Echo Lake Historical Data Technical Memorandum:

2001-2011 Water Quality Monitoring Results

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King County

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Echo Lake Historical Data Technical Memorandum: 2001-2011 Water Quality Monitoring Results

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1.0 INTRODUCTION

This technical memorandum is part of a larger effectiveness study funded by Municipal Stormwater National Pollution Discharge Elimination System (NPDES) permit fees distributed by the Regional Stormwater Monitoring Program (RSMP). The effectiveness study was designed to address data gaps identified by the Stormwater Work Group (SWG) associated with the effectiveness of stormwater treatment technologies used in the Puget Sound Region. The overall study evaluates the effectiveness of stormwater treatment features recently added along the Aurora Corridor (part of State Route 99) in Shoreline, Washington, where highway, commercial and residential stormwater is received by Echo Lake. Construction of stormwater treatment features within the Echo Lake drainage basin began in 2011 and is scheduled to be complete at the end of 2015.

The purpose of this technical memorandum is to summarize water quality data collected in Echo Lake (2001-2011), prior to installation of the stormwater treatment and control features. These data provide a water quality baseline for the lake, which can then be compared, in the final report, to data collected during and after the stormwater retrofit (2012-2016). The comparison is intended to complement the assessment of effectiveness of individual treatment features in the basin. The goal is not to establish a causal link between changes in stormwater infrastructure and water quality in the receiving water body, but to leverage existing data to enhance the discussion of how water quality may be affected by stormwater infrastructure changes in the basin.

The surface area of Echo Lake is 12 acres and the maximum depth is 30 feet (Table 1). Land use in the 215 acre Echo Lake drainage basin is comprised primarily of residential and commercial development, and residential and arterial roadways, including the Aurora highway. Most parcels in this basin were developed prior to 1980, and included no stormwater treatment or controls[1]. The Echo Lake drainage basin boundaries and characteristics are presented in Figure 1.

Table 1. Echo Lake characteristics.

Drainage Basin Area	215 acres
Lake Surface Area	12 acres
Maximum Depth	30 feet
Fish Present	Stocked rainbow trout

Echo lake water quality has been monitored by the City of Shoreline (Shoreline) in partnership with the King County Small Lakes Monitoring Program and the King County Swimming Beach Program since 2001. Shoreline and King County's Small Lakes Monitoring Program collect bi-weekly water quality samples from May through October at a mid-lake sampling station (one-meter depth) (Figure 2). In addition, water samples at this location are collected twice a year from multiple depths to assess conditions in the full water column profile. All samples are analyzed by King County Environmental Laboratory (KCEL) for chlorophyll-α (algal indicator), pheophytin-α (a degradate of chlorophyll), total

[1] This information was gathered from the draft McAleer Creek Basin Plan prepared for the City of Shoreline (2015).

nitrogen and total phosphorus. Field observations of water temperature and Secchi depth (transparency) are also recorded. Starting in 2009, dissolved oxygen (DO) field observations have been recorded at one-meter depth intervals during the bi-weekly sampling, and starting in 2005, orthophosphate phosphorus, and ammonia-nitrogen have also been analyzed in the water column profile samples[2]. As part of King County's Swimming Beach Monitoring Program, water samples are also collected by Shoreline personnel at one location near Echo Lake Park. Since 2004 monthly samples have been collected from May through September and analyzed for fecal coliform by KCEL (Figure 2).

This technical memorandum summarizes water quality data for the physical parameters (Secchi depth and water temperature; Section 2.0), and chemical and biological parameters (nutrients, chlorophyll, and bacteria; Section 3.0). Data are summarized by month and year to provide a temporal perspective. Section 4.0 presents a summary of water column profile data including water temperature, DO, nutrients, and chlorophyll. Section 5.0 summarizes data quality with a discussion of the data validation results. Appendix A includes all raw data with data validation qualifiers and notes.

[2] Total alkalinity, UV absorbance (water color), and nitrite/nitrate nitrogen have also been analyzed; however, due to limited sample size, these data are not included in the technical memorandum.

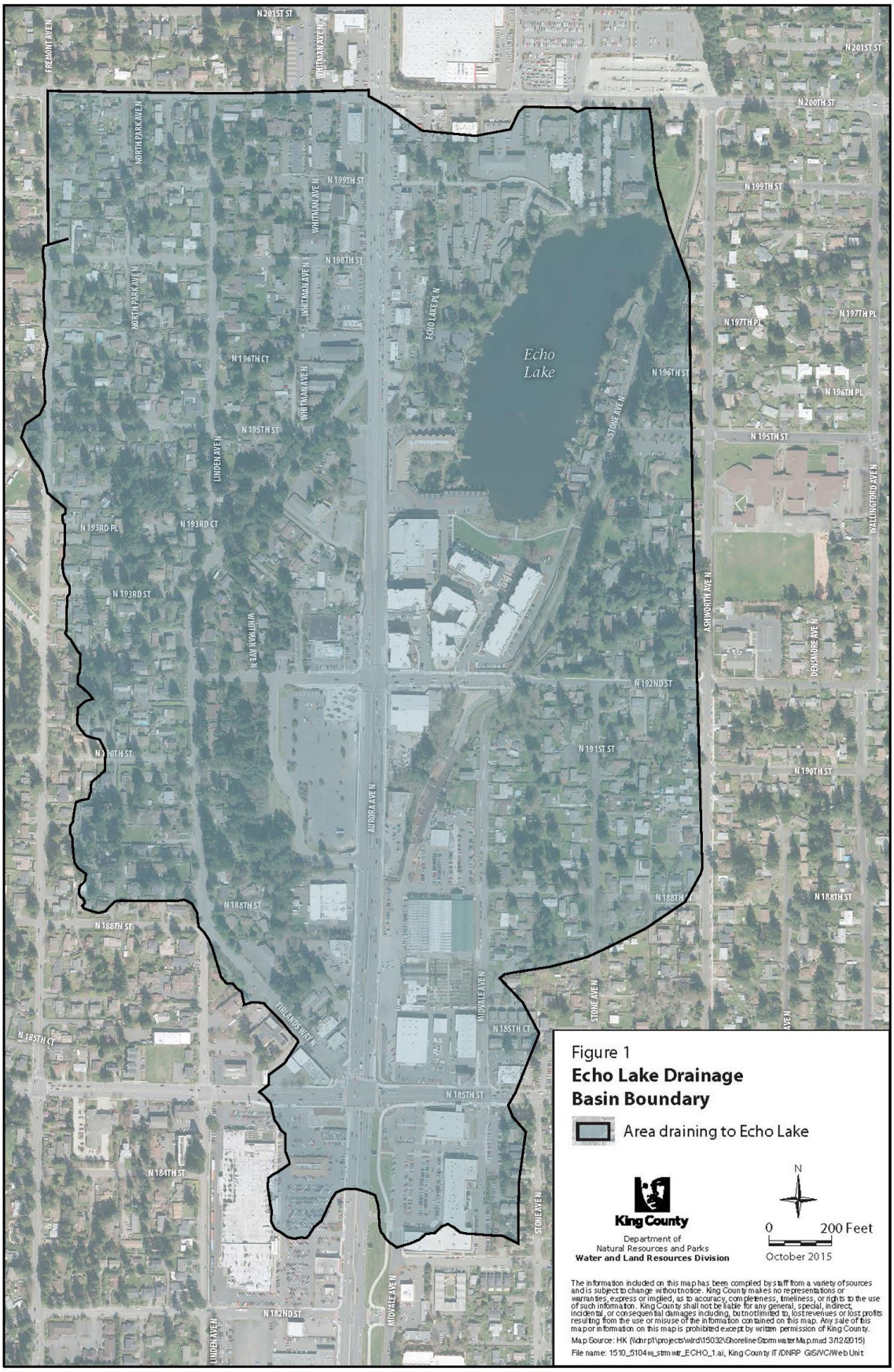

Figure 1. Echo Lake drainage basin boundaries.

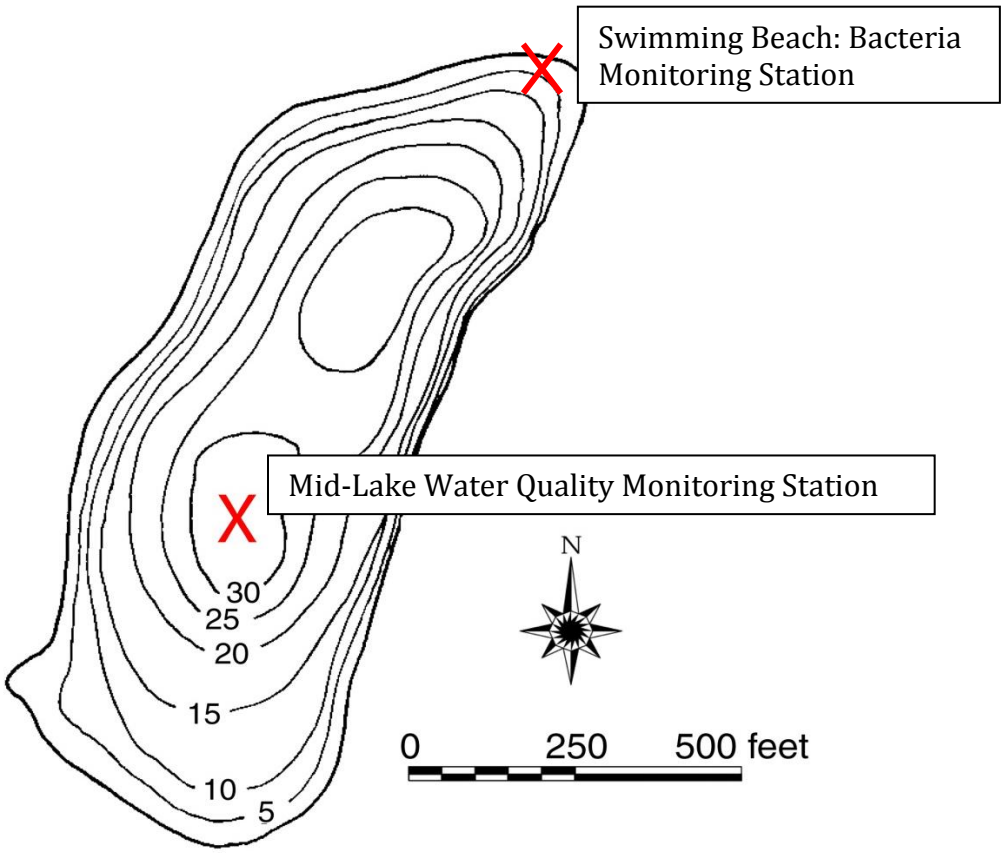

Figure 2. Echo Lake bathymetry and sampling stations.

2.0 PHYSICAL PARAMETERS

2.1 Water Temperature

Water temperature is usually measured with an alcohol-based thermometer that holds a specific temperature reading to allow the observer to record it after removing the thermometer from the water. No quality control readings are recorded for this parameter, therefore, the data should be considered estimates.

Temperatures in Echo Lake at the one-meter depth ranged from 9.0°C to 26.3°C, with an average of 19.7°C (Tables 2 and3 and Figures 3 and 4) ..

Table 2. Monthly average water temperature at 1 meter in Echo Lake (2001, 2003-11).

Month	Average Temp (°C)	Min	Max	St Dev.	N
May	15.9	9.0	21.0	2.6	20
June	19.6	16.7	25.5	2.5	23
July	22.1	19.9	25.0	1.6	15
Aug.	22.4	20.5	26.3	1.6	22
Sept.	19.1	17.0	22.0	1.6	20
Oct.	14.3	12.0	17.2	1.5	19

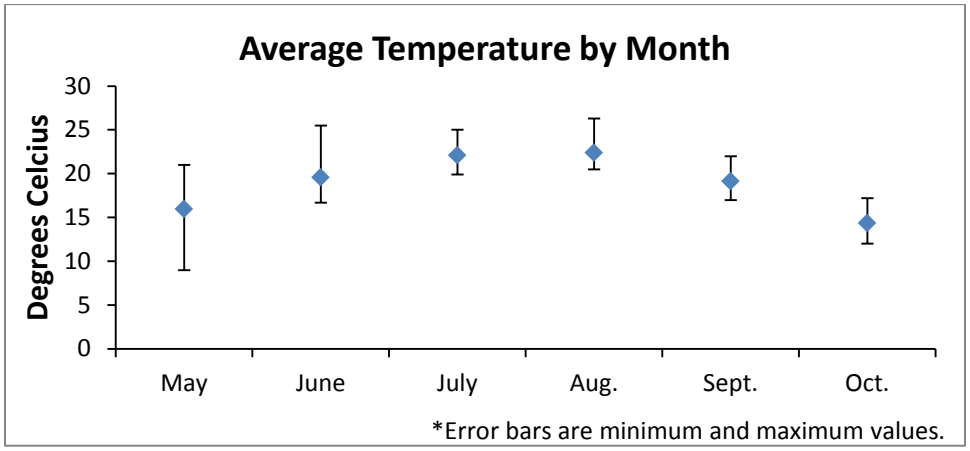

Figure 3. Monthly average water temperature at 1 meter in Echo Lake (2001, 2003-11).

Table 3. Annual average water temperature at 1 meter in Echo Lake (May – Oct.).

Year	Average Temp (°C)	Min	Max	St Dev.	N
2001	18.4	12.0	24.0	3.5	11
2003	19.5	9.0	25.0	4.5	12
2004	20.7	13.0	25.5	4.1	12
2005	18.9	13.9	23.2	3.3	12
2006	19.0	13.6	22.7	3.1	12
2007	18.3	12.0	22.6	3.6	12
2008	18.3	13.0	23.0	3.1	12
2009	19.7	13.5	26.3	3.3	12
2010	17.9	13.2	22.8	3.1	12
2011	17.9	12.9	21.9	3.2	12

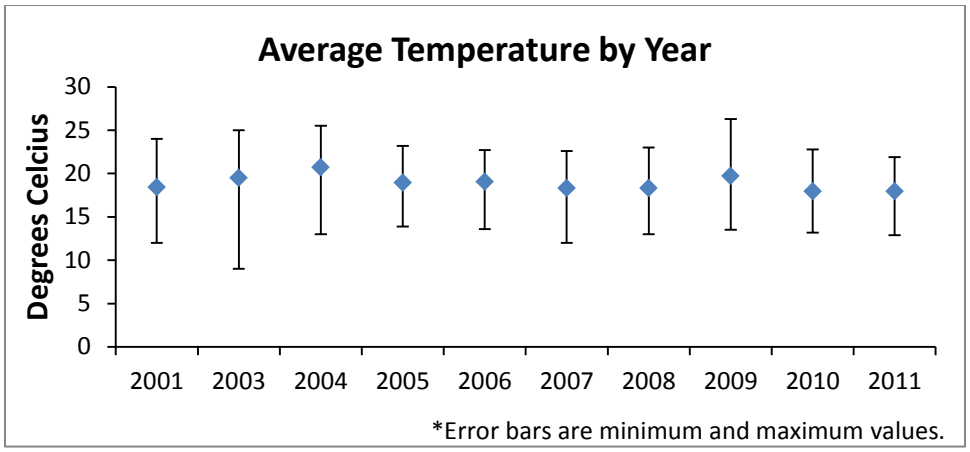

Figure 4. Annual average water temperature at 1 meter in Echo Lake (May – Oct.).

2.2 Secchi Depth

Secchi depth (transparency) is a common method used to assess and compare water clarity over time. It is a measure of the water depth at which a black and white disk disappears from view when lowered from the water surface. Secchi depth measurements were collected at the mid-lake sampling station in Echo Lake from May through October. No quality control readings are recorded for this parameter; therefore, the data should be considered estimates.

Secchi transparency ranged between 0.6 and 4.5 meters, with an average of 2.4 meters. Secchi transparency is summarized by month (Table 4, Figure 5) and by year (Table 5, Figure 6). Note that the Y-axis is traditionally reversed on Secchi charts to mimic looking into the water from the lake surface.

Table 4. Monthly average Secchi depth in Echo Lake (2001, 2003-11).

Month	Average Secchi Depth (m)	Min	Max	St Dev.	N
May	2.8	1.3	3.9	0.7	19
June	2.4	0.9	4.5	0.8	23
July	2.1	1.0	3.4	0.6	16
Aug.	2.1	0.8	3.5	0.8	22
Sept.	2.4	0.6	3.4	0.7	20
Oct.	2.4	1.5	4.5	0.8	19

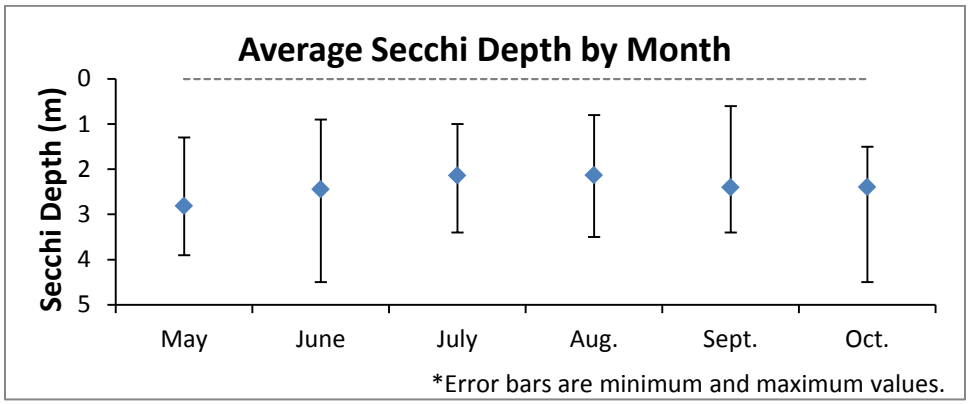

Figure 5. Monthly average Secchi depth in Echo Lake (2001, 2003-11). Note inverted y-axis.

Table 5. Annual average Secchi depth in Echo Lake (May – Oct.).

Year	Average Secchi Depth (m)	Min	Max	St Dev.	N
2001	2.1	1.8	2.3	0.2	11
2003	2.1	1.3	3.0	0.6	12
2004	1.9	0.9	3.4	0.9	13
2005	2.4	1.6	3.5	0.6	12
2006	2.9	1.9	3.9	0.7	12
2007	2.6	1.7	3.2	0.5	12
2008	2.8	1.7	3.4	0.6	11
2009	2.4	0.6	3.5	1.0	12
2010	2.0	0.9	2.9	0.7	12
2011	2.8	1.7	4.5	1.0	12

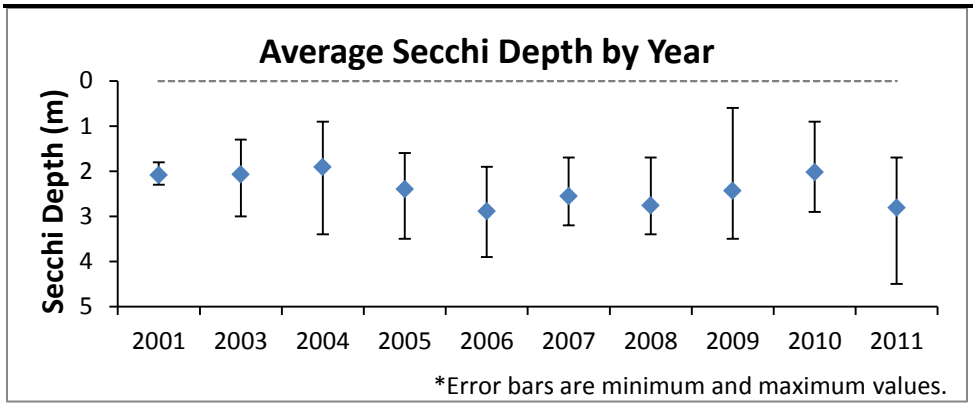

Figure 6. Annual average Secchi depth in Echo Lake (May – Oct.). Note inverted y-axis.

3.0 CHEMICAL AND BIOLOGICAL PARAMETERS

3.1 Total Nitrogen and Total Phosphorus

Nitrogen and phosphorus are naturally occurring elements necessary for growth and reproduction in both plants and animals. However, many activities associated with residential development can result in an increase in these nutrients levels. In Puget Sound lowland lakes, phosphorus is often the limiting nutrient. Increases in phosphorus can lead to more frequent and dense algae blooms – a nuisance to residents and lake users, and a potential safety threat if blooms become dominated by cyanobacteria (blue-green algae) that can produce toxins.

Samples for total nitrogen and total phosphorus analysis were collected at a depth of one meter during the months of May through October. Standard methods 4500-N-C and 4500-P-B, F were used for these analyses, respectively (APHA 1998). Samples from additional depths were collected twice a year (See Section 4.0). Total nitrogen concentrations ranged from 356 to 1,440 µg/L, with an average of 588 µg/L Total phosphorus concentrations ranged from 14.1 to 137 µg/L, with an average of 31.3 µg/L Both nitrogen and phosphorus data are summarized in Tables 6 – 9 and Figures 7 - 10.

Table 6. Monthly average total nitrogen at 1 meter in Echo Lake (2001, 2003-11).

Month	Average TN (µg/L)	Min	Max	St Dev.	N
May	613	455	1,020	152	20
June	587	356	956	171	23
July	594	401	1,050	186	16
Aug.	575	386	1,190	186	22
Sept.	581	418	1,440	227	20
Oct.	584	419	849	138	19

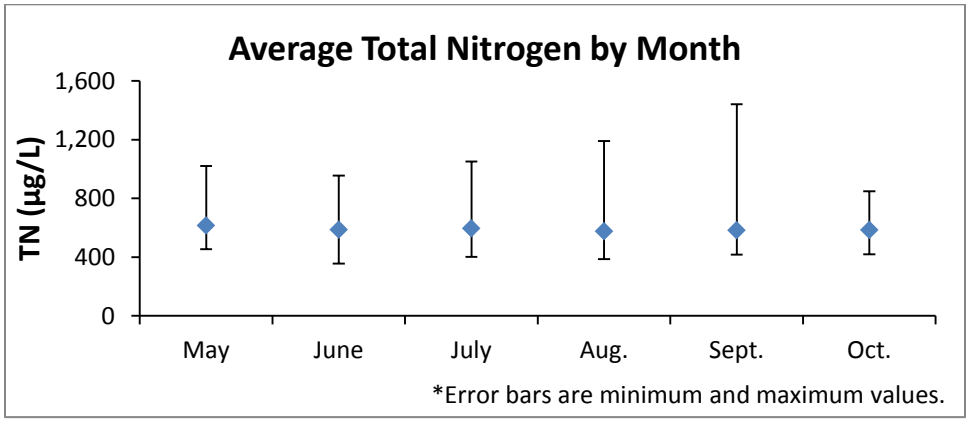

Figure 7. Monthly average total nitrogen at 1 meter in Echo Lake (2001, 2003-11).

Table 7. Annual average total nitrogen at 1 meter in Echo Lake (May – Oct.).

Year	Average TN (µg/L)	Min	Max	St Dev.	N
2001	554	448	772	102	11
2003	630	466	869	129	12
2004	724	451	1050	165	13
2005	615	413	1020	200	12
2006	518	386	695	97	12
2007	504	404	825	110	12
2008	512	401	670	76	12
2009	691	356	1440	328	12
2010	593	460	868	146	12
2011	529	419	956	144	12

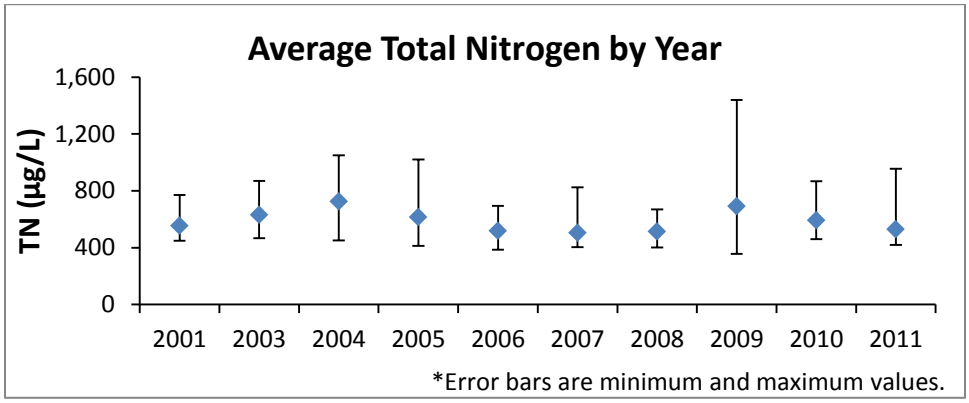

Figure 8. Annual average total nitrogen at 1 meter in Echo Lake (May – Oct.).

Table 8. Monthly average total phosphorus at 1 meter in Echo Lake (2001, 2003-11).

Month	Average TP (µg/L)	Min	Max	St Dev.	N
May	34.8	18.4	55.1	11	21
June	36.6	19.1	96.3	23	23
July	25.2	14.8	40.1	8.0	16
Aug.	26.3	14.1	59.7	10	22
Sept.	25.8	16.2	48.4	8.0	20
Oct.	37.8	17.3	137	28	19

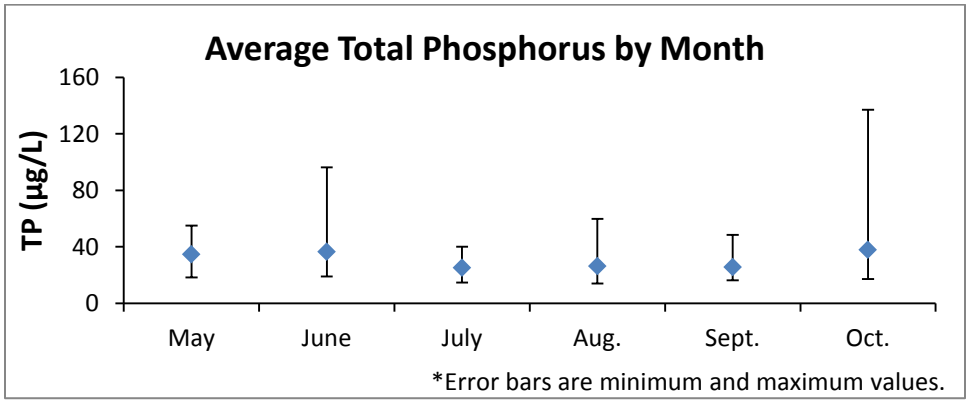

Figure 9. Monthly average total phosphorus at 1 meter in Echo Lake (2001, 2003-11).
Table 9. Annual average total phosphorus at 1 meter in Echo Lake (May – Oct.).

Date	Average TP (µg/L)	Min	Max	St Dev.	N
2001	31.7	18.9	94.8	22	11
2003	25.5	14.1	39.2	8.1	12
2004	33.2	17.2	59.7	12	13
2005	26.7	16.5	43.2	9.8	12
2006	22.0	15.1	32.9	5.5	12
2007	38.7	23.9	137	31	12
2008	28.6	14.8	57.2	11	12
2009	33.7	17.7	73.2	15	12
2010	39.0	18.9	77.5	18	12
2011	33.9	19.2	96.3	23	12

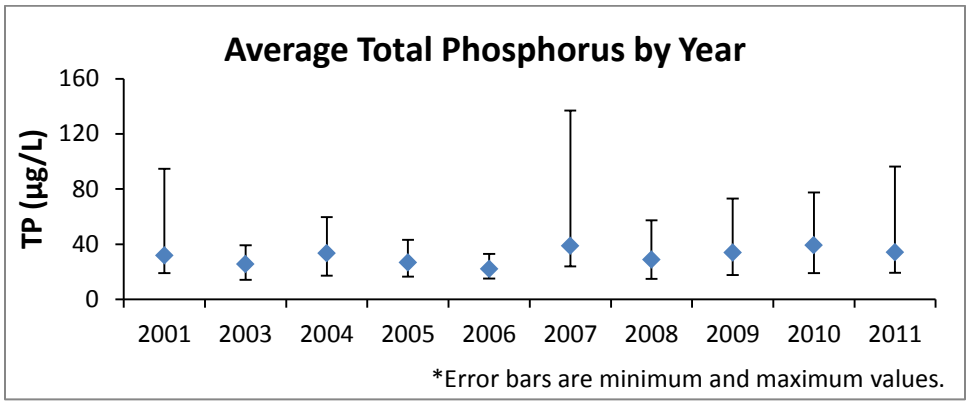

Figure 10. Annual average total phosphorus at 1 meter in Echo Lake (May – Oct.).

3.2 Chlorophyll-α and Pheophytin-α

Chlorophyll-α concentrations indicate the abundance of phytoplankton in the lake. Although different algal species contain varying amounts of chlorophyll, all species use it to complete the photosynthetic pathway and store energy. Pheophytin is a product of chlorophyll decomposition and is generally measured along with chlorophyll as an indicator of phytoplankton viability in the sample. For example, bottom sediments can contain greater amounts of pheophytin relative to chlorophyll, while actively-growing algae within surface waters will have very little pheophytin present. Pheophytin-α was detected in less than a third of samples and, therefore, is summarized only as frequency of detection. Chlorophyll-α was detected in all samples. Environmental Protection Agency (EPA) method 446.0 was used to for these analyses (EPA 1997).

Chlorophyll-α concentrations at one-meter depth ranged from 1.4 to 41.6 µg/L, with an average of 11.2 µg/L. Both chlorophyll-α and pheophytin data are summarized in Tables 11 through 13 and Figures 11 and 12.

Table 10. Monthly average chlorophyll-α at 1 meter in Echo Lake (2001, 2003-11).

Month	Average Chlorophyll-α (µg/L)	Min	Max	St Dev.	N
May	7.5	1.6	22.3	4.5	20
June	11.7	1.4	41.5	10.2	23
July	11.7	2.3	28.5	8.0	16
Aug.	10.1	1.4	29.5	7.4	22
Sept.	13.7	4.6	41.6	8.8	20
Oct.	12.8	3.2	20.2	4.8	19

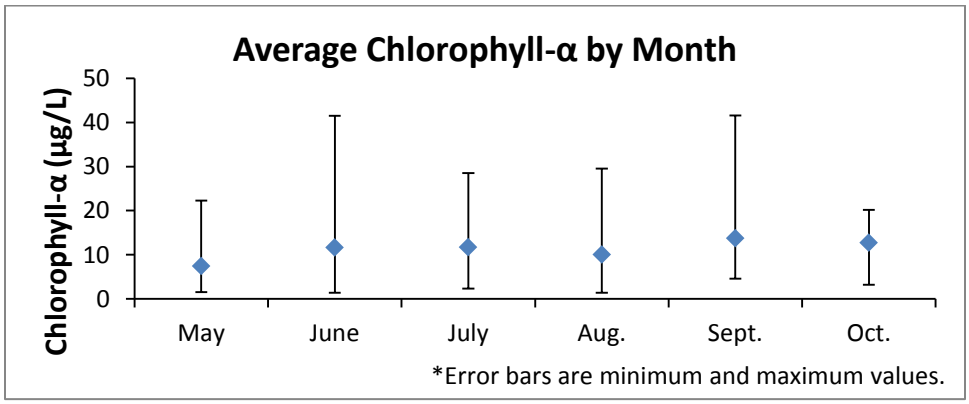

Figure 11. Monthyl average chlorophyll-α at 1 meter in Echo Lake (2001, 2003-11).

Table 11. Annual average chlorophyll-α at 1 meter in Echo Lake (May – Oct.).

Year	Average Chlorophyll-α (µg/L)	Min	Max	St Dev.	N
2001	9.9	5.9	14.9	2.5	11
2003	10.9	4.5	22.3	6.7	12
2004	13.7	3.2	29.5	9.6	13
2005	13.5	3.4	30.9	8.8	12
2006	9.6	1.6	24.8	6.4	12
2007	8.7	1.4	16.2	4.6	12
2008	8.4	1.6	20.2	5.8	12
2009	11.6	1.4	41.6	11.7	12
2010	16.7	5.2	41.5	10.4	12
2011	8.7	3.8	16.0	3.4	12

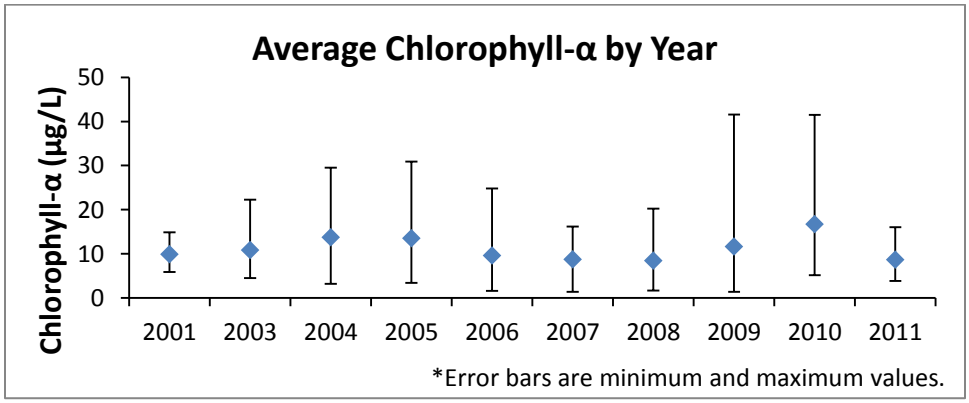

Figure 12. Annual average chlorophyll-α at 1 meter in Echo Lake (May – Oct.).

Table 12. Frequency of detection of pheophytin-α at 1 meter in Echo Lake, by month (2001, 2003-11).

Month	Frequency of Detection of Pheophytin-α
May	2/20
June	3/23
July	2/16
Aug.	8/22
Sept.	9/19
Oct.	8/19

Table 13. Frequency of detection of pheophytin-α at 1 meter in Echo Lake, by year (May – Oct.).

Year	Frequency of Detection of Pheophytin-α
2001	7/11
2003	1/11
2004	1/13
2005	2/12
2006	4/12
2007	4/12
2008	1/12
2009	2/12
2010	7/12
2011	3/12

3.3 Fecal Coliforms

Fecal coliforms are a group of intestinal bacteria present in waste from humans, other mammals (such as dogs and cats), and birds. They are routinely monitored at swimming beaches and used to predict swimming-associated human health effects. Fecal coliform levels are measured as colony forming units (CFU) per 100 mL and were analyzed using standard method 9222-D (APHA 1998). Fecal coliforms were detected in all but one sample (June 2011); this data point was included in the summary analysis at the method detection limit value (MDL =1 CFU/mL).

Fecal coliform concentrations at the swimming beach sampling station ranged between 0 and 2,800 CFU/100 mL, with an average of 66 CFU/100 mL. The maximum concentration (2,800 CU/100 mL) was more than five time greater than the next highest value, and could bias the summary results high. Without including this potential outlier, the overall average would be 48.2 CFU/100 mL. Fecal coliform data are summarized in Tables 14 and 15, and Figures 13 and 14.

Table 14. Monthly average fecal coliforms at the Echo Lake swimming beach (2001, 2003-11).

Month	Average Fecal Coliforms (CFU/100 mL)	Min	Max	St Dev.	N
May	50	1	520	115	22
June	48	1	370	76	35
July	115[a]	0	2,800	458	37
Aug.	51	3	330	71	38
Sept.	51	2	270	61	24
Oct.	--	--	--	--	--

[a] Without the single maximum value, the July average would be 40.7 CFU/100mL.

