1998	1.70	0.028	2.00	0.006	
#####	1.40	0.023	2.00	0.000	
#####	1.30	0.026	4.00	0.007	
#####	1.50	0.036	4.00	0.000	

Site: PR1 @ Floyd Lake Outlet at L. Floyd Rd
Zero at 1352.24

Date	gauge	totphos	suspsol	ortho	tail	Comments:
4/4/1997					19.10	

4/5/1997	2.60				19.10	water flowing TO LFL
4/8/1997	3.14					water flowing out of LI
4/9/1997	3.16					Flowing out of lake
4/12/1997	3.26					starting reading Mud I
4/23/1997	3.40	0.078	11.00	0.010	19.70	Water over guage
4/27/1997	3.36				19.68	
4/30/1997	3.31				19.58	
4/30/1997	2.30	0.056	8.00	0.032		
5/6/1997	2.21					
5/7/1997	3.04	0.056	8.00	0.032	19.30	
5/9/1997	2.04					
5/13/1997	2.91	0.061	7.00	0.034	19.06	
5/20/1997	2.73	0.037	-	0.007	18.72	
5/27/1997	2.85	0.040	-	0.009	19.05	
6/3/1997	2.76	0.007	-	0.000	18.60	
6/10/1997	2.58	0.058	13.00	0	18.24	
6/17/1997	2.48	0.021		0.006	18.10	
6/24/1997	2.55	0.025		0.007	18.54	
7/1/1997	2.64	0.026	8.50	0.008	18.98	
7/8/1997	2.70	0.016		0.000	19.08	
7/15/1997	2.68	0.033		0.020	19.12	
7/22/1997	2.58	0.022		0.015	18.93	
7/31/1997	2.40	0.009		0.000	19.61	
8/5/1997	2.40	0.018		0.012	18.48	
8/12/1997	2.36	0.024		0.007	18.69	
8/19/1997	2.30	0.019		0.007	18.78	
8/26/1997	2.30	0.019		0.006	18.80	(Little flow probably
9/2/1997	2.41	0.027		0.015	18.96	beaver between PR1
9/8/1997	2.40	0.030		0.020	18.44	& Rice Lake)
9/15/1997	2.38	0.028		0.014	18.36	
9/22/1997	2.20	0.013	2.50	0.000	18.10	
9/29/1997	2.32	0.015		0.012	18.18	
10/6/1997	2.34	0.016		0.012	18.10	
#####	2.55	0.022		0.009	19.04	
#####	2.54	0.027		0.015	18.90	
#####	2.45	0.024		0.004	18.60	
11/3/1997	2.40	0.019		0.010	18.90	
#####	2.44	0.021		0.009	18.78	
#####	2.42	0.028		0.006	18.42	
#####	2.48	0.030		0.000	18.45	
12/1/1998	2.40	0.033		0.000	18.32	
12/8/1998	2.10	0.031		0.004	18.00	
#####	2.35	0.024		0.006	17.95	
#####	2.30	0.028		0.006	18.00	
#####	2.50	0.029		0.000	17.90	
		0.029		0.009568		

Site: PR 2 @ Anchor Road and PR

Date	gauge	totphos	suspsol	Comments:
4/5/1997	3.10			Water across the road
4/5/1997				Water over Road
4/8/1997				gauged submerged
4/9/1997	?			2" below top of wood
4/12/1997	3.20			
4/16/1997	3.15			
4/16/1997	3.20			
4/22/1997	3.00			
4/29/1997	2.55			
4/30/1997	2.48			
5/5/1997	2.35			
5/7/1997	2.29			
5/15/1997	2.10			
5/18/1997	2.05			
5/20/1997	1.98			
5/26/1997	2.45			
5/27/1997	2.30			
5/28/1997	2.24			
8/28/1997	1.80			Little flow

Site: PR 3 @ Hwy 34 at PR

Date	upstrm	totphos	suspsol	ortho	tail	downstrm	Comments:
3/25/1997	1.02					14.63	
3/26/1997	1.08	0.084	4.50			14.62	
3/27/1997	1.05						
3/28/1997	1.16					14.72	
3/31/1997	1.48					15.02	
4/1/1997	2.00					15.50	
4/2/1997	2.68	0.078	5.00			16.10	
4/2/1997	2.85					16.30	
4/3/1997	3.00					16.30	
4/4/1997	3.60						
4/5/1997	3.80					16.80	
4/7/1997	5.18						
4/8/1997	5.00						tail covered with snow
4/9/1997	4.68	0.116	6.00	0.000		ice	
4/10/1997	4.30						
4/10/1997	4.36						
4/11/1997	3.90						
4/12/1997	3.92					16.70	
4/14/1997	3.96					16.68	
4/14/1997	3.96						
4/15/1997	3.96					16.71	
4/15/1997	3.98						
4/16/1997	3.80	0.096				16.80	
4/16/1997	4.00					16.76	
4/16/1997	4.00					16.80	

