
City of Naples
Semi-annual and Quarterly Stormwater Infrastructure Monitoring
Final Report

Prepared for:
City of Naples
Department of Streets and Stormwater

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List of acronyms and abbreviations

AMEC	AMEC Environment & Infrastructure, Inc.
BMPs	Best Management Practices
CFU	Colony Forming Units
City	City of Naples
DO	dissolved oxygen
FDEP	Florida Department of Environmental Protection
mg/L	milligrams per liter
mL	milliliter
MPN	Most Probably Number
ng/L	nanograms per liter
Q1	Quarter 1
SOPs	Standard Operating Procedures
TKN	Total Kjeldahl nitrogen
TMDL	Total Maximum Daily Load
TN	total nitrogen
TP	total phosphorus
TSS	total suspended solids
µg/L	micrograms per liter
USDA	US Department of Agriculture
WBID	Water Body Identification

Glossary of Chemical Analysis Data Qualifiers Appearing in this Report

U and ND – These qualifiers have the same meaning, but different laboratories use different codes in conformance with their specific Quality Assurance procedures. Indicates that the compound was analyzed for but not detected. For example, if a chemical analysis result is shown as 0.10 U, 0.10 is the method detection limit. Therefore, “0.10 U” has an equivalent meaning as < 0.10. The chemical was not detected, and if the concentration were greater than 0.10, it could be detected.

I or J - These qualifiers have the same meaning, but different laboratories use different codes in conformance with their specific Quality Assurance procedures. Indicates the reported value is between the laboratory method of detection limit and the laboratory practical quantitation limit. Although the laboratory is confident the chemical is present in the sample, it is below the laboratory's practical quantitation limit, and therefore the concentration reported is less reliable.

B – used for bacterial counts. It is desirable that the number of colonies counted during the test is within 20 to 60 colonies per membrane. Counting the number of colonies is more reliable within the specified range – if too many it is hard to distinguish colonies; if too few, statistical uncertainty is higher. The laboratory may dilute samples to achieve the desired range, but it is not always possible to estimate the appropriate dilution prior to preparation of samples. The laboratory may rely on past results from the same facility/sample location to estimate the appropriate dilution.

V – The analyte was detected in a laboratory blank sample. This may indicate contamination within the laboratory. Where the V qualifier is reported, AMEC has reviewed the concentration of contamination reported in the laboratory blank and compared that with the concentration in the environmental samples. If the level in the blank is approximately equal to or greater than the concentration in the samples, AMEC overrides the laboratory's report by indicating the contaminant was not detected, annotating a higher detection limit in affected sample batches. If the level in the blank is much lower than the concentration in the environmental samples, the result is accepted and used as valid. For any data reported with a V qualifier under this contract, AMEC determined that the contamination level in the laboratory blanks was much lower than in the potentially affected environmental samples, and the reported data are usable.

Table of Common Names of Lakes compared with Lake Numbers

Lake #	Lake Name
1	Devils Lake
2	Swan Lake
3	Colonnade Lake
4	Hidden Lake
5	Lake Suzanne
6	Mandarin Lake
7	Naples Beach Club/Yucca Lake
8	North Lake
9	South Lake
10	Alligator Lake
11	Spring Lake
31	East Lake
12	Lake btw 14th & 15th Ave S
13	Lake btw 17th & 18th Ave S
14	Lantern Lake
15	Sun Lake Terrace
16	Thurner Lake
17	County Lake
18	
19	15th Ave N Lake (WTP Lake)
20	Forest Lake
21	Willow Lake
22	Lake Manor
23	Lowdermilk Lake
24	Half Moon Lake
25	Lake btw 16th & 17th Ave S
26	NCH Lake

1.0 Introduction

The City of Naples (City) has contracted AMEC Environment & Infrastructure, Inc. (AMEC) to conduct regular water quality monitoring of the City's stormwater lakes and conveyances. This report presents the results of stormwater and lakes monitoring conducted by AMEC during 2012, as well as an update to the prioritization strategy and remediation recommendations provided in the previous report submitted to the City (AMEC, 2012). Sampling conducted as part of this project and discussed in this report include the biannual lakes monitoring and source tracking efforts conducted in April and September of 2012, as well as the quarterly pump station monitoring conducted in April, July, September and December of 2012. The results of this continued monitoring have been used to fill data gaps identified by the previous report (AMEC, 2012) and to develop recommendations for structural and non-structural Best Management Practices (BMPs) that may be used by the City to improve the water quality of its stormwater lakes and the receiving waters of the state.

