

Appendix I

Ambient Monitoring Data:

Watershed Stations and Lake Stations

Draft

Lake Oologah TMDL Report

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Appendix D – Ambient Monitoring Data: Watershed Stations and Lake Stations

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Table 1 Water Quality Monitoring Stations for Lake Oologah

Organization	Site Number	Station Number	Latitude	Longitude	Represents
USACE	FR-1	1OOLKSS0066	37.508333	-95.833333	Verdigris River
USACE	VR-2	1OOLOKN0242	36.851111	-95.585833	Verdigris River
USACE	VR-3	1OOLKSS0065	37.418333	-95.671389	Verdigris River
OWRB		121510020010-001AT	36.851216	-95.585313	Verdigris River
EPA		SC105	37.32676	-95.68463	Verdigris River
EPA		SC215	37.00553	-95.59228	Verdigris River
EPA		SC561	37.52999	-95.67501	Verdigris River
EPA		SC562	37.43219	-95.72315	Verdigris River
EPA		SC563	37.17256	-95.65707	Verdigris River
USACE		1PSHKSS0047			Dam site of Big Hill Lake
USACE		1ELKKSS0008			Dam site of Elk City Lake
USACE		1FARKSS0004	37.666667	-96.383333	Dam site of Fall River Lake
USACE		1TORKSS0017	37.733333	-95.916667	Dam site of Toronto Lake
USACE	OOL_1	1OOLOKN0120	36.422333	-95.677917	Lake Oologah
USACE	OOL_2	1OOLOKN0240	36.493650	-95.610233	Lake Oologah
USACE	OOL_3	1OOLOKN0241	36.554933	-95.599417	Lake Oologah
USACE	OOL_4	1OOLOKN0126	36.599883	-95.575833	Lake Oologah
USACE	OOL_5	1OOLOKN0127	36.649633	-95.579333	Lake Oologah

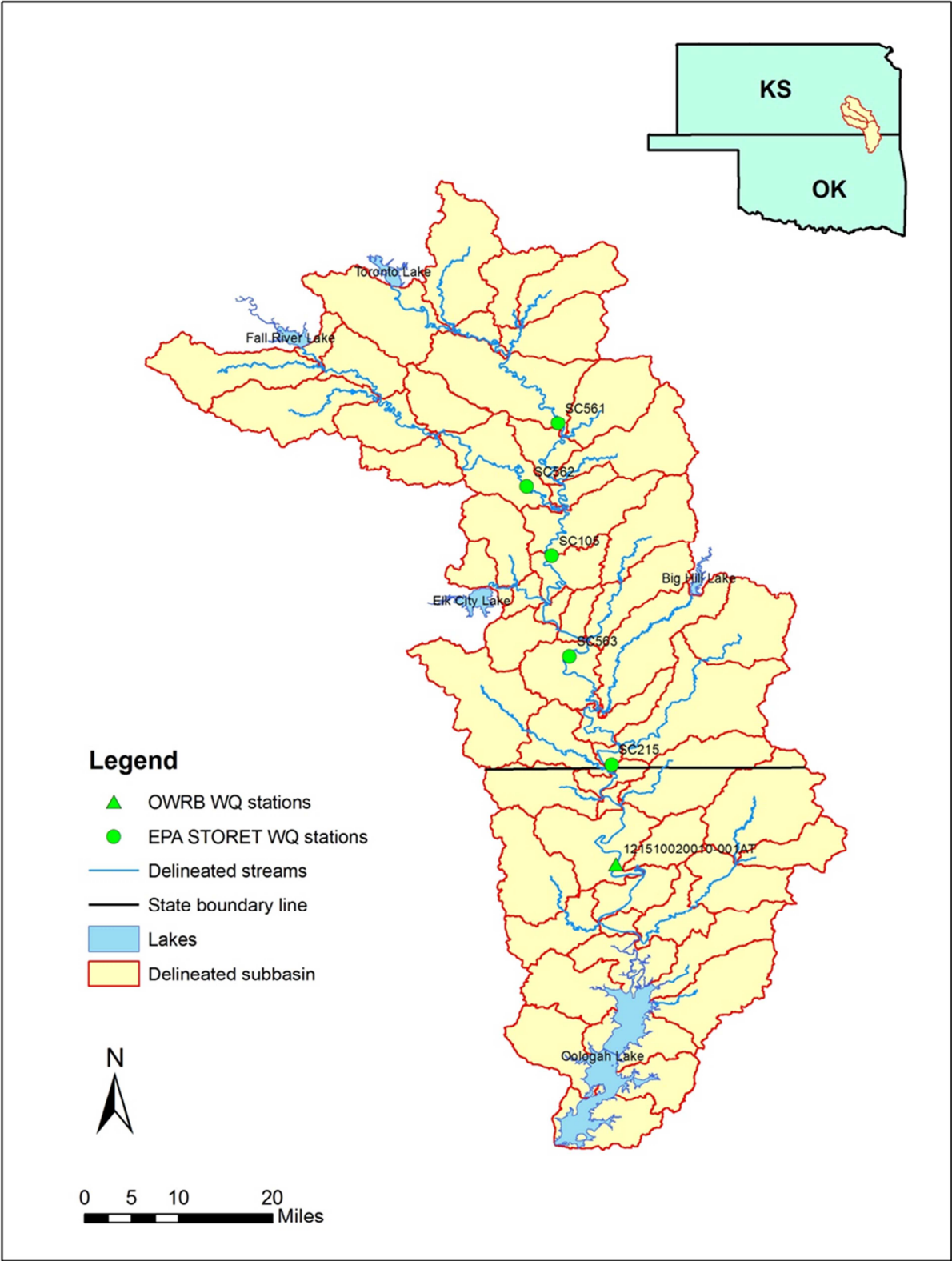


Figure 1 EPA and OWRB Monitoring Stations at Verdigris River Basin

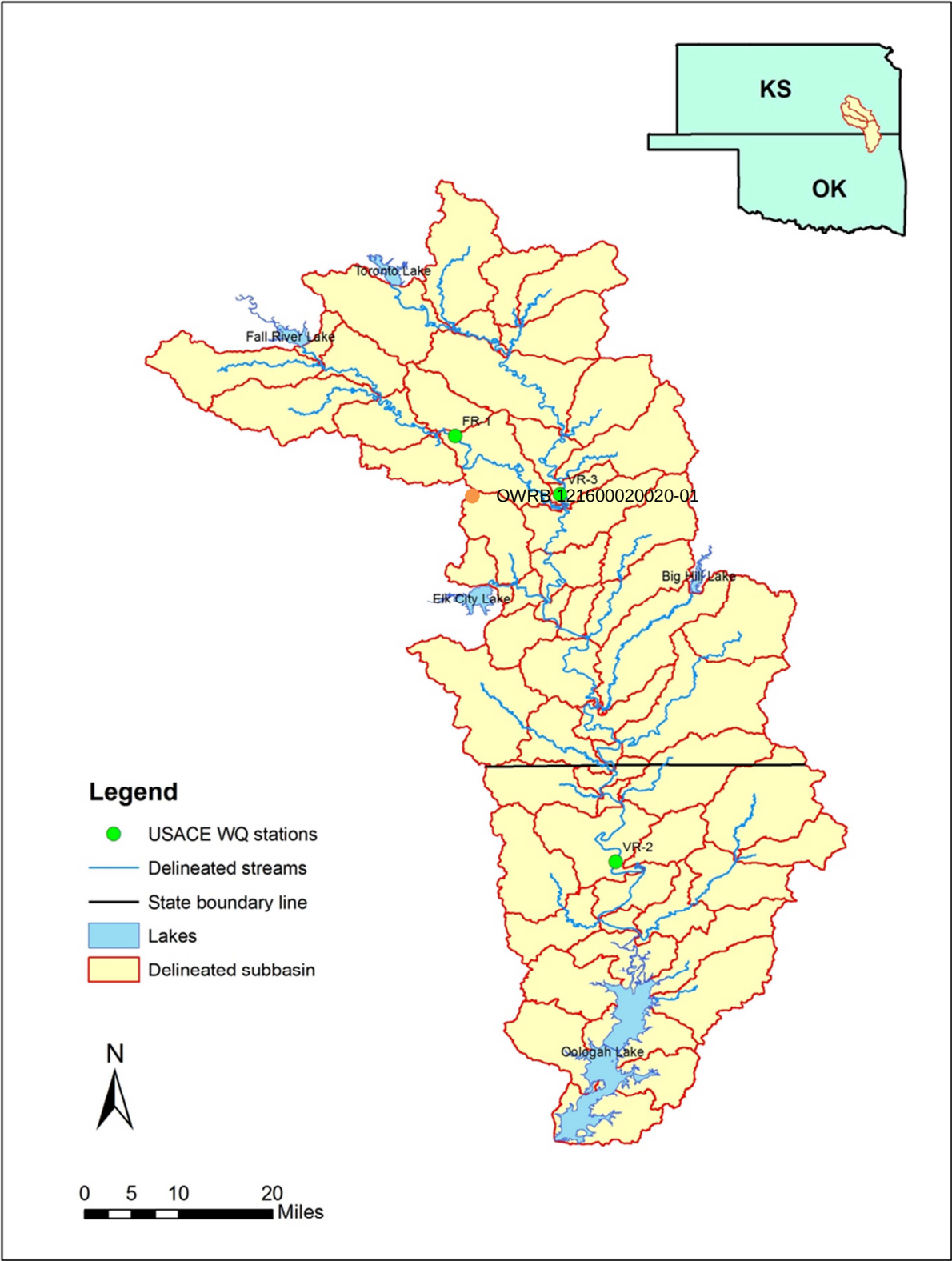


Figure 2 USACE Monitoring Stations at Verdigris River Basin

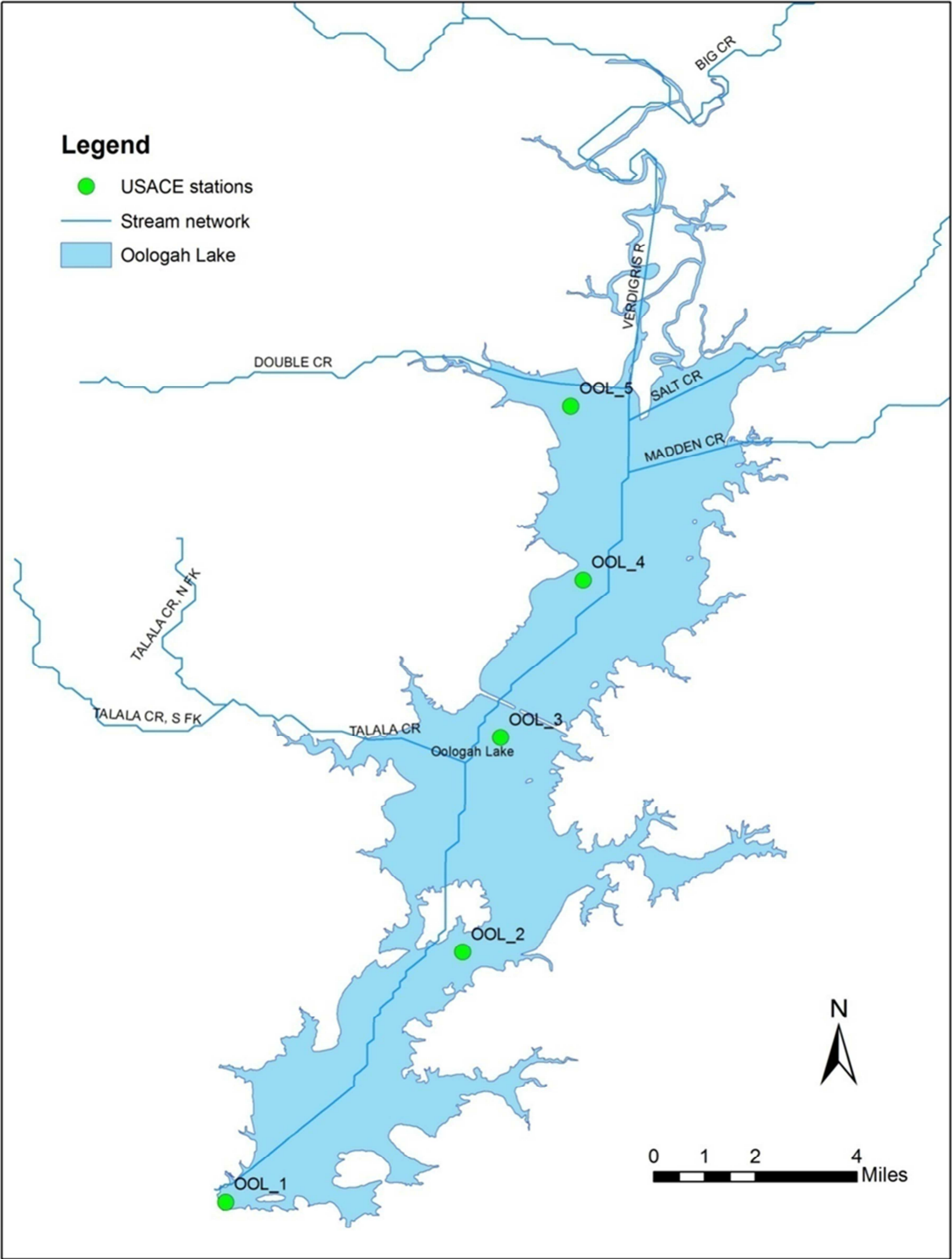


Figure 3 USACE Monitoring Stations at Lake Oologah

Table 2 USACE FR-1 Water Chemistry Results

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
FR-1	01/27/2004	0.5	46	0.036	0.77	0.34	0.049	0.033	4.8	4
FR-1	02/24/2004	0.5	50	<0.038	0.81	0.17	0.061	0.006	3.3	10.8
FR-1	03/05/2004	0.5	990	0.19	3.34	0.45	0.34	0.16	6.8	
FR-1	03/23/2004	0.5	79	0.079	0.64	0.21	0.16	0.046	3.6	6.2
FR-1	04/20/2004	0.5	26	<0.038	0.46	0.29	0.074	0.029	3.2	2.5
FR-1	05/18/2004	0.5	100	0.071	1.06	0.32	0.18	0.053	4.2	1.9
FR-1	06/22/2004	0.5	64	<0.038	0.65	0.38	0.13	0.038	4.3	10
FR-1	07/20/2004	0.5	81	0.046	0.71	<0.061	0.12	0.032	4.2	
FR-1	07/20/2004	0.5								17.5
FR-1	08/17/2004	0.5	16	<0.038	0.85	0.5	0.16	0.09	2.9	11.2
FR-1	09/21/2004	0.5	17	<0.038	0.44	<0.061	0.2	0.12	3.3	22.7
FR-1	11/22/2004	0.5	34	<0.038	0.42	0.24	0.07	0.028	3.8	5.9
FR-1	12/20/2004	0.5	9	<0.038	0.4	0.33	0.049	0.024	3.5	3.6
FR-1	01/18/2005	0.5	41	0.086	<0.24	0.22	0.083	0.03	3.9	3.5
FR-1	02/22/2005	0.5	25	<0.03	0.37	0.13	0.054	0.006	2.9	14.5
FR-1	03/22/2005	0.5	240	0.064	1.2	0.37	0.15	0.02	4.8	11.3
FR-1	04/21/2005	0.5	20	<0.03	0.59	0.3	0.049	0.006		13.4
FR-1	05/17/2005	0.5	150	0.042	0.89	0.25	0.14	0.021	3.8	14.5
FR-1	06/21/2005	0.5	85	0.075	0.62	0.16	0.15	0.056	4.7	0.9
FR-1	07/19/2005	0.5	59	<0.03	0.7	0.18	0.1	0.023	3.7	5.6
FR-1	08/22/2005	0.5	82	0.45	0.49	0.46	0.24	0.079	4.9	3.3

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
FR-1	09/19/2005	0.5	79	<0.05	0.35	0.22	0.2	0.041	2.9	3.5
FR-1	11/21/2005	0.5	3	<0.05	0.91	1.09	0.13	0.053	3.9	10.9
FR-1	12/21/2005	0.5	3.6	<0.05	0.41	1.71	0.17	0.093		18
FR-1	01/17/2006	0.5	2.4	<0.050	0.43	1.51	0.14	0.008	3.2	6.4
FR-1	02/21/2006	0.5	5.8	<0.050	0.35	0.45	0.041	0.006	3	6.6
FR-1	03/21/2006	0.5	6.9	0.22	0.88	0.22	0.18	0.11	3.9	16.4
FR-1	04/18/2006	0.5	7.6	<0.050	0.97	<0.060	0.19	0.091	5.2	23
FR-1	05/16/2006	0.5	48	<0.050	0.67	0.24	0.1	0.026	5.2	8.8
FR-1	06/20/2006	0.5	29	0.058	0.59	0.49	0.093	0.032	3.5	11.5
FR-1	07/18/2006	0.5	12	<0.050	0.62	0.13	0.093	0.01	3.4	21.1
FR-1	08/22/2006	0.5	14	0.08	0.71	0.18	0.13	0.12	4	10.2
FR-1	09/19/2006	0.5	19	0.95	1.23	<0.060	0.18	0.071	3.5	23.7
FR-1	10/17/2006	0.5	9.7	<0.050	0.63	0.51	0.12	0.063	4.3	5.5
FR-1	11/14/2006	0.5	11	<0.050	0.62	0.59	0.31	0.23	5.2	5.5
FR-1	12/19/2006	0.5	4.2	0.46	1.07	0.42	0.27	0.21	5.2	6.7
FR-1	02/20/2007	0.5	16	0.11	0.88	1.03	0.1	0.057	5.8	5.2
FR-1	03/21/2007	0.5	520	0.14	2.54	0.41	0.83	0.051	8.8	15.3
FR-1	04/17/2007	0.5	52	<0.10	0.83	0.48	0.14	0.053	5.9	2
FR-1	05/22/2007	0.5	54	<0.10	0.66	0.31	0.11	0.039	4.3	4.2
FR-1	06/19/2007	0.5	30	<0.10	<0.50	0.42	0.12	0.034	3.9	
FR-1	07/05/2007	0.5	300	<0.10	1.06	<0.20	0.41	0.069	3.7	0.4
FR-1	07/17/2007	0.5	220	<0.10	1.1	<0.20	0.23	0.064	3.8	1.1
FR-1	08/21/2007	0.5	16	<0.10	<0.50	1.37	0.073	0.035	3.3	7

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
FR-1	09/18/2007	0.5	20	<0.10	<0.50	0.56	0.096	0.039	3.5	15.7
FR-1	10/23/2007	0.5	100	<0.10	0.95	1	0.14	0.069	5	5.7
FR-1	11/20/2007	0.5	17	<0.10	1.22	0.84	0.16	0.095	4.4	15
FR-1	12/18/2007	0.5	3.7	<0.10	<0.50	1.1	0.084	0.05	3.7	6.3

Table 3 USACE VR-2 Water Chemistry Results

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
VR-2	01/20/2004 13:55	0.5	250	0.089	1.12	0.92	0.47	0.13	7	4.6
VR-2	01/27/2004 12:42	0.5	90	0.037	0.75	0.45	0.059	0.038	4.5	5.1
VR-2	02/17/2004 13:55	0.5	14	<0.038	0.62	0.44	0.053	0.033	4.8	3.3
VR-2	03/05/2004 09:15	0.5	1000	0.21	3.75	0.56	0.4	0.15	15	
VR-2	03/16/2004 14:00	0.5	140	0.14	0.66	0.31	0.24	0.093	4.7	1.7
VR-2	04/13/2004 13:45	0.5	31	<0.038	0.86	0.41	0.045	0.027	4.3	18.3
VR-2	05/11/2004 14:10	0.5	77	<0.038	0.6	0.39	0.16	0.047	4.5	5.9
VR-2	06/15/2004 13:10	0.5	420	0.063	1.58	0.71	1.1	0.13	6.4	3.9
VR-2	07/13/2004 13:30	0.5	210	<0.038	0.95	0.3	0.24	0.065	4.5	7.2
VR-2	08/10/2004 13:55	0.5	15	<0.038	0.39	<0.061	0.059	0.012	4.2	14.7
VR-2	09/14/2004 13:15	0.5	18	<0.038	0.28	<0.061	0.067	0.013	3.9	9.8
VR-2	10/13/2004 09:50	0.5	19	<0.038	0.48	0.21	0.073	0.013	4	17.1
VR-2	11/17/2004 13:30	0.5	76	0.11	0.71	0.31	0.14	0.048	4.5	3.7
VR-2	12/14/2004 09:20	0.5	23	<0.038	0.46	0.32	0.08	0.043	4.4	4

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
VR-2	01/11/2005 10:20	0.5	180	0.042	1.06	0.43	0.2	0.056	4.1	
VR-2	03/15/2005 13:30	0.5	15	<0.03	0.48	0.041	0.051	0.003	3.7	28.3
VR-2	04/12/2005 14:15	0.5	44	<0.03	0.91	0.2	0.093	0.031	4.1	16.3
VR-2	05/10/2005 13:20	0.5	17	<0.03	0.39	<0.04	0.056	0.006	3.7	13
VR-2	06/14/2005 13:40	0.5	530	<0.03	1.54	0.27	0.75	0.096	7.9	5.1
VR-2	07/12/2005 14:05	0.5	130	0.032	0.82	0.15	0.99	0.032	4.4	5.2
VR-2	08/16/2005 13:45	0.5	27	<0.05	0.54	<0.04	0.069	0.018	3.6	22.1
VR-2	09/12/2005 13:55	0.5	55	<0.05	0.62	0.23	0.17	0.067	2.9	1.3
VR-2	11/16/2005 14:30	0.5	8.8	<0.05	0.63	<0.04	0.074	0.005	5.4	32.4
VR-2	12/13/2005 12:45	0.5	16	<0.05	0.86	<0.04	0.096	<0.003	8	44.8
VR-2	01/10/2006 13:25	0.5	15	0.077	1.22	<0.060	0.098	0.007	7.3	22.8
VR-2	02/14/2006 13:30	0.5	22	<0.050	1.09	<0.060	0.098	<0.0050	5.5	47.1
VR-2	04/11/2006 11:20	0.5	15	<0.050	0.77	<0.060	0.089	0.005	5.5	25.4
VR-2	05/09/2006 13:35	0.5	770	0.054	3	0.42	0.99	0.09	7.7	3.1
VR-2	06/15/2006 13:00	0.5	20	<0.050	0.74	0.34	0.1	0.042	4.3	6.4
VR-2	07/11/2006 13:30	0.5	23	<0.050	1.01	0.43	0.1	0.05	4.1	8.4
VR-2	08/15/2006 13:15	0.5	12	<0.050	0.48	<0.060	0.056	<0.0050	4.5	6.2
VR-2	09/12/2006 12:55	0.5	18	<0.050	0.62	<0.060	0.081	0.019	5.2	3.3
VR-2	10/11/2006 09:00	0.5	9.4	<0.050	0.61	0.065	0.058	0.015	6	2.2
VR-2	11/07/2006 08:45	0.5	10	<0.050	1.46	0.74	0.1	0.043	5.9	18.3
VR-2	12/12/2006 13:15	0.5	15	<0.050	1.15	<0.060	0.17	0.063	7.2	18.9
VR-2	02/27/2007 08:50	0.5	32	0.13	0.86		0.14	0.06	5.4	12.2
VR-2	03/13/2007 13:20	0.5	21	<0.10	0.7	<0.20	0.064	0.008	5.4	18.4
VR-2	04/10/2007 13:30	0.5	140	<0.10	0.91	0.35	0.096	0.059	5	3.7

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
VR-2	05/16/2007 13:20	0.5	220	<0.10	0.96	0.36	0.27	0.052	5.4	1.6
VR-2	06/12/2007 13:50	0.5	270	<0.10	1.31	0.37	0.31	0.12	5.8	1.5
VR-2	07/10/2007 09:50	0.5	200	<0.10	0.89	<0.20	0.3	0.066	4	3.2
VR-2	08/14/2007 13:40	0.5	100	<0.10	0.7	0.21	0.088	0.034	4.2	3.7
VR-2	09/11/2007 13:35	0.5	23	<0.10	<0.50	0.95	0.093	0.028	4.1	16.4
VR-2	10/18/2007 12:40	0.5	80	<0.10	1.2	<0.20	0.22	0.056	5.9	13.9
VR-2	11/14/2007 07:24	0.5	22	<0.10	1	1.1	0.1	0.014	5.7	26.3

