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March 11, 2014

APR 2014
Brownfields

Mr. Scott McGuinn
Cape Fear Soccer Club
5725 Oleander Drive Suite B-4
Wilmington, North Carolina 28403

Reference: Annual Groundwater and Methane Monitoring Report
Cape Fear Soccer Complex
211 Sutton Steam Plant Road
Wilmington, New Hanover County, North Carolina
ECS Carolinas, LLP Project No. 22-12830G

Dear Mr. McGuinn:

ECS Carolinas, LLP (ECS) is pleased to provide you with the results of our annual groundwater and methane monitoring for the referenced property. Our services were provided in general accordance with ECS Proposal No. 22-17930 dated August 23, 2012 and accepted January 21, 2014. Due to the authorization date, the 2013 sampling event took place in February 2014.

PROJECT INFORMATION

The Cape Fear Soccer Complex was redeveloped under a Brownfields Agreement between the site developer and the North Carolina Department of Environment and Natural Resources (NCDENR). Per this agreement, annual groundwater monitoring and methane monitoring is required. The current Brownfields agreement has been included in Appendix I of this report. The original monitoring wells at the site have either been destroyed during redevelopment activities or required relocation due to adjacent property operations. ECS installed seven groundwater monitoring wells and two methane monitoring wells at the site on February 21, 2007 with subsequent groundwater and methane gas sampling. Information pertaining to the well installations was included in the Annual Groundwater and Methane Monitoring Report dated March 19, 2007 and prepared by ECS.

METHANE MONITORING

On February 18, 2014, ECS mobilized to the site to record methane readings from the two methane monitoring wells. A GEM2000 landfill meter was used to measure the methane readings. ECS removed the well cap, placed a plastic bag over each of the methane monitoring well casings and sealed the bag to the PVC with duct tape. The sampling probe was used to puncture the plastic bag to obtain the readings. Initial readings were recorded. The readings were allowed to stabilize (approximately 15 to 20 minutes). The stabilized readings were also recorded. The following table lists the methane readings.

Monitoring Well	Date	Peak	Stabilized Reading (after 15-20 minutes)
M-1	02/28/2007	6,000 ppm	650 ppm
	07/02/2008	8,200 ppm	2,600 ppm
	07/09/2009	2,000 ppm	1,697 ppm
	09/16/2010*	>4.9 %	NA
	10/28/2011	100%	100%
	09/12/2012	6.1%	5.3-6.1%
	2/18/2014	1.7%	1.5%
M-2	02/28/2007	1,000 ppm	500 ppm
	07/02/2008	10,000 ppm	2,800 ppm
	07/09/2009	1,400 ppm	976 ppm
	09/16/2010**	9,380 ppm	1.90%
	10/28/2011***	0%	0%
	09/12/2012	0.3%	0.4%
	2/18/2014	0%	0%

ppm = parts per million, 10,000 ppm = 1.0 %
*In 2009 the Foxboro TVA 1000 was utilized to monitor methane concentrations. It does not record concentrations greater than 5.0%, which is the lower explosive limit (LEL) for gaseous methane (source www.msdsonline.com).
**The Foxboro TVA 1000 converts from ppm to percentage after the value exceeds 10,000 ppm.
***The RKI Eagle Portable Gas Monitor did not display percentages less than 1.0%.

Based on the readings observed at M-1, it appears that methane levels have dropped considerably since 2011. However, the levels still exceed the lower explosive limit (LEL). In the 2014 sampling event, M-2 concentrations continued to be less than 2%. Methane concentrations sampled from the ambient air prior to removing the well caps did not exceed 0%; therefore, it appears the well caps are successfully containing the methane gas.

GROUNDWATER MONITORING

On February 18 and 19, 2014, ECS mobilized to the site to collect groundwater samples from the seven groundwater monitoring wells (GW-1, GW-2, GW-3, GW-4, W-1, W-3, and W-5, Figure 2). ECS purged each well (three well volumes) prior to sampling using a monofilament line and disposable plastic bailer. Field measurements of temperature, pH, turbidity and specific conductance were recorded after each well volume. After purging the wells, a groundwater sample was collected from each well using the disposable plastic bailer. The samples were placed in laboratory prepared containers using a new pair of disposable nitrile gloves. The sample containers were labeled with the project name, sample location and the date and time that the sample was collected. The sample containers were then placed in two separate coolers containing ice (4°C) and were delivered to Pace Analytical, Inc., a North Carolina certified laboratory located in Asheville, North Carolina under chain-of-custody. The groundwater samples were analyzed for

volatile organic compounds (VOCs) using EPA Method 8260, Priority Pollutant Metals by EPA Method 6010B, nitrate-nitrite, ammonia, chloride, chemical oxygen demand (COD), and total organic carbon (TOC).

The laboratory analytical results of the groundwater sampling have been summarized in the attached Table 1. Seventeen (17) target constituents were identified in the groundwater samples. Of these, seven constituents, benzene, 1,4-dichlorobenzene, naphthalene, chromium, lead, zinc, and ammonia were identified in at least one well at concentrations exceeding their respective State 15A NCAC 2L groundwater standards.

Laboratory analysis of groundwater samples collected from monitoring wells GW-1 and GW-2 showed a slight increase in VOCs in the February 2014 sampling event compared to the 2012 sampling event. Laboratory analysis of groundwater samples collected from monitoring wells W-1 and W-3 have not shown measurable concentrations of VOCs during the 2010, 2011, 2012, and February 2014 sampling events. Laboratory analysis of the groundwater sample collected from monitoring well GW-4 showed a slight decrease in VOCs. Laboratory analysis of the groundwater sample collected from monitoring well W-5 showed a slight increase in some VOCs and a slight decrease in other VOCs. However, the concentrations of VOCs appeared similar to concentrations detected in 2012. Benzene concentrations detected in wells GW-1, GW-2, and W-5 were above the 15A NCAC 2L Standard. Naphthalene concentrations detected in wells GW-1 and W-5 were above the 15A NCAC 2L Standard.

Concentrations of selenium and arsenic were not detected above laboratory detection in the wells sampled in February 2014. A concentration of cadmium appeared in GW-3 above the 15A NCAC 2L Standard. Concentrations of copper and nickel were detected in most wells but concentrations were below the 15A NCAC 2L Standard. Chromium was detected in wells GW-3, GW-4, W-1, W-3, and W-5 above the 15A NCAC 2L Standard. Concentrations of mercury remained at W-5 in February 2014; however, the concentrations were below the 15A NCAC 2L Standard. Lead concentrations at GW-3, GW-4 and W-5 were detected above 15A NCAC 2L Standard. Levels of zinc increased at GW-3 from the 2012 event which is above the 15A NCAC 2L Standard. The highest turbidity concentration was observed at GW-5.

Chemical oxygen demand (COD) increased in each well. Ammonia concentrations increased at wells GW-1, GW-2, and W-5; and decreased at GW-3, GW-4, and W-1. Since 2007, the concentrations of ammonia have decreased over time. Chloride concentrations were similar to the 2012 event. Nitrate/Nitrite concentrations decreased. Total Organic Carbon (TOC) concentrations decreased at each well. Samples from each well contained pH readings of less than 6.5 standard units.

CONCLUSIONS AND RECOMMENDATIONS

In February 2014 (the 2013 sampling event), ECS performed methane gas monitoring from two monitoring wells and collected groundwater samples from seven monitoring wells. The results of the methane monitoring at M-2 showed a continued decrease in methane gas concentrations since the 2011 sampling event. In 2010 and 2011, the methane concentrations in well M-1 exceeded the lower explosive limit (5%) for methane. The current results at M-1 showed a stabilized reading of 1.5% methane, which though lower than its 2011 concentration, is still above its LEL.

Elevated concentrations of benzene continue to be observed at GW-1, GW-2, and W-5. The remaining VOC concentrations appear to have remained generally unchanged or slightly lower over time.

The site showed similar concentrations of metals as the previous 2012 sampling event. However, concentrations of chromium and lead are elevated at GW-3, GW-4 and W-5; and zinc remains elevated at GW-3. Each of the wells with elevated concentrations of metals had the highest turbidity readings. A high turbidity reading results from an increased number of suspended sediments. Suspended sediments can act as a bonding agent for heavy metals, and in turn result in increased concentration of heavy metals in the groundwater samples.

ECS recommends that a copy of this report be submitted to the NCDENR Brownfield Program for their review. ECS is pleased to have the opportunity to offer our services. If you have any questions or comments concerning the contents of the enclosed documents or other related topics, please contact us at (910) 686-9114.

Respectfully submitted,

ECS CAROLINAS, LLP

K. Brooks Wall
Staff Geologist

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NORTH CAROLINA LICENSED SEAL 2075 GEOLOGIST JOHN SPENCER LAIR 3/11/14

Enclosures: Figures
Table 1 – Summary of Groundwater Data
Laboratory Data Sheets
Appendix 1 – Brownfields Agreement

TABLE 1 - SUMMARY OF GROUNDWATER DATA
CAPE FEAR SOCCER COMPLEX
211 SUTTON STEAM PLANT ROAD
WILMINGTON, NORTH CAROLINA
ECS PROJECT NO. 22-12830G

