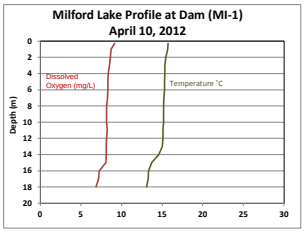
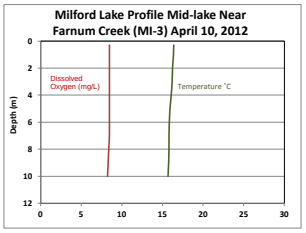
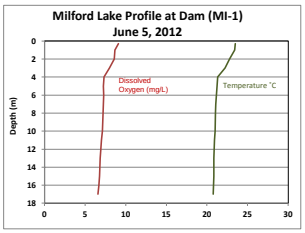
Date MMDDYY	Time HHMMSS	Temp øC	Conductivity uS/cm	pH Units	Turbidity NTU	PCY cell/mL	D.O. mg/l	LDO %Sat	Depth (M) meters	Site #	Secchi Depth (m)	Lake level	OUTFLOW CFS
4/10/2012	11:27:15	15.3	672	8.6	7.7	237	10.2	105.7	0.3	MI 1A			
4/10/2012	11:45:26	15.7	669	8.9	2.5	0	9.1	95.5	0.3	MI 1	1.90		
4/10/2012	11:45:36	15.7	669	8.5	2.4	57	8.7	90.7	1.0				
4/10/2012	11:45:43	15.4	669	8.9	2.5	140	8.6	89.7	2.0				
4/10/2012	11:45:52	15.3	670	8.8	3.0	317	8.5	88.1	3.0				
4/10/2012	11:46:05	15.3	670	8.9	3.6	176	8.4	86.7	4.0				
4/10/2012	11:46:21	15.3	670	8.8	4.7	174	8.3	86.2	5.0				
4/10/2012	11:46:37	15.3	670	8.7	5.2	170	8.3	86.3	6.0				
4/10/2012	11:46:53	15.2	669	8.9	5.6	177	8.3	85.6	7.0				
4/10/2012	11:47:14	15.2	669	8.8	6.3	216	8.2	84.3	8.0				
4/10/2012	11:47:35	15.2	669	8.8	6.6	185	8.1	84.2	9.0				
4/10/2012	11:47:54	15.2	669	8.8	6.5	187	8.2	84.3	10.0				
4/10/2012	12:02:00	15.1	668	8.8	4.5	201	8.2	84.9	11.0				
4/10/2012	12:02:07	15.1	669	8.8	4.7	201	8.1	83.9	12.0				
4/10/2012	12:02:15	15.0	668	8.8	5.0	182	8.1	83.6	13.0				
4/10/2012	12:02:23	14.6	668	8.8	6.0	195	8.1	82.6	14.0				
4/10/2012	12:02:30	13.7	662	8.7	13.3	224	8.1	80.7	15.0				
4/10/2012	12:02:40	13.3	661	8.7	10.6	253	7.2	71.9	16.0				
4/10/2012	12:02:46	13.3	659	8.6	17.1	275	7.2	71.3	17.0				
4/10/2012	12:03:00	13.1	661	8.6	1261.0	435	6.8	67.5	18.0				
4/10/2012	12:30:15	16.4	677	8.8	7.8	419	8.5	89.8	0.3	MI 3	0.90		
4/10/2012	12:30:31	16.3	677	8.8	7.9	293	8.5	89.7	1.0				
4/10/2012	12:30:40	16.3	677	8.8	8.0	357	8.5	89.6	2.0				
4/10/2012	12:30:51	16.2	676	8.8	8.0	426	8.5	89.4	3.0				
4/10/2012	12:30:58	16.1	676	8.8	7.9	436	8.5	89.3	4.0				
4/10/2012	12:31:04	15.9	678	8.8	7.2	364	8.5	89.1	5.0				
4/10/2012	12:31:15	15.8	677	8.8	6.3	229	8.5	88.9	6.0				
4/10/2012	12:31:25	15.8	677	8.8	5.4	202	8.5	88.7	7.0				
4/10/2012	12:31:36	15.8	679	8.8	4.6	198	8.4	87.8	8.0				
4/10/2012	12:31:50	15.8	678	8.8	4.7	221	8.3	86.9	9.0				
4/10/2012	12:32:00	15.7	680	8.8	14.6	247	8.2	86.0	10.0				
4/10/2012	13:45:36	16.6	846	8.7	119.9	3182	8.7	93.2	0.3	MI 5	0.20		
4/10/2012	13:45:44	16.6	844	8.6	118.4	3171	8.3	88.5	1.0				
4/10/2012	13:45:54	16.6	832	8.8	122.2	3092	8.0	84.7	2.0				
4/10/2012	13:46:01	16.3	849	8.6	129.9	3098	7.9	84.0	3.0				
4/10/2012	14:38:12	17.5	878	8.6	165.7	3896	9.2	100.2	0.3	MI 24			