Table 4 USACE VR-3 Water Chemistry Results

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
VR-3	01/27/2004 08:40	0.5	85	0.042	0.89	0.72	0.071	0.049	6	5.3
VR-3	02/24/2004 09:10	0.5	70	<0.038	0.97	0.18	0.076	0.011	4.3	7.7
VR-3	03/05/2004 10:30	0.5	930	0.27	3.34	1.18	0.39	0.17	8.2	
VR-3	03/23/2004 09:15	0.5	99	<0.038	0.66	0.32	0.18	0.039	4.3	8.9
VR-3	04/20/2004 09:35	0.5	50	<0.038	0.65	0.18	0.12	0.025	4.5	4.3
VR-3	05/18/2004 09:05	0.5	130	<0.038	1.03	0.44	0.2	0.044	4.8	3.3
VR-3	06/22/2004 09:00	0.5	240	<0.038	0.88	0.27	0.35	0.076	5.4	4.9
VR-3	07/20/2004 09:10	0.5	110	<0.038	0.85	0.26	0.21	0.075	4.7	6.3
VR-3	08/17/2004 09:55	0.5	17	<0.038	0.48	0.21	0.12	0.026	3.3	No Data
VR-3	09/21/2004 08:25	0.5	31	<0.038	<0.24	<0.061	0.092	0.021	3.7	8.6
VR-3	11/22/2004 08:20	0.5	36	<0.038	0.66	0.2	0.1	0.038	4.7	2.9

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
VR-3	12/20/2004 08:35	0.5	11	<0.038	0.46	0.26	0.061	0.022	3.9	3.7
VR-3	01/18/2005 09:25	0.5	48	<0.038	0.68	0.28	0.11	0.04	4.6	2.3
VR-3	02/22/2005 08:30	0.5	41	<0.03	0.6	0.21	0.076	0.017	4.2	8.4
VR-3	03/22/2005 08:30	0.5	57	<0.03	0.75	0.081	0.095	0.009	4.1	5.6
VR-3	04/21/2005 08:35	0.5	28	<0.03	0.5	0.078	0.099	0.015		12.7
VR-3	05/17/2005 08:30	0.5	170	<0.03	0.99	0.24	0.26	0.023	4.4	19.6
VR-3	06/21/2005 09:10	0.5	130	0.077	1.09	0.18	0.2	0.059	4.9	4.5
VR-3	07/19/2005 11:40	0.5	35	<0.03	0.47	0.47	0.13	0.051	3.9	2.6
VR-3	08/22/2005 11:35	0.5	53	0.066	1.68	0.57	0.21	0.065	5.3	4.3
VR-3	09/19/2005 11:40	0.5	84	<0.05	0.62	0.25	0.18	0.048	3.8	4.4
VR-3	11/21/2005 11:20	0.5	4	<0.05	0.43	<0.04	0.08	0.017	5.1	2.3
VR-3	12/21/2005 10:50	0.5	5.1	0.11	0.43	0.13	0.15	0.023		12.9
VR-3	01/17/2006 11:15	0.5	11	<0.050	0.59	<0.060	0.062	<0.0050	5	18.5
VR-3	02/21/2006 11:40	0.5	5.5	<0.050	0.6	<0.060	0.053	<0.0050	4.6	9.7
VR-3	03/21/2006 11:05	0.5	5.4	<0.050	0.54	0.078	0.066	0.025	4.2	4.5
VR-3	04/18/2006 11:10	0.5	6	<0.050	1.04	<0.060	0.072	0.014	5.1	7.4
VR-3	05/16/2006 11:10	0.5	74	<0.050	0.88	0.22	0.14	0.039	7	9
VR-3	06/20/2006 11:25	0.5	48	0.081	0.9	0.22	0.067	0.034	4.8	2.5
VR-3	07/18/2006 11:55	0.5	32	<0.050	0.46	0.17	0.1	0.042	4.2	5.8
VR-3	08/22/2006 11:15	0.5	25	<0.050	0.63	0.15	0.04	0.029	4.8	9.5
VR-3	09/19/2006 11:10	0.5	16	<0.050	0.76	<0.060	0.14	0.017	4.7	8.8
VR-3	10/17/2006 11:15	0.5	9.2	<0.050	0.65	<0.060	0.098	0.021	5.5	10.9
VR-3	11/14/2006 12:00	0.5	9.2	<0.050	0.78	<0.060	0.13	0.025	7.2	5.3
VR-3	12/19/2006 12:10	0.5	15	<0.050	0.54	<0.060	0.04	0.015	5.8	5.4

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
VR-3	02/20/2007 11:00	0.5	37	0.13	1.49	1.23	0.11	0.06	6.8	5.1
VR-3	03/21/2007 11:10	0.5	380	0.41	3.33	2.49	0.87	0.13	11	6.1
VR-3	04/17/2007 11:00	0.5	66	<0.10	0.88	0.97	0.16	0.072	6	2.4
VR-3	05/22/2007 11:35	0.5	120	<0.10	0.95	0.24	0.18	0.04	5.4	0.5
VR-3	06/19/2007 11:20	0.5	110	<0.10	<0.50	0.25	0.22	0.036	4.3	
VR-3	07/05/2007 13:10	0.5	100	<0.10	0.64	<0.20	0.21	0.064	4.6	1.9
VR-3	07/17/2007 11:30	0.5	270	<0.10	2.37	0.36	0.46	0.11	5	2.4
VR-3	08/21/2007 11:15	0.5	18	<0.10	<0.50	0.28	0.078	0.032	4.3	3.8
VR-3	09/18/2007 11:45	0.5	20	<0.10	<0.50	0.49	0.075	0.027	3.9	4
VR-3	10/23/2007 11:55	0.5	190	<0.10	1.37	2.4	0.26	0.15	6.5	1.7
VR-3	11/20/2007 11:40	0.5	19	<0.10	0.7	0.35	0.14	0.04	6.5	2.9
VR-3	12/18/2007 11:30	0.5	5.2	<0.10	0.68	<0.20	0.041	0.007	5.6	12.9

Table 5 OWRB 12150020010-001AT Water Chemistry Results

Station	Sample Date/Time	Depth (m)	WT (C)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	DO (mg/L)	Chlorophyll-a (µg/L)
121510020010-001AT	01/26/2004		4	<0.05	0.69		0.089	0.049	11.63	
121510020010-001AT	02/23/2004		7.04	<0.05	0.59	0.41	0.084	0.027	8.35	
121510020010-001AT	04/05/2004		14.2	0.06	0.69	0.33	0.124	0.086	7.43	
121510020010-001AT	05/17/2004		17.87	0.12	1.17	0.36	0.24	0.095	8.25	
121510020010-001AT	06/22/2004		22.42	0.12	1.97	0.7	0.6	0.373	7	
121510020010-001AT	07/26/2004		27.53	<0.05	0.77	0.23	0.141	0.069	5.65	9.7

Station	Sample Date/Time	Depth (m)	WT (C)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	DO (mg/L)	Chlorophyll-a (µg/L)
121510020010-001AT	08/31/2004		25.19	0.06	0.58	0.13	0.066	0.013	6.48	
121510020010-001AT	10/04/2004		20.3	<0.05	0.5	0.05	0.06	0.014	10.08	11.1
121510020010-001AT	11/09/2004		12.2	0.1	0.85	0.05	0.177	0.124	10.33	2.9
121510020010-001AT	12/01/2004		6.75	0.06	0.62	0.59	0.121	0.078	13.76	1.6
121510020010-001AT	02/01/2005		2.82	<0.05	0.24	0.29	0.073	0.054	12.1	
121510020010-001AT	02/01/2005					0.31				3.54
121510020010-001AT	04/05/2005		15.41	<0.05	0.55	0.25	0.102	0.046	11.16	10.8
121510020010-001AT	05/09/2005		25.58	<0.05	0.05	0.05	0.059	0.008	6.07	
121510020010-001AT	06/15/2005		22.96	0.15	1.02	0.29	0.296	0.066	8.63	0.36
121510020010-001AT	08/03/2005		31	<0.05	1.01	0.06	0.051	0.019	5.19	5.1
121510020010-001AT	08/23/2005		24.67	<0.05	1.26	1.07	0.367	0.286	5.57	0.13
121510020010-001AT	09/26/2005		25.45	<0.05	0.27	0.18	0.108	0.066	7.48	3
121510020010-001AT	11/01/2005		16.96	<0.05	0.5	0.09	0.063	0.02	8.36	13.5
121510020010-001AT	12/13/2005		2.18	<0.05	0.91	0.05	0.088	0.013	16.8	
121510020010-001AT	01/30/2006		8.26	<0.05	1.11	0.05	0.219	0.012	10.95	64
121510020010-001AT	03/15/2006									23
121510020010-001AT	03/15/2006		14.11	<0.05	0.88	0.05	0.085	0.014	8.13	
121510020010-001AT	04/10/2006		18.4	<0.05	0.87	0.05	0.124	0.009	10.26	
121510020010-001AT	05/16/2006		18.34	<0.05	0.72	0.3	0.136	0.045	9.86	5.19
121510020010-001AT	06/19/2006		25.33	0.09	1.1	0.4	0.228	0.103	5.85	
121510020010-001AT	07/24/2006		28.09	<0.05	0.8	0.1	0.199	0.037	5.14	
121510020010-001AT	08/28/2006		27.78	<0.05	0.58	0.06	0.071	0.023	5.01	4.36
121510020010-001AT	09/25/2006		18.52	<0.05	0.57	0.05	0.05	0.013	5.67	4.97

Station	Sample Date/Time	Depth (m)	WT (C)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	DO (mg/L)	Chlorophyll-a (µg/L)
121510020010-001AT	11/13/2006		11.01	<0.05	0.77	0.33	0.048	0.011	11.5	
121510020010-001AT	12/13/2006									31
121510020010-001AT	01/29/2007		2.25	0.08	0.91	0.95	0.142	0.096	13.77	
121510020010-001AT	03/12/2007									21.8
121510020010-001AT	03/13/2007		14.13	<0.05	0.8	0.05	0.039	0.017	10.67	
121510020010-001AT	04/10/2007		11.75	0.15	0.76	0.31	0.133	0.097	10.43	7.67
121510020010-001AT	05/07/2007		19.98	0.14	3.15	0.34	0.655	0.262	7.21	173
121510020010-001AT	06/18/2007		25.51	<0.05	0.73	0.31	0.155	0.039	7.42	7.64
121510020010-001AT	07/05/2007		25.78		0.59	0.05	0.153		4.36	
121510020010-001AT	07/17/2007		25.22		1.1	0.26	0.235		8.32	2.25
121510020010-001AT	08/14/2007		29.51		0.66	0.17	0.125		6.82	5.52
121510020010-001AT	10/01/2007				0.63	0.05	0.068			
121510020010-001AT	10/02/2007									20.795
121510020010-001AT	11/05/2007		15.18		0.88	1.4	0.095		11.3	15
121510020010-001AT	12/19/2007				0.99	1.05	0.22			4.2

Table 6 EPA SC105 Water Chemistry Results

Station	Sample Date/Time	DO (mg/L)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	WT (C)
SC105	4/6/2004 9:22	9.8	79.0	<0.015	0.680	0.280	0.130	ND	5.8000	14.0
SC105	4/6/2004 9:27	9.5	83.0	<0.015	0.820	0.270	0.140	ND	6.1000	14.0

Station	Sample Date/Time	DO (mg/L)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	WT (C)
SC105	6/8/2004 10:02	5.8	71.0	<0.015	0.420	0.250	0.140	ND	5.1000	24.0
SC105	8/3/2004 9:42	6.2	25.0	0.4600	0.400	0.240	0.078	ND	5.5000	27.0
SC105	10/5/2004 9:07	8.4	20.0	<0.015	0.390	ND	0.063	ND	3.1000	16.0
SC105	12/7/2004 8:06	11.0	97.0	<0.015	0.850	0.140	0.190	ND	7.6000	7.0
SC105	3/8/2005 9:07	11.0	17.0	<0.015	0.150	ND	0.027	ND	4.7000	8.0
SC105	5/3/2005 9:02	10.0	21.0	<0.015	0.120	ND	0.035	ND	6.8000	13.0
SC105	7/12/2005 9:21	6.9	130.0	<0.015	0.660	ND	0.120	ND	6.7000	26.0
SC105	9/13/2005 9:17	7.5	16.0	<0.015	0.560	ND	0.091	ND	2.8000	24.0
SC105	11/8/2005 8:29	7.6	11.0	<0.015	0.140	0.170	0.044	ND	5.8000	16.0
SC105	1/31/2006 7:25	11.0	12.0	<0.015	0.580	ND	0.032	ND	4.3000	5.0
SC105	4/4/2006 9:10	8.5	11.0	<0.015	0.730	ND	0.058	ND	5.0000	14.0
SC105	6/6/2006 8:54	6.4	18.0	<0.015	0.490	0.120	0.067	ND	5.0000	25.0
SC105	8/8/2006 9:09	6.2	11.0	<0.015	0.570	ND	0.048	ND	4.3000	28.0
SC105	10/3/2006 8:38	7.1	10.0	<0.015	0.200	ND	0.032	ND	4.6000	22.0
SC105	11/28/2006 7:29	8.1	16.0	<0.015	0.350	ND	0.050	ND	7.5000	14.0
SC105	1/9/2007 7:44	11.0	12.0	<0.015	0.780	ND	0.078	ND	6.3000	5.0
SC105	3/6/2007 7:51	12.0	25.0	<0.015	0.990	0.130	0.260	ND	6.2000	8.0
SC105	3/6/2007 7:56	12.0	23.0	<0.015	0.760	0.130	0.071	ND	6.6000	8.0
SC105	5/8/2007 9:26	7.8	310.0	<0.015	1.600	0.380	0.530	ND	8.1000	20.0
SC105	7/10/2007 8:20	7.8	35.0	<0.015	0.800	0.110	0.190	ND	4.4000	24.0
SC105	9/11/2007 8:50	6.2	15.0	<0.015	0.460	0.460	0.073	ND	4.2000	22.0
SC105	10/30/2007 8:50	9.2	30.0	<0.015	0.620	1.200	0.140	ND	6.3000	13.0

Table 7 EPA SC215 Water Chemistry Results

Station	Sample Date/Time	DO (mg/L)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	WT (C)
SC215	4/5/2004 17:12	9.8	66.0	<0.015	0.600	0.350	0.130	ND	5.3	16.0
SC215	6/7/2004 17:43	8.2	49.0	<0.015	0.430	0.280	0.140	ND	5.4	25.0
SC215	8/2/2004 17:38	7.3	30.0	<0.015	0.500	0.270	0.097	ND	6.1	29.0
SC215	10/4/2004 17:33	8.9	22.0	<0.015	0.720	ND	0.120	ND	4.2	22.0
SC215	12/6/2004 15:53	11.0	51.0	<0.015	0.630	0.150	0.120	ND	13.0	9.0
SC215	1/3/2005 15:43	12.0	18.0	<0.015	0.310	0.110	0.070	ND	4.3	8.0
SC215	3/7/2005 16:24	11.0	22.0	<0.015	0.200	ND	0.039	ND	4.8	12.0
SC215	5/2/2005 15:55	5.8	27.0	<0.015	0.290	ND	0.044	ND	7.5	18.0
SC215	7/11/2005 16:04	6.9	140.0	<0.015	0.710	0.120	0.160	ND	10.0	28.0
SC215	9/12/2005 16:24	7.7	43.0	<0.015	0.480	ND	0.110	ND	3.7	26.0
SC215	11/7/2005 14:27	8.9	15.0	<0.015	0.360	0.470	0.110	ND	5.8	18.0
SC215	1/30/2006 15:15	12.0	14.0	<0.015	0.450	0.410	0.078	ND	4.7	10.0
SC215	4/3/2006 17:16	11.0	21.0	<0.015	1.100	0.180	0.120	ND	5.5	19.0
SC215	6/5/2006 17:43	8.2	26.0	<0.015	0.610	ND	0.074	ND	5.4	27.0
SC215	8/7/2006 16:22	9.7	18.0	<0.015	1.100	0.180	0.200	ND	6.2	31.0
SC215	10/2/2006 16:04	12.0	16.0	<0.015	1.000	0.440	0.230	ND	7.1	26.0
SC215	11/27/2006 15:23	14.0	19.0	<0.015	1.500	ND	0.380	ND	11.0	16.0
SC215	1/8/2007 15:31	10.0	21.0	<0.015	0.790	0.300	0.120	ND	6.8	10.0
SC215	3/5/2007 14:55	13.0	26.0	<0.015	0.920	0.350	0.079	ND	6.2	12.0
SC215	5/7/2007 18:29	7.2	620.0	<0.015	1.900	0.310	0.730	ND	8.0	21.0
SC215	7/9/2007 16:53	6.8	13.0	<0.015	0.800	ND	0.220	ND	4.0	27.0

Station	Sample Date/Time	DO (mg/L)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	WT (C)
SC215	7/9/2007 16:58	7.0	37.0	<0.015	0.790	0.100	0.210	ND	4.2	27.0
SC215	9/10/2007 16:23	8.2	28.0	<0.015	0.730	0.530	0.092	ND	5.5	26.0
SC215	10/29/2007 17:11	9.2	35.0	<0.015	0.830	1.400	0.140	ND	5.8	16.0

Table 8 EPA SC561 Water Chemistry Results

Station	Sample Date/Time	DO (mg/L)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	WT (C)
SC561	4/6/2004 10:42	9.6	67.0	<0.015	0.640	0.240	0.130	ND	6.6	14.0
SC561	6/8/2004 11:02	7.6	77.0	<0.015	0.470	0.180	0.120	ND	5.6	24.0
SC561	8/3/2004 10:52	6.1	25.0	<0.015	0.520	0.100	0.075	ND	5.5	27.0
SC561	10/5/2004 11:03	7.0	26.0	<0.015	0.360	ND	0.053	ND	4.1	16.0
SC561	12/7/2004 9:36	11.0	50.0	<0.015	0.660	0.100	0.150	0.280	7.8	7.0
SC561	3/8/2005 10:17	11.0	23.0	<0.015	0.340	ND	0.032	ND	5.0	9.0
SC561	5/3/2005 9:46	9.8	21.0	<0.015	0.055	ND	0.024	ND	7.0	13.0
SC561	7/12/2005 10:03	6.4	79.0	<0.015	0.370	ND	0.083	ND	8.8	27.0
SC561	9/13/2005 9:54	6.7	21.0	<0.015	0.940	0.180	0.064	ND	4.1	25.0
SC561	11/8/2005 9:13	8.2	10.0	<0.015	0.055	ND	0.022	ND	5.9	17.0
SC561	1/31/2006 8:12	10.0	<5	<0.015	0.120	ND	0.003	ND	4.7	5.0
SC561	4/4/2006 9:59	8.6	20.0	<0.015	0.650	ND	0.053	ND	5.3	15.0
SC561	6/6/2006 9:40	6.5	25.0	<0.015	0.630	ND	0.074	ND	5.9	24.0

Station	Sample Date/Time	DO (mg/L)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	WT (C)
SC561	8/8/2006 9:59	6.4	<5	<0.015	0.690	ND	0.044	ND	5.1	28.0
SC561	10/3/2006 9:18	6.6	10.0	<0.015	0.420	ND	0.038	ND	7.5	21.0
SC561	11/28/2006 8:15	7.3	11.0	<0.015	0.430	ND	0.086	ND	7.9	14.0
SC561	1/9/2007 8:29	14.0	25.0	<0.015	0.100	0.460	0.047	ND	6.4	6.0
SC561	3/6/2007 8:44	11.0	32.0	<0.015	0.830	ND	0.075	ND	6.5	9.0
SC561	5/8/2007 10:29	7.3	170.0	<0.015	1.300	0.460	0.360	ND	8.9	20.0
SC561	7/10/2007 9:24	7.7	63.0	<0.015	0.750	0.110	0.160	ND	4.6	23.0
SC561	9/11/2007 9:46	6.4	22.0	<0.015	0.540	0.210	0.110	ND	4.6	22.0
SC561	10/30/2007 10:01	7.4	32.0	<0.015	1.100	1.300	0.290	ND	7.7	13.0

Table 9 EPA 562 Water Chemistry Results

Station	Sample Date/Time	DO (mg/L)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
SC562	4/6/2004 9:56	10.0	69.0	<0.015	0.440	0.250	0.100	ND	4.7	8.4
SC562	6/8/2004 10:26	8.0	24.0	<0.015	0.340	0.390	0.065	ND	3.5	12.0
SC562	8/3/2004 10:12	6.0	15.0	<0.015	0.470	ND	0.049	ND	4.1	9.2
SC562	10/5/2004 10:13	8.4	23.0	<0.015	0.540	ND	0.063	ND	3.2	
SC562	12/7/2004 8:44	11.0	52.0	<0.015	0.640	ND	0.120	ND	7.4	
SC562	3/8/2005 9:27	11.0	16.0	<0.015	0.055	ND	0.022	ND	4.8	
SC562	5/3/2005 9:24	8.7	16.0	<0.015	0.055	ND	0.003	ND	5.9	

Station	Sample Date/Time	DO (mg/L)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
SC562	7/12/2005 9:40	6.9	120.0	<0.015	0.580	ND	0.097	ND	8.4	
SC562	9/13/2005 9:34	8.1	60.0	<0.015	0.440	0.160	0.100	ND	3.4	
SC562	11/8/2005 8:47	8.3	<5	<0.015	0.140	ND	0.003	ND	4.7	
SC562	1/31/2006 7:47	10.0	11.0	<0.015	0.480	ND	0.003	ND	4.6	
SC562	4/4/2006 9:31	8.5	10.0	<0.015	0.880	ND	0.036	ND	4.8	
SC562	6/6/2006 9:13	6.8	24.0	<0.015	0.280	0.100	0.062	ND	4.7	
SC562	8/8/2006 9:36	6.0	19.0	<0.015	0.640	ND	0.060	ND	3.8	
SC562	10/3/2006 8:58	6.2	10.0	<0.015	0.210	ND	0.033	ND	4.6	
SC562	11/28/2006 7:53	7.7	<5	<0.015	0.380	ND	0.026	ND	5.5	
SC562	1/9/2007 8:06	12.0	22.0	<0.015	0.780	ND	0.037	ND	6.4	
SC562	3/6/2007 8:21	11.0	<5	<0.015	0.690	0.180	0.037	ND	5.3	
SC562	5/8/2007 9:49	7.8	280.0	<0.015	1.100	0.190	0.340	ND	8.5	
SC562	7/10/2007 8:56	8.1	110.0	<0.015	0.700	0.100	0.170	ND	3.7	
SC562	9/11/2007 9:15	8.4	19.0	<0.015	0.680	0.300	0.070	ND	4.2	
SC562	10/30/2007 9:18	9.8	33.0	<0.015	0.510	0.620	0.110	ND	5.1	

Table 10 EPA 563 Water Chemistry Results

Station	Sample Date/Time	DO (mg/L)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	WT (C)
SC563	4/5/2004 17:49	9.8	64.0	<0.015	0.660	0.350	0.110	ND	6.4	16.0

Station	Sample Date/Time	DO (mg/L)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	WT (C)
SC563	6/7/2004	7.9	71.0	<0.015	0.370	0.270	0.140	ND	5.4	25.0
SC563	8/2/2004	6.8	31.0	<0.015	0.770	0.220	0.099	ND	5.5	28.0
SC563	10/4/2004	8.7	21.0	<0.015	0.360	ND	0.070	ND	3.6	20.0
SC563	12/6/2004	11.0	61.0	<0.015	0.540	0.170	0.120	ND	12.0	9.0
SC563	1/3/2005	12.0	16.0	<0.015	0.300	ND	0.070	ND	4.5	8.0
SC563	3/7/2005	11.0	22.0	<0.015	0.240	ND	0.039	ND	5.4	12.0
SC563	5/2/2005	11.0	19.0	<0.015	0.055	0.120	0.034	ND	7.1	17.0
SC563	7/11/2005	6.7	17.0	<0.015	0.620	ND	0.130	ND	8.6	28.0
SC563	9/12/2005	8.1	37.0	<0.015	0.430	ND	0.092	ND	3.4	26.0
SC563	11/7/2005	8.8	12.0	<0.015	0.340	0.450	0.089	ND	6.0	17.0
SC563	1/30/2006	11.0	12.0	<0.015	0.340	0.190	0.036	ND	4.3	9.0
SC563	4/3/2006	11.0	14.0	<0.015	1.400	ND	0.081	ND	5.7	17.0
SC563	6/5/2006	7.9	25.0	<0.015	0.570	0.110	0.085	ND	5.3	27.0
SC563	8/7/2006	7.0	13.0	<0.015	1.000	ND	0.092	ND	4.5	32.0
SC563	10/2/2006	7.9	16.0	<0.015	0.520	ND	0.093	ND	5.3	25.0
SC563	11/27/2006	9.3	11.0	<0.015	0.510	ND	0.048	ND	6.6	15.0
SC563	1/8/2007	12.0	14.0	<0.015	0.640	0.100	0.057	ND	5.9	9.0
SC563	3/5/2007	11.0	19.0	<0.015	0.980	0.270	0.070	ND	6.2	12.0
SC563	5/7/2007	7.8	580.0	<0.015	2.200	0.290	0.720	ND	7.5	21.0
SC563	7/9/2007	6.9	80.0	<0.015	0.770	0.100	0.170	ND	4.0	26.0
SC563	9/10/2007	10.0	25.0	<0.015	0.620	0.140	0.088	ND	4.5	26.0
SC563	10/29/2007	9.0	31.0	<0.015	0.780	1.200	0.140	ND	5.8	15.0