4/17/1997	3.90				
4/17/1997	3.88				16.72
4/18/1997	3.87				16.68
4/21/1997	3.68				16.56
4/21/1997	3.70				
4/22/1997	3.60				16.54
4/23/1997	3.48				16.44
4/23/1997	3.48	0.048	5.00	0.000	16.50
4/23/1997	3.52				
4/24/1997	3.37				16.36
4/25/1997	3.24				16.26
4/27/1997	3.06				16.32
4/28/1997	3.00				16.14
4/29/1997	2.90				16.14
4/30/1997	2.82				16.15
4/30/1997	2.84	0.056	5.50		16.14
5/1/1997	2.78				16.10
5/2/1997	2.69				16.04
5/5/1997	2.60				
5/5/1997	2.58				15.96
5/6/1997	2.47				15.88
5/7/1997	2.38	0.061	6.50	0.034	15.81
5/7/1997	2.40				15.80
5/8/1997	2.44				15.86
5/9/1997	2.40				15.80
5/12/1997	2.29				15.71
5/13/1997	2.21	0.053	5.00	0.026	15.67
5/14/1997	2.20				15.64
5/15/1997	2.12				15.57
5/16/1997	2.08				15.52
5/19/1997	1.87				15.33
5/20/1997	1.79	0.053	2.00	0.015	15.28
5/27/1997	2.58	0.051	-	0.010	15.95
6/3/1997	1.88	0.035	-	0.020	15.32
6/10/1997	1.46	0.028		0.018	14.95
6/17/1997	1.21	0.034		0.018	14.80
6/24/1997	1.80	0.099		0.026	15.27
7/1/1997	3.18	0.087		0.050	16.52
7/8/1997	2.89	0.082		0.018	16.35
7/15/1997	2.70	0.331		0.314	16.23
7/22/1997	2.48	0.224		0.158	16.02
7/31/1997	1.30	0.063		0.061	15.08
8/5/1997	1.68	0.067		0.061	15.22
8/12/1997	1.29	0.054		0.040	15.08
8/19/1997	1.30	0.048		0.039	14.90
8/26/1997	0.98	0.075		0.009	14.60

Site: PR4 / PR 5 gauge at Corbett; Sample at NSD

Date	gauge	totphos	suspsol	ortho
3/25/1997	0.60			

Comments:

3/26/1997	0.67	0.103	19.00	0.099
3/27/1997	0.80			
3/28/1997	0.66			
3/31/1997	1.04			
4/1/1997	1.34			
4/2/1997	1.95	0.160	15.00	0.039
4/3/1997	2.30			
4/7/1997	3.55			
4/9/1997	3.55	0.114	11.00	0.081
4/10/1997	3.10			
4/11/1997	2.96			
4/12/1997	2.86			
4/13/1997	2.80			
4/14/1997	2.96			
4/15/1997	3.08			
4/16/1997	2.98	0.086		0.061
4/17/1997	2.96			
4/18/1997	2.91			
4/21/1997	2.80			
4/22/1997	2.80			
4/23/1997	2.69	0.050	4.50	0.015
4/25/1997	2.56			
4/27/1997	2.36			
4/28/1997	2.27			
4/28/1997	2.23			
4/30/1997	2.15			
4/30/1997	2.16	0.055	3.00	0.017
5/1/1997	2.10			
5/2/1997	2.06			
5/5/1997	1.87			
5/6/1997	1.83			
5/7/1997	1.80	0.061	4.50	0.026
5/8/1997	1.90			
5/9/1997	1.80			
5/12/1997	1.68			
5/13/1997	1.62	0.063	5.00	0.028
5/13/1997	1.61			
5/14/1997	1.60			
5/15/1997	1.56			
5/16/1997	1.52			
5/19/1997	1.43			
5/20/1997	1.27	0.035	2.00	0.017
5/27/1997	1.98	0.038	2.50	0.017
6/3/1997	1.32	0.038	5.00	0.020
6/10/1997	0.97	0.042	4.50	0.018
6/17/1997	0.90	0.063		0.037
6/24/1997	1.44	0.171		0.122
6/30/1997		0.147	7.50	0.127
7/1/1997	2.58	0.170	6.00	0.080
7/8/1997	2.44	0.072	3.50	0.015
7/15/1997	2.11	0.200	3.00	0.176