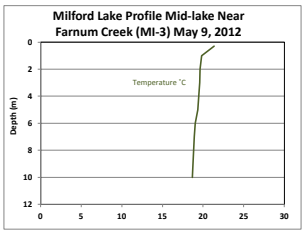
outflow



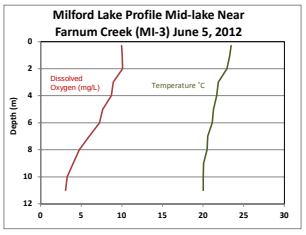


Date MMDDYY	Time HHMMSS	Temp øC	Conductivity uS/cm	pH Units	Turbidity NTU	PCY cell/mL	D.O. mg/l	LDO %Sat	Depth (M) meters	Site #	Secchi Depth (m)	Lake level	OUTFLOW CFS
5/9/2012	11:51:09	20.1	650	8.3	32.9	749	ygen probe fail		0.3	MI 1	2.20		
5/9/2012	11:51:21	20.0	649	8.3	32.9	761			1.0				
5/9/2012	11:51:29	19.9	649	8.3	32.9	783			2.0				
5/9/2012	11:51:38	19.9	651	8.3	32.9	769			3.0				
5/9/2012	11:51:50	19.4	648	8.2	32.9	708			4.0				
5/9/2012	11:51:57	19.3	649	8.2	32.9	596			5.0				
5/9/2012	11:52:04	19.2	648	8.2	33.0	460			6.0				
5/9/2012	11:52:12	19.2	648	8.2	33.0	480			7.0				
5/9/2012	11:52:19	19.1	649	8.2	33.0	481			8.0				
5/9/2012	11:52:37	19.1	649	8.2	33.1	405			9.0				
5/9/2012	11:53:06	19.0	649	8.2	33.1	389			10.0				
5/9/2012	11:53:19	19.0	649	8.2	33.1	365			11.0				
5/9/2012	11:53:26	19.0	649	8.2	33.1	322			12.0				
5/9/2012	11:53:40	19.0	649	8.2	33.2	287			13.0				
5/9/2012	11:53:53	18.9	649	8.2	33.2	260			14.0				
5/9/2012	11:54:04	18.8	649	8.2	33.3	287			15.0				
5/9/2012	11:54:25	18.7	650	8.1	34.6	319			16.0				
5/9/2012	11:54:51	18.7	649	8.1	34.4	314			17.0				
5/9/2012	11:55:11	18.5	650	8.1	35.4	321			18.0				
5/9/2012	12:27:34	21.4	664	8.1	36.6	1156			0.3	MI 3	0.50		
5/9/2012	12:28:01	19.8	661	8.1	36.0	949			1.0				
5/9/2012	12:28:07	19.6	662	8.1	35.9	819			2.0				
5/9/2012	12:28:18	19.6	662	8.1	35.8	684			3.0				
5/9/2012	12:28:37	19.5	657	8.1	35.6	588			4.0				
5/9/2012	12:28:47	19.4	654	8.1	35.4	559			5.0				
5/9/2012	12:28:59	19.0	649	8.1	34.4	472			6.0				
5/9/2012	12:29:11	18.9	650	8.1	34.4	424			7.0				
5/9/2012	12:29:19	18.8	649	8.1	34.5	418			8.0				
5/9/2012	12:29:27	18.8	647	8.1	34.5	402			9.0				
5/9/2012	12:29:36	18.7	649	8.1	37.0	439			10.0				
5/9/2012	10:40:29	20.1	812	8.6	53.4	9271			0.3	MI 5	0.25		
5/9/2012	11:15:06	19.1	650	8.2	33.9	782			0.3	MI 1A			
5/9/2012	10:12:53	19.1	926	8.3	32.3	5803			0.3	MI 24			