Table 11 USACE 1PSHKSS0047 (Dam Site of Big Hill Lake) Water Chemistry Results

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
1PSHKSS0047	12/2/2003 8:10	0.5	4	0.04	0.28	0.27	0.02	0.005	3.9	2.4
1PSHKSS0047	2/24/2004 8:10	0.5	5	0.038	0.77	0.36	0.012	0.0048	3.9	2.7
1PSHKSS0047	3/23/2004 8:00	0.5	4.9	0.038	0.5	0.4	0.028	0.008	4.3	4
1PSHKSS0047	4/20/2004 8:15	0.5	4.5	0.038	0.56	0.44	0.025	0.006	4.5	4.9
1PSHKSS0047	5/18/2004 8:00	0.5	4	0.038	0.61	0.49	0.022	0.005	4.4	3.5
1PSHKSS0047	6/22/2004 8:10	0.5	2	0.038	0.57	0.11	0.028	0.0075	4.5	15.3
1PSHKSS0047	7/20/2004 8:10	0.5	4.3	0.038	0.68	0.061	0.021	0.009	4.7	11.7
1PSHKSS0047	8/17/2004 8:40	0.5	3	0.038	0.44	0.061	0.023	0.004	4.6	5.2
1PSHKSS0047	9/21/2004 7:30	0.5	2.8	0.038	0.59	0.061	0.026	0.004	4.3	5.4
1PSHKSS0047	11/22/2004 7:30	0.5	4.8	0.038	0.32	0.15	0.054	0.004	4.3	12.1
1PSHKSS0047	12/20/2004 7:35	0.5	3	0.038	0.56	0.13	0.022	0.004	4.3	14.3
1PSHKSS0047	1/18/2005 8:00	0.5	4.8	0.038	0.9	0.11	0.03	0.004	4.5	14.6
1PSHKSS0047	2/22/2005 7:30	0.5	6	0.03	0.56	0.2	0.04	0.004	4.7	16.7
1PSHKSS0047	3/22/2005 7:30	0.5	4.5	0.03	0.69	0.075	0.025	0.003	4.9	23.2
1PSHKSS0047	4/21/2005 7:45	0.5	2	0.11	0.54	0.04	0.02	0.011		6.4
1PSHKSS0047	5/17/2005 7:35	0.5	4.4	0.03	0.53	0.052	0.019	0.003	4.8	10
1PSHKSS0047	6/21/2005 7:50	0.5	3.2	0.03	0.52	0.04	0.025	0.006	5	4.7
1PSHKSS0047	7/19/2005 12:25	0.5	4.8	0.03			0.025	0.003	4.8	12.3
1PSHKSS0047	8/22/2005 12:25	0.5	2	0.05	0.49	0.04	0.089	0.003	4.7	9.5
1PSHKSS0047	9/19/2005 12:20	0.5	2.6	0.05	0.29	0.04	0.015	0.003	4.5	5.3
1PSHKSS0047	11/21/2005 12:10	0.2	3.5	0.05	0.45	0.31	0.043	0.005	4.2	5.2
1PSHKSS0047	12/21/2005 11:50	0.5	4.4	0.058	0.42	0.29	0.062	0.003		12.5

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
1PSHKSS0047	1/17/2006 12:10	0.5	4	0.05	0.48	0.25	0.01	0.005	4.4	7.2
1PSHKSS0047	2/21/2006 12:35	0.5	2.2	0.05	0.39	0.22	0.013	0.005	4.1	2.9
1PSHKSS0047	3/21/2006 11:45	0.5	3	0.05	0.36	0.23	0.016	0.005	4	3.4
1PSHKSS0047	4/18/2006 12:00	0.5	2	0.05	0.5	0.16	0.024	0.005	4	1.8
1PSHKSS0047	4/20/2006 11:15	0.5	6	0.04	0.4	0.13	0.024	0.02		2
1PSHKSS0047	5/16/2006 11:55	0.5	3.2	0.05	0.56	0.12	0.029	0.005	4.4	8.1
1PSHKSS0047	5/17/2006 10:05	0.5	2	0.02	0.6	0.08	0.02	0.02	4.04	9.5
1PSHKSS0047	6/20/2006 12:15	0.5	4	0.05	0.65	0.06	0.005	0.005	4.7	8.7
1PSHKSS0047	6/21/2006 11:50	0.5	2	0.05	0.45	0.02	0.036	0.02	3.92	9.5
1PSHKSS0047	7/18/2006 12:40	0.5	4.7	0.05	0.43	0.06	0.024	0.005	5.2	12.5
1PSHKSS0047	7/19/2006 11:20	0.5	5	0.07	0.66	0.02	0.02	0.02	4.39	12
1PSHKSS0047	8/9/2006 10:10	0.5	2	0.02	0.68	0.02	0.02	0.02	4.04	17.8
1PSHKSS0047	8/22/2006 12:00	0.5	4	0.05	0.71	0.06	0.041	0.005	5.2	16.3
1PSHKSS0047	8/23/2006 10:15	0.5	2	0.05	0.6	0.58	0.026	0.031	4.5	16
1PSHKSS0047	9/19/2006 11:55	0.5	3.6	0.058	0.91	0.06	0.029	0.005	4.6	
1PSHKSS0047	9/20/2006 10:25	0.5	3	0.12	0.81	0.02	0.02	0.02	4.24	12.8
1PSHKSS0047	10/17/2006 12:05	0.5	4.4	0.19	0.7	0.099	0.019	0.005	4.5	5.1
1PSHKSS0047	11/14/2006 12:50	0.5	5.2	0.05	0.57	0.28	0.029	0.005	4.2	5
1PSHKSS0047	12/19/2006 13:00	0.5	3.4	0.05	0.71	0.26	0.014	0.005	4.3	5
1PSHKSS0047	2/20/2007 12:00	0.5	2.4	0.1	0.53	0.29	0.013	0.005	4	3.8
1PSHKSS0047	3/21/2007 11:45	0.5	12	0.1	0.5	0.25	0.03	0.005	4	7.2
1PSHKSS0047	4/17/2007 11:50	0.5	2.2	0.1	0.83	0.26	0.028	0.01	4.4	7.2
1PSHKSS0047	5/22/2007 12:40	0.5	7.2	0.1	0.66	0.2	0.039	0.005	6.1	0.5
1PSHKSS0047	6/19/2007 12:10	0.5	3	0.1	0.5	0.2	0.039	0.005	5.7	

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
1PSHKSS0047	7/17/2007 12:25	0.5	4	0.1	0.79	0.2	0.04	0.005	5.8	13.5
1PSHKSS0047	8/21/2007 11:55	0.5	2.4	0.1	0.56	0.2	0.027	0.011	5.2	9.7
1PSHKSS0047	9/18/2007 12:30	0.5	6	0.1	0.54	0.2	0.024	0.005	5	5.2
1PSHKSS0047	10/23/2007 12:45	0.5	4	0.24	0.69	0.2	0.01	0.008	4.7	5.1
1PSHKSS0047	11/20/2007 12:30	0.5	6.2	0.1	0.78	0.24	0.022	0.005	4.5	8.7
1PSHKSS0047	12/18/2007 12:20	0.5	2.4	0.1	0.51	0.27	0.017	0.005	4.4	2.1
1PSHKSS0047	1/29/2008 12:25	0.5	2.4	0.1	0.5	0.29	0.015	0.015	4.6	7.7

Table 12 USACE 1ELKKSS0008 (Dam Site of Elk City Lake) Water Chemistry Results

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
1ELKKSS0008	12/2/2003 13:25	0.5	35	0.04	0.3	0.4	0.13	0.056	4.5	3.5
1ELKKSS0008	2/24/2004 13:50	0.5	35	0.038	0.87	0.53	0.076	0.026	5.2	6.9
1ELKKSS0008	3/23/2004 13:40	0.5	190	0.04	1.13	0.45	0.29	0.053	4.3	9
1ELKKSS0008	4/20/2004 14:00	0.5	140	0.038	0.95	0.39	0.24	0.057	4.2	5.1
1ELKKSS0008	5/18/2004 13:30	0.5	30	0.038	0.71	0.48	0.15	0.063	4.6	1.1
1ELKKSS0008	6/22/2004 13:40	0.5	46	0.038	0.48	0.54	0.16	0.065	3.8	4.1
1ELKKSS0008	7/20/2004 13:50	0.5	19	0.053	0.53	0.2	0.092	0.058	4	5.7
1ELKKSS0008	8/17/2004 14:30	0.5	55	0.038	0.75	0.22	0.15	0.035	4	4.6
1ELKKSS0008	9/21/2004 12:20	0.5	36	0.038	0.4	0.061	0.081	0.012	4	25.3

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
1ELKKSS0008	11/22/2004 12:30	0.5	18	0.038	0.61	0.32	0.075	0.049	4.6	3.9
1ELKKSS0008	12/20/2004 13:00	0.5	53	0.038	0.66	0.34	0.13	0.047	4.7	5.7
1ELKKSS0008	2/22/2005 12:50	0.5	16	0.03	0.56	0.4	0.073	0.03	3.8	6.5
1ELKKSS0008	3/22/2005 12:50	0.5	20	0.03	0.51	0.23	0.057	0.018	3.7	6.5
1ELKKSS0008	4/21/2005 13:10	0.5	63	0.03	1.29	0.34	0.15	0.095		5.9
1ELKKSS0008	5/17/2005 12:45	0.5	84	0.03	0.67	0.34	0.16	0.038	4.1	7.8
1ELKKSS0008	6/21/2005 13:45	0.5	14	0.03		0.094	0.077	0.018	5.2	27.2
1ELKKSS0008	7/19/2005 7:30	0.5	14	0.03	0.52	0.04	0.055	0.012	4.9	13.1
1ELKKSS0008	8/22/2005 7:30	0.5	15	0.05	0.73	0.18	0.066	0.025	4.5	6.7
1ELKKSS0008	9/19/2005 7:20	0.5	21	0.05	0.64	0.21	0.071	0.021	3.9	7.3
1ELKKSS0008	11/21/2005 7:30	0.2	6	0.05	0.53	0.047	0.041	0.009	3.9	4.5
1ELKKSS0008	12/21/2005 7:35	0.5	6.2	0.05	0.45	0.062	0.028	0.004		5.2
1ELKKSS0008	1/17/2006 7:25	0.5	7.3	0.05	0.37	0.06	0.03	0.005	4.1	5.9
1ELKKSS0008	2/21/2006 7:40	0.5	21	0.05	0.73	0.06	0.053	0.005	4.4	11
1ELKKSS0008	3/21/2006 7:20	0.5	23	0.05	0.31	0.06	0.046	0.011	3.6	8.4
1ELKKSS0008	4/18/2006 7:10	0.5	16	0.05	0.62	0.06	0.053	0.006	3.5	8.8
1ELKKSS0008	5/16/2006 7:25	0.5	9.2	0.089	0.68	0.27	0.077	0.037	6.1	4.2
1ELKKSS0008	6/20/2006 7:20	0.5	21	0.05	0.56	0.092	0.044	0.029	5.1	13.5
1ELKKSS0008	7/18/2006 7:35	0.5	12	0.05	0.61	0.06	0.067	0.012	4.7	12.8
1ELKKSS0008	8/22/2006 7:30	0.5	39	0.05	0.91	0.18	0.088	0.078	5.3	9.4
1ELKKSS0008	9/19/2006 7:35	0.5	27	0.05	0.7	0.06	0.16	0.03	5.3	43.1
1ELKKSS0008	10/17/2006 7:20	0.5	27	0.061	0.41	0.17	0.046	0.037	5.1	6.4
1ELKKSS0008	11/14/2006 7:40	0.5	18	0.05		0.23	0.096	0.039	4.7	4.8
1ELKKSS0008	12/19/2006 7:35	0.5	33	0.071	0.63	0.24	0.081	0.029	5	4.5

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
1ELKKSS0008	2/20/2007 7:30	0.5	13	0.1	0.65	0.34	0.048	0.01	4.3	6.7
1ELKKSS0008	3/21/2007 7:20	0.5	25	0.1	0.63	0.2	0.084	0.012	4	9.1
1ELKKSS0008	4/17/2007 7:20	0.5	22	0.22	0.58	0.39	0.079	0.069	5.2	3.5
1ELKKSS0008	5/22/2007 7:25	0.5	23	0.1	0.88	0.2	0.13	0.029	6.3	13
1ELKKSS0008	6/19/2007 7:30	0.5	25	0.1	0.81	0.24	0.12	0.036	5.1	
1ELKKSS0008	7/17/2007 7:30	0.5	12	0.1	0.62	0.2	0.082	0.013	4.1	8.5
1ELKKSS0008	8/21/2007 7:30	0.5	39	0.1	0.7	0.2	0.11	0.028	4	9.9
1ELKKSS0008	9/18/2007 7:35	0.5	66	0.1	0.71	0.53	0.13	0.04	3.8	7.8
1ELKKSS0008	10/23/2007 7:40	0.5	38	0.1	0.64	0.68	0.071	0.052	3.6	3.6
1ELKKSS0008	11/20/2007 7:40	0.5	22	0.1	0.79	0.67	0.069	0.031	3.6	8.6
1ELKKSS0008	12/18/2007 7:20	0.5	11	0.1	0.5	0.62	0.041	0.013	4.5	9.2
1ELKKSS0008	1/29/2008 7:55	0.5	36	0.1	0.53	0.37	0.029	0.005	4.4	24.6

Table 13 USACE 1FARKSS0004 (Dam Site of Fall River Lake) Water Chemistry Results

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
1FARKSS0004	12/2/2003 11:10	0.5	20	0.042	0.37	0.34	0.075	0.034	3.1	2.9
1FARKSS0004	2/24/2004 11:10	0.5	26	0.038	0.57	0.15	0.05	0.006	3	12.5
1FARKSS0004	3/23/2004 11:35	0.5	46	0.078	0.72	0.19	0.13	0.044	3.7	5
1FARKSS0004	4/20/2004 11:50	0.5	21	0.11	0.58	0.2	0.072	0.038	3	1.1
1FARKSS0004	5/18/2004 11:30	0.5	20	0.076	0.78	0.24	0.078	0.04	3.8	1.8
1FARKSS0004	6/22/2004 11:15	0.5	16	0.038	0.75	0.24	0.061	0.01	3.2	19.9
1FARKSS0004	7/20/2004 12:00	0.5	8.4	0.049	0.57	0.061	0.045	0.023	4.5	9.4
1FARKSS0004	8/17/2004 12:10	0.5	12	0.039	0.42	0.13	0.058	0.016	3.5	3.2
1FARKSS0004	9/21/2004 10:15	0.5	23	0.038	0.31	0.077	0.08	0.017	3.3	9.7
1FARKSS0004	11/22/2004 10:25	0.5	16	0.038	0.36	0.21	0.062	0.028	3.7	5.9
1FARKSS0004	12/20/2004 10:55	0.5	10	0.038	0.42	0.18	0.045	0.019	3.3	6.7
1FARKSS0004	2/22/2005 10:50	0.5	13	0.03	0.42	0.081	0.041	0.005	2.8	13.1
1FARKSS0004	3/22/2005 10:30	0.5	16	0.03	0.38	0.04	0.036	0.003	2.2	4.5
1FARKSS0004	4/21/2005 10:30	0.5	27	0.034	1.13	0.27	0.073	0.018		17.9
1FARKSS0004	5/17/2005 10:40	0.5	23	0.032	0.51	0.13	0.051	0.008	3.5	16.2
1FARKSS0004	6/21/2005 11:45	0.5	5	0.03		0.14	0.069	0.031	4.2	7.6
1FARKSS0004	7/19/2005 9:10	0.5	12	0.03		0.04	0.055	0.008	4	20.4
1FARKSS0004	8/22/2005 9:10	0.5	17	0.22	0.41	0.14	0.075	0.027	3.6	5.8
1FARKSS0004	9/19/2005 9:20	0.5	12	0.05	0.25	0.21	0.086	0.037	2.8	4.3
1FARKSS0004	11/21/2005 9:15	0.2	16	0.05	0.46	0.51	0.072	0.022	2.7	4.6
1FARKSS0004	1/17/2006 9:15	0.5	30	0.053	0.48	0.47	0.065	0.005	2.7	10.5
1FARKSS0004	2/21/2006 9:25	0.5	12	0.05	0.52	0.32	0.037	0.005	2.9	12.9

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
1FARKSS0004	3/21/2006 9:00	0.5	27	0.05	0.35	0.24	0.058	0.007	2.7	19.2
1FARKSS0004	4/18/2006 8:55	0.5	20	0.055	0.55	0.06	0.064	0.009	2.7	5.2
1FARKSS0004	5/16/2006 9:15	0.5	21	0.05	0.51	0.22	0.08	0.035	5.6	10.3
1FARKSS0004	6/20/2006 9:15	0.5	16	0.05	0.52	0.06	0.057	0.008	4	15.3
1FARKSS0004	7/18/2006 9:25	0.5	8.8	0.05	0.17	0.06	0.043	0.005	3.9	6.6
1FARKSS0004	8/22/2006 9:10	0.5	21	0.053	0.93	0.12	0.036	0.028	4.1	22.7
1FARKSS0004	9/19/2006 9:15	0.5	38	0.05	0.51	0.12	0.19	0.034	3.9	18.6
1FARKSS0004	10/17/2006 9:10	0.5	27	0.051	0.76	0.27	0.1	0.034	3.8	6.3
1FARKSS0004	11/14/2006 9:25	0.5	31	0.05	0.62	0.33	0.1	0.03	3.7	8.5
1FARKSS0004	12/19/2006 9:40	0.5	12	0.05	1	0.24	0.035	0.007	4	8.1
1FARKSS0004	3/21/2007 9:10	0.5	40	0.1	0.68	0.2	0.088	0.01	3.6	8.9
1FARKSS0004	4/17/2007 9:05	0.5	47	0.1	0.71	0.27	0.14	0.055	4.8	2.5
1FARKSS0004	5/22/2007 9:20	0.5	66	0.1	0.63	0.24	0.1	0.032	4.2	5.6
1FARKSS0004	6/19/2007 9:20	0.5	18	0.1	0.5	0.2	0.065	0.007	3.8	
1FARKSS0004	7/17/2007 9:20	0.5	5.8	0.1	0.51	0.2	0.045	0.011	4.6	4.4
1FARKSS0004	8/21/2007 9:10	0.5	31	0.22	0.79	0.2	0.099	0.031	4	5.6
1FARKSS0004	9/18/2007 9:15	0.5	46	0.1	0.57	1.02	0.076	0.025	3.7	4.6
1FARKSS0004	10/23/2007 9:20	0.5	5	0.1	0.5	0.62	0.055	0.035	3.5	6.4
1FARKSS0004	11/20/2007 9:20	0.5	15	0.1	0.5	0.52	0.053	0.018	3.6	8.1
1FARKSS0004	12/18/2007 9:15	0.5	14	0.1	0.5	0.43	0.037	0.005	3.7	12.7
1FARKSS0004	1/29/2008 9:45	0.5	150	0.1	0.72	0.2	0.19	0.005	3.5	16.1

Table 14 USACE 1TORKSS0017 (Dam Site of Toronto Lake) Water Chemistry Results

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
1TORKSS0017	12/2/2003 10:20	0.5	14	0.04	0.3	0.37	0.063	0.027	3.9	6
1TORKSS0017	2/24/2004 10:20	0.5	57	0.038	0.87	0.21	0.076	0.01	4.5	9.4
1TORKSS0017	3/23/2004 10:40	0.5	55	0.095	0.73	0.24	0.17	0.068	4.6	3.7
1TORKSS0017	4/20/2004 11:00	0.5	36	0.11	0.89	0.16	0.13	0.054	4.5	2.8
1TORKSS0017	5/18/2004 10:30	0.5	24	0.07	0.98	0.36	0.093	0.038	5	4.7
1TORKSS0017	6/22/2004 10:30	0.5	26	0.08	0.64	0.24	0.089	0.033	4.1	6.3
1TORKSS0017	7/20/2004 11:00	0.5	12	0.041	0.74	0.16	0.079	0.048	5	8.6
1TORKSS0017	8/17/2004 11:20	0.5	11	0.038	0.74	0.061	0.09	0.021	4.5	8.3
1TORKSS0017	9/21/2004 9:35	0.5	28	0.038	0.57	0.061	0.043	0.024	4.1	18.1
1TORKSS0017	11/22/2004 9:45	0.5	26	0.038	0.57	0.19	0.11	0.047	5.1	4.5
1TORKSS0017	12/20/2004 10:00	0.5	16	0.038	1.08	0.19	0.068	0.032	4.7	8.2
1TORKSS0017	2/22/2005 10:10	0.5	36	0.092	0.5	0.18	0.077	0.016	4.5	14.2
1TORKSS0017	3/22/2005 9:50	0.5	27	0.03	0.62	0.04	0.057	0.005	3.3	5.6
1TORKSS0017	4/21/2005 9:50	0.5	35	0.19	0.87	0.055	0.11	0.016		19.6
1TORKSS0017	5/17/2005 10:00	0.5	38	0.03	0.66	0.22	0.068	0.015	4.6	20.4
1TORKSS0017	6/21/2005 10:30	0.5	9	0.03	0.35	0.04	0.064	0.011	5.6	19.1
1TORKSS0017	7/19/2005 10:10	0.5	26	0.064		0.04	0.11	0.02	4.7	33.6
1TORKSS0017	8/22/2005 10:10	0.5	14	0.05	0.64	0.24	0.13	0.033	4.2	12
1TORKSS0017	9/19/2005 10:05	0.5	25	0.05	0.35	0.22	0.12	0.045	3.9	5.9
1TORKSS0017	11/21/2005 9:50	0.2	7.5	0.05	0.91	0.38	0.12	0.016	3.6	11.5
1TORKSS0017	1/17/2006 9:45	0.5	23	0.05	0.64	0.06	0.14	0.005	4	14
1TORKSS0017	3/21/2006 9:45	0.5	35	0.05	0.62	0.06	0.053	0.018	3.6	13.4

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
1TORKSS0017	4/18/2006 9:45	0.5	31	0.05	0.69	0.06	0.088	0.005	3.7	17.7
1TORKSS0017	5/16/2006 9:50	0.5	18	0.068	0.71	0.17	0.094	0.034	7.2	10.4
1TORKSS0017	6/20/2006 10:00	0.5	26	0.05	0.64	0.06	0.036	0.017	5.3	15.6
1TORKSS0017	7/18/2006 10:20	0.5	13	0.05	0.65	0.06	0.072	0.012	5.4	15.5
1TORKSS0017	8/22/2006 9:50	0.5	31	0.05	0.9	0.29	0.076	0.068	5.5	17.5
1TORKSS0017	9/19/2006 9:55	0.5	40	0.05	1.09	0.06	0.2	0.03	5.3	34.6
1TORKSS0017	10/17/2006 9:50	0.5	24	0.05	0.8	0.06	0.099	0.031	5.4	16.4
1TORKSS0017	11/14/2006 10:25	0.5	26	0.052	0.82	0.06	0.082	0.024	5.2	9.7
1TORKSS0017	12/19/2006 10:40	0.5	28	0.05	1.03	0.06	0.044	0.018	5.4	12.5
1TORKSS0017	3/21/2007 9:50	0.5	100	0.1	0.89	0.41	0.11	0.015	5	19.9
1TORKSS0017	4/17/2007 9:40	0.5	46	0.1	0.94	0.26	0.16	0.058	6.2	6.2
1TORKSS0017	5/22/2007 10:10	0.5	30	0.1	0.74	0.2	0.11	0.033	5.6	0.9
1TORKSS0017	6/19/2007 10:05	0.5	34	0.1	0.5	0.2	0.13	0.013	4.5	
1TORKSS0017	7/17/2007 10:00	0.5	5.6	0.1	1.1	0.2	0.068	0.018	5.2	9.1
1TORKSS0017	8/21/2007 9:55	0.5	32	0.17	0.71	0.2	0.11	0.032	4.6	0.5
1TORKSS0017	9/18/2007 10:10	0.5	68	0.1	0.67	0.5	0.15	0.049	4.4	5.8
1TORKSS0017	10/23/2007 10:15	0.5	26	0.1	0.68	0.45	0.061	0.04	4.2	10.5
1TORKSS0017	11/20/2007 10:15	0.5	20	0.1	0.78	0.2	0.073	0.005	4.6	25.6
1TORKSS0017	12/18/2007 10:05	0.5	9.3	0.1	0.73	0.2	0.036	0.005	4.9	10.4
1TORKSS0017	1/29/2008 10:30	0.5	490	0.1	1.2	0.2	0.11	0.005	5.3	30