1.1 Work Efforts Performed by AMEC

1.1.1 Quarter 1 Monitoring

From April 4, 2012 through April 6, 2012, AMEC, under the City's direction, conducted stormwater sampling in major stormwater conveyances associated with selected City stormwater lakes and infrastructure. Sampling locations were determined based on past sampling efforts and findings (see AMEC, 2012 for additional discussion of historic water quality and sampling efforts). Grab samples were collected from storm sewers, selected stormwater lakes, and pump stations. Sampling was performed in accordance with Florida Department of Environmental Protection (FDEP) Standard Operating Procedures (SOPs) FQ 1000 (Quality Control), FS 2100 (Surface Water Sampling) and FT 1000 (Field Testing General), and was conducted using methods and locations consistent with prior sampling conducted by MACTEC Engineering & Consulting, Inc. (now AMEC) for the City in 2009, 2010 and 2011.

During the April 2012 sampling event, 0.04 inches of rainfall occurred on the evening of April 5, while 0.72 inches of rainfall occurred during the middle of the day on April 6. Prior to the April 2012 sampling event, the most recent significant (greater than 0.10 inches) rainfall event occurred on March 16, 2012, at 0.85 inches. For analysis purposes, it can be assumed that antecedent conditions for all sampling locations except 4th Ave. Alley occurred following a span of relatively dry conditions, which also coincided with the end of the local dry season. Sample location 4th Ave. Alley was sampled during the storm event on April 6, as it was a unique opportunity to obtain "1st flush" characteristics of the flow coming from the commercial area along 5th Ave. The results of this sample location are discussed further in Section 2.3.4.

1.1.2 Quarter 2 Monitoring

On July 5, 2012, AMEC collected water samples from the three pump stations located throughout the City. Sampling procedures were as described in Section 1.1.1.

Prior to the July 2012 sampling event, 0.50 inches of rainfall occurred on July 4, 2012. For analysis purposes, it can be assumed that antecedent moisture conditions were representative of the South Florida wet season, in which rainfall events generally occur more than once per week and do not allow significant "first flush" characteristics to build up within the watershed as compared to dry season events.

1.1.3 Quarter 3 Monitoring

From September 25, 2012 through September 27, 2012, AMEC, under the City's direction, conducted stormwater sampling in major stormwater conveyances associated with selected City stormwater lakes and infrastructure. Sampling locations were similar to Quarter 1 locations, with the exception of the source tracking locations. Grab samples were collected from storm sewers, selected stormwater lakes, and pump stations. Sampling procedures were as described in Section 1.1.1.

During the September 2012 sampling event, .07 inches of rainfall occurred on the evening of September 25, while the remaining sampling days received no rainfall. Prior to the September 2012 sampling event, rainfall events were fairly consistent, with few dry periods that lasted more than 72 hours. For analysis purposes, it can be assumed that antecedent conditions followed a span of wet conditions, representative of the end of the local wet season.

1.1.4 Quarter 4 Monitoring

On December 6, 2012, AMEC collected water samples from the three pump stations located throughout the City as well as at the discharge point of the water treatment plant's reclaimed water distribution system. Sampling procedures were as described in Section 1.1.1.

Prior to the December 2012 sampling event, 0.11 inches of rainfall occurred on November 6, 2012. For analysis purposes, it can be assumed that antecedent moisture conditions were representative of the South Florida dry season.

1.2 Current and Recent City Action

Over the past several years, the City has taken several approaches aimed at addressing some of the water quality issues affecting their stormwater. Included here is a brief synopsis of some of the meaningful action items the City has implemented.

Aerators

Aerators are designed to promote increased circulation and oxygenation to the entire water column, allowing the natural processes responsible for nutrient and pollutant sequestration to occur more efficiently and to reduce the chance of the bottom sediments becoming anoxic, which generally results in nutrient solubilization and release. They can be an effective first step in the overall remediation of a stormwater treatment pond, and should be used concurrently with steps to reduce overall external loading to the system. To date, the City has installed aerators in 9 of its stormwater lakes, of which 1 was installed in the 2012 fiscal year (FY).

Floating Islands

Floating Islands are a low cost way of providing additional treatment capacity within an existing stormwater treatment body or restoring the condition of a eutrophied lake or pond. With regular maintenance (harvesting) and coverage of just 5% of the targeted waterbody, FDEP is currently crediting floating islands with 20% removal of total nitrogen and total phosphorus. The City currently has a total of 13 floating islands installed in 6 of its stormwater lakes. The first of these was installed in July 2009, and the program has been growing, with seven installed in FY 2012.

Roadside Stormwater Swales

Roadside stormwater swales are an effective way of increasing filtration and infiltration of the stormwater runoff generated on roads and sidewalks, and typically do not require large amounts of space. From 2010 to present, the City has restored or installed approximately 2.5 miles of swales.