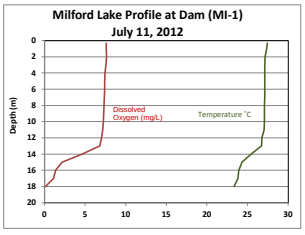


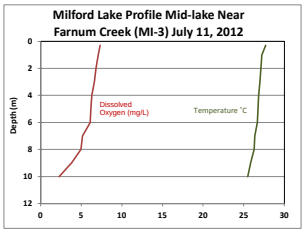


Date MMDDYY	Time HHMMSS	Temp øC	Conductivity uS/cm	pH Units	Turbidity NTU	PCY cell/mL	D.O. mg/l	LDO %Sat	Depth (M) meters	Site #	Secchi Depth (m)	Lake level	OUTFLOW CFS
6/5/2012	11:50:26	23.5	675	8.7	4.8	29	9.1	108.0	0.3	MI 1	1.20	1144.16	125
6/5/2012	11:50:33	23.4	675	8.7	4.7	0	8.7	102.5	1.0				
6/5/2012	11:50:56	22.8	675	8.6	4.9	743	8.6	100.3	2.0				
6/5/2012	11:51:12	22.2	676	8.5	4.8	381	8.0	92.3	3.0				
6/5/2012	11:51:34	21.3	676	8.5	4.5	239	7.3	83.0	4.0				
6/5/2012	11:51:47	21.3	675	8.5	4.7	231	7.3	82.2	5.0				
6/5/2012	11:51:55	21.2	675	8.5	4.8	209	7.3	82.4	6.0				
6/5/2012	11:52:14	21.1	676	8.6	5.8	234	7.3	81.9	7.0				
6/5/2012	11:52:23	21.0	677	8.5	6.6	238	7.2	81.3	8.0				
6/5/2012	11:52:29	21.0	677	8.5	7.1	241	7.2	80.6	10.0				
6/5/2012	11:52:44	20.9	678	8.4	8.6	261	7.0	78.7	11.0				
6/5/2012	11:52:52	20.9	678	8.5	9.6	272	6.9	78.0	12.0				
6/5/2012	11:52:59	20.9	679	8.5	10.9	293	6.9	77.2	13.0				
6/5/2012	11:53:07	20.9	678	8.5	12.1	318	6.8	76.7	14.0				
6/5/2012	11:53:13	20.8	679	8.5	18.8	342	6.8	76.0	15.0				
6/5/2012	11:53:19	20.8	679	8.5	22.5	357	6.7	75.2	16.0				
6/5/2012	11:53:26	20.8	680	8.4	31.8	386	6.6	74.0	17.0				
6/5/2012	12:19:33	23.5	681	8.7	8.0	915	10.0	117.9	0.3	MI 3	0.95		
6/5/2012	12:19:40	23.3	682	8.7	7.9	968	10.0	118.1	1.0				
6/5/2012	12:19:46	22.9	675	8.7	8.0	951	10.1	117.8	2.0				
6/5/2012	12:19:56	21.9	678	8.6	7.3	615	8.9	102.4	3.0				
6/5/2012	12:20:05	21.7	682	8.6	7.1	359	8.7	99.5	4.0				
6/5/2012	12:20:12	21.3	708	8.5	15.6	306	7.6	86.5	5.0				
6/5/2012	12:20:21	21.1	712	8.4	17.8	343	7.3	81.9	6.0				
6/5/2012	12:20:27	20.6	719	8.3	31.1	404	6.0	66.9	7.0				
6/5/2012	12:20:42	20.5	720	8.2	32.6	507	4.8	53.0	8.0				
6/5/2012	12:20:48	20.1	741	8.1	44.3	551	4.0	44.6	9.0				
6/5/2012	12:21:00	20.0	741	8.1	46.1	673	3.3	36.1	10.0				
6/5/2012	12:21:10	20.0	741	8.1	498.0	721	3.1	33.8	11.0				
6/5/2012	12:46:29	25.8	917	8.8	61.6	4696	12.2	151.1	0.3	MI 5	0.30		
6/5/2012	10:54:15	21.9	689	8.3	13.0	298	8.9	102.3	0.3	MI 1A			