Table 15 USACE OOL-1 Water Chemistry Results

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
OOL-1	1/10/2006 12:00	0.5	4	<0.050	0.19	0.072	0.031	0.023	3.3	4.1
OOL-1	1/10/2006 12:00	19	3.6	<0.050	0.26	0.073	0.033	0.023	3.2	
OOL-1	2/14/2006 11:45	0.5	2.2	<0.050	0.45	<0.060	0.03	0.013	3.2	2.7
OOL-1	2/14/2006 11:45	19	2.8	<0.050	0.44	<0.060	0.027	0.01	3.1	
OOL-1	4/11/2006 9:40	0.5	2.2	<0.050	0.42	<0.060	0.021	0.01	3.2	1.8
OOL-1	4/11/2006 9:40	19	3.6	<0.050	0.39	<0.060	0.026	0.02	3.2	
OOL-1	5/9/2006 11:15	0.5	2.8	<0.050	0.39	<0.060	0.021	0.019	3	0.7
OOL-1	5/9/2006 11:15	21	3.2	<0.050	0.35	<0.060	0.036	0.021	2.9	
OOL-1	6/15/2006 11:10	0.5	5	<0.050	0.62	0.12	0.054	0.006	4.1	6.3
OOL-1	6/15/2006 11:10	20	9.5	<0.050	0.51	0.32	0.093	0.047	3.9	
OOL-1	7/11/2006 11:20	0.5	3.4	<0.050	<0.10	0.074	0.033	0.015	4	2.7
OOL-1	7/11/2006 11:20	20	9.4	0.16	0.41	0.11	0.063	0.051	3.9	
OOL-1	8/15/2006 11:00	0.5	2.8	<0.050	0.86	<0.060	0.034	<0.0050	4.2	7.6
OOL-1	8/15/2006 11:00	19	8.4	<0.050	0.23	0.19	0.41	<0.0050	3.9	
OOL-1	9/12/2006 8:40	0.5	4.7	<0.050	0.34	0.094	0.063	0.038	3.8	6.3
OOL-1	9/12/2006 8:40	19	9.6	<0.050	0.32	0.13	0.081	0.048	3.9	
OOL-1	10/11/2006 13:35	0.5	6.8	<0.050	0.9	0.067	0.061	0.037	3.8	2.8
OOL-1	10/11/2006 13:35	19	8.9	<0.050	0.98	0.067	0.067	0.039	3.8	
OOL-1	11/7/2006 13:10	0.5	4.6	<0.050		0.069	0.052	0.037	3.7	3
OOL-1	11/7/2006 13:10	19	6.8	<0.050	0.24	0.078	0.059	0.037	3.8	
OOL-1	12/12/2006 11:20	0.5	3.2	0.079	0.62	0.08	0.039	0.026	3.6	2.6
OOL-1	12/12/2006 11:20	19	3.6	<0.050	0.16	0.076	0.043	0.029	3.7	

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
OOL-1	2/27/2007 12:45	0.5	3.3	<0.10	0.5	<0.20	0.034	0.009	3.8	4.3
OOL-1	2/27/2007 12:45	20	2.3	<0.10	1.28	<0.20	0.033	0.009	3.9	
OOL-1	3/13/2007 11:10	0.5	3.6	<0.10	0.5	<0.20	0.036	0.008	3.7	2.1
OOL-1	3/13/2007 11:10	20	6.6	<0.10	0.5	<0.20	0.034	0.008	3.8	
OOL-1	4/10/2007 11:10	0.5	6	<0.10	0.5	<0.20	0.029	0.017	3.7	1.4
OOL-1	4/10/2007 11:10	21	13	<0.10	0.5	<0.20	0.033	0.018	3.7	
OOL-1	5/16/2007 11:05	0.5	6	<0.10	0.58	0.52	0.1	0.051	5.6	2.8
OOL-1	5/16/2007 11:05	15	6.6	<0.10	0.58	0.52	0.09	0.051	5.3	
OOL-1	6/12/2007 11:30	0.5	5.2	<0.10	0.54	0.4	0.086	0.05	5.5	1.4
OOL-1	6/12/2007 11:30	22	3.4	<0.10	0.5	0.43	0.086	0.054	5.4	
OOL-1	7/10/2007 11:25	0.5	8	<0.10	0.53	0.28	0.11	0.068	4.6	3.2
OOL-1	7/10/2007 11:25	27	17	<0.10	0.64	0.22	0.12	0.051	4.8	
OOL-1	8/14/2007 11:35	0.5	3.4	<0.10	0.64	<0.20	0.027	0.01	4.3	6.5
OOL-1	8/14/2007 11:35	21	7.8	0.11	0.88	<0.20	0.12	0.087	4.1	
OOL-1	9/11/2007 8:50	0.5	6	<0.10	0.52	<0.20	0.081	0.051	3.7	2.4
OOL-1	9/11/2007 8:50	20	10	<0.10	0.5	<0.20	0.084	0.05	3.7	
OOL-1	10/18/2007 10:45	0.5	4.8	<0.10	0.5	<0.20	0.063	0.05	3.5	0.9
OOL-1	10/18/2007 10:45	20	6	<0.10	0.5	<0.20	0.069	0.052	3.5	
OOL-1	11/13/2007 11:50	0.5	6.6	<0.10	0.51	<0.20	0.049	0.027	3.7	9.2
OOL-1	11/13/2007 11:50	19	5.6	<0.10	0.5	<0.20	0.059	0.03	3.7	

Table 16 USACE OOL-2 Water Chemistry Results

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
OOL-2	1/10/2006 11:30	0.5	6.8	<0.050	0.24	<0.060	0.03	0.012	3.4	4.6
OOL-2	2/14/2006 11:00	0.5	9	<0.050	0.3	<0.060	0.027	0.009	3.1	2.6
OOL-2	4/11/2006 9:05	0.5	6.6	<0.050	0.37	<0.060	0.03	0.011	3.2	3.2
OOL-2	5/9/2006 10:50	0.5	5.6	<0.050	0.5	0.14	0.051	0.047	3	4.2
OOL-2	6/15/2006 10:40	0.5	6.5	<0.050	0.48	<0.060	0.041	<0.0050	4.3	13.6
OOL-2	7/11/2006 10:50	0.5	6.6	<0.050	0.18	0.083	0.22	0.028	4.1	8.1
OOL-2	8/15/2006 10:35	0.5	5.4	<0.050	0.84	<0.060	0.063	<0.0050	4.1	7.7
OOL-2	9/12/2006 9:20	0.5	7.7	<0.050	0.33	<0.060	0.059	0.028	4	9.4
OOL-2	10/11/2006 12:55	0.5	9.2	<0.050	0.61	<0.060	0.07	0.037	4	5.1
OOL-2	11/7/2006 10:35	0.5	5.4	<0.050		0.074	0.058	0.038	3.8	3.4
OOL-2	12/12/2006 11:00	0.5	4.8	<0.050	0.32	0.08	0.041	0.026	3.7	3.8
OOL-2	2/27/2007 12:15	0.5	5	<0.10	0.5	<0.20	0.03	0.007	3.9	3.5
OOL-2	3/13/2007 10:35	0.5	5.2	<0.10	0.5	<0.20	0.029	0.008	4	2.4
OOL-2	4/10/2007 9:05	0.5	7.2	<0.10	0.53	0.26	0.056	0.039	4.3	0.8
OOL-2	5/16/2007 10:40	0.5	20	<0.10	0.65	0.48	0.11	0.056	5.9	3.4
OOL-2	6/12/2007 11:00	0.5	6.2	<0.10	0.63	0.36	0.11	0.047	5.2	1
OOL-2	7/10/2007 12:10	0.5	5.6	<0.10	0.5	<0.20	0.09	0.05	4.4	5.8
OOL-2	8/14/2007 11:05	0.5	4.6	<0.10	0.5	<0.20	0.03	0.007	4.4	8.7
OOL-2	9/11/2007 11:30	0.5	13	<0.10	0.5	0.2	0.092	0.053	3.6	2.5
OOL-2	10/18/2007 10:15	0.5	10	<0.10	0.5	<0.20	0.073	0.045	3.6	5.9
OOL-2	11/13/2007 9:50	0.5	6.4	<0.10	0.5	<0.20	0.053	0.022	3.9	11.5

Table 17 USACE OOL-3 Water Chemistry Results

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
OOL-3	1/10/2006 9:45	0.5	7.6	<0.050	0.48	<0.060	0.04	0.012	3.4	4.6
OOL-3	2/14/2006 10:30	0.5	6.4	<0.050	0.42	<0.060	0.028	0.008	3.1	3.7
OOL-3	5/9/2006 10:20	0.5	29	0.051	0.65	0.41	0.1	0.048	4.4	3.6
OOL-3	6/15/2006 10:15	0.5	11	<0.050	0.57	<0.060	0.06	0.006	4.5	16
OOL-3	7/11/2006 10:30	0.5	14	<0.050	0.82	<0.060	0.058	0.025	4.1	9
OOL-3	8/15/2006 10:10	0.5	7.2	<0.050	0.35	<0.060	0.057	<0.0050	4.2	7.8
OOL-3	9/12/2006 9:45	0.5	8.2	<0.050	0.27	<0.060	0.081	0.046	4.1	6.9
OOL-3	10/11/2006 12:20	0.5	12	<0.050		<0.060	0.085	0.043	4.2	8.8
OOL-3	11/7/2006 11:15	0.5	11	<0.050	0.1	0.086	0.07	0.044	3.9	4.9
OOL-3	12/12/2006 9:20	0.5	10	<0.050	0.2	0.086	0.043	0.03	3.8	3.5
OOL-3	2/27/2007 11:55	0.5	5.3	<0.10	0.5	<0.20	0.037	0.005	4.1	4.3
OOL-3	3/13/2007 10:10	0.5	10	<0.10	0.6	<0.20	0.044	0.008	4.5	9.8
OOL-3	4/10/2007 9:30	0.5	15	<0.10	0.75	0.44	0.073	0.062	5.4	1.1
OOL-3	5/16/2007 10:05	0.5	16	<0.10	0.83	0.38	0.14	0.072	6.9	3.4
OOL-3	6/12/2007 10:30	0.5	14	<0.10	0.58	0.3	0.11	0.044	5.1	1.8
OOL-3	7/10/2007 12:30	0.5	9.6	<0.10	0.5	<0.20	0.11	0.064	4.4	5.1
OOL-3	8/14/2007 10:40	0.5	3.8	<0.10	0.68	<0.20	0.027	0.005	4.2	6.9
OOL-3	9/11/2007 11:00	0.5	31	<0.10	0.5	0.22	0.11	0.066	3.9	2.4
OOL-3	10/18/2007 9:55	0.5	11	<0.10	0.5	<0.20	0.071	0.044	3.6	7.1
OOL-3	11/13/2007 10:20	0.5	9.6	<0.10	0.51	<0.20	0.056	0.022	4	10.4

Table 18 USACE OOL-4 Water Chemistry Results

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
OOL-4	1/10/2006 10:15	0.5	23	<0.050	0.49	<0.060	0.061	0.013	3.3	9.6
OOL-4	2/14/2006 9:10	0.5	16	0.064	0.49	<0.060	0.048	0.007	3.2	5.3
OOL-4	5/9/2006 10:00	0.5	43	0.074	0.94	0.46	0.16	0.061	5.9	2.5
OOL-4	6/15/2006 9:50	0.5	27	<0.050	0.5	<0.060	0.11	0.023	5.1	17.6
OOL-4	7/11/2006 10:05	0.5	31	<0.050	1.15	<0.060	0.11	0.034	4.7	13.4
OOL-4	8/15/2006 9:50	0.5	16	<0.050	0.42	<0.060	0.1	0.041	4.6	13.4
OOL-4	9/12/2006 10:10	0.5	19	<0.050	0.36	<0.060	0.13	0.065	4.5	10.7
OOL-4	10/11/2006 11:50	0.5	23	<0.050	0.72	<0.060	0.12	0.06	4.4	6.2
OOL-4	11/7/2006 11:50	0.5	19	<0.050		0.12	0.1	0.054	4.1	5.3
OOL-4	12/12/2006 9:45	0.5	17	0.052	0.34	0.12	0.068	0.037	3.8	4.7
OOL-4	2/27/2007 11:30	0.5	21	<0.10	0.76	<0.20	0.068	0.005	4.8	17.9
OOL-4	3/13/2007 9:40	0.5	12	<0.10	0.5	<0.20	0.05	0.008	4.7	9.9
OOL-4	5/16/2007 9:35	0.5	21	<0.10	0.94	0.4	0.17	0.081	6.7	0.8
OOL-4	6/12/2007 9:30	0.5	36	<0.10	0.7	0.29	0.16	0.047	4.6	2.6
OOL-4	8/14/2007 9:45	0.5	5.6	0.12	0.62	<0.20	0.037	0.01	4.2	11
OOL-4	9/11/2007 10:30	0.5	31	<0.10	0.5	0.23	0.12	0.063	3.9	2.3
OOL-4	10/18/2007 9:10	0.5	29	<0.10	0.56	<0.20	0.096	0.033	4	14.6
OOL-4	11/13/2007 11:15	0.5	15	<0.10	0.65	<0.20	0.06	0.018	4.1	12.1

Table 19 USACE OOL-5 Water Chemistry Results

Station	Sample Date/Time	Depth (m)	TSS (mg/L)	NH4 (mg/L)	TKN (mg/L)	NOX (mg/L)	TP (mg/L)	TPO4 (mg/L)	TOC (mg/L)	Chlorophyll-a (µg/L)
OOL-5	1/10/2006 10:45	0.5	48	<0.050	0.55	<0.060	0.13	0.018	3.3	11.1
OOL-5	2/14/2006 9:45	0.5	77	<0.050	0.79	<0.060	0.13	0.007	3.2	7.7
OOL-5	5/9/2006 9:35	0.5	47	0.069	1.11	0.55	0.11	0.065	7.7	6
OOL-5	6/15/2006 9:30	0.5	49	<0.050	1.26	<0.060	0.17	0.024	5.5	25.8
OOL-5	7/11/2006 9:35	0.5	85	<0.050	0.88	<0.060	0.19	0.031	4.8	20.4
OOL-5	8/15/2006 9:30	0.5	70	<0.050	0.83	<0.060	0.17	0.007	5.1	24.8
OOL-5	9/12/2006 10:30	0.5	78	<0.050	0.77	<0.060	0.2	0.037	5.1	27.6
OOL-5	10/11/2006 11:20	0.5	67	<0.050	1.21	<0.060	0.2	0.049	5.3	13.1
OOL-5	11/7/2006 12:15	0.5	32	<0.050	0.44	0.13	0.11	0.051	4.1	5.3
OOL-5	12/12/2006 10:10	0.5	53	0.054	0.46	0.17	0.11	0.034	3.8	6.2
OOL-5	2/27/2007 11:00	0.5	20	0.13	0.996	0.95	0.15	0.068	6	10.5
OOL-5	3/13/2007 9:10	0.5	16	<0.10	0.84	<0.20	0.059	0.007	4.7	12.9
OOL-5	4/10/2007 10:15	0.5	57	<0.10	0.81	0.43	0.09	0.091	6	3
OOL-5	5/16/2007 9:10	0.5	17	<0.10	0.84	0.36	0.17	0.069	6.8	5.9
OOL-5	6/12/2007 10:00	0.5	87	<0.10	1.23	0.24	0.21	0.052	5	<0.1
OOL-5	8/14/2007 10:05	0.5	8.6	0.14	0.73	<0.20	0.033	0.009	4.2	9.3
OOL-5	9/11/2007 10:10	0.5	58	<0.10	0.5	0.26	0.16	0.051	4	6.3
OOL-5	10/18/2007 9:30	0.5	77	<0.10	0.81	<0.20	0.18	0.031	4	22.8
OOL-5	11/13/2007 10:50	0.5	35	<0.10	0.86	<0.20	0.098	0.015	4.3	18.5

Table 20 USACE OO-1 Vertical Profile Water Quality Monitoring Results

Station	Sample Date/Time	Depth (m)	Temperature (°C)	pH	Specific Conductivity (uS/cm)	DO (mg/L)
OOL-1	1/10/2006 12:00	0.1	6.37	8.23	234	13.06
OOL-1	1/10/2006 12:00	0.5	6.37	8.23	234	13.04
OOL-1	1/10/2006 12:00	1	6.37	8.23	233	13.02
OOL-1	1/10/2006 12:00	2	6.37	8.23	234	13
OOL-1	1/10/2006 12:00	3	6.37	8.23	234	12.98
OOL-1	1/10/2006 12:00	4	6.37	8.23	234	12.96
OOL-1	1/10/2006 12:00	5	6.36	8.23	234	12.94
OOL-1	1/10/2006 12:00	6	6.36	8.23	234	12.91
OOL-1	1/10/2006 12:00	7	6.36	8.22	234	12.88
OOL-1	1/10/2006 12:00	8	6.36	8.23	234	12.84
OOL-1	1/10/2006 12:00	9	6.36	8.23	234	12.81
OOL-1	1/10/2006 12:00	10	6.36	8.23	234	12.78
OOL-1	1/10/2006 12:00	11	6.36	8.23	234	12.72
OOL-1	1/10/2006 12:00	12	6.36	8.23	234	12.65
OOL-1	1/10/2006 12:00	13	6.35	8.22	234	12.52
OOL-1	1/10/2006 12:00	14	6.35	8.23	234	12.38
OOL-1	1/10/2006 12:00	15	6.34	8.23	234	12.12
OOL-1	1/10/2006 12:00	16	6.32	8.23	234	11.9
OOL-1	1/10/2006 12:00	17	6.31	8.25	234	11.63
OOL-1	1/10/2006 12:00	18	6.31	8.25	234	11.27
OOL-1	1/10/2006 12:00	19	6.31	8.25	234	10.82
OOL-1	1/10/2006 12:00	20	6.3	8.18	242	10.22
OOL-1	2/14/2006 11:45	0.1	6.29	8.1	236	12.79
OOL-1	2/14/2006 11:45	0.5	6.25	8.1	235	12.81
OOL-1	2/14/2006 11:45	1	6.26	8.09	235	12.78
OOL-1	2/14/2006 11:45	2	6.21	8.09	235	12.77
OOL-1	2/14/2006 11:45	3	6.16	8.11	235	12.78
OOL-1	2/14/2006 11:45	4	6.09	8.1	235	12.8
OOL-1	2/14/2006 11:45	5	6.06	8.1	236	12.81
OOL-1	2/14/2006 11:45	6	6.06	8.09	236	12.82
OOL-1	2/14/2006 11:45	7	6.06	8.1	236	12.81
OOL-1	2/14/2006 11:45	8	6.06	8.1	236	12.81
OOL-1	2/14/2006 11:45	9	6.06	8.1	236	12.81

OOL-1	2/14/2006 11:45	10	6.06	8.09	236	12.8
OOL-1	2/14/2006 11:45	11	6.06	8.1	236	12.8
OOL-1	2/14/2006 11:45	12	6.06	8.1	236	12.8
OOL-1	2/14/2006 11:45	13	6.06	8.1	236	12.8
OOL-1	2/14/2006 11:45	14	6.06	8.1	236	12.8
OOL-1	2/14/2006 11:45	15	6.06	8.11	235	12.8
OOL-1	2/14/2006 11:45	16	6.06	8.11	236	12.8
OOL-1	2/14/2006 11:45	17	6.06	8.1	236	12.8
OOL-1	2/14/2006 11:45	18	6.06	8.11	236	12.8
OOL-1	2/14/2006 11:45	19	6.06	8.1	236	12.79
OOL-1	4/11/2006 9:40	0.1	14.09	8.05	240	9.82
OOL-1	4/11/2006 9:40	0.5	14.08	8.06	240	9.82
OOL-1	4/11/2006 9:40	1	14.09	8.05	240	9.82
OOL-1	4/11/2006 9:40	2	14.08	8.04	240	9.81
OOL-1	4/11/2006 9:40	3	14.06	8.05	240	9.8
OOL-1	4/11/2006 9:40	4	14.04	8.04	240	9.78
OOL-1	4/11/2006 9:40	5	14.02	8.03	240	9.76
OOL-1	4/11/2006 9:40	6	13.96	8.03	240	9.75
OOL-1	4/11/2006 9:40	7	13.92	8.03	240	9.75
OOL-1	4/11/2006 9:40	8	13.9	8.03	240	9.74
OOL-1	4/11/2006 9:40	9	13.89	8.02	240	9.72
OOL-1	4/11/2006 9:40	10	13.88	8.03	240	9.7
OOL-1	4/11/2006 9:40	11	13.87	8.03	240	9.65
OOL-1	4/11/2006 9:40	12	13.85	8.01	240	9.6
OOL-1	4/11/2006 9:40	13	13.83	8	240	9.53
OOL-1	4/11/2006 9:40	14	13.8	7.99	240	9.53
OOL-1	4/11/2006 9:40	15	13.76	7.98	240	9.53
OOL-1	4/11/2006 9:40	16	13.75	7.99	240	9.53
OOL-1	4/11/2006 9:40	17	13.49	7.97	240	9.52
OOL-1	4/11/2006 9:40	18	13.39	7.96	240	9.39
OOL-1	4/11/2006 9:40	19	13.21	7.97	240	9.39
OOL-1	5/9/2006 11:15	0.1	19.1	8.11	246	8.82
OOL-1	5/9/2006 11:15	0.5	18.91	8.13	245	8.82
OOL-1	5/9/2006 11:15	1	18.4	8.1	246	8.81
OOL-1	5/9/2006 11:15	2	18.38	8.11	246	8.83
OOL-1	5/9/2006 11:15	3	18.35	8.12	246	8.84
OOL-1	5/9/2006 11:15	4	18.35	8.11	246	8.83

OOL-1	5/9/2006 11:15	5	18.36	8.14	246	8.85
OOL-1	5/9/2006 11:15	6	18.35	8.12	246	8.82
OOL-1	5/9/2006 11:15	7	18.34	8.11	246	8.82
OOL-1	5/9/2006 11:15	8	18.34	8.12	245	8.8
OOL-1	5/9/2006 11:15	9	18.33	8.12	246	8.8
OOL-1	5/9/2006 11:15	10	18.33	8.11	246	8.8
OOL-1	5/9/2006 11:15	11	18.33	8.12	246	8.8
OOL-1	5/9/2006 11:15	12	18.33	8.12	246	8.78
OOL-1	5/9/2006 11:15	13	18.31	8.12	246	8.77
OOL-1	5/9/2006 11:15	14	18.32	8.12	246	8.77
OOL-1	5/9/2006 11:15	15	18.32	8.12	246	8.77
OOL-1	5/9/2006 11:15	16	18.29	8.12	246	8.75
OOL-1	5/9/2006 11:15	17	18.28	8.12	246	8.74
OOL-1	5/9/2006 11:15	18	18.25	8.11	246	8.74
OOL-1	5/9/2006 11:15	19	18.26	8.12	246	8.7
OOL-1	5/9/2006 11:15	20	18.24	8.09	246	8.65
OOL-1	5/9/2006 11:15	21	18.24	8.07	246	8.66
OOL-1	6/15/2006 11:10	0.1	25.55	7.81	279	5.28
OOL-1	6/15/2006 11:10	0.5	25.53	7.73	279	5.21
OOL-1	6/15/2006 11:10	1	25.46	7.7	279	5.12
OOL-1	6/15/2006 11:10	2	25.12	7.58	279	4.56
OOL-1	6/15/2006 11:10	3	25.07	7.58	279	4.46
OOL-1	6/15/2006 11:10	4	25.02	7.58	279	4.33
OOL-1	6/15/2006 11:10	5	24.96	7.57	279	4.27
OOL-1	6/15/2006 11:10	6	24.9	7.5	279	4.07
OOL-1	6/15/2006 11:10	7	24.82	7.42	279	3.79
OOL-1	6/15/2006 11:10	8	24.61	7.38	279	3.42
OOL-1	6/15/2006 11:10	9	24.39	7.32	280	2.85
OOL-1	6/15/2006 11:10	10	24	7.27	281	2.24
OOL-1	6/15/2006 11:10	11	23.31	7.24	283	1.45
OOL-1	6/15/2006 11:10	12	22.75	7.23	283	1.04
OOL-1	6/15/2006 11:10	13	21.85	7.23	284	0.95
OOL-1	6/15/2006 11:10	14	21.59	7.32	284	1.08
OOL-1	6/15/2006 11:10	15	21.38	7.33	285	0.97
OOL-1	6/15/2006 11:10	16	21.24	7.35	286	0.83
OOL-1	6/15/2006 11:10	17	21.1	7.36	286	0.7
OOL-1	6/15/2006 11:10	18	20.91	7.38	288	0.58