Guage appears to be covered by water Son post though, so it is h: estimate

7/22/1997	2.55	0.192	13.00	0.154
7/31/1997	1.42	0.072	6.50	0.058
8/5/1997	1.50	0.060	3.00	0.055
8/12/1997	1.37	0.046	6.50	0.036
8/19/1997	1.31	0.043	2.50	0.039
8/26/1997	1.06	0.051	6.00	0.040
9/2/1997		0.049		0.017
9/10/1997		0.045	4.00	0.025
9/22/1997		0.030	4.50	0.039
9/29/1997		0.028	4.00	0.017
10/6/1997		0.025	4.50	0.014
#####		0.125	17.00	0.031
#####		0.102	10.00	0.026
#####		0.072	7.50	0.018
11/3/1997		0.052	6.00	0.018
#####		0.049	7.00	0.015
#####		0.030	4.50	0.017
#####		0.040	6.50	0.017
12/1/1998		0.042	3.00	0.012
12/8/1998		0.041	4.00	0.010
#####		0.037	3.00	0.023
#####				iced

Site: PR 4a Long Ave.

Date	gauge	totphos	suspsol	Comments:
3/25/1997	1.08			
3/28/1997	1.61			
3/31/1997	1.95			
4/1/1997	2.10			
4/2/1997	2.46			
4/2/1997	2.30			
4/5/1997	3.24			
4/6/1997	Ice			Over gauge
4/7/1997	ice			Over gauge
4/8/1997	ice			
4/9/1997				Over Gauge
4/10/1997				Over gauge
4/11/1997				Over gauge
4/12/1997				Over gauge
4/13/1997				Just over gauge
4/14/1997				.68 ft between top of
4/15/1997				Ring Joint
4/30/1997	2.78			
5/5/1997	2.51			
5/6/1997	2.46			
5/7/1997	2.43			
5/7/1997	2.42			
5/8/1997	2.43			
5/9/1997	2.42			

5/12/1997	2.34
5/13/1997	2.30
5/14/1997	2.28
5/15/1997	2.24
5/16/1997	2.20
5/19/1997	2.06
5/20/1997	2.02
5/27/1997	2.56
6/3/1997	2.06
6/10/1997	1.75
6/17/1997	1.58
6/24/1997	2.02
6/30/1997	3.21
7/1/1997	2.90
7/8/1997	2.60
7/15/1997	2.31
7/22/1997	2.20
7/31/1997	1.65
8/5/1997	1.68
8/12/1997	1.56
8/19/1997	1.45
8/26/1997	1.28
9/2/1997	1.98
9/8/1997	1.65
9/15/1997	1.50
9/22/1997	1.60
9/29/1997	1.50
10/6/1997	1.47
#####	2.30
#####	1.90
#####	1.85
11/3/1998	2.00
#####	2.05
#####	1.70
#####	1.50
12/1/1998	0.85
12/8/1998	1.50
#####	1.70
#####	1.30
#####	1.50

Site: PR6 Outlet from Detroit Lake

Date	gauge	totphos	suspsol	Ortho	Comments:
1/8/1997	4.55	0.011	2.60	0.009	
1/15/1997	4.42	0.015	1.67	0.007	
1/24/1997	4.52	0.015	1.00	0.015	
1/30/1997	4.41	0.014	2.00	0.012	
2/5/1997	4.33	0.023	3.00	0.017	
2/13/1997	4.35	0.023	3.00	0.017	

2/19/1997	4.31	0.022	2.67	0.012
2/26/1997	4.29	0.017	1.00	0.000
3/5/1997	4.42	0.021	1.67	0.015
3/12/1997	4.34	0.026	2.00	0.010
3/19/1997	4.36	0.027	3.00	0.015
3/25/1997	4.37			
3/26/1997	4.36	0.018	0.00	0.006
3/27/1997	4.32			
3/28/1997	4.37			
3/31/1997	4.40			
4/1/1997	4.42			
4/2/1997	4.44	0.027	1.67	0.010
4/3/1997	4.53			
4/7/1997	5.08			
4/8/1997	5.16			
4/9/1997	5.21			
4/10/1997	5.28	0.028	2.00	0.018
4/11/1997	5.31			
4/12/1997	5.32			
4/13/1997	5.38			
4/14/1997	5.42			
4/15/1997	5.45			
4/16/1997	5.45	0.033		0.018
4/16/1997	5.48			
4/17/1997	5.51			
4/18/1997	5.43			
4/21/1997	5.58			
4/22/1997	5.58			
4/23/1997	5.59	0.028	4.50	0.007
4/24/1997	5.59			
4/25/1997	5.58			
4/27/1997	5.56			
4/28/1997	5.56			
4/29/1997	5.52			
4/29/1997	5.50			
4/30/1997	5.50	0.032	4.00	0.009
5/1/1997	5.48			
5/2/1997	5.36			
5/6/1997	5.35			
5/7/1997	5.34	0.033	4.50	0.017
5/8/1997	5.33			
5/9/1997	5.33			
5/12/1997	5.26			
5/13/1997	5.24	0.063	5.00	0.028
5/13/1997	5.26			
5/14/1997	5.18			
5/15/1997	5.17	0.040	5.00	0.023
5/15/1997	5.16			
5/16/1997	5.14			
5/19/1997	5.06			
5/22/1997	5.00	0.028	0.50	0.009