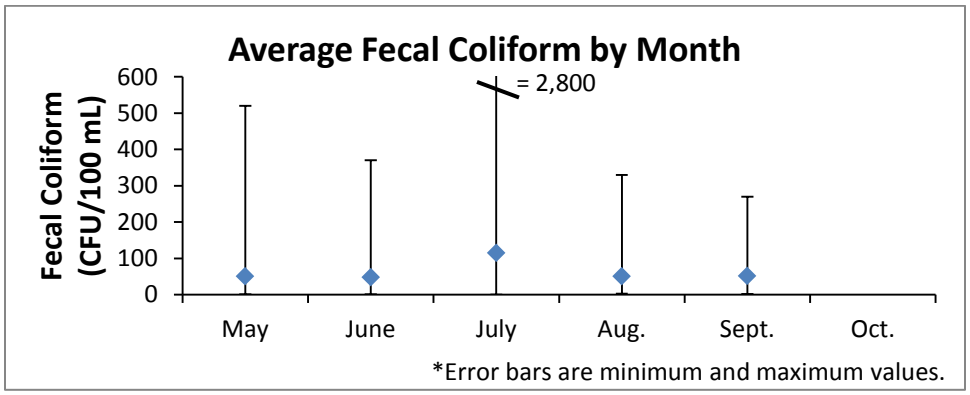

Figure 13. Monthly average fecal coliforms at the Echo Lake swimming beach (2001, 2003-11).

Table 15. Annual average fecal coliforms at the Echo Lake swimming beach (May – Oct.).

Year	Average Fecal Coliforms (CFU/100 mL)	Min	Max	St Dev.	N
2001	--	--	--	--	--
2003	--	--	--	--	--
2004	72	1	310	91	19
2005	77	22	220	59	19
2006	74	2	370	99	19
2007	15	1	44	14	19
2008	17	0	66	20	19
2009	55	2	330	76	20
2010	61	2	520	119	19
2011	141[a]	1	2,800	594	22

[a] Without the single maximum value, the 2011 average would be 14.5 CFU/100mL.

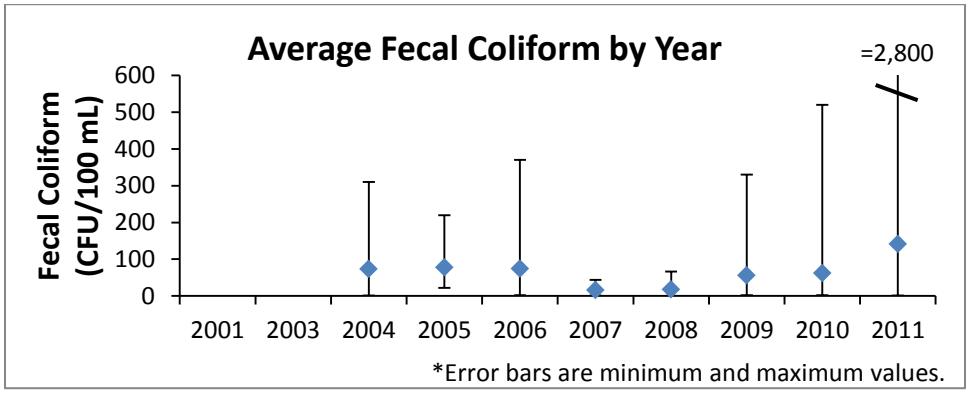

Figure 14. Annual average fecal coliforms at the Echo Lake swimming beach (May – Oct.).

4.0 WATER COLUMN PROFILE

Twice during the summer sampling season, water samples were collected from three depths at the mid-lake sampling station: one-meter depth, the middle of the water column, and one meter from the lake bottom (> 7 meters). These samples were analyzed for chlorophyll-α, pheophytin-α, total nitrogen, and total phosphorus; water temperature was also recorded. Starting in 2005, samples collected one-meter from the surface and one-meter from the lake bottom were also analyzed for ammonia nitrogen and orthophosphate phosphorus. Beginning in 2006, DO was measured in the water column at one meter intervals. Data for the water column profile provides information about how temperature, nutrients, and other variables differ at depth.

Findings for all data are summarized in Tables 16 through 18 below, using a graded gray-scale. Intervals of shading were divided equally between the minimum and maximum. Lighter shading indicates relatively low temperatures and concentrations, and darker shading indicates relatively high temperatures and concentrations based on the dataset. Sample values below the MDL are indicated by red text and report the value of the detection limit.

Temperature data indicate that thermal stratification is generally present from May through August/September (Table 16a). Nutrient levels in the deeper water samples are occasionally elevated relative to the 1 meter depth samples. Dissolved oxygen (DO) data also suggest the hypolimnion (the lower, cooler layer of water) generally becomes anoxic (DO <0.5 mg/L) from July through August (Table 17). Anoxic conditions facilitate the release of phosphorus from bottom sediments, resulting in higher total phosphorus and orthophosphate concentrations (Tables 16b and 16c). Higher ammonia concentrations in the deep water samples also reflect the anoxic conditions (Table 16d). Total nitrogen concentrations were also generally higher in deep water samples (Table 16e). Additionally, chlorophyll-α profile data indicate that algae are present in the water column, but relative concentrations by depth are varied (Table 16f). Pheophytin-α is summarized by frequency of detection (Table 18).

Table 16. Echo Lake water column profile results: a) water temperature, b) total phosphorus, c) orthophosphate phosphorus, d) ammonia nitrogen, e) total nitrogen, f) chlorophyll-α. Shading ranges from darkest for maximum value to lightest for minimum value. Red text indicates non-detect results.

Water Temperature (°C) **(a)**

	2001		2003		2004		2005		2006		2007	
Depth	**June**	**Aug.**	**May**	**Sept.**	**May**	**Aug.**	**May**	**Aug.**	**May**	**Aug.**	**May**	**Aug.**
1 m	17.5	22	17	22	21	23	15.9	21.5	18.5	22.5	16.5	20.7
Mid	15.5	19.5	15	20	17	20	14.4	21.4	--	20.7	15.5	20.5
> 7 m	7	8	10	9	8	9	8.5	9.7	7	10.3	10	12.4

	2008		2009		2010		2011	
Depth	**May**	**Aug.**	**May**	**Sept.**	**May**	**Aug.**	**May**	**Aug.**
1 m	18.5	20.5	18.2	22	15.3	20.5	15.2	21.8
Mid	14.5	20.5	15	19	15.3	20.5	15	21.8
> 7 m	8	10.5	8.3	8	9.7	10	9	9.6

Total Phosphorus (µg/L) **(b)**

	2001		2003		2004		2005		2006		2007	
Depth	**June**	**Aug.**	**May**	**Sept.**	**May**	**Aug.**	**May**	**Aug.**	**May**	**Aug.**	**May**	**Aug.**
1 m	25	21	29	27	36	30	43	28	18	25	26	29
Mid	41	21	35	29	52	20	52	53	29	24	29	30
> 7 m	377	566	88	946	339	709	357	390	267	850	55	1,050

	2008		2009		2010		2011	
Depth	**May**	**Aug.**	**May**	**Sept.**	**May**	**Aug.**	**May**	**Aug.**
1 m	21	35	21	48	55	27	53	22
Mid	28	35	26	21	27	48	50	60
> 7 m	308	673	190	478	103	431	76	437

Orthophosphate Phosphorus (µg/L) **(c)**

	2005		2006		2007		2008		2009		2010		2011	
Depth	**May**	**Aug.**	**May**	**Aug.**	**May**	**Aug.**	**May**	**Aug.**	**May**	**Sept.**	**May**	**Aug.**	**May**	**Aug.**
1 m	8.02	2	2	2	3.8	2	2	2	2	3	7.5	2.2	10.5	2
> 7 m	195	417	209	824	3.4	181	164	618	131	193	74.6	110	60.1	81.9

Ammonia Nitrogen (µg/L) **(d)**

	2005		2006		2007		2008		2009		2010		2011	
Depth	**May**	**Aug.**	**May**	**Aug.**	**May**	**Aug.**	**May**	**Aug.**	**May**	**Sept.**	**May**	**Aug.**	**May**	**Aug.**
1 m	134	10	44	25	10	10	21	10	18	5	10	5	6	5
> 7 m	1,070	1,350	746	2,400	10	2,250	729	1,580	603	1,180	323	867	173	608

Total Nitrogen (µg/L) **(e)**

	2001		2003		2004		2005		2006		2007	
Depth	**June**	**Aug.**	**May**	**Sept.**	**May**	**Aug.**	**May**	**Aug.**	**May**	**Aug.**	**May**	**Aug.**
1 m	666	480	598	574	657	879	926	568	494	541	455	478
Mid	869	444	654	462	633	460	848	739	511	613	534	478
> 7 m	1,750	2,910	1,100	3,170	1,390	2,810	1,650	1,790	1,240	3,030	544	2,560

	2008		2009		2010		2011	
Depth	**May**	**Aug.**	**May**	**Sept.**	**May**	**Aug.**	**May**	**Aug.**
1 m	480	496	503	1,440	523	712	560	540
Mid	507	470	491	588	255	815	503	688
> 7 m	1,020	1,820	920	1,340	784	1,260	718	1,060

Chlorophyll-α (µg/L) **(f)**

	2001		2003		2004		2005		2006		2007	
Depth	**June**	**Aug.**	**May**	**Sept.**	**May**	**Aug.**	**May**	**Aug.**	**May**	**Aug.**	**May**	**Aug.**
1 m	10.2	11.7	9.9	20.9	6.3	29.5	6.4	16.1	1.6	3.7	8.4	1.4
Mid	18.5	16.2	13.8	10.4	7.7	3.4	5.9	71.7	3.1	14.5	10.6	9.6
> 7 m	--	--	4.2	46.1	9.8	--	5.3	18.2	5.2	34.8	12.6	36.2

	2008		2009		2010		2011	
Depth	**May**	**Aug.**	**May**	**Sept.**	**May**	**Aug.**	**May**	**Aug.**
1 m	1.6	10.4	2.3	41.6	8.4	16.4	11.4	8.2
Mid	3.9	26.7	5.6	2.7	10	18.7	3.9	6.4
> 7 m	7.3	17.9	1	16.4	6.5	46.5	2.2	32.8

Table 17. Echo Lake water column profile results for average dissolved oxygen. Shading ranges from darkest for maximum value to lightest for minimum value.

Average Dissolved Oxygen (mg/L) 2006-2011						
Depth	**May**	**June**	**July**	**Aug.**	**Sept.**	**Oct.**
Surface	8.9	9.1	5.8	8.6	6.3	6.3
1 m	9.1	9.2	6.0	8.3	6.3	6.3
2 m	9.2	9.9	6.2	7.8	6.4	6.1
3 m	8.7	9.4	6.3	7.2	6.1	6.2
4 m	8.7	8.7	6.0	6.8	5.2	6.1
5 m	6.5	5.4	3.6	3.2	3.6	6.1
6 m	4.4	2.0	0.8	1.3	1.6	5.0
7 m	3.3	1.1	0.2	0.2	0.1	3.1
Sample # per depth	7	12	8	11	9	9

Table 18. Detections of pheophytin-α in Echo Lake water column profile.

Pheophytin-α Detections												
	2001		2003		2004		2005		2006		2007	
Depth	**June**	**Aug.**	**May**	**Sept.**	**May**	**Aug.**	**May**	**Aug.**	**May**	**Aug.**	**May**	**Aug.**
1 m	✓	ND	ND	--	ND	ND	ND	✓	ND	ND	ND	ND
Mid	✓	✓	ND	✓	ND	ND	ND	ND	✓	ND	ND	✓
> 7 m	--	--	✓	--	--	--	ND	--	✓	--	ND	--

	2008		2009		2010		2011	
Depth	**May**	**Aug.**	**May**	**Sept.**	**May**	**Aug.**	**May**	**Aug.**
1 m	ND	ND	ND	ND	ND	✓	ND	✓
Mid	ND	✓	✓	✓	ND	✓	ND	✓
> 7 m	✓	✓	✓	--	ND	ND	✓	--

ND Non detect
✓ Detect
-- Not sampled or not analyzed

5.0 QUALITY CONTROL

To validate the data presented in this report, sample holding times, quality control (QC) samples, and data anomaly forms (DAFs) were reviewed[3]. Raw data with laboratory flags, and data validation values and qualifiers (in red) are presented in Appendix A. The batch reports, QC reports, and DAFs associated with this dataset will be included as an appendix to the final report. During data validation, results below the MDL (laboratory flag "<MDL") were reported at the MDL value and given a "U" flag indicating non-detects. Results below the reporting detection limit (laboratory flag "<RDL") were reported with a "J" flag indicating estimated values. All "J" flags were included in the results presented in Sections 2.0 through 4.0. The results of this data validation are summarized below and Table 19 summarizes the data validation qualifiers applied for each parameter.

Field observations (Secchi depth, water temperature, dissolved oxygen) did not include QC samples and were reported with a "J" flag indicating they should be considered estimates. Occasionally, field observations were not provided.

All total nitrogen and total phosphorus laboratory workgroups included at least one method blank, matrix spike, spike blank, and laboratory duplicate for each parameter. All but one workgroup also included at least one laboratory control sample. All laboratory workgroups evaluated accuracy using method blanks, laboratory control samples, spike blanks, and matrix spikes, and precision using laboratory duplicates. For phosphorus, 14 laboratory duplicate results were outside control limits, but none of these were performed on samples within this dataset. All other QC sample results were within control limits. A DAF described possible matrix interference for total phosphorus in one sample, and the sample result was qualified with a "J" flag and considered an estimate (Appendix A). No other sample results were qualified for these parameters.

All chlorophyll-α and pheophytin-α laboratory workgroups included at least one method blank and one laboratory duplicate for both analytes and either a check standard or a laboratory control standard for chlorophyll-α. All QC sample results were within control limits except nine check standards and nine laboratory duplicates. Check standards apply to chlorophyll-α and pheophytin-α; therefore results for samples associated with the check standards outside QC limits were validated with "J" flags and considered estimates with high or low bias, as appropriate, for both parameters. Of the nine chlorophyll-α laboratory duplicates outside control limits, only one was performed on a sample within this dataset. Therefore, only this sample result was validated with a "J" flag and considered an estimate with unknown bias. For eight workgroups, DAFs described data quality issues from matrix interference, which necessitates an alternative calculation method and can result in biased high values for chlorophyll-α because it assumes no pheophytin-α is present. Detected chlorophyll-α results from samples associated with these workgroups were validated with "J" flags and considered estimates with high bias. Pheophytin-α was either reported as "<MDL" or not reported for these samples due to the assumptions of the alternative

[3] Prior to 2007, DAFs were not always available electronically. For this reason, a comprehensive set of DAFs was not available. Older DAFs were retrieved when a data anomaly was suggested by the QC reports or from laboratory flagging. It is standard protocol for the laboratory to flag data if a data anomaly exists, and so the data validation should cover all QC issues for this dataset.

calculation; these missing results were identified with "R" flags (rejected) in the data validation. Holding time was exceeded for two samples, and results for both parameters were validated with "J" flags or "UJ" flags (if <MDL) and considered estimates or estimated non-detects, respectively (Appendix A).

Quality control samples for fecal coliforms include positive controls, negative controls, and blanks before and after filtration. These QC samples are not required for each workgroup, but must be analyzed at least once a day. For workgroups without QC samples, a control chart provided by the KCEL was consulted to verify that QC samples were analyzed with daily frequency, and were within control limits. The QC requirements were satisfied for these samples. Laboratory duplicates must be performed for at least 5% of the project samples. Four laboratory duplicate results were outside control limits, but none were associated with samples from this dataset. All other QC sample results were within control limits.

All orthophosphate phosphorus workgroups included at least one method blank, laboratory control sample, matrix spike, spike blank, and laboratory duplicate. All QC sample results were within control limits. Holding times prior to filtration were exceeded for 14 samples; two were also frozen prior to analysis, which violates the sample handling prescribed in the method. These results were validated with "J" flags or "UJ" flags (if <MDL) and considered estimates or estimated non-detections, respectively. Additionally, DAFs described possible matrix interference for orthophosphate phosphorus in two samples. Results from these samples were validated with "J" flags and considered estimates.

All ammonium nitrogen laboratory workgroups included at least one method blank, laboratory control sample, matrix spike, spike blank, and laboratory duplicate. Ammonium nitrogen was detected in one method blank at a concentration within five times the concentration detected in the sample associated with this workgroup. Since both concentrations were less than the RDL, the sample result was validated with a "U" flag and considered non-detect at the RDL value[4]. All other QC sample results were within control limits. Holding times prior to filtration were exceeded for two samples, and these results were validated with "J" flags or "UJ" flags (if <MDL) and considered estimates.

Table 19. Data validation qualifier summary for laboratory analyses.

Parameter	Total # of Samples	"U" flag	"J" flag	"UJ" flag	"R" flag
Total nitrogen	161	0	0	0	0
Total phosphorus	161	0	1	0	0
Chlorophyll-α	157	0	26	0	0
Pheophytin-α	157	93	37	8	8
Fecal coliforms	156	1	0	0	0
Orthophosphate P	30	4	16	4	0
Ammonia N	28	7	4	2	0

[4] Since there are no EPA functional guidelines available for nutrients, this decision was based on best professional judgement and the guidelines for inorganic and organic contaminants.

6.0 NEXT STEPS

The data summarized in this technical memorandum represent water quality conditions in Echo Lake prior to installation of stormwater treatment and control features along the Aurora Corridor in Shoreline, Washington, where highway, commercial and residential stormwater is received by Echo Lake. The final Monitoring Stormwater Retrofit in the Echo Lake Drainage Basin – RSMP Effectiveness Study report will compare the baseline water quality (2001—2011, presented here), to water quality data collected during and after the stormwater retrofit (2012-2016). This comparison is intended to complement the assessment of effectiveness of individual treatment features in the basin.

While there is an interest in any impact this retrofit may have on the receiving water body, several factors may confound this analysis including:

- The area receiving stormwater treatment (about 3 acres) is relatively small compared to the overall drainage area of the basin (215 acres),
- Only the mid-lake and swimming beach sampling locations are considered, which may not be representative of the whole lake,
- A limited number of post-treatment samples will be collected within the timeframe of this effectiveness study. The limited data set inhibits robust trend analysis, and
- There are other influences to water quality that are not tied to stormwater inputs (e.g., nutrient cycling, weather anomalies) that are currently not well understood.

Therefore, the goal of the effectiveness study is not to establish a causal link between changes in stormwater infrastructure and water quality in the receiving water body, but to leverage existing data to enhance the discussion of how water quality may be affected by stormwater infrastructure changes in the basin.

7.0 REFERENCES

APHA 1998. Standard Methods for the Examination of Water and Wastewater, 20th Edition. American Public Health Association. Washington, D.C.

EPA 1997. Method 446.0, Revision 1.2: In Vitro Determination of Chlorophylls a, b, c1 + c2 and Pheopigments in Marine and Freshwater Algae by Visible Spectrophotometry. EPA No. EPA-600-R-97-072. United States Environmental Protection Agency, Office of Water. Washington, D.C.

Appendix A:
Data Validation Results

Appendix A: Data Validation Results

Sample Information, Unvalidated Results

KEY:

A764 = Mid-lake Water Quality Monitoring Station; A764SB = Swimming Beach Station; <MDL = less than method detection limit; <RDL = less than reporting detection limit;
H = hold time criteria not met; B = detected in method blank within 5x the sample concentration; SH = sample handling criteria not met; E = estimated value; TA = text available

Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764	5/24/2005	1	WG80426	L35437-16	SM4500-NH3-G (03-03-012-003)	5/24/2005	Ammonia Nitrogen	0.134	mg/L		0.01	0.02
A764	5/24/2005	8	WG80426	L35437-18	SM4500-NH3-G (03-03-012-003)	5/26/2005	Ammonia Nitrogen	1.07	mg/L		0.05	0.1
A764	8/30/2005	1	WG82000	L36364-16	SM4500-NH3-G (03-03-012-003)	8/31/2005	Ammonia Nitrogen		mg/L	<MDL	0.01	0.02
A764	8/30/2005	7	WG82000	L36364-18	SM4500-NH3-G (03-03-012-003)	8/31/2005	Ammonia Nitrogen	1.35	mg/L		0.1	0.2
A764	5/22/2006	1	WG85844	L38754-13	SM4500-NH3-G (03-03-012-003)	5/24/2006	Ammonia Nitrogen	0.0437	mg/L		0.01	0.02
A764	5/22/2006	8.5	WG85844	L38754-15	SM4500-NH3-G (03-03-012-003)	5/24/2006	Ammonia Nitrogen	0.746	mg/L		0.1	0.2
A764	8/28/2006	1	WG87712	L39947-13	SM4500-NH3-G (03-03-012-003)	8/30/2006	Ammonia Nitrogen	0.025	mg/L		0.01	0.02
A764	8/28/2006	8	WG87712	L39947-15	SM4500-NH3-G (03-03-012-003)	8/30/2006	Ammonia Nitrogen	2.4	mg/L		0.1	0.2
A764	5/21/2007	1	WG91984	L42436-13	SM4500-NH3-G (03-03-012-004)	6/19/2007	Ammonia Nitrogen		mg/L	<MDL,H	0.01	0.02
A764	5/21/2007	7	WG91984	L42436-15	SM4500-NH3-G (03-03-012-004)	6/19/2007	Ammonia Nitrogen		mg/L	<MDL,H	0.01	0.02
A764	8/27/2007	1	WG93241	L43422-13	SM4500-NH3-G (03-03-012-004)	9/4/2007	Ammonia Nitrogen		mg/L	<MDL	0.01	0.02
A764	8/27/2007	7	WG93241	L43422-15	SM4500-NH3-G (03-03-012-004)	9/5/2007	Ammonia Nitrogen	2.25	mg/L		0.25	0.5
A764	5/19/2008	1	WG96665	L45478-14	SM4500-NH3-G (330V4)	5/29/2008	Ammonia Nitrogen	0.0205	mg/L		0.01	0.02
A764	5/19/2008	7	WG96665	L45478-16	SM4500-NH3-G (330V4)	5/21/2008	Ammonia Nitrogen	0.729	mg/L		0.05	0.1
A764	8/25/2008	1	WG98403	L46170-14	SM4500-NH3-G (330V4)	8/27/2008	Ammonia Nitrogen		mg/L	<MDL	0.01	0.02
A764	8/25/2008	7	WG98403	L46170-16	SM4500-NH3-G (330V4)	8/27/2008	Ammonia Nitrogen	1.58	mg/L		0.1	0.2
A764	5/18/2009	1	WG102274	L47929-11	KEROUEL & AMINOT 1997	5/26/2009	Ammonia Nitrogen	0.0177	mg/L	H	0.005	0.01
A764	5/18/2009	7	WG102274	L47929-13	KEROUEL & AMINOT 1997	5/26/2009	Ammonia Nitrogen	0.603	mg/L	H	0.05	0.1
A764	9/1/2009	1	WG104519	L48771-11	KEROUEL & AMINOT 1997	9/2/2009	Ammonia Nitrogen		mg/L	<MDL	0.005	0.01
A764	9/1/2009	7	WG104519	L48771-13	KEROUEL & AMINOT 1997	9/2/2009	Ammonia Nitrogen	1.18	mg/L		0.05	0.1
A764	5/24/2010	1	WG109350	L50716-10	KEROUEL & AMINOT 1997	5/25/2010	Ammonia Nitrogen	0.0075	mg/L	<RDL,B	0.005	0.01
A764	5/24/2010	7	WG109350	L50716-12	KEROUEL & AMINOT 1997	5/25/2010	Ammonia Nitrogen	0.323	mg/L		0.005	0.01
A764	8/23/2010	1	WG110932	L51305-10	KEROUEL & AMINOT 1997	8/24/2010	Ammonia Nitrogen		mg/L	<MDL	0.005	0.01
A764	8/23/2010	7	WG110932	L51305-12	KEROUEL & AMINOT 1997	8/24/2010	Ammonia Nitrogen	0.867	mg/L		0.05	0.1
A764	5/23/2011	1	WG115536	L53066-10	KEROUEL & AMINOT 1997	6/1/2011	Ammonia Nitrogen	0.0062	mg/L	<RDL,H,SH	0.005	0.01
A764	5/23/2011	7	WG115536	L53066-12	KEROUEL & AMINOT 1997	6/1/2011	Ammonia Nitrogen	0.173	mg/L	H,SH	0.005	0.01
A764	8/22/2011	1	WG117130	L53787-10	KEROUEL & AMINOT 1997	8/24/2011	Ammonia Nitrogen		mg/L	<MDL	0.005	0.01
A764	8/22/2011	7	WG117130	L53787-12	KEROUEL & AMINOT 1997	8/24/2011	Ammonia Nitrogen	0.608	mg/L		0.025	0.05
A764	5/6/2001	1	WG55325	L20526-36	EPA446.0 (03-02-002-002)	5/24/2001	Chlorophyll a	6.9	µg/L		0.15	0.3
A764	5/21/2001	1	WG55674	L20527-36	EPA446.0 (03-02-002-002)	6/13/2001	Chlorophyll a	8.73	µg/L		0.15	0.3
A764	6/3/2001	1	WG55702	L20786-36	EPA446.0 (03-02-002-002)	6/15/2001	Chlorophyll a	14.9	µg/L		0.15	0.3
A764	6/17/2001	1	WG55965	L21071-101	EPA446.0 (03-02-002-002)	6/29/2001	Chlorophyll a	10.2	µg/L		0.15	0.3
A764	6/17/2001	4	WG55965	L21071-102	EPA446.0 (03-02-002-002)	6/29/2001	Chlorophyll a	18.5	µg/L		0.15	0.3

Appendix A: Data Validation Results

Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764	7/30/2001	1	WG56702	L21435-36	EPA446.0 (03-02-002-002)	8/10/2001	Chlorophyll a	8.75	µg/L		0.15	0.3
A764	8/13/2001	1	WG56988	L21609-36	EPA446.0 (03-02-002-002)	8/30/2001	Chlorophyll a	5.89	µg/L		0.15	0.3
A764	8/27/2001	1	WG57471	L21709-101	EPA446.0 (03-02-002-002)	9/7/2001	Chlorophyll a	11.7	µg/L		0.15	0.3
A764	8/27/2001	4	WG57471	L21709-102	EPA446.0 (03-02-002-002)	9/7/2001	Chlorophyll a	16.2	µg/L		0.15	0.3
A764	9/10/2001	1	WG57616	L21809-36	EPA446.0 (03-02-002-002)	10/4/2001	Chlorophyll a	11.3	µg/L		0.15	0.3
A764	9/24/2001	1	WG57829	L21824-36	EPA446.0 (03-02-002-002)	10/15/2001	Chlorophyll a	11.9	µg/L		0.15	0.3
A764	10/8/2001	1	WG58136	L22103-36	EPA446.0 (03-02-002-002)	10/31/2001	Chlorophyll a	9.75	µg/L		0.15	0.3
A764	10/22/2001	1	WG58392	L22234-36	EPA446.0 (03-02-002-002)	11/19/2001	Chlorophyll a	8.72	µg/L		0.15	0.3
A764	5/4/2003	1	WG68663	L27871-53	EPA446.0 (03-02-002S-003)	5/8/2003	Chlorophyll a	22.3	µg/L		1	2
A764	5/18/2003	1	WG68984	L28143-38	EPA446.0 (03-02-002S-003)	5/21/2003	Chlorophyll a	9.93	µg/L		1	2
A764	5/18/2003	3.5	WG68984	L28143-39	EPA446.0 (03-02-002S-003)	5/21/2003	Chlorophyll a	13.8	µg/L		1	2
A764	5/18/2003	7	WG68984	L28143-37	EPA446.0 (03-02-002S-003)	5/21/2003	Chlorophyll a	4.17	µg/L		1	2
A764	6/1/2003	1	WG69189	L28276-51	EPA446.0 (03-02-002S-003)	6/9/2003	Chlorophyll a	21.2	µg/L		0.83	1.67
A764	6/16/2003	1	WG69437	L28429-51	EPA446.0 (03-02-002S-003)	6/23/2003	Chlorophyll a	4.61	µg/L		0.63	1.25
A764	6/29/2003	1	WG69636	L28533-51	EPA446.0 (03-02-002S-003)	7/3/2003	Chlorophyll a	8.41	µg/L		0.63	1.25
A764	7/13/2003	1	WG69831	L28694-51	EPA446.0 (03-02-002S-003)	7/21/2003	Chlorophyll a	6.14	µg/L		0.83	1.67
A764	7/27/2003	1	WG70103	L28809-50	EPA446.0 (03-02-002S-003)	8/7/2003	Chlorophyll a	4.49	µg/L		1	2
A764	8/10/2003	1	WG70334	L29054-51	EPA446.0 (03-02-002S-003)	8/15/2003	Chlorophyll a	6.51	µg/L		0.67	1.33
A764	8/24/2003	1	WG70556	L29147-51	EPA446.0 (03-02-002S-003)	8/29/2003	Chlorophyll a	7.08	µg/L		0.83	1.67
A764	9/8/2003	1	WG70831	L29305-37	EPA446.0 (03-02-002S-003)	9/15/2003	Chlorophyll a	20.9	µg/L	E	1.3	2.5
A764	9/8/2003	4	WG70831	L29305-38	EPA446.0 (03-02-002S-003)	9/15/2003	Chlorophyll a	10.4	µg/L		1.7	3.33
A764	9/8/2003	8.5	WG70833	L29305-39	EPA446.0 (03-02-002S-003)	9/18/2003	Chlorophyll a	46.1	µg/L	E	3.3	6.67
A764	10/6/2003	1	WG71313	L29664-51	EPA446.0 (03-02-002S-003)	10/13/2003	Chlorophyll a	8.17	µg/L		1	2
A764	10/19/2003	1	WG71623	L29775-51	EPA446.0 (03-02-002S-003)	10/30/2003	Chlorophyll a	10.6	µg/L	H	1	2
A764	5/10/2004	1	WG74617	L31727-49	EPA446.0 (03-02-002S-003)	5/21/2004	Chlorophyll a	10.1	µg/L		1	2
A764	5/24/2004	1	WG74963	L31830-37	EPA446.0 (03-02-002S-003)	6/11/2004	Chlorophyll a	6.25	µg/L		1	2
A764	5/24/2004	4	WG74963	L31830-38	EPA446.0 (03-02-002S-003)	6/11/2004	Chlorophyll a	7.69	µg/L		1	2
A764	5/24/2004	8.5	WG74963	L31830-39	EPA446.0 (03-02-002S-003)	6/11/2004	Chlorophyll a	9.75	µg/L	E	2.5	5
A764	6/7/2004	1	WG75002	L31873-13	EPA446.0 (03-02-002S-003)	6/25/2004	Chlorophyll a	14.3	µg/L		1	2
A764	6/21/2004	1	WG75413	L31999-13	EPA446.0 (03-02-002S-003)	7/8/2004	Chlorophyll a	11.9	µg/L		1	2
A764	7/6/2004	1	WG75491	L32160-13	EPA446.0 (03-02-002S-003)	7/14/2004	Chlorophyll a	26.1	µg/L		1	2
A764	7/19/2004	1	WG75538	L32163-13	EPA446.0 (03-02-002S-003)	8/11/2004	Chlorophyll a	12.5	µg/L		1	2
A764	8/2/2004	1	WG76161	L32305-13	EPA446.0 (03-02-002S-003)	8/12/2004	Chlorophyll a	5.61	µg/L		2.5	5
A764	8/16/2004	1	WG76250	L32486-13	EPA446.0 (03-02-002S-003)	9/3/2004	Chlorophyll a	3.68	µg/L	H	1	2
A764	8/30/2004	1	WG76269	L32658-34	EPA446.0 (03-02-002S-003)	9/8/2004	Chlorophyll a	29.5	µg/L		2	4
A764	8/30/2004	4	WG76269	L32658-35	EPA446.0 (03-02-002S-003)	9/8/2004	Chlorophyll a	3.36	µg/L		1	2
A764	9/13/2004	1	WG76496	L32922-13	EPA446.0 (03-02-002S-003)	10/1/2004	Chlorophyll a	28.6	µg/L		1.4	2.86
A764	9/27/2004	1	WG76762	L33147-13	EPA446.0 (03-02-002S-003)	10/8/2004	Chlorophyll a	21.3	µg/L		1	2

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Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764	10/11/2004	1	WG77095	L33250-13	EPA446.0 (03-02-002S-003)	10/22/2004	Chlorophyll a	5.29	µg/L		1	2
A764	10/25/2004	1	WG77339	L33323-13	EPA446.0 (03-02-002S-003)	11/12/2004	Chlorophyll a	3.2	µg/L		0.63	1.25
A764	5/12/2005	1	WG80166	L35301-16	EPA446.0 (03-02-002S-003)	5/25/2005	Chlorophyll a	8.48	µg/L		0.57	1.14
A764	5/24/2005	1	WG80455	L35437-16	EPA446.0 (03-02-002S-003)	6/2/2005	Chlorophyll a	6.35	µg/L		1	2
A764	5/24/2005	4	WG80455	L35437-17	EPA446.0 (03-02-002S-003)	6/2/2005	Chlorophyll a	5.86	µg/L		1	2
A764	5/24/2005	8	WG80455	L35437-18	EPA446.0 (03-02-002S-003)	6/2/2005	Chlorophyll a	5.27	µg/L	E	2	4
A764	6/7/2005	1	WG80713	L35546-16	EPA446.0 (03-02-002S-003)	6/17/2005	Chlorophyll a	30.9	µg/L		0.67	1.33
A764	6/20/2005	1	WG80886	L35688-16	EPA446.0 (03-02-002S-003)	7/5/2005	Chlorophyll a	5.02	µg/L		1	2
A764	7/12/2005	1	WG81176	L35782-16	EPA446.0 (03-02-002S-003)	7/22/2005	Chlorophyll a	28.5	µg/L		1.3	2.5
A764	8/2/2005	1	WG81482	L35958-16	EPA446.0 (03-02-002S-003)	8/22/2005	Chlorophyll a	3.41	µg/L		0.91	1.82
A764	8/16/2005	1	WG81705	L36165-16	EPA446.0 (03-02-002S-003)	8/25/2005	Chlorophyll a	9.62	µg/L		1	2
A764	8/30/2005	1	WG82290	L36364-16	EPA446.0 (03-02-002S-003)	9/16/2005	Chlorophyll a	16.1	µg/L		1	2
A764	8/30/2005	4	WG82290	L36364-17	EPA446.0 (03-02-002S-003)	9/16/2005	Chlorophyll a	71.7	µg/L		2	4
A764	8/30/2005	7	WG82290	L36364-18	EPA446.0 (03-02-002S-003)	9/16/2005	Chlorophyll a	18.2	µg/L	E	2	4
A764	9/13/2005	1	WG82220	L36579-16	EPA446.0 (03-02-002S-003)	10/3/2005	Chlorophyll a	12.2	µg/L		1	2
A764	9/26/2005	1	WG82438	L36683-16	EPA446.0 (03-02-002S-003)	10/17/2005	Chlorophyll a	10.7	µg/L		1	2
A764	10/11/2005	1	WG82704	L36809-16	EPA446.0 (03-02-002S-003)	11/3/2005	Chlorophyll a	11.3	µg/L		1	2
A764	10/25/2005	1	WG82906	L36852-16	EPA446.0 (03-02-002S-003)	11/15/2005	Chlorophyll a	19.7	µg/L		1.4	2.86
A764	5/8/2006	1	WG85596	L38716-5	EPA446.0 (03-02-002S-003)	5/17/2006	Chlorophyll a	6.85	µg/L		0.67	1.33
A764	5/22/2006	1	WG85862	L38754-13	EPA446.0 (03-02-002S-003)	6/2/2006	Chlorophyll a	1.56	µg/L		0.67	1.33
A764	5/22/2006	4	WG85862	L38754-14	EPA446.0 (03-02-002S-003)	6/2/2006	Chlorophyll a	3.12	µg/L		0.67	1.33
A764	5/22/2006	8.5	WG85862	L38754-15	EPA446.0 (03-02-002S-003)	6/2/2006	Chlorophyll a	5.2	µg/L		1	2
A764	6/5/2006	1	WG86052	L39048-5	EPA446.0 (03-02-002S-003)	6/12/2006	Chlorophyll a	7.42	µg/L		0.5	1
A764	6/19/2006	1	WG86314	L39303-5	EPA446.0 (03-02-002S-003)	6/27/2006	Chlorophyll a	8.06	µg/L		0.5	1
A764	7/10/2006	1	WG86657	L39467-5	EPA446.0 (03-02-002S-003)	7/17/2006	Chlorophyll a	24.8	µg/L		1	2
A764	7/31/2006	1	WG87170	L39624-5	EPA446.0 (03-02-002S-003)	8/9/2006	Chlorophyll a	12.4	µg/L		0.67	1.33
A764	8/14/2006	1	WG87415	L39739-5	EPA446.0 (03-02-002S-003)	8/18/2006	Chlorophyll a	1.82	µg/L		0.67	1.33
A764	8/28/2006	1	WG87656	L39947-13	EPA446.0 (03-02-002S-003)	9/14/2006	Chlorophyll a	3.67	µg/L		1	2
A764	8/28/2006	4	WG87656	L39947-14	EPA446.0 (03-02-002S-003)	9/14/2006	Chlorophyll a	14.5	µg/L		0.67	1.33
A764	8/28/2006	8	WG87656	L39947-15	EPA446.0 (03-02-002S-003)	9/14/2006	Chlorophyll a	34.8	µg/L		2	4
A764	9/11/2006	1	WG88020	L40041-5	EPA446.0 (03-02-002S-003)	10/4/2006	Chlorophyll a	13.6	µg/L		0.59	1.17
A764	9/25/2006	1	WG88216	L40182-5	EPA446.0 (03-02-002S-003)	10/18/2006	Chlorophyll a	9.94	µg/L		0.54	1.08
A764	10/9/2006	1	WG88514	L40413-5	EPA446.0 (03-02-002S-003)	11/1/2006	Chlorophyll a	13.1	µg/L		0.67	1.33
A764	10/23/2006	1	WG88692	L40579-5	EPA446.0 (03-02-002S-003)	11/9/2006	Chlorophyll a	12.2	µg/L		0.5	1
A764	5/7/2007	1	WG91390	L42386-6	EPA446.0 (03-02-002S-004)	5/15/2007	Chlorophyll a	5.86	µg/L		0.67	1.33
A764	5/21/2007	1	WG91614	L42436-13	EPA446.0 (03-02-002S-004)	6/13/2007	Chlorophyll a	8.4	µg/L		0.67	1.33