OOL-1	6/15/2006 11:10	19	20.81	7.39	288	0.58
OOL-1	6/15/2006 11:10	20	20.67	7.42	289	0.63
OOL-1	7/11/2006 11:20	0.1	26.62	7.58	284	6.38
OOL-1	7/11/2006 11:20	0.5	26.61	7.54	283	6.38
OOL-1	7/11/2006 11:20	1	26.45	7.55	284	6.21
OOL-1	7/11/2006 11:20	2	26.17	7.53	283	6.08
OOL-1	7/11/2006 11:20	3	26.15	7.51	284	5.83
OOL-1	7/11/2006 11:20	4	26.15	7.49	283	5.82
OOL-1	7/11/2006 11:20	5	26.15	7.48	284	5.84
OOL-1	7/11/2006 11:20	6	26.14	7.47	283	5.85
OOL-1	7/11/2006 11:20	7	26.14	7.41	284	5.73
OOL-1	7/11/2006 11:20	8	26.1	7.36	284	5.39
OOL-1	7/11/2006 11:20	9	26.07	7.28	284	4.66
OOL-1	7/11/2006 11:20	10	25.95	7.24	285	3.5
OOL-1	7/11/2006 11:20	11	25.75	7.2	285	2.37
OOL-1	7/11/2006 11:20	12	25.63	7.2	286	2.11
OOL-1	7/11/2006 11:20	13	25.56	7.21	286	1.83
OOL-1	7/11/2006 11:20	14	24.4	7.2	287	0.62
OOL-1	7/11/2006 11:20	15	24	7.18	288	0.59
OOL-1	7/11/2006 11:20	16	23.63	7.2	289	0.5
OOL-1	7/11/2006 11:20	17	23.42	7.23	290	0.49
OOL-1	7/11/2006 11:20	18	23.25	7.25	291	0.5
OOL-1	7/11/2006 11:20	19	23.05	7.26	292	0.52
OOL-1	7/11/2006 11:20	20	22.85	7.28	293	0.56
OOL-1	8/15/2006 11:00	0.1	30.01	8.2	294	7.87
OOL-1	8/15/2006 11:00	0.5	30.01	8.2	294	7.85
OOL-1	8/15/2006 11:00	1	29.96	8.21	294	7.86
OOL-1	8/15/2006 11:00	2	29.8	8.2	294	7.71
OOL-1	8/15/2006 11:00	3	29.75	8.15	294	7.55
OOL-1	8/15/2006 11:00	4	29.72	8.13	294	7.36
OOL-1	8/15/2006 11:00	5	29.71	8.1	295	7.33
OOL-1	8/15/2006 11:00	6	29.71	8.07	295	7.29
OOL-1	8/15/2006 11:00	7	29.7	7.97	295	7.21
OOL-1	8/15/2006 11:00	8	29.58	7.89	295	6.83
OOL-1	8/15/2006 11:00	9	29.07	7.81	295	6
OOL-1	8/15/2006 11:00	10	28.98	7.8	294	6.14
OOL-1	8/15/2006 11:00	11	28.91	7.76	295	5.66

OOL-1	8/15/2006 11:00	12	28.86	7.74	295	5.66
OOL-1	8/15/2006 11:00	13	28.59	7.67	295	5.07
OOL-1	8/15/2006 11:00	14	28.25	7.59	295	3.68
OOL-1	8/15/2006 11:00	15	27.95	7.55	295	2.38
OOL-1	8/15/2006 11:00	16	27.81	7.52	295	1.85
OOL-1	8/15/2006 11:00	17	27.53	7.53	295	0.9
OOL-1	8/15/2006 11:00	18	27.44	7.55	296	0.7
OOL-1	8/15/2006 11:00	19	27.34	7.6	296	0.56
OOL-1	8/15/2006 11:00	20	26.97	7.68	300	0.49
OOL-1	9/12/2006 8:40	0.1	26.27	8.07	298	6.7
OOL-1	9/12/2006 8:40	0.5	26.28	8.05	298	6.7
OOL-1	9/12/2006 8:40	1	26.28	7.99	298	6.69
OOL-1	9/12/2006 8:40	2	26.27	7.99	298	6.68
OOL-1	9/12/2006 8:40	3	26.27	7.99	298	6.66
OOL-1	9/12/2006 8:40	4	26.25	7.95	298	6.53
OOL-1	9/12/2006 8:40	5	26.14	7.9	298	6.13
OOL-1	9/12/2006 8:40	6	26	7.9	298	5.74
OOL-1	9/12/2006 8:40	7	25.96	7.86	299	5.44
OOL-1	9/12/2006 8:40	8	25.91	7.84	299	5
OOL-1	9/12/2006 8:40	9	25.84	7.88	299	5
OOL-1	9/12/2006 8:40	10	25.83	7.91	299	5.01
OOL-1	9/12/2006 8:40	11	25.82	7.89	299	5.22
OOL-1	9/12/2006 8:40	12	25.82	7.9	299	5.23
OOL-1	9/12/2006 8:40	13	25.8	7.91	298	5.44
OOL-1	9/12/2006 8:40	14	25.79	7.91	299	5.45
OOL-1	9/12/2006 8:40	15	25.79	7.91	299	5.34
OOL-1	9/12/2006 8:40	16	25.77	7.94	299	5.12
OOL-1	9/12/2006 8:40	17	25.76	7.93	299	4.93
OOL-1	9/12/2006 8:40	18	25.75	7.93	299	4.85
OOL-1	9/12/2006 8:40	19	25.73	7.96	300	4.55
OOL-1	10/11/2006 13:35	0.1	21.27	8.17	300	8.02
OOL-1	10/11/2006 13:35	0.5	21.22	8.19	301	7.93
OOL-1	10/11/2006 13:35	1	21	8.16	301	7.89
OOL-1	10/11/2006 13:35	2	20.93	8.16	300	7.9
OOL-1	10/11/2006 13:35	3	20.92	8.16	300	7.9
OOL-1	10/11/2006 13:35	4	20.91	8.16	300	7.89
OOL-1	10/11/2006 13:35	5	20.91	8.14	300	7.88

OOL-1	10/11/2006 13:35	6	20.91	8.13	300	7.87
OOL-1	10/11/2006 13:35	7	20.9	8.12	300	7.84
OOL-1	10/11/2006 13:35	8	20.89	8.12	300	7.83
OOL-1	10/11/2006 13:35	9	20.89	8.13	300	7.83
OOL-1	10/11/2006 13:35	10	20.89	8.12	300	7.81
OOL-1	10/11/2006 13:35	11	20.89	8.13	300	7.82
OOL-1	10/11/2006 13:35	12	20.88	8.14	300	7.83
OOL-1	10/11/2006 13:35	13	20.88	8.13	300	7.83
OOL-1	10/11/2006 13:35	14	20.88	8.12	300	7.82
OOL-1	10/11/2006 13:35	15	20.87	8.12	300	7.82
OOL-1	10/11/2006 13:35	16	20.87	8.13	300	7.81
OOL-1	10/11/2006 13:35	17	20.87	8.13	300	7.76
OOL-1	10/11/2006 13:35	18	20.86	8.12	300	7.74
OOL-1	10/11/2006 13:35	19	20.86	8.08	300	7.67
OOL-1	11/7/2006 13:10	0.1	13.63	8.31	302	10.19
OOL-1	11/7/2006 13:10	0.5	13.56	8.3	303	10.14
OOL-1	11/7/2006 13:10	1	13.24	8.3	302	10.13
OOL-1	11/7/2006 13:10	2	13.04	8.28	302	10.06
OOL-1	11/7/2006 13:10	3	13.02	8.27	302	10.02
OOL-1	11/7/2006 13:10	4	13.02	8.27	302	10.01
OOL-1	11/7/2006 13:10	5	13.01	8.27	302	10
OOL-1	11/7/2006 13:10	6	13.01	8.27	302	9.99
OOL-1	11/7/2006 13:10	7	13.01	8.27	302	9.98
OOL-1	11/7/2006 13:10	8	13	8.26	303	9.97
OOL-1	11/7/2006 13:10	9	13	8.26	303	9.97
OOL-1	11/7/2006 13:10	10	13	8.27	302	9.96
OOL-1	11/7/2006 13:10	11	12.99	8.26	303	9.96
OOL-1	11/7/2006 13:10	12	12.99	8.27	303	9.96
OOL-1	11/7/2006 13:10	13	12.99	8.26	303	9.95
OOL-1	11/7/2006 13:10	14	12.99	8.27	303	9.95
OOL-1	11/7/2006 13:10	15	12.98	8.27	303	9.95
OOL-1	11/7/2006 13:10	16	12.98	8.27	303	9.95
OOL-1	11/7/2006 13:10	17	12.98	8.27	303	9.94
OOL-1	11/7/2006 13:10	18	12.98	8.26	303	9.87
OOL-1	11/7/2006 13:10	19	12.96	8.26	303	9.61
OOL-1	12/12/2006 11:20	0.1	6.79	7.98	306	11.75
OOL-1	12/12/2006 11:20	0.5	6.76	7.99	306	11.74

OOL-1	12/12/2006 11:20	1	6.76	8.01	306	11.72
OOL-1	12/12/2006 11:20	2	6.66	8.01	306	11.7
OOL-1	12/12/2006 11:20	3	6.65	8	306	11.7
OOL-1	12/12/2006 11:20	4	6.65	8	306	11.71
OOL-1	12/12/2006 11:20	5	6.65	7.99	306	11.7
OOL-1	12/12/2006 11:20	6	6.65	7.99	306	11.69
OOL-1	12/12/2006 11:20	7	6.65	7.99	306	11.7
OOL-1	12/12/2006 11:20	8	6.65	7.97	306	11.69
OOL-1	12/12/2006 11:20	9	6.64	7.96	306	11.69
OOL-1	12/12/2006 11:20	10	6.63	7.96	306	11.7
OOL-1	12/12/2006 11:20	11	6.62	7.95	306	11.69
OOL-1	12/12/2006 11:20	12	6.61	7.95	306	11.69
OOL-1	12/12/2006 11:20	13	6.61	7.93	306	11.68
OOL-1	12/12/2006 11:20	14	6.61	7.93	306	11.68
OOL-1	12/12/2006 11:20	15	6.61	7.91	306	11.67
OOL-1	12/12/2006 11:20	16	6.6	7.88	306	11.63
OOL-1	12/12/2006 11:20	17	6.6	7.87	306	11.62
OOL-1	12/12/2006 11:20	18	6.6	7.84	306	11.54
OOL-1	12/12/2006 11:20	19	6.6	7.8	306	11.24
OOL-1	2/27/2007 12:45	0.1	5.66	7.99	322	13.15
OOL-1	2/27/2007 12:45	0.5	5.63	7.98	322	13.18
OOL-1	2/27/2007 12:45	1	5.49	7.95	323	13.16
OOL-1	2/27/2007 12:45	2	5.33	7.95	323	13.17
OOL-1	2/27/2007 12:45	3	5.15	7.96	322	13.24
OOL-1	2/27/2007 12:45	4	5.1	7.93	322	13.2
OOL-1	2/27/2007 12:45	5	5.1	7.92	322	13.25
OOL-1	2/27/2007 12:45	6	5.1	7.92	322	13.24
OOL-1	2/27/2007 12:45	7	5.1	7.92	322	13.23
OOL-1	2/27/2007 12:45	8	5.09	7.91	322	13.29
OOL-1	2/27/2007 12:45	9	5.08	7.91	322	13.23
OOL-1	2/27/2007 12:45	10	5.09	7.92	322	13.19
OOL-1	2/27/2007 12:45	11	5.1	7.93	322	13.26
OOL-1	2/27/2007 12:45	12	5.09	7.94	322	13.27
OOL-1	2/27/2007 12:45	13	5.09	7.95	322	13.26
OOL-1	2/27/2007 12:45	14	5.09	7.96	322	13.23
OOL-1	2/27/2007 12:45	15	5.09	7.96	322	13.32
OOL-1	2/27/2007 12:45	16	5.06	7.96	322	13.15

OOL-1	2/27/2007 12:45	17	5.05	7.96	322	13.25
OOL-1	2/27/2007 12:45	18	5.05	7.97	322	13.15
OOL-1	2/27/2007 12:45	19	5.04	7.98	322	13.02
OOL-1	2/27/2007 12:45	20	5.05	8.01	322	11.83
OOL-1	3/13/2007 11:10	0.1	10.76	8.31	327	11.7
OOL-1	3/13/2007 11:10	0.5	10.65	8.3	327	11.68
OOL-1	3/13/2007 11:10	1	10.41	8.29	327	11.65
OOL-1	3/13/2007 11:10	2	9.74	8.26	327	11.69
OOL-1	3/13/2007 11:10	3	9.59	8.25	327	11.71
OOL-1	3/13/2007 11:10	4	9.51	8.25	326	11.7
OOL-1	3/13/2007 11:10	5	9.3	8.24	326	11.73
OOL-1	3/13/2007 11:10	6	9.17	8.24	325	11.72
OOL-1	3/13/2007 11:10	7	8.8	8.24	325	11.74
OOL-1	3/13/2007 11:10	8	8.45	8.21	325	11.73
OOL-1	3/13/2007 11:10	9	8.05	8.19	325	11.68
OOL-1	3/13/2007 11:10	10	7.86	8.17	325	11.54
OOL-1	3/13/2007 11:10	11	7.79	8.14	325	11.44
OOL-1	3/13/2007 11:10	12	7.73	8.12	326	11.4
OOL-1	3/13/2007 11:10	13	7.65	8.1	326	11.4
OOL-1	3/13/2007 11:10	14	7.6	8.1	326	11.4
OOL-1	3/13/2007 11:10	15	7.57	8.1	325	11.35
OOL-1	3/13/2007 11:10	16	7.45	8.08	326	11.25
OOL-1	3/13/2007 11:10	17	7.37	8.09	326	11.16
OOL-1	3/13/2007 11:10	18	7.27	8.08	326	10.91
OOL-1	3/13/2007 11:10	19	7.09	7.94	327	10.16
OOL-1	3/13/2007 11:10	20	7.08	7.87	328	10.23
OOL-1	4/10/2007 11:10	0.1	13.63	8.09	348	9.33
OOL-1	4/10/2007 11:10	0.5	13.64	8.09	347	9.33
OOL-1	4/10/2007 11:10	1	13.64	8.09	348	9.33
OOL-1	4/10/2007 11:10	2	13.63	8.09	348	9.3
OOL-1	4/10/2007 11:10	3	13.62	8.08	347	9.28
OOL-1	4/10/2007 11:10	4	13.62	8.07	347	9.27
OOL-1	4/10/2007 11:10	5	13.61	8.06	348	9.26
OOL-1	4/10/2007 11:10	6	13.61	8.07	348	9.26
OOL-1	4/10/2007 11:10	7	13.61	8.06	347	9.26
OOL-1	4/10/2007 11:10	8	13.61	8.04	348	9.25
OOL-1	4/10/2007 11:10	9	13.61	8.03	347	9.24

OOL-1	4/10/2007 11:10	10	13.61	8.02	348	9.2
OOL-1	4/10/2007 11:10	11	13.59	8.01	348	9.19
OOL-1	4/10/2007 11:10	12	13.57	7.99	348	9.18
OOL-1	4/10/2007 11:10	13	13.55	7.96	348	9.17
OOL-1	4/10/2007 11:10	14	13.53	7.92	348	9.17
OOL-1	4/10/2007 11:10	15	13.52	7.92	348	9.17
OOL-1	4/10/2007 11:10	16	13.52	7.91	348	9.16
OOL-1	4/10/2007 11:10	17	13.51	7.92	348	9.14
OOL-1	4/10/2007 11:10	18	13.51	7.92	348	9.12
OOL-1	4/10/2007 11:10	19	13.49	7.92	348	9.08
OOL-1	4/10/2007 11:10	20	13.42	7.92	349	9.07
OOL-1	4/10/2007 11:10	21	13.34	7.92	348	9.04
OOL-1	5/16/2007 11:05	0.1	21.06	7.64	293	6.77
OOL-1	5/16/2007 11:05	0.5	21.09	7.64	293	6.75
OOL-1	5/16/2007 11:05	1	21.05	7.62	293	6.74
OOL-1	5/16/2007 11:05	2	21.02	7.61	293	6.7
OOL-1	5/16/2007 11:05	3	20.93	7.57	293	6.7
OOL-1	5/16/2007 11:05	4	20.93	7.57	293	6.7
OOL-1	5/16/2007 11:05	5	20.93	7.57	293	6.7
OOL-1	5/16/2007 11:05	6	20.93	7.56	293	6.69
OOL-1	5/16/2007 11:05	7	20.91	7.56	293	6.69
OOL-1	5/16/2007 11:05	8	20.91	7.56	292	6.69
OOL-1	5/16/2007 11:05	9	20.92	7.56	293	6.69
OOL-1	5/16/2007 11:05	10	20.94	7.55	293	6.69
OOL-1	5/16/2007 11:05	11	20.94	7.54	293	6.67
OOL-1	5/16/2007 11:05	12	20.94	7.53	293	6.65
OOL-1	5/16/2007 11:05	13	20.96	7.5	293	6.54
OOL-1	5/16/2007 11:05	14	20.51	7.43	296	6.27
OOL-1	5/16/2007 11:05	15	19.74	7.42	306	6.37
OOL-1	6/12/2007 11:30	0.1	25.33	7.88	257	7.43
OOL-1	6/12/2007 11:30	0.5	24.77	7.84	257	7.28
OOL-1	6/12/2007 11:30	1	24.58	7.82	257	7.17
OOL-1	6/12/2007 11:30	2	24.41	7.76	257	7.05
OOL-1	6/12/2007 11:30	3	24.39	7.77	257	7.04
OOL-1	6/12/2007 11:30	4	24.37	7.76	257	7.04
OOL-1	6/12/2007 11:30	5	24.35	7.76	257	7.03
OOL-1	6/12/2007 11:30	6	24.3	7.76	257	7.04

OOL-1	6/12/2007 11:30	7	24.32	7.76	256	7.04
OOL-1	6/12/2007 11:30	8	24.32	7.76	257	7.02
OOL-1	6/12/2007 11:30	9	24.28	7.75	256	6.99
OOL-1	6/12/2007 11:30	10	24.27	7.73	256	6.96
OOL-1	6/12/2007 11:30	11	24.08	7.71	256	6.87
OOL-1	6/12/2007 11:30	12	24.11	7.69	256	6.82
OOL-1	6/12/2007 11:30	13	23.91	7.64	256	6.67
OOL-1	6/12/2007 11:30	14	23.76	7.61	256	6.5
OOL-1	6/12/2007 11:30	15	23.67	7.6	256	6.41
OOL-1	6/12/2007 11:30	16	23.71	7.6	256	6.44
OOL-1	6/12/2007 11:30	17	23.77	7.59	256	6.46
OOL-1	6/12/2007 11:30	18	23.72	7.57	256	6.38
OOL-1	6/12/2007 11:30	19	23.71	7.57	256	6.41
OOL-1	6/12/2007 11:30	20	23.61	7.47	257	5.75
OOL-1	6/12/2007 11:30	21	23.31	7.42	257	5.6
OOL-1	6/12/2007 11:30	22	23.25	7.41	257	5.58
OOL-1	7/10/2007 11:25	0.1	25.27	7.27	186	3.92
OOL-1	7/10/2007 11:25	0.5	25.26	7.27	186	3.87
OOL-1	7/10/2007 11:25	1	25.22	7.25	185	3.78
OOL-1	7/10/2007 11:25	2	25.13	7.21	184	3.6
OOL-1	7/10/2007 11:25	3	25.06	7.18	183	3.32
OOL-1	7/10/2007 11:25	4	25.03	7.17	182	3.15
OOL-1	7/10/2007 11:25	5	24.99	7.15	180	2.93
OOL-1	7/10/2007 11:25	6	24.97	7.16	178	2.96
OOL-1	7/10/2007 11:25	7	24.95	7.16	180	3.08
OOL-1	7/10/2007 11:25	8	24.94	7.16	181	3.03
OOL-1	7/10/2007 11:25	9	24.94	7.18	181	2.85
OOL-1	7/10/2007 11:25	10	24.89	7.13	177	2.52
OOL-1	7/10/2007 11:25	11	24.85	7.12	185	2.53
OOL-1	7/10/2007 11:25	12	24.83	7.11	182	2.56
OOL-1	7/10/2007 11:25	13	24.77	7.12	167	2.64
OOL-1	7/10/2007 11:25	14	24.74	7.15	161	2.65
OOL-1	7/10/2007 11:25	15	24.72	7.2	155	2.59
OOL-1	7/10/2007 11:25	16	24.72	7.21	158	2.53
OOL-1	7/10/2007 11:25	17	24.71	7.22	161	2.37
OOL-1	7/10/2007 11:25	18	24.69	7.2	168	2.23
OOL-1	7/10/2007 11:25	19	24.63	7.17	165	1.51

OOL-1	7/10/2007 11:25	20	23.85	7.09	266	0.25
OOL-1	7/10/2007 11:25	21	23.63	7.09	278	0.22
OOL-1	7/10/2007 11:25	22	23.54	7.14	281	0.22
OOL-1	7/10/2007 11:25	23	23.47	7.14	289	0.22
OOL-1	7/10/2007 11:25	24	23.42	7.15	288	0.22
OOL-1	7/10/2007 11:25	25	23.39	7.16	289	0.23
OOL-1	7/10/2007 11:25	26	23.34	7.18	293	0.23
OOL-1	7/10/2007 11:25	27	23.33	7.18	294	0.23
OOL-1	7/10/2007 11:25	28	23.18	7.19	314	0.25
OOL-1	8/14/2007 11:35	0.1	32.66	8.63	202	9.08
OOL-1	8/14/2007 11:35	0.5	32.41	8.61	202	9.11
OOL-1	8/14/2007 11:35	1	32.07	8.59	201	9.26
OOL-1	8/14/2007 11:35	2	31.36	8.34	201	8.6
OOL-1	8/14/2007 11:35	3	30.14	7.78	202	6.7
OOL-1	8/14/2007 11:35	4	29.67	7.6	206	5.67
OOL-1	8/14/2007 11:35	5	29.55	7.51	208	5.14
OOL-1	8/14/2007 11:35	6	29.36	7.45	207	4.68
OOL-1	8/14/2007 11:35	7	29.21	7.43	207	4.43
OOL-1	8/14/2007 11:35	8	29.12	7.41	207	4.49
OOL-1	8/14/2007 11:35	9	29.02	7.41	206	4.62
OOL-1	8/14/2007 11:35	10	28.97	7.37	205	4.41
OOL-1	8/14/2007 11:35	11	28.78	7.34	205	4.13
OOL-1	8/14/2007 11:35	12	28.76	7.33	205	4.04
OOL-1	8/14/2007 11:35	13	28.71	7.29	206	3.78
OOL-1	8/14/2007 11:35	14	28.37	7.19	208	2.42
OOL-1	8/14/2007 11:35	15	28.34	7.18	208	2.27
OOL-1	8/14/2007 11:35	16	28.19	7.13	208	1.74
OOL-1	8/14/2007 11:35	17	27.94	7.13	209	1.35
OOL-1	8/14/2007 11:35	18	27.86	7.13	209	1.18
OOL-1	8/14/2007 11:35	19	27.75	7.11	210	0.96
OOL-1	8/14/2007 11:35	20	27.48	7.1	212	0.51
OOL-1	8/14/2007 11:35	21	27.09	7.1	215	0.19
OOL-1	8/14/2007 11:35	22	26.39	7.1	225	0.19
OOL-1	9/11/2007 8:50	0.1	26.8	7.83	224	6.2
OOL-1	9/11/2007 8:50	0.5	26.83	7.83	224	6.19
OOL-1	9/11/2007 8:50	1	26.83	7.83	224	6.19
OOL-1	9/11/2007 8:50	2	26.83	7.83	224	6.2