		Well Location							
Analyte	Date	GW-1	GW-2	GW-3	GW-4	W-1	W-3	W-5	15A NCAC 2L Standard
Benzene (ug/L)	2/23/2007	**8.08**	**10.40**	<1.00	**2.26**	<1.00	<1.00	**11.00**	1.0
	7/7/2008	**6.43**	**6.43**	<1.00	**2.43**	<1.00	<1.00	**9.79**	
	7/9/2009	**7.09**	**7.32**	<1.00	<1.00	**2.53**	<1.00	**8.03**	
	10/5/2010	**8.5**	**8.6**	<1.0	**2.5**	<1.0	<1.0	**7.2**	
	10/28/2011	**4.3**	**7.7**	<1.0	**2.6**	<1.0	<1.0	**7.8**	
	9/12/2012	**4.4**	**6.1**	<1.0	**2.8**	<1.0	<1.0	**5.7**	
	2/18/2014	**5.3**	**6.8**	<5.0	<1.0	<1.0	<1.0	**8.0**	
Chlorobenzene (ug/L)	2/23/2007	14.30	**58.10**	<1.00	49.60	<1.00	3.77	13.40	50
	7/7/2008	13.10	24.10	<1.00	40.50	1.59	2.46	13.10	
	7/9/2009	22.90	11.30	<1.00	<1.00	20.6	<1.00	36.80	
	10/5/2010	39.5	**54.5**	1.0	34.4	<1.0	<1.00	9.1	
	10/28/2011	15.2	34.0	<1.00	18.8	<1.0	<1.00	15.1	
	9/12/2012	15.4	19.7	<1.00	25.6	<1.0	<1.00	10.3	
	2/18/2014	16.9	33.3	<1.0	35.7	<1.0	<1.0	16.4	
1,2-Dichlorobenzene (ug/L)	2/23/2007	<1.00	2.72	<1.00	5.38	<1.00	<1.00	<1.00	20
	7/7/2008	<1.00	1.82	<1.00	4.06	<1.00	<1.00	<1.00	
	7/9/2009	1.10	<1.00	<1.00	<1.00	2.01	<1.00	2.33	
	10/5/2010	1.3	6.6	<1.00	3.8	<1.0	<1.0	<1.0	
	10/28/2011	<1.0	3.1	<1.00	2.0	<1.0	<1.0	<1.0	
	9/12/2012	<1.0	2.5	<1.0	3.4	<1.0	<1.0	<1.0	
	2/18/2014	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1,4-Dichlorobenzene (ug/L)	2/23/2007	2.37	5.76	<1.00	**6.52**	<1.00	<1.00	1.82	6
	7/7/2008	2.71	5.08	<1.00	**7.23**	<1.00	<1.00	2.36	
	7/9/2009	3.60	1.72	<1.00	<1.00	4.72	<1.00	5.87	
	10/5/2010	**6.3**	**11.5**	1.4	**6.1**	<1.0	<1.0	1.0	
	10/28/2011	3.6	**7.1**	<1.00	5.0	<1.0	<1.0	1.8	
	9/12/2012	3.8	**6.3**	<1.0	5.6	<1.0	<1.0	2.4	
	2/18/2014	<1.0	**7.6**	<1.0	**6.9**	<1.0	<1.0	<1.0	
Isopropylbenzene (ug/L)	2/23/2007	1.48	<2.0	<1.00	<2.00	<1.00	<1.00	1.28	70
	7/7/2008	1.52	1.71	<1.00	1.07	<1.00	<1.00	1.37	
	7/9/2009	1.62	1.14	<1.00	<1.00	<1.00	<1.00	1.56	
	10/5/2010	NA	NA	NA	NA	NA	NA	NA	
	10/28/2011	NA	NA	NA	NA	NA	NA	NA	
	9/12/2012	NA	NA	NA	NA	NA	NA	NA	
	2/18/2014	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
p-Isopropyltoluene (ug/L)	2/23/2007	3.61	<2.0	<1.00	<2.00	<1.00	<1.00	<1.00	25*
	7/7/2008	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	7/9/2009	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	10/5/2010	2.30	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
	10/28/2011	<1.0	<1.0	**88**	<1.0	<1.0	<1.0	<1.0	
	9/12/2012	<1.0	<1.0	18.1	<1.0	<1.0	<1.0	<1.0	
	2/18/2014	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Naphthalene (ug/L)	2/23/2007	**7.84**	<2.0	<1.00	<2.00	<1.00	<1.00	**23.10**	6
	7/7/2008	**7.70**	<1.00	<1.00	1.35	<1.00	<1.00	**21.50**	
	7/9/2009	**8.77**	**13.60**	<1.00	<1.00	1.87	<1.00	<1.00	
	10/5/2010	**25.3**	1.5	<1.0	1.6	<1.0	<1.0	**6.3**	
	10/28/2011	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**10.2**	
	9/12/2012	**8.5**	<1.0	<1.0	<1.0	<1.0	<1.0	**11.8**	
	2/18/2014	**6.2**	<5.0	<5.0	<5.0	<5.0	<5.0	**29.0**	
n-Propylbenzene (ug/L)	2/23/2007	<1.00	<2.0	<1.00	<2.00	<1.00	<1.00	<1.00	70
	7/7/2008	<1.00	1.37	<1.00	<1.00	<1.00	<1.00	<1.00	
	7/9/2009	1.37	<1.00	<1.00	<1.00	<1.00	<1.00	1.26	
	10/5/2010	NA	NA	NA	NA	NA	NA	NA	
	10/28/2011	NA	NA	NA	NA	NA	NA	NA	
	9/12/2012	NA	NA	NA	NA	NA	NA	NA	
	2/18/2014	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	
Aluminum (ug/L)	2/18/2014	1,210	6,160	49,900	64,600	36,400	32,700	70,000	NS
Arsenic (mg/L)	2/23/2007	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0100
	7/7/2008	**0.0139**	<0.0100	**0.0313**	**0.0627**	**0.0366**	<0.0100	**0.0234**	
	7/9/2009	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	
	10/5/2010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**0.0108**	
	10/28/2011	<0.0050	<0.0050	<0.0050	0.0061	0.0053	<0.0050	0.0070	
	9/12/2012	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	
	2/18/2014	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	
Barium (ug/L)	2/18/2014	175	93	180	126	103	47.8	170	700
Cadmium (ug/L)	9/12/2012	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	2
	2/18/2014	<1.0	<1.0	**3.0**	<1.0	<1.0	<1.0	<1.0	

TABLE 1 - SUMMARY OF GROUNDWATER DATA (continued)
CAPE FEAR SOCCER COMPLEX
211 SUTTON STEAM PLANT ROAD
WILMINGTON, NEW HANOVER COUNTY, NORTH CAROLINA
ECS PROJECT NO. 22-12830G

		Well Location							
Analyte	Date	GW-1	GW-2	GW-3	GW-4	W-1	W-3	W-5	15A NCAC 2L Standard
Chromium (mg/L)	2/23/2007	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	0.0100
	7/7/2008	0.0446	0.0406	**0.1340**	**0.2560**	**0.0963**	0.0456	0.0916	
	7/9/2009	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	
	10/5/2010	<0.0050	**0.0137**	**0.0128**	0.0029	**0.0227**	**0.0178**	**0.0413**	
	10/28/2011	<0.0050	<0.0050	0.0081	**0.0267**	**0.0233**	0.0099	**0.0268**	
	9/12/2012	<0.0050	0.0072	<0.0050	**0.0430**	**0.0164**	<0.0050	**0.0215**	
	2/18/2014	<0.0050	<0.0050	**0.0297**	**0.0448**	**0.0238**	**0.0181**	**0.0430**	
Copper (mg/L)	2/23/2007	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	1.0
	7/7/2008	0.1050	0.0450	0.0523	0.2000	0.0610	0.0338	0.0840	
	7/9/2009	<0.0100	<0.0100	0.0160	<0.0100	<0.0100	<0.0100	<0.0100	
	10/5/2010	0.0239	0.0185	0.0164	0.0141	0.0071	0.0098	0.0404	
	10/28/2011	0.0092	<0.0050	0.0267	0.0226	0.0100	0.0068	0.0269	
	9/12/2012	0.0163	0.0120	0.0094	0.0287	0.0066	<0.0050	0.0184	
	2/18/2014	0.0054	0.0086	0.0641	0.0338	0.0108	0.0122	0.0387	
Iron (ug/L)	2/18/2014	58,300	46,800	10,900	48,900	13,200	11,600	57,900	NS
Lead (mg/L)	2/23/2007	0.0113	**0.0193**	**0.1470**	**0.0450**	**0.0512**	<0.0100	0.0106	0.0150
	7/7/2008	**0.0771**	**0.0465**	**0.0707**	**0.1870**	**0.0602**	**0.0346**	**0.113**	
	7/9/2009	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	
	10/5/2010	0.0068	**0.0194**	0.0094	**0.0196**	0.0121	0.0136	**0.0585**	
	10/28/2011	0.0068	<0.0050	<0.0050	**0.171**	0.0114	0.0054	**0.0285**	
	9/12/2012	0.0057	0.0144	<0.0050	**0.0319**	0.0090	<0.0050	**0.0246**	
	2/18/2014	<0.005	0.0118	**0.0159**	**0.0332**	0.0103	0.0101	**0.0430**	
Nickle (mg/L)	2/23/2007	<0.0100	<0.0100	0.0529	<0.0100	<0.0100	<0.0100	<0.0100	0.1000
	7/7/2008	**0.1460**	0.0366	0.0698	**0.1560**	**0.263**	0.0253	0.0477	
	7/9/2009	<0.0100	<0.0100	**0.1130**	<0.0100	<0.0100	<0.0100	<0.0100	
	10/5/2010	0.0162	0.0127	0.0631	0.0209	0.0137	0.0117	0.0256	
	10/28/2011	0.0165	<0.0050	0.0517	0.0158	0.0106	0.0050	0.0124	
	9/12/2012	0.0068	0.0050	0.0529	0.0269	0.0078	0.0050	0.0084	
	2/18/2014	0.0096	<0.0050	0.0801	0.0295	0.0106	0.0100	0.0190	
Selenium (mg/L)	2/23/2007	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	0.0200
	7/7/2008	**0.0332**	**0.0251**	**0.0231**	**0.0385**	<0.0200	<0.0200	**0.0319**	
	7/9/2009	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	
	10/5/2011	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
	10/28/2011	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
	9/12/2012	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
	2/18/2014	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Zinc (mg/L)	2/23/2007	0.0841	0.0447	**5.1600**	0.0482	<0.0200	<0.0200	0.0219	1.0
	7/7/2008	0.5880	0.1960	0.1750	**2.1900**	**22.0000**	0.0680	0.422	
	7/9/2009	<0.0200	<0.0200	**11.4000**	<0.0200	<0.0200	<0.0200	<0.0200	
	10/5/2010	0.0120	0.0238	**9.0500**	0.1890	0.0205	0.0218	0.2000	
	10/28/2011	0.0597	0.0235	**4.490**	0.226	0.0381	0.0169	0.107	
	9/12/2012	0.0328	0.0490	**3.850**	0.357	0.0290	<0.0100	0.0832	
	2/18/2014	0.0364	0.0569	**6.090**	0.727	0.0317	0.0361	0.1700	
Mercury (mg/L)	2/23/2007	<0.000285	<0.000285	<0.000285	<0.000285	<0.000285	<0.000285	<0.000285	0.001
	7/7/2008	0.000444	<0.000285	<0.000285	**0.002040**	0.000679	<0.000285	0.000892	
	7/9/2009	<0.000285	<0.000285	<0.000285	<0.000285	<0.000285	<0.000285	<0.000285	
	10/5/2010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.000430	
	10/28/2011	<0.00020	<0.00020	<0.00020	0.000350	<0.00020	<0.00020	0.000560	
	9/12/2012	<0.00020	<0.00020	<0.00020	0.000340	<0.00020	<0.00020	0.000026	
	2/18/2014	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.000400	
Ammonia (mg/L)	2/23/2007	**17.0**	**39.5**	0.2	**12.1**	**1.2**	**2.6**	**14.4**	1.5
	7/7/2008	**11.4**	**25.2**	0.4	**16.2**	**1.7**	1.1	**13.5**	
	7/9/2009	**12.2**	**42.7**	0.4	**11.1**	0.4	<0.25	**11.0**	
	9/16/2010	**8.5**	**36.6**	**4.3**	**6.1**	0.4	<0.1	**8.9**	
	10/28/2011	**9.6**	**26.1**	**2.2**	**17.7**	**1.3**	0.35	**9.8**	
	9/12/2012	**6.4**	**29.3**	0.11	**15.0**	0.87	<0.010	**14.0**	
	2/18/2014	**6.5**	**38.7**	<0.10	**14.8**	0.62	<0.10	**19.9**	
Chloride (mg/L)	2/23/2007	16.20	10.90	4.50	5.50	4.5	3.80	5.70	250
	7/7/2008	10.20	5.75	6.00	6.10	4.77	4.55	5.74	
	7/9/2009	6.24	10.50	7.39	5.22	4.23	3.35	5.51	
	10/5/2010	5.50	32.60	7.50	7.50	<5.0	<5.0	6.60	
	10/28/2011	<5.00	6.1	<5.0	<5.0	<5.0	<5.0	<5.0	
	9/12/2012	3.2	7.4	3.9	7.1	2.6	2.1	5.0	
	2/18/2014	5.2	7.4	3.9	5.0	2.9	2.4	5.2	