Several of these projects have been installed so recently that AMEC has not collected enough post-installation water quality data to evaluate their benefits.

2.0 Background Information

2.1 Impaired Waters

One of the primary reasons for performing a water quality evaluation for the City's stormwater is there are multiple downstream waterbodies that are currently impaired for various pollutants. The Gordon River Extension [Water Body Identification (WBID) 3278K] and Naples Bay Coastal (WBID 3278R) are impaired according to the Everglades West Coast Group 1 Basin/ South District verified list published by FDEP in May of 2009. Naples Bay is impaired for copper, fecal coliform, dissolved oxygen (DO), and iron. The Gordon River Extension is impaired for DO, and causative pollutants are identified as total nitrogen (TN) and total phosphorus (TP). The concentration causing impairment for copper is ≥ 3.7 micrograms per liter ($\mu\text{g/L}$) fecal coliform is > 43 colony forming units (CFU)/100 milliliters (mL), iron is > 0.3 milligrams per liter (mg/L), and DO is < 4.0 mg/L. Of these parameters, all but fecal coliform (Low Priority) were identified as Medium Priority for Total Maximum Daily Load (TMDL) Development (EWC, 2009).

Although the causative pollutants for impairment are not quantitatively described for either the Gordon River or Naples Bay, a point of reference may be helpful in using the reference concentration used for the Gordon River TMDL, which identifies TN as 0.74 mg/L and TP as 0.04 mg/L.

2.2 Unique Element of 2012 Monitoring – Caffeine Added as Indicator of Human Wastes

A unique aspect of the current monitoring effort includes the analysis of caffeine in selected samples, which has been chosen by AMEC and the City to be used as an indication of anthropogenically derived bacterial sources. Because caffeine is a relatively ubiquitous substance in human waste streams and is often found in concentrations that can be easily detected given current analytical methods, it can be used in source tracking efforts where anthropogenic bacterial contamination is suspected. Caffeine concentrations that have been observed in sanitary effluents, stormwater, and surface waters are summarized in Table 2. Although concentrations range widely, most observations of sanitary effluent exceed 1,000 nanograms per liter (ng/L), while effective treatment systems in the US (Oppenheimer, *et al.*, 2011) generally reduce average caffeine levels in treated sanitary effluents to 127 ng/L; surface water bodies with little or no anthropogenic input are likely to have concentrations less than 50 ng/L. Stormwater was characterized by Sankararamakrishnan and Guo (2005) who found very high concentrations in one stormwater sample from Asbury Park, NJ, a location with a very old sanitary sewer system, but more typical values observed were from 200 to 500 ng/L.

Table 2-1. Summary of Caffeine Concentrations Observed in Surface Waters and Effluents

Reference	Sample Type	Caffeine (ng/L)
Buerge, <i>et al.</i> (2003)	Untreated effluent	7,000-73,000
	Treated effluent	30-9,300
	Lakes and rivers	60-250
	Mountain lakes	< 2
Glassmeyer, <i>et al.</i> (2005)	rivers	40-2,600
	Treated effluent	53-7,990
Sankararamakrishnan and Guo (2005)	Stormwater	144-44,700
Oppenheimer, <i>et al.</i> (2011)	Treated effluent	127
	Surface water affected by effluent	64
	Surface water no effluent	ND
Kolpin, <i>et al.</i> (2002)	Streams	81-6,000

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3.0 Monitoring Results

Included in this section is a discussion of sampling locations and results. Locations were determined based on previously identified data gaps, as well as areas that, based on past data, may represent potentially elevated pollutant sources. Although the majority of samples taken represent non-storm related base flow conditions, the results of these sampling efforts provide useful information that allow for the characterization of long-term water quality and stormwater lake condition. Ultimately, the results will be used to identify those areas that will benefit most from targeted structural and non-structural BMPs.

3.1 Pump Station Monitoring Results

As a quarterly effort, each of the City’s 3 main pump stations have been sampled for TN, TP, total suspended solids (TSS), copper, fecal coliform, and enterococcus as a continued monitoring effort of three locations that represent significant dry and wet weather hydrologic and nutrient loading to downstream impaired waters. Caffeine has been used selectively at these locations where source identification is desired. Table 3-1 shows the results from the current year monitoring efforts at each of the three pump stations. Sample locations are given in Figures 3-1 through 3-4, which shows all sample locations by drainage basin. PW-Pump is also commonly referred to as the Public Works Pump, 11-Pump as Cove Pump, and 14-Pump as Lantern Lane Pump.