OOL-1	9/11/2007 8:50	3	26.83	7.83	224	6.19
OOL-1	9/11/2007 8:50	4	26.83	7.84	224	6.19
OOL-1	9/11/2007 8:50	5	26.83	7.83	224	6.19
OOL-1	9/11/2007 8:50	6	26.82	7.84	224	6.2
OOL-1	9/11/2007 8:50	7	26.82	7.84	224	6.19
OOL-1	9/11/2007 8:50	8	26.83	7.83	224	6.19
OOL-1	9/11/2007 8:50	9	26.83	7.84	224	6.18
OOL-1	9/11/2007 8:50	10	26.82	7.84	224	6.2
OOL-1	9/11/2007 8:50	11	26.82	7.84	224	6.23
OOL-1	9/11/2007 8:50	12	26.81	7.84	224	6.23
OOL-1	9/11/2007 8:50	13	26.81	7.85	224	6.26
OOL-1	9/11/2007 8:50	14	26.81	7.85	224	6.24
OOL-1	9/11/2007 8:50	15	26.81	7.85	224	6.26
OOL-1	9/11/2007 8:50	16	26.79	7.85	224	6.29
OOL-1	9/11/2007 8:50	17	26.79	7.86	224	6.32
OOL-1	9/11/2007 8:50	18	26.8	7.88	224	6.17
OOL-1	9/11/2007 8:50	19	26.78	7.88	224	6.18
OOL-1	9/11/2007 8:50	20	26.77	7.89	224	6.11
OOL-1	10/18/2007 10:45	0.1	21.5	8.09	233	7.8
OOL-1	10/18/2007 10:45	0.5	21.49	8.09	233	7.77
OOL-1	10/18/2007 10:45	1	21.48	8.08	233	7.73
OOL-1	10/18/2007 10:45	2	21.45	8.08	233	7.71
OOL-1	10/18/2007 10:45	3	21.44	8.08	233	7.7
OOL-1	10/18/2007 10:45	4	21.44	8.08	233	7.7
OOL-1	10/18/2007 10:45	5	21.43	8.08	233	7.7
OOL-1	10/18/2007 10:45	6	21.43	8.08	233	7.72
OOL-1	10/18/2007 10:45	7	21.43	8.08	233	7.71
OOL-1	10/18/2007 10:45	8	21.43	8.08	233	7.71
OOL-1	10/18/2007 10:45	9	21.43	8.08	233	7.72
OOL-1	10/18/2007 10:45	10	21.43	8.08	233	7.71
OOL-1	10/18/2007 10:45	11	21.42	8.07	233	7.69
OOL-1	10/18/2007 10:45	12	21.42	8.08	233	7.67
OOL-1	10/18/2007 10:45	13	21.42	8.08	233	7.66
OOL-1	10/18/2007 10:45	14	21.41	8.08	233	7.67
OOL-1	10/18/2007 10:45	15	21.41	8.08	233	7.67
OOL-1	10/18/2007 10:45	16	21.41	8.08	233	7.66
OOL-1	10/18/2007 10:45	17	21.41	8.09	233	7.67

OOL-1	10/18/2007 10:45	18	21.4	8.09	233	7.65
OOL-1	10/18/2007 10:45	19	21.39	8.09	233	7.63
OOL-1	10/18/2007 10:45	20	21.35	8.09	233	7.6
OOL-1	11/13/2007 11:50	0.1	15.31	8.44	247	10.9
OOL-1	11/13/2007 11:50	0.5	15.24	8.44	247	10.83
OOL-1	11/13/2007 11:50	1	15.18	8.44	247	10.8
OOL-1	11/13/2007 11:50	2	15.07	8.43	247	10.71
OOL-1	11/13/2007 11:50	3	15.06	8.43	247	10.68
OOL-1	11/13/2007 11:50	4	15.05	8.42	247	10.64
OOL-1	11/13/2007 11:50	5	15.03	8.41	247	10.57
OOL-1	11/13/2007 11:50	6	15.02	8.41	247	10.56
OOL-1	11/13/2007 11:50	7	15.02	8.41	247	10.53
OOL-1	11/13/2007 11:50	8	15.02	8.4	247	10.52
OOL-1	11/13/2007 11:50	9	15.01	8.39	247	10.49
OOL-1	11/13/2007 11:50	10	15.01	8.39	247	10.43
OOL-1	11/13/2007 11:50	11	15	8.38	248	10.39
OOL-1	11/13/2007 11:50	12	14.94	8.36	247	10.33
OOL-1	11/13/2007 11:50	13	14.84	8.35	248	10.18
OOL-1	11/13/2007 11:50	14	14.76	8.34	248	10.16
OOL-1	11/13/2007 11:50	15	14.73	8.34	248	10.17
OOL-1	11/13/2007 11:50	16	14.72	8.32	248	10.14
OOL-1	11/13/2007 11:50	17	14.68	8.32	248	10.05
OOL-1	11/13/2007 11:50	18	14.67	8.31	248	10.02
OOL-1	11/13/2007 11:50	19	14.64	8.3	248	9.93

Table 21 USACE OO-2 Vertical Profile Water Quality Monitoring Results

Station	Sample Date/Time	Depth (m)	Temperature (°C)	pH	Specific Conductivity (uS/cm)	DO (mg/L)
OOL-2	10-01-2006 11:30:00	0.1	6.46	8.23	237	12.94
OOL-2	10-01-2006 11:30:00	0.5	6.47	8.23	237	12.93
OOL-2	10-01-2006 11:30:00	1	6.48	8.23	237	12.92
OOL-2	10-01-2006 11:30:00	2	6.49	8.23	237	12.92
OOL-2	10-01-2006 11:30:00	3	6.49	8.22	237	12.92
OOL-2	10-01-2006 11:30:00	4	6.49	8.22	237	12.93

OOL-2	10-01-2006 11:30:00	5	6.5	8.21	237	12.94
OOL-2	10-01-2006 11:30:00	6	6.49	8.2	237	12.98
OOL-2	10-01-2006 11:30:00	7	6.49	8.18	237	13.02
OOL-2	10-01-2006 11:30:00	8	6.48	8.16	237	13.12
OOL-2	14-02-2006 11:00:00	0.1	5.59	8.04	241	13.04
OOL-2	14-02-2006 11:00:00	0.5	5.59	8.04	241	13.03
OOL-2	14-02-2006 11:00:00	1	5.56	8.02	241	13.02
OOL-2	14-02-2006 11:00:00	2	5.58	8.03	241	13.02
OOL-2	14-02-2006 11:00:00	3	5.55	8.04	241	13.02
OOL-2	14-02-2006 11:00:00	4	5.55	8.04	241	13.03
OOL-2	14-02-2006 11:00:00	5	5.55	8.03	241	13.01
OOL-2	14-02-2006 11:00:00	6	5.55	8.03	241	13.01
OOL-2	14-02-2006 11:00:00	7	5.55	8.01	241	13.01
OOL-2	14-02-2006 11:00:00	8	5.55	8	241	13
OOL-2	14-02-2006 11:00:00	9	5.54	8.01	241	12.99
OOL-2	14-02-2006 11:00:00	10	5.54	7.99	241	13
OOL-2	14-02-2006 11:00:00	11	5.54	8.01	241	13
OOL-2	14-02-2006 11:00:00	12	5.55	8.01	241	13.01
OOL-2	14-02-2006 11:00:00	13	5.55	8.02	241	13.04
OOL-2	14-02-2006 11:00:00	14	5.55	8.02	241	13.08
OOL-2	09-05-2006 10:50:00	0.1	19.15	8.08	265	8.76
OOL-2	09-05-2006 10:50:00	0.5	19.1	8.1	265	8.77
OOL-2	09-05-2006 10:50:00	1	19.08	8.1	265	8.78
OOL-2	09-05-2006 10:50:00	2	18.97	8.12	263	8.81
OOL-2	09-05-2006 10:50:00	3	18.96	8.12	262	8.81
OOL-2	09-05-2006 10:50:00	4	18.94	8.11	261	8.74
OOL-2	09-05-2006 10:50:00	5	18.85	8.06	262	8.57
OOL-2	09-05-2006 10:50:00	6	18.74	8.05	264	8.53
OOL-2	09-05-2006 10:50:00	7	18.64	8.02	266	8.41
OOL-2	09-05-2006 10:50:00	8	18.52	8	269	8.37
OOL-2	09-05-2006 10:50:00	9	18.48	7.99	270	8.34
OOL-2	09-05-2006 10:50:00	10	18.46	7.98	270	8.31
OOL-2	09-05-2006 10:50:00	11	18.41	7.95	270	8.26
OOL-2	15-06-2006 10:40:00	0.1	26.32	8.34	278	7.89
OOL-2	15-06-2006 10:40:00	0.5	26.32	8.34	278	7.89
OOL-2	15-06-2006 10:40:00	1	26.33	8.33	278	7.89
OOL-2	15-06-2006 10:40:00	2	26.31	8.33	278	7.83

OOL-2	15-06-2006 10:40:00	3	26.27	8.28	278	7.74
OOL-2	15-06-2006 10:40:00	4	26.1	8.06	280	7.11
OOL-2	15-06-2006 10:40:00	5	25.86	7.89	282	6.31
OOL-2	15-06-2006 10:40:00	6	25.36	7.51	286	4.33
OOL-2	15-06-2006 10:40:00	7	25.07	7.42	286	3.21
OOL-2	15-06-2006 10:40:00	8	24.76	7.38	287	2.38
OOL-2	15-06-2006 10:40:00	9	23.84	7.37	287	1.23
OOL-2	15-06-2006 10:40:00	10	23.55	7.43	287	0.96
OOL-2	11-07-2006 10:50:00	0.1	26.58	7.49	292	5.89
OOL-2	11-07-2006 10:50:00	0.5	26.55	7.49	292	5.88
OOL-2	11-07-2006 10:50:00	1	26.49	7.48	292	5.87
OOL-2	11-07-2006 10:50:00	2	26.41	7.47	292	5.87
OOL-2	11-07-2006 10:50:00	3	26.36	7.48	292	5.87
OOL-2	11-07-2006 10:50:00	4	26.26	7.47	291	5.89
OOL-2	11-07-2006 10:50:00	5	26.22	7.45	291	5.85
OOL-2	11-07-2006 10:50:00	6	26.18	7.43	291	5.71
OOL-2	11-07-2006 10:50:00	7	26.16	7.42	291	5.62
OOL-2	11-07-2006 10:50:00	8	26.14	7.38	291	5.38
OOL-2	11-07-2006 10:50:00	9	26.12	7.39	291	4.98
OOL-2	11-07-2006 10:50:00	10	26.1	7.36	291	4.79
OOL-2	11-07-2006 10:50:00	11	26.1	7.38	292	4.76
OOL-2	11-07-2006 10:50:00	12	26.08	7.4	291	4.54
OOL-2	11-07-2006 10:50:00	13	26.04	7.46	292	0.56
OOL-2	15-08-2006 10:35:00	0.1	29.67	8.05	304	6.67
OOL-2	15-08-2006 10:35:00	0.5	29.65	8.05	304	6.65
OOL-2	15-08-2006 10:35:00	1	29.53	8.03	303	6.54
OOL-2	15-08-2006 10:35:00	2	29.44	7.99	304	6.38
OOL-2	15-08-2006 10:35:00	3	29.43	7.98	303	6.34
OOL-2	15-08-2006 10:35:00	4	29.42	7.95	303	6.24
OOL-2	15-08-2006 10:35:00	5	29.42	7.93	303	6.12
OOL-2	15-08-2006 10:35:00	6	29.38	7.83	302	5.67
OOL-2	15-08-2006 10:35:00	7	29.25	7.75	301	4.56
OOL-2	15-08-2006 10:35:00	8	28.74	7.73	302	2.42
OOL-2	15-08-2006 10:35:00	9	28.71	7.78	303	2.22
OOL-2	12-09-2006 09:20:00	0.1	25.69	8.29	300	7.49
OOL-2	12-09-2006 09:20:00	0.5	25.71	8.31	300	7.49
OOL-2	12-09-2006 09:20:00	1	25.72	8.27	300	7.5

OOL-2	12-09-2006 09:20:00	2	25.72	8.28	300	7.47
OOL-2	12-09-2006 09:20:00	3	25.72	8.25	300	7.41
OOL-2	12-09-2006 09:20:00	4	25.72	8.26	300	7.33
OOL-2	12-09-2006 09:20:00	5	25.69	8.18	301	6.99
OOL-2	12-09-2006 09:20:00	6	25.66	8.17	303	7.05
OOL-2	12-09-2006 09:20:00	7	25.66	8.12	302	6.22
OOL-2	12-09-2006 09:20:00	8	25.4	8.07	311	4.99
OOL-2	11-10-2006 12:55:00	0.1	20.71	8.15	305	7.86
OOL-2	11-10-2006 12:55:00	0.5	20.76	8.17	305	7.84
OOL-2	11-10-2006 12:55:00	1	20.73	8.16	306	7.78
OOL-2	11-10-2006 12:55:00	2	20.53	8.16	305	7.71
OOL-2	11-10-2006 12:55:00	3	20.52	8.16	305	7.72
OOL-2	11-10-2006 12:55:00	4	20.5	8.17	305	7.73
OOL-2	11-10-2006 12:55:00	5	20.49	8.17	305	7.75
OOL-2	11-10-2006 12:55:00	6	20.48	8.19	305	7.76
OOL-2	11-10-2006 12:55:00	7	20.46	8.2	305	7.77
OOL-2	11-10-2006 12:55:00	8	20.42	8.21	305	7.78
OOL-2	11-10-2006 12:55:00	9	20.39	8.2	305	7.76
OOL-2	07-11-2006 10:35:00	0.1	12.4	8.29	306	10.36
OOL-2	07-11-2006 10:35:00	0.5	12.4	8.28	306	10.34
OOL-2	07-11-2006 10:35:00	1	12.36	8.27	306	10.27
OOL-2	07-11-2006 10:35:00	2	12.3	8.26	307	10.21
OOL-2	07-11-2006 10:35:00	3	12.27	8.26	307	10.19
OOL-2	07-11-2006 10:35:00	4	12.24	8.25	307	10.15
OOL-2	07-11-2006 10:35:00	5	12.22	8.25	307	10.11
OOL-2	07-11-2006 10:35:00	6	12.21	8.24	307	10.07
OOL-2	07-11-2006 10:35:00	7	12.19	8.22	308	9.91
OOL-2	07-11-2006 10:35:00	8	12.13	8.21	311	9.96
OOL-2	07-11-2006 10:35:00	9	12.09	8.22	311	9.98
OOL-2	07-11-2006 10:35:00	10	12.08	8.22	311	9.93
OOL-2	07-11-2006 10:35:00	11	12.09	8.22	311	9.74
OOL-2	12-12-2006 11:00:00	0.1	6.2	7.73	310	12.25
OOL-2	12-12-2006 11:00:00	0.5	6.14	7.8	309	12.27
OOL-2	12-12-2006 11:00:00	1	6.14	7.85	309	12.25
OOL-2	12-12-2006 11:00:00	2	6.11	7.9	309	12.24
OOL-2	12-12-2006 11:00:00	3	6.05	7.93	310	12.24
OOL-2	12-12-2006 11:00:00	4	6.01	7.92	310	12.24

OOL-2	12-12-2006 11:00:00	5	6	7.91	310	12.24
OOL-2	12-12-2006 11:00:00	6	6	7.9	310	12.23
OOL-2	12-12-2006 11:00:00	7	6	7.9	310	12.23
OOL-2	12-12-2006 11:00:00	8	5.99	7.88	310	12.23
OOL-2	12-12-2006 11:00:00	9	5.99	7.88	310	12.22
OOL-2	12-12-2006 11:00:00	10	5.99	7.87	310	12.22
OOL-2	12-12-2006 11:00:00	11	5.99	7.85	310	12.22
OOL-2	12-12-2006 11:00:00	12	5.99	7.82	310	12.21
OOL-2	12-12-2006 11:00:00	14	5.98	7.8	310	12.19
OOL-2	12-12-2006 11:00:00	15	5.97	7.79	311	12.19
OOL-2	12-12-2006 11:00:00	19	5.99	7.81	310	12.18
OOL-2	27-02-2007 12:15:00	0.1	6.06	7.96	333	12.97
OOL-2	27-02-2007 12:15:00	0.5	6.04	7.98	332	13.02
OOL-2	27-02-2007 12:15:00	1	6.03	7.97	333	12.96
OOL-2	27-02-2007 12:15:00	2	6	7.97	333	12.93
OOL-2	27-02-2007 12:15:00	3	5.97	7.97	332	13.01
OOL-2	27-02-2007 12:15:00	4	5.95	7.98	332	12.96
OOL-2	27-02-2007 12:15:00	5	5.89	7.97	333	12.99
OOL-2	27-02-2007 12:15:00	6	5.87	7.97	333	12.97
OOL-2	27-02-2007 12:15:00	7	5.84	7.97	333	13
OOL-2	27-02-2007 12:15:00	8	5.82	7.98	332	12.93
OOL-2	27-02-2007 12:15:00	9	5.82	7.98	332	12.99
OOL-2	27-02-2007 12:15:00	10	5.78	7.98	332	13.01
OOL-2	27-02-2007 12:15:00	11	5.78	7.98	332	12.98
OOL-2	27-02-2007 12:15:00	12	5.76	7.99	332	12.94
OOL-2	27-02-2007 12:15:00	13	5.72	7.99	332	13
OOL-2	27-02-2007 12:15:00	14	5.71	7.99	333	12.96
OOL-2	27-02-2007 12:15:00	15	5.71	7.99	333	13.02
OOL-2	13-03-2007 10:35:00	0.1	13.14	8.34	353	11.59
OOL-2	13-03-2007 10:35:00	0.5	13.05	8.33	353	11.51
OOL-2	13-03-2007 10:35:00	1	11.77	8.28	353	11.52
OOL-2	13-03-2007 10:35:00	2	9.79	8.28	341	11.78
OOL-2	13-03-2007 10:35:00	3	9.5	8.25	339	11.6
OOL-2	13-03-2007 10:35:00	4	9.44	8.2	342	11.38
OOL-2	13-03-2007 10:35:00	5	9.27	8.1	344	11.3
OOL-2	13-03-2007 10:35:00	6	8.87	8.14	330	11.38
OOL-2	13-03-2007 10:35:00	7	8.77	8.12	330	11.25

OOL-2	13-03-2007 10:35:00	8	8.63	8.07	330	11.24
OOL-2	13-03-2007 10:35:00	9	8.31	8.08	328	11.31
OOL-2	13-03-2007 10:35:00	10	8.17	8.08	328	11.34
OOL-2	13-03-2007 10:35:00	11	8.1	8.08	328	11.39
OOL-2	10-04-2007 09:05:00	0.1	13.55	7.93	352	9.14
OOL-2	10-04-2007 09:05:00	0.5	13.55	7.93	352	9.13
OOL-2	10-04-2007 09:05:00	1	13.55	7.93	352	9.14
OOL-2	10-04-2007 09:05:00	2	13.55	7.93	352	9.14
OOL-2	10-04-2007 09:05:00	3	13.55	7.92	352	9.12
OOL-2	10-04-2007 09:05:00	4	13.55	7.92	352	9.13
OOL-2	10-04-2007 09:05:00	5	13.55	7.91	352	9.13
OOL-2	10-04-2007 09:05:00	6	13.55	7.91	352	9.12
OOL-2	10-04-2007 09:05:00	7	13.55	7.91	352	9.11
OOL-2	10-04-2007 09:05:00	8	13.54	7.91	352	9.11
OOL-2	10-04-2007 09:05:00	9	13.55	7.91	352	9.1
OOL-2	10-04-2007 09:05:00	10	13.55	7.9	352	9.1
OOL-2	16-05-2007 10:40:00	0.1	21.68	7.62	270	6.5
OOL-2	16-05-2007 10:40:00	0.5	21.66	7.61	270	6.47
OOL-2	16-05-2007 10:40:00	1	21.6	7.61	270	6.41
OOL-2	16-05-2007 10:40:00	2	21.51	7.6	271	6.34
OOL-2	16-05-2007 10:40:00	3	21.45	7.59	272	6.26
OOL-2	16-05-2007 10:40:00	4	21.4	7.54	274	6.02
OOL-2	16-05-2007 10:40:00	5	21.04	7.47	277	5.61
OOL-2	16-05-2007 10:40:00	6	20.5	7.42	279	5.29
OOL-2	16-05-2007 10:40:00	7	20.06	7.35	280	5.1
OOL-2	16-05-2007 10:40:00	8	19.36	7.36	295	5.21
OOL-2	16-05-2007 10:40:00	9	18.8	7.34	304	5.27
OOL-2	16-05-2007 10:40:00	10	18.34	7.34	316	5.52
OOL-2	16-05-2007 10:40:00	11	18.32	7.31	317	5.46
OOL-2	16-05-2007 10:40:00	12	18.31	7.32	317	5.46
OOL-2	12-06-2007 11:00:00	0.1	25.41	7.83	264	7.07
OOL-2	12-06-2007 11:00:00	0.5	25.31	7.82	264	7.01
OOL-2	12-06-2007 11:00:00	1	25.02	7.79	265	6.77
OOL-2	12-06-2007 11:00:00	2	24.91	7.75	266	6.64
OOL-2	12-06-2007 11:00:00	3	24.83	7.74	266	6.55
OOL-2	12-06-2007 11:00:00	4	24.82	7.72	266	6.49
OOL-2	12-06-2007 11:00:00	5	24.73	7.68	265	6.33

OOL-2	12-06-2007 11:00:00	6	24.35	7.64	266	6.11
OOL-2	12-06-2007 11:00:00	7	24.25	7.62	266	6.05
OOL-2	12-06-2007 11:00:00	8	24.21	7.6	266	6.02
OOL-2	12-06-2007 11:00:00	9	24.13	7.53	265	5.92
OOL-2	12-06-2007 11:00:00	10	24.09	7.53	264	5.81
OOL-2	12-06-2007 11:00:00	11	23.91	7.44	264	5.4
OOL-2	12-06-2007 11:00:00	12	23.7	7.41	264	5.1
OOL-2	12-06-2007 11:00:00	13	23.63	7.34	263	5.03
OOL-2	12-06-2007 11:00:00	14	23.5	7.3	262	4.9
OOL-2	12-06-2007 11:00:00	15	23.44	7.26	261	4.62
OOL-2	12-06-2007 11:00:00	16	23.35	7.21	262	4.07
OOL-2	12-06-2007 11:00:00	17	23.07	7.14	261	3.37
OOL-2	12-06-2007 11:00:00	18	22.73	7.09	261	2.73
OOL-2	10-07-2007 12:10:00	0.1	26.77	7.51	196	5.64
OOL-2	10-07-2007 12:10:00	0.5	26.77	7.51	197	5.64
OOL-2	10-07-2007 12:10:00	1	26.77	7.5	196	5.59
OOL-2	10-07-2007 12:10:00	2	26.77	7.46	196	5.53
OOL-2	10-07-2007 12:10:00	3	26.72	7.38	193	5.27
OOL-2	10-07-2007 12:10:00	4	26.54	7.24	185	4.49
OOL-2	10-07-2007 12:10:00	5	26.22	7.15	179	3.35
OOL-2	10-07-2007 12:10:00	6	25.99	7.13	162	3.38
OOL-2	10-07-2007 12:10:00	7	25.56	7.08	156	2.79
OOL-2	10-07-2007 12:10:00	8	25.37	7.06	150	2.86
OOL-2	10-07-2007 12:10:00	9	25.13	7.03	146	2.72
OOL-2	10-07-2007 12:10:00	10	24.59	7.05	135	2.51
OOL-2	10-07-2007 12:10:00	11	24.54	7.05	133	2.49
OOL-2	10-07-2007 12:10:00	12	24.52	7.05	131	2.48
OOL-2	10-07-2007 12:10:00	13	24.51	7.03	131	2.46
OOL-2	10-07-2007 12:10:00	14	24.51	7.03	130	2.45
OOL-2	10-07-2007 12:10:00	15	24.5	7.04	131	2.42
OOL-2	10-07-2007 12:10:00	16	24.49	7.04	131	2.4
OOL-2	10-07-2007 12:10:00	17	24.49	7.06	132	2.4
OOL-2	14-08-2007 11:05:00	0.1	31.58	8.68	211	9.43
OOL-2	14-08-2007 11:05:00	0.5	31.21	8.66	211	9.53
OOL-2	14-08-2007 11:05:00	1	30.85	8.57	211	9.06
OOL-2	14-08-2007 11:05:00	2	30.49	8.37	212	8.3
OOL-2	14-08-2007 11:05:00	3	30.38	8.16	212	7.53