TABLE 1 - SUMMARY OF GROUNDWATER DATA (continued)
CAPE FEAR SOCCER COMPLEX
211 SUTTON STEAM PLANT ROAD
WILMINGTON, NORTH CAROLINA
ECS PROJECT NO. 22-12830G

		Well Location							
Analyte	Date	GW-1	GW-2	GW-3	GW-4	W-1	W-3	W-5	15A NCAC 2L Standard
COD (mg/L)	2/23/2007	74	107	12	60	10	11	44	NS
	7/7/2008	332	132	354	765	172	107	702	
	7/9/2009	52	65	14	58	<12.5	<12.5	39	
	9/17/2010	124	121	100	364	109	25	354	
	10/28/2011	142	51	33	128	93	<25.0	193	
	9/12/2012	69	65	23	80	27	<10.0	59	
	2/18/2014	246	79	96	110	35	28	226	
Nitrate/Nitrite (mg/L)	2/23/2007	<0.02	<0.02	2.75	0.02	2.73	2.63	<0.02	NS
	7/7/2008	0.07	0.07	0.90	0.09	5.34	2.70	0.06	
	7/9/2009	<0.1	<0.1	2.15	<0.1	5.36	2.99	<0.1	
	9/17/2010	<0.10	<0.10	3.3	0.2	3.1	2.5	<0.1	
	10/28/2011	<0.20	<0.20	3.1	<0.20	5.5	2.3	<0.2	
	9/12/2012	0.050	0.043	2.5	0.036	2.9	2.3	0.040	
	2/18/2014	<0.02	<0.02	2.3	<0.02	1.1	2.5	<0.02	
TOC (mg/L)	2/23/2007	35.10	26.60	5.00	9.40	4.0	6.5	32.9	NS
	7/7/2008	29.80	19.00	37.70	80.80	11.0	5.39	40.6	
	7/9/2009	14.00	17.20	4.23	13.10	1.55	0.529	9.69	
	10/5/2010	42.20	183.00	30.70	42.60	20.90	16.10	191.00	
	10/28/2011	44.70	28.0	9.7	32.3	25.8	4.1	28.4	
	9/12/2012	59.9	72.9	64.0	79.6	60.0	43.6	93.8	
	2/18/2014	29.4	28.3	14.6	32.9	10.2	6.5	37.4	
pH (su)	2/23/2007	6.78	6.87	5.92	6.49	6.56	6.58	6.51	6.5-8.5
	7/7/2008	**5.95**	**6.28**	**4.78**	**5.85**	**4.78**	**4.79**	7.05	
	7/9/2009	**6.09**	**6.28**	**6.20**	**5.89**	**5.00**	**6.05**	**5.80**	
	10/5/2010	**5.96**	**6.41**	**4.43**	**6.05**	**5.02**	**3.94**	**5.84**	
	10/28/2011	**6.23**	**6.25**	**5.76**	**6.18**	**5.44**	**5.00**	**6.08**	
	9/12/2012	**5.93**	**6.24**	**4.70**	**6.11**	**5.87**	**4.34**	**6.00**	
	2/18/2014	**6.03**	**6.31**	**4.71**	**6.09**	**5.33**	**4.50**	**6.03**	
Temperature (°C)	2/23/2007	18.2	21.0	17.8	18.4	17.9	17.9	20.0	NS
	7/7/2008	21.5	23.3	23.4	23.3	23.8	23.6	28.0	
	7/9/2009	22.2	22.9	25.1	26.4	33.0	23.2	30.7	
	10/5/2010	23.7	22.8	22.1	24.6	25.0	24.8	22.9	
	10/28/2011	21.5	25.5	20.9	22.1	22.8	22.2	18.8	
	9/12/2012	22.9	23.6	27.1	26.8	28.0	25.6	26.0	
	2/14/2014	20.5	21.9	18.3	21.4	20.0	22.0	29.9	
Conductivity (mS/cm)	2/23/2007	0.948	1.05	0.235	0.657	0.340	0.308	0.648	NS
	7/7/2008	0.71	0.77	0.31	0.53	0.12	0.01	0.56	
	7/9/2009	0.54	0.96	error	error	0.10	0.07	0.49	
	10/5/2010	0.68	1.48	0.22	0.6	0.08	0.04	0.52	
	10/28/2011	0.54	1.12	0.22	0.52	0.13	0.03	0.48	
	9/12/2012	0.36	0.81	0.14	0.63	0.13	0.03	0.45	
	2/14/2014	0.46	0.91	0.12	0.53	0.05	0.03	0.54	
Tubidity (NTU)	2/23/2007	131	134	143	114	162	120	122	NS
	7/7/2008	3.14	358	49.7	error	2,242	1,115	27,000	
	7/9/2009	3.20	5	8.3	19.0	3.55	1.70	21.0	
	10/5/2010	20	104	276	196	721	201	1341	
	10/28/2011	21.2	8.72	79.6	681	927	132	915	
	9/12/2012	13.9	35.1	97.3	467	178	65.7	472	
	2/14/2014	107	151	622	712	900	482	952	

NA = Not Analyzed
NS = No Standard
error = instrument error

Updated by: KBW 2/26/14
Checked by:

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February 27, 2014

Amy Conchas
ECS
4211 Odgen Business Park
Suite 101
Wilmington, NC 28411

RE: Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Dear Amy Conchas:
Enclosed are the analytical results for sample(s) received by the laboratory on February 21, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
Project Manager

Enclosures

cc: Ms. Amy Conchas, ECS

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE ANALYTE COUNT

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92190593001	**GW-1**	EPA 6010	JMW	13	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	71	PASI-C
		EPA 350.1	AES2	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 5220D	EWS	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92190593002	**GW-2**	EPA 6010	JMW	13	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	71	PASI-C
		EPA 350.1	AES2	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 5220D	EWS	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92190593003	**GW-3**	EPA 6010	JMW	13	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	71	PASI-C
		EPA 350.1	AES2	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 5220D	EWS	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92190593004	**GW-4**	EPA 6010	JMW	13	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	71	PASI-C
		EPA 350.1	AES2	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 5220D	EWS	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92190593005	**W-1**	EPA 6010	JMW	13	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	71	PASI-C
		EPA 350.1	AES2	1	PASI-A
		EPA 353.2	DMN	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 5220D	EWS	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92190593006	**W-3**	EPA 6010	JMW	13	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	71	PASI-C
		EPA 350.1	AES2	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 5220D	EWS	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92190593007	**W-5**	EPA 6010	JMW	13	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	71	PASI-C
		EPA 350.1	AES2	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 5220D	EWS	1	PASI-A
		SM 5310B	SAE	1	PASI-A
92190593008	**DUPLICATE**	EPA 6010	JMW	13	PASI-A
		EPA 7470	MTS	1	PASI-A
		EPA 8260	MCK	71	PASI-C
		EPA 350.1	AES2	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		SM 4500-Cl-E	DMN	1	PASI-A
		SM 5220D	EWS	1	PASI-A
		SM 5310B	SAE	1	PASI-A

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: GW-1 **Lab ID: 92190593001** Collected: 02/18/14 16:30 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Aluminum	**1210**	ug/L	100	1	02/22/14 08:45	02/24/14 20:15	7429-90-5	
Arsenic	ND	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:15	7440-38-2	
Barium	**175**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:15	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/22/14 08:45	02/24/14 20:15	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:15	7440-47-3	
Copper	**5.4**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:15	7440-50-8	
Iron	**58300**	ug/L	50.0	1	02/22/14 08:45	02/24/14 20:15	7439-89-6	
Lead	ND	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:15	7439-92-1	
Molybdenum	ND	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:15	7439-98-7	
Nickel	**9.6**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:15	7440-02-0	
Selenium	ND	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:15	7782-49-2	
Silver	ND	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:15	7440-22-4	
Zinc	**36.4**	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:15	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/21/14 20:50	02/24/14 19:06	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/22/14 02:19	67-64-1	
Benzene	**5.3**	ug/L	5.0	1		02/22/14 02:19	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/22/14 02:19	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/22/14 02:19	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/22/14 02:19	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/22/14 02:19	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/22/14 02:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/22/14 02:19	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	1		02/22/14 02:19	75-65-0	
n-Butylbenzene	ND	ug/L	5.0	1		02/22/14 02:19	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/22/14 02:19	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/22/14 02:19	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/14 02:19	56-23-5	
Chlorobenzene	**16.9**	ug/L	5.0	1		02/22/14 02:19	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/22/14 02:19	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/22/14 02:19	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/22/14 02:19	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/22/14 02:19	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/22/14 02:19	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/22/14 02:19	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/22/14 02:19	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/22/14 02:19	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/22/14 02:19	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/22/14 02:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/22/14 02:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/22/14 02:19	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/22/14 02:19	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/14 02:19	75-34-3	

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: GW-1 **Lab ID: 92190593001** Collected: 02/18/14 16:30 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/14 02:19	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	1		02/22/14 02:19	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/14 02:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/14 02:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/14 02:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/22/14 02:19	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/22/14 02:19	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/22/14 02:19	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/22/14 02:19	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/14 02:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/14 02:19	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1		02/22/14 02:19	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1		02/22/14 02:19	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/22/14 02:19	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		02/22/14 02:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/22/14 02:19	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/22/14 02:19	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		02/22/14 02:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/22/14 02:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		02/22/14 02:19	1634-04-4	
Naphthalene	**6.2**	ug/L	5.0	1		02/22/14 02:19	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/22/14 02:19	103-65-1	
Styrene	ND	ug/L	5.0	1		02/22/14 02:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/14 02:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/14 02:19	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/14 02:19	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/14 02:19	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/22/14 02:19	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/22/14 02:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/14 02:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/22/14 02:19	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/22/14 02:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/22/14 02:19	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/22/14 02:19	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/22/14 02:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/22/14 02:19	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/22/14 02:19	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		02/22/14 02:19	75-01-4	
m&p-Xylene	ND	ug/L	10.0	1		02/22/14 02:19	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		02/22/14 02:19	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		02/22/14 02:19	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		02/22/14 02:19	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		02/22/14 02:19	2037-26-5	
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**6.5**	mg/L	0.10	1		02/24/14 14:43	7664-41-7	