5/29/1997	5.10	0.032	3.50	0.004
6/5/1997	5.19	0.022	-	0.018
6/12/1997	4.79	0.039	-	0.009
6/19/1997	4.64	0.025	-	0.004
6/26/1997	4.85	0.031		0.007
7/3/1997	5.28	0.034		0.009
7/10/1997	5.35	0.013		0.004
7/17/1997	5.30	0.006		0.000
7/24/1997	5.18	0.015		0.004
7/29/1997	4.96	0.015		0.000
8/7/1997	4.82	0.019		0.007
8/14/1997	4.69	0.021		0.006
8/21/1997	4.55	0.013		0.007
8/28/1997	4.51	0.015		0.004
9/2/1997	4.69	0.025		0.006
9/8/1997	4.65	0.028		0.014
9/15/1997	4.61	0.027		0.009
9/22/1997	4.50	0.028		0.004
9/27/1997	4.48	0.025		0.017
10/6/1997	4.46	0.018		0.004
#####	4.70	0.009		0.007
#####	4.68	0.010		0.000
#####	4.60	0.012		0.000
11/3/1997	4.15	0.015		0.004
#####	4.15	0.018		0.006
#####	4.55	0.015		0.004
#####	4.55	0.020		0.010
12/1/1998	4.50	0.026		0.007
12/8/1998	4.40	0.028		0.009
#####	4.40	0.026		0.006
#####	4.45	0.018		0.000
#####	4.50	0.018		0.000

Site: PR7 Muskrat outlet at Dunton Locks

Date	Muskrat gauge	totphos	suspsol	Ortho	Dos	Comments:
1/8/1997	4.68	0.007	4.00	0.009		
1/15/1997	4.58	0.017	2.00	0.018		
1/24/1997	4.61	0.017	1.00	0.018		
1/30/1997	4.53	0.014	2.00	0.014	3.10	
2/5/1997	4.50	0.022	2.50	0.020	3.30	
2/13/1997	4.48	0.037	3.00	0.020	2.27	
2/19/1997	4.48	0.039	3.00	0.018	1.95	
2/26/1997	4.48	0.029	2.00	0.012	1.55	
3/5/1997	4.56	0.036	2.50	0.017	2.25	
3/12/1997	4.52	0.037	3.00	0.018		
3/19/1997	4.51	0.041	3.50	0.018		
3/23/1997	4.54				2.60	
3/26/1997	4.53	0.045	2.50	0.023		
3/27/1997	4.54					

3/28/1997	4.56				
3/31/1997	4.59				
4/1/1997	4.58				
4/1/1997	4.61				
4/2/1997	4.63	0.040	3.00	0.021	
4/3/1997	4.67				
4/4/1997	4.72				
4/7/1997	5.14				
4/7/1997	5.13				
4/8/1997	5.20				
4/9/1997	5.26	0.096	4.00	0.066	
4/10/1997	5.30				
4/12/1997	5.36				
4/13/1997	5.38				
4/14/1997	5.41				
4/15/1997	5.43				
4/16/1997	5.45	0.089	2.00	0.055	
4/16/1997	5.46				
4/17/1997	5.47				
4/18/1997	5.50				
4/20/1997	5.52				
4/21/1997	5.48				off the meter
4/22/1997	5.55				off the meter
4/23/1997	5.52	0.046	3.50	0.017	
4/24/1997	5.48				off the meter
4/25/1997	5.48				off the meter
4/27/1997	5.50				
4/29/1997	5.50				
4/30/1997	5.48	0.045	3.50	0.018	
5/1/1997	5.47				
5/5/1997	5.36				
5/7/1997	5.34	0.041	4.00	0.017	
5/8/1997	5.34				
5/9/1997	5.35				
5/12/1997	5.29				
5/13/1997	5.28				
5/13/1997	5.25				
5/14/1997	5.22				
5/15/1997	5.20	0.045	5.00	0.018	
5/16/1997	5.18				
5/19/1997	5.12				
5/20/1997	5.10				
5/22/1997	5.10	0.027	2.00	0.010	
5/27/1997	5.16				
5/29/1997	5.20	0.038	2.50	0.020	
6/2/1997	5.10				
6/5/1997	5.04	0.063	4.00	0.014	
6/12/1997	4.84	0.048	3.50	0.000	
6/19/1997	4.70	0.048		0.004	
6/26/1997	4.92	0.052	3.00	0.006	
7/3/1997	5.32	0.057	5.50	0.007	