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Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764	5/21/2007	3	WG91614	L42436-14	EPA446.0 (03-02-002S-004)	6/13/2007	Chlorophyll a	10.6	µg/L		0.67	1.33
A764	5/21/2007	7	WG91614	L42436-15	EPA446.0 (03-02-002S-004)	6/13/2007	Chlorophyll a	12.6	µg/L		0.67	1.33
A764	6/4/2007	1	WG91835	L42706-6	EPA446.0 (03-02-002S-004)	6/27/2007	Chlorophyll a	3.65	µg/L		0.67	1.33
A764	6/18/2007	1	WG92006	L42785-6	EPA446.0 (03-02-002S-004)	7/12/2007	Chlorophyll a	5.02	µg/L		0.67	1.33
A764	7/9/2007	1	WG92280	L42956-6	EPA446.0 (03-02-002S-004)	7/25/2007	Chlorophyll a	8.01	µg/L		1	2
A764	7/30/2007	1	WG92575	L43103-6	EPA446.0 (03-02-002S-004)	8/13/2007	Chlorophyll a	12.3	µg/L		1	2
A764	8/13/2007	1	WG92825	L43253-6	EPA446.0 (03-02-002S-004)	9/4/2007	Chlorophyll a	13.1	µg/L		1	2
A764	8/27/2007	1	WG93038	L43422-13	EPA446.0 (03-02-002S-004)	9/20/2007	Chlorophyll a	1.4	µg/L	<RDL	1	2
A764	8/27/2007	3	WG93038	L43422-14	EPA446.0 (03-02-002S-004)	9/20/2007	Chlorophyll a	9.57	µg/L		0.83	1.67
A764	8/27/2007	7	WG93038	L43422-15	EPA446.0 (03-02-002S-004)	9/20/2007	Chlorophyll a	36.2	µg/L	E	2.2	4.4
A764	9/10/2007	1	WG93299	L43622-6	EPA446.0 (03-02-002S-004)	10/1/2007	Chlorophyll a	5.53	µg/L		0.51	1.02
A764	9/24/2007	1	WG93515	L43691-6	EPA446.0 (03-02-002S-004)	10/19/2007	Chlorophyll a	13.4	µg/L		1	2
A764	10/8/2007	1	WG93719	L43858-6	EPA446.0 (03-02-002S-004)	10/31/2007	Chlorophyll a	16.2	µg/L		1	2
A764	10/22/2007	1	WG93968	L44011-6	EPA446.0 (03-02-002S-004)	11/16/2007	Chlorophyll a	11.7	µg/L		1	2
A764	5/5/2008	1	WG96462	L45458-6	EPA446.0 (315V4)	5/15/2008	Chlorophyll a	4.7	µg/L		1	2
A764	5/19/2008	1	WG96655	L45478-14	EPA446.0 (315V4)	6/4/2008	Chlorophyll a	1.64	µg/L		0.5	1
A764	5/19/2008	3	WG96655	L45478-15	EPA446.0 (315V4)	6/4/2008	Chlorophyll a	3.89	µg/L		0.5	1
A764	5/19/2008	7	WG96655	L45478-16	EPA446.0 (315V4)	6/4/2008	Chlorophyll a	7.26	µg/L		1	2
A764	6/2/2008	1	WG96931	L45601-6	EPA446.0 (315V4)	6/10/2008	Chlorophyll a	7.01	µg/L		1	2
A764	6/16/2008	1	WG97151	L45687-7	EPA446.0 (315V4)	6/23/2008	Chlorophyll a	14.2	µg/L		1	2
A764	6/30/2008	1	WG97364	L45807-6	EPA446.0 (315V4)	7/7/2008	Chlorophyll a	1.77	µg/L		0.5	1
A764	7/21/2008	1	WG97658	L45924-7	EPA446.0 (315V4)	7/25/2008	Chlorophyll a	2.32	µg/L		0.5	1
A764	8/11/2008	1	WG97976	L46082-6	EPA446.0 (315V4)	8/19/2008	Chlorophyll a	6.89	µg/L		1	2
A764	8/25/2008	1	WG98399	L46170-14	EPA446.0 (315V4)	9/16/2008	Chlorophyll a	10.4	µg/L		1	2
A764	8/25/2008	3	WG98399	L46170-15	EPA446.0 (315V4)	9/16/2008	Chlorophyll a	26.7	µg/L		0.51	1.03
A764	8/25/2008	7	WG98399	L46170-16	EPA446.0 (315V4)	9/16/2008	Chlorophyll a	17.9	µg/L		1	2
A764	9/8/2008	1	WG98494	L46293-6	EPA446.0 (315V4)	9/23/2008	Chlorophyll a	11	µg/L		0.5	1
A764	9/22/2008	1	WG98792	L46428-7	EPA446.0 (315V4)	9/30/2008	Chlorophyll a	6.98	µg/L		1	2
A764	10/6/2008	1	WG98987	L46491-6	EPA446.0 (315V4)	10/22/2008	Chlorophyll a	14.2	µg/L		0.5	1
A764	10/20/2008	1	WG99249	L46648-7	EPA446.0 (315V4)	10/28/2008	Chlorophyll a	20.2	µg/L		0.5	1
A764	5/4/2009	1	WG102043	L47861-4	EPA446.0	5/27/2009	Chlorophyll a	9.38	µg/L		1	2
A764	5/18/2009	1	WG102355	L47929-11	EPA446.0	6/11/2009	Chlorophyll a	2.25	µg/L		0.51	1.01
A764	5/18/2009	3	WG102355	L47929-12	EPA446.0	6/11/2009	Chlorophyll a	5.6	µg/L		0.5	1
A764	5/18/2009	7	WG102355	L47929-13	EPA446.0	6/11/2009	Chlorophyll a	1	µg/L	<RDL	0.59	1.18
A764	6/1/2009	1	WG102633	L48073-4	EPA446.0	6/18/2009	Chlorophyll a	3.21	µg/L		0.5	1
A764	6/15/2009	1	WG102888	L48142-5	EPA446.0	7/2/2009	Chlorophyll a	5.44	µg/L		0.5	1
A764	6/29/2009	1	WG103183	L48250-4	EPA446.0	7/10/2009	Chlorophyll a	1.4	µg/L	<RDL	0.71	1.43
A764	7/13/2009	1	WG103455	L48283-4	EPA446.0	7/30/2009	Chlorophyll a	11.7	µg/L	TA	0.83	1.67

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Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764	8/3/2009	1	WG103880	L48285-5	EPA446.0	8/20/2009	Chlorophyll a	6.48	µg/L		0.71	1.43
A764	8/17/2009	1	WG104290	L48327-4	EPA446.0	9/2/2009	Chlorophyll a	25.9	µg/L		1	2
A764	9/1/2009	1	WG104551	L48771-11	EPA446.0	9/24/2009	Chlorophyll a	41.6	µg/L		1	2
A764	9/1/2009	3	WG104551	L48771-12	EPA446.0	9/24/2009	Chlorophyll a	2.71	µg/L		0.56	1.11
A764	9/1/2009	7	WG104551	L48771-13	EPA446.0	9/24/2009	Chlorophyll a	16.4	µg/L	J	1.7	3.33
A764	9/14/2009	1	WG104731	L48908-4	EPA446.0	10/1/2009	Chlorophyll a	5.48	µg/L		0.5	1
A764	9/28/2009	1	WG105024	L49004-5	EPA446.0	10/16/2009	Chlorophyll a	9.46	µg/L		0.5	1
A764	10/19/2009	1	WG105491	L49146-4	EPA446.0	11/16/2009	Chlorophyll a	17	µg/L		0.59	1.18
A764	5/10/2010	1	WG109076	L50653-4	EPA446.0	6/2/2010	Chlorophyll a	5.81	µg/L		0.53	1.06
A764	5/24/2010	1	WG109341	L50716-10	EPA446.0	6/17/2010	Chlorophyll a	8.42	µg/L	J	0.56	1.11
A764	5/24/2010	3	WG109341	L50716-11	EPA446.0	6/17/2010	Chlorophyll a	9.96	µg/L	J	0.5	1
A764	5/24/2010	7	WG109341	L50716-12	EPA446.0	6/17/2010	Chlorophyll a	6.53	µg/L	J	0.51	1.03
A764	6/7/2010	1	WG109562	L50819-4	EPA446.0	6/18/2010	Chlorophyll a	29.8	µg/L	J	0.5	1
A764	6/21/2010	1	WG109830	L50936-4	EPA446.0	7/15/2010	Chlorophyll a	41.5	µg/L	TA	1	2.06
A764	7/12/2010	1	WG110165	L51026-4	EPA446.0	8/4/2010	Chlorophyll a	11.2	µg/L	J	0.67	1.33
A764	7/26/2010	1	WG110359	L51116-4	EPA446.0	8/18/2010	Chlorophyll a	5.16	µg/L	J	1	2
A764	8/9/2010	1	WG110602	L51253-4	EPA446.0	9/1/2010	Chlorophyll a	18.9	µg/L		0.83	1.67
A764	8/23/2010	1	WG110908	L51305-10	EPA446.0	9/17/2010	Chlorophyll a	16.4	µg/L	J	0.83	1.67
A764	8/23/2010	3	WG110908	L51305-11	EPA446.0	9/17/2010	Chlorophyll a	18.7	µg/L	J	0.83	1.67
A764	8/23/2010	7	WG110908	L51305-12	EPA446.0	9/17/2010	Chlorophyll a	46.5	µg/L	J	1.7	3.33
A764	9/13/2010	1	WG111254	L51497-4	EPA446.0	9/22/2010	Chlorophyll a	11.1	µg/L		0.5	1
A764	9/27/2010	1	WG111532	L51640-4	EPA446.0	10/13/2010	Chlorophyll a	16.2	µg/L	J	0.5	1
A764	10/11/2010	1	WG111779	L51714-4	EPA446.0	10/21/2010	Chlorophyll a	16.7	µg/L	J	0.5	1
A764	10/25/2010	1	WG112043	L51854-4	EPA446.0	11/5/2010	Chlorophyll a	19.3	µg/L	J	1	2
A764	5/9/2011	1	WG115132	L52948-4	EPA446.0	5/18/2011	Chlorophyll a	3.8	µg/L		0.67	1.33
A764	5/23/2011	1	WG115399	L53066-10	EPA446.0	6/8/2011	Chlorophyll a	11.4	µg/L		0.5	1
A764	5/23/2011	3	WG115399	L53066-11	EPA446.0	6/8/2011	Chlorophyll a	3.89	µg/L		0.5	1
A764	5/23/2011	7	WG115399	L53066-12	EPA446.0	6/8/2011	Chlorophyll a	2.23	µg/L		0.5	1
A764	6/6/2011	1	WG115405	L53252-4	EPA446.0	6/9/2011	Chlorophyll a	11.9	µg/L		0.5	1
A764	6/20/2011	1	WG115845	L53345-4	EPA446.0	7/6/2011	Chlorophyll a	7.08	µg/L		0.52	1.04
A764	7/11/2011	1	WG116143	L53346-4	EPA446.0	7/20/2011	Chlorophyll a	7.77	µg/L		0.53	1.06
A764	7/25/2011	1	WG116421	L53563-4	EPA446.0	8/12/2011	Chlorophyll a	5.75	µg/L		0.53	1.05
A764	8/8/2011	1	WG116421	L53727-4	EPA446.0	8/12/2011	Chlorophyll a	9.48	µg/L		0.71	1.43
A764	8/22/2011	1	WG117076	L53787-10	EPA446.0	9/15/2011	Chlorophyll a	8.18	µg/L		0.63	1.25
A764	8/22/2011	3	WG117076	L53787-11	EPA446.0	9/15/2011	Chlorophyll a	6.38	µg/L		0.53	1.05

Appendix A: Data Validation Results

Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764	8/22/2011	7	WG117076	L53787-12	EPA446.0	9/15/2011	Chlorophyll a	32.8	µg/L	J	2	4
A764	9/12/2011	1	WG117348	L53928-4	EPA446.0	10/5/2011	Chlorophyll a	9.01	µg/L		0.5	1
A764	9/26/2011	1	WG117348	L54100-4	EPA446.0	10/5/2011	Chlorophyll a	4.56	µg/L		0.5	1
A764	10/10/2011	1	WG117675	L54168-4	EPA446.0	10/14/2011	Chlorophyll a	9.42	µg/L		0.67	1.33
A764	10/24/2011	1	WG118184	L54313-4	EPA446.0	11/4/2011	Chlorophyll a	16	µg/L		0.67	1.33
A764SB	5/18/2004		WG74501	L31952-25	SM-9222 D ed.17	5/20/2004	Fecal Coliform	4	CFU/100ml			
A764SB	5/25/2004		WG74591	L32031-1	SM-9222 D ed.17	4/27/2004	Fecal Coliform	1	CFU/100ml			
A764SB	6/1/2004		WG74696	L32050-1	SM-9222 D ed.17	6/3/2004	Fecal Coliform	14	CFU/100ml			
A764SB	6/8/2004		WG74797	L32098-1	SM-9222 D ed.17	6/10/2004	Fecal Coliform	9	CFU/100ml			
A764SB	6/15/2004		WG74867	L32101-1	SM-9222 D ed.17	6/17/2004	Fecal Coliform	120	CFU/100ml			
A764SB	6/22/2004		WG74994	L32196-1	SM-9222 D ed.17	6/24/2004	Fecal Coliform	38	CFU/100ml			
A764SB	6/29/2004		WG75156	L32285-1	SM-9222 D ed.17	7/1/2004	Fecal Coliform	58	CFU/100ml			
A764SB	7/6/2004		WG75227	L32329-1	SM-9222 D ed.17	7/8/2004	Fecal Coliform	53	CFU/100ml			
A764SB	7/13/2004		WG75340	L32434-1	SM-9222 D ed.17	7/15/2004	Fecal Coliform	13	CFU/100ml			
A764SB	7/20/2004		WG75437	L32436-1	SM-9222 D ed.17	7/22/2004	Fecal Coliform	7	CFU/100ml			
A764SB	7/27/2004		WG75523	L32546-1	SM-9222 D ed.17	7/29/2004	Fecal Coliform	310	CFU/100ml			
A764SB	8/3/2004		WG75692	L32619-1	SM-9222 D ed.17	8/5/2004	Fecal Coliform	16	CFU/100ml			
A764SB	8/10/2004		WG75771	L32652-1	SM-9222 D ed.17	8/12/2004	Fecal Coliform	90	CFU/100ml			
A764SB	8/17/2004		WG75925	L32669-1	SM-9222 D ed.17	8/19/2004	Fecal Coliform	190	CFU/100ml			
A764SB	8/24/2004		WG76027	L32797-1	SM-9222 D ed.17	8/26/2004	Fecal Coliform	60	CFU/100ml			
A764SB	8/31/2004		WG76180	L32830-1	SM-9222 D ed.17	9/2/2004	Fecal Coliform	11	CFU/100ml			
A764SB	9/7/2004		WG76340	L32831-1	SM-9222 D ed.17	9/9/2004	Fecal Coliform	100	CFU/100ml			
A764SB	9/14/2004		WG76420	L33186-1	SM-9222 D ed.17	9/16/2004	Fecal Coliform	270	CFU/100ml			
A764SB	9/21/2004		WG76594	L33261-1	SM-9222 D ed.17	9/23/2004	Fecal Coliform	13	CFU/100ml			
A764SB	5/17/2005		WG80275	L35552-1	SM-9222 D ed.17	5/19/2005	Fecal Coliform	25	CFU/100ml			
A764SB	5/24/2005		WG80435	L35622-1	SM-9222 D ed.17	5/26/2005	Fecal Coliform	170	CFU/100ml			
A764SB	5/31/2005		WG80536	L35694-1	SM-9222 D ed.17	6/2/2005	Fecal Coliform	57	CFU/100ml			
A764SB	6/7/2005		WG80624	L35696-1	SM-9222 D ed.17	6/9/2005	Fecal Coliform	33	CFU/100ml			
A764SB	6/14/2005		WG80741	L35765-1	SM-9222 D ed.17	6/16/2005	Fecal Coliform	220	CFU/100ml			
A764SB	6/21/2005		WG80856	L35822-1	SM-9222 D ed.17	6/23/2005	Fecal Coliform	150	CFU/100ml			
A764SB	6/28/2005		WG80957	L35903-1	SM-9222 D ed.17	6/30/2005	Fecal Coliform	180	CFU/100ml			
A764SB	7/5/2005		WG81042	L36011-1	SM-9222 D ed.17	7/7/2005	Fecal Coliform	53	CFU/100ml			
A764SB	7/12/2005		WG81160	L36083-1	SM-9222 D ed.17	7/14/2005	Fecal Coliform	56	CFU/100ml			
A764SB	7/19/2005		WG81235	L36120-1	SM-9222 D ed.17	7/21/2005	Fecal Coliform	43	CFU/100ml			
A764SB	7/26/2005		WG81345	L36178-1	SM-9222 D ed.17	7/28/2005	Fecal Coliform	100	CFU/100ml			
A764SB	8/2/2005		WG81435	L36278-1	SM-9222 D ed.17	8/4/2005	Fecal Coliform	83	CFU/100ml			
A764SB	8/9/2005		WG81528	L36354-1	SM-9222 D ed.17	8/11/2005	Fecal Coliform	24	CFU/100ml			

Appendix A: Data Validation Results

Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764SB	8/16/2005		WG81655	L36425-1	SM-9222 D ed.17	8/18/2005	Fecal Coliform	22	CFU/100ml			
A764SB	8/23/2005		WG81832	L36533-1	SM-9222 D ed.17	8/25/2005	Fecal Coliform	55	CFU/100ml			
A764SB	8/30/2005		WG81946	L36586-1	SM-9222 D ed.17	9/1/2005	Fecal Coliform	59	CFU/100ml			
A764SB	9/6/2005		WG82012	L36587-1	SM-9222 D ed.17	9/8/2005	Fecal Coliform	37	CFU/100ml			
A764SB	9/13/2005		WG82143	L36589-1	SM-9222 D ed.17	9/15/2005	Fecal Coliform	59	CFU/100ml			
A764SB	9/20/2005		WG82298	L36878-1	SM-9222 D ed.17	9/22/2005	Fecal Coliform	41	CFU/100ml			
A764SB	5/16/2006		WG85679	L39100-1	SM-9222 D ed.17	5/17/2006	Fecal Coliform	2	CFU/100ml			
A764SB	5/23/2006		WG85847	L39102-1	SM-9222 D ed.17	5/24/2006	Fecal Coliform	100	CFU/100ml			
A764SB	5/30/2006		WG85920	L39234-1	SM-9222 D ed.17	5/31/2006	Fecal Coliform	5	CFU/100ml			
A764SB	6/6/2006		WG86067	L39306-1	SM-9222 D ed.17	6/7/2006	Fecal Coliform	38	CFU/100ml			
A764SB	6/13/2006		WG86186	L39360-1	SM-9222 D ed.17	6/14/2006	Fecal Coliform	370	CFU/100ml			
A764SB	6/19/2006		WG86255	L39405-1	SM-9222 D ed.17	6/21/2006	Fecal Coliform	7	CFU/100ml			
A764SB	6/27/2006		WG86374	L39513-1	SM-9222 D ed.17	6/28/2006	Fecal Coliform	7	CFU/100ml			
A764SB	7/5/2006		WG86498	L39522-1	SM-9222 D ed.17	7/6/2006	Fecal Coliform	68	CFU/100ml			
A764SB	7/11/2006		WG86612	L39527-1	SM-9222 D ed.17	7/12/2006	Fecal Coliform	7	CFU/100ml			
A764SB	7/18/2006		WG86717	L39531-1	SM-9222 D ed.17	7/19/2006	Fecal Coliform	160	CFU/100ml			
A764SB	7/25/2006		WG86849	L39685-1	SM-9222 D ed.17	7/26/2006	Fecal Coliform	71	CFU/100ml			
A764SB	8/1/2006		WG87076	L39686-1	SM-9222 D ed.17	8/2/2006	Fecal Coliform	260	CFU/100ml			
A764SB	8/8/2006		WG87242	L39728-1	SM-9222 D ed.17	8/9/2006	Fecal Coliform	24	CFU/100ml			
A764SB	8/15/2006		WG87397	L39954-1	SM-9222 D ed.17	8/16/2006	Fecal Coliform	14	CFU/100ml			
A764SB	8/22/2006		WG87495	L40020-1	SM-9222 D ed.17	8/23/2006	Fecal Coliform	21	CFU/100ml			
A764SB	8/28/2006		WG87629	L40071-1	SM-9222 D ed.17	8/30/2006	Fecal Coliform	43	CFU/100ml			
A764SB	9/5/2006		WG87742	L40160-1	SM-9222 D ed.17	9/6/2006	Fecal Coliform	21	CFU/100ml			
A764SB	9/12/2006		WG87874	L40199-1	SM-9222 D ed.17	9/13/2006	Fecal Coliform	23	CFU/100ml			
A764SB	9/19/2006		WG87987	L40278-1	SM-9222 D ed.17	9/20/2006	Fecal Coliform	160	CFU/100ml			
A764SB	5/15/2007		WG91437	L42665-1	SM-9222 D ed.17	5/16/2007	Fecal Coliform	4	CFU/100ml			
A764SB	5/22/2007		WG91573	L42665-3	SM-9222 D ed.17	5/23/2007	Fecal Coliform	20	CFU/100ml			
A764SB	5/29/2007		WG91657	L42665-5	SM-9222 D ed.17	5/30/2007	Fecal Coliform	5	CFU/100ml			
A764SB	6/5/2007		WG91738	L42665-7	SM-9222 D ed.17	6/6/2007	Fecal Coliform	33	CFU/100ml			
A764SB	6/12/2007		WG91860	L42665-9	SM-9222 D ed.17	6/13/2007	Fecal Coliform	15	CFU/100ml			
A764SB	6/19/2007		WG91935	L42665-11	SM-9222 D ed.17	6/20/2007	Fecal Coliform	44	CFU/100ml			
A764SB	6/26/2007		WG91950	L42665-13	SM-9222 D ed.17	6/27/2007	Fecal Coliform	1	CFU/100ml			
A764SB	7/2/2007		WG92055	L42665-15	SM-9222 D ed.17	7/3/2007	Fecal Coliform	39	CFU/100ml			
A764SB	7/10/2007		WG92206	L42665-17	SM-9222 D ed.17	7/11/2007	Fecal Coliform	3	CFU/100ml			
A764SB	7/17/2007		WG92331	L42665-19	SM-9222 D ed.17	7/18/2007	Fecal Coliform	8	CFU/100ml			
A764SB	7/24/2007		WG92456	L42665-21	SM-9222 D ed.17	7/25/2007	Fecal Coliform	24	CFU/100ml			
A764SB	7/31/2007		WG92466	L42665-23	SM-9222 D ed.17	8/1/2007	Fecal Coliform	2	CFU/100ml			
A764SB	8/7/2007		WG92648	L42665-25	SM-9222 D ed.17	8/8/2007	Fecal Coliform	14	CFU/100ml			

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Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764SB	8/14/2007		WG92751	L42665-27	SM-9222 D ed.17	8/15/2007	Fecal Coliform	8	CFU/100ml			
A764SB	8/21/2007		WG92897	L42665-29	SM-9222 D ed.17	8/22/2007	Fecal Coliform	9	CFU/100ml			
A764SB	8/28/2007		WG93007	L42665-31	SM-9222 D ed.17	8/29/2007	Fecal Coliform	41	CFU/100ml			
A764SB	9/4/2007		WG93146	L42665-33	SM-9222 D ed.17	9/5/2007	Fecal Coliform	11	CFU/100ml			
A764SB	9/11/2007		WG93284	L42665-35	SM-9222 D ed.17	9/12/2007	Fecal Coliform	9	CFU/100ml			
A764SB	9/18/2007		WG93394	L42665-37	SM-9222 D ed.17	9/19/2007	Fecal Coliform	4	CFU/100ml			
A764SB	5/13/2008		WG96525	L45487-1	SM 9222D 20TH (SOP 506V1)	5/14/2008	Fecal Coliform	14	CFU/100ml			
A764SB	5/20/2008		WG96625	L45487-3	SM 9222D 20TH (SOP 506V1)	5/21/2008	Fecal Coliform	7	CFU/100ml			
A764SB	5/27/2008		WG96709	L45487-5	SM 9222D 20TH (SOP 506V1)	5/28/2008	Fecal Coliform	1	CFU/100ml			
A764SB	6/3/2008		WG96778	L45487-7	SM 9222D 20TH (SOP 506V1)	6/4/2008	Fecal Coliform	14	CFU/100ml			
A764SB	6/10/2008		WG96962	L45487-9	SM 9222D 20TH (SOP 506V1)	6/11/2008	Fecal Coliform	17	CFU/100ml			
A764SB	6/17/2008		WG97107	L45487-11	SM 9222D 20TH (SOP 506V1)	6/18/2008	Fecal Coliform	66	CFU/100ml			
A764SB	6/24/2008		WG97201	L45487-13	SM 9222D 20TH (SOP 506V1)	6/25/2008	Fecal Coliform	1	CFU/100ml			
A764SB	7/1/2008		WG97294	L45487-15	SM 9222D 20TH (SOP 506V1)	7/2/2008	Fecal Coliform	5	CFU/100ml			
A764SB	7/8/2008		WG97340	L45487-17	SM 9222D 20TH (SOP 506V1)	7/9/2008	Fecal Coliform	3	CFU/100ml			
A764SB	7/15/2008		WG97456	L45487-19	SM 9222D 20TH (SOP 506V1)	7/16/2008	Fecal Coliform	12	CFU/100ml			
A764SB	7/22/2008		WG97610	L45487-21	SM 9222D 20TH (SOP 506V1)	7/23/2008	Fecal Coliform	0	CFU/100ml			
A764SB	7/29/2008		WG97694	L45487-23	SM 9222D 20TH (SOP 506V1)	7/30/2008	Fecal Coliform	3	CFU/100ml			
A764SB	8/5/2008		WG97816	L45487-25	SM 9222D 20TH (SOP 506V1)	8/6/2008	Fecal Coliform	9	CFU/100ml			
A764SB	8/12/2008		WG97886	L45487-27	SM 9222D 20TH (SOP 506V1)	8/13/2008	Fecal Coliform	29	CFU/100ml			
A764SB	8/19/2008		WG98056	L45487-29	SM 9222D 20TH (SOP 506V1)	8/20/2008	Fecal Coliform	6	CFU/100ml			
A764SB	8/26/2008		WG98244	L45487-31	SM 9222D 20TH (SOP 506V1)	8/27/2008	Fecal Coliform	11	CFU/100ml			
A764SB	9/2/2008		WG98370	L45487-33	SM 9222D 20TH (SOP 506V1)	9/3/2008	Fecal Coliform	22	CFU/100ml			
A764SB	9/9/2008		WG98475	L45487-35	SM 9222D 20TH (SOP 506V1)	9/10/2008	Fecal Coliform	45	CFU/100ml			
A764SB	9/16/2008		WG98519	L45487-37	SM 9222D 20TH (SOP 506V1)	9/17/2008	Fecal Coliform	64	CFU/100ml			
A764SB	5/12/2009		WG102129	L47886-1	SM 9222D 20TH	5/13/2009	Fecal Coliform	12	CFU/100ml			
A764SB	5/18/2009		WG102311	L47886-3	SM 9222D 20TH	5/19/2009	Fecal Coliform	140	CFU/100ml			
A764SB	5/26/2009		WG102423	L47886-5	SM 9222D 20TH	5/27/2009	Fecal Coliform	4	CFU/100ml			
A764SB	6/2/2009		WG102592	L47886-7	SM 9222D 20TH	6/3/2009	Fecal Coliform	6	CFU/100ml			
A764SB	6/9/2009		WG102677	L47886-9	SM 9222D 20TH	6/10/2009	Fecal Coliform	38	CFU/100ml			
A764SB	6/15/2009		WG102835	L47886-11	SM 9222D 20TH	6/16/2009	Fecal Coliform	5	CFU/100ml			
A764SB	6/23/2009		WG103048	L47886-13	SM 9222D 20TH	6/24/2009	Fecal Coliform	46	CFU/100ml			
A764SB	6/29/2009		WG103144	L47886-15	SM 9222D 20TH	6/30/2009	Fecal Coliform	29	CFU/100ml			
A764SB	7/7/2009		WG103253	L47886-17	SM 9222D 20TH	7/8/2009	Fecal Coliform	12	CFU/100ml			
A764SB	7/14/2009		WG103399	L47886-19	SM 9222D 20TH	7/15/2009	Fecal Coliform	4	CFU/100ml			
A764SB	7/21/2009		WG103570	L47886-21	SM 9222D 20TH	7/22/2009	Fecal Coliform	18	CFU/100ml			
A764SB	7/28/2009		WG103682	L47886-23	SM 9222D 20TH	7/29/2009	Fecal Coliform	49	CFU/100ml			
A764SB	8/4/2009		WG103896	L47886-25	SM 9222D 20TH	8/5/2009	Fecal Coliform	330	CFU/100ml			

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Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764SB	8/11/2009		WG104010	L47886-27	SM 9222D 20TH	8/12/2009	Fecal Coliform	92	CFU/100ml			
A764SB	8/18/2009		WG104183	L47886-29	SM 9222D 20TH	8/19/2009	Fecal Coliform	44	CFU/100ml			
A764SB	8/24/2009		WG104331	L47886-31	SM 9222D 20TH	8/25/2009	Fecal Coliform	3	CFU/100ml			
A764SB	8/31/2009		WG104423	L47886-33	SM 9222D 20TH	9/1/2009	Fecal Coliform	79	CFU/100ml			
A764SB	9/8/2009		WG104538	L47886-35	SM 9222D 20TH	9/9/2009	Fecal Coliform	110	CFU/100ml			
A764SB	9/15/2009		WG104722	L47886-37	SM 9222D 20TH	9/16/2009	Fecal Coliform	2	CFU/100ml			
A764SB	9/22/2009		WG104777	L47886-39	SM 9222D 20TH	9/23/2009	Fecal Coliform	77	CFU/100ml			
A764SB	5/17/2010		WG109149	L50603-1	SM 9222D 20TH	5/18/2010	Fecal Coliform	2	CFU/100ml			
A764SB	5/24/2010		WG109254	L50603-3	SM 9222D 20TH	5/25/2010	Fecal Coliform	520	CFU/100ml			
A764SB	6/1/2010		WG109389	L50603-5	SM 9222D 20TH	6/2/2010	Fecal Coliform	37	CFU/100ml			
A764SB	6/7/2010		WG109489	L50603-7	SM 9222D 20TH	6/8/2010	Fecal Coliform	13	CFU/100ml			
A764SB	6/14/2010		WG109650	L50603-9	SM 9222D 20TH	6/15/2010	Fecal Coliform	2	CFU/100ml			
A764SB	6/21/2010		WG109767	L50603-11	SM 9222D 20TH	6/22/2010	Fecal Coliform	3	CFU/100ml			
A764SB	6/28/2010		WG109904	L50603-13	SM 9222D 20TH	6/29/2010	Fecal Coliform	25	CFU/100ml			
A764SB	7/6/2010		WG109975	L50603-15	SM 9222D 20TH	7/7/2010	Fecal Coliform	23	CFU/100ml			
A764SB	7/12/2010		WG110051	L50603-17	SM 9222D 20TH	7/13/2010	Fecal Coliform	40	CFU/100ml			
A764SB	7/19/2010		WG110116	L50603-19	SM 9222D 20TH	7/20/2010	Fecal Coliform	160	CFU/100ml			
A764SB	7/26/2010		WG110329	L50603-21	SM 9222D 20TH	7/27/2010	Fecal Coliform	11	CFU/100ml			
A764SB	8/2/2010		WG110459	L50603-23	SM 9222D 20TH	8/3/2010	Fecal Coliform	36	CFU/100ml			
A764SB	8/9/2010		WG110562	L50603-25	SM 9222D 20TH	8/10/2010	Fecal Coliform	16	CFU/100ml			
A764SB	8/16/2010		WG110683	L50603-27	SM 9222D 20TH	8/17/2010	Fecal Coliform	140	CFU/100ml			
A764SB	8/23/2010		WG110840	L50603-29	SM 9222D 20TH	8/24/2010	Fecal Coliform	27	CFU/100ml			
A764SB	8/30/2010		WG110925	L50603-31	SM 9222D 20TH	8/31/2010	Fecal Coliform	14	CFU/100ml			
A764SB	9/7/2010		WG111121	L50603-33	SM 9222D 20TH	9/8/2010	Fecal Coliform	18	CFU/100ml			
A764SB	9/13/2010		WG111177	L50603-35	SM 9222D 20TH	9/14/2010	Fecal Coliform	32	CFU/100ml			
A764SB	9/20/2010		WG111338	L50603-37	SM 9222D 20TH	9/21/2010	Fecal Coliform	49	CFU/100ml			
A764SB	5/16/2011		WG115234	L53058-1	SM 9222D 20TH	5/17/2011	Fecal Coliform	7	CFU/100ml			
A764SB	5/23/2011		WG115369	L53058-3	SM 9222D 20TH	5/24/2011	Fecal Coliform	7	CFU/100ml			
A764SB	5/31/2011		WG115481	L53058-5	SM 9222D 20TH	6/1/2011	Fecal Coliform	3	CFU/100ml			
A764SB	6/6/2011		WG115510	L53058-7	SM 9222D 20TH	6/7/2011	Fecal Coliform	17	CFU/100ml			
A764SB	6/13/2011		WG115654	L53058-9	SM 9222D 20TH	6/14/2011	Fecal Coliform	1	CFU/100ml			
A764SB	6/20/2011		WG115754	L53058-11	SM 9222D 20TH	6/21/2011	Fecal Coliform		CFU/100ml	<MDL		1
A764SB	6/27/2011		WG115950	L53058-13	SM 9222D 20TH	6/28/2011	Fecal Coliform	27	CFU/100ml			
A764SB	7/5/2011		WG116027	L53058-15	SM 9222D 20TH	7/6/2011	Fecal Coliform	2800	CFU/100ml			
A764SB	7/7/2011		WG116085	L53628-1	SM 9222D 20TH	7/8/2011	Fecal Coliform	13	CFU/100ml			
A764SB	7/7/2011		WG116085	L53628-2	SM 9222D 20TH	7/8/2011	Fecal Coliform	12	CFU/100ml			
A764SB	7/7/2011		WG116085	L53628-3	SM 9222D 20TH	7/8/2011	Fecal Coliform	7	CFU/100ml			
A764SB	7/11/2011		WG116102	L53058-17	SM 9222D 20TH	7/12/2011	Fecal Coliform	49	CFU/100ml			

Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764SB	7/18/2011		WG116263	L53058-19	SM 9222D 20TH	7/19/2011	Fecal Coliform	12	CFU/100ml			
A764SB	7/25/2011		WG116410	L53058-21	SM 9222D 20TH	7/26/2011	Fecal Coliform	16	CFU/100ml			
A764SB	8/1/2011		WG116548	L53058-23	SM 9222D 20TH	8/2/2011	Fecal Coliform	13	CFU/100ml			
A764SB	8/8/2011		WG116656	L53058-25	SM 9222D 20TH	8/9/2011	Fecal Coliform	7	CFU/100ml			
A764SB	8/15/2011		WG116795	L53058-27	SM 9222D 20TH	8/16/2011	Fecal Coliform	7	CFU/100ml			
A764SB	8/22/2011		WG116886	L53058-29	SM 9222D 20TH	8/23/2011	Fecal Coliform	10	CFU/100ml			
A764SB	8/29/2011		WG117036	L53058-31	SM 9222D 20TH	8/30/2011	Fecal Coliform	14	CFU/100ml			
A764SB	9/6/2011		WG117222	L53058-33	SM 9222D 20TH	9/7/2011	Fecal Coliform	6	CFU/100ml			
A764SB	9/12/2011		WG117315	L53058-35	SM 9222D 20TH	9/13/2011	Fecal Coliform	7	CFU/100ml			
A764SB	9/19/2011		WG117443	L53058-37	SM 9222D 20TH	9/20/2011	Fecal Coliform	55	CFU/100ml			
A764	5/24/2005	1	WG80426	L35437-16	SM4500-P-F (03-03-012-003)	5/24/2005	Orthophosphate Phosphorus	0.00802	mg/L		0.002	0.005
A764	5/24/2005	4	WG80426	L35437-17	SM4500-P-F (03-03-012-003)	5/24/2005	Orthophosphate Phosphorus	0.0192	mg/L		0.002	0.005
A764	5/24/2005	8	WG80426	L35437-18	SM4500-P-F (03-03-012-003)	5/24/2005	Orthophosphate Phosphorus	0.195	mg/L		0.002	0.005
A764	8/30/2005	1	WG82000	L36364-16	SM4500-P-F (03-03-012-003)	8/31/2005	Orthophosphate Phosphorus		mg/L	<MDL	0.002	0.005
A764	8/30/2005	4	WG82000	L36364-17	SM4500-P-F (03-03-012-003)	8/31/2005	Orthophosphate Phosphorus	0.0025	mg/L	<RDL	0.002	0.005
A764	8/30/2005	7	WG82000	L36364-18	SM4500-P-F (03-03-012-003)	8/31/2005	Orthophosphate Phosphorus	0.417	mg/L		0.02	0.05
A764	5/22/2006	1	WG85777	L38754-13	SM4500-P-F (03-03-012-003)	5/24/2006	Orthophosphate Phosphorus		mg/L	<MDL	0.002	0.005
A764	5/22/2006	8.5	WG85777	L38754-15	SM4500-P-F (03-03-012-003)	5/24/2006	Orthophosphate Phosphorus	0.209	mg/L	TA	0.002	0.005
A764	8/28/2006	1	WG88134	L39947-13	SM4500-P-F (03-03-012-003)	8/30/2006	Orthophosphate Phosphorus		mg/L	<MDL	0.002	0.005
A764	8/28/2006	8	WG88134	L39947-15	SM4500-P-F (03-03-012-003)	8/30/2006	Orthophosphate Phosphorus	0.824	mg/L	TA	0.02	0.05
A764	5/21/2007	1	WG91659	L42436-13	SM4500-P-F (03-03-012-004)	5/23/2007	Orthophosphate Phosphorus	0.0038	mg/L	<RDL	0.002	0.005
A764	5/21/2007	7	WG91659	L42436-15	SM4500-P-F (03-03-012-004)	5/23/2007	Orthophosphate Phosphorus	0.0034	mg/L	<RDL	0.002	0.005
A764	8/27/2007	1	WG93241	L43422-13	SM4500-P-F (03-03-012-004)	9/4/2007	Orthophosphate Phosphorus		mg/L	<MDL	0.002	0.005

Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764	8/27/2007	7	WG93241	L43422-15	SM4500-P-F (03-03-012-004)	9/4/2007	Orthophosphate Phosphorus	0.181	mg/L		0.01	0.025
A764	5/19/2008	1	WG96665	L45478-14	SM4500-P-F (330V4)	5/21/2008	Orthophosphate Phosphorus		mg/L	<MDL,H	0.002	0.005
A764	5/19/2008	7	WG96665	L45478-16	SM4500-P-F (330V4)	5/21/2008	Orthophosphate Phosphorus	0.164	mg/L	H	0.01	0.025
A764	8/25/2008	1	WG98403	L46170-14	SM4500-P-F (330V4)	8/27/2008	Orthophosphate Phosphorus		mg/L	<MDL,H	0.002	0.005
A764	8/25/2008	7	WG98403	L46170-16	SM4500-P-F (330V4)	8/27/2008	Orthophosphate Phosphorus	0.618	mg/L	H	0.02	0.05
A764	5/18/2009	1	WG102274	L47929-11	SM4500-P-F	5/26/2009	Orthophosphate Phosphorus		mg/L	<MDL,H	0.002	0.005
A764	5/18/2009	7	WG102274	L47929-13	SM4500-P-F	5/26/2009	Orthophosphate Phosphorus	0.131	mg/L	H	0.002	0.005
A764	9/1/2009	1	WG104519	L48771-11	SM4500-P-F	9/2/2009	Orthophosphate Phosphorus	0.003	mg/L	<RDL,H	0.002	0.005
A764	9/1/2009	7	WG104519	L48771-13	SM4500-P-F	9/2/2009	Orthophosphate Phosphorus	0.193	mg/L	H	0.02	0.05
A764	5/24/2010	1	WG109350	L50716-10	SM4500-P-F	5/25/2010	Orthophosphate Phosphorus	0.0075	mg/L	H	0.002	0.005
A764	5/24/2010	7	WG109350	L50716-12	SM4500-P-F	5/25/2010	Orthophosphate Phosphorus	0.0746	mg/L	H	0.002	0.005
A764	8/23/2010	1	WG111035	L51305-10	SM4500-P-F	9/2/2010	Orthophosphate Phosphorus	0.0022	mg/L	<RDL	0.002	0.005
A764	8/23/2010	7	WG111035	L51305-12	SM4500-P-F	9/2/2010	Orthophosphate Phosphorus	0.11	mg/L		0.02	0.05
A764	5/23/2011	1	WG115536	L53066-10	SM4500-P-F	6/1/2011	Orthophosphate Phosphorus	0.0105	mg/L	H,SH	0.002	0.005
A764	5/23/2011	7	WG115536	L53066-12	SM4500-P-F	6/1/2011	Orthophosphate Phosphorus	0.0601	mg/L	H,SH	0.002	0.005
A764	8/22/2011	1	WG117130	L53787-10	SM4500-P-F	8/24/2011	Orthophosphate Phosphorus		mg/L	<MDL,H	0.002	0.005
A764	8/22/2011	7	WG117130	L53787-12	SM4500-P-F	8/24/2011	Orthophosphate Phosphorus	0.0819	mg/L	H	0.002	0.005
A764	5/6/2001	1	WG55325	L20526-36	EPA446.0 (03-02-002-002)	5/24/2001	Pheophytin a	0.74	µg/L		0.3	0.6
A764	5/21/2001	1	WG55674	L20527-36	EPA446.0 (03-02-002-002)	6/13/2001	Pheophytin a	0.32	µg/L	<RDL	0.3	0.6
A764	6/3/2001	1	WG55702	L20786-36	EPA446.0 (03-02-002-002)	6/15/2001	Pheophytin a		µg/L	<MDL	0.3	0.6

Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764	6/17/2001	1	WG55965	L21071-101	EPA446.0 (03-02-002-002)	6/29/2001	Pheophytin a	0.47	µg/L	<RDL	0.3	0.6
A764	6/17/2001	4	WG55965	L21071-102	EPA446.0 (03-02-002-002)	6/29/2001	Pheophytin a	0.38	µg/L	<RDL	0.3	0.6
A764	7/30/2001	1	WG56702	L21435-36	EPA446.0 (03-02-002-002)	8/10/2001	Pheophytin a		µg/L	<MDL	0.3	0.6
A764	8/13/2001	1	WG56988	L21609-36	EPA446.0 (03-02-002-002)	8/30/2001	Pheophytin a		µg/L	<MDL	0.3	0.6
A764	8/27/2001	1	WG57471	L21709-101	EPA446.0 (03-02-002-002)	9/7/2001	Pheophytin a		µg/L	<MDL	0.3	0.6
A764	8/27/2001	4	WG57471	L21709-102	EPA446.0 (03-02-002-002)	9/7/2001	Pheophytin a	0.743	µg/L		0.3	0.6
A764	9/10/2001	1	WG57616	L21809-36	EPA446.0 (03-02-002-002)	10/4/2001	Pheophytin a	0.4	µg/L	<RDL	0.3	0.6
A764	9/24/2001	1	WG57829	L21824-36	EPA446.0 (03-02-002-002)	10/15/2001	Pheophytin a	0.999	µg/L		0.3	0.6
A764	10/8/2001	1	WG58136	L22103-36	EPA446.0 (03-02-002-002)	10/31/2001	Pheophytin a	7.74	µg/L		0.3	0.6
A764	10/22/2001	1	WG58392	L22234-36	EPA446.0 (03-02-002-002)	11/19/2001	Pheophytin a	0.55	µg/L	<RDL	0.3	0.6
A764	5/4/2003	1	WG68663	L27871-53	EPA446.0 (03-02-002S-003)	5/8/2003	Pheophytin a		µg/L	<MDL	2	4
A764	5/18/2003	1	WG68984	L28143-38	EPA446.0 (03-02-002S-003)	5/21/2003	Pheophytin a		µg/L	<MDL	2	4
A764	5/18/2003	3.5	WG68984	L28143-39	EPA446.0 (03-02-002S-003)	5/21/2003	Pheophytin a		µg/L	<MDL	2	4
A764	5/18/2003	7	WG68984	L28143-37	EPA446.0 (03-02-002S-003)	5/21/2003	Pheophytin a	2.7	µg/L	<RDL	2	4
A764	6/1/2003	1	WG69189	L28276-51	EPA446.0 (03-02-002S-003)	6/9/2003	Pheophytin a		µg/L	<MDL	1.9	3.88
A764	6/16/2003	1	WG69437	L28429-51	EPA446.0 (03-02-002S-003)	6/23/2003	Pheophytin a		µg/L	<MDL	1.3	2.5
A764	6/29/2003	1	WG69636	L28533-51	EPA446.0 (03-02-002S-003)	7/3/2003	Pheophytin a		µg/L	<MDL	1.3	2.5
A764	7/13/2003	1	WG69831	L28694-51	EPA446.0 (03-02-002S-003)	7/21/2003	Pheophytin a		µg/L	<MDL	1.7	3.33
A764	7/27/2003	1	WG70103	L28809-50	EPA446.0 (03-02-002S-003)	8/7/2003	Pheophytin a		µg/L	<MDL	2	4
A764	8/10/2003	1	WG70334	L29054-51	EPA446.0 (03-02-002S-003)	8/15/2003	Pheophytin a	1.6	µg/L	<RDL	1.3	2.67
A764	8/24/2003	1	WG70556	L29147-51	EPA446.0 (03-02-002S-003)	8/29/2003	Pheophytin a		µg/L	<MDL	1.7	3.33
A764	9/8/2003	1	WG70831	L29305-37	EPA446.0 (03-02-002S-003)	9/15/2003	Pheophytin a		µg/L	TA	2.5	5
A764	9/8/2003	4	WG70831	L29305-38	EPA446.0 (03-02-002S-003)	9/15/2003	Pheophytin a	7.16	µg/L		3.3	6.67
A764	9/8/2003	8.5	WG70833	L29305-39	EPA446.0 (03-02-002S-003)	9/18/2003	Pheophytin a		µg/L	TA	6.67	13.333
A764	10/6/2003	1	WG71313	L29664-51	EPA446.0 (03-02-002S-003)	10/13/2003	Pheophytin a		µg/L	<MDL	2	4
A764	10/19/2003	1	WG71623	L29775-51	EPA446.0 (03-02-002S-003)	10/30/2003	Pheophytin a		µg/L	<MDL,H	2	4
A764	5/10/2004	1	WG74617	L31727-49	EPA446.0 (03-02-002S-003)	5/21/2004	Pheophytin a		µg/L	<MDL	2	4
A764	5/24/2004	1	WG74963	L31830-37	EPA446.0 (03-02-002S-003)	6/11/2004	Pheophytin a		µg/L	<MDL	2	4
A764	5/24/2004	4	WG74963	L31830-38	EPA446.0 (03-02-002S-003)	6/11/2004	Pheophytin a		µg/L	<MDL	2	4
A764	5/24/2004	8.5	WG74963	L31830-39	EPA446.0 (03-02-002S-003)	6/11/2004	Pheophytin a		µg/L	TA	5	10
A764	6/7/2004	1	WG75002	L31873-13	EPA446.0 (03-02-002S-003)	6/25/2004	Pheophytin a		µg/L	<MDL	2	4
A764	6/21/2004	1	WG75413	L31999-13	EPA446.0 (03-02-002S-003)	7/8/2004	Pheophytin a		µg/L	<MDL	2	4
A764	7/6/2004	1	WG75491	L32160-13	EPA446.0 (03-02-002S-003)	7/14/2004	Pheophytin a		µg/L	<MDL	2.4	4.7
A764	7/19/2004	1	WG75538	L32163-13	EPA446.0 (03-02-002S-003)	8/11/2004	Pheophytin a		µg/L	<MDL	2	4
A764	8/2/2004	1	WG76161	L32305-13	EPA446.0 (03-02-002S-003)	8/12/2004	Pheophytin a		µg/L	<MDL	5	10
A764	8/16/2004	1	WG76250	L32486-13	EPA446.0 (03-02-002S-003)	9/3/2004	Pheophytin a		µg/L	<MDL,H	2	4
A764	8/30/2004	1	WG76269	L32658-34	EPA446.0 (03-02-002S-003)	9/8/2004	Pheophytin a		µg/L	<MDL	4	8
A764	8/30/2004	4	WG76269	L32658-35	EPA446.0 (03-02-002S-003)	9/8/2004	Pheophytin a		µg/L	<MDL	2	4

Appendix A: Data Validation Results

Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764	9/13/2004	1	WG76496	L32922-13	EPA446.0 (03-02-002S-003)	10/1/2004	Pheophytin a		µg/L	<MDL	2.9	5.71
A764	9/27/2004	1	WG76762	L33147-13	EPA446.0 (03-02-002S-003)	10/8/2004	Pheophytin a	2.4	µg/L	<RDL	2	4.03
A764	10/11/2004	1	WG77095	L33250-13	EPA446.0 (03-02-002S-003)	10/22/2004	Pheophytin a		µg/L	<MDL	2	4
A764	10/25/2004	1	WG77339	L33323-13	EPA446.0 (03-02-002S-003)	11/12/2004	Pheophytin a		µg/L	<MDL	1.3	2.5
A764	5/12/2005	1	WG80166	L35301-16	EPA446.0 (03-02-002S-003)	5/25/2005	Pheophytin a		µg/L	<MDL	1.1	2.29
A764	5/24/2005	1	WG80455	L35437-16	EPA446.0 (03-02-002S-003)	6/2/2005	Pheophytin a		µg/L	<MDL	2	4
A764	5/24/2005	4	WG80455	L35437-17	EPA446.0 (03-02-002S-003)	6/2/2005	Pheophytin a		µg/L	<MDL	2	4
A764	5/24/2005	8	WG80455	L35437-18	EPA446.0 (03-02-002S-003)	6/2/2005	Pheophytin a		µg/L	<MDL,E	4	8
A764	6/7/2005	1	WG80713	L35546-16	EPA446.0 (03-02-002S-003)	6/17/2005	Pheophytin a		µg/L	<MDL	2.8	5.64
A764	6/20/2005	1	WG80886	L35688-16	EPA446.0 (03-02-002S-003)	7/5/2005	Pheophytin a		µg/L	<MDL	2	4
A764	7/12/2005	1	WG81176	L35782-16	EPA446.0 (03-02-002S-003)	7/22/2005	Pheophytin a		µg/L	<MDL	2.5	5.02
A764	8/2/2005	1	WG81482	L35958-16	EPA446.0 (03-02-002S-003)	8/22/2005	Pheophytin a		µg/L	<MDL	1.8	3.64
A764	8/16/2005	1	WG81705	L36165-16	EPA446.0 (03-02-002S-003)	8/25/2005	Pheophytin a	2.2	µg/L	<RDL	2	4
A764	8/30/2005	1	WG82290	L36364-16	EPA446.0 (03-02-002S-003)	9/16/2005	Pheophytin a	2.9	µg/L	<RDL	2	4
A764	8/30/2005	4	WG82290	L36364-17	EPA446.0 (03-02-002S-003)	9/16/2005	Pheophytin a		µg/L	<MDL	6.6	13.3
A764	8/30/2005	7	WG82290	L36364-18	EPA446.0 (03-02-002S-003)	9/16/2005	Pheophytin a		µg/L	TA	2	4
A764	9/13/2005	1	WG82220	L36579-16	EPA446.0 (03-02-002S-003)	10/3/2005	Pheophytin a		µg/L	<MDL	2	4
A764	9/26/2005	1	WG82438	L36683-16	EPA446.0 (03-02-002S-003)	10/17/2005	Pheophytin a		µg/L	<MDL	2	4
A764	10/11/2005	1	WG82704	L36809-16	EPA446.0 (03-02-002S-003)	11/3/2005	Pheophytin a		µg/L	<MDL	2	4
A764	10/25/2005	1	WG82906	L36852-16	EPA446.0 (03-02-002S-003)	11/15/2005	Pheophytin a		µg/L	<MDL	2.9	5.71
A764	5/8/2006	1	WG85596	L38716-5	EPA446.0 (03-02-002S-003)	5/17/2006	Pheophytin a		µg/L	<MDL	1.3	2.67
A764	5/22/2006	1	WG85862	L38754-13	EPA446.0 (03-02-002S-003)	6/2/2006	Pheophytin a		µg/L	<MDL	1.3	2.67
A764	5/22/2006	4	WG85862	L38754-14	EPA446.0 (03-02-002S-003)	6/2/2006	Pheophytin a	1.6	µg/L	<RDL	1.3	2.67
A764	5/22/2006	8.5	WG85862	L38754-15	EPA446.0 (03-02-002S-003)	6/2/2006	Pheophytin a	3.6	µg/L	<RDL	2	4
A764	6/5/2006	1	WG86052	L39048-5	EPA446.0 (03-02-002S-003)	6/12/2006	Pheophytin a		µg/L	<MDL	1	2
A764	6/19/2006	1	WG86314	L39303-5	EPA446.0 (03-02-002S-003)	6/27/2006	Pheophytin a		µg/L	<MDL	1	2
A764	7/10/2006	1	WG86657	L39467-5	EPA446.0 (03-02-002S-003)	7/17/2006	Pheophytin a	2.5	µg/L	<RDL	2.3	4.68
A764	7/31/2006	1	WG87170	L39624-5	EPA446.0 (03-02-002S-003)	8/9/2006	Pheophytin a		µg/L	<MDL	1.3	2.67
A764	8/14/2006	1	WG87415	L39739-5	EPA446.0 (03-02-002S-003)	8/18/2006	Pheophytin a	1.8	µg/L	<RDL	1.3	2.67
A764	8/28/2006	1	WG87656	L39947-13	EPA446.0 (03-02-002S-003)	9/14/2006	Pheophytin a		µg/L	<MDL	2	4
A764	8/28/2006	4	WG87656	L39947-14	EPA446.0 (03-02-002S-003)	9/14/2006	Pheophytin a		µg/L	<MDL	1.4	2.71
A764	8/28/2006	8	WG87656	L39947-15	EPA446.0 (03-02-002S-003)	9/14/2006	Pheophytin a		µg/L	TA	2	4
A764	9/11/2006	1	WG88020	L40041-5	EPA446.0 (03-02-002S-003)	10/4/2006	Pheophytin a	1.3	µg/L	<RDL	1.3	2.54
A764	9/25/2006	1	WG88216	L40182-5	EPA446.0 (03-02-002S-003)	10/18/2006	Pheophytin a	2.41	µg/L		1.1	2.16
A764	10/9/2006	1	WG88514	L40413-5	EPA446.0 (03-02-002S-003)	11/1/2006	Pheophytin a		µg/L	<MDL	1.3	2.67
A764	10/23/2006	1	WG88692	L40579-5	EPA446.0 (03-02-002S-003)	11/9/2006	Pheophytin a		µg/L	<MDL	1.1	2.24
A764	5/7/2007	1	WG91390	L42386-6	EPA446.0 (03-02-002S-004)	5/15/2007	Pheophytin a		µg/L	<MDL	1.3	2.67
A764	5/21/2007	1	WG91614	L42436-13	EPA446.0 (03-02-002S-004)	6/13/2007	Pheophytin a		µg/L	<MDL	1.3	2.67

Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764	5/21/2007	3	WG91614	L42436-14	EPA446.0 (03-02-002S-004)	6/13/2007	Pheophytin a		µg/L	<MDL	1.3	2.67
A764	5/21/2007	7	WG91614	L42436-15	EPA446.0 (03-02-002S-004)	6/13/2007	Pheophytin a		µg/L	<MDL	1.3	2.67
A764	6/4/2007	1	WG91835	L42706-6	EPA446.0 (03-02-002S-004)	6/27/2007	Pheophytin a		µg/L	<MDL	1.3	2.67
A764	6/18/2007	1	WG92006	L42785-6	EPA446.0 (03-02-002S-004)	7/12/2007	Pheophytin a		µg/L	<MDL	1.3	2.67
A764	7/9/2007	1	WG92280	L42956-6	EPA446.0 (03-02-002S-004)	7/25/2007	Pheophytin a		µg/L	<MDL	2	4
A764	7/30/2007	1	WG92575	L43103-6	EPA446.0 (03-02-002S-004)	8/13/2007	Pheophytin a		µg/L	<MDL	2	4
A764	8/13/2007	1	WG92825	L43253-6	EPA446.0 (03-02-002S-004)	9/4/2007	Pheophytin a		µg/L	<MDL	2	4
A764	8/27/2007	1	WG93038	L43422-13	EPA446.0 (03-02-002S-004)	9/20/2007	Pheophytin a		µg/L	<MDL	2	4
A764	8/27/2007	3	WG93038	L43422-14	EPA446.0 (03-02-002S-004)	9/20/2007	Pheophytin a	2.8	µg/L	<RDL	1.7	3.33
A764	8/27/2007	7	WG93038	L43422-15	EPA446.0 (03-02-002S-004)	9/20/2007	Pheophytin a		µg/L	TA	4.4	8.8
A764	9/10/2007	1	WG93299	L43622-6	EPA446.0 (03-02-002S-004)	10/1/2007	Pheophytin a	1.4	µg/L	<RDL	1	2.04
A764	9/24/2007	1	WG93515	L43691-6	EPA446.0 (03-02-002S-004)	10/19/2007	Pheophytin a	2.3	µg/L	<RDL	2	4
A764	10/8/2007	1	WG93719	L43858-6	EPA446.0 (03-02-002S-004)	10/31/2007	Pheophytin a	2.7	µg/L	<RDL	2	4
A764	10/22/2007	1	WG93968	L44011-6	EPA446.0 (03-02-002S-004)	11/16/2007	Pheophytin a	2	µg/L	<RDL	2	4
A764	5/5/2008	1	WG96462	L45458-6	EPA446.0 (315V4)	5/15/2008	Pheophytin a		µg/L	<MDL	2	4
A764	5/19/2008	1	WG96655	L45478-14	EPA446.0 (315V4)	6/4/2008	Pheophytin a		µg/L	<MDL	1	2
A764	5/19/2008	3	WG96655	L45478-15	EPA446.0 (315V4)	6/4/2008	Pheophytin a		µg/L	<MDL	1	2
A764	5/19/2008	7	WG96655	L45478-16	EPA446.0 (315V4)	6/4/2008	Pheophytin a	3.4	µg/L	<RDL	2	4
A764	6/2/2008	1	WG96931	L45601-6	EPA446.0 (315V4)	6/10/2008	Pheophytin a		µg/L	<MDL	2	4
A764	6/16/2008	1	WG97151	L45687-7	EPA446.0 (315V4)	6/23/2008	Pheophytin a		µg/L	<MDL	2	4
A764	6/30/2008	1	WG97364	L45807-6	EPA446.0 (315V4)	7/7/2008	Pheophytin a		µg/L	<MDL	1	2
A764	7/21/2008	1	WG97658	L45924-7	EPA446.0 (315V4)	7/25/2008	Pheophytin a		µg/L	<MDL	1	2
A764	8/11/2008	1	WG97976	L46082-6	EPA446.0 (315V4)	8/19/2008	Pheophytin a		µg/L	<MDL	2	4
A764	8/25/2008	1	WG98399	L46170-14	EPA446.0 (315V4)	9/16/2008	Pheophytin a		µg/L	<MDL	2	4
A764	8/25/2008	3	WG98399	L46170-15	EPA446.0 (315V4)	9/16/2008	Pheophytin a	2.9	µg/L	<RDL	2.5	5.04
A764	8/25/2008	7	WG98399	L46170-16	EPA446.0 (315V4)	9/16/2008	Pheophytin a	15.4	µg/L		2.4	4.79
A764	9/8/2008	1	WG98494	L46293-6	EPA446.0 (315V4)	9/23/2008	Pheophytin a		µg/L	<MDL	1	2
A764	9/22/2008	1	WG98792	L46428-7	EPA446.0 (315V4)	9/30/2008	Pheophytin a		µg/L	<MDL	2	4
A764	10/6/2008	1	WG98987	L46491-6	EPA446.0 (315V4)	10/22/2008	Pheophytin a		µg/L	<MDL	1.3	2.62
A764	10/20/2008	1	WG99249	L46648-7	EPA446.0 (315V4)	10/28/2008	Pheophytin a	3.7	µg/L	<RDL	2	3.97
A764	5/4/2009	1	WG102043	L47861-4	EPA446.0	5/27/2009	Pheophytin a		µg/L	<MDL	2	4
A764	5/18/2009	1	WG102355	L47929-11	EPA446.0	6/11/2009	Pheophytin a		µg/L	<MDL	1	2.02
A764	5/18/2009	3	WG102355	L47929-12	EPA446.0	6/11/2009	Pheophytin a	1.3	µg/L	<RDL	1	2
A764	5/18/2009	7	WG102355	L47929-13	EPA446.0	6/11/2009	Pheophytin a	1.4	µg/L	<RDL	1.2	2.35
A764	6/1/2009	1	WG102633	L48073-4	EPA446.0	6/18/2009	Pheophytin a		µg/L	<MDL	1	2
A764	6/15/2009	1	WG102888	L48142-5	EPA446.0	7/2/2009	Pheophytin a		µg/L	<MDL	1	2
A764	6/29/2009	1	WG103183	L48250-4	EPA446.0	7/10/2009	Pheophytin a		µg/L	<MDL	1.4	2.86
A764	7/13/2009	1	WG103455	L48283-4	EPA446.0	7/30/2009	Pheophytin a		µg/L	<MDL,TA	1.7	3.33

Appendix A: Data Validation Results

Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764	8/3/2009	1	WG103880	L48285-5	EPA446.0	8/20/2009	Pheophytin a		µg/L	<MDL	1.4	2.86
A764	8/17/2009	1	WG104290	L48327-4	EPA446.0	9/2/2009	Pheophytin a		µg/L	<MDL	2.4	4.81
A764	9/1/2009	1	WG104551	L48771-11	EPA446.0	9/24/2009	Pheophytin a		µg/L	<MDL	3.8	7.67
A764	9/1/2009	3	WG104551	L48771-12	EPA446.0	9/24/2009	Pheophytin a	2.34	µg/L		1.1	2.22
A764	9/1/2009	7	WG104551	L48771-13	EPA446.0	9/24/2009	Pheophytin a		µg/L	<MDL,TA	3.3	6.67
A764	9/14/2009	1	WG104731	L48908-4	EPA446.0	10/1/2009	Pheophytin a		µg/L	<MDL	1	2
A764	9/28/2009	1	WG105024	L49004-5	EPA446.0	10/16/2009	Pheophytin a	1.4	µg/L	<RDL	1	2
A764	10/19/2009	1	WG105491	L49146-4	EPA446.0	11/16/2009	Pheophytin a	2.5	µg/L	<RDL	1.6	3.29
A764	5/10/2010	1	WG109076	L50653-4	EPA446.0	6/2/2010	Pheophytin a		µg/L	<MDL	1.1	2.13
A764	5/24/2010	1	WG109341	L50716-10	EPA446.0	6/17/2010	Pheophytin a		µg/L	<MDL,J	1.1	2.22
A764	5/24/2010	3	WG109341	L50716-11	EPA446.0	6/17/2010	Pheophytin a		µg/L	<MDL,J	1	2
A764	5/24/2010	7	WG109341	L50716-12	EPA446.0	6/17/2010	Pheophytin a		µg/L	<MDL,J	1	2.05
A764	6/7/2010	1	WG109562	L50819-4	EPA446.0	6/18/2010	Pheophytin a	3.5	µg/L	<RDL,J	2.8	5.67
A764	6/21/2010	1	WG109830	L50936-4	EPA446.0	7/15/2010	Pheophytin a	19.2	µg/L	TA	4.7	9.38
A764	7/12/2010	1	WG110165	L51026-4	EPA446.0	8/4/2010	Pheophytin a		µg/L	<MDL,J	1.3	2.67
A764	7/26/2010	1	WG110359	L51116-4	EPA446.0	8/18/2010	Pheophytin a	2.8	µg/L	<RDL,TA	2	4
A764	8/9/2010	1	WG110602	L51253-4	EPA446.0	9/1/2010	Pheophytin a	4.64	µg/L		1.9	3.85
A764	8/23/2010	1	WG110908	L51305-10	EPA446.0	9/17/2010	Pheophytin a	2.9	µg/L	<RDL,J	1.7	3.33
A764	8/23/2010	3	WG110908	L51305-11	EPA446.0	9/17/2010	Pheophytin a	5.46	µg/L	J	1.9	3.9
A764	8/23/2010	7	WG110908	L51305-12	EPA446.0	9/17/2010	Pheophytin a		µg/L	<MDL,J	3.3	6.67
A764	9/13/2010	1	WG111254	L51497-4	EPA446.0	9/22/2010	Pheophytin a		µg/L	<MDL	1	2.07
A764	9/27/2010	1	WG111532	L51640-4	EPA446.0	10/13/2010	Pheophytin a		µg/L	<MDL,TA	1.4	2.72
A764	10/11/2010	1	WG111779	L51714-4	EPA446.0	10/21/2010	Pheophytin a	2.7	µg/L	<RDL,J	1.6	3.26
A764	10/25/2010	1	WG112043	L51854-4	EPA446.0	11/5/2010	Pheophytin a	5.01	µg/L	J	2	4
A764	5/9/2011	1	WG115132	L52948-4	EPA446.0	5/18/2011	Pheophytin a		µg/L	<MDL	1.3	2.67
A764	5/23/2011	1	WG115399	L53066-10	EPA446.0	6/8/2011	Pheophytin a		µg/L	<MDL	1.1	2.13
A764	5/23/2011	3	WG115399	L53066-11	EPA446.0	6/8/2011	Pheophytin a		µg/L	<MDL	1	2
A764	5/23/2011	7	WG115399	L53066-12	EPA446.0	6/8/2011	Pheophytin a	1.6	µg/L	<RDL	1	2
A764	6/6/2011	1	WG115405	L53252-4	EPA446.0	6/9/2011	Pheophytin a		µg/L	<MDL	1.1	2.11
A764	6/20/2011	1	WG115845	L53345-4	EPA446.0	7/6/2011	Pheophytin a		µg/L	<MDL	1	2.08
A764	7/11/2011	1	WG116143	L53346-4	EPA446.0	7/20/2011	Pheophytin a		µg/L	<MDL	1.1	2.12
A764	7/25/2011	1	WG116421	L53563-4	EPA446.0	8/12/2011	Pheophytin a		µg/L	<MDL	1.1	2.11
A764	8/8/2011	1	WG116421	L53727-4	EPA446.0	8/12/2011	Pheophytin a	2.4	µg/L	<RDL	1.4	2.86
A764	8/22/2011	1	WG117076	L53787-10	EPA446.0	9/15/2011	Pheophytin a	1.7	µg/L	<RDL	1.3	2.5
A764	8/22/2011	3	WG117076	L53787-11	EPA446.0	9/15/2011	Pheophytin a	2.19	µg/L		1.1	2.11
A764	8/22/2011	7	WG117076	L53787-12	EPA446.0	9/15/2011	Pheophytin a		µg/L	TA	4	8
A764	9/12/2011	1	WG117348	L53928-4	EPA446.0	10/5/2011	Pheophytin a	1.5	µg/L	<RDL	1	2
A764	9/26/2011	1	WG117348	L54100-4	EPA446.0	10/5/2011	Pheophytin a		µg/L	<MDL	1	2

Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764	10/10/2011	1	WG117675	L54168-4	EPA446.0	10/14/2011	Pheophytin a		µg/L	<MDL	1.3	2.67
A764	10/24/2011	1	WG118184	L54313-4	EPA446.0	11/4/2011	Pheophytin a		µg/L	<MDL	1.5	2.95
A764	5/6/2001	1	WG55832	L20526-36	NONE		Sample Temp, field	15	deg C			
A764	5/21/2001	1	WG55871	L20527-36	NONE		Sample Temp, field	18	deg C			
A764	6/3/2001	1	WG55930	L20786-36	NONE		Sample Temp, field	18	deg C			
A764	6/17/2001	1	WG56108	L21071-101	NONE		Sample Temp, field	17.5	deg C			
A764	6/17/2001	4	WG56108	L21071-102	NONE		Sample Temp, field	15.5	deg C			
A764	6/17/2001	8.5	WG56108	L21071-103	NONE		Sample Temp, field	7	deg C			
A764	7/30/2001	1	WG57018	L21435-36	NONE		Sample Temp, field	22	deg C			
A764	8/13/2001	1	WG57289	L21609-36	NONE		Sample Temp, field	24	deg C			
A764	8/27/2001	1	WG57424	L21709-101	NONE		Sample Temp, field	22	deg C			
A764	8/27/2001	4	WG57424	L21709-102	NONE		Sample Temp, field	19.5	deg C			
A764	8/27/2001	8.5	WG57424	L21709-103	NONE		Sample Temp, field	8	deg C			
A764	9/10/2001	1	WG57776	L21809-36	NONE		Sample Temp, field	20.5	deg C			
A764	9/24/2001	1	WG58362	L21824-36	NONE		Sample Temp, field	18	deg C			
A764	10/8/2001	1	WG58364	L22103-36	NONE		Sample Temp, field	15.5	deg C			
A764	10/22/2001	1	WG58466	L22234-36	NONE		Sample Temp, field	12	deg C			
A764	5/4/2003	1	WG68872	L27871-53	NONE		Sample Temp, field	9	deg C			
A764	5/18/2003	1	WG69014	L28143-38	NONE		Sample Temp, field	17	deg C			
A764	5/18/2003	3.5	WG69014	L28143-39	NONE		Sample Temp, field	15	deg C			
A764	5/18/2003	7	WG69014	L28143-37	NONE		Sample Temp, field	10	deg C			
A764	6/1/2003	1	WG69232	L28276-51	NONE		Sample Temp, field	19	deg C			
A764	6/16/2003	1	WG69549	L28429-51	NONE		Sample Temp, field	20.5	deg C			
A764	6/29/2003	1	WG69752	L28533-51	NONE		Sample Temp, field	23	deg C			
A764	7/13/2003	1	WG69949	L28694-51	NONE		Sample Temp, field	22	deg C			
A764	7/27/2003	1	WG70254	L28809-50	NONE		Sample Temp, field	25	deg C			
A764	8/10/2003	1	WG70858	L29054-51	NONE		Sample Temp, field	23	deg C			
A764	8/24/2003	1	WG70749	L29147-51	NONE		Sample Temp, field	22	deg C			
A764	9/8/2003	1	WG70937	L29305-37	NONE		Sample Temp, field	22	deg C			
A764	9/8/2003	4	WG70937	L29305-38	NONE		Sample Temp, field	20	deg C			
A764	9/8/2003	8.5	WG70937	L29305-39	NONE		Sample Temp, field	9	deg C			
A764	10/6/2003	1	WG71343	L29664-51	NONE		Sample Temp, field	17.2	deg C			
A764	10/19/2003	1	WG71834	L29775-51	NONE		Sample Temp, field	14	deg C			
A764	5/10/2004	1	WG74573	L31727-49	NONE		Sample Temp, field	18	deg C			
A764	5/24/2004	1	WG74882	L31830-37	NONE		Sample Temp, field	21	deg C			
A764	5/24/2004	4	WG74882	L31830-38	NONE		Sample Temp, field	17	deg C			
A764	5/24/2004	8.5	WG74882	L31830-39	NONE		Sample Temp, field	8	deg C			
A764	6/7/2004	1	WG75087	L31873-13	NONE		Sample Temp, field	19.5	deg C			

Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764	6/21/2004	1	WG75127	L31999-13	NONE		Sample Temp, field	25.5	deg C			
A764	7/6/2004	1	WG75484	L32160-13	NONE		Sample Temp, field		deg C	TA		
A764	7/19/2004	1	WG75813	L32163-13	NONE		Sample Temp, field	25	deg C			
A764	8/2/2004	1	WG75912	L32305-13	NONE		Sample Temp, field	25	deg C			
A764	8/16/2004	1	WG76098	L32486-13	NONE		Sample Temp, field	25	deg C			
A764	8/30/2004	1	WG76867	L32658-34	NONE		Sample Temp, field	23	deg C			
A764	8/30/2004	4	WG76867	L32658-35	NONE		Sample Temp, field	20	deg C			
A764	8/30/2004	8.5	WG76867	L32658-36	NONE		Sample Temp, field	9	deg C			
A764	9/13/2004	1	WG76907	L32922-13	NONE		Sample Temp, field	19.5	deg C			
A764	9/27/2004	1	WG77016	L33147-13	NONE		Sample Temp, field	18	deg C			
A764	10/11/2004	1	WG77737	L33250-13	NONE		Sample Temp, field	16	deg C			
A764	10/25/2004	1	WG77699	L33323-13	NONE		Sample Temp, field	13	deg C			
A764	5/12/2005	1	WG80502	L35301-16	NONE		Sample Temp, field	17	deg C			
A764	5/24/2005	1	WG80516	L35437-16	NONE		Sample Temp, field	15.9	deg C			
A764	5/24/2005	4	WG80516	L35437-17	NONE		Sample Temp, field	14.4	deg C			
A764	5/24/2005	8	WG80516	L35437-18	NONE		Sample Temp, field	8.5	deg C			
A764	6/7/2005	1	WG80786	L35546-16	NONE		Sample Temp, field	18.3	deg C			
A764	6/20/2005	1	WG80949	L35688-16	NONE		Sample Temp, field	23	deg C			
A764	7/12/2005	1	WG81382	L35782-16	NONE		Sample Temp, field	20.5	deg C			
A764	8/2/2005	1	WG81801	L35958-16	NONE		Sample Temp, field	23.2	deg C			
A764	8/16/2005	1	WG81821	L36165-16	NONE		Sample Temp, field	23.1	deg C			
A764	8/30/2005	1	WG82268	L36364-16	NONE		Sample Temp, field	21.5	deg C			
A764	8/30/2005	4	WG82268	L36364-17	NONE		Sample Temp, field	21.4	deg C			
A764	8/30/2005	7	WG82268	L36364-18	NONE		Sample Temp, field	9.7	deg C			
A764	9/13/2005	1	WG82267	L36579-16	NONE		Sample Temp, field	19	deg C			
A764	9/26/2005	1	WG82570	L36683-16	NONE		Sample Temp, field	17	deg C			
A764	10/11/2005	1	WG82759	L36809-16	NONE		Sample Temp, field	14.8	deg C			
A764	10/25/2005	1	WG82935	L36852-16	NONE		Sample Temp, field	13.9	deg C			
A764	5/8/2006	1	WG85855	L38716-5	NONE		Sample Temp, field	14.5	deg C			
A764	5/22/2006	1	WG85997	L38754-13	NONE		Sample Temp, field	18.5	deg C			
A764	5/22/2006	4	WG85997	L38754-14	NONE		Sample Temp, field		deg C	TA		
A764	5/22/2006	8.5	WG85997	L38754-15	NONE		Sample Temp, field	7	deg C			
A764	6/5/2006	1	WG86275	L39048-5	NONE		Sample Temp, field	18.8	deg C			
A764	6/19/2006	1	WG86383	L39303-5	NONE		Sample Temp, field	18.9	deg C			
A764	7/10/2006	1	WG86759	L39467-5	NONE		Sample Temp, field	22.2	deg C			
A764	7/31/2006	1	WG87150	L39624-5	NONE		Sample Temp, field	22	deg C			
A764	8/14/2006	1	WG87470	L39739-5	NONE		Sample Temp, field	22.7	deg C			
A764	8/28/2006	1	WG87850	L39947-13	NONE		Sample Temp, field	22.5	deg C			

Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764	8/28/2006	4	WG87850	L39947-14	NONE		Sample Temp, field	20.7	deg C			
A764	8/28/2006	8	WG87850	L39947-15	NONE		Sample Temp, field	10.3	deg C			
A764	9/11/2006	1	WG88061	L40041-5	NONE		Sample Temp, field	20.1	deg C			
A764	9/25/2006	1	WG88234	L40182-5	NONE		Sample Temp, field	19	deg C			
A764	10/9/2006	1	WG88533	L40413-5	NONE		Sample Temp, field	15.6	deg C			
A764	10/23/2006	1	WG88755	L40579-5	NONE		Sample Temp, field	13.6	deg C			
A764	5/7/2007	1	WG91407	L42386-6	NONE		Sample Temp, field	14.2	deg C			
A764	5/21/2007	1	WG91671	L42436-13	NONE		Sample Temp, field	16.5	deg C			
A764	5/21/2007	3	WG91671	L42436-14	NONE		Sample Temp, field	15.5	deg C			
A764	5/21/2007	7	WG91671	L42436-15	NONE		Sample Temp, field	10	deg C			
A764	6/4/2007	1	WG91952	L42706-6	NONE		Sample Temp, field	21.6	deg C			
A764	6/18/2007	1	WG92033	L42785-6	NONE		Sample Temp, field	17.7	deg C			
A764	7/9/2007	1	WG92452	L42956-6	NONE		Sample Temp, field	22.6	deg C			
A764	7/30/2007	1	WG92821	L43103-6	NONE		Sample Temp, field	22	deg C			
A764	8/13/2007	1	WG93022	L43253-6	NONE		Sample Temp, field	20.8	deg C			
A764	8/27/2007	1	WG93374	L43422-13	NONE		Sample Temp, field	20.7	deg C			
A764	8/27/2007	3	WG93374	L43422-14	NONE		Sample Temp, field	20.5	deg C			
A764	8/27/2007	7	WG93374	L43422-15	NONE		Sample Temp, field	12.4	deg C			
A764	9/10/2007	1	WG93729	L43622-6	NONE		Sample Temp, field	20.5	deg C			
A764	9/24/2007	1	WG93739	L43691-6	NONE		Sample Temp, field	17	deg C			
A764	10/8/2007	1	WG93804	L43858-6	NONE		Sample Temp, field	14	deg C			
A764	10/22/2007	1	WG94053	L44011-6	NONE		Sample Temp, field	12	deg C			
A764	5/5/2008	1	WG96595	L45458-6	NONE		Sample Temp, field	14	deg C			
A764	5/19/2008	1	WG96834	L45478-14	NONE		Sample Temp, field	18.5	deg C			
A764	5/19/2008	3	WG96834	L45478-15	NONE		Sample Temp, field	14.5	deg C			
A764	5/19/2008	7	WG96834	L45478-16	NONE		Sample Temp, field	8	deg C			
A764	6/2/2008	1	WG97072	L45601-6	NONE		Sample Temp, field	17	deg C			
A764	6/16/2008	1	WG97498	L45687-7	NONE		Sample Temp, field	17	deg C			
A764	6/30/2008	1	WG97499	L45807-6	NONE		Sample Temp, field	23	deg C			
A764	7/21/2008	1	WG97920	L45924-7	NONE		Sample Temp, field	22.3	deg C			
A764	8/11/2008	1	WG98426	L46082-6	NONE		Sample Temp, field	21	deg C			
A764	8/25/2008	1	WG98756	L46170-14	NONE		Sample Temp, field	20.5	deg C			
A764	8/25/2008	3	WG98756	L46170-15	NONE		Sample Temp, field	20.5	deg C			
A764	8/25/2008	7	WG98756	L46170-16	NONE		Sample Temp, field	10.5	deg C			
A764	9/8/2008	1	WG98781	L46293-6	NONE		Sample Temp, field	19.4	deg C			
A764	9/22/2008	1	WG98883	L46428-7	NONE		Sample Temp, field	18	deg C			
A764	10/6/2008	1	WG99025	L46491-6	NONE		Sample Temp, field	16	deg C			
A764	10/20/2008	1	WG99324	L46648-7	NONE		Sample Temp, field	13	deg C			

Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764	5/4/2009	1	WG102196	L47861-4	NONE		Sample Temp, field	14.8	deg C			
A764	5/18/2009	1	WG102403	L47929-11	NONE		Sample Temp, field	18.2	deg C			
A764	5/18/2009	3	WG102403	L47929-12	NONE		Sample Temp, field	15	deg C			
A764	5/18/2009	7	WG102403	L47929-13	NONE		Sample Temp, field	8.3	deg C			
A764	6/1/2009	1	WG102714	L48073-4	NONE		Sample Temp, field	20.7	deg C			
A764	6/15/2009	1	WG102990	L48142-5	NONE		Sample Temp, field	21.6	deg C			
A764	6/29/2009	1	WG103905	L48250-4	NONE		Sample Temp, field	20.6	deg C			
A764	7/13/2009	1	WG103723	L48283-4	NONE		Sample Temp, field	20	deg C			
A764	8/3/2009	1	WG103979	L48285-5	NONE		Sample Temp, field	26.3	deg C			
A764	8/17/2009	1	WG104341	L48327-4	NONE		Sample Temp, field	20.9	deg C			
A764	9/1/2009	1	WG104643	L48771-11	NONE		Sample Temp, field	22	deg C			
A764	9/1/2009	3	WG104643	L48771-12	NONE		Sample Temp, field	19	deg C			
A764	9/1/2009	7	WG104643	L48771-13	NONE		Sample Temp, field	8	deg C			
A764	9/14/2009	1	WG104787	L48908-4	NONE		Sample Temp, field	19.7	deg C			
A764	9/28/2009	1	WG105094	L49004-5	NONE		Sample Temp, field	18	deg C			
A764	10/19/2009	1	WG105563	L49146-4	NONE		Sample Temp, field	13.5	deg C			
A764	5/6/2001	1	WG55832	L20526-36	NONE		Secchi Transparency	2.3	m			
A764	5/21/2001	1	WG55871	L20527-36	NONE		Secchi Transparency	2.3	m			
A764	6/3/2001	1	WG55930	L20786-36	NONE		Secchi Transparency	1.8	m			
A764	6/17/2001	1	WG56455	L21071-101	NONE		Secchi Transparency	2	m			
A764	7/30/2001	1	WG57018	L21435-36	NONE		Secchi Transparency	2	m			
A764	8/13/2001	1	WG57289	L21609-36	NONE		Secchi Transparency	2.3	m			
A764	8/27/2001	1	WG57424	L21709-101	NONE		Secchi Transparency	2	m			
A764	9/10/2001	1	WG57776	L21809-36	NONE		Secchi Transparency	2.3	m			
A764	9/24/2001	1	WG58362	L21824-36	NONE		Secchi Transparency	2	m			
A764	10/8/2001	1	WG58364	L22103-36	NONE		Secchi Transparency	2	m			
A764	10/22/2001	1	WG58466	L22234-36	NONE		Secchi Transparency	2	m			
A764	5/4/2003	1	WG68872	L27871-53	NONE		Secchi Transparency	1.3	m			
A764	5/18/2003	1	WG69014	L28143-38	NONE		Secchi Transparency	2	m			
A764	6/1/2003	1	WG69232	L28276-51	NONE		Secchi Transparency	1.3	m			
A764	6/16/2003	1	WG69549	L28429-51	NONE		Secchi Transparency	2.5	m			
A764	6/29/2003	1	WG69752	L28533-51	NONE		Secchi Transparency	1.5	m			
A764	7/13/2003	1	WG69949	L28694-51	NONE		Secchi Transparency	2.5	m			
A764	7/27/2003	1	WG70254	L28809-50	NONE		Secchi Transparency	2.3	m			
A764	8/10/2003	1	WG70858	L29054-51	NONE		Secchi Transparency	3	m			
A764	8/24/2003	1	WG70749	L29147-51	NONE		Secchi Transparency	2.5	m			
A764	9/8/2003	1	WG70937	L29305-37	NONE		Secchi Transparency	2	m			
A764	10/6/2003	1	WG71343	L29664-51	NONE		Secchi Transparency	1.5	m			

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A764	10/19/2003	1	WG71834	L29775-51	NONE		Secchi Transparency	2.5	m			
A764	5/10/2004	1	WG74573	L31727-49	NONE		Secchi Transparency	2	m			
A764	5/24/2004	1	WG74882	L31830-37	NONE		Secchi Transparency	3	m			
A764	6/7/2004	1	WG75087	L31873-13	NONE		Secchi Transparency	2.1	m			
A764	6/21/2004	1	WG75127	L31999-13	NONE		Secchi Transparency	2.6	m			
A764	7/6/2004	1	WG75484	L32160-13	NONE		Secchi Transparency	1	m			
A764	7/19/2004	1	WG75813	L32163-13	NONE		Secchi Transparency	1	m			
A764	8/2/2004	1	WG75912	L32305-13	NONE		Secchi Transparency	1.2	m			
A764	8/16/2004	1	WG76098	L32486-13	NONE		Secchi Transparency	1.3	m			
A764	8/30/2004	1	WG76867	L32658-34	NONE		Secchi Transparency	0.9	m			
A764	9/13/2004	1	WG76907	L32922-13	NONE		Secchi Transparency	1.5	m			
A764	9/27/2004	1	WG77016	L33147-13	NONE		Secchi Transparency	1.6	m			
A764	10/11/2004	1	WG77737	L33250-13	NONE		Secchi Transparency	3.3	m			
A764	10/25/2004	1	WG77699	L33323-13	NONE		Secchi Transparency	3.4	m			
A764	5/12/2005	1	WG80502	L35301-16	NONE		Secchi Transparency	2.6	m			
A764	5/24/2005	1	WG80516	L35437-16	NONE		Secchi Transparency	3.2	m			
A764	6/7/2005	1	WG80786	L35546-16	NONE		Secchi Transparency	1.6	m			
A764	6/20/2005	1	WG80949	L35688-16	NONE		Secchi Transparency	2.5	m			
A764	7/12/2005	1	WG81382	L35782-16	NONE		Secchi Transparency	2	m			
A764	8/2/2005	1	WG81801	L35958-16	NONE		Secchi Transparency	3.5	m			
A764	8/16/2005	1	WG81821	L36165-16	NONE		Secchi Transparency	2.2	m			
A764	8/30/2005	1	WG82268	L36364-16	NONE		Secchi Transparency	1.9	m			
A764	9/13/2005	1	WG82267	L36579-16	NONE		Secchi Transparency	1.8	m			
A764	9/26/2005	1	WG82570	L36683-16	NONE		Secchi Transparency	2.8	m			
A764	10/11/2005	1	WG82759	L36809-16	NONE		Secchi Transparency	3	m			
A764	10/25/2005	1	WG82935	L36852-16	NONE		Secchi Transparency	1.7	m			
A764	5/8/2006	1	WG85855	L38716-5	NONE		Secchi Transparency	3.6	m			
A764	5/22/2006	1	WG85997	L38754-13	NONE		Secchi Transparency	3.9	m			
A764	6/5/2006	1	WG86275	L39048-5	NONE		Secchi Transparency	3.2	m			
A764	6/19/2006	1	WG86383	L39303-5	NONE		Secchi Transparency	3.2	m			
A764	7/10/2006	1	WG86759	L39467-5	NONE		Secchi Transparency	1.9	m			
A764	7/31/2006	1	WG87150	L39624-5	NONE		Secchi Transparency	1.9	m			
A764	8/14/2006	1	WG87470	L39739-5	NONE		Secchi Transparency	3.4	m			
A764	8/28/2006	1	WG87850	L39947-13	NONE		Secchi Transparency	3.4	m			
A764	9/11/2006	1	WG88061	L40041-5	NONE		Secchi Transparency	2.7	m			
A764	9/25/2006	1	WG88234	L40182-5	NONE		Secchi Transparency	2.5	m			
A764	10/9/2006	1	WG88533	L40413-5	NONE		Secchi Transparency	2.2	m			
A764	10/23/2006	1	WG88755	L40579-5	NONE		Secchi Transparency	2.8	m			

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A764	5/7/2007	1	WG91407	L42386-6	NONE		Secchi Transparency	2.8	m			
A764	5/21/2007	1	WG91671	L42436-13	NONE		Secchi Transparency	2.5	m			
A764	6/4/2007	1	WG91952	L42706-6	NONE		Secchi Transparency	2.8	m			
A764	6/18/2007	1	WG92033	L42785-6	NONE		Secchi Transparency	3.2	m			
A764	7/9/2007	1	WG92452	L42956-6	NONE		Secchi Transparency	2.6	m			
A764	7/30/2007	1	WG92821	L43103-6	NONE		Secchi Transparency	2.4	m			
A764	8/13/2007	1	WG93022	L43253-6	NONE		Secchi Transparency	2.1	m			
A764	8/27/2007	1	WG93374	L43422-13	NONE		Secchi Transparency	2.2	m			
A764	9/10/2007	1	WG93729	L43622-6	NONE		Secchi Transparency	3.1	m			
A764	9/24/2007	1	WG93739	L43691-6	NONE		Secchi Transparency	3.2	m			
A764	10/8/2007	1	WG93804	L43858-6	NONE		Secchi Transparency	2.1	m			
A764	10/22/2007	1	WG94053	L44011-6	NONE		Secchi Transparency	1.7	m			
A764	5/5/2008	1	WG96595	L45458-6	NONE		Secchi Transparency		m	TA		
A764	5/19/2008	1	WG96834	L45478-14	NONE		Secchi Transparency	3.4	m			
A764	6/2/2008	1	WG97072	L45601-6	NONE		Secchi Transparency	2.6	m			
A764	6/16/2008	1	WG97498	L45687-7	NONE		Secchi Transparency	1.7	m			
A764	6/30/2008	1	WG97499	L45807-6	NONE		Secchi Transparency	2.7	m			
A764	7/21/2008	1	WG97920	L45924-7	NONE		Secchi Transparency	3.4	m			
A764	8/11/2008	1	WG98426	L46082-6	NONE		Secchi Transparency	2.8	m			
A764	8/25/2008	1	WG98756	L46170-14	NONE		Secchi Transparency	2.4	m			
A764	9/8/2008	1	WG98781	L46293-6	NONE		Secchi Transparency	2.5	m			
A764	9/22/2008	1	WG98883	L46428-7	NONE		Secchi Transparency	3.4	m			
A764	10/6/2008	1	WG99025	L46491-6	NONE		Secchi Transparency	2.2	m			
A764	10/20/2008	1	WG99324	L46648-7	NONE		Secchi Transparency	3.3	m			
A764	5/4/2009	1	WG102196	L47861-4	NONE		Secchi Transparency	3.5	m			
A764	5/18/2009	1	WG102403	L47929-11	NONE		Secchi Transparency	3.5	m			
A764	6/1/2009	1	WG102714	L48073-4	NONE		Secchi Transparency	3	m			
A764	6/15/2009	1	WG102990	L48142-5	NONE		Secchi Transparency	3	m			
A764	6/29/2009	1	WG103905	L48250-4	NONE		Secchi Transparency	3.5	m			
A764	7/13/2009	1	WG103723	L48283-4	NONE		Secchi Transparency	2.1	m			
A764	8/3/2009	1	WG103979	L48285-5	NONE		Secchi Transparency	2.8	m			
A764	8/17/2009	1	WG104341	L48327-4	NONE		Secchi Transparency	0.8	m			
A764	9/1/2009	1	WG104643	L48771-11	NONE		Secchi Transparency	0.6	m			
A764	9/14/2009	1	WG104787	L48908-4	NONE		Secchi Transparency	2.9	m			
A764	9/28/2009	1	WG105094	L49004-5	NONE		Secchi Transparency	2.1	m			
A764	10/19/2009	1	WG105563	L49146-4	NONE		Secchi Transparency	1.5	m			
A764	5/6/2001	1	WG55303	L20526-36	SM4500-N-C (03-03-013-000)	5/17/2001	Total Nitrogen	0.619	mg/L		0.05	0.1
A764	5/21/2001	1	WG55870	L20527-36	SM4500-N-C (03-03-013-000)	6/1/2001	Total Nitrogen	0.623	mg/L		0.05	0.1

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A764	6/3/2001	1	WG56007	L20786-36	SM4500-N-C (03-03-013-000)	6/19/2001	Total Nitrogen	0.772	mg/L		0.05	0.1
A764	6/17/2001	1	WG56152	L21071-101	SM4500-N-C (03-03-013-000)	6/29/2001	Total Nitrogen	0.666	mg/L		0.05	0.1
A764	6/17/2001	4	WG56152	L21071-102	SM4500-N-C (03-03-013-000)	6/29/2001	Total Nitrogen	0.869	mg/L		0.05	0.1
A764	6/17/2001	8.5	WG56152	L21071-103	SM4500-N-C (03-03-013-000)	6/29/2001	Total Nitrogen	1.75	mg/L		0.05	0.1
A764	7/30/2001	1	WG56749	L21435-36	SM4500-N-C (03-03-013-000)	8/2/2001	Total Nitrogen	0.478	mg/L		0.05	0.1
A764	8/13/2001	1	WG57212	L21609-36	SM4500-N-C (03-03-013-000)	8/22/2001	Total Nitrogen	0.48	mg/L		0.05	0.1
A764	8/27/2001	1	WG57478	L21709-101	SM4500-N-C (03-03-013-000)	9/11/2001	Total Nitrogen	0.48	mg/L		0.05	0.1
A764	8/27/2001	4	WG57478	L21709-102	SM4500-N-C (03-03-013-000)	9/11/2001	Total Nitrogen	0.444	mg/L		0.05	0.1
A764	8/27/2001	8.5	WG57478	L21709-103	SM4500-N-C (03-03-013-000)	9/11/2001	Total Nitrogen	2.91	mg/L		0.05	0.1
A764	9/10/2001	1	WG57815	L21809-36	SM4500-N-C (03-03-013-000)	9/26/2001	Total Nitrogen	0.513	mg/L		0.05	0.1
A764	9/24/2001	1	WG58279	L21824-36	SM4500-N-C (03-03-013-000)	10/18/2001	Total Nitrogen	0.54	mg/L		0.05	0.1
A764	10/8/2001	1	WG58138	L22103-36	SM4500-N-C (03-03-013-000)	10/11/2001	Total Nitrogen	0.448	mg/L		0.05	0.1
A764	10/22/2001	1	WG58420	L22234-36	SM4500-N-C (03-03-013-000)	10/25/2001	Total Nitrogen	0.477	mg/L		0.05	0.1
A764	5/4/2003	1	WG68653	L27871-53	SM4500-N-C (03-03-013-001)	5/8/2003	Total Nitrogen	0.869	mg/L		0.05	0.1
A764	5/18/2003	1	WG68956	L28143-38	SM4500-N-C (03-03-013-001)	5/28/2003	Total Nitrogen	0.598	mg/L		0.05	0.1
A764	5/18/2003	3.5	WG68956	L28143-39	SM4500-N-C (03-03-013-001)	5/28/2003	Total Nitrogen	0.654	mg/L		0.05	0.1
A764	5/18/2003	7	WG68956	L28143-37	SM4500-N-C (03-03-013-001)	5/28/2003	Total Nitrogen	1.1	mg/L		0.05	0.1
A764	6/1/2003	1	WG69177	L28276-51	SM4500-N-C (03-03-013-001)	6/11/2003	Total Nitrogen	0.528	mg/L		0.05	0.1
A764	6/16/2003	1	WG69461	L28429-51	SM4500-N-C (03-03-013-001)	6/26/2003	Total Nitrogen	0.564	mg/L		0.05	0.1
A764	6/29/2003	1	WG69649	L28533-51	SM4500-N-C (03-03-013-001)	7/8/2003	Total Nitrogen	0.689	mg/L		0.05	0.1
A764	7/13/2003	1	WG69824	L28694-51	SM4500-N-C (03-03-013-001)	7/16/2003	Total Nitrogen	0.805	mg/L		0.05	0.1
A764	7/27/2003	1	WG70062	L28809-50	SM4500-N-C (03-03-013-001)	7/31/2003	Total Nitrogen	0.585	mg/L		0.05	0.1
A764	8/10/2003	1	WG70324	L29054-51	SM4500-N-C (03-03-013-001)	8/13/2003	Total Nitrogen	0.47	mg/L		0.05	0.1
A764	8/24/2003	1	WG70551	L29147-51	SM4500-N-C (03-03-013-001)	8/28/2003	Total Nitrogen	0.466	mg/L		0.05	0.1
A764	9/8/2003	1	WG70795	L29305-37	SM4500-N-C (03-03-013-001)	9/26/2003	Total Nitrogen	0.574	mg/L		0.05	0.1
A764	9/8/2003	4	WG70795	L29305-38	SM4500-N-C (03-03-013-001)	9/26/2003	Total Nitrogen	0.462	mg/L		0.05	0.1
A764	9/8/2003	8.5	WG70795	L29305-39	SM4500-N-C (03-03-013-001)	9/26/2003	Total Nitrogen	3.17	mg/L		0.05	0.1
A764	10/6/2003	1	WG71297	L29664-51	SM4500-N-C (03-03-013-001)	10/21/2003	Total Nitrogen	0.761	mg/L		0.05	0.1
A764	10/19/2003	1	WG71625	L29775-51	SM4500-N-C (03-03-013-001)	11/6/2003	Total Nitrogen	0.651	mg/L		0.05	0.1
A764	5/10/2004	1	WG74465	L31727-49	SM4500-N-C (03-03-013-001)	5/18/2004	Total Nitrogen	0.574	mg/L		0.05	0.1
A764	5/24/2004	1	WG74678	L31830-37	SM4500-N-C (03-03-013-001)	6/7/2004	Total Nitrogen	0.657	mg/L		0.05	0.1
A764	5/24/2004	4	WG74678	L31830-38	SM4500-N-C (03-03-013-001)	6/7/2004	Total Nitrogen	0.633	mg/L		0.05	0.1
A764	5/24/2004	8.5	WG74678	L31830-39	SM4500-N-C (03-03-013-001)	6/7/2004	Total Nitrogen	1.39	mg/L		0.05	0.1
A764	6/7/2004	1	WG74955	L31873-13	SM4500-N-C (03-03-013-001)	6/11/2004	Total Nitrogen	0.451	mg/L		0.05	0.1
A764	6/21/2004	1	WG75176	L31999-13	SM4500-N-C (03-03-013-001)	6/24/2004	Total Nitrogen	0.506	mg/L		0.05	0.1
A764	7/6/2004	1	WG75333	L32160-13	SM4500-N-C (03-03-013-001)	7/8/2004	Total Nitrogen	0.913	mg/L		0.05	0.1
A764	7/19/2004	1	WG75590	L32163-13	SM4500-N-C (03-03-013-001)	7/22/2004	Total Nitrogen	1.05	mg/L		0.05	0.1
A764	8/2/2004	1	WG75768	L32305-13	SM4500-N-C (03-03-013-001)	8/5/2004	Total Nitrogen	0.776	mg/L		0.05	0.1

Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764	8/16/2004	1	WG75977	L32486-13	SM4500-N-C (03-03-013-001)	8/25/2004	Total Nitrogen	0.74	mg/L		0.05	0.1
A764	8/30/2004	1	WG76292	L32658-34	SM4500-N-C (03-03-013-001)	9/3/2004	Total Nitrogen	0.879	mg/L		0.05	0.1
A764	8/30/2004	4	WG76292	L32658-35	SM4500-N-C (03-03-013-001)	9/3/2004	Total Nitrogen	0.46	mg/L		0.05	0.1
A764	8/30/2004	8.5	WG76292	L32658-36	SM4500-N-C (03-03-013-001)	9/3/2004	Total Nitrogen	2.81	mg/L		0.05	0.1
A764	9/13/2004	1	WG76534	L32922-13	SM4500-N-C (03-03-013-001)	9/17/2004	Total Nitrogen	0.757	mg/L		0.05	0.1
A764	9/27/2004	1	WG76813	L33147-13	SM4500-N-C (03-03-013-001)	9/29/2004	Total Nitrogen	0.687	mg/L		0.05	0.1
A764	10/11/2004	1	WG77116	L33250-13	SM4500-N-C (03-03-013-001)	10/19/2004	Total Nitrogen	0.65	mg/L		0.05	0.1
A764	10/25/2004	1	WG77341	L33323-13	SM4500-N-C (03-03-013-001)	10/27/2004	Total Nitrogen	0.772	mg/L		0.05	0.1
A764	5/12/2005	1	WG80300	L35301-16	SM4500-N-C (03-03-013-002)	5/13/2005	Total Nitrogen	1.02	mg/L		0.05	0.1
A764	5/24/2005	1	WG80490	L35437-16	SM4500-N-C (03-03-013-002)	5/26/2005	Total Nitrogen	0.926	mg/L		0.05	0.1
A764	5/24/2005	4	WG80490	L35437-17	SM4500-N-C (03-03-013-002)	5/26/2005	Total Nitrogen	0.848	mg/L		0.05	0.1
A764	5/24/2005	8	WG80490	L35437-18	SM4500-N-C (03-03-013-002)	5/26/2005	Total Nitrogen	1.65	mg/L		0.05	0.1
A764	6/7/2005	1	WG80754	L35546-16	SM4500-N-C (03-03-013-002)	6/10/2005	Total Nitrogen	0.811	mg/L		0.05	0.1
A764	6/20/2005	1	WG80930	L35688-16	SM4500-N-C (03-03-013-002)	6/22/2005	Total Nitrogen	0.582	mg/L		0.05	0.1
A764	7/12/2005	1	WG81260	L35782-16	SM4500-N-C (03-03-013-002)	7/19/2005	Total Nitrogen	0.528	mg/L		0.05	0.1
A764	8/2/2005	1	WG81536	L35958-16	SM4500-N-C (03-03-013-002)	8/12/2005	Total Nitrogen	0.413	mg/L		0.05	0.1
A764	8/16/2005	1	WG81738	L36165-16	SM4500-N-C (03-03-013-002)	8/17/2005	Total Nitrogen	0.476	mg/L		0.05	0.1
A764	8/30/2005	1	WG82081	L36364-16	SM4500-N-C (03-03-013-002)	9/7/2005	Total Nitrogen	0.568	mg/L		0.05	0.1
A764	8/30/2005	4	WG82081	L36364-17	SM4500-N-C (03-03-013-002)	9/7/2005	Total Nitrogen	0.739	mg/L		0.05	0.1
A764	8/30/2005	7	WG82081	L36364-18	SM4500-N-C (03-03-013-002)	9/7/2005	Total Nitrogen	1.79	mg/L		0.05	0.1
A764	9/13/2005	1	WG82497	L36579-16	SM4500-N-C (03-03-013-002)	9/28/2005	Total Nitrogen	0.533	mg/L		0.05	0.1
A764	9/26/2005	1	WG82500	L36683-16	SM4500-N-C (03-03-013-002)	9/29/2005	Total Nitrogen	0.418	mg/L		0.05	0.1
A764	10/11/2005	1	WG82713	L36809-16	SM4500-N-C (03-03-013-002)	10/12/2005	Total Nitrogen	0.464	mg/L		0.05	0.1
A764	10/25/2005	1	WG82921	L36852-16	SM4500-N-C (03-03-013-002)	10/26/2005	Total Nitrogen	0.644	mg/L		0.05	0.1
A764	5/8/2006	1	WG85650	L38716-5	SM4500-N-C (03-03-013-002)	5/10/2006	Total Nitrogen	0.575	mg/L		0.05	0.1
A764	5/22/2006	1	WG85885	L38754-13	SM4500-N-C (03-03-013-002)	5/25/2006	Total Nitrogen	0.494	mg/L		0.05	0.1
A764	5/22/2006	4	WG85885	L38754-14	SM4500-N-C (03-03-013-002)	5/25/2006	Total Nitrogen	0.511	mg/L		0.05	0.1
A764	5/22/2006	8.5	WG85885	L38754-15	SM4500-N-C (03-03-013-002)	5/25/2006	Total Nitrogen	1.24	mg/L		0.05	0.1
A764	6/5/2006	1	WG86103	L39048-5	SM4500-N-C (03-03-013-002)	6/7/2006	Total Nitrogen	0.466	mg/L		0.05	0.1
A764	6/19/2006	1	WG86420	L39303-5	SM4500-N-C (03-03-013-002)	6/21/2006	Total Nitrogen	0.406	mg/L		0.05	0.1
A764	7/10/2006	1	WG86735	L39467-5	SM4500-N-C (03-03-013-002)	7/13/2006	Total Nitrogen	0.668	mg/L		0.05	0.1
A764	7/31/2006	1	WG87099	L39624-5	SM4500-N-C (03-03-013-002)	8/2/2006	Total Nitrogen	0.695	mg/L		0.05	0.1
A764	8/14/2006	1	WG87489	L39739-5	SM4500-N-C (03-03-013-002)	8/17/2006	Total Nitrogen	0.386	mg/L		0.05	0.1
A764	8/28/2006	1	WG87669	L39947-13	SM4500-N-C (03-03-013-002)	8/30/2006	Total Nitrogen	0.541	mg/L		0.05	0.1
A764	8/28/2006	4	WG87669	L39947-14	SM4500-N-C (03-03-013-002)	8/30/2006	Total Nitrogen	0.613	mg/L		0.05	0.1
A764	8/28/2006	8	WG87669	L39947-15	SM4500-N-C (03-03-013-002)	8/30/2006	Total Nitrogen	3.03	mg/L		0.05	0.1
A764	9/11/2006	1	WG88074	L40041-5	SM4500-N-C (03-03-013-002)	9/21/2006	Total Nitrogen	0.479	mg/L		0.05	0.1
A764	9/25/2006	1	WG88229	L40182-5	SM4500-N-C (03-03-013-002)	9/27/2006	Total Nitrogen	0.43	mg/L		0.05	0.1