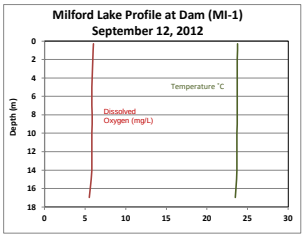
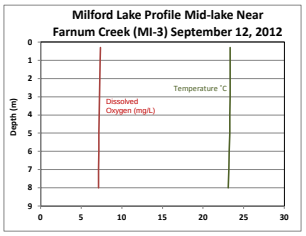
Date MMDDYY	Time HHMMSS	Temp øC	Conductivity uS/cm	pH Units	Turbidity NTU	PCY cell/mL	D.O. mg/l	LDO %Sat	Depth (M) meters	Site #	Secchi Depth (m)	Lake level	outflow
7/11/2012	9:55:31	24.8	690	8.5	0.0	4242	8.2	98.6	0.2	MI 1A		1145.08	325
7/11/2012	10:17:29	27.4	692	8.8	0.0	10388	7.6	96.3	0.3	MI 1	2.40		
7/11/2012	10:17:37	27.3	692	8.8	0.0	9899	7.6	96.2	1.0				
7/11/2012	10:17:44	27.2	692	8.8	0.0	10813	7.6	96.3	2.0				
7/11/2012	10:17:53	27.1	692	8.8	0.0	11296	7.6	95.3	3.0				
7/11/2012	10:18:12	27.1	692	8.8	0.0	11284	7.5	93.9	4.0				
7/11/2012	10:18:19	27.1	692	8.8	0.0	10589	7.4	93.5	5.0				
7/11/2012	10:18:27	27.1	692	8.8	0.0	9606	7.4	93.0	6.0				
7/11/2012	10:18:33	27.1	692	8.8	0.0	9106	7.4	92.9	7.0				
7/11/2012	10:18:40	27.1	692	8.8	0.0	8755	7.3	92.3	8.0				
7/11/2012	10:18:46	27.1	692	8.8	0.0	8031	7.3	91.6	10.0				
7/11/2012	10:18:52	27.0	692	8.8	0.0	6818	7.2	90.1	11.0				
7/11/2012	10:19:00	26.8	692	8.8	0.0	5559	7.0	87.8	12.0				
7/11/2012	10:19:06	26.7	693	8.8	0.0	4691	6.8	85.1	13.0				
7/11/2012	10:19:34	25.4	680	8.3	0.0	3754	4.6	56.4	14.0				
7/11/2012	10:19:43	24.3	691	8.2	0.0	2995	2.2	26.1	15.0				
7/11/2012	10:19:53	23.9	693	8.2	0.0	2524	1.4	16.2	16.0				
7/11/2012	10:20:00	23.8	691	8.1	0.0	2276	1.1	12.9	17.0				
7/11/2012	10:20:24	23.3	694	8.1	1.9	2972	0.1	1.4	18.0				
7/11/2012	10:48:37	27.7	701	8.7	5.2	25293	7.3	93.5	0.3	MI 3	0.80		
7/11/2012	10:48:52	27.3	701	8.7	5.9	24063	7.1	89.5	1.0				
7/11/2012	10:49:05	27.1	701	8.6	5.6	21522	6.8	85.8	2.0				
7/11/2012	10:49:12	27.0	701	8.6	5.4	19027	6.6	83.2	3.0				
7/11/2012	10:49:25	26.9	701	8.6	5.5	15377	6.3	79.1	4.0				
7/11/2012	10:49:33	26.8	701	8.6	5.1	14457	6.2	77.3	5.0				
7/11/2012	10:49:41	26.7	700	8.6	5.5	13285	6.1	76.2	6.0				
7/11/2012	10:49:54	26.4	697	8.5	6.0	9272	5.2	63.2	7.0				
7/11/2012	10:50:02	26.3	697	8.5	6.1	6433	5.0	61.5	8.0				
7/11/2012	10:50:09	25.9	696	8.3	15.7	5300	3.8	47.0	9.0				
7/11/2012	10:50:15	25.5	697	8.2		7904	2.3	27.8	10.0				
7/11/2012	11:13:44	27.3	733	8.5	60.6	59511	5.4	67.9	0.3	MI 5	0.20		
7/11/2012	11:13:52	26.9	764	8.4	71.7	62100	5.4	67.6	1.0				
7/11/2012	11:13:59	26.7	768	8.4	79.9	67372	5.4	67.8	2.0				
7/11/2012	13:20:02	28.9	829	8.5	93.6	59626	9.0	116.9	0.3	MI 24			