7/10/1997	5.26	0.043	1.50	0.017
7/17/1997	5.26	0.055	4.50	0.020
7/24/1997	5.15	0.045	5.00	0.034
7/29/1997	5.00	0.037	3.00	0.000
8/7/1997	4.90	0.031	2.50	0.009
8/14/1997	4.74	0.030	6.00	0.018
8/21/1997	4.69	0.030	4.50	0.007
8/26/1997	4.68	0.031	2.50	0.006
9/2/1997	4.80	0.034		0.015
9/8/1997	4.76	0.037	5.00	0.018
9/15/1997	4.74	0.042	4.50	0.015
9/22/1997	4.64	0.034	5.50	0.012
9/29/1997	4.64	0.037	4.50	0.017
10/6/1997	4.58	0.028	4.00	0.028
#####	4.80	0.030	2.50	0.004
#####	4.82	0.034	5.50	0.007
#####	4.72	0.027	4.00	0.007
11/3/1997	4.78	0.024	5.00	0.009
#####	4.78	0.026	4.00	0.007
#####	4.76	0.023	3.50	0.007
#####	4.72	0.025	3.00	0.009
12/1/1998	4.50	0.028	3.50	0.006
12/8/1998	4.70	0.025	4.00	0.007
#####	4.55	0.028	2.50	0.007
#####	4.60	0.018	1.00	0.006
#####	4.60	0.020	2.00	0.000

Site: PR 8 Sallie Outlet at Shoreham

Date	gauge	totphos	suspsol	Sallie Gauge at Dunton Locks		Comments:
				Ortho	Sallie	
1/8/1997	1.58	0.023	3.00	0.002		
1/15/1997	1.68	0.023	1.33	0.018		
1/24/1997	1.62	0.025	0.66	0.023		
1/30/1997	1.54	0.015	2.00	0.014		
2/5/1997	1.47	0.022	2.67	0.020	1.91	
2/13/1997	1.48	0.028	2.70	0.018	1.85	
2/19/1997	1.48	0.023	3.00	0.018		
2/26/1997	1.39	0.023	1.00	0.004	1.66	
3/5/1997	1.42	0.031	2.00	0.018	1.70	
3/12/1997	1.40	0.034	3.00	0.017	1.68	
3/19/1997	1.38	0.037	2.00	0.017	1.66	
3/26/1997	1.42	0.028	0.30	0.020	1.66	
3/27/1997	1.41				1.62	
3/26/1997	1.42				1.67	
3/31/1997	1.43				1.66	
4/2/1997	1.45	0.033	2.00	0.021	1.68	
4/3/1997					1.70	
4/4/1997					1.72	
4/7/1997	1.78				2.15	
4/8/1997					2.18	

4/9/1997	1.86	0.037	2.67	0.020	2.26
4/10/1997					2.36
4/12/1997	2.01				2.48
4/13/1997	2.08				2.54
4/14/1997					2.60
4/15/1997					2.66
4/16/1997	2.20	0.038		0.018	2.75
4/17/1997					2.78
4/18/1997	2.30				2.86
4/19/1997					2.88
4/20/1997					2.94
4/21/1997					2.98
4/22/1997					3.04
4/22/1997	2.40				3.05
4/23/1997	2.47	0.033	2.50	0.012	3.08
4/24/1997					3.10
4/25/1997					3.14
4/27/1997	2.59				3.18
4/28/1997					3.24
4/29/1997					3.15
4/30/1997					3.18
4/30/1997	2.65	0.037	4.00	0.012	3.20
5/5/1997	2.68				
5/6/1997					3.16
5/7/1997	2.67	0.040	3.50	0.018	3.15
5/8/1997					3.20
5/9/1997					3.18
5/12/1997					3.10
5/12/1997					3.08
5/13/1997					3.08
5/14/1997					3.08
5/14/1997					3.06
5/15/1997	2.57	0.043	5.50	0.021	3.06
5/16/1997					2.97
5/19/1997					2.94
5/20/1997					2.86
5/21/1997					2.84
5/22/1997	2.85	0.028	1.50	0.007	2.46
5/27/1997					2.90
5/29/1997					2.92
5/29/1997	2.90	0.038	-	0.017	2.48
6/2/1997					2.80
6/5/1997	2.39	0.022		0.017	2.76
6/12/1997	2.16	0.021	-	0.007	2.48
6/19/1997	1.96	0.027		0.006	2.22
6/26/1997	2.08	0.031		0.004	2.30
7/3/1997	2.28	0.034		0.009	2.50
7/10/1997	2.47	0.027		0.009	2.82
7/17/1997	2.58	0.013		0.006	2.84
7/24/1997	2.51	0.030		0.018	2.86
7/29/1997	2.40	0.027		0.000	2.72