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: GW-1 **Lab ID: 92190593001** Collected: 02/18/14 16:30 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.020	1		02/25/14 14:37		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**5.2**	mg/L	1.0	1		02/25/14 18:06	16887-00-6	
5220D COD	Analytical Method: SM 5220D							
Chemical Oxygen Demand	**246**	mg/L	25.0	1		02/26/14 14:00		
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**29.4**	mg/L	1.0	1		02/26/14 18:34	7440-44-0	

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: GW-2 **Lab ID: 92190593002** Collected: 02/18/14 13:30 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Aluminum	**6160**	ug/L	100	1	02/22/14 08:45	02/24/14 20:36	7429-90-5	
Arsenic	ND	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:36	7440-38-2	
Barium	**93.0**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:36	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/22/14 08:45	02/24/14 20:36	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:36	7440-47-3	
Copper	**8.6**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:36	7440-50-8	
Iron	**46800**	ug/L	50.0	1	02/22/14 08:45	02/24/14 20:36	7439-89-6	
Lead	**11.8**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:36	7439-92-1	
Molybdenum	ND	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:36	7439-98-7	
Nickel	ND	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:36	7440-02-0	
Selenium	ND	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:36	7782-49-2	
Silver	ND	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:36	7440-22-4	
Zinc	**56.9**	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:36	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/21/14 20:50	02/24/14 19:09	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/22/14 02:35	67-64-1	
Benzene	**6.8**	ug/L	5.0	1		02/22/14 02:35	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/22/14 02:35	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/22/14 02:35	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/22/14 02:35	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/22/14 02:35	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/22/14 02:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/22/14 02:35	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	1		02/22/14 02:35	75-65-0	
n-Butylbenzene	ND	ug/L	5.0	1		02/22/14 02:35	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/22/14 02:35	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/22/14 02:35	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/14 02:35	56-23-5	
Chlorobenzene	**33.3**	ug/L	5.0	1		02/22/14 02:35	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/22/14 02:35	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/22/14 02:35	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/22/14 02:35	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/22/14 02:35	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/22/14 02:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/22/14 02:35	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/22/14 02:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/22/14 02:35	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/22/14 02:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/22/14 02:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/22/14 02:35	541-73-1	
1,4-Dichlorobenzene	**7.6**	ug/L	5.0	1		02/22/14 02:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/22/14 02:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/14 02:35	75-34-3	

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: GW-2 **Lab ID: 92190593002** Collected: 02/18/14 13:30 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/14 02:35	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	1		02/22/14 02:35	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/14 02:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/14 02:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/14 02:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/22/14 02:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/22/14 02:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/22/14 02:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/22/14 02:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/14 02:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/14 02:35	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1		02/22/14 02:35	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1		02/22/14 02:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/22/14 02:35	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		02/22/14 02:35	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/22/14 02:35	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/22/14 02:35	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		02/22/14 02:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/22/14 02:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		02/22/14 02:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/22/14 02:35	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/22/14 02:35	103-65-1	
Styrene	ND	ug/L	5.0	1		02/22/14 02:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/14 02:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/14 02:35	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/14 02:35	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/14 02:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/22/14 02:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/22/14 02:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/14 02:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/22/14 02:35	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/22/14 02:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/22/14 02:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/22/14 02:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/22/14 02:35	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/22/14 02:35	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/22/14 02:35	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		02/22/14 02:35	75-01-4	
m&p-Xylene	ND	ug/L	10.0	1		02/22/14 02:35	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		02/22/14 02:35	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	70-130	1		02/22/14 02:35	460-00-4	
1,2-Dichloroethane-d4 (S)	84	%	70-130	1		02/22/14 02:35	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		02/22/14 02:35	2037-26-5	
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**38.7**	mg/L	0.50	5		02/24/14 15:54	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: GW-2 **Lab ID: 92190593002** Collected: 02/18/14 13:30 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.020	1		02/25/14 14:38		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**7.4**	mg/L	1.0	1		02/25/14 18:07	16887-00-6	
5220D COD	Analytical Method: SM 5220D							
Chemical Oxygen Demand	**79.0**	mg/L	25.0	1		02/26/14 14:00		
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**28.3**	mg/L	5.0	5		02/27/14 09:06	7440-44-0	

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: GW-3 **Lab ID: 92190593003** Collected: 02/19/14 09:00 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Aluminum	**49900**	ug/L	100	1	02/22/14 08:45	02/24/14 20:39	7429-90-5	
Arsenic	ND	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:39	7440-38-2	
Barium	**180**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:39	7440-39-3	
Cadmium	**3.0**	ug/L	1.0	1	02/22/14 08:45	02/24/14 20:39	7440-43-9	
Chromium	**29.7**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:39	7440-47-3	
Copper	**64.1**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:39	7440-50-8	
Iron	**10900**	ug/L	50.0	1	02/22/14 08:45	02/24/14 20:39	7439-89-6	
Lead	**15.9**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:39	7439-92-1	
Molybdenum	ND	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:39	7439-98-7	
Nickel	**80.1**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:39	7440-02-0	
Selenium	ND	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:39	7782-49-2	
Silver	ND	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:39	7440-22-4	
Zinc	**6090**	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:39	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/21/14 20:50	02/24/14 19:11	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/22/14 02:51	67-64-1	
Benzene	ND	ug/L	5.0	1		02/22/14 02:51	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/22/14 02:51	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/22/14 02:51	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/22/14 02:51	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/22/14 02:51	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/22/14 02:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/22/14 02:51	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	1		02/22/14 02:51	75-65-0	
n-Butylbenzene	ND	ug/L	5.0	1		02/22/14 02:51	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/22/14 02:51	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/22/14 02:51	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/14 02:51	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/22/14 02:51	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/22/14 02:51	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/22/14 02:51	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/22/14 02:51	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/22/14 02:51	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/22/14 02:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/22/14 02:51	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/22/14 02:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/22/14 02:51	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/22/14 02:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/22/14 02:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/22/14 02:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/22/14 02:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/22/14 02:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/14 02:51	75-34-3	

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: GW-3 **Lab ID: 92190593003** Collected: 02/19/14 09:00 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/14 02:51	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	1		02/22/14 02:51	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/14 02:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/14 02:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/14 02:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/22/14 02:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/22/14 02:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/22/14 02:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/22/14 02:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/14 02:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/14 02:51	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1		02/22/14 02:51	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1		02/22/14 02:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/22/14 02:51	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		02/22/14 02:51	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/22/14 02:51	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/22/14 02:51	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		02/22/14 02:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/22/14 02:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		02/22/14 02:51	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/22/14 02:51	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/22/14 02:51	103-65-1	
Styrene	ND	ug/L	5.0	1		02/22/14 02:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/14 02:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/14 02:51	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/14 02:51	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/14 02:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/22/14 02:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/22/14 02:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/14 02:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/22/14 02:51	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/22/14 02:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/22/14 02:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/22/14 02:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/22/14 02:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/22/14 02:51	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/22/14 02:51	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		02/22/14 02:51	75-01-4	
m&p-Xylene	ND	ug/L	10.0	1		02/22/14 02:51	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		02/22/14 02:51	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		02/22/14 02:51	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		02/22/14 02:51	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		02/22/14 02:51	2037-26-5	
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	ND	mg/L	0.10	1		02/24/14 14:45	7664-41-7	

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: GW-3 **Lab ID: 92190593003** Collected: 02/19/14 09:00 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**2.3**	mg/L	0.020	1		02/25/14 14:41		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**3.9**	mg/L	1.0	1		02/25/14 18:09	16887-00-6	
5220D COD	Analytical Method: SM 5220D							
Chemical Oxygen Demand	**96.0**	mg/L	25.0	1		02/26/14 14:00		
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**14.6**	mg/L	1.0	1		02/26/14 19:12	7440-44-0	

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: GW-4 **Lab ID: 92190593004** Collected: 02/19/14 10:30 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Aluminum	**64600**	ug/L	100	1	02/22/14 08:45	02/24/14 20:43	7429-90-5	
Arsenic	ND	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:43	7440-38-2	
Barium	**126**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:43	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/22/14 08:45	02/24/14 20:43	7440-43-9	
Chromium	**44.8**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:43	7440-47-3	
Copper	**33.8**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:43	7440-50-8	
Iron	**48900**	ug/L	50.0	1	02/22/14 08:45	02/24/14 20:43	7439-89-6	
Lead	**33.2**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:43	7439-92-1	
Molybdenum	ND	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:43	7439-98-7	
Nickel	**29.5**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:43	7440-02-0	
Selenium	ND	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:43	7782-49-2	
Silver	ND	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:43	7440-22-4	
Zinc	**727**	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:43	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/21/14 20:50	02/24/14 19:14	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/22/14 03:07	67-64-1	
Benzene	ND	ug/L	5.0	1		02/22/14 03:07	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/22/14 03:07	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/22/14 03:07	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/22/14 03:07	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/22/14 03:07	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/22/14 03:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/22/14 03:07	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	1		02/22/14 03:07	75-65-0	
n-Butylbenzene	ND	ug/L	5.0	1		02/22/14 03:07	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/22/14 03:07	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/22/14 03:07	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/14 03:07	56-23-5	
Chlorobenzene	**35.7**	ug/L	5.0	1		02/22/14 03:07	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/22/14 03:07	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/22/14 03:07	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/22/14 03:07	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/22/14 03:07	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/22/14 03:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/22/14 03:07	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/22/14 03:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/22/14 03:07	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/22/14 03:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/22/14 03:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/22/14 03:07	541-73-1	
1,4-Dichlorobenzene	**6.9**	ug/L	5.0	1		02/22/14 03:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/22/14 03:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/14 03:07	75-34-3	

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: GW-4 **Lab ID: 92190593004** Collected: 02/19/14 10:30 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/14 03:07	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	1		02/22/14 03:07	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/14 03:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/14 03:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/14 03:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/22/14 03:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/22/14 03:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/22/14 03:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/22/14 03:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/14 03:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/14 03:07	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1		02/22/14 03:07	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1		02/22/14 03:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/22/14 03:07	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		02/22/14 03:07	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/22/14 03:07	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/22/14 03:07	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		02/22/14 03:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/22/14 03:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		02/22/14 03:07	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/22/14 03:07	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/22/14 03:07	103-65-1	
Styrene	ND	ug/L	5.0	1		02/22/14 03:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/14 03:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/14 03:07	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/14 03:07	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/14 03:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/22/14 03:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/22/14 03:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/14 03:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/22/14 03:07	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/22/14 03:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/22/14 03:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/22/14 03:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/22/14 03:07	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/22/14 03:07	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/22/14 03:07	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		02/22/14 03:07	75-01-4	
m&p-Xylene	ND	ug/L	10.0	1		02/22/14 03:07	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		02/22/14 03:07	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		02/22/14 03:07	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		02/22/14 03:07	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		02/22/14 03:07	2037-26-5	
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**14.8**	mg/L	0.50	5		02/24/14 15:56	7664-41-7	