OOL-2	14-08-2007 11:05:00	4	30.15	7.79	216	6.12
OOL-2	14-08-2007 11:05:00	5	29.47	7.47	218	4.34
OOL-2	14-08-2007 11:05:00	6	29.17	7.4	218	3.61
OOL-2	14-08-2007 11:05:00	7	29.06	7.36	218	3.37
OOL-2	14-08-2007 11:05:00	8	28.82	7.29	218	2.56
OOL-2	14-08-2007 11:05:00	9	28.67	7.25	216	2.17
OOL-2	14-08-2007 11:05:00	10	28.29	7.21	215	1.39
OOL-2	14-08-2007 11:05:00	11	27.99	7.19	216	0.76
OOL-2	14-08-2007 11:05:00	12	27.76	7.17	219	0.23
OOL-2	14-08-2007 11:05:00	13	27.63	7.16	219	0.13
OOL-2	14-08-2007 11:05:00	14	27.32	7.15	221	0.14
OOL-2	14-08-2007 11:05:00	15	26.65	7.15	224	0.16
OOL-2	14-08-2007 11:05:00	16	26.29	7.18	226	0.19
OOL-2	14-08-2007 11:05:00	17	26.08	7.25	231	0.23
OOL-2	11-09-2007 11:30:00	0.1	26.28	7.92	227	6.66
OOL-2	11-09-2007 11:30:00	0.5	26.29	7.91	227	6.62
OOL-2	11-09-2007 11:30:00	1	26.25	7.91	227	6.59
OOL-2	11-09-2007 11:30:00	2	26.22	7.91	227	6.57
OOL-2	11-09-2007 11:30:00	3	26.17	7.91	227	6.62
OOL-2	11-09-2007 11:30:00	4	25.99	7.94	230	6.79
OOL-2	11-09-2007 11:30:00	5	25.93	7.94	230	6.8
OOL-2	11-09-2007 11:30:00	6	25.93	7.93	230	6.82
OOL-2	11-09-2007 11:30:00	7	25.94	7.94	230	6.81
OOL-2	11-09-2007 11:30:00	8	25.92	7.95	230	6.84
OOL-2	11-09-2007 11:30:00	9	25.86	7.95	230	6.85
OOL-2	11-09-2007 11:30:00	10	25.68	7.95	231	6.89
OOL-2	11-09-2007 11:30:00	11	25.46	7.94	232	6.74
OOL-2	18-10-2007 10:15:00	0.1	20.69	8.27	240	8.45
OOL-2	18-10-2007 10:15:00	0.5	20.69	8.26	240	8.43
OOL-2	18-10-2007 10:15:00	1	20.69	8.26	240	8.42
OOL-2	18-10-2007 10:15:00	2	20.68	8.25	240	8.41
OOL-2	18-10-2007 10:15:00	3	20.69	8.25	240	8.39
OOL-2	18-10-2007 10:15:00	4	20.68	8.25	240	8.36
OOL-2	18-10-2007 10:15:00	5	20.68	8.24	240	8.33
OOL-2	18-10-2007 10:15:00	6	20.67	8.23	240	8.23
OOL-2	18-10-2007 10:15:00	7	20.59	8.22	240	8.2
OOL-2	18-10-2007 10:15:00	8	20.58	8.21	239	8.2

OOL-2	18-10-2007 10:15:00	9	20.57	8.21	239	8.2
OOL-2	18-10-2007 10:15:00	10	20.57	8.22	239	8.2
OOL-2	18-10-2007 10:15:00	11	20.58	8.21	239	8.13
OOL-2	18-10-2007 10:15:00	12	20.58	8.21	239	8
OOL-2	18-10-2007 10:15:00	13	20.58	8.19	239	7.34
OOL-2	13-11-2007 09:50:00	0.1	15.21	8.47	252	11.11
OOL-2	13-11-2007 09:50:00	0.5	15.2	8.47	252	11.09
OOL-2	13-11-2007 09:50:00	1	15.18	8.46	252	11.02
OOL-2	13-11-2007 09:50:00	2	15.13	8.45	253	10.98
OOL-2	13-11-2007 09:50:00	3	15.09	8.41	253	10.81
OOL-2	13-11-2007 09:50:00	4	15.01	8.4	255	10.84
OOL-2	13-11-2007 09:50:00	5	15	8.36	255	10.76
OOL-2	13-11-2007 09:50:00	6	14.99	8.35	255	10.72
OOL-2	13-11-2007 09:50:00	7	14.94	8.33	256	10.58
OOL-2	13-11-2007 09:50:00	8	14.87	8.3	257	10.31
OOL-2	13-11-2007 09:50:00	9	14.68	8.27	260	10.31
OOL-2	13-11-2007 09:50:00	10	14.7	8.25	260	10.25
OOL-2	13-11-2007 09:50:00	11	14.65	8.25	260	10.25
OOL-2	13-11-2007 09:50:00	12	14.67	8.26	260	10.24
OOL-2	13-11-2007 09:50:00	13	14.66	8.27	260	10.19
OOL-2	13-11-2007 09:50:00	14	14.65	8.27	260	10.17
OOL-2	13-11-2007 09:50:00	15	14.65	8.27	260	10.13

Table 22 USACE OO-3 Vertical Profile Water Quality Monitoring Results

Station	Sample Date/Time	Depth (m)	Temperature (°C)	pH	Specific Conductivity (uS/cm)	DO (mg/L)
OOL-3	10-01-2006 09:45:00	0.1	6.35	8.08	240	12.67
OOL-3	10-01-2006 09:45:00	0.5	6.36	8.06	239	12.66
OOL-3	10-01-2006 09:45:00	1	6.36	8.06	239	12.66
OOL-3	10-01-2006 09:45:00	2	6.35	8.06	240	12.61
OOL-3	10-01-2006 09:45:00	3	6.36	8.09	240	12.6
OOL-3	10-01-2006 09:45:00	4	6.36	8.09	239	12.55
OOL-3	10-01-2006 09:45:00	5	6.35	8.1	240	12.53
OOL-3	10-01-2006 09:45:00	6	6.35	8.07	240	12.49

OOL-3	10-01-2006 09:45:00	7	6.35	8.09	240	12.46
OOL-3	10-01-2006 09:45:00	8	6.35	8.09	239	12.42
OOL-3	10-01-2006 09:45:00	9	6.35	8.09	240	12.38
OOL-3	10-01-2006 09:45:00	10	6.36	8.06	240	12.31
OOL-3	10-01-2006 09:45:00	11	6.36	8.08	240	12.13
OOL-3	14-02-2006 10:30:00	0.1	5.33	8.05	254	13.14
OOL-3	14-02-2006 10:30:00	0.5	5.31	8.05	254	13.15
OOL-3	14-02-2006 10:30:00	1	5.31	8.05	254	13.13
OOL-3	14-02-2006 10:30:00	2	5.27	8.04	255	13.13
OOL-3	14-02-2006 10:30:00	3	5.29	8.04	255	13.13
OOL-3	14-02-2006 10:30:00	4	5.28	8.04	255	13.13
OOL-3	14-02-2006 10:30:00	5	5.27	8.03	256	13.13
OOL-3	14-02-2006 10:30:00	6	5.27	8.03	256	13.12
OOL-3	14-02-2006 10:30:00	7	5.24	8.02	257	13.12
OOL-3	14-02-2006 10:30:00	8	5.24	8.02	257	13.12
OOL-3	09-05-2006 10:20:00	0.1	18.42	7.84	287	7.9
OOL-3	09-05-2006 10:20:00	0.5	18.38	7.85	287	7.88
OOL-3	09-05-2006 10:20:00	1	18.35	7.85	287	7.88
OOL-3	09-05-2006 10:20:00	2	18.35	7.84	287	7.88
OOL-3	09-05-2006 10:20:00	3	18.34	7.84	287	7.87
OOL-3	09-05-2006 10:20:00	4	18.35	7.84	287	7.88
OOL-3	09-05-2006 10:20:00	5	18.36	7.84	287	7.87
OOL-3	09-05-2006 10:20:00	6	18.32	7.83	287	7.86
OOL-3	09-05-2006 10:20:00	7	18.31	7.81	288	7.85
OOL-3	15-06-2006 10:15:00	0.1	26.75	8.25	288	7.48
OOL-3	15-06-2006 10:15:00	0.5	26.73	8.26	288	7.44
OOL-3	15-06-2006 10:15:00	1	26.74	8.26	288	7.45
OOL-3	15-06-2006 10:15:00	2	26.73	8.25	288	7.44
OOL-3	15-06-2006 10:15:00	3	26.73	8.23	288	7.45
OOL-3	15-06-2006 10:15:00	4	26.74	8.22	288	7.44
OOL-3	15-06-2006 10:15:00	5	26.72	8.16	289	7.34
OOL-3	15-06-2006 10:15:00	6	26.45	7.89	294	6.37
OOL-3	15-06-2006 10:15:00	7	26.24	7.8	301	5.8
OOL-3	15-06-2006 10:15:00	8	25.69	7.54	308	3.88
OOL-3	15-06-2006 10:15:00	9	25.56	7.54	308	3.56
OOL-3	15-06-2006 10:15:00	10	25.37	7.56	309	3.38
OOL-3	11-07-2006 10:30:00	0.1	26.45	7.76	299	6.93

OOL-3	11-07-2006 10:30:00	0.5	26.45	7.77	300	6.92
OOL-3	11-07-2006 10:30:00	1	26.46	7.78	299	6.92
OOL-3	11-07-2006 10:30:00	2	26.45	7.78	300	6.89
OOL-3	11-07-2006 10:30:00	3	26.44	7.77	301	6.84
OOL-3	11-07-2006 10:30:00	4	26.42	7.77	305	6.75
OOL-3	11-07-2006 10:30:00	5	26.42	7.76	305	6.74
OOL-3	11-07-2006 10:30:00	6	26.41	7.75	306	6.68
OOL-3	11-07-2006 10:30:00	7	26.4	7.77	307	6.67
OOL-3	11-07-2006 10:30:00	8	26.4	7.76	307	6.67
OOL-3	11-07-2006 10:30:00	9	26.38	7.74	308	6.64
OOL-3	15-08-2006 10:10:00	0.1	29.59	8.24	314	6.74
OOL-3	15-08-2006 10:10:00	0.5	29.56	8.25	314	6.74
OOL-3	15-08-2006 10:10:00	1	29.53	8.21	314	6.72
OOL-3	15-08-2006 10:10:00	2	29.48	8.18	314	6.58
OOL-3	15-08-2006 10:10:00	3	29.47	8.18	314	6.55
OOL-3	15-08-2006 10:10:00	4	29.45	8.16	315	6.47
OOL-3	15-08-2006 10:10:00	5	29.43	8.15	316	6.41
OOL-3	15-08-2006 10:10:00	6	29.43	8.14	316	6.38
OOL-3	15-08-2006 10:10:00	7	29.43	8.13	316	6.38
OOL-3	15-08-2006 10:10:00	8	29.43	8.15	316	6.36
OOL-3	15-08-2006 10:10:00	9	29.43	8.14	316	6.19
OOL-3	12-09-2006 09:45:00	0.1	25.02	8.23	315	7.11
OOL-3	12-09-2006 09:45:00	0.5	25.05	8.24	315	7.09
OOL-3	12-09-2006 09:45:00	1	25.04	8.24	315	7.09
OOL-3	12-09-2006 09:45:00	2	25.04	8.23	315	7.1
OOL-3	12-09-2006 09:45:00	3	25.04	8.23	315	7.11
OOL-3	12-09-2006 09:45:00	4	25.03	8.24	315	7.1
OOL-3	12-09-2006 09:45:00	5	25.02	8.24	315	7.1
OOL-3	12-09-2006 09:45:00	6	25.03	8.21	315	7.04
OOL-3	12-09-2006 09:45:00	7	25.03	8.17	315	6.79
OOL-3	12-09-2006 09:45:00	8	25.03	8.16	318	6.46
OOL-3	12-09-2006 09:45:00	9	25.02	8.15	321	6.41
OOL-3	12-09-2006 09:45:00	10	25.01	8.14	322	5.91
OOL-3	11-10-2006 12:20:00	0.1	20.4	8.32	316	8.42
OOL-3	11-10-2006 12:20:00	0.5	20.42	8.31	316	8.41
OOL-3	11-10-2006 12:20:00	1	20.41	8.32	316	8.37
OOL-3	11-10-2006 12:20:00	2	20.36	8.31	316	8.33

OOL-3	11-10-2006 12:20:00	3	20.32	8.3	316	8.22
OOL-3	11-10-2006 12:20:00	4	20.28	8.3	316	8.19
OOL-3	11-10-2006 12:20:00	5	20.27	8.32	316	8.14
OOL-3	11-10-2006 12:20:00	6	20.25	8.32	316	8.1
OOL-3	11-10-2006 12:20:00	7	20.22	8.31	316	8.04
OOL-3	07-11-2006 11:15:00	0.1	11.7	8.29	317	10.63
OOL-3	07-11-2006 11:15:00	0.5	11.7	8.29	317	10.62
OOL-3	07-11-2006 11:15:00	1	11.66	8.29	317	10.6
OOL-3	07-11-2006 11:15:00	2	11.6	8.28	317	10.54
OOL-3	07-11-2006 11:15:00	3	11.54	8.27	317	10.49
OOL-3	07-11-2006 11:15:00	4	11.53	8.27	318	10.46
OOL-3	07-11-2006 11:15:00	5	11.52	8.26	318	10.42
OOL-3	07-11-2006 11:15:00	6	11.44	8.24	320	10.28
OOL-3	07-11-2006 11:15:00	7	11.19	8.21	327	10.22
OOL-3	07-11-2006 11:15:00	8	10.9	8.2	333	10.23
OOL-3	07-11-2006 11:15:00	9	10.74	8.19	335	10.18
OOL-3	07-11-2006 11:15:00	10	10.65	8.18	337	10.16
OOL-3	07-11-2006 11:15:00	11	10.63	8.18	337	10.18
OOL-3	12-12-2006 09:20:00	0.1	5.23	8.12	318	12.59
OOL-3	12-12-2006 09:20:00	0.5	5.2	8.12	318	12.58
OOL-3	12-12-2006 09:20:00	1	5.17	8.12	318	12.58
OOL-3	12-12-2006 09:20:00	2	5.13	8.12	318	12.53
OOL-3	12-12-2006 09:20:00	3	5.12	8.12	318	12.53
OOL-3	12-12-2006 09:20:00	4	5.12	8.11	318	12.51
OOL-3	12-12-2006 09:20:00	5	5.12	8.12	318	12.39
OOL-3	12-12-2006 09:20:00	6	5.13	8.12	318	12.09
OOL-3	12-12-2006 09:20:00	7	5.16	8.11	318	11.5
OOL-3	27-02-2007 11:55:00	0.1	7.43	8.02	351	12.72
OOL-3	27-02-2007 11:55:00	0.5	6.62	8.02	356	12.9
OOL-3	27-02-2007 11:55:00	1	6.41	8.01	355	12.92
OOL-3	27-02-2007 11:55:00	2	6.08	7.98	350	12.92
OOL-3	27-02-2007 11:55:00	3	5.96	7.96	347	12.86
OOL-3	27-02-2007 11:55:00	4	5.94	7.97	348	12.88
OOL-3	27-02-2007 11:55:00	5	5.94	7.97	348	12.89
OOL-3	27-02-2007 11:55:00	6	5.95	7.98	348	12.88
OOL-3	27-02-2007 11:55:00	8	5.91	7.99	347	12.9
OOL-3	27-02-2007 11:55:00	9	5.93	8	347	12.91

OOL-3	27-02-2007 11:55:00	10	5.96	8.01	347	12.91
OOL-3	13-03-2007 10:10:00	0.1	12.9	8.5	417	11.98
OOL-3	13-03-2007 10:10:00	0.5	11.95	8.46	407	11.92
OOL-3	13-03-2007 10:10:00	1	10.91	8.37	383	11.44
OOL-3	13-03-2007 10:10:00	2	10.58	8.21	380	11.13
OOL-3	13-03-2007 10:10:00	3	10.44	8.17	379	10.97
OOL-3	13-03-2007 10:10:00	4	10.09	8.13	369	10.9
OOL-3	13-03-2007 10:10:00	5	10.02	8.11	367	10.81
OOL-3	13-03-2007 10:10:00	6	9.97	8.07	366	10.66
OOL-3	13-03-2007 10:10:00	7	9.85	8.01	365	10.54
OOL-3	13-03-2007 10:10:00	8	9.71	8.01	364	10.65
OOL-3	13-03-2007 10:10:00	9	9.6	8.04	359	10.58
OOL-3	13-03-2007 10:10:00	10	9.54	8	359	10.45
OOL-3	13-03-2007 10:10:00	11	9.3	7.96	358	10.38
OOL-3	13-03-2007 10:10:00	12	9.05	7.95	356	10.38
OOL-3	10-04-2007 09:30:00	0.5	13.14	7.84	331	9.56
OOL-3	16-05-2007 10:05:00	0.1	21.3	7.34	261	4.93
OOL-3	16-05-2007 10:05:00	0.5	21.27	7.34	261	4.89
OOL-3	16-05-2007 10:05:00	1	21.21	7.34	261	4.84
OOL-3	16-05-2007 10:05:00	2	21.19	7.34	261	4.83
OOL-3	16-05-2007 10:05:00	3	21.19	7.34	261	4.81
OOL-3	16-05-2007 10:05:00	4	21.13	7.33	261	4.76
OOL-3	16-05-2007 10:05:00	5	21.1	7.32	260	4.72
OOL-3	16-05-2007 10:05:00	6	21.07	7.34	258	4.66
OOL-3	16-05-2007 10:05:00	7	20.92	7.28	257	4.48
OOL-3	16-05-2007 10:05:00	8	20.87	7.27	257	4.41
OOL-3	16-05-2007 10:05:00	9	20.86	7.27	256	4.33
OOL-3	16-05-2007 10:05:00	10	20.73	7.23	257	3.99
OOL-3	16-05-2007 10:05:00	11	20.28	7.22	259	3.95
OOL-3	16-05-2007 10:05:00	12	20	7.21	266	3.92
OOL-3	16-05-2007 10:05:00	13	19.68	7.22	274	4.02
OOL-3	16-05-2007 10:05:00	14	19.12	7.18	282	4.05
OOL-3	16-05-2007 10:05:00	15	18.46	7.22	298	4.2
OOL-3	12-06-2007 10:30:00	0.1	24.95	7.74	261	6.7
OOL-3	12-06-2007 10:30:00	0.5	24.95	7.74	263	6.67
OOL-3	12-06-2007 10:30:00	1	24.9	7.74	262	6.66
OOL-3	12-06-2007 10:30:00	2	24.91	7.73	262	6.66

OOL-3	12-06-2007 10:30:00	3	24.88	7.72	261	6.63
OOL-3	12-06-2007 10:30:00	4	24.86	7.71	261	6.61
OOL-3	12-06-2007 10:30:00	5	24.85	7.71	260	6.6
OOL-3	12-06-2007 10:30:00	6	24.84	7.7	260	6.6
OOL-3	12-06-2007 10:30:00	7	24.82	7.7	260	6.56
OOL-3	12-06-2007 10:30:00	8	24.79	7.7	259	6.55
OOL-3	12-06-2007 10:30:00	9	24.78	7.7	259	6.55
OOL-3	12-06-2007 10:30:00	10	24.79	7.69	259	6.56
OOL-3	12-06-2007 10:30:00	11	24.79	7.7	259	6.56
OOL-3	12-06-2007 10:30:00	12	24.81	7.69	259	6.56
OOL-3	12-06-2007 10:30:00	13	24.82	7.68	260	6.59
OOL-3	12-06-2007 10:30:00	14	24.83	7.68	260	6.59
OOL-3	12-06-2007 10:30:00	15	24.82	7.67	260	6.58
OOL-3	10-07-2007 12:30:00	0.1	26.94	7.45	177	5.5
OOL-3	10-07-2007 12:30:00	0.5	26.93	7.44	177	5.5
OOL-3	10-07-2007 12:30:00	1	26.92	7.43	177	5.45
OOL-3	10-07-2007 12:30:00	2	26.89	7.42	177	5.38
OOL-3	10-07-2007 12:30:00	3	26.82	7.38	175	5.17
OOL-3	10-07-2007 12:30:00	4	26.73	7.35	171	5.01
OOL-3	10-07-2007 12:30:00	5	26.65	7.35	169	4.95
OOL-3	10-07-2007 12:30:00	6	26.56	7.28	167	4.61
OOL-3	10-07-2007 12:30:00	7	26.46	7.27	165	4.32
OOL-3	10-07-2007 12:30:00	8	26.41	7.22	164	4.11
OOL-3	10-07-2007 12:30:00	9	26.07	7.11	159	3.12
OOL-3	10-07-2007 12:30:00	10	24.86	7.11	141	2.4
OOL-3	10-07-2007 12:30:00	11	24.83	7.12	139	2.39
OOL-3	10-07-2007 12:30:00	12	24.73	7.14	139	2.32
OOL-3	10-07-2007 12:30:00	13	24.68	7.21	139	2.35
OOL-3	10-07-2007 12:30:00	14	24.68	7.3	138	2.49
OOL-3	14-08-2007 10:40:00	0.1	33.04	8.79	210	10.01
OOL-3	14-08-2007 10:40:00	0.5	32.69	8.73	211	9.71
OOL-3	14-08-2007 10:40:00	1	32.33	8.61	214	9.16
OOL-3	14-08-2007 10:40:00	2	31.29	8.36	224	8.43
OOL-3	14-08-2007 10:40:00	3	30.51	7.87	221	6.14
OOL-3	14-08-2007 10:40:00	4	29.9	7.65	226	5.17
OOL-3	14-08-2007 10:40:00	5	29.85	7.56	227	4.92
OOL-3	14-08-2007 10:40:00	6	29.27	7.38	229	3.05

OOL-3	14-08-2007 10:40:00	7	28.98	7.29	232	2.07
OOL-3	14-08-2007 10:40:00	8	28.74	7.28	232	1.46
OOL-3	14-08-2007 10:40:00	9	28.65	7.28	231	1.23
OOL-3	14-08-2007 10:40:00	10	28.62	7.29	230	1.2
OOL-3	14-08-2007 10:40:00	11	28.59	7.33	232	1.03
OOL-3	11-09-2007 11:00:00	0.1	25.72	7.92	237	6.93
OOL-3	11-09-2007 11:00:00	0.5	25.75	7.92	237	6.91
OOL-3	11-09-2007 11:00:00	1	25.75	7.92	237	6.88
OOL-3	11-09-2007 11:00:00	2	25.74	7.93	237	6.88
OOL-3	11-09-2007 11:00:00	3	25.72	7.92	237	6.88
OOL-3	11-09-2007 11:00:00	4	25.71	7.92	237	6.87
OOL-3	11-09-2007 11:00:00	5	25.68	7.93	237	6.87
OOL-3	11-09-2007 11:00:00	6	25.67	7.93	237	6.87
OOL-3	11-09-2007 11:00:00	7	25.64	7.92	237	6.79
OOL-3	11-09-2007 11:00:00	8	25.35	7.9	252	6.81
OOL-3	11-09-2007 11:00:00	9	25.23	7.9	253	6.79
OOL-3	18-10-2007 09:55:00	0.1	20.31	8.3	240	8.48
OOL-3	18-10-2007 09:55:00	0.5	20.34	8.3	240	8.59
OOL-3	18-10-2007 09:55:00	1	20.34	8.3	241	8.58
OOL-3	18-10-2007 09:55:00	2	20.34	8.3	240	8.58
OOL-3	18-10-2007 09:55:00	3	20.34	8.3	241	8.57
OOL-3	18-10-2007 09:55:00	4	20.34	8.3	241	8.57
OOL-3	18-10-2007 09:55:00	5	20.34	8.29	240	8.56
OOL-3	18-10-2007 09:55:00	6	20.33	8.28	240	8.54
OOL-3	18-10-2007 09:55:00	7	20.33	8.27	240	8.52
OOL-3	18-10-2007 09:55:00	8	20.33	8.27	240	8.53
OOL-3	18-10-2007 09:55:00	9	20.31	8.2	240	8.37
OOL-3	13-11-2007 10:20:00	0.1	15.01	8.46	265	11.16
OOL-3	13-11-2007 10:20:00	0.5	15	8.46	265	11.14
OOL-3	13-11-2007 10:20:00	1	14.96	8.45	265	11.08
OOL-3	13-11-2007 10:20:00	2	14.95	8.44	265	11.05
OOL-3	13-11-2007 10:20:00	3	14.91	8.42	265	10.98
OOL-3	13-11-2007 10:20:00	4	14.87	8.4	266	10.9
OOL-3	13-11-2007 10:20:00	5	14.86	8.38	266	10.85
OOL-3	13-11-2007 10:20:00	6	14.83	8.37	266	10.76
OOL-3	13-11-2007 10:20:00	7	14.82	8.36	266	10.72
OOL-3	13-11-2007 10:20:00	8	14.74	8.35	269	10.69