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A764	10/9/2006	1	WG88478	L40413-5	SM4500-N-C (03-03-013-002)	10/11/2006	Total Nitrogen	0.575	mg/L		0.05	0.1
A764	10/23/2006	1	WG88704	L40579-5	SM4500-N-C (03-03-013-002)	10/25/2006	Total Nitrogen	0.504	mg/L		0.05	0.1
A764	5/7/2007	1	WG91443	L42386-6	SM4500-N-C (03-03-013-003)C	5/10/2007	Total Nitrogen	0.547	mg/L		0.05	0.1
A764	5/21/2007	1	WG91609	L42436-13	SM4500-N-C (03-03-013-003)C	5/24/2007	Total Nitrogen	0.455	mg/L		0.05	0.1
A764	5/21/2007	3	WG91609	L42436-14	SM4500-N-C (03-03-013-003)C	5/24/2007	Total Nitrogen	0.534	mg/L		0.05	0.1
A764	5/21/2007	7	WG91609	L42436-15	SM4500-N-C (03-03-013-003)C	5/24/2007	Total Nitrogen	0.544	mg/L		0.05	0.1
A764	6/4/2007	1	WG91916	L42706-6	SM4500-N-C (03-03-013-003)C	6/14/2007	Total Nitrogen	0.43	mg/L		0.05	0.1
A764	6/18/2007	1	WG92041	L42785-6	SM4500-N-C (03-03-013-003)C	6/21/2007	Total Nitrogen	0.404	mg/L		0.05	0.1
A764	7/9/2007	1	WG92297	L42956-6	SM4500-N-C (03-03-013-003)C	7/12/2007	Total Nitrogen	0.461	mg/L		0.05	0.1
A764	7/30/2007	1	WG92609	L43103-6	SM4500-N-C (03-03-013-003)C	8/2/2007	Total Nitrogen	0.552	mg/L		0.05	0.1
A764	8/13/2007	1	WG92972	L43253-6	SM4500-N-C (03-03-013-003)C	8/22/2007	Total Nitrogen	0.503	mg/L		0.05	0.1
A764	8/27/2007	1	WG93080	L43422-13	SM4500-N-C (03-03-013-003)C	8/30/2007	Total Nitrogen	0.478	mg/L		0.05	0.1
A764	8/27/2007	3	WG93080	L43422-14	SM4500-N-C (03-03-013-003)C	8/30/2007	Total Nitrogen	0.478	mg/L		0.05	0.1
A764	8/27/2007	7	WG93080	L43422-15	SM4500-N-C (03-03-013-003)C	8/30/2007	Total Nitrogen	2.56	mg/L		0.05	0.1
A764	9/10/2007	1	WG93411	L43622-6	SM4500-N-C (03-03-013-003)C	9/19/2007	Total Nitrogen	0.468	mg/L		0.05	0.1
A764	9/24/2007	1	WG93606	L43691-6	SM4500-N-C (03-03-013-003)C	10/3/2007	Total Nitrogen	0.438	mg/L		0.05	0.1
A764	10/8/2007	1	WG93813	L43858-6	SM4500-N-C (03-03-013-003)C	10/12/2007	Total Nitrogen	0.481	mg/L		0.05	0.1
A764	10/22/2007	1	WG94010	L44011-6	SM4500-N-C (03-03-013-003)C	10/25/2007	Total Nitrogen	0.825	mg/L		0.05	0.1
A764	5/5/2008	1	WG96475	L45458-6	SM4500-N-C (331V3)C	5/8/2008	Total Nitrogen	0.545	mg/L		0.05	0.1
A764	5/19/2008	1	WG96690	L45478-14	SM4500-N-C (331V3)C	5/22/2008	Total Nitrogen	0.48	mg/L		0.05	0.1
A764	5/19/2008	3	WG96690	L45478-15	SM4500-N-C (331V3)C	5/22/2008	Total Nitrogen	0.507	mg/L		0.05	0.1
A764	5/19/2008	7	WG96690	L45478-16	SM4500-N-C (331V3)C	5/22/2008	Total Nitrogen	1.02	mg/L		0.05	0.1
A764	6/2/2008	1	WG96998	L45601-6	SM4500-N-C (331V3)C	6/10/2008	Total Nitrogen	0.464	mg/L		0.05	0.1
A764	6/16/2008	1	WG97192	L45687-7	SM4500-N-C (331V3)C	6/26/2008	Total Nitrogen	0.578	mg/L		0.05	0.1
A764	6/30/2008	1	WG97380	L45807-6	SM4500-N-C (331V3)C	7/9/2008	Total Nitrogen	0.67	mg/L		0.05	0.1
A764	7/21/2008	1	WG97661	L45924-7	SM4500-N-C (331V3)C	7/24/2008	Total Nitrogen	0.401	mg/L		0.05	0.1
A764	8/11/2008	1	WG98025	L46082-6	SM4500-N-C (331V3)C	8/14/2008	Total Nitrogen	0.443	mg/L		0.05	0.1
A764	8/25/2008	1	WG98409	L46170-14	SM4500-N-C (331V3)C	9/3/2008	Total Nitrogen	0.496	mg/L		0.05	0.1
A764	8/25/2008	3	WG98409	L46170-15	SM4500-N-C (331V3)C	9/3/2008	Total Nitrogen	0.47	mg/L		0.05	0.1
A764	8/25/2008	7	WG98409	L46170-16	SM4500-N-C (331V3)C	9/3/2008	Total Nitrogen	1.82	mg/L		0.05	0.1
A764	9/8/2008	1	WG98577	L46293-6	SM4500-N-C (331V3)C	9/11/2008	Total Nitrogen	0.49	mg/L		0.05	0.1
A764	9/22/2008	1	WG98811	L46428-7	SM4500-N-C (331V3)C	10/8/2008	Total Nitrogen	0.495	mg/L		0.05	0.1
A764	10/6/2008	1	WG99007	L46491-6	SM4500-N-C (331V3)C	10/9/2008	Total Nitrogen	0.474	mg/L		0.05	0.1
A764	10/20/2008	1	WG99250	L46648-7	SM4500-N-C (331V3)C	10/27/2008	Total Nitrogen	0.612	mg/L		0.05	0.1
A764	5/4/2009	1	WG102157	L47861-4	SM4500-N-C	5/12/2009	Total Nitrogen	0.622	mg/L		0.05	0.1
A764	5/18/2009	1	WG102472	L47929-11	SM4500-N-C	5/27/2009	Total Nitrogen	0.503	mg/L		0.05	0.1
A764	5/18/2009	3	WG102472	L47929-12	SM4500-N-C	5/27/2009	Total Nitrogen	0.491	mg/L		0.05	0.1
A764	5/18/2009	7	WG102472	L47929-13	SM4500-N-C	5/27/2009	Total Nitrogen	0.92	mg/L		0.05	0.1

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A764	6/1/2009	1	WG102753	L48073-4	SM4500-N-C	6/4/2009	Total Nitrogen	0.515	mg/L		0.05	0.1
A764	6/15/2009	1	WG102984	L48142-5	SM4500-N-C	6/18/2009	Total Nitrogen	0.406	mg/L		0.05	0.1
A764	6/29/2009	1	WG103346	L48250-4	SM4500-N-C	7/10/2009	Total Nitrogen	0.356	mg/L		0.05	0.1
A764	7/13/2009	1	WG103453	L48283-4	SM4500-N-C	7/16/2009	Total Nitrogen	0.491	mg/L		0.05	0.1
A764	8/3/2009	1	WG103925	L48285-5	SM4500-N-C	8/5/2009	Total Nitrogen	0.496	mg/L		0.05	0.1
A764	8/17/2009	1	WG104479	L48327-4	SM4500-N-C	8/28/2009	Total Nitrogen	1.19	mg/L		0.05	0.1
A764	9/1/2009	1	WG104580	L48771-11	SM4500-N-C	9/3/2009	Total Nitrogen	1.44	mg/L		0.05	0.1
A764	9/1/2009	3	WG104580	L48771-12	SM4500-N-C	9/3/2009	Total Nitrogen	0.588	mg/L		0.05	0.1
A764	9/1/2009	7	WG104580	L48771-13	SM4500-N-C	9/3/2009	Total Nitrogen	1.34	mg/L		0.05	0.1
A764	9/14/2009	1	WG104745	L48908-4	SM4500-N-C	9/17/2009	Total Nitrogen	0.77	mg/L		0.05	0.1
A764	9/28/2009	1	WG105042	L49004-5	SM4500-N-C	10/1/2009	Total Nitrogen	0.651	mg/L		0.05	0.1
A764	10/19/2009	1	WG105675	L49146-4	SM4500-N-C	10/21/2009	Total Nitrogen	0.849	mg/L		0.05	0.1
A764	5/10/2010	1	WG109085	L50653-4	SM4500-N-C	5/20/2010	Total Nitrogen	0.506	mg/L		0.05	0.1
A764	5/24/2010	1	WG109353	L50716-10	SM4500-N-C	6/7/2010	Total Nitrogen	0.523	mg/L		0.05	0.1
A764	5/24/2010	3	WG109353	L50716-11	SM4500-N-C	6/7/2010	Total Nitrogen	0.255	mg/L		0.05	0.1
A764	5/24/2010	7	WG109353	L50716-12	SM4500-N-C	6/7/2010	Total Nitrogen	0.784	mg/L		0.05	0.1
A764	6/7/2010	1	WG109829	L50819-4	SM4500-N-C	6/30/2010	Total Nitrogen	0.863	mg/L		0.05	0.1
A764	6/21/2010	1	WG109829	L50936-4	SM4500-N-C	6/30/2010	Total Nitrogen	0.868	mg/L		0.05	0.1
A764	7/12/2010	1	WG110170	L51026-4	SM4500-N-C	7/26/2010	Total Nitrogen	0.48	mg/L		0.05	0.1
A764	7/26/2010	1	WG110379	L51116-4	SM4500-N-C	8/12/2010	Total Nitrogen	0.469	mg/L		0.05	0.1
A764	8/9/2010	1	WG110617	L51253-4	SM4500-N-C	8/30/2010	Total Nitrogen	0.62	mg/L		0.05	0.1
A764	8/23/2010	1	WG110971	L51305-10	SM4500-N-C	9/7/2010	Total Nitrogen	0.712	mg/L		0.05	0.1
A764	8/23/2010	3	WG110971	L51305-11	SM4500-N-C	9/7/2010	Total Nitrogen	0.815	mg/L		0.05	0.1
A764	8/23/2010	7	WG110971	L51305-12	SM4500-N-C	9/7/2010	Total Nitrogen	1.26	mg/L		0.05	0.1
A764	9/10/2010	6	WG123037	L56203-15	SM4500-N-C	9/12/2012	Total Nitrogen	0.869	mg/L		0.05	0.1
A764	9/13/2010	1	WG111270	L51497-4	SM4500-N-C	9/16/2010	Total Nitrogen	0.545	mg/L		0.05	0.1
A764	9/27/2010	1	WG111661	L51640-4	SM4500-N-C	10/4/2010	Total Nitrogen	0.46	mg/L		0.05	0.1
A764	10/11/2010	1	WG111942	L51714-4	SM4500-N-C	10/19/2010	Total Nitrogen	0.502	mg/L		0.05	0.1
A764	10/25/2010	1	WG112100	L51854-4	SM4500-N-C	11/16/2010	Total Nitrogen	0.569	mg/L		0.05	0.1
A764	5/9/2011	1	WG115170	L52948-4	SM4500-N-C	5/12/2011	Total Nitrogen	0.57	mg/L		0.05	0.1
A764	5/23/2011	1	WG115412	L53066-10	SM4500-N-C	5/25/2011	Total Nitrogen	0.56	mg/L		0.05	0.1
A764	5/23/2011	3	WG115412	L53066-11	SM4500-N-C	5/25/2011	Total Nitrogen	0.503	mg/L		0.05	0.1
A764	5/23/2011	7	WG115412	L53066-12	SM4500-N-C	5/25/2011	Total Nitrogen	0.718	mg/L		0.05	0.1
A764	6/6/2011	1	WG115594	L53252-4	SM4500-N-C	6/9/2011	Total Nitrogen	0.956	mg/L		0.05	0.1
A764	6/20/2011	1	WG115849	L53345-4	SM4500-N-C	6/22/2011	Total Nitrogen	0.54	mg/L		0.05	0.1
A764	7/11/2011	1	WG116177	L53346-4	SM4500-N-C	7/14/2011	Total Nitrogen	0.462	mg/L		0.05	0.1
A764	7/25/2011	1	WG116521	L53563-4	SM4500-N-C	8/4/2011	Total Nitrogen	0.471	mg/L		0.05	0.1
A764	8/8/2011	1	WG116735	L53727-4	SM4500-N-C	8/10/2011	Total Nitrogen	0.489	mg/L		0.05	0.1

Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764	8/22/2011	1	WG117056	L53787-10	SM4500-N-C	8/24/2011	Total Nitrogen	0.54	mg/L		0.05	0.1
A764	8/22/2011	3	WG117056	L53787-11	SM4500-N-C	8/24/2011	Total Nitrogen	0.688	mg/L		0.05	0.1
A764	8/22/2011	7	WG117056	L53787-12	SM4500-N-C	8/24/2011	Total Nitrogen	1.06	mg/L		0.05	0.1
A764	9/12/2011	1	WG117477	L53928-4	SM4500-N-C	9/21/2011	Total Nitrogen	0.459	mg/L		0.05	0.1
A764	9/26/2011	1	WG117621	L54100-4	SM4500-N-C	9/27/2011	Total Nitrogen	0.465	mg/L		0.05	0.1
A764	10/10/2011	1	WG117954	L54168-4	SM4500-N-C	10/13/2011	Total Nitrogen	0.419	mg/L		0.05	0.1
A764	10/24/2011	1	WG118215	L54313-4	SM4500-N-C	10/27/2011	Total Nitrogen	0.419	mg/L		0.05	0.1
A764	5/6/2001	1	WG55300	L20526-36	SM4500-P-B,Fmod(03-03-013-000)	5/17/2001	Total Phosphorus	0.0333	mg/L		0.005	0.01
A764	5/21/2001	1	WG55874	L20527-36	SM4500-P-B,Fmod(03-03-013-000)	6/1/2001	Total Phosphorus	0.0358	mg/L		0.005	0.01
A764	6/3/2001	1	WG56008	L20786-36	SM4500-P-B,Fmod(03-03-013-000)	6/19/2001	Total Phosphorus	0.0948	mg/L		0.005	0.01
A764	6/17/2001	1	WG56153	L21071-101	SM4500-P-B,Fmod(03-03-013-000)	6/29/2001	Total Phosphorus	0.0252	mg/L		0.005	0.01
A764	6/17/2001	4	WG56153	L21071-102	SM4500-P-B,Fmod(03-03-013-000)	6/29/2001	Total Phosphorus	0.0413	mg/L		0.005	0.01
A764	6/17/2001	8.5	WG56153	L21071-103	SM4500-P-B,Fmod(03-03-013-000)	6/29/2001	Total Phosphorus	0.377	mg/L		0.01	0.02
A764	7/30/2001	1	WG56748	L21435-36	SM4500-P-B,Fmod(03-03-013-000)	8/2/2001	Total Phosphorus	0.0189	mg/L		0.005	0.01
A764	8/13/2001	1	WG57214	L21609-36	SM4500-P-B,Fmod(03-03-013-000)	8/22/2001	Total Phosphorus	0.0222	mg/L		0.005	0.01
A764	8/27/2001	1	WG57477	L21709-101	SM4500-P-B,Fmod(03-03-013-000)	9/11/2001	Total Phosphorus	0.0206	mg/L		0.005	0.01
A764	8/27/2001	4	WG57477	L21709-102	SM4500-P-B,Fmod(03-03-013-000)	9/11/2001	Total Phosphorus	0.0213	mg/L		0.005	0.01
A764	8/27/2001	8.5	WG57477	L21709-103	SM4500-P-B,Fmod(03-03-013-000)	9/11/2001	Total Phosphorus	0.566	mg/L		0.025	0.05
A764	9/10/2001	1	WG57816	L21809-36	SM4500-P-B,Fmod(03-03-013-000)	9/26/2001	Total Phosphorus	0.0193	mg/L		0.005	0.01
A764	9/24/2001	1	WG58280	L21824-36	SM4500-P-B,Fmod(03-03-013-000)	10/18/2001	Total Phosphorus	0.0304	mg/L		0.005	0.01
A764	10/8/2001	1	WG58140	L22103-36	SM4500-P-B,Fmod(03-03-013-000)	10/11/2001	Total Phosphorus	0.0213	mg/L		0.005	0.01
A764	10/22/2001	1	WG58419	L22234-36	SM4500-P-B,Fmod(03-03-013-000)	10/25/2001	Total Phosphorus	0.0264	mg/L		0.005	0.01
A764	5/4/2003	1	WG68653	L27871-53	SM4500-P-B,FMOD(03-03-013-001)	5/8/2003	Total Phosphorus	0.0384	mg/L		0.005	0.01
A764	5/18/2003	1	WG68956	L28143-38	SM4500-P-B,FMOD(03-03-013-001)	5/28/2003	Total Phosphorus	0.0291	mg/L		0.005	0.01
A764	5/18/2003	3.5	WG68956	L28143-39	SM4500-P-B,FMOD(03-03-013-001)	5/28/2003	Total Phosphorus	0.0348	mg/L		0.005	0.01
A764	5/18/2003	7	WG68956	L28143-37	SM4500-P-B,FMOD(03-03-013-001)	5/28/2003	Total Phosphorus	0.0875	mg/L		0.005	0.01
A764	6/1/2003	1	WG69177	L28276-51	SM4500-P-B,FMOD(03-03-013-001)	6/11/2003	Total Phosphorus	0.0286	mg/L		0.005	0.01
A764	6/16/2003	1	WG69461	L28429-51	SM4500-P-B,FMOD(03-03-013-001)	6/26/2003	Total Phosphorus	0.0265	mg/L		0.005	0.01
A764	6/29/2003	1	WG69649	L28533-51	SM4500-P-B,FMOD(03-03-013-001)	7/8/2003	Total Phosphorus	0.0204	mg/L		0.005	0.01
A764	7/13/2003	1	WG69824	L28694-51	SM4500-P-B,FMOD(03-03-013-001)	7/16/2003	Total Phosphorus	0.0189	mg/L		0.005	0.01
A764	7/27/2003	1	WG70062	L28809-50	SM4500-P-B,FMOD(03-03-013-001)	7/31/2003	Total Phosphorus	0.0165	mg/L		0.005	0.01
A764	8/10/2003	1	WG70324	L29054-51	SM4500-P-B,FMOD(03-03-013-001)	8/13/2003	Total Phosphorus	0.0141	mg/L		0.005	0.01
A764	8/24/2003	1	WG70551	L29147-51	SM4500-P-B,FMOD(03-03-013-001)	8/28/2003	Total Phosphorus	0.0183	mg/L		0.005	0.01
A764	9/8/2003	1	WG70795	L29305-37	SM4500-P-B,FMOD(03-03-013-001)	9/26/2003	Total Phosphorus	0.0269	mg/L		0.005	0.01
A764	9/8/2003	4	WG70795	L29305-38	SM4500-P-B,FMOD(03-03-013-001)	9/26/2003	Total Phosphorus	0.029	mg/L		0.005	0.01
A764	9/8/2003	8.5	WG70795	L29305-39	SM4500-P-B,FMOD(03-03-013-001)	9/26/2003	Total Phosphorus	0.946	mg/L		0.025	0.05
A764	10/6/2003	1	WG71297	L29664-51	SM4500-P-B,FMOD(03-03-013-001)	10/21/2003	Total Phosphorus	0.0286	mg/L		0.005	0.01
A764	10/19/2003	1	WG71625	L29775-51	SM4500-P-B,FMOD(03-03-013-001)	11/6/2003	Total Phosphorus	0.0392	mg/L		0.005	0.01

Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764	5/10/2004	1	WG74465	L31727-49	SM4500-P-B,FMOD(03-03-013-001)	5/18/2004	Total Phosphorus	0.0385	mg/L		0.005	0.01
A764	5/24/2004	1	WG74678	L31830-37	SM4500-P-B,FMOD(03-03-013-001)	6/7/2004	Total Phosphorus	0.0359	mg/L		0.005	0.01
A764	5/24/2004	4	WG74678	L31830-38	SM4500-P-B,FMOD(03-03-013-001)	6/7/2004	Total Phosphorus	0.0521	mg/L		0.005	0.01
A764	5/24/2004	8.5	WG74678	L31830-39	SM4500-P-B,FMOD(03-03-013-001)	6/7/2004	Total Phosphorus	0.339	mg/L		0.005	0.01
A764	6/7/2004	1	WG74955	L31873-13	SM4500-P-B,FMOD(03-03-013-001)	6/11/2004	Total Phosphorus	0.0236	mg/L		0.005	0.01
A764	6/21/2004	1	WG75176	L31999-13	SM4500-P-B,FMOD(03-03-013-001)	6/24/2004	Total Phosphorus	0.0319	mg/L		0.005	0.01
A764	7/6/2004	1	WG75333	L32160-13	SM4500-P-B,FMOD(03-03-013-001)	7/12/2004	Total Phosphorus	0.0382	mg/L		0.005	0.01
A764	7/19/2004	1	WG75590	L32163-13	SM4500-P-B,FMOD(03-03-013-001)	7/22/2004	Total Phosphorus	0.0401	mg/L		0.005	0.01
A764	8/2/2004	1	WG75768	L32305-13	SM4500-P-B,FMOD(03-03-013-001)	8/5/2004	Total Phosphorus	0.0597	mg/L		0.005	0.01
A764	8/16/2004	1	WG75977	L32486-13	SM4500-P-B,FMOD(03-03-013-001)	8/25/2004	Total Phosphorus	0.032	mg/L		0.005	0.01
A764	8/30/2004	1	WG76292	L32658-34	SM4500-P-B,FMOD(03-03-013-001)	9/3/2004	Total Phosphorus	0.0302	mg/L		0.005	0.01
A764	8/30/2004	4	WG76292	L32658-35	SM4500-P-B,FMOD(03-03-013-001)	9/3/2004	Total Phosphorus	0.0198	mg/L		0.005	0.01
A764	8/30/2004	8.5	WG76292	L32658-36	SM4500-P-B,FMOD(03-03-013-001)	9/3/2004	Total Phosphorus	0.709	mg/L		0.015	0.03
A764	9/13/2004	1	WG76534	L32922-13	SM4500-P-B,FMOD(03-03-013-001)	9/17/2004	Total Phosphorus	0.0172	mg/L		0.005	0.01
A764	9/27/2004	1	WG76813	L33147-13	SM4500-P-B,FMOD(03-03-013-001)	9/29/2004	Total Phosphorus	0.0198	mg/L		0.005	0.01
A764	10/11/2004	1	WG77116	L33250-13	SM4500-P-B,FMOD(03-03-013-001)	10/19/2004	Total Phosphorus	0.0201	mg/L		0.005	0.01
A764	10/25/2004	1	WG77341	L33323-13	SM4500-P-B,FMOD(03-03-013-001)	10/27/2004	Total Phosphorus	0.0446	mg/L		0.005	0.01
A764	5/12/2005	1	WG80300	L35301-16	SM4500-P-B,FMOD(03-03-013-002)	5/13/2005	Total Phosphorus	0.0432	mg/L		0.005	0.01
A764	5/24/2005	1	WG80490	L35437-16	SM4500-P-B,FMOD(03-03-013-002)	5/26/2005	Total Phosphorus	0.0431	mg/L		0.005	0.01
A764	5/24/2005	4	WG80490	L35437-17	SM4500-P-B,FMOD(03-03-013-002)	5/26/2005	Total Phosphorus	0.0524	mg/L		0.005	0.01
A764	5/24/2005	8	WG80490	L35437-18	SM4500-P-B,FMOD(03-03-013-002)	5/26/2005	Total Phosphorus	0.357	mg/L		0.02	0.04
A764	6/7/2005	1	WG80802	L35546-16	SM4500-P-B,FMOD(03-03-013-002)	6/13/2005	Total Phosphorus	0.0376	mg/L		0.005	0.01
A764	6/20/2005	1	WG80930	L35688-16	SM4500-P-B,FMOD(03-03-013-002)	6/22/2005	Total Phosphorus	0.0233	mg/L		0.005	0.01
A764	7/12/2005	1	WG81260	L35782-16	SM4500-P-B,FMOD(03-03-013-002)	7/19/2005	Total Phosphorus	0.0293	mg/L		0.005	0.01
A764	8/2/2005	1	WG81536	L35958-16	SM4500-P-B,FMOD(03-03-013-002)	8/12/2005	Total Phosphorus	0.0165	mg/L		0.005	0.01
A764	8/16/2005	1	WG81738	L36165-16	SM4500-P-B,FMOD(03-03-013-002)	8/17/2005	Total Phosphorus	0.0202	mg/L		0.005	0.01
A764	8/30/2005	1	WG82081	L36364-16	SM4500-P-B,FMOD(03-03-013-002)	9/7/2005	Total Phosphorus	0.0283	mg/L		0.005	0.01
A764	8/30/2005	4	WG82081	L36364-17	SM4500-P-B,FMOD(03-03-013-002)	9/7/2005	Total Phosphorus	0.0526	mg/L		0.005	0.01
A764	8/30/2005	7	WG82081	L36364-18	SM4500-P-B,FMOD(03-03-013-002)	9/7/2005	Total Phosphorus	0.39	mg/L		0.005	0.01
A764	9/13/2005	1	WG82497	L36579-16	SM4500-P-B,FMOD(03-03-013-002)	9/28/2005	Total Phosphorus	0.0209	mg/L		0.005	0.01
A764	9/26/2005	1	WG82623	L36683-16	SM4500-P-B,FMOD(03-03-013-002)	10/5/2005	Total Phosphorus	0.017	mg/L		0.005	0.01
A764	10/11/2005	1	WG82713	L36809-16	SM4500-P-B,FMOD(03-03-013-002)	10/12/2005	Total Phosphorus	0.0173	mg/L		0.005	0.01
A764	10/25/2005	1	WG82921	L36852-16	SM4500-P-B,FMOD(03-03-013-002)	10/26/2005	Total Phosphorus	0.0231	mg/L		0.005	0.01
A764	5/8/2006	1	WG85650	L38716-5	SM4500-P-B,FMOD(03-03-013-002)	5/10/2006	Total Phosphorus	0.0246	mg/L		0.005	0.01
A764	5/22/2006	1	WG85885	L38754-13	SM4500-P-B,FMOD(03-03-013-002)	5/25/2006	Total Phosphorus	0.0184	mg/L		0.005	0.01
A764	5/22/2006	4	WG85885	L38754-14	SM4500-P-B,FMOD(03-03-013-002)	5/25/2006	Total Phosphorus	0.0291	mg/L		0.005	0.01
A764	5/22/2006	8.5	WG85885	L38754-15	SM4500-P-B,FMOD(03-03-013-002)	5/25/2006	Total Phosphorus	0.267	mg/L		0.02	0.04
A764	6/5/2006	1	WG86103	L39048-5	SM4500-P-B,FMOD(03-03-013-002)	6/7/2006	Total Phosphorus	0.029	mg/L		0.005	0.01

Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764	6/19/2006	1	WG86420	L39303-5	SM4500-P-B,FMOD(03-03-013-002)	6/21/2006	Total Phosphorus	0.0191	mg/L		0.005	0.01
A764	7/10/2006	1	WG86735	L39467-5	SM4500-P-B,FMOD(03-03-013-002)	7/13/2006	Total Phosphorus	0.0205	mg/L		0.005	0.01
A764	7/31/2006	1	WG87099	L39624-5	SM4500-P-B,FMOD(03-03-013-002)	8/4/2006	Total Phosphorus	0.0176	mg/L		0.005	0.01
A764	8/14/2006	1	WG87489	L39739-5	SM4500-P-B,FMOD(03-03-013-002)	8/17/2006	Total Phosphorus	0.0151	mg/L		0.005	0.01
A764	8/28/2006	1	WG87669	L39947-13	SM4500-P-B,FMOD(03-03-013-002)	8/30/2006	Total Phosphorus	0.0246	mg/L		0.005	0.01
A764	8/28/2006	4	WG87669	L39947-14	SM4500-P-B,FMOD(03-03-013-002)	8/30/2006	Total Phosphorus	0.0241	mg/L		0.005	0.01
A764	8/28/2006	8	WG87669	L39947-15	SM4500-P-B,FMOD(03-03-013-002)	8/31/2006	Total Phosphorus	0.85	mg/L	TA	0.1	0.2
A764	9/11/2006	1	WG88074	L40041-5	SM4500-P-B,FMOD(03-03-013-002)	9/21/2006	Total Phosphorus	0.0162	mg/L		0.005	0.01
A764	9/25/2006	1	WG88229	L40182-5	SM4500-P-B,FMOD(03-03-013-002)	9/27/2006	Total Phosphorus	0.0195	mg/L		0.005	0.01
A764	10/9/2006	1	WG88478	L40413-5	SM4500-P-B,FMOD(03-03-013-002)	10/11/2006	Total Phosphorus	0.0329	mg/L		0.005	0.01
A764	10/23/2006	1	WG88704	L40579-5	SM4500-P-B,FMOD(03-03-013-002)	10/25/2006	Total Phosphorus	0.0263	mg/L		0.005	0.01
A764	5/7/2007	1	WG91443	L42386-6	SM4500-P-B,F(03-03-013-003)C	5/10/2007	Total Phosphorus	0.0289	mg/L		0.005	0.01
A764	5/21/2007	1	WG91609	L42436-13	SM4500-P-B,F(03-03-013-003)C	5/24/2007	Total Phosphorus	0.0255	mg/L		0.005	0.01
A764	5/21/2007	3	WG91609	L42436-14	SM4500-P-B,F(03-03-013-003)C	5/24/2007	Total Phosphorus	0.0286	mg/L		0.005	0.01
A764	5/21/2007	7	WG91609	L42436-15	SM4500-P-B,F(03-03-013-003)C	5/24/2007	Total Phosphorus	0.0552	mg/L		0.005	0.01
A764	6/4/2007	1	WG91916	L42706-6	SM4500-P-B,F(03-03-013-003)C	6/14/2007	Total Phosphorus	0.0239	mg/L		0.005	0.01
A764	6/18/2007	1	WG92041	L42785-6	SM4500-P-B,F(03-03-013-003)C	6/21/2007	Total Phosphorus	0.0268	mg/L		0.005	0.01
A764	7/9/2007	1	WG92297	L42956-6	SM4500-P-B,F(03-03-013-003)C	7/12/2007	Total Phosphorus	0.0259	mg/L		0.005	0.01
A764	7/30/2007	1	WG92609	L43103-6	SM4500-P-B,F(03-03-013-003)C	8/2/2007	Total Phosphorus	0.0276	mg/L		0.005	0.01
A764	8/13/2007	1	WG92972	L43253-6	SM4500-P-B,F(03-03-013-003)C	8/22/2007	Total Phosphorus	0.0316	mg/L		0.005	0.01
A764	8/27/2007	1	WG93080	L43422-13	SM4500-P-B,F(03-03-013-003)C	8/30/2007	Total Phosphorus	0.0293	mg/L		0.005	0.01
A764	8/27/2007	3	WG93080	L43422-14	SM4500-P-B,F(03-03-013-003)C	8/30/2007	Total Phosphorus	0.0299	mg/L		0.005	0.01
A764	8/27/2007	7	WG93080	L43422-15	SM4500-P-B,F(03-03-013-003)C	8/30/2007	Total Phosphorus	1.05	mg/L		0.05	0.1
A764	9/10/2007	1	WG93411	L43622-6	SM4500-P-B,F(03-03-013-003)C	9/19/2007	Total Phosphorus	0.0356	mg/L		0.005	0.01
A764	9/24/2007	1	WG93606	L43691-6	SM4500-P-B,F(03-03-013-003)C	10/3/2007	Total Phosphorus	0.0326	mg/L		0.005	0.01
A764	10/8/2007	1	WG93813	L43858-6	SM4500-P-B,F(03-03-013-003)C	10/12/2007	Total Phosphorus	0.0392	mg/L		0.005	0.01
A764	10/22/2007	1	WG94010	L44011-6	SM4500-P-B,F(03-03-013-003)C	10/25/2007	Total Phosphorus	0.137	mg/L		0.005	0.01
A764	5/5/2008	1	WG96475	L45458-6	SM4500-P-B,F(331V3)C	5/8/2008	Total Phosphorus	0.0235	mg/L		0.005	0.01
A764	5/19/2008	1	WG96690	L45478-14	SM4500-P-B,F(331V3)C	5/22/2008	Total Phosphorus	0.0214	mg/L		0.005	0.01
A764	5/19/2008	3	WG96690	L45478-15	SM4500-P-B,F(331V3)C	5/22/2008	Total Phosphorus	0.0279	mg/L		0.005	0.01
A764	5/19/2008	7	WG96690	L45478-16	SM4500-P-B,F(331V3)C	5/22/2008	Total Phosphorus	0.308	mg/L		0.005	0.01
A764	6/2/2008	1	WG96998	L45601-6	SM4500-P-B,F(331V3)C	6/10/2008	Total Phosphorus	0.0269	mg/L		0.005	0.01
A764	6/16/2008	1	WG97192	L45687-7	SM4500-P-B,F(331V3)C	6/26/2008	Total Phosphorus	0.0273	mg/L		0.005	0.01
A764	6/30/2008	1	WG97380	L45807-6	SM4500-P-B,F(331V3)C	7/9/2008	Total Phosphorus	0.0268	mg/L		0.005	0.01
A764	7/21/2008	1	WG97661	L45924-7	SM4500-P-B,F(331V3)C	7/24/2008	Total Phosphorus	0.0148	mg/L		0.005	0.01
A764	8/11/2008	1	WG98025	L46082-6	SM4500-P-B,F(331V3)C	8/14/2008	Total Phosphorus	0.0182	mg/L		0.005	0.01
A764	8/25/2008	1	WG98409	L46170-14	SM4500-P-B,F(331V3)C	9/3/2008	Total Phosphorus	0.0346	mg/L		0.005	0.01
A764	8/25/2008	3	WG98409	L46170-15	SM4500-P-B,F(331V3)C	9/3/2008	Total Phosphorus	0.0347	mg/L		0.005	0.01