8/7/1997	2.42	0.037	0.010	2.20
8/14/1997	2.04	0.042	0.021	2.19
8/21/1997	1.85	0.039	0.010	2.05
8/28/1997	1.78	0.033	0.007	2.50
9/2/1997	1.65			1.90
9/8/1997	1.74			1.87
9/15/1997	1.68	0.037	0.014	1.80
9/22/1997	1.54	0.030	0.007	1.70
9/29/1997	1.45	0.031	0.015	1.68
10/6/1997	1.55	0.025	0.015	1.70
#####	1.55	0.021	0.007	1.84
#####	1.62	0.018	0.009	1.88
#####	1.65	0.018	0.000	1.90
11/3/1997	1.72	0.019	0.009	1.95
#####	1.55	0.021	0.010	1.95
#####	1.55	0.020	0.010	2.00
#####	1.75	0.023	0.009	1.92
12/1/1998	1.75	0.026	0.009	2.00
12/8/1998	1.50	0.028	0.004	1.90
#####	1.70	0.024	0.004	1.60
#####	1.62	0.029	0.018	1.80
#####	1.60	0.028	0.004	1.75

Site: PR 9 Melissa Beach Resort

Bucks Mills

Date	gauge	totphos	suspsol	Bucks	Comments:
4/9/1997				5.31	
4/16/1997				5.45	
4/23/1997				5.59	
4/27/1997				5.64	
4/30/1997				5.66	
5/5/1997				5.66	
5/7/1997				5.68	
5/15/1997		0.045	6.00	0.023	5.64
5/22/1997	2.04	0.030	1.00	0.009	
5/29/1997	2.04	0.020	-	0.020	5.60
6/5/1997	1.91	0.015		0.017	
6/12/1997	1.69	0.039		0.009	
6/19/1997	1.48	0.016		0.009	
6/26/1997	1.70	0.021		0.010	
7/3/1997	1.84	0.027		0.012	
7/10/1997	1.95	0.018		0.007	
7/17/1997	2.12	0.006		0.000	
7/24/1997	2.01	0.015		0.000	
7/29/1997	1.92				
8/7/1997	1.71	0.022		0.007	
8/14/1997	1.48	0.015		0.000	
8/21/1997	1.32	0.024		0.007	
8/28/1997	1.20	0.022		0.006	

Site: SC3 @ St. Clair Outlet at Hwy 59, Putt N Pump

Date	gauge	totphos	suspsol	Ortho	Do	Comments:
1/8/1997	3.55	0.050	3.50	0.017		
1/15/1997	3.80	0.052	3.50	0.048		
1/24/1997	3.70	0.066	3.00	0.059		
1/30/1997	3.68	0.052	4.50	0.042		
2/5/1997	3.52	0.056	3.00	0.050		
2/13/1997	3.40	0.116	3.50	0.070		
2/19/1997	3.22	0.107	3.50	0.055		
2/26/1997	3.28	0.188	4.50	0.180		
3/5/1997	3.35	0.176	4.00	0.160	0.3	Estimate gauge snow
3/12/1997	3.25	0.159	3.50	0.113	0.22	DNR DO
3/19/1997	3.48	0.157	4.00	0.086		
3/21/1997					0.16	DNR DO
3/26/1997	3.28	0.265	1.50	0.215		
4/2/1997	3.80	0.251	2.50	0.160		
4/7/1997	4.84	0.139	3.50	0.083		
4/9/1997	4.82					
4/11/1997	4.80					
4/12/1997	4.79					
4/13/1997	4.80					
4/16/1997	4.78					
4/18/1997	4.75					
4/23/1997	4.62	0.080	7.00	0.023		
4/27/1997	4.48					
4/30/1997	4.34	0.086	5.50	0.025		
5/7/1997	3.89	0.094	6.00	0.05		
5/15/1997	3.87	0.089	7.00	0.045		
5/22/1997	3.70	0.045	2.50	0.02		
5/29/1997	4.10	0.080	-	0.025		
6/5/1997	3.88	0.079		0.026		
6/12/1997	3.52	0.082	-	0.036		
6/19/1997	3.50	0.096		0.061		
6/26/1997	4.00	0.082		0.042		
7/3/1997	4.80	0.092		0.045		was clogged w/debris, not flowin
7/10/1997	4.68	0.061		0.018		
7/17/1997	4.56	0.039		0.015		
7/24/1997	4.16	0.090		0.040		
7/29/1997	3.94	0.093		0.000		
8/7/1997	3.66	0.120		0.021		
8/12/1997	3.40	0.110		0.073		
8/21/1997	3.48	0.146		0.026		
8/28/1997	3.47	0.095		0.018		