Table 23 USACE OO-4 Vertical Profile Water Quality Monitoring Results

Station	Sample Date/Time	Depth (m)	Temperature (°C)	pH	Specific Conductivity (uS/cm)	DO (mg/L)
OOL-4	10-01-2006 10:15:00	0.1	6.4	8.15	249	12.85
OOL-4	10-01-2006 10:15:00	0.5	6.41	8.16	249	12.84
OOL-4	10-01-2006 10:15:00	1	6.42	8.14	249	12.85
OOL-4	10-01-2006 10:15:00	2	6.41	8.12	249	12.85
OOL-4	10-01-2006 10:15:00	3	6.4	8.1	249	12.87
OOL-4	10-01-2006 10:15:00	4	6.4	8.05	248	12.91
OOL-4	14-02-2006 09:10:00	0.1	4.88	8.1	269	13.07
OOL-4	14-02-2006 09:10:00	0.5	4.88	8.1	268	13.06
OOL-4	14-02-2006 09:10:00	1	4.87	8.09	268	13.05
OOL-4	14-02-2006 09:10:00	2	4.87	8.09	268	13.03
OOL-4	14-02-2006 09:10:00	3	4.87	8.09	268	13.03
OOL-4	14-02-2006 09:10:00	4	4.87	8.09	268	13.01
OOL-4	14-02-2006 09:10:00	5	4.86	8.08	269	13
OOL-4	14-02-2006 09:10:00	6	4.86	8.1	269	12.99
OOL-4	14-02-2006 09:10:00	7	4.86	8.08	269	12.98
OOL-4	14-02-2006 09:10:00	8	4.87	8.08	269	12.96
OOL-4	14-02-2006 09:10:00	9	4.86	8.08	268	12.94
OOL-4	09-05-2006 10:00:00	0.1	17.85	7.77	260	7.65
OOL-4	09-05-2006 10:00:00	0.5	17.84	7.77	260	7.64
OOL-4	09-05-2006 10:00:00	1	17.84	7.77	260	7.62
OOL-4	09-05-2006 10:00:00	2	17.83	7.77	260	7.59
OOL-4	09-05-2006 10:00:00	3	17.83	7.76	261	7.51
OOL-4	09-05-2006 10:00:00	4	17.61	7.74	257	7.36
OOL-4	09-05-2006 10:00:00	5	17.58	7.74	257	7.33
OOL-4	09-05-2006 10:00:00	6	17.56	7.73	256	7.28
OOL-4	09-05-2006 10:00:00	7	17.33	7.73	250	7.05
OOL-4	09-05-2006 10:00:00	8	17.31	7.74	248	7.05
OOL-4	09-05-2006 10:00:00	9	17.31	7.74	248	7.06
OOL-4	09-05-2006 10:00:00	10	17.32	7.74	248	7.06
OOL-4	15-06-2006 09:50:00	0.1	26.56	8.18	345	7.07
OOL-4	15-06-2006 09:50:00	0.5	26.55	8.19	345	7.03
OOL-4	15-06-2006 09:50:00	1	26.56	8.2	345	7.07
OOL-4	15-06-2006 09:50:00	2	26.54	8.17	345	7.02

OOL-4	15-06-2006 09:50:00	3	26.54	8.17	345	6.97
OOL-4	15-06-2006 09:50:00	4	26.54	8.16	345	6.98
OOL-4	15-06-2006 09:50:00	5	26.53	8.09	346	6.84
OOL-4	15-06-2006 09:50:00	6	26.47	7.98	349	6.09
OOL-4	11-07-2006 10:05:00	0.1	26.04	7.79	353	6.46
OOL-4	11-07-2006 10:05:00	0.5	26.05	7.8	353	6.44
OOL-4	11-07-2006 10:05:00	1	26.04	7.8	354	6.39
OOL-4	11-07-2006 10:05:00	2	26.04	7.81	355	6.4
OOL-4	11-07-2006 10:05:00	3	26.04	7.8	356	6.37
OOL-4	11-07-2006 10:05:00	4	26.03	7.79	357	6.34
OOL-4	11-07-2006 10:05:00	5	26.02	7.73	360	6.2
OOL-4	15-08-2006 09:50:00	0.1	29.91	8.26	351	6.77
OOL-4	15-08-2006 09:50:00	0.5	29.91	8.26	351	6.75
OOL-4	15-08-2006 09:50:00	1	29.88	8.26	350	6.72
OOL-4	15-08-2006 09:50:00	2	29.82	8.2	349	6.64
OOL-4	15-08-2006 09:50:00	3	29.78	8.18	348	6.57
OOL-4	15-08-2006 09:50:00	4	29.73	8.16	346	6.44
OOL-4	15-08-2006 09:50:00	5	29.63	8.15	342	6.23
OOL-4	12-09-2006 10:10:00	0.1	24.31	8.13	347	6.39
OOL-4	12-09-2006 10:10:00	0.5	24.32	8.15	346	6.38
OOL-4	12-09-2006 10:10:00	1	24.33	8.14	346	6.37
OOL-4	12-09-2006 10:10:00	2	24.34	8.11	347	6.34
OOL-4	12-09-2006 10:10:00	3	24.35	8.12	346	6.33
OOL-4	12-09-2006 10:10:00	4	24.34	8.14	347	6.31
OOL-4	11-10-2006 11:50:00	0.1	19.85	8.17	335	7.83
OOL-4	11-10-2006 11:50:00	0.5	19.82	8.17	335	7.82
OOL-4	11-10-2006 11:50:00	1	19.81	8.18	335	7.81
OOL-4	11-10-2006 11:50:00	2	19.74	8.17	335	7.81
OOL-4	11-10-2006 11:50:00	3	19.7	8.17	335	7.82
OOL-4	11-10-2006 11:50:00	4	19.67	8.19	335	7.82
OOL-4	11-10-2006 11:50:00	5	19.63	8.21	336	7.88
OOL-4	11-10-2006 11:50:00	6	19.6	8.23	337	7.9
OOL-4	11-10-2006 11:50:00	7	19.59	8.23	337	7.92
OOL-4	11-10-2006 11:50:00	8	19.55	8.22	337	7.92
OOL-4	11-10-2006 11:50:00	9	19.53	8.23	337	7.87
OOL-4	07-11-2006 11:50:00	0.1	10.81	8.27	337	10.85
OOL-4	07-11-2006 11:50:00	0.5	10.82	8.27	337	10.83

OOL-4	07-11-2006 11:50:00	1	10.81	8.27	337	10.8
OOL-4	07-11-2006 11:50:00	2	10.75	8.26	337	10.76
OOL-4	07-11-2006 11:50:00	3	10.73	8.24	337	10.63
OOL-4	07-11-2006 11:50:00	4	10.69	8.22	338	10.59
OOL-4	12-12-2006 09:45:00	0.1	4.8	7.32	329	12.89
OOL-4	12-12-2006 09:45:00	0.5	4.8	7.33	329	12.9
OOL-4	12-12-2006 09:45:00	1	4.8	7.38	329	12.89
OOL-4	12-12-2006 09:45:00	2	4.81	7.48	329	12.89
OOL-4	12-12-2006 09:45:00	3	4.81	7.62	329	12.87
OOL-4	12-12-2006 09:45:00	4	4.82	7.71	329	12.85
OOL-4	12-12-2006 09:45:00	5	4.82	7.94	329	12.82
OOL-4	12-12-2006 09:45:00	6	4.82	7.94	329	12.84
OOL-4	12-12-2006 09:45:00	7	4.82	7.97	329	12.79
OOL-4	12-12-2006 09:45:00	8	4.81	8.12	329	12.76
OOL-4	27-02-2007 11:30:00	0.1	8.18	8.4	429	12.51
OOL-4	27-02-2007 11:30:00	0.5	7.96	8.37	427	12.43
OOL-4	27-02-2007 11:30:00	1	7.58	8.32	427	12.48
OOL-4	27-02-2007 11:30:00	2	7.54	8.32	426	12.49
OOL-4	27-02-2007 11:30:00	3	7.53	8.32	426	12.46
OOL-4	27-02-2007 11:30:00	4	7.49	8.29	425	12.49
OOL-4	27-02-2007 11:30:00	5	7.49	8.29	425	12.53
OOL-4	27-02-2007 11:30:00	6	7.5	8.31	425	12.57
OOL-4	27-02-2007 11:30:00	7	7.49	8.3	426	12.57
OOL-4	27-02-2007 11:30:00	8	7.48	8.3	425	12.55
OOL-4	27-02-2007 11:30:00	9	7.46	8.31	424	12.58
OOL-4	13-03-2007 09:40:00	0.1	13.68	8.51	428	10.82
OOL-4	13-03-2007 09:40:00	0.5	13.24	8.46	426	10.35
OOL-4	13-03-2007 09:40:00	1	12.19	8.29	428	9.58
OOL-4	13-03-2007 09:40:00	2	10.94	8.04	423	9.65
OOL-4	13-03-2007 09:40:00	3	10.68	8	423	9.66
OOL-4	13-03-2007 09:40:00	4	10.61	7.98	423	9.65
OOL-4	13-03-2007 09:40:00	5	10.57	7.97	423	9.63
OOL-4	13-03-2007 09:40:00	6	10.53	7.97	423	9.49
OOL-4	13-03-2007 09:40:00	7	10.49	7.96	423	9.32
OOL-4	13-03-2007 09:40:00	8	10.33	7.93	422	9.06
OOL-4	13-03-2007 09:40:00	9	10.17	7.86	422	8.8
OOL-4	13-03-2007 09:40:00	10	10.15	7.83	423	8.61

OOL-4	16-05-2007 09:35:00	0.1	20.6	7.23	224	4.28
OOL-4	16-05-2007 09:35:00	0.5	20.59	7.26	224	4.16
OOL-4	16-05-2007 09:35:00	1	20.59	7.25	224	4.15
OOL-4	16-05-2007 09:35:00	2	20.59	7.26	224	4.13
OOL-4	16-05-2007 09:35:00	3	20.58	7.25	224	4.1
OOL-4	16-05-2007 09:35:00	4	20.58	7.25	224	4.06
OOL-4	16-05-2007 09:35:00	5	20.57	7.23	224	3.98
OOL-4	16-05-2007 09:35:00	6	20.57	7.21	224	3.96
OOL-4	16-05-2007 09:35:00	7	20.54	7.2	223	3.87
OOL-4	16-05-2007 09:35:00	8	20.52	7.2	223	3.84
OOL-4	16-05-2007 09:35:00	10	20.52	7.2	223	3.84
OOL-4	16-05-2007 09:35:00	11	20.52	7.19	223	3.82
OOL-4	16-05-2007 09:35:00	12	20.44	7.18	220	3.58
OOL-4	16-05-2007 09:35:00	13	20.45	7.19	221	3.6
OOL-4	12-06-2007 09:30:00	0.1	25.11	7.68	227	6.84
OOL-4	12-06-2007 09:30:00	0.5	25.12	7.68	228	6.83
OOL-4	12-06-2007 09:30:00	1	25.08	7.66	226	6.8
OOL-4	12-06-2007 09:30:00	2	24.96	7.6	223	6.66
OOL-4	12-06-2007 09:30:00	3	24.9	7.57	222	6.54
OOL-4	12-06-2007 09:30:00	4	24.54	7.47	217	5.91
OOL-4	12-06-2007 09:30:00	5	24.3	7.43	207	5.66
OOL-4	12-06-2007 09:30:00	6	24.24	7.41	206	5.58
OOL-4	12-06-2007 09:30:00	7	24.2	7.41	205	5.55
OOL-4	12-06-2007 09:30:00	8	24.12	7.38	200	5.43
OOL-4	12-06-2007 09:30:00	9	24.06	7.37	198	5.36
OOL-4	12-06-2007 09:30:00	10	24.07	7.37	199	5.34
OOL-4	12-06-2007 09:30:00	11	24.05	7.35	198	5.31
OOL-4	12-06-2007 09:30:00	12	24.09	7.36	198	5.38
OOL-4	14-08-2007 09:45:00	0.1	31.96	8.66	227	9.31
OOL-4	14-08-2007 09:45:00	0.5	31.87	8.63	227	9.25
OOL-4	14-08-2007 09:45:00	1	31.39	8.55	227	9.1
OOL-4	14-08-2007 09:45:00	2	30.92	8.32	228	8.17
OOL-4	14-08-2007 09:45:00	3	30.27	7.66	232	5.12
OOL-4	14-08-2007 09:45:00	4	29.72	7.45	235	3.47
OOL-4	14-08-2007 09:45:00	5	29.45	7.42	234	3.09
OOL-4	14-08-2007 09:45:00	6	29.06	7.39	232	2.6
OOL-4	14-08-2007 09:45:00	7	28.81	7.37	233	2.01

OOL-4	14-08-2007 09:45:00	8	28.66	7.36	234	1.26
OOL-4	14-08-2007 09:45:00	9	28.57	7.36	236	0.68
OOL-4	14-08-2007 09:45:00	10	28.5	7.4	236	0.29
OOL-4	14-08-2007 09:45:00	11	28.39	7.46	240	0.21
OOL-4	11-09-2007 10:30:00	0.1	25.68	7.91	248	6.91
OOL-4	11-09-2007 10:30:00	0.5	25.67	7.91	248	6.91
OOL-4	11-09-2007 10:30:00	1	25.66	7.91	248	6.89
OOL-4	11-09-2007 10:30:00	2	25.64	7.9	248	6.86
OOL-4	11-09-2007 10:30:00	3	25.64	7.9	248	6.86
OOL-4	11-09-2007 10:30:00	4	25.63	7.9	248	6.84
OOL-4	11-09-2007 10:30:00	5	25.6	7.9	248	6.81
OOL-4	11-09-2007 10:30:00	6	25.55	7.9	248	6.77
OOL-4	11-09-2007 10:30:00	7	25.55	7.88	249	6.3
OOL-4	18-10-2007 09:10:00	0.1	19.3	8.38	284	8.51
OOL-4	18-10-2007 09:10:00	0.5	19.3	8.37	284	8.49
OOL-4	18-10-2007 09:10:00	1	19.3	8.36	284	8.47
OOL-4	18-10-2007 09:10:00	2	19.3	8.36	285	8.47
OOL-4	18-10-2007 09:10:00	3	19.27	8.32	287	8.34
OOL-4	13-11-2007 11:15:00	0.1	14.72	8.38	313	11.03
OOL-4	13-11-2007 11:15:00	0.5	14.71	8.38	313	11
OOL-4	13-11-2007 11:15:00	1	14.68	8.37	314	10.98
OOL-4	13-11-2007 11:15:00	2	14.68	8.36	314	10.96
OOL-4	13-11-2007 11:15:00	3	14.65	8.33	315	10.79
OOL-4	13-11-2007 11:15:00	4	14.61	8.32	318	10.72
OOL-4	13-11-2007 11:15:00	5	14.58	8.3	320	10.67
OOL-4	13-11-2007 11:15:00	6	14.57	8.31	321	10.66
OOL-4	13-11-2007 11:15:00	7	14.57	8.3	321	10.63
OOL-4	13-11-2007 11:15:00	8	14.58	8.3	321	10.61

Table 24 USACE OO-5 Vertical Profile Water Quality Monitoring Results

Station	Sample Date/Time	Depth (m)	Temperature (°C)	pH	Specific Conductivity (uS/cm)	DO (mg/L)
OOL-5	10-01-2006 10:45:00	0.1	5.71	8.14	252	13.18
OOL-5	10-01-2006 10:45:00	0.5	5.7	8.13	251	13.29
OOL-5	10-01-2006 10:45:00	1	5.7	8.1	252	13.56

OOL-5	14-02-2006 09:45:00	0.1	4.29	8.04	272	13.37
OOL-5	14-02-2006 09:45:00	0.5	4.28	8.04	272	13.38
OOL-5	14-02-2006 09:45:00	1	4.27	8.05	272	13.4
OOL-5	09-05-2006 09:35:00	0.1	18.74	7.74	246	7.7
OOL-5	09-05-2006 09:35:00	0.5	18.74	7.76	246	7.65
OOL-5	09-05-2006 09:35:00	1	18.69	7.76	246	7.63
OOL-5	09-05-2006 09:35:00	2	18.56	7.78	247	7.68
OOL-5	15-06-2006 09:30:00	0.1	26.76	8.25	359	6.76
OOL-5	15-06-2006 09:30:00	0.5	26.76	8.26	359	6.74
OOL-5	15-06-2006 09:30:00	1	26.76	8.25	359	6.71
OOL-5	15-06-2006 09:30:00	2	26.76	8.23	359	6.71
OOL-5	11-07-2006 09:35:00	0.1	25.53	7.72	355	6.72
OOL-5	11-07-2006 09:35:00	0.5	25.53	7.73	355	6.7
OOL-5	11-07-2006 09:35:00	1	25.53	7.74	355	6.69
OOL-5	11-07-2006 09:35:00	2	25.53	7.75	355	6.62
OOL-5	15-08-2006 09:30:00	0.1	29.17	8.22	367	6.26
OOL-5	15-08-2006 09:30:00	0.5	29.18	8.24	367	6.26
OOL-5	15-08-2006 09:30:00	1	29.17	8.21	367	6.24
OOL-5	12-09-2006 10:30:00	0.1	22.97	8.22	367	7.27
OOL-5	12-09-2006 10:30:00	0.5	22.98	8.27	367	7.22
OOL-5	12-09-2006 10:30:00	1	22.99	8.26	367	7.2
OOL-5	11-10-2006 11:20:00	0.1	18.44	8.3	350	8.14
OOL-5	11-10-2006 11:20:00	0.5	18.45	8.3	350	8.12
OOL-5	11-10-2006 11:20:00	1	18.43	8.28	350	8
OOL-5	11-10-2006 11:20:00	2	18.39	8.31	350	7.9
OOL-5	07-11-2006 12:15:00	0.1	10.78	8.26	340	10.83
OOL-5	07-11-2006 12:15:00	0.5	10.73	8.26	340	10.79
OOL-5	07-11-2006 12:15:00	1	10.65	8.25	341	10.76
OOL-5	07-11-2006 12:15:00	2	10.56	8.24	341	10.71
OOL-5	07-11-2006 12:15:00	3	10.51	8.23	341	10.65
OOL-5	07-11-2006 12:15:00	4	10.44	8.22	341	10.53
OOL-5	07-11-2006 12:15:00	5	10.3	8.19	342	10.41
OOL-5	07-11-2006 12:15:00	6	10.29	8.19	342	10.43
OOL-5	12-12-2006 10:10:00	0.1	6.85	7.75	341	11.99
OOL-5	12-12-2006 10:10:00	0.5	6.82	7.76	341	11.98
OOL-5	12-12-2006 10:10:00	1	6.8	7.76	341	11.96
OOL-5	12-12-2006 10:10:00	2	6.79	7.77	341	11.8

OOL-5	12-12-2006 10:10:00	2.5	6.79	7.78	341	11.44
OOL-5	27-02-2007 11:00:00	0.1	7.15	7.99	371	12.33
OOL-5	27-02-2007 11:00:00	0.5	7.1	7.99	372	12.28
OOL-5	27-02-2007 11:00:00	1	7.18	7.97	370	12.34
OOL-5	27-02-2007 11:00:00	2	7.03	8.04	385	12.14
OOL-5	27-02-2007 11:00:00	3	7	8	384	12.09
OOL-5	13-03-2007 09:10:00	0.1	15.03	8.47	461	10.89
OOL-5	13-03-2007 09:10:00	0.5	14.99	8.45	462	10.54
OOL-5	13-03-2007 09:10:00	1	14.51	8.35	479	9.72
OOL-5	13-03-2007 09:10:00	2	12.68	8.17	457	9.13
OOL-5	13-03-2007 09:10:00	3	11.89	7.98	436	8.44
OOL-5	10-04-2007 10:15:00	0.1	13.03	7.91	343	9.12
OOL-5	10-04-2007 10:15:00	0.5	13.03	7.92	344	9.12
OOL-5	10-04-2007 10:15:00	1	13.04	7.92	344	9.12
OOL-5	10-04-2007 10:15:00	2	13.03	7.91	344	9.15
OOL-5	10-04-2007 10:15:00	3	13.03	7.9	344	9.22
OOL-5	10-04-2007 10:15:00	4	13.02	7.89	346	9.48
OOL-5	16-05-2007 09:10:00	0.1	22.09	7.45	235	5.9
OOL-5	16-05-2007 09:10:00	0.5	22.11	7.47	236	5.89
OOL-5	16-05-2007 09:10:00	1	22.09	7.48	235	5.84
OOL-5	16-05-2007 09:10:00	2	22.08	7.47	234	5.82
OOL-5	16-05-2007 09:10:00	3	22.05	7.45	233	5.73
OOL-5	16-05-2007 09:10:00	4	21.96	7.44	228	5.57
OOL-5	16-05-2007 09:10:00	5	21.91	7.42	224	5.44
OOL-5	16-05-2007 09:10:00	6	21.88	7.44	223	5.41
OOL-5	12-06-2007 10:00:00	0.1	24.61	7.44	182	5.97
OOL-5	12-06-2007 10:00:00	0.5	24.59	7.44	181	5.95
OOL-5	12-06-2007 10:00:00	1	24.22	7.38	169	5.98
OOL-5	12-06-2007 10:00:00	2	24.11	7.27	165	5.63
OOL-5	12-06-2007 10:00:00	3	23.23	7.2	123	5.06
OOL-5	12-06-2007 10:00:00	4	23.16	7.2	120	5.01
OOL-5	12-06-2007 10:00:00	5	23.14	7.18	118	4.97
OOL-5	12-06-2007 10:00:00	6	23.13	7.19	118	4.97
OOL-5	14-08-2007 10:05:00	0.1	32.16	8.55	230	9.43
OOL-5	14-08-2007 10:05:00	0.5	32.11	8.49	230	9.32
OOL-5	14-08-2007 10:05:00	1	31.43	8.18	231	6.88
OOL-5	14-08-2007 10:05:00	2	30.09	7.69	239	5.64

OOL-5	14-08-2007 10:05:00	3	29.78	7.66	239	5.16
OOL-5	14-08-2007 10:05:00	4	29.65	7.67	240	5.09
OOL-5	11-09-2007 10:10:00	0.1	24.16	7.86	268	7.07
OOL-5	11-09-2007 10:10:00	0.5	24.16	7.85	269	7.07
OOL-5	11-09-2007 10:10:00	1	24.15	7.86	269	7.05
OOL-5	11-09-2007 10:10:00	2	24.14	7.86	269	7
OOL-5	11-09-2007 10:10:00	3	24.14	7.86	269	6.94
OOL-5	18-10-2007 09:30:00	0.1	18.5	8.36	291	8.78
OOL-5	18-10-2007 09:30:00	0.5	18.5	8.36	290	8.77
OOL-5	18-10-2007 09:30:00	1	18.51	8.36	290	8.77
OOL-5	18-10-2007 09:30:00	2	18.49	8.34	291	8.75
OOL-5	18-10-2007 09:30:00	3	18.48	8.3	291	8.65
OOL-5	13-11-2007 10:50:00	0.1	15.73	8.25	355	10.46
OOL-5	13-11-2007 10:50:00	0.5	15.72	8.26	355	10.43
OOL-5	13-11-2007 10:50:00	1	15.71	8.25	355	10.38
OOL-5	13-11-2007 10:50:00	2	15.64	8.26	360	10.25
OOL-5	13-11-2007 10:50:00	3	15.64	8.25	366	10.21