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: GW-4 **Lab ID: 92190593004** Collected: 02/19/14 10:30 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.020	1		02/25/14 14:43		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**5.0**	mg/L	1.0	1		02/25/14 18:10	16887-00-6	
5220D COD	Analytical Method: SM 5220D							
Chemical Oxygen Demand	**110**	mg/L	25.0	1		02/26/14 14:00		
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**32.9**	mg/L	1.0	1		02/26/14 19:23	7440-44-0	

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: W-1 **Lab ID: 92190593005** Collected: 02/19/14 11:30 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Aluminum	**36400**	ug/L	100	1	02/22/14 08:45	02/24/14 20:46	7429-90-5	
Arsenic	ND	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:46	7440-38-2	
Barium	**103**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:46	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/22/14 08:45	02/24/14 20:46	7440-43-9	
Chromium	**23.8**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:46	7440-47-3	
Copper	**10.8**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:46	7440-50-8	
Iron	**13200**	ug/L	50.0	1	02/22/14 08:45	02/24/14 20:46	7439-89-6	
Lead	**10.3**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:46	7439-92-1	
Molybdenum	ND	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:46	7439-98-7	
Nickel	**10.6**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:46	7440-02-0	
Selenium	ND	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:46	7782-49-2	
Silver	ND	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:46	7440-22-4	
Zinc	**31.7**	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:46	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/21/14 20:50	02/24/14 19:17	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/22/14 03:23	67-64-1	
Benzene	ND	ug/L	5.0	1		02/22/14 03:23	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/22/14 03:23	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/22/14 03:23	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/22/14 03:23	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/22/14 03:23	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/22/14 03:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/22/14 03:23	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	1		02/22/14 03:23	75-65-0	
n-Butylbenzene	ND	ug/L	5.0	1		02/22/14 03:23	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/22/14 03:23	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/22/14 03:23	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/14 03:23	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/22/14 03:23	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/22/14 03:23	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/22/14 03:23	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/22/14 03:23	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/22/14 03:23	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/22/14 03:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/22/14 03:23	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/22/14 03:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/22/14 03:23	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/22/14 03:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/22/14 03:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/22/14 03:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/22/14 03:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/22/14 03:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/14 03:23	75-34-3	

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: W-1 **Lab ID: 92190593005** Collected: 02/19/14 11:30 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/14 03:23	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	1		02/22/14 03:23	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/14 03:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/14 03:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/14 03:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/22/14 03:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/22/14 03:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/22/14 03:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/22/14 03:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/14 03:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/14 03:23	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1		02/22/14 03:23	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1		02/22/14 03:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/22/14 03:23	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		02/22/14 03:23	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/22/14 03:23	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/22/14 03:23	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		02/22/14 03:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/22/14 03:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		02/22/14 03:23	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/22/14 03:23	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/22/14 03:23	103-65-1	
Styrene	ND	ug/L	5.0	1		02/22/14 03:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/14 03:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/14 03:23	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/14 03:23	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/14 03:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/22/14 03:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/22/14 03:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/14 03:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/22/14 03:23	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/22/14 03:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/22/14 03:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/22/14 03:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/22/14 03:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/22/14 03:23	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/22/14 03:23	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		02/22/14 03:23	75-01-4	
m&p-Xylene	ND	ug/L	10.0	1		02/22/14 03:23	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		02/22/14 03:23	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	97	%	70-130	1		02/22/14 03:23	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		02/22/14 03:23	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		02/22/14 03:23	2037-26-5	
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.62**	mg/L	0.10	1		02/24/14 14:48	7664-41-7	

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: W-1 **Lab ID: 92190593005** Collected: 02/19/14 11:30 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**1.1**	mg/L	0.020	1		02/25/14 14:44		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**2.9**	mg/L	1.0	1		02/25/14 18:11	16887-00-6	
5220D COD	Analytical Method: SM 5220D							
Chemical Oxygen Demand	**35.0**	mg/L	25.0	1		02/26/14 14:00		
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**10.2**	mg/L	1.0	1		02/26/14 19:38	7440-44-0	

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: W-3 **Lab ID: 92190593006** Collected: 02/19/14 12:30 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Aluminum	**32700**	ug/L	100	1	02/22/14 08:45	02/24/14 20:49	7429-90-5	
Arsenic	ND	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:49	7440-38-2	
Barium	**47.8**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:49	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/22/14 08:45	02/24/14 20:49	7440-43-9	
Chromium	**18.1**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:49	7440-47-3	
Copper	**12.2**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:49	7440-50-8	
Iron	**11600**	ug/L	50.0	1	02/22/14 08:45	02/24/14 20:49	7439-89-6	
Lead	**10.1**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:49	7439-92-1	
Molybdenum	ND	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:49	7439-98-7	
Nickel	**10**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:49	7440-02-0	
Selenium	ND	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:49	7782-49-2	
Silver	ND	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:49	7440-22-4	
Zinc	**36.1**	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:49	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/21/14 20:50	02/24/14 19:25	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/22/14 03:39	67-64-1	
Benzene	ND	ug/L	5.0	1		02/22/14 03:39	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/22/14 03:39	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/22/14 03:39	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/22/14 03:39	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/22/14 03:39	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/22/14 03:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/22/14 03:39	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	1		02/22/14 03:39	75-65-0	
n-Butylbenzene	ND	ug/L	5.0	1		02/22/14 03:39	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/22/14 03:39	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/22/14 03:39	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/14 03:39	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/22/14 03:39	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/22/14 03:39	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/22/14 03:39	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/22/14 03:39	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/22/14 03:39	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/22/14 03:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/22/14 03:39	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/22/14 03:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/22/14 03:39	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/22/14 03:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/22/14 03:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/22/14 03:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/22/14 03:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/22/14 03:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/14 03:39	75-34-3	

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: W-3 **Lab ID: 92190593006** Collected: 02/19/14 12:30 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/14 03:39	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	1		02/22/14 03:39	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/14 03:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/14 03:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/14 03:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/22/14 03:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/22/14 03:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/22/14 03:39	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/22/14 03:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/14 03:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/14 03:39	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1		02/22/14 03:39	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1		02/22/14 03:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/22/14 03:39	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		02/22/14 03:39	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/22/14 03:39	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/22/14 03:39	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		02/22/14 03:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/22/14 03:39	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		02/22/14 03:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/22/14 03:39	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/22/14 03:39	103-65-1	
Styrene	ND	ug/L	5.0	1		02/22/14 03:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/14 03:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/14 03:39	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/14 03:39	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/14 03:39	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/22/14 03:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/22/14 03:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/14 03:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/22/14 03:39	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/22/14 03:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/22/14 03:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/22/14 03:39	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/22/14 03:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/22/14 03:39	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/22/14 03:39	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		02/22/14 03:39	75-01-4	
m&p-Xylene	ND	ug/L	10.0	1		02/22/14 03:39	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		02/22/14 03:39	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		02/22/14 03:39	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130	1		02/22/14 03:39	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		02/22/14 03:39	2037-26-5	
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	ND	mg/L	0.10	1		02/24/14 14:49	7664-41-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: W-3 **Lab ID: 92190593006** Collected: 02/19/14 12:30 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**2.5**	mg/L	0.020	1		02/25/14 14:45		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**2.4**	mg/L	1.0	1		02/25/14 18:12	16887-00-6	
5220D COD	Analytical Method: SM 5220D							
Chemical Oxygen Demand	**28.0**	mg/L	25.0	1		02/26/14 14:00		
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**6.5**	mg/L	1.0	1		02/26/14 19:48	7440-44-0	

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: W-5 **Lab ID: 92190593007** Collected: 02/19/14 13:30 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Aluminum	**70000**	ug/L	100	1	02/22/14 08:45	02/24/14 20:53	7429-90-5	
Arsenic	ND	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:53	7440-38-2	
Barium	**170**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:53	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/22/14 08:45	02/24/14 20:53	7440-43-9	
Chromium	**43.0**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:53	7440-47-3	
Copper	**38.7**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:53	7440-50-8	
Iron	**57900**	ug/L	50.0	1	02/22/14 08:45	02/24/14 20:53	7439-89-6	
Lead	**43.0**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:53	7439-92-1	
Molybdenum	ND	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:53	7439-98-7	
Nickel	**19.0**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:53	7440-02-0	
Selenium	ND	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:53	7782-49-2	
Silver	ND	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:53	7440-22-4	
Zinc	**170**	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:53	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**0.40**	ug/L	0.20	1	02/21/14 20:50	02/24/14 19:27	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/22/14 03:55	67-64-1	
Benzene	**8.0**	ug/L	5.0	1		02/22/14 03:55	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/22/14 03:55	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/22/14 03:55	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/22/14 03:55	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/22/14 03:55	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/22/14 03:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/22/14 03:55	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	1		02/22/14 03:55	75-65-0	
n-Butylbenzene	ND	ug/L	5.0	1		02/22/14 03:55	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/22/14 03:55	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/22/14 03:55	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/14 03:55	56-23-5	
Chlorobenzene	**16.4**	ug/L	5.0	1		02/22/14 03:55	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/22/14 03:55	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/22/14 03:55	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/22/14 03:55	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/22/14 03:55	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/22/14 03:55	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/22/14 03:55	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/22/14 03:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/22/14 03:55	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/22/14 03:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/22/14 03:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/22/14 03:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/22/14 03:55	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/22/14 03:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/14 03:55	75-34-3	

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: W-5 **Lab ID: 92190593007** Collected: 02/19/14 13:30 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/14 03:55	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	1		02/22/14 03:55	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/14 03:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/14 03:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/14 03:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/22/14 03:55	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/22/14 03:55	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/22/14 03:55	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/22/14 03:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/14 03:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/14 03:55	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1		02/22/14 03:55	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1		02/22/14 03:55	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/22/14 03:55	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		02/22/14 03:55	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/22/14 03:55	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/22/14 03:55	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		02/22/14 03:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/22/14 03:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		02/22/14 03:55	1634-04-4	
Naphthalene	**29.0**	ug/L	5.0	1		02/22/14 03:55	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/22/14 03:55	103-65-1	
Styrene	ND	ug/L	5.0	1		02/22/14 03:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/14 03:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/14 03:55	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/14 03:55	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/14 03:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/22/14 03:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/22/14 03:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/14 03:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/22/14 03:55	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/22/14 03:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/22/14 03:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/22/14 03:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/22/14 03:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/22/14 03:55	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/22/14 03:55	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		02/22/14 03:55	75-01-4	
m&p-Xylene	ND	ug/L	10.0	1		02/22/14 03:55	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		02/22/14 03:55	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		02/22/14 03:55	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		02/22/14 03:55	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		02/22/14 03:55	2037-26-5	
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**19.9**	mg/L	0.50	5		02/24/14 15:57	7664-41-7	