Date MMDDYY	Time HHMMSS	Temp øC	Conductivity uS/cm	pH Units	Turbidity NTU	PCY cell/mL	D.O. mg/l	LDO %Sat	Depth (M) meters	Site #	Secchi Depth (m)	Lake level	outflow
8/8/2012	9:17:27	27.9	692.7	8.7	0.4	13302	0.0	0.0	0.3	MI 1	1.35	1141.45	400
8/8/2012	9:17:40	27.6	692.7	8.7	0.5	12151	0.0	0.0	1.0				
8/8/2012	9:17:52	27.5	693.4	8.6	3.0	11513	0.0	0.0	2.0				

8/8/2012	9:17:59	27.5	693.7	8.6	2.6	11037	0.0	0.0	3.0		
8/8/2012	9:18:13	27.5	694.6	8.6	3.2	10641	0.0	0.0	4.0		
8/8/2012	9:18:22	27.4	694.5	8.6	2.9	10474	0.0	0.0	5.0		
8/8/2012	9:18:30	27.4	695.3	8.6	2.7	10278	0.0	0.0	6.0		
8/8/2012	9:18:38	27.3	696.7	8.6	2.4	10040	0.0	0.0	7.0		
8/8/2012	9:18:54	27.3	697.5	8.5	2.5	12027	0.0	0.0	8.0		
8/8/2012	9:19:02	27.2	699.5	8.5	2.4	11997	0.0	0.0	9.0		
8/8/2012	9:19:09	27.1	699.8	8.4	2.4	12012	0.0	0.0	10.0		
8/8/2012	9:19:18	27.1	699.9	8.4	2.7	11705	0.0	0.0	11.0		
8/8/2012	9:19:26	27.0	700.5	8.4	2.7	11934	0.0	0.0	12.0		
8/8/2012	9:19:42	27.0	700.2	8.4	3.8	17783	0.0	0.0	13.0		
8/8/2012	9:19:49	26.9	700.9	8.4	4.5	17335	0.0	0.0	14.0		
8/8/2012	9:19:58	26.9	702.1	8.3	5.1	16761	2.5	31.5	15.0		
8/8/2012	9:20:09	25.5	704.5	8.1	6.6	18730	1.0	12.5	16.0		
8/8/2012	9:51:42	27.9	694.6	8.8	9.6		0.0	0.0	0.3	MI 3	0.72
8/8/2012	9:51:50	27.7	698.1	8.7	14.3	28071	0.0	0.0	1.0		
8/8/2012	9:51:57	27.7	700.1	8.7	25.1	25801	0.0	0.0	2.0		
8/8/2012	9:52:10	27.6	700.8	8.7	9.5	20274	0.0	0.0	3.0		
8/8/2012	9:52:22	27.6	702.3	8.6	8.2	19435	0.0	0.0	4.0		
8/8/2012	9:52:30	27.6	707.2	8.6	8.5	19802	0.0	0.0	5.0		
8/8/2012	9:52:37	27.3	712.7	8.5	19.2	22647	0.0	0.0	6.0		
8/8/2012	9:52:44	27.1	719.6	8.4	21.1	28371	0.0	0.0	7.0		
8/8/2012	9:53:00	27.1	722.8	8.3	23.4	38555	0.0	0.0	8.0		
8/8/2012	9:53:07	27.0	727	8.2	24.0	40257	0.0	0.0	9.0		
8/8/2012	10:16:37	28.7	738.4	8.6	66.3	78497	0.0	0.0	0.3	MI 5	0.25
8/8/2012	10:16:46	26.5	820.6	8.0	294.3	137916	0.0	0.0	1.0		
8/8/2012	10:17:31	26.0	836.3	7.8	268.7		0.0	0.0	2.0		
8/8/2012	11:57:18	29.1	744.1	8.6	56.6	78490	9.3	121.3	0.3	MI 24	
8/8/2012	12:51:48	28.3	699.3	8.6	3.5	12455	8.3	106.2	0.3	MI 1A	