Appendix A: Data Validation Results

Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764	8/25/2008	7	WG98409	L46170-16	SM4500-P-B,F(331V3)C	9/3/2008	Total Phosphorus	0.673	mg/L		0.025	0.05
A764	9/8/2008	1	WG98577	L46293-6	SM4500-P-B,F(331V3)C	9/11/2008	Total Phosphorus	0.0315	mg/L		0.005	0.01
A764	9/22/2008	1	WG98811	L46428-7	SM4500-P-B,F(331V3)C	10/8/2008	Total Phosphorus	0.0338	mg/L		0.005	0.01
A764	10/6/2008	1	WG99007	L46491-6	SM4500-P-B,F(331V3)C	10/9/2008	Total Phosphorus	0.0269	mg/L		0.005	0.01
A764	10/20/2008	1	WG99250	L46648-7	SM4500-P-B,F(331V3)C	10/27/2008	Total Phosphorus	0.0572	mg/L		0.005	0.01
A764	5/4/2009	1	WG102157	L47861-4	SM4500-P-B,F	5/12/2009	Total Phosphorus	0.0296	mg/L		0.005	0.01
A764	5/18/2009	1	WG102472	L47929-11	SM4500-P-B,F	5/27/2009	Total Phosphorus	0.0212	mg/L		0.005	0.01
A764	5/18/2009	3	WG102472	L47929-12	SM4500-P-B,F	5/27/2009	Total Phosphorus	0.0263	mg/L		0.005	0.01
A764	5/18/2009	7	WG102472	L47929-13	SM4500-P-B,F	5/27/2009	Total Phosphorus	0.19	mg/L		0.005	0.01
A764	6/1/2009	1	WG102753	L48073-4	SM4500-P-B,F	6/4/2009	Total Phosphorus	0.0321	mg/L		0.005	0.01
A764	6/15/2009	1	WG102984	L48142-5	SM4500-P-B,F	6/18/2009	Total Phosphorus	0.0303	mg/L		0.005	0.01
A764	6/29/2009	1	WG103346	L48250-4	SM4500-P-B,F	7/10/2009	Total Phosphorus	0.0233	mg/L		0.005	0.01
A764	7/13/2009	1	WG103453	L48283-4	SM4500-P-B,F	7/16/2009	Total Phosphorus	0.0365	mg/L		0.005	0.01
A764	8/3/2009	1	WG103925	L48285-5	SM4500-P-B,F	8/5/2009	Total Phosphorus	0.0177	mg/L		0.005	0.01
A764	8/17/2009	1	WG104479	L48327-4	SM4500-P-B,F	8/28/2009	Total Phosphorus	0.0424	mg/L		0.005	0.01
A764	9/1/2009	1	WG104580	L48771-11	SM4500-P-B,F	9/3/2009	Total Phosphorus	0.0484	mg/L		0.005	0.01
A764	9/1/2009	3	WG104580	L48771-12	SM4500-P-B,F	9/3/2009	Total Phosphorus	0.0205	mg/L		0.005	0.01
A764	9/1/2009	7	WG104580	L48771-13	SM4500-P-B,F	9/3/2009	Total Phosphorus	0.478	mg/L		0.05	0.1
A764	9/14/2009	1	WG104745	L48908-4	SM4500-P-B,F	9/17/2009	Total Phosphorus	0.0242	mg/L		0.005	0.01
A764	9/28/2009	1	WG105042	L49004-5	SM4500-P-B,F	10/1/2009	Total Phosphorus	0.0254	mg/L		0.005	0.01
A764	10/19/2009	1	WG105675	L49146-4	SM4500-P-B,F	10/21/2009	Total Phosphorus	0.0732	mg/L		0.005	0.01
A764	5/10/2010	1	WG109085	L50653-4	SM4500-P-B,F	5/20/2010	Total Phosphorus	0.0493	mg/L		0.005	0.01
A764	5/24/2010	1	WG109353	L50716-10	SM4500-P-B,F	6/7/2010	Total Phosphorus	0.0551	mg/L		0.005	0.01
A764	5/24/2010	3	WG109353	L50716-11	SM4500-P-B,F	6/7/2010	Total Phosphorus	0.027	mg/L		0.005	0.01
A764	5/24/2010	7	WG109353	L50716-12	SM4500-P-B,F	6/7/2010	Total Phosphorus	0.103	mg/L		0.005	0.01
A764	6/7/2010	1	WG109829	L50819-4	SM4500-P-B,F	6/30/2010	Total Phosphorus	0.0648	mg/L		0.005	0.01
A764	6/21/2010	1	WG109829	L50936-4	SM4500-P-B,F	6/30/2010	Total Phosphorus	0.0775	mg/L		0.005	0.01
A764	7/12/2010	1	WG110170	L51026-4	SM4500-P-B,F	7/26/2010	Total Phosphorus	0.0309	mg/L		0.005	0.01
A764	7/26/2010	1	WG110379	L51116-4	SM4500-P-B,F	8/12/2010	Total Phosphorus	0.0189	mg/L		0.005	0.01
A764	8/9/2010	1	WG110617	L51253-4	SM4500-P-B,F	8/30/2010	Total Phosphorus	0.0338	mg/L		0.005	0.01
A764	8/23/2010	1	WG110971	L51305-10	SM4500-P-B,F	9/7/2010	Total Phosphorus	0.0269	mg/L		0.005	0.01
A764	8/23/2010	3	WG110971	L51305-11	SM4500-P-B,F	9/7/2010	Total Phosphorus	0.0475	mg/L		0.005	0.01
A764	8/23/2010	7	WG110971	L51305-12	SM4500-P-B,F	9/7/2010	Total Phosphorus	0.431	mg/L		0.01	0.02
A764	9/10/2010	6	WG123037	L56203-15	SM4500-P-B,F	9/12/2012	Total Phosphorus	0.0837	mg/L		0.005	0.01
A764	9/13/2010	1	WG111270	L51497-4	SM4500-P-B,F	9/16/2010	Total Phosphorus	0.028	mg/L		0.005	0.01
A764	9/27/2010	1	WG111661	L51640-4	SM4500-P-B,F	10/4/2010	Total Phosphorus	0.0267	mg/L		0.005	0.01
A764	10/11/2010	1	WG111942	L51714-4	SM4500-P-B,F	10/19/2010	Total Phosphorus	0.0221	mg/L		0.005	0.01
A764	10/25/2010	1	WG112100	L51854-4	SM4500-P-B,F	11/16/2010	Total Phosphorus	0.0342	mg/L		0.005	0.01

Appendix A: Data Validation Results

Locator	Date Collected	Sample Depth (m)	Workgroup	Lab Sample ID	Method	Date Analyzed	Parameter	Lab Value	Units	Lab Qualifier	MDL	RDL
A764	5/9/2011	1	WG115170	L52948-4	SM4500-P-B,F	5/12/2011	Total Phosphorus	0.0488	mg/L		0.005	0.01
A764	5/23/2011	1	WG115412	L53066-10	SM4500-P-B,F	5/25/2011	Total Phosphorus	0.0532	mg/L		0.005	0.01
A764	5/23/2011	3	WG115412	L53066-11	SM4500-P-B,F	5/25/2011	Total Phosphorus	0.0503	mg/L		0.005	0.01
A764	5/23/2011	7	WG115412	L53066-12	SM4500-P-B,F	5/25/2011	Total Phosphorus	0.0755	mg/L		0.005	0.01
A764	6/6/2011	1	WG115594	L53252-4	SM4500-P-B,F	6/8/2011	Total Phosphorus	0.0963	mg/L		0.005	0.01
A764	6/20/2011	1	WG115849	L53345-4	SM4500-P-B,F	6/22/2011	Total Phosphorus	0.0255	mg/L		0.005	0.01
A764	7/11/2011	1	WG116177	L53346-4	SM4500-P-B,F	7/14/2011	Total Phosphorus	0.0261	mg/L		0.005	0.01
A764	7/25/2011	1	WG116521	L53563-4	SM4500-P-B,F	8/4/2011	Total Phosphorus	0.0231	mg/L		0.005	0.01
A764	8/8/2011	1	WG116735	L53727-4	SM4500-P-B,F	8/10/2011	Total Phosphorus	0.0205	mg/L		0.005	0.01
A764	8/22/2011	1	WG117056	L53787-10	SM4500-P-B,F	8/24/2011	Total Phosphorus	0.0215	mg/L		0.005	0.01
A764	8/22/2011	3	WG117056	L53787-11	SM4500-P-B,F	8/24/2011	Total Phosphorus	0.0598	mg/L		0.005	0.01
A764	8/22/2011	7	WG117056	L53787-12	SM4500-P-B,F	8/24/2011	Total Phosphorus	0.437	mg/L		0.015	0.03
A764	9/12/2011	1	WG117477	L53928-4	SM4500-P-B,F	9/21/2011	Total Phosphorus	0.0192	mg/L		0.005	0.01
A764	9/26/2011	1	WG117621	L54100-4	SM4500-P-B,F	9/27/2011	Total Phosphorus	0.0235	mg/L		0.005	0.01
A764	10/10/2011	1	WG117954	L54168-4	SM4500-P-B,F	10/13/2011	Total Phosphorus	0.0218	mg/L		0.005	0.01
A764	10/24/2011	1	WG118215	L54313-4	SM4500-P-B,F	10/27/2011	Total Phosphorus	0.0275	mg/L		0.005	0.01

Appendix A: Data Validation Results

Validated Data

KEY:

DV = data validation; U = non-detect; UJ = estimated non-detect; J = estimated value; R = rejected value

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L35437-16	Ammonia Nitrogen	0.134				
L35437-18	Ammonia Nitrogen	1.07				
L36364-16	Ammonia Nitrogen	0.01	U			
L36364-18	Ammonia Nitrogen	1.35				
L38754-13	Ammonia Nitrogen	0.0437				
L38754-15	Ammonia Nitrogen	0.746				
L39947-13	Ammonia Nitrogen	0.025				
L39947-15	Ammonia Nitrogen	2.4				
L42436-13	Ammonia Nitrogen	0.01	UJ	unknown		Samples analyzed 16 days past holding time.
L42436-15	Ammonia Nitrogen	0.01	UJ	unknown		Samples analyzed 16 days past holding time.
L43422-13	Ammonia Nitrogen	0.01	U			
L43422-15	Ammonia Nitrogen	2.25				
L45478-14	Ammonia Nitrogen	0.0205				
L45478-16	Ammonia Nitrogen	0.729				
L46170-14	Ammonia Nitrogen	0.01	U			
L46170-16	Ammonia Nitrogen	1.58				
L47929-11	Ammonia Nitrogen	0.0177	J	unknown		Filtered 1 day beyond holding time
L47929-13	Ammonia Nitrogen	0.603	J	unknown		Filtered 1 day beyond holding time
L48771-11	Ammonia Nitrogen	0.005	U			
L48771-13	Ammonia Nitrogen	1.18				
L50716-10	Ammonia Nitrogen	0.01	U			
L50716-12	Ammonia Nitrogen	0.323				
L51305-10	Ammonia Nitrogen	0.005	U			
L51305-12	Ammonia Nitrogen	0.867				
L53066-10	Ammonia Nitrogen	0.0062	J	unknown		Frozen prior to filtration. Filtered one day past the 1 day hold time.
L53066-12	Ammonia Nitrogen	0.173	J	unknown		Frozen prior to filtration. Filtered one day past the 1 day hold time.
L53787-10	Ammonia Nitrogen	0.005	U			
L53787-12	Ammonia Nitrogen	0.608				
L20526-36	Chlorophyll a	6.9				
L20527-36	Chlorophyll a	8.73				
L20786-36	Chlorophyll a	14.9				
L21071-101	Chlorophyll a	10.2				
L21071-102	Chlorophyll a	18.5				

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L21435-36	Chlorophyll a	8.75				
L21609-36	Chlorophyll a	5.89				
L21709-101	Chlorophyll a	11.7				
L21709-102	Chlorophyll a	16.2				
L21809-36	Chlorophyll a	11.3				
L21824-36	Chlorophyll a	11.9				
L22103-36	Chlorophyll a	9.75				
L22234-36	Chlorophyll a	8.72				
L27871-53	Chlorophyll a	22.3				
L28143-38	Chlorophyll a	9.93				
L28143-39	Chlorophyll a	13.8				
L28143-37	Chlorophyll a	4.17				
L28276-51	Chlorophyll a	21.2				
L28429-51	Chlorophyll a	4.61				
L28533-51	Chlorophyll a	8.41				
L28694-51	Chlorophyll a	6.14				
L28809-50	Chlorophyll a	4.49				
L29054-51	Chlorophyll a	6.51				
L29147-51	Chlorophyll a	7.08				
L29305-37	Chlorophyll a	20.9	J	high		Trichromatic equation used to calculate CHLA
L29305-38	Chlorophyll a	10.4				
L29305-39	Chlorophyll a	46.1	J	high		Trichromatic equation used to calculate chlorophyll-a
L29664-51	Chlorophyll a	8.17				
L29775-51	Chlorophyll a	10.6	J	low		Sample received one day past holding time
L31727-49	Chlorophyll a	10.1				
L31830-37	Chlorophyll a	6.25				
L31830-38	Chlorophyll a	7.69				
L31830-39	Chlorophyll a	9.75	J	high		Calculated using the trichromatic equation.
L31873-13	Chlorophyll a	14.3				
L31999-13	Chlorophyll a	11.9				
L32160-13	Chlorophyll a	26.1				
L32163-13	Chlorophyll a	12.5				
L32305-13	Chlorophyll a	5.61				
L32486-13	Chlorophyll a	3.68	J	low		Sample received and filtered 1 day past HT.
L32658-34	Chlorophyll a	29.5				
L32658-35	Chlorophyll a	3.36				
L32922-13	Chlorophyll a	28.6				
L33147-13	Chlorophyll a	21.3				

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L33250-13	Chlorophyll a	5.29				
L33323-13	Chlorophyll a	3.2				
L35301-16	Chlorophyll a	8.48				
L35437-16	Chlorophyll a	6.35				
L35437-17	Chlorophyll a	5.86				
L35437-18	Chlorophyll a	5.27	J	unknown		Interfering species detected in sample extract. Result calculated using Lorenzen equations.
L35546-16	Chlorophyll a	30.9				
L35688-16	Chlorophyll a	5.02				
L35782-16	Chlorophyll a	28.5				
L35958-16	Chlorophyll a	3.41				
L36165-16	Chlorophyll a	9.62				
L36364-16	Chlorophyll a	16.1				
L36364-17	Chlorophyll a	71.7				
L36364-18	Chlorophyll a	18.2	J	high		Calculated using trichromatic equation. 430nm peak greater than 410nm peak. CHLA peak shifted to 654nm.
L36579-16	Chlorophyll a	12.2				
L36683-16	Chlorophyll a	10.7				
L36809-16	Chlorophyll a	11.3				
L36852-16	Chlorophyll a	19.7				
L38716-5	Chlorophyll a	6.85				
L38754-13	Chlorophyll a	1.56				
L38754-14	Chlorophyll a	3.12				
L38754-15	Chlorophyll a	5.2				
L39048-5	Chlorophyll a	7.42				
L39303-5	Chlorophyll a	8.06				
L39467-5	Chlorophyll a	24.8				
L39624-5	Chlorophyll a	12.4				
L39739-5	Chlorophyll a	1.82				
L39947-13	Chlorophyll a	3.67				
L39947-14	Chlorophyll a	14.5				
L39947-15	Chlorophyll a	34.8	J	high		CHLA peak shifted to 654 nm. CHLA result calculated using the trichromatic equation. 430 nm peak greater than 410 nm peak.
L40041-5	Chlorophyll a	13.6				
L40182-5	Chlorophyll a	9.94				
L40413-5	Chlorophyll a	13.1				
L40579-5	Chlorophyll a	12.2				
L42386-6	Chlorophyll a	5.86				
L42436-13	Chlorophyll a	8.4				

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L42436-14	Chlorophyll a	10.6				
L42436-15	Chlorophyll a	12.6				
L42706-6	Chlorophyll a	3.65				
L42785-6	Chlorophyll a	5.02				
L42956-6	Chlorophyll a	8.01				
L43103-6	Chlorophyll a	12.3				
L43253-6	Chlorophyll a	13.1				
L43422-13	Chlorophyll a	1.4	J	unknown		
L43422-14	Chlorophyll a	9.57				
L43422-15	Chlorophyll a	36.2	J	high		CHLA peak shifted to 654 nm. CHLA result calculated using the trichromatic equation. 430 nm peak
L43622-6	Chlorophyll a	5.53				
L43691-6	Chlorophyll a	13.4				
L43858-6	Chlorophyll a	16.2				
L44011-6	Chlorophyll a	11.7				
L45458-6	Chlorophyll a	4.7				
L45478-14	Chlorophyll a	1.64				
L45478-15	Chlorophyll a	3.89				
L45478-16	Chlorophyll a	7.26				
L45601-6	Chlorophyll a	7.01				
L45687-7	Chlorophyll a	14.2				
L45807-6	Chlorophyll a	1.77				
L45924-7	Chlorophyll a	2.32				
L46082-6	Chlorophyll a	6.89				
L46170-14	Chlorophyll a	10.4				
L46170-15	Chlorophyll a	26.7				
L46170-16	Chlorophyll a	17.9				
L46293-6	Chlorophyll a	11				
L46428-7	Chlorophyll a	6.98				
L46491-6	Chlorophyll a	14.2				
L46648-7	Chlorophyll a	20.2				
L47861-4	Chlorophyll a	9.38				
L47929-11	Chlorophyll a	2.25				
L47929-12	Chlorophyll a	5.6				
L47929-13	Chlorophyll a	1	J	unknown		
L48073-4	Chlorophyll a	3.21				
L48142-5	Chlorophyll a	5.44				
L48250-4	Chlorophyll a	1.4	J	unknown		
L48283-4	Chlorophyll a	11.7	J	high		High CS recovery. See DAF for explanation.

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L48285-5	Chlorophyll a	6.48				
L48327-4	Chlorophyll a	25.9				
L48771-11	Chlorophyll a	41.6				
L48771-12	Chlorophyll a	2.71				
L48771-13	Chlorophyll a	16.4	J	high		CHLA peak shifted to 653.5 nm. CHLA result calculated using the trichromatic equation. Peak at 430 nm was greater than peak 410 nm.
L48908-4	Chlorophyll a	5.48				
L49004-5	Chlorophyll a	9.46				
L49146-4	Chlorophyll a	17				
L50653-4	Chlorophyll a	5.81				
L50716-10	Chlorophyll a	8.42	J	low		Data discrepancy or anomaly: see DAF
L50716-11	Chlorophyll a	9.96	J	low		Data discrepancy or anomaly: see DAF
L50716-12	Chlorophyll a	6.53	J	low		Data discrepancy or anomaly: see DAF
L50819-4	Chlorophyll a	29.8	J	high		Data discrepancy or anomaly: see DAF
L50936-4	Chlorophyll a	41.5				Data discrepancy or anomaly: see DAF
L51026-4	Chlorophyll a	11.2	J	low		Data discrepancy or anomaly: see DAF
L51116-4	Chlorophyll a	5.16	J	unknown		Data discrepancy or anomaly: see DAF
L51253-4	Chlorophyll a	18.9				
L51305-10	Chlorophyll a	16.4	J	low		Data discrepancy or anomaly: see DAF
L51305-11	Chlorophyll a	18.7	J	low		Data discrepancy or anomaly: see DAF
L51305-12	Chlorophyll a	46.5	J	low		Data discrepancy or anomaly: see DAF
L51497-4	Chlorophyll a	11.1				
L51640-4	Chlorophyll a	16.2			No flag needed	Data discrepancy or anomaly: see DAF
L51714-4	Chlorophyll a	16.7	J	low		Data discrepancy or anomaly: see DAF
L51854-4	Chlorophyll a	19.3	J	low		Data discrepancy or anomaly: see DAF
L52948-4	Chlorophyll a	3.8				
L53066-10	Chlorophyll a	11.4				
L53066-11	Chlorophyll a	3.89				
L53066-12	Chlorophyll a	2.23				
L53252-4	Chlorophyll a	11.9				
L53345-4	Chlorophyll a	7.08				
L53346-4	Chlorophyll a	7.77				
L53563-4	Chlorophyll a	5.75				
L53727-4	Chlorophyll a	9.48				
L53787-10	Chlorophyll a	8.18				
L53787-11	Chlorophyll a	6.38				

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L53787-12	Chlorophyll a	32.8	J	high		CHLA peak shifted to 655 nm. CHLA result calculated using the trichromatic equation. Peak at 430 nm greater than at 410 nm.
L53928-4	Chlorophyll a	9.01				
L54100-4	Chlorophyll a	4.56				
L54168-4	Chlorophyll a	9.42				
L54313-4	Chlorophyll a	16				
L31952-25	Fecal Coliform	4				
L32031-1	Fecal Coliform	1				
L32050-1	Fecal Coliform	14				
L32098-1	Fecal Coliform	9				
L32101-1	Fecal Coliform	120				
L32196-1	Fecal Coliform	38				
L32285-1	Fecal Coliform	58				
L32329-1	Fecal Coliform	53				
L32434-1	Fecal Coliform	13				
L32436-1	Fecal Coliform	7				
L32546-1	Fecal Coliform	310				
L32619-1	Fecal Coliform	16				
L32652-1	Fecal Coliform	90				
L32669-1	Fecal Coliform	190				
L32797-1	Fecal Coliform	60				
L32830-1	Fecal Coliform	11				
L32831-1	Fecal Coliform	100				
L33186-1	Fecal Coliform	270				
L33261-1	Fecal Coliform	13				
L35552-1	Fecal Coliform	25				
L35622-1	Fecal Coliform	170				
L35694-1	Fecal Coliform	57				
L35696-1	Fecal Coliform	33				
L35765-1	Fecal Coliform	220				
L35822-1	Fecal Coliform	150				
L35903-1	Fecal Coliform	180				
L36011-1	Fecal Coliform	53				
L36083-1	Fecal Coliform	56				
L36120-1	Fecal Coliform	43				
L36178-1	Fecal Coliform	100				
L36278-1	Fecal Coliform	83				
L36354-1	Fecal Coliform	24				

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L36425-1	Fecal Coliform	22				
L36533-1	Fecal Coliform	55				
L36586-1	Fecal Coliform	59				
L36587-1	Fecal Coliform	37				
L36589-1	Fecal Coliform	59				
L36878-1	Fecal Coliform	41				
L39100-1	Fecal Coliform	2				
L39102-1	Fecal Coliform	100				
L39234-1	Fecal Coliform	5				
L39306-1	Fecal Coliform	38				
L39360-1	Fecal Coliform	370				
L39405-1	Fecal Coliform	7				
L39513-1	Fecal Coliform	7				
L39522-1	Fecal Coliform	68				
L39527-1	Fecal Coliform	7				
L39531-1	Fecal Coliform	160				
L39685-1	Fecal Coliform	71				
L39686-1	Fecal Coliform	260				
L39728-1	Fecal Coliform	24				
L39954-1	Fecal Coliform	14				
L40020-1	Fecal Coliform	21				
L40071-1	Fecal Coliform	43				
L40160-1	Fecal Coliform	21				
L40199-1	Fecal Coliform	23				
L40278-1	Fecal Coliform	160				
L42665-1	Fecal Coliform	4				
L42665-3	Fecal Coliform	20				
L42665-5	Fecal Coliform	5				
L42665-7	Fecal Coliform	33				
L42665-9	Fecal Coliform	15				
L42665-11	Fecal Coliform	44				
L42665-13	Fecal Coliform	1				
L42665-15	Fecal Coliform	39				
L42665-17	Fecal Coliform	3				
L42665-19	Fecal Coliform	8				
L42665-21	Fecal Coliform	24				
L42665-23	Fecal Coliform	2				
L42665-25	Fecal Coliform	14				

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L42665-27	Fecal Coliform	8				
L42665-29	Fecal Coliform	9				
L42665-31	Fecal Coliform	41				
L42665-33	Fecal Coliform	11				
L42665-35	Fecal Coliform	9				
L42665-37	Fecal Coliform	4				
L45487-1	Fecal Coliform	14				
L45487-3	Fecal Coliform	7				
L45487-5	Fecal Coliform	1				
L45487-7	Fecal Coliform	14				
L45487-9	Fecal Coliform	17				
L45487-11	Fecal Coliform	66				
L45487-13	Fecal Coliform	1				
L45487-15	Fecal Coliform	5				
L45487-17	Fecal Coliform	3				
L45487-19	Fecal Coliform	12				
L45487-21	Fecal Coliform	0				
L45487-23	Fecal Coliform	3				
L45487-25	Fecal Coliform	9				
L45487-27	Fecal Coliform	29				
L45487-29	Fecal Coliform	6				
L45487-31	Fecal Coliform	11				
L45487-33	Fecal Coliform	22				
L45487-35	Fecal Coliform	45				
L45487-37	Fecal Coliform	64				
L47886-1	Fecal Coliform	12				
L47886-3	Fecal Coliform	140				
L47886-5	Fecal Coliform	4				
L47886-7	Fecal Coliform	6				
L47886-9	Fecal Coliform	38				
L47886-11	Fecal Coliform	5				
L47886-13	Fecal Coliform	46				
L47886-15	Fecal Coliform	29				
L47886-17	Fecal Coliform	12				
L47886-19	Fecal Coliform	4				
L47886-21	Fecal Coliform	18				
L47886-23	Fecal Coliform	49				
L47886-25	Fecal Coliform	330				

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L47886-27	Fecal Coliform	92				
L47886-29	Fecal Coliform	44				
L47886-31	Fecal Coliform	3				
L47886-33	Fecal Coliform	79				
L47886-35	Fecal Coliform	110				
L47886-37	Fecal Coliform	2				
L47886-39	Fecal Coliform	77				
L50603-1	Fecal Coliform	2				
L50603-3	Fecal Coliform	520				
L50603-5	Fecal Coliform	37				
L50603-7	Fecal Coliform	13				
L50603-9	Fecal Coliform	2				
L50603-11	Fecal Coliform	3				
L50603-13	Fecal Coliform	25				
L50603-15	Fecal Coliform	23				
L50603-17	Fecal Coliform	40				
L50603-19	Fecal Coliform	160				
L50603-21	Fecal Coliform	11				
L50603-23	Fecal Coliform	36				
L50603-25	Fecal Coliform	16				
L50603-27	Fecal Coliform	140				
L50603-29	Fecal Coliform	27				
L50603-31	Fecal Coliform	14				
L50603-33	Fecal Coliform	18				
L50603-35	Fecal Coliform	32				
L50603-37	Fecal Coliform	49				
L53058-1	Fecal Coliform	7				
L53058-3	Fecal Coliform	7				
L53058-5	Fecal Coliform	3				
L53058-7	Fecal Coliform	17				
L53058-9	Fecal Coliform	1				
L53058-11	Fecal Coliform	1	U			
L53058-13	Fecal Coliform	27				
L53058-15	Fecal Coliform	2800				
L53628-1	Fecal Coliform	13				
L53628-2	Fecal Coliform	12				
L53628-3	Fecal Coliform	7				
L53058-17	Fecal Coliform	49				

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L53058-19	Fecal Coliform	12				
L53058-21	Fecal Coliform	16				
L53058-23	Fecal Coliform	13				
L53058-25	Fecal Coliform	7				
L53058-27	Fecal Coliform	7				
L53058-29	Fecal Coliform	10				
L53058-31	Fecal Coliform	14				
L53058-33	Fecal Coliform	6				
L53058-35	Fecal Coliform	7				
L53058-37	Fecal Coliform	55				
L35437-16	Orthophosphate Phosphorus	0.00802				
L35437-17	Orthophosphate Phosphorus	0.0192				
L35437-18	Orthophosphate Phosphorus	0.195				
L36364-16	Orthophosphate Phosphorus	0.002	U			
L36364-17	Orthophosphate Phosphorus	0.0025	J	unknown		
L36364-18	Orthophosphate Phosphorus	0.417				
L38754-13	Orthophosphate Phosphorus	0.002	U			
L38754-15	Orthophosphate Phosphorus	0.209	J	unknown		Poor peak shapes
L39947-13	Orthophosphate Phosphorus	0.002	U			
L39947-15	Orthophosphate Phosphorus	0.824	J	unknown		Possible matrix interference.
L42436-13	Orthophosphate Phosphorus	0.0038	J	unknown		
L42436-15	Orthophosphate Phosphorus	0.0034	J	unknown		
L43422-13	Orthophosphate Phosphorus	0.002	U			

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
	Orthophosphate					
L43422-15	Phosphorus	0.181				
	Orthophosphate					
L45478-14	Phosphorus	0.002	UJ	low		Sample filtered 1 day past the 15 minute holding time.
	Orthophosphate					
L45478-16	Phosphorus	0.164	J	low		Sample filtered 1 day past the 15 minute holding time.
	Orthophosphate					
L46170-14	Phosphorus	0.002	UJ	low		Sample filtered 1 day past the 15 minute holding time.
	Orthophosphate					
L46170-16	Phosphorus	0.618	J	low		Sample filtered 1 day past the 15 minute holiding time.
	Orthophosphate					
L47929-11	Phosphorus	0.002	UJ	low		Filtered 1 day beyond holding time
	Orthophosphate					
L47929-13	Phosphorus	0.131	J	low		Filtered 1 day beyond holding time
	Orthophosphate					
L48771-11	Phosphorus	0.003	J	low		15 minute filtration hold time exceeded.
	Orthophosphate					
L48771-13	Phosphorus	0.193	J	low		15 minute filtration hold time exceeded.
	Orthophosphate					
L50716-10	Phosphorus	0.0075	J	low		Filtered beyond the 15 minute holding time
	Orthophosphate					
L50716-12	Phosphorus	0.0746	J	low		Filtered beyond the 15 minute holding time
	Orthophosphate					
L51305-10	Phosphorus	0.0022	J	unknown		
	Orthophosphate					
L51305-12	Phosphorus	0.11				
	Orthophosphate					
L53066-10	Phosphorus	0.0105	J	low		Frozen prior to filtration. Filtered 2 days past the 15 minute hold time.
	Orthophosphate					
L53066-12	Phosphorus	0.0601	J	low		Frozen prior to filtration. Filtered 2 days past the 15 minute hold time.
	Orthophosphate					
L53787-10	Phosphorus	0.002	UJ	low		Filtered beyond the 15 minute holding time
	Orthophosphate					
L53787-12	Phosphorus	0.0819	J	low		Filtered beyond the 15 minute holding time
L20526-36	Pheophytin a	0.74				
L20527-36	Pheophytin a	0.32	J	unknown		
L20786-36	Pheophytin a	0.3	U			

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L21071-101	Pheophytin a	0.47	J	unknown		
L21071-102	Pheophytin a	0.38	J	unknown		
L21435-36	Pheophytin a	0.3	U			
L21609-36	Pheophytin a	0.3	U			
L21709-101	Pheophytin a	0.3	U			
L21709-102	Pheophytin a	0.743				
L21809-36	Pheophytin a	0.4	J	unknown		
L21824-36	Pheophytin a	0.999				
L22103-36	Pheophytin a	7.74				
L22234-36	Pheophytin a	0.55	J	unknown		
L27871-53	Pheophytin a	2	U			
L28143-38	Pheophytin a	2	U			
L28143-39	Pheophytin a	2	U			
L28143-37	Pheophytin a	2.7	J	unknown		
L28276-51	Pheophytin a	1.9	U			
L28429-51	Pheophytin a	1.3	U			
L28533-51	Pheophytin a	1.3	U			
L28694-51	Pheophytin a	1.7	U			
L28809-50	Pheophytin a	2	U			
L29054-51	Pheophytin a	1.6	J	unknown		
L29147-51	Pheophytin a	1.7	U			
L29305-37	Pheophytin a		R			No value available because of CHL-b in sample
L29305-38	Pheophytin a	7.16				
L29305-39	Pheophytin a		R			No value available because of chlorophyll-b in sample
L29664-51	Pheophytin a	2	U			
L29775-51	Pheophytin a	2	UJ	unknown		Sample received one day past holding time
L31727-49	Pheophytin a	2	U			
L31830-37	Pheophytin a	2	U			
L31830-38	Pheophytin a	2	U			
L31830-39	Pheophytin a		R			No value available because of chlorophyll-b in sample
L31873-13	Pheophytin a	2	U			
L31999-13	Pheophytin a	2	U			
L32160-13	Pheophytin a	2.4	U			
L32163-13	Pheophytin a	2	U			
L32305-13	Pheophytin a	5	U			
L32486-13	Pheophytin a	2	UJ	unknown		Sample received and filtered 1 day past HT.
L32658-34	Pheophytin a	4	U			
L32658-35	Pheophytin a	2	U			

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L32922-13	Pheophytin a	2.9	U			
L33147-13	Pheophytin a	2.4	J	unknown		
L33250-13	Pheophytin a	2	U			
L33323-13	Pheophytin a	1.3	U			
L35301-16	Pheophytin a	1.1	U			
L35437-16	Pheophytin a	2	U			
L35437-17	Pheophytin a	2	U			
L35437-18	Pheophytin a	4	UJ	unknown		Interfering species detected in sample extract. Result calculated using Lorenzen equations.
L35546-16	Pheophytin a	2.8	U			
L35688-16	Pheophytin a	2	U			
L35782-16	Pheophytin a	2.5	U			
L35958-16	Pheophytin a	1.8	U			
L36165-16	Pheophytin a	2.2	J	unknown		
L36364-16	Pheophytin a	2.9	J	unknown		
L36364-17	Pheophytin a	6.6	U			
L36364-18	Pheophytin a		R			No value available since trichromatic equation was used to calc CHLA result.
L36579-16	Pheophytin a	2	U			
L36683-16	Pheophytin a	2	U			
L36809-16	Pheophytin a	2	U			
L36852-16	Pheophytin a	2.9	U			
L38716-5	Pheophytin a	1.3	U			
L38754-13	Pheophytin a	1.3	U			
L38754-14	Pheophytin a	1.6	J	unknown		
L38754-15	Pheophytin a	3.6	J	unknown		
L39048-5	Pheophytin a	1	U			
L39303-5	Pheophytin a	1	U			
L39467-5	Pheophytin a	2.5	J	unknown		
L39624-5	Pheophytin a	1.3	U			
L39739-5	Pheophytin a	1.8	J	unknown		
L39947-13	Pheophytin a	2	U			
L39947-14	Pheophytin a	1.4	U			
L39947-15	Pheophytin a		R			No value available since trichromatic equation used to calculate CHLA result.
L40041-5	Pheophytin a	1.3	J	unknown		
L40182-5	Pheophytin a	2.41				
L40413-5	Pheophytin a	1.3	U			
L40579-5	Pheophytin a	1.1	U			
L42386-6	Pheophytin a	1.3	U			
L42436-13	Pheophytin a	1.3	U			

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L42436-14	Pheophytin a	1.3	U			
L42436-15	Pheophytin a	1.3	U			
L42706-6	Pheophytin a	1.3	U			
L42785-6	Pheophytin a	1.3	U			
L42956-6	Pheophytin a	2	U			
L43103-6	Pheophytin a	2	U			
L43253-6	Pheophytin a	2	U			
L43422-13	Pheophytin a	2	U			
L43422-14	Pheophytin a	2.8	J	unknown		
L43422-15	Pheophytin a		R			No value available since trichromatic equation was used to calculate CHLA result
L43622-6	Pheophytin a	1.4	J	unknown		
L43691-6	Pheophytin a	2.3	J	unknown		
L43858-6	Pheophytin a	2.7	J	unknown		
L44011-6	Pheophytin a	2	J	unknown		
L45458-6	Pheophytin a	2	U			
L45478-14	Pheophytin a	1	U			
L45478-15	Pheophytin a	1	U			
L45478-16	Pheophytin a	3.4	J	unknown		
L45601-6	Pheophytin a	2	U			
L45687-7	Pheophytin a	2	U			
L45807-6	Pheophytin a	1	U			
L45924-7	Pheophytin a	1	U			
L46082-6	Pheophytin a	2	U			
L46170-14	Pheophytin a	2	U			
L46170-15	Pheophytin a	2.9	J	unknown		
L46170-16	Pheophytin a	15.4				
L46293-6	Pheophytin a	1	U			
L46428-7	Pheophytin a	2	U			
L46491-6	Pheophytin a	1.3	U			
L46648-7	Pheophytin a	3.7	J	unknown		
L47861-4	Pheophytin a	2	U			
L47929-11	Pheophytin a	1	U			
L47929-12	Pheophytin a	1.3	J	unknown		
L47929-13	Pheophytin a	1.4	J	unknown		
L48073-4	Pheophytin a	1	U			
L48142-5	Pheophytin a	1	U			
L48250-4	Pheophytin a	1.4	U			
L48283-4	Pheophytin a	1.7	U	high		High CS recovery. See DAF for explanation.