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: W-5 **Lab ID: 92190593007** Collected: 02/19/14 13:30 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.020	1		02/25/14 14:46		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**5.2**	mg/L	1.0	1		02/25/14 18:12	16887-00-6	
5220D COD	Analytical Method: SM 5220D							
Chemical Oxygen Demand	**226**	mg/L	25.0	1		02/26/14 14:00		
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**37.4**	mg/L	1.0	1		02/26/14 20:39	7440-44-0	

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: DUPLICATE **Lab ID: 92190593008** Collected: 02/19/14 00:00 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Aluminum	**6390**	ug/L	100	1	02/22/14 08:45	02/24/14 20:56	7429-90-5	
Arsenic	ND	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:56	7440-38-2	
Barium	**92.9**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:56	7440-39-3	
Cadmium	ND	ug/L	1.0	1	02/22/14 08:45	02/24/14 20:56	7440-43-9	
Chromium	ND	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:56	7440-47-3	
Copper	**8.8**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:56	7440-50-8	
Iron	**46900**	ug/L	50.0	1	02/22/14 08:45	02/24/14 20:56	7439-89-6	
Lead	**12.6**	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:56	7439-92-1	
Molybdenum	ND	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:56	7439-98-7	
Nickel	ND	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:56	7440-02-0	
Selenium	ND	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:56	7782-49-2	
Silver	ND	ug/L	5.0	1	02/22/14 08:45	02/24/14 20:56	7440-22-4	
Zinc	**56.9**	ug/L	10.0	1	02/22/14 08:45	02/24/14 20:56	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	ND	ug/L	0.20	1	02/21/14 20:50	02/24/14 19:30	7439-97-6	
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	25.0	1		02/22/14 04:11	67-64-1	
Benzene	**6.2**	ug/L	5.0	1		02/22/14 04:11	71-43-2	
Bromobenzene	ND	ug/L	5.0	1		02/22/14 04:11	108-86-1	
Bromochloromethane	ND	ug/L	5.0	1		02/22/14 04:11	74-97-5	
Bromodichloromethane	ND	ug/L	5.0	1		02/22/14 04:11	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/22/14 04:11	75-25-2	
Bromomethane	ND	ug/L	10.0	1		02/22/14 04:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/22/14 04:11	78-93-3	
tert-Butyl Alcohol	ND	ug/L	100	1		02/22/14 04:11	75-65-0	
n-Butylbenzene	ND	ug/L	5.0	1		02/22/14 04:11	104-51-8	
sec-Butylbenzene	ND	ug/L	5.0	1		02/22/14 04:11	135-98-8	
tert-Butylbenzene	ND	ug/L	5.0	1		02/22/14 04:11	98-06-6	
Carbon tetrachloride	ND	ug/L	5.0	1		02/22/14 04:11	56-23-5	
Chlorobenzene	**30.2**	ug/L	5.0	1		02/22/14 04:11	108-90-7	
Chloroethane	ND	ug/L	10.0	1		02/22/14 04:11	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/22/14 04:11	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/22/14 04:11	74-87-3	
2-Chlorotoluene	ND	ug/L	5.0	1		02/22/14 04:11	95-49-8	
4-Chlorotoluene	ND	ug/L	5.0	1		02/22/14 04:11	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	5.0	1		02/22/14 04:11	96-12-8	
Dibromochloromethane	ND	ug/L	5.0	1		02/22/14 04:11	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		02/22/14 04:11	106-93-4	
Dibromomethane	ND	ug/L	5.0	1		02/22/14 04:11	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/22/14 04:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/22/14 04:11	541-73-1	
1,4-Dichlorobenzene	**6.7**	ug/L	5.0	1		02/22/14 04:11	106-46-7	
Dichlorodifluoromethane	ND	ug/L	5.0	1		02/22/14 04:11	75-71-8	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/22/14 04:11	75-34-3	

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: DUPLICATE **Lab ID: 92190593008** Collected: 02/19/14 00:00 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
1,2-Dichloroethane	ND	ug/L	5.0	1		02/22/14 04:11	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	5.0	1		02/22/14 04:11	540-59-0	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/22/14 04:11	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/14 04:11	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/22/14 04:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/22/14 04:11	78-87-5	
1,3-Dichloropropane	ND	ug/L	5.0	1		02/22/14 04:11	142-28-9	
2,2-Dichloropropane	ND	ug/L	5.0	1		02/22/14 04:11	594-20-7	
1,1-Dichloropropene	ND	ug/L	5.0	1		02/22/14 04:11	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/14 04:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/22/14 04:11	10061-02-6	
Diisopropyl ether	ND	ug/L	5.0	1		02/22/14 04:11	108-20-3	
Ethylbenzene	ND	ug/L	5.0	1		02/22/14 04:11	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	5.0	1		02/22/14 04:11	87-68-3	
2-Hexanone	ND	ug/L	10.0	1		02/22/14 04:11	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	5.0	1		02/22/14 04:11	98-82-8	
p-Isopropyltoluene	ND	ug/L	5.0	1		02/22/14 04:11	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		02/22/14 04:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/22/14 04:11	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		02/22/14 04:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		02/22/14 04:11	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		02/22/14 04:11	103-65-1	
Styrene	ND	ug/L	5.0	1		02/22/14 04:11	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/14 04:11	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/22/14 04:11	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/22/14 04:11	127-18-4	
Toluene	ND	ug/L	5.0	1		02/22/14 04:11	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		02/22/14 04:11	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		02/22/14 04:11	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/22/14 04:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/22/14 04:11	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/22/14 04:11	79-01-6	
Trichlorofluoromethane	ND	ug/L	10.0	1		02/22/14 04:11	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		02/22/14 04:11	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		02/22/14 04:11	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		02/22/14 04:11	108-67-8	
Vinyl acetate	ND	ug/L	10.0	1		02/22/14 04:11	108-05-4	
Vinyl chloride	ND	ug/L	5.0	1		02/22/14 04:11	75-01-4	
m&p-Xylene	ND	ug/L	10.0	1		02/22/14 04:11	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		02/22/14 04:11	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	70-130	1		02/22/14 04:11	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		02/22/14 04:11	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		02/22/14 04:11	2037-26-5	
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**39.3**	mg/L	0.50	5		02/24/14 15:59	7664-41-7	

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ANALYTICAL RESULTS

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Sample: DUPLICATE **Lab ID: 92190593008** Collected: 02/19/14 00:00 Received: 02/21/14 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	ND	mg/L	0.020	1		02/25/14 14:47		
4500 Chloride	Analytical Method: SM 4500-Cl-E							
Chloride	**7.5**	mg/L	1.0	1		02/25/14 18:13	16887-00-6	
5220D COD	Analytical Method: SM 5220D							
Chemical Oxygen Demand	**88.0**	mg/L	25.0	1		02/26/14 14:00		
5310B TOC	Analytical Method: SM 5310B							
Total Organic Carbon	**29.2**	mg/L	1.0	1		02/26/14 20:50	7440-44-0	

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QUALITY CONTROL DATA

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

QC Batch: MERP/6212 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92190593001, 92190593002, 92190593003, 92190593004, 92190593005, 92190593006, 92190593007, 92190593008

METHOD BLANK: 1143175 Matrix: Water
Associated Lab Samples: 92190593001, 92190593002, 92190593003, 92190593004, 92190593005, 92190593006, 92190593007, 92190593008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	02/24/14 18:53	

LABORATORY CONTROL SAMPLE: 1143176

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.6	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1143177 1143178

Parameter	Units	92188563001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.6	2.4	103	93	75-125	10	

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QUALITY CONTROL DATA

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

QC Batch: MPRP/15294 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 92190593001, 92190593002, 92190593003, 92190593004, 92190593005, 92190593006, 92190593007, 92190593008

METHOD BLANK: 1143220 Matrix: Water
Associated Lab Samples: 92190593001, 92190593002, 92190593003, 92190593004, 92190593005, 92190593006, 92190593007, 92190593008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	100	02/24/14 20:02	
Arsenic	ug/L	ND	10.0	02/24/14 20:02	
Barium	ug/L	ND	5.0	02/24/14 20:02	
Cadmium	ug/L	ND	1.0	02/24/14 20:02	
Chromium	ug/L	ND	5.0	02/24/14 20:02	
Copper	ug/L	ND	5.0	02/24/14 20:02	
Iron	ug/L	ND	50.0	02/24/14 20:02	
Lead	ug/L	ND	5.0	02/24/14 20:02	
Molybdenum	ug/L	ND	5.0	02/24/14 20:02	
Nickel	ug/L	ND	5.0	02/24/14 20:02	
Selenium	ug/L	ND	10.0	02/24/14 20:02	
Silver	ug/L	ND	5.0	02/24/14 20:02	
Zinc	ug/L	ND	10.0	02/24/14 20:02	

LABORATORY CONTROL SAMPLE: 1143221

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	5000	4980	100	80-120	
Arsenic	ug/L	500	484	97	80-120	
Barium	ug/L	500	495	99	80-120	
Cadmium	ug/L	500	504	101	80-120	
Chromium	ug/L	500	524	105	80-120	
Copper	ug/L	500	490	98	80-120	
Iron	ug/L	5000	5040	101	80-120	
Lead	ug/L	500	495	99	80-120	
Molybdenum	ug/L	500	508	102	80-120	
Nickel	ug/L	500	500	100	80-120	
Selenium	ug/L	500	494	99	80-120	
Silver	ug/L	250	246	98	80-120	
Zinc	ug/L	500	495	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1143222 1143223

Parameter	Units	92190593001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Aluminum	ug/L	1210	5000	5000	6470	6530	105	106	75-125	1	
Arsenic	ug/L	ND	500	500	484	494	97	99	75-125	2	
Barium	ug/L	175	500	500	663	666	98	98	75-125	0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1143222 1143223

Parameter	Units	92190593001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Cadmium	ug/L	ND	500	500	489	495	98	99	75-125	1	
Chromium	ug/L	ND	500	500	522	526	104	105	75-125	1	
Copper	ug/L	5.4	500	500	508	512	101	101	75-125	1	
Iron	ug/L	58300	5000	5000	62600	62600	85	85	75-125	0	
Lead	ug/L	ND	500	500	486	490	96	97	75-125	1	
Molybdenum	ug/L	ND	500	500	506	511	101	102	75-125	1	
Nickel	ug/L	9.6	500	500	498	502	98	98	75-125	1	
Selenium	ug/L	ND	500	500	483	488	95	96	75-125	1	
Silver	ug/L	ND	250	250	246	248	98	99	75-125	1	
Zinc	ug/L	36.4	500	500	525	530	98	99	75-125	1	

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QUALITY CONTROL DATA

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

QC Batch: MSV/25866 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 92190593001, 92190593002, 92190593003, 92190593004, 92190593005, 92190593006, 92190593007, 92190593008