Site: SC3a @ Ditch 14 at Cty Rd. 6 sample downstream

Date	gauge	totphos	suspol	ortho	comments
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5/15/1997	1.36	0.060	5.50	0.039
5/22/1997	1.05	0.040	-	0.017
5/29/1997	1.62	0.116	-	0.073
6/5/1997	1.38	0.158		0.135
6/12/1997	1.10	0.231		0.176
6/19/1997	1.22	0.149		0.173
6/26/1997	1.87	0.152		0.113
7/3/1997	2.75	0.164		0.114
7/10/1997	2.28	0.144		0.021
7/17/1997		0.085		0.036
7/24/1997	2.79	0.090		0.051
7/29/1997	2.58	0.082		0.023
8/7/1997	1.19	0.098		0.029
8/14/1997	0.91	0.104		0.067
8/21/1997	0.82	0.108		0.025
8/28/1997	0.80	0.114		0.047

Site: SC 4 @ Ditch 14 outlet to PR

Date	dwnstrm	totphos	suspsol	upstrm	ortho	Comments:
3/25/1997	1.08			ice		
3/26/1997	1.09	0.204	1.50	ice	0.65	
3/27/1997	1.11			ice		
3/28/1997	1.09			0.95		
3/31/1997	1.18			1.04		
4/1/1997	1.19			1.80		
4/2/1997	1.23	0.182	3.00	1.08	0.141	
4/3/1997	1.35			1.20		
4/7/1997	1.80					
4/8/1997	1.98			1.90		
4/9/1997	2.04	0.139	3.50	1.96	0.088	
4/10/1997	2.08			2.00		
4/11/1997	2.14			2.04		
4/12/1997	2.16			2.07		
4/13/1997	2.20			2.10		
4/14/1997	2.22			2.12		
4/15/1997	2.24			2.12		
4/16/1997	2.26			2.16		
4/17/1997	2.28			2.18		
4/18/1997	2.28			2.18		
4/21/1997	2.34			2.24		
4/22/1997	2.34			2.24		
4/23/1997	2.34			2.24		
4/23/1997	2.35	0.075	4.50	2.23	0.02	
4/24/1997	2.35			2.23		
4/25/1997	2.33			2.18		
4/27/1997	2.29			2.15		
4/28/1997	2.29			2.14		
4/29/1997	2.25			2.10		

U.S. culverts are plug flooding further west c

4/30/1997	2.23	0.078	5.00	2.08	0.021
5/1/1997	2.21			2.07	
5/2/1997	2.20			2.05	
5/5/1997	2.14			1.93	
5/6/1997	2.09			1.92	
5/7/1997	2.05			1.89	
5/7/1997	2.07	0.083	5.00	1.90	0.036
5/8/1997	2.07			1.92	
5/9/1997	2.07			1.90	
5/12/1997	1.96			1.82	
5/13/1997	1.95			1.80	
5/14/1997	1.91			1.76	
5/15/1997	1.87	0.086	6.00	1.71	0.04
5/16/1997	1.86			1.70	
5/19/1997	1.87			1.71	
5/22/1997	1.71	0.040	1.00	1.56	0.015
5/29/1997	1.85	0.136	-	1.72	0.088
6/5/1997	1.68	0.216	5.00	1.55	0.184
6/12/1997	1.48	0.230	2.50	1.30	0.206
6/19/1997	1.36	0.159	1.00	1.18	0.177
6/26/1997	1.58	0.146	1.50	1.49	0.121
7/3/1997	1.98	0.152	1.00	1.92	0.127
7/10/1997	2.02	0.079	2.50	1.99	0.025
7/17/1997	2.02	0.102	6.00	1.98	0.05
7/24/1997	1.82	0.079	7.00	1.78	0.051
7/29/1997	1.67	0.073	4.00	1.59	0.031
8/7/1997	1.50	0.098	3.00	1.38	0.055
8/14/1997	1.34	0.102	4.00	1.19	0.061
8/21/1997	1.28	0.101	3.50	1.15	0.043
8/28/1997	1.24	0.129	3.00	1.06	0.081
9/2/1997	1.40	0.110		1.24	0.042
9/8/1997	2.26	0.096	7.50	1.38	0.034
9/15/1997	2.19	0.082	6.00	1.40	0.026
9/22/1997	2.03	0.052	6.50	1.23	0.018
9/29/1997	1.21	0.045	7.00	1.00	0.037
10/6/1997	1.20	0.107	5.50	1.04	0.055
#####	1.42	0.075	9.50	1.26	0.017
#####	1.40	0.070	10.00	1.24	0.014
#####	1.34	0.052	11.00	1.14	0.02
11/3/1997	1.36	0.049	7.00	1.20	0.018
#####	1.30	0.049	7.50	1.16	0.018
#####	1.43	0.028	5.00	1.20	0.012
#####	1.30	0.028	4.50	1.15	0.010
12/1/1998	1.15	0.031	4.00	1.10	0.000
12/8/1998	1.70	0.029	4.50	1.60	0.009
#####	1.55	0.033	4.50	1.40	0.010
#####	1.20	0.039	2.50	1.00	0.018
#####	1.20	0.037	2.50	1.00	0.012