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L48285-5	Pheophytin a	1.4	U			
L48327-4	Pheophytin a	2.4	U			
L48771-11	Pheophytin a	3.8	U			
L48771-12	Pheophytin a	2.34				
L48771-13	Pheophytin a		R			No PHEO value available since trichromatic equation used to calculate CHLA result.
L48908-4	Pheophytin a	1	U			
L49004-5	Pheophytin a	1.4	J	unknown		
L49146-4	Pheophytin a	2.5	J	unknown		
L50653-4	Pheophytin a	1.1	U			
L50716-10	Pheophytin a	1.1	UJ	low		Data discrepancy or anomaly: see DAF
L50716-11	Pheophytin a	1	UJ	low		Data discrepancy or anomaly: see DAF
L50716-12	Pheophytin a	1	UJ	low		Data discrepancy or anomaly: see DAF
L50819-4	Pheophytin a	3.5	J	high		Data discrepancy or anomaly: see DAF
L50936-4	Pheophytin a	19.2				Data discrepancy or anomaly: see DAF
L51026-4	Pheophytin a	1.3	UJ	low		Data discrepancy or anomaly: see DAF
L51116-4	Pheophytin a	2.8	J	unknown		Data discrepancy or anomaly: see DAF
L51253-4	Pheophytin a	4.64				
L51305-10	Pheophytin a	2.9	J	low		Data discrepancy or anomaly: see DAF
L51305-11	Pheophytin a	5.46	J	low		Data discrepancy or anomaly: see DAF
L51305-12	Pheophytin a	3.3	UJ	low		Data discrepancy or anomaly: see DAF
L51497-4	Pheophytin a	1	U			
L51640-4	Pheophytin a	1.4	U			Data discrepancy or anomaly: see DAF
L51714-4	Pheophytin a	2.7	J	low		Data discrepancy or anomaly: see DAF
L51854-4	Pheophytin a	5.01	J	low		Data discrepancy or anomaly: see DAF
L52948-4	Pheophytin a	1.3	U			
L53066-10	Pheophytin a	1.1	U			
L53066-11	Pheophytin a	1	U			
L53066-12	Pheophytin a	1.6	J	unknown		
L53252-4	Pheophytin a	1.1	U			
L53345-4	Pheophytin a	1	U			
L53346-4	Pheophytin a	1.1	U			
L53563-4	Pheophytin a	1.1	U			
L53727-4	Pheophytin a	2.4	J	unknown		
L53787-10	Pheophytin a	1.7	J	unknown		
L53787-11	Pheophytin a	2.19				
L53787-12	Pheophytin a		R			No value available since trichromatic equation used to calculate CHLA result.
L53928-4	Pheophytin a	1.5	J	unknown		
L54100-4	Pheophytin a	1	U			

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L54168-4	Pheophytin a	1.3	U			
L54313-4	Pheophytin a	1.5	U			
L20526-36	Sample Temp, field	15	J		No QC	
L20527-36	Sample Temp, field	18	J		No QC	
L20786-36	Sample Temp, field	18	J		No QC	
L21071-101	Sample Temp, field	17.5	J		No QC	
L21071-102	Sample Temp, field	15.5	J		No QC	
L21071-103	Sample Temp, field	7	J		No QC	
L21435-36	Sample Temp, field	22	J		No QC	
L21609-36	Sample Temp, field	24	J		No QC	
L21709-101	Sample Temp, field	22	J		No QC	
L21709-102	Sample Temp, field	19.5	J		No QC	
L21709-103	Sample Temp, field	8	J		No QC	
L21809-36	Sample Temp, field	20.5	J		No QC	
L21824-36	Sample Temp, field	18	J		No QC	
L22103-36	Sample Temp, field	15.5	J		No QC	
L22234-36	Sample Temp, field	12	J		No QC	
L27871-53	Sample Temp, field	9	J		No QC	
L28143-38	Sample Temp, field	17	J		No QC	
L28143-39	Sample Temp, field	15	J		No QC	
L28143-37	Sample Temp, field	10	J		No QC	
L28276-51	Sample Temp, field	19	J		No QC	
L28429-51	Sample Temp, field	20.5	J		No QC	
L28533-51	Sample Temp, field	23	J		No QC	
L28694-51	Sample Temp, field	22	J		No QC	
L28809-50	Sample Temp, field	25	J		No QC	
L29054-51	Sample Temp, field	23	J		No QC	
L29147-51	Sample Temp, field	22	J		No QC	
L29305-37	Sample Temp, field	22	J		No QC	
L29305-38	Sample Temp, field	20	J		No QC	
L29305-39	Sample Temp, field	9	J		No QC	
L29664-51	Sample Temp, field	17.2	J		No QC	
L29775-51	Sample Temp, field	14	J		No QC	
L31727-49	Sample Temp, field	18	J		No QC	
L31830-37	Sample Temp, field	21	J		No QC	
L31830-38	Sample Temp, field	17	J		No QC	
L31830-39	Sample Temp, field	8	J		No QC	
L31873-13	Sample Temp, field	19.5	J		No QC	

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L31999-13	Sample Temp, field	25.5	J		No QC	
L32160-13	Sample Temp, field				No QC	NOT PROVIDED
L32163-13	Sample Temp, field	25	J		No QC	
L32305-13	Sample Temp, field	25	J		No QC	
L32486-13	Sample Temp, field	25	J		No QC	
L32658-34	Sample Temp, field	23	J		No QC	
L32658-35	Sample Temp, field	20	J		No QC	
L32658-36	Sample Temp, field	9	J		No QC	
L32922-13	Sample Temp, field	19.5	J		No QC	
L33147-13	Sample Temp, field	18	J		No QC	
L33250-13	Sample Temp, field	16	J		No QC	
L33323-13	Sample Temp, field	13	J		No QC	
L35301-16	Sample Temp, field	17	J		No QC	
L35437-16	Sample Temp, field	15.9	J		No QC	
L35437-17	Sample Temp, field	14.4	J		No QC	
L35437-18	Sample Temp, field	8.5	J		No QC	
L35546-16	Sample Temp, field	18.3	J		No QC	
L35688-16	Sample Temp, field	23	J		No QC	
L35782-16	Sample Temp, field	20.5	J		No QC	
L35958-16	Sample Temp, field	23.2	J		No QC	
L36165-16	Sample Temp, field	23.1	J		No QC	
L36364-16	Sample Temp, field	21.5	J		No QC	
L36364-17	Sample Temp, field	21.4	J		No QC	
L36364-18	Sample Temp, field	9.7	J		No QC	
L36579-16	Sample Temp, field	19	J		No QC	
L36683-16	Sample Temp, field	17	J		No QC	
L36809-16	Sample Temp, field	14.8	J		No QC	
L36852-16	Sample Temp, field	13.9	J		No QC	
L38716-5	Sample Temp, field	14.5	J		No QC	
L38754-13	Sample Temp, field	18.5	J		No QC	
L38754-14	Sample Temp, field				No QC	not provided
L38754-15	Sample Temp, field	7	J		No QC	
L39048-5	Sample Temp, field	18.8	J		No QC	
L39303-5	Sample Temp, field	18.9	J		No QC	
L39467-5	Sample Temp, field	22.2	J		No QC	
L39624-5	Sample Temp, field	22	J		No QC	
L39739-5	Sample Temp, field	22.7	J		No QC	
L39947-13	Sample Temp, field	22.5	J		No QC	

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L39947-14	Sample Temp, field	20.7	J		No QC	
L39947-15	Sample Temp, field	10.3	J		No QC	
L40041-5	Sample Temp, field	20.1	J		No QC	
L40182-5	Sample Temp, field	19	J		No QC	
L40413-5	Sample Temp, field	15.6	J		No QC	
L40579-5	Sample Temp, field	13.6	J		No QC	
L42386-6	Sample Temp, field	14.2	J		No QC	
L42436-13	Sample Temp, field	16.5	J		No QC	
L42436-14	Sample Temp, field	15.5	J		No QC	
L42436-15	Sample Temp, field	10	J		No QC	
L42706-6	Sample Temp, field	21.6	J		No QC	
L42785-6	Sample Temp, field	17.7	J		No QC	
L42956-6	Sample Temp, field	22.6	J		No QC	
L43103-6	Sample Temp, field	22	J		No QC	
L43253-6	Sample Temp, field	20.8	J		No QC	
L43422-13	Sample Temp, field	20.7	J		No QC	
L43422-14	Sample Temp, field	20.5	J		No QC	
L43422-15	Sample Temp, field	12.4	J		No QC	
L43622-6	Sample Temp, field	20.5	J		No QC	
L43691-6	Sample Temp, field	17	J		No QC	
L43858-6	Sample Temp, field	14	J		No QC	
L44011-6	Sample Temp, field	12	J		No QC	
L45458-6	Sample Temp, field	14	J		No QC	
L45478-14	Sample Temp, field	18.5	J		No QC	
L45478-15	Sample Temp, field	14.5	J		No QC	
L45478-16	Sample Temp, field	8	J		No QC	
L45601-6	Sample Temp, field	17	J		No QC	
L45687-7	Sample Temp, field	17	J		No QC	
L45807-6	Sample Temp, field	23	J		No QC	
L45924-7	Sample Temp, field	22.3	J		No QC	
L46082-6	Sample Temp, field	21	J		No QC	
L46170-14	Sample Temp, field	20.5	J		No QC	
L46170-15	Sample Temp, field	20.5	J		No QC	
L46170-16	Sample Temp, field	10.5	J		No QC	
L46293-6	Sample Temp, field	19.4	J		No QC	
L46428-7	Sample Temp, field	18	J		No QC	
L46491-6	Sample Temp, field	16	J		No QC	
L46648-7	Sample Temp, field	13	J		No QC	

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L47861-4	Sample Temp, field	14.8	J		No QC	
L47929-11	Sample Temp, field	18.2	J		No QC	
L47929-12	Sample Temp, field	15	J		No QC	
L47929-13	Sample Temp, field	8.3	J		No QC	
L48073-4	Sample Temp, field	20.7	J		No QC	
L48142-5	Sample Temp, field	21.6	J		No QC	
L48250-4	Sample Temp, field	20.6	J		No QC	
L48283-4	Sample Temp, field	20	J		No QC	
L48285-5	Sample Temp, field	26.3	J		No QC	
L48327-4	Sample Temp, field	20.9	J		No QC	
L48771-11	Sample Temp, field	22	J		No QC	
L48771-12	Sample Temp, field	19	J		No QC	
L48771-13	Sample Temp, field	8	J		No QC	
L48908-4	Sample Temp, field	19.7	J		No QC	
L49004-5	Sample Temp, field	18	J		No QC	
L49146-4	Sample Temp, field	13.5	J		No QC	
L20526-36	Secchi Transparency	2.3	J		No QC	
L20527-36	Secchi Transparency	2.3	J		No QC	
L20786-36	Secchi Transparency	1.8	J		No QC	
L21071-101	Secchi Transparency	2	J		No QC	
L21435-36	Secchi Transparency	2	J		No QC	
L21609-36	Secchi Transparency	2.3	J		No QC	
L21709-101	Secchi Transparency	2	J		No QC	
L21809-36	Secchi Transparency	2.3	J		No QC	
L21824-36	Secchi Transparency	2	J		No QC	
L22103-36	Secchi Transparency	2	J		No QC	
L22234-36	Secchi Transparency	2	J		No QC	
L27871-53	Secchi Transparency	1.3	J		No QC	
L28143-38	Secchi Transparency	2	J		No QC	
L28276-51	Secchi Transparency	1.3	J		No QC	
L28429-51	Secchi Transparency	2.5	J		No QC	
L28533-51	Secchi Transparency	1.5	J		No QC	
L28694-51	Secchi Transparency	2.5	J		No QC	
L28809-50	Secchi Transparency	2.3	J		No QC	
L29054-51	Secchi Transparency	3	J		No QC	
L29147-51	Secchi Transparency	2.5	J		No QC	
L29305-37	Secchi Transparency	2	J		No QC	
L29664-51	Secchi Transparency	1.5	J		No QC	

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L29775-51	Secchi Transparency	2.5	J		No QC	
L31727-49	Secchi Transparency	2	J		No QC	
L31830-37	Secchi Transparency	3	J		No QC	
L31873-13	Secchi Transparency	2.1	J		No QC	
L31999-13	Secchi Transparency	2.6	J		No QC	
L32160-13	Secchi Transparency	1	J		No QC	
L32163-13	Secchi Transparency	1	J		No QC	
L32305-13	Secchi Transparency	1.2	J		No QC	
L32486-13	Secchi Transparency	1.3	J		No QC	
L32658-34	Secchi Transparency	0.9	J		No QC	
L32922-13	Secchi Transparency	1.5	J		No QC	
L33147-13	Secchi Transparency	1.6	J		No QC	
L33250-13	Secchi Transparency	3.3	J		No QC	
L33323-13	Secchi Transparency	3.4	J		No QC	
L35301-16	Secchi Transparency	2.6	J		No QC	
L35437-16	Secchi Transparency	3.2	J		No QC	
L35546-16	Secchi Transparency	1.6	J		No QC	
L35688-16	Secchi Transparency	2.5	J		No QC	
L35782-16	Secchi Transparency	2	J		No QC	
L35958-16	Secchi Transparency	3.5	J		No QC	
L36165-16	Secchi Transparency	2.2	J		No QC	
L36364-16	Secchi Transparency	1.9	J		No QC	
L36579-16	Secchi Transparency	1.8	J		No QC	
L36683-16	Secchi Transparency	2.8	J		No QC	
L36809-16	Secchi Transparency	3	J		No QC	
L36852-16	Secchi Transparency	1.7	J		No QC	
L38716-5	Secchi Transparency	3.6	J		No QC	
L38754-13	Secchi Transparency	3.9	J		No QC	
L39048-5	Secchi Transparency	3.2	J		No QC	
L39303-5	Secchi Transparency	3.2	J		No QC	
L39467-5	Secchi Transparency	1.9	J		No QC	
L39624-5	Secchi Transparency	1.9	J		No QC	
L39739-5	Secchi Transparency	3.4	J		No QC	
L39947-13	Secchi Transparency	3.4	J		No QC	
L40041-5	Secchi Transparency	2.7	J		No QC	
L40182-5	Secchi Transparency	2.5	J		No QC	
L40413-5	Secchi Transparency	2.2	J		No QC	
L40579-5	Secchi Transparency	2.8	J		No QC	

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L42386-6	Secchi Transparency	2.8	J		No QC	
L42436-13	Secchi Transparency	2.5	J		No QC	
L42706-6	Secchi Transparency	2.8	J		No QC	
L42785-6	Secchi Transparency	3.2	J		No QC	
L42956-6	Secchi Transparency	2.6	J		No QC	
L43103-6	Secchi Transparency	2.4	J		No QC	
L43253-6	Secchi Transparency	2.1	J		No QC	
L43422-13	Secchi Transparency	2.2	J		No QC	
L43622-6	Secchi Transparency	3.1	J		No QC	
L43691-6	Secchi Transparency	3.2	J		No QC	
L43858-6	Secchi Transparency	2.1	J		No QC	
L44011-6	Secchi Transparency	1.7	J		No QC	
L45458-6	Secchi Transparency				No QC	data not provided
L45478-14	Secchi Transparency	3.4	J		No QC	
L45601-6	Secchi Transparency	2.6	J		No QC	
L45687-7	Secchi Transparency	1.7	J		No QC	
L45807-6	Secchi Transparency	2.7	J		No QC	
L45924-7	Secchi Transparency	3.4	J		No QC	
L46082-6	Secchi Transparency	2.8	J		No QC	
L46170-14	Secchi Transparency	2.4	J		No QC	
L46293-6	Secchi Transparency	2.5	J		No QC	
L46428-7	Secchi Transparency	3.4	J		No QC	
L46491-6	Secchi Transparency	2.2	J		No QC	
L46648-7	Secchi Transparency	3.3	J		No QC	
L47861-4	Secchi Transparency	3.5	J		No QC	
L47929-11	Secchi Transparency	3.5	J		No QC	
L48073-4	Secchi Transparency	3	J		No QC	
L48142-5	Secchi Transparency	3	J		No QC	
L48250-4	Secchi Transparency	3.5	J		No QC	
L48283-4	Secchi Transparency	2.1	J		No QC	
L48285-5	Secchi Transparency	2.8	J		No QC	
L48327-4	Secchi Transparency	0.8	J		No QC	
L48771-11	Secchi Transparency	0.6	J		No QC	
L48908-4	Secchi Transparency	2.9	J		No QC	
L49004-5	Secchi Transparency	2.1	J		No QC	
L49146-4	Secchi Transparency	1.5	J		No QC	
L20526-36	Total Nitrogen	0.619				
L20527-36	Total Nitrogen	0.623				

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L20786-36	Total Nitrogen	0.772				
L21071-101	Total Nitrogen	0.666				
L21071-102	Total Nitrogen	0.869				
L21071-103	Total Nitrogen	1.75				
L21435-36	Total Nitrogen	0.478				
L21609-36	Total Nitrogen	0.48				
L21709-101	Total Nitrogen	0.48				
L21709-102	Total Nitrogen	0.444				
L21709-103	Total Nitrogen	2.91				
L21809-36	Total Nitrogen	0.513				
L21824-36	Total Nitrogen	0.54				
L22103-36	Total Nitrogen	0.448				
L22234-36	Total Nitrogen	0.477				
L27871-53	Total Nitrogen	0.869				
L28143-38	Total Nitrogen	0.598				
L28143-39	Total Nitrogen	0.654				
L28143-37	Total Nitrogen	1.1				
L28276-51	Total Nitrogen	0.528				
L28429-51	Total Nitrogen	0.564				
L28533-51	Total Nitrogen	0.689				
L28694-51	Total Nitrogen	0.805				
L28809-50	Total Nitrogen	0.585				
L29054-51	Total Nitrogen	0.47				
L29147-51	Total Nitrogen	0.466				
L29305-37	Total Nitrogen	0.574				
L29305-38	Total Nitrogen	0.462				
L29305-39	Total Nitrogen	3.17				
L29664-51	Total Nitrogen	0.761				
L29775-51	Total Nitrogen	0.651				
L31727-49	Total Nitrogen	0.574				
L31830-37	Total Nitrogen	0.657				
L31830-38	Total Nitrogen	0.633				
L31830-39	Total Nitrogen	1.39				
L31873-13	Total Nitrogen	0.451				
L31999-13	Total Nitrogen	0.506				
L32160-13	Total Nitrogen	0.913				
L32163-13	Total Nitrogen	1.05				
L32305-13	Total Nitrogen	0.776				

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L32486-13	Total Nitrogen	0.74				
L32658-34	Total Nitrogen	0.879				
L32658-35	Total Nitrogen	0.46				
L32658-36	Total Nitrogen	2.81				
L32922-13	Total Nitrogen	0.757				
L33147-13	Total Nitrogen	0.687				
L33250-13	Total Nitrogen	0.65				
L33323-13	Total Nitrogen	0.772				
L35301-16	Total Nitrogen	1.02				
L35437-16	Total Nitrogen	0.926				
L35437-17	Total Nitrogen	0.848				
L35437-18	Total Nitrogen	1.65				
L35546-16	Total Nitrogen	0.811				
L35688-16	Total Nitrogen	0.582				
L35782-16	Total Nitrogen	0.528				
L35958-16	Total Nitrogen	0.413				
L36165-16	Total Nitrogen	0.476				
L36364-16	Total Nitrogen	0.568				
L36364-17	Total Nitrogen	0.739				
L36364-18	Total Nitrogen	1.79				
L36579-16	Total Nitrogen	0.533				
L36683-16	Total Nitrogen	0.418				
L36809-16	Total Nitrogen	0.464				
L36852-16	Total Nitrogen	0.644				
L38716-5	Total Nitrogen	0.575				
L38754-13	Total Nitrogen	0.494				
L38754-14	Total Nitrogen	0.511				
L38754-15	Total Nitrogen	1.24				
L39048-5	Total Nitrogen	0.466				
L39303-5	Total Nitrogen	0.406				
L39467-5	Total Nitrogen	0.668				
L39624-5	Total Nitrogen	0.695				
L39739-5	Total Nitrogen	0.386				
L39947-13	Total Nitrogen	0.541				
L39947-14	Total Nitrogen	0.613				
L39947-15	Total Nitrogen	3.03				
L40041-5	Total Nitrogen	0.479				
L40182-5	Total Nitrogen	0.43				

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L40413-5	Total Nitrogen	0.575				
L40579-5	Total Nitrogen	0.504				
L42386-6	Total Nitrogen	0.547				
L42436-13	Total Nitrogen	0.455				
L42436-14	Total Nitrogen	0.534				
L42436-15	Total Nitrogen	0.544				
L42706-6	Total Nitrogen	0.43				
L42785-6	Total Nitrogen	0.404				
L42956-6	Total Nitrogen	0.461				
L43103-6	Total Nitrogen	0.552				
L43253-6	Total Nitrogen	0.503				
L43422-13	Total Nitrogen	0.478				
L43422-14	Total Nitrogen	0.478				
L43422-15	Total Nitrogen	2.56				
L43622-6	Total Nitrogen	0.468				
L43691-6	Total Nitrogen	0.438				
L43858-6	Total Nitrogen	0.481				
L44011-6	Total Nitrogen	0.825				
L45458-6	Total Nitrogen	0.545				
L45478-14	Total Nitrogen	0.48				
L45478-15	Total Nitrogen	0.507				
L45478-16	Total Nitrogen	1.02				
L45601-6	Total Nitrogen	0.464				
L45687-7	Total Nitrogen	0.578				
L45807-6	Total Nitrogen	0.67				
L45924-7	Total Nitrogen	0.401				
L46082-6	Total Nitrogen	0.443				
L46170-14	Total Nitrogen	0.496				
L46170-15	Total Nitrogen	0.47				
L46170-16	Total Nitrogen	1.82				
L46293-6	Total Nitrogen	0.49				
L46428-7	Total Nitrogen	0.495				
L46491-6	Total Nitrogen	0.474				
L46648-7	Total Nitrogen	0.612				
L47861-4	Total Nitrogen	0.622				
L47929-11	Total Nitrogen	0.503				
L47929-12	Total Nitrogen	0.491				
L47929-13	Total Nitrogen	0.92				

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L48073-4	Total Nitrogen	0.515				
L48142-5	Total Nitrogen	0.406				
L48250-4	Total Nitrogen	0.356				
L48283-4	Total Nitrogen	0.491				
L48285-5	Total Nitrogen	0.496				
L48327-4	Total Nitrogen	1.19				
L48771-11	Total Nitrogen	1.44				
L48771-12	Total Nitrogen	0.588				
L48771-13	Total Nitrogen	1.34				
L48908-4	Total Nitrogen	0.77				
L49004-5	Total Nitrogen	0.651				
L49146-4	Total Nitrogen	0.849				
L50653-4	Total Nitrogen	0.506				
L50716-10	Total Nitrogen	0.523				
L50716-11	Total Nitrogen	0.255				
L50716-12	Total Nitrogen	0.784				
L50819-4	Total Nitrogen	0.863				
L50936-4	Total Nitrogen	0.868				
L51026-4	Total Nitrogen	0.48				
L51116-4	Total Nitrogen	0.469				
L51253-4	Total Nitrogen	0.62				
L51305-10	Total Nitrogen	0.712				
L51305-11	Total Nitrogen	0.815				
L51305-12	Total Nitrogen	1.26				
L56203-15	Total Nitrogen	0.869				
L51497-4	Total Nitrogen	0.545				
L51640-4	Total Nitrogen	0.46				
L51714-4	Total Nitrogen	0.502				
L51854-4	Total Nitrogen	0.569				
L52948-4	Total Nitrogen	0.57				
L53066-10	Total Nitrogen	0.56				
L53066-11	Total Nitrogen	0.503				
L53066-12	Total Nitrogen	0.718				
L53252-4	Total Nitrogen	0.956				
L53345-4	Total Nitrogen	0.54				
L53346-4	Total Nitrogen	0.462				
L53563-4	Total Nitrogen	0.471				
L53727-4	Total Nitrogen	0.489				

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L53787-10	Total Nitrogen	0.54				
L53787-11	Total Nitrogen	0.688				
L53787-12	Total Nitrogen	1.06				
L53928-4	Total Nitrogen	0.459				
L54100-4	Total Nitrogen	0.465				
L54168-4	Total Nitrogen	0.419				
L54313-4	Total Nitrogen	0.419				
L20526-36	Total Phosphorus	0.0333				
L20527-36	Total Phosphorus	0.0358				
L20786-36	Total Phosphorus	0.0948				
L21071-101	Total Phosphorus	0.0252				
L21071-102	Total Phosphorus	0.0413				
L21071-103	Total Phosphorus	0.377				
L21435-36	Total Phosphorus	0.0189				
L21609-36	Total Phosphorus	0.0222				
L21709-101	Total Phosphorus	0.0206				
L21709-102	Total Phosphorus	0.0213				
L21709-103	Total Phosphorus	0.566				
L21809-36	Total Phosphorus	0.0193				
L21824-36	Total Phosphorus	0.0304				
L22103-36	Total Phosphorus	0.0213				
L22234-36	Total Phosphorus	0.0264				
L27871-53	Total Phosphorus	0.0384				
L28143-38	Total Phosphorus	0.0291				
L28143-39	Total Phosphorus	0.0348				
L28143-37	Total Phosphorus	0.0875				
L28276-51	Total Phosphorus	0.0286				
L28429-51	Total Phosphorus	0.0265				
L28533-51	Total Phosphorus	0.0204				
L28694-51	Total Phosphorus	0.0189				
L28809-50	Total Phosphorus	0.0165				
L29054-51	Total Phosphorus	0.0141				
L29147-51	Total Phosphorus	0.0183				
L29305-37	Total Phosphorus	0.0269				
L29305-38	Total Phosphorus	0.029				
L29305-39	Total Phosphorus	0.946				
L29664-51	Total Phosphorus	0.0286				
L29775-51	Total Phosphorus	0.0392				

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L31727-49	Total Phosphorus	0.0385				
L31830-37	Total Phosphorus	0.0359				
L31830-38	Total Phosphorus	0.0521				
L31830-39	Total Phosphorus	0.339				
L31873-13	Total Phosphorus	0.0236				
L31999-13	Total Phosphorus	0.0319				
L32160-13	Total Phosphorus	0.0382				
L32163-13	Total Phosphorus	0.0401				
L32305-13	Total Phosphorus	0.0597				
L32486-13	Total Phosphorus	0.032				
L32658-34	Total Phosphorus	0.0302				
L32658-35	Total Phosphorus	0.0198				
L32658-36	Total Phosphorus	0.709				
L32922-13	Total Phosphorus	0.0172				
L33147-13	Total Phosphorus	0.0198				
L33250-13	Total Phosphorus	0.0201				
L33323-13	Total Phosphorus	0.0446				
L35301-16	Total Phosphorus	0.0432				
L35437-16	Total Phosphorus	0.0431				
L35437-17	Total Phosphorus	0.0524				
L35437-18	Total Phosphorus	0.357				
L35546-16	Total Phosphorus	0.0376				
L35688-16	Total Phosphorus	0.0233				
L35782-16	Total Phosphorus	0.0293				
L35958-16	Total Phosphorus	0.0165				
L36165-16	Total Phosphorus	0.0202				
L36364-16	Total Phosphorus	0.0283				
L36364-17	Total Phosphorus	0.0526				
L36364-18	Total Phosphorus	0.39				
L36579-16	Total Phosphorus	0.0209				
L36683-16	Total Phosphorus	0.017				
L36809-16	Total Phosphorus	0.0173				
L36852-16	Total Phosphorus	0.0231				
L38716-5	Total Phosphorus	0.0246				
L38754-13	Total Phosphorus	0.0184				
L38754-14	Total Phosphorus	0.0291				
L38754-15	Total Phosphorus	0.267				
L39048-5	Total Phosphorus	0.029				

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L39303-5	Total Phosphorus	0.0191				
L39467-5	Total Phosphorus	0.0205				
L39624-5	Total Phosphorus	0.0176				
L39739-5	Total Phosphorus	0.0151				
L39947-13	Total Phosphorus	0.0246				
L39947-14	Total Phosphorus	0.0241				
L39947-15	Total Phosphorus	0.85	J	low		Possible matrix interference
L40041-5	Total Phosphorus	0.0162				
L40182-5	Total Phosphorus	0.0195				
L40413-5	Total Phosphorus	0.0329				
L40579-5	Total Phosphorus	0.0263				
L42386-6	Total Phosphorus	0.0289				
L42436-13	Total Phosphorus	0.0255				
L42436-14	Total Phosphorus	0.0286				
L42436-15	Total Phosphorus	0.0552				
L42706-6	Total Phosphorus	0.0239				
L42785-6	Total Phosphorus	0.0268				
L42956-6	Total Phosphorus	0.0259				
L43103-6	Total Phosphorus	0.0276				
L43253-6	Total Phosphorus	0.0316				
L43422-13	Total Phosphorus	0.0293				
L43422-14	Total Phosphorus	0.0299				
L43422-15	Total Phosphorus	1.05				
L43622-6	Total Phosphorus	0.0356				
L43691-6	Total Phosphorus	0.0326				
L43858-6	Total Phosphorus	0.0392				
L44011-6	Total Phosphorus	0.137				
L45458-6	Total Phosphorus	0.0235				
L45478-14	Total Phosphorus	0.0214				
L45478-15	Total Phosphorus	0.0279				
L45478-16	Total Phosphorus	0.308				
L45601-6	Total Phosphorus	0.0269				
L45687-7	Total Phosphorus	0.0273				
L45807-6	Total Phosphorus	0.0268				
L45924-7	Total Phosphorus	0.0148				
L46082-6	Total Phosphorus	0.0182				
L46170-14	Total Phosphorus	0.0346				
L46170-15	Total Phosphorus	0.0347				

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L46170-16	Total Phosphorus	0.673				
L46293-6	Total Phosphorus	0.0315				
L46428-7	Total Phosphorus	0.0338				
L46491-6	Total Phosphorus	0.0269				
L46648-7	Total Phosphorus	0.0572				
L47861-4	Total Phosphorus	0.0296				
L47929-11	Total Phosphorus	0.0212				
L47929-12	Total Phosphorus	0.0263				
L47929-13	Total Phosphorus	0.19				
L48073-4	Total Phosphorus	0.0321				
L48142-5	Total Phosphorus	0.0303				
L48250-4	Total Phosphorus	0.0233				
L48283-4	Total Phosphorus	0.0365				
L48285-5	Total Phosphorus	0.0177				
L48327-4	Total Phosphorus	0.0424				
L48771-11	Total Phosphorus	0.0484				
L48771-12	Total Phosphorus	0.0205				
L48771-13	Total Phosphorus	0.478				
L48908-4	Total Phosphorus	0.0242				
L49004-5	Total Phosphorus	0.0254				
L49146-4	Total Phosphorus	0.0732				
L50653-4	Total Phosphorus	0.0493				
L50716-10	Total Phosphorus	0.0551				
L50716-11	Total Phosphorus	0.027				
L50716-12	Total Phosphorus	0.103				
L50819-4	Total Phosphorus	0.0648				
L50936-4	Total Phosphorus	0.0775				
L51026-4	Total Phosphorus	0.0309				
L51116-4	Total Phosphorus	0.0189				
L51253-4	Total Phosphorus	0.0338				
L51305-10	Total Phosphorus	0.0269				
L51305-11	Total Phosphorus	0.0475				
L51305-12	Total Phosphorus	0.431				
L56203-15	Total Phosphorus	0.0837				
L51497-4	Total Phosphorus	0.028				
L51640-4	Total Phosphorus	0.0267				
L51714-4	Total Phosphorus	0.0221				
L51854-4	Total Phosphorus	0.0342				

Appendix A: Data Validation Results

Lab Sample ID	Parameter	DV Value	DV Qualifier	DV Bias	DV Notes	Lab Text Value
L52948-4	Total Phosphorus	0.0488				
L53066-10	Total Phosphorus	0.0532				
L53066-11	Total Phosphorus	0.0503				
L53066-12	Total Phosphorus	0.0755				
L53252-4	Total Phosphorus	0.0963				
L53345-4	Total Phosphorus	0.0255				
L53346-4	Total Phosphorus	0.0261				
L53563-4	Total Phosphorus	0.0231				
L53727-4	Total Phosphorus	0.0205				
L53787-10	Total Phosphorus	0.0215				
L53787-11	Total Phosphorus	0.0598				
L53787-12	Total Phosphorus	0.437				
L53928-4	Total Phosphorus	0.0192				
L54100-4	Total Phosphorus	0.0235				
L54168-4	Total Phosphorus	0.0218				
L54313-4	Total Phosphorus	0.0275				