METHOD BLANK: 1142957 Matrix: Water
Associated Lab Samples: 92190593001, 92190593002, 92190593003, 92190593004, 92190593005, 92190593006, 92190593007, 92190593008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	02/22/14 02:04	
1,1,1-Trichloroethane	ug/L	ND	5.0	02/22/14 02:04	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	02/22/14 02:04	
1,1,2-Trichloroethane	ug/L	ND	5.0	02/22/14 02:04	
1,1-Dichloroethane	ug/L	ND	5.0	02/22/14 02:04	
1,1-Dichloroethene	ug/L	ND	5.0	02/22/14 02:04	
1,1-Dichloropropene	ug/L	ND	5.0	02/22/14 02:04	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	02/22/14 02:04	
1,2,3-Trichloropropane	ug/L	ND	5.0	02/22/14 02:04	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	02/22/14 02:04	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	02/22/14 02:04	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	02/22/14 02:04	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	02/22/14 02:04	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/22/14 02:04	
1,2-Dichloroethane	ug/L	ND	5.0	02/22/14 02:04	
1,2-Dichloroethene (Total)	ug/L	ND	5.0	02/22/14 02:04	
1,2-Dichloropropane	ug/L	ND	5.0	02/22/14 02:04	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	02/22/14 02:04	
1,3-Dichlorobenzene	ug/L	ND	5.0	02/22/14 02:04	
1,3-Dichloropropane	ug/L	ND	5.0	02/22/14 02:04	
1,4-Dichlorobenzene	ug/L	ND	5.0	02/22/14 02:04	
2,2-Dichloropropane	ug/L	ND	5.0	02/22/14 02:04	
2-Butanone (MEK)	ug/L	ND	10.0	02/22/14 02:04	
2-Chlorotoluene	ug/L	ND	5.0	02/22/14 02:04	
2-Hexanone	ug/L	ND	10.0	02/22/14 02:04	
4-Chlorotoluene	ug/L	ND	5.0	02/22/14 02:04	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/22/14 02:04	
Acetone	ug/L	ND	25.0	02/22/14 02:04	
Benzene	ug/L	ND	5.0	02/22/14 02:04	
Bromobenzene	ug/L	ND	5.0	02/22/14 02:04	
Bromochloromethane	ug/L	ND	5.0	02/22/14 02:04	
Bromodichloromethane	ug/L	ND	5.0	02/22/14 02:04	
Bromoform	ug/L	ND	5.0	02/22/14 02:04	
Bromomethane	ug/L	ND	10.0	02/22/14 02:04	
Carbon tetrachloride	ug/L	ND	5.0	02/22/14 02:04	
Chlorobenzene	ug/L	ND	5.0	02/22/14 02:04	
Chloroethane	ug/L	ND	10.0	02/22/14 02:04	
Chloroform	ug/L	ND	5.0	02/22/14 02:04	
Chloromethane	ug/L	ND	5.0	02/22/14 02:04	
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/22/14 02:04	
cis-1,3-Dichloropropene	ug/L	ND	5.0	02/22/14 02:04	

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QUALITY CONTROL DATA

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

METHOD BLANK: 1142957 Matrix: Water

Associated Lab Samples: 92190593001, 92190593002, 92190593003, 92190593004, 92190593005, 92190593006, 92190593007, 92190593008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	5.0	02/22/14 02:04	
Dibromomethane	ug/L	ND	5.0	02/22/14 02:04	
Dichlorodifluoromethane	ug/L	ND	5.0	02/22/14 02:04	
Diisopropyl ether	ug/L	ND	5.0	02/22/14 02:04	
Ethylbenzene	ug/L	ND	5.0	02/22/14 02:04	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	02/22/14 02:04	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	02/22/14 02:04	
m&p-Xylene	ug/L	ND	10.0	02/22/14 02:04	
Methyl-tert-butyl ether	ug/L	ND	5.0	02/22/14 02:04	
Methylene Chloride	ug/L	ND	5.0	02/22/14 02:04	
n-Butylbenzene	ug/L	ND	5.0	02/22/14 02:04	
n-Propylbenzene	ug/L	ND	5.0	02/22/14 02:04	
Naphthalene	ug/L	ND	5.0	02/22/14 02:04	
o-Xylene	ug/L	ND	5.0	02/22/14 02:04	
p-Isopropyltoluene	ug/L	ND	5.0	02/22/14 02:04	
sec-Butylbenzene	ug/L	ND	5.0	02/22/14 02:04	
Styrene	ug/L	ND	5.0	02/22/14 02:04	
tert-Butyl Alcohol	ug/L	ND	100	02/22/14 02:04	
tert-Butylbenzene	ug/L	ND	5.0	02/22/14 02:04	
Tetrachloroethene	ug/L	ND	5.0	02/22/14 02:04	
Toluene	ug/L	ND	5.0	02/22/14 02:04	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/22/14 02:04	
trans-1,3-Dichloropropene	ug/L	ND	5.0	02/22/14 02:04	
Trichloroethene	ug/L	ND	5.0	02/22/14 02:04	
Trichlorofluoromethane	ug/L	ND	10.0	02/22/14 02:04	
Vinyl acetate	ug/L	ND	10.0	02/22/14 02:04	
Vinyl chloride	ug/L	ND	5.0	02/22/14 02:04	
1,2-Dichloroethane-d4 (S)	%	92	70-130	02/22/14 02:04	
4-Bromofluorobenzene (S)	%	99	70-130	02/22/14 02:04	
Toluene-d8 (S)	%	95	70-130	02/22/14 02:04	

LABORATORY CONTROL SAMPLE: 1142958

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	53.4	107	70-130	
1,1,1-Trichloroethane	ug/L	50	50.5	101	70-137	
1,1,2,2-Tetrachloroethane	ug/L	50	51.2	102	70-130	
1,1,2-Trichloroethane	ug/L	50	55.1	110	70-130	
1,1-Dichloroethane	ug/L	50	49.9	100	70-137	
1,1-Dichloroethene	ug/L	50	50.2	100	70-138	
1,1-Dichloropropene	ug/L	50	50.8	102	70-130	
1,2,3-Trichlorobenzene	ug/L	50	41.3	83	70-143	
1,2,3-Trichloropropane	ug/L	50	50.7	101	70-130	
1,2,4-Trichlorobenzene	ug/L	50	42.7	85	70-138	

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QUALITY CONTROL DATA

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

LABORATORY CONTROL SAMPLE: 1142958

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	50	47.6	95	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	46.8	94	68-134	
1,2-Dibromoethane (EDB)	ug/L	50	54.3	109	70-130	
1,2-Dichlorobenzene	ug/L	50	49.6	99	70-130	
1,2-Dichloroethane	ug/L	50	50.2	100	70-133	
1,2-Dichloroethene (Total)	ug/L	100	96.7	97	70-130	
1,2-Dichloropropane	ug/L	50	52.1	104	70-130	
1,3,5-Trimethylbenzene	ug/L	50	47.4	95	70-130	
1,3-Dichlorobenzene	ug/L	50	47.4	95	70-130	
1,3-Dichloropropane	ug/L	50	52.4	105	70-130	
1,4-Dichlorobenzene	ug/L	50	48.3	97	70-130	
2,2-Dichloropropane	ug/L	50	41.6	83	61-142	
2-Butanone (MEK)	ug/L	100	105	105	63-150	
2-Chlorotoluene	ug/L	50	47.3	95	70-130	
2-Hexanone	ug/L	100	103	103	70-137	
4-Chlorotoluene	ug/L	50	48.9	98	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	103	103	70-134	
Acetone	ug/L	100	102	102	68-160	
Benzene	ug/L	50	53.8	108	70-130	
Bromobenzene	ug/L	50	47.7	95	70-130	
Bromochloromethane	ug/L	50	51.2	102	70-135	
Bromodichloromethane	ug/L	50	53.8	108	70-130	
Bromoform	ug/L	50	51.8	104	70-130	
Bromomethane	ug/L	50	36.4	73	63-130	
Carbon tetrachloride	ug/L	50	53.8	108	70-146	
Chlorobenzene	ug/L	50	51.0	102	70-130	
Chloroethane	ug/L	50	29.3	59	60-151	L0
Chloroform	ug/L	50	51.6	103	70-130	
Chloromethane	ug/L	50	37.7	75	65-133	
cis-1,2-Dichloroethene	ug/L	50	48.7	97	70-134	
cis-1,3-Dichloropropene	ug/L	50	52.0	104	70-130	
Dibromochloromethane	ug/L	50	52.6	105	70-130	
Dibromomethane	ug/L	50	55.4	111	70-130	
Dichlorodifluoromethane	ug/L	50	41.4	83	66-130	
Diisopropyl ether	ug/L	50	50.7	101	70-133	
Ethylbenzene	ug/L	50	49.6	99	70-130	
Hexachloro-1,3-butadiene	ug/L	50	38.1	76	58-151	
Isopropylbenzene (Cumene)	ug/L	50	50.5	101	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	53.7	107	70-136	
Methylene Chloride	ug/L	50	48.1	96	70-130	
n-Butylbenzene	ug/L	50	45.1	90	70-130	
n-Propylbenzene	ug/L	50	50.0	100	70-130	
Naphthalene	ug/L	50	42.2	84	70-139	
o-Xylene	ug/L	50	51.8	104	70-130	
p-Isopropyltoluene	ug/L	50	47.9	96	70-130	
sec-Butylbenzene	ug/L	50	48.0	96	70-130	
Styrene	ug/L	50	53.3	107	70-130	

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QUALITY CONTROL DATA

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

LABORATORY CONTROL SAMPLE: 1142958

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Alcohol	ug/L	500	609	122	69-151	
tert-Butylbenzene	ug/L	50	48.7	97	70-130	
Tetrachloroethene	ug/L	50	51.0	102	70-130	
Toluene	ug/L	50	52.0	104	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.0	96	70-130	
trans-1,3-Dichloropropene	ug/L	50	51.3	103	70-130	
Trichloroethene	ug/L	50	50.9	102	70-130	
Trichlorofluoromethane	ug/L	50	43.6	87	70-130	
Vinyl acetate	ug/L	100	103	103	67-148	
Vinyl chloride	ug/L	50	45.2	90	67-133	
1,2-Dichloroethane-d4 (S)	%			86	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1143589 1143590

Parameter	Units	92190593006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1-Dichloroethene	ug/L	ND	50	50	43.0	43.2	86	86	65-160	0	
Benzene	ug/L	ND	50	50	49.4	49.9	99	100	58-162	1	
Chlorobenzene	ug/L	ND	50	50	50.3	50.5	100	101	70-138	0	
Toluene	ug/L	ND	50	50	47.1	47.0	94	94	65-152	0	
Trichloroethene	ug/L	ND	50	50	51.2	51.3	102	103	70-142	0	
1,2-Dichloroethane-d4 (S)	%						99	99	70-130		
4-Bromofluorobenzene (S)	%						97	98	70-130		
Toluene-d8 (S)	%						95	97	70-130		

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QUALITY CONTROL DATA

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

QC Batch: WETA/18147 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 92190593001, 92190593002, 92190593003, 92190593004, 92190593005, 92190593006, 92190593007, 92190593008

METHOD BLANK: 1143754 Matrix: Water
Associated Lab Samples: 92190593001, 92190593002, 92190593003, 92190593004, 92190593005, 92190593006, 92190593007, 92190593008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	02/24/14 14:37	