Site: SE 1 @ Drainage from Lind Lake at Hwy 59

Date	gauge	totphos	suspsol	ortho	Comments:
5/15/1997	2.11	0.070	5.50	0.034	
5/22/1997	1.96	0.037	0.00	0.017	
5/29/1997	1.98	0.030	-	0.021	
6/5/1997	1.86	0.043		0.018	
6/12/1997	1.74	0.043	-	0.018	
6/19/1997	1.40	0.028		0.020	
6/26/1997	1.76	0.030		0.020	
7/3/1997	1.96	0.034		0.018	
7/10/1997	1.96	0.031		0.007	
7/17/1997	2.10	0.027		0.009	
7/24/1997	2.00	0.057		0.034	
7/29/1997	1.88	0.054		0.006	
8/7/1997	1.70	0.045		0.014	
8/14/1997	1.49	0.040		0.017	
8/22/1997	1.29	0.025		0.010	
8/28/1997	1.20	0.039	0.01		

Site: LL 1 @ Long Lake Outlet Gauge zero @ Bergs = 1342.00

Date	gauge	totphos	suspsol	ortho	Comments:
5/15/1997	4.46	0.139	3.50	0.105	
5/22/1997	4.39	0.073	3.00	0.018	.013 tp upstream
5/29/1997	4.50	0.023	-	0.007	.030 and .018 OP str
6/5/1997	4.40	0.019		0.021	
6/12/1997	4.28	0.021	-	0.009	
6/19/1997	4.26	0.021		0.007	
6/26/1997	4.42	0.024		0.009	
7/3/1997	4.60	0.027		0.012	
7/10/1997	4.58	0.006		0.000	
7/17/1997	4.54	0.012		0.004	
7/24/1997	4.44	0.018		0.006	
7/29/1997	4.40	0.015		0.000	
8/7/1997	4.36	0.010		0.009	
8/14/1997	4.36	0.022		0.014	
8/21/1997	4.29	0.009		0.007	
8/28/1997	4.26	0.003		0.009	

Site: LL inlet

Date	gauge	totphos	suspsol	ortho
5/6/1997		0.146	5	0.113
5/27/1997		0.056		0.018
6/23/1997		0.269	9	0.218
6/30/1997		0.282	11.00	0.223
7/14/1997		0.457		0.388

Site: SU 1 @ Sucker Creek at South Shore Dr.

Date	gauge	totphos	suspsol	upsrtm	ortho
4/12/1997	1.85	0.078	10.00	2.15	0.034
4/14/1997	1.90			2.23	
4/16/1997	1.95			2.50	
4/20/1997	2.05			2.38	
4/21/1997	2.10			2.38	
4/23/1997	2.10			2.35	
4/26/1997	2.05			2.35	
4/28/1997	2.05			2.30	
5/2/1997	2.00			2.25	
5/6/1997	2.05			2.25	
5/7/1997	2.10			2.35	
5/8/1997	2.15			2.40	
5/13/1997	1.67	0.078	10.00	1.98	
5/20/1997	1.57			1.86	
5/27/1997	1.60			1.88	
6/3/1997	1.46			1.72	
6/10/1997	1.26			1.54	
6/17/1997	1.18			1.35	
6/24/1997	1.31			1.58	
7/1/1997	1.55			1.82	
7/8/1997	1.85			2.11	
7/15/1997	1.85			2.11	
7/22/1997	1.65			1.94	
7/31/1997	1.68			1.45	
8/5/1997	1.28			1.54	
8/12/1997	1.20			1.49	
8/19/1997	1.21			1.48	
8/26/1997	1.16			1.30	

Site: SU2 @ at Hwy 149

Date	gauge	totphos	suspsol	ortho	Comments:
4/3/1997	2.64				
4/14/1997	2.30	0.161	13.00	0.117	
4/15/1997	2.30				
4/17/1997	2.00				

Site: Munson Lake @ Access

Date	gauge	totphos	suspsol	Comments:
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DNR: Pond outlet (no gauge)

Comments:

Date	gauge	totphos	suspsol
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7/18/1997	0.056	?	
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Rice Lake

Date	gauge
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8/28/1997	3.8
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Comments:

Small flow

ockage

N

im gage

gone

nd snow

ad

FL

lake at zero 1353.24

d

on gage

v overhang

completely
ne ice on the
ard to read

gauge & the collar

' covered

ig well

ged by floating bogs causing
on little road

eam