* EQUIPMENT MALFUNCTION DISSOLVED OXYGEN SENSOR*

Date	Time	Temp	Conductivity	pH	Turbidity	PCY	D.O.	LDO	Depth (M)	Site #	Secchi Depth (m)	Lake level	outflow
MMDDYY	HHMMSS	øC	uS/cm	Units	NTU	cell/mL	mg/l	%Sat	meters			1139.80	40
9/12/2012	10:58:50	23.8	722.6	8.7	23.8	7804	6.0	71.5	0.3	MI 1	1.80		
9/12/2012	10:58:57	23.8	722.2	8.7	23.8	7542	6.0	71.3	1.0				
9/12/2012	10:59:05	23.7	722	8.7	24.0	6898	6.0	70.9	2.0				
9/12/2012	10:59:10	23.7	722.5	8.7	24.0	6501	5.9	70.4	3.0				
9/12/2012	10:59:17	23.7	722.3	8.7	24.0	6875	5.9	69.5	4.0				
9/12/2012	10:59:23	23.7	722.6	8.7	23.9	7824	5.8	69.2	5.0				
9/12/2012	10:59:29	23.7	722.2	8.7	23.9	7743	5.8	69.2	6.0				
9/12/2012	10:59:33	23.7	721.8	8.7	23.9	7335	5.8	69.3	7.0				
9/12/2012	10:59:46	23.7	721.7	8.7	23.9	6059	5.9	69.6	8.0				
9/12/2012	10:59:55	23.7	722.6	8.7	24.0	5967	5.9	69.6	9.0				
9/12/2012	11:00:01	23.7	722.3	8.7	23.2	6053	5.9	69.4	10.0				
9/12/2012	11:00:07	23.7	722.3	8.7	23.4	5967	5.8	69.3	11.0				
9/12/2012	11:00:13	23.7	722.5	8.7	24.0	6231	5.8	69.3	12.0				
9/12/2012	11:00:18	23.7	722.1	8.7	23.9	5938	5.8	69.2	13.0				
9/12/2012	11:00:24	23.7	721.3	8.7	24.2	5409	5.8	69.1	14.0				
9/12/2012	11:00:32	23.7	721.6	8.7	25.9	5024	5.8	68.4	15.0				
9/12/2012	11:00:41	23.6	721.1	8.7	34.7	6197	5.7	66.9	16.0				
9/12/2012	11:00:47	23.5	723.6	8.7	212.0	7433	5.5	65.1	17.0				
9/12/2012	11:39:51	23.3	725.2	8.7	31.4	33973	7.4	86.8	0.3	MI 3	0.60		
9/12/2012	11:40:01	23.3	725.3	8.7	31.2	32548	7.3	86.5	1.0				
9/12/2012	11:40:11	23.3	725.4	8.7	31.0	30191	7.3	86.1	2.0				
9/12/2012	11:40:21	23.3	725.6	8.7	36.9	26995	7.3	85.5	3.0				
9/12/2012	11:40:30	23.3	725.7	8.7	31.7	27489	7.2	85.0	4.0				
9/12/2012	11:40:37	23.3	725.7	8.7	32.3	26184	7.2	84.6	5.0				
9/12/2012	11:40:44	23.2	726.4	8.7	32.3	24276	7.2	84.4	6.0				
9/12/2012	11:40:53	23.2	725.5	8.7	32.7	24707	7.1	83.9	7.0				
9/12/2012	11:40:59	23.1	725	8.6	1504.0	22448	7.1	83.7	8.0				
9/12/2012	12:03:36	20.1	837.1	8.5	170.3	110327	7.4	82.1	0.3	MI 5	0.20		
9/12/2012	12:03:48	19.9	841	8.4	350.2	106024	7.4	81.2	1.0				
9/12/2012	12:05:52	19.2	963.3	8.4	1069.0		6.8	73.8	2.0				
9/12/2012	9:50:32	20.7	1151	8.3	33.1	30248	8.9	100.2	0.3	MI 24			
9/12/2012	10:56:27	23.2	725.2	8.7	23.3	8209	8.6	101.1	0.3	MI 1A