LABORATORY CONTROL SAMPLE: 1143755

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	5	5.3	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1143756 1143757

Parameter	Units	92190512003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrogen, Ammonia	mg/L	11.9	5	5	17.4	17.6	108	113	90-110	1	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1143758 1143759

Parameter	Units	92190609001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrogen, Ammonia	mg/L	0.16	5	5	5.7	5.7	110	112	90-110	1	M1

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QUALITY CONTROL DATA

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

QC Batch: WETA/18161 — Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 — Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 92190593001, 92190593002, 92190593003, 92190593004, 92190593005, 92190593006, 92190593007, 92190593008

METHOD BLANK: 1144494 — Matrix: Water
Associated Lab Samples: 92190593001, 92190593002, 92190593003, 92190593004, 92190593005, 92190593006, 92190593007, 92190593008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	02/25/14 14:13	

LABORATORY CONTROL SAMPLE: 1144495

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.7	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1144496 — 1144497

Parameter	Units	92190711003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.089	2.5	2.5	2.4	2.4	94	94	75-125	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1144498 — 1144499

Parameter	Units	92190711004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.17	2.5	2.5	2.5	2.5	94	94	75-125	0	

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QUALITY CONTROL DATA

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

QC Batch: WETA/18164 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 92190593001, 92190593002, 92190593003, 92190593004, 92190593005, 92190593006, 92190593007, 92190593008

METHOD BLANK: 1144870 Matrix: Water
Associated Lab Samples: 92190593001, 92190593002, 92190593003, 92190593004, 92190593005, 92190593006, 92190593007, 92190593008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	02/25/14 17:50	

LABORATORY CONTROL SAMPLE: 1144871

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	20	19.1	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1144872 1144873

Parameter	Units	92189883004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	941	20	20	928	934	-66	-36	75-125	1	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1144874 1144875

Parameter	Units	92190489009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	24.4	20	20	47.9	47.8	118	117	75-125	0	

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QUALITY CONTROL DATA

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

QC Batch: WETA/18155 — Analysis Method: SM 5220D
QC Batch Method: SM 5220D — Analysis Description: 5220D COD
Associated Lab Samples: 92190593001, 92190593002, 92190593003, 92190593004, 92190593005, 92190593006, 92190593007, 92190593008

METHOD BLANK: 1144254 — Matrix: Water
Associated Lab Samples: 92190593001, 92190593002, 92190593003, 92190593004, 92190593005, 92190593006, 92190593007, 92190593008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	25.0	02/26/14 14:00	

LABORATORY CONTROL SAMPLE: 1144255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	750	775	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1144256 — 1144257

Parameter	Units	92190711003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chemical Oxygen Demand	mg/L	52.0	750	750	853	848	107	106	75-125	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1144258 — 1144259

Parameter	Units	92190489009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chemical Oxygen Demand	mg/L	62.0	750	750	797	809	98	100	75-125	1	

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

QC Batch: WETA/18153 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 92190593001, 92190593002, 92190593003, 92190593004, 92190593005, 92190593006, 92190593007, 92190593008

METHOD BLANK: 1143884 Matrix: Water
Associated Lab Samples: 92190593001, 92190593002, 92190593003, 92190593004, 92190593005, 92190593006, 92190593007, 92190593008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	02/26/14 17:57	

LABORATORY CONTROL SAMPLE: 1143885

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	25	25.8	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1143886 1143887

Parameter	Units	92190593001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Total Organic Carbon	mg/L	29.4	25	25	39.5	38.8	40	37	75-125	2	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1143888 1143889

Parameter	Units	92190652003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Total Organic Carbon	mg/L	6.4	25	25	28.0	27.1	86	83	75-125	3	

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QUALIFIERS

Project: 12830 SOCCER COMPLEX
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DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 12830 SOCCER COMPLEX
Pace Project No.: 92190593

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92190593001	**GW-1**	EPA 3010	MPRP/15294	EPA 6010	ICP/13874
92190593002	**GW-2**	EPA 3010	MPRP/15294	EPA 6010	ICP/13874
92190593003	**GW-3**	EPA 3010	MPRP/15294	EPA 6010	ICP/13874
92190593004	**GW-4**	EPA 3010	MPRP/15294	EPA 6010	ICP/13874
92190593005	**W-1**	EPA 3010	MPRP/15294	EPA 6010	ICP/13874
92190593006	**W-3**	EPA 3010	MPRP/15294	EPA 6010	ICP/13874
92190593007	**W-5**	EPA 3010	MPRP/15294	EPA 6010	ICP/13874
92190593008	**DUPLICATE**	EPA 3010	MPRP/15294	EPA 6010	ICP/13874
92190593001	**GW-1**	EPA 7470	MERP/6212	EPA 7470	MERC/5994
92190593002	**GW-2**	EPA 7470	MERP/6212	EPA 7470	MERC/5994
92190593003	**GW-3**	EPA 7470	MERP/6212	EPA 7470	MERC/5994
92190593004	**GW-4**	EPA 7470	MERP/6212	EPA 7470	MERC/5994
92190593005	**W-1**	EPA 7470	MERP/6212	EPA 7470	MERC/5994
92190593006	**W-3**	EPA 7470	MERP/6212	EPA 7470	MERC/5994
92190593007	**W-5**	EPA 7470	MERP/6212	EPA 7470	MERC/5994
92190593008	**DUPLICATE**	EPA 7470	MERP/6212	EPA 7470	MERC/5994
92190593001	**GW-1**	EPA 8260	MSV/25866		
92190593002	**GW-2**	EPA 8260	MSV/25866		
92190593003	**GW-3**	EPA 8260	MSV/25866		
92190593004	**GW-4**	EPA 8260	MSV/25866		
92190593005	**W-1**	EPA 8260	MSV/25866		
92190593006	**W-3**	EPA 8260	MSV/25866		
92190593007	**W-5**	EPA 8260	MSV/25866		
92190593008	**DUPLICATE**	EPA 8260	MSV/25866		
92190593001	**GW-1**	EPA 350.1	WETA/18147		
92190593002	**GW-2**	EPA 350.1	WETA/18147		
92190593003	**GW-3**	EPA 350.1	WETA/18147		
92190593004	**GW-4**	EPA 350.1	WETA/18147		
92190593005	**W-1**	EPA 350.1	WETA/18147		
92190593006	**W-3**	EPA 350.1	WETA/18147		
92190593007	**W-5**	EPA 350.1	WETA/18147		
92190593008	**DUPLICATE**	EPA 350.1	WETA/18147		
92190593001	**GW-1**	EPA 353.2	WETA/18161		
92190593002	**GW-2**	EPA 353.2	WETA/18161		
92190593003	**GW-3**	EPA 353.2	WETA/18161		
92190593004	**GW-4**	EPA 353.2	WETA/18161		
92190593005	**W-1**	EPA 353.2	WETA/18161		
92190593006	**W-3**	EPA 353.2	WETA/18161		
92190593007	**W-5**	EPA 353.2	WETA/18161		
92190593008	**DUPLICATE**	EPA 353.2	WETA/18161		
92190593001	**GW-1**	SM 4500-Cl-E	WETA/18164		
92190593002	**GW-2**	SM 4500-Cl-E	WETA/18164		
92190593003	**GW-3**	SM 4500-Cl-E	WETA/18164		
92190593004	**GW-4**	SM 4500-Cl-E	WETA/18164		
92190593005	**W-1**	SM 4500-Cl-E	WETA/18164		
92190593006	**W-3**	SM 4500-Cl-E	WETA/18164		

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Project: 12830 SOCCER COMPLEX
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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92190593007	**W-5**	SM 4500-Cl-E	WETA/18164		
92190593008	**DUPLICATE**	SM 4500-Cl-E	WETA/18164		
92190593001	**GW-1**	SM 5220D	WETA/18155		
92190593002	**GW-2**	SM 5220D	WETA/18155		
92190593003	**GW-3**	SM 5220D	WETA/18155		
92190593004	**GW-4**	SM 5220D	WETA/18155		
92190593005	**W-1**	SM 5220D	WETA/18155		
92190593006	**W-3**	SM 5220D	WETA/18155		
92190593007	**W-5**	SM 5220D	WETA/18155		
92190593008	**DUPLICATE**	SM 5220D	WETA/18155		
92190593001	**GW-1**	SM 5310B	WETA/18153		
92190593002	**GW-2**	SM 5310B	WETA/18153		
92190593003	**GW-3**	SM 5310B	WETA/18153		
92190593004	**GW-4**	SM 5310B	WETA/18153		
92190593005	**W-1**	SM 5310B	WETA/18153		
92190593006	**W-3**	SM 5310B	WETA/18153		
92190593007	**W-5**	SM 5310B	WETA/18153		
92190593008	**DUPLICATE**	SM 5310B	WETA/18153		

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Pace Analytical	Document Name: Sample Condition Upon Receipt (SCUR)	Page 1 of 2
	Document Number: F-CHR-CS-03-rev.13	Issuing Authority: Pace Huntersville Quality Office

Client Name: ECS

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1102 T1301 Type of Ice: Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor T1102: No Correction T1301: No Correction

Corrected Cooler Temp.: 4.1 °C Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Optional
Proj. Due Date:
Proj. Name:

Date and Initials of person examining contents: AD 02/21/14

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time: AD 2/21	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☐Yes ☑No ☐N/A	8. Nitrate/Nitrite, Cd 013/7470, Ammonia, COD, chloride recieved in Asheville
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: AD 2/21	☑Yes ☐No ☐N/A	12. All bottles seg recieved in February
-Includes date/time/ID/Analysis Matrix:_____		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	AMB	Date:	2-21-14
SRF Review:	AMB	Date:	2-21-14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92190593

92190593

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

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Section A Required Client Information:

Company: ECS
Address: WILMINGTON NC
Email To: AMY CONCHAS
Phone: Fax:
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: Amy Conchas
Copy To:
Purchase Order No.:
Project Name: Soller Complex
Project Number: 12830G

Section C Invoice Information:

Attention: Amy Conchas
Company Name: ECS
Address: WILMINGTON NC
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other H7 Poly	Analysis Test 8260 **	6010B/7470	NITRATE/NITRITE	AMMONIA	COD	CHLORIDE	TOC **	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GW-1	WT	G			1-18	~~1630~~ 1630		11		X	X	X				X	3	1	1	1	1	1	3		92190593 001
2	GW-2	WT	G			1-18	1730																			** sent to Pace-Asheville 002
3																										
4	GW-3	WT	G			1-19	900																			003
5	GW-4						1070																			004
6	W-1						1130																			** sent to Pace-Huntersville 005 006 007
7	W-3						1230																			
8	W-5						1330																			
9																										
10	Duplicate *																									008
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Brooks Wall	2-20	1200	L. McLennan	2/20	420				
				[illegible]	2/20/14	9:35	4.1	Y	N	Y

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Brooks Wall

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 2/20/2014

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.