Table 3-1. 2012 Quarterly Pump Station Monitoring

Sample ID	TKN	NOx	TN	TP	TSS	Cu	FC	Ent.	Caff.*	
Units	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(µg/L)	(cfu/100 mL)	(MPN)	(ng/L)	
PW-Pump	Q1	1.1	0.22 I	1.3	0.069	2.8	2.0	3400	870	14 I
	Q2	0.92	0.27	1.2	0.080	7.6	8.2 V	1980 B	500	
	Q3	0.83	0.26 I	1.1	0.088	4.8	38	4200	516	
	Q4	1.1	0.30	1.4	0.099	1.2	1.3 I	5200	437	
11-Pump	Q1	1.2	0.41 I	1.6	0.12	3.6	1.7 I V	9910 B	1730	150
	Q2	1.3	0.22	1.5	0.14	4.0	2.9	112000 B	200	630
	Q3	1.3	0.46 I	1.8	0.60	5.2	3.2	4700	127	260 ND
	Q4	1.4	0.41	1.8	0.13	2.8	1.1 I	450 B	501	50 U
14-Pump	Q1	0.88	0.18 I	1.1	0.83	4.8	2.9 V	4000	300	32 I
	Q2	0.86	.047 I	0.91	0.15	54	45 V	1350 B	1200	
	Q3	1.1 J3	0.10 U	1.1	0.16	74	3.6	220	333	
	Q4	1.6	0.32	1.9	0.40	4.0	2.2	360 B	550	

U - Indicates that the compound was analyzed for but not detected
 B - Results based upon colony counts outside the acceptable range
 I - Indicates the reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
 * Caffeine not analyzed in all samples

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3.2 Semi-annual Sampling Locations

A significant portion of the 2012 monitoring efforts include continued monitoring of 18 stormwater lakes. Locations were identified by AMEC and the City based on the findings of AMEC (2012) addressing areas with relatively high pollutant loading, poorly functioning stormwater lakes, and/or data gaps. Results from these locations will be used to substantiate future structural and non-structural BMPs targeted at treatment of stormwater lake quality. Table 3-2 shows the results from the current year efforts of each monitored lake, while Figures 3-1 through 3-4 show sample locations by major drainage basin. A photo log of 2012 sample locations is also given in Appendix C.

Table 3-2. 2012 Biannual Lakes Condition Assessment

Sample ID		TKN	NOx	TN	TP	TSS	Cu	FC	Ent.	Caf.*
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(µg/L)	(cfu/100 mL)	(MPN)	(ng/L)
1NW	Q1	0.96	0.10 U	0.96	0.028	1.0 U	9.8	100 U	3	
1SE	Q3	0.75	0.10 U	0.75	0.076	24	17	231 B	100	
2B	Q1	1.2	0.10 U	1.2	0.10	8.8	12	180 B	461	
	Q3	0.85	0.10 U	0.85	0.045	6.4	6.2	1840 B	961	
3B	Q1	1.1	0.10 U	1.1	0.11	4.8	5.6	1440 B	140	
	Q3	1.0	0.10 U	1.0	0.13	5.2	2.8	259 B	47	
5B	Q1	5.3	0.10 U	5.3	0.42	17	10	270 B	84	
	Q3	0.89	0.10 U	0.89	0.12	4.8	3.0	310	7	
6B	Q1	0.83	0.10 U	0.83	0.048	2.4	0.63 I	100 U	9	
	Q3	1.2	0.10 U	1.2	0.13	11	0.46 I	5200	101	
7B	Q1	3.7	0.10 U	3.7	0.17	18	6.0	100 U	118	
	Q3	1.6	0.10 U	1.6	0.084 J3	24	20	15 B	27	
8B	Q1	1.3	0.10 U	1.3	0.060	6.8	4.9	100 U	270	
	Q3	1.4	0.10 U	1.4	0.077	9.2	1.7 I	162 B	51	
9B	Q1	1.3	0.10 U	1.3	0.17	6	11	100 U	34	
	Q3	1.1	0.10 U	1.1	0.047	16.0	3.1	66	49	
10B	Q1	1.6	0.10 U	1.6	0.095	9.6	1.9 I	721 B	182	
	Q3	1.1 J3	0.10 U	1.1	0.031	8.0	1.8 I	374 B	186	
11B	Q1	1.2	0.10 U	1.2	0.056	3.6	4.9 V	100 U	93	
	Q3	0.99	0.10 U	0.99	0.11	3.6	3.0	489 B	194	
14B	Q1	0.76	0.10 U	0.76	0.89	7.2	3.4 V	100 U	372	ND 13
	Q3	1.9	0.10 U	1.9	0.22	14	2.3	2 U	142	
15B	Q1	1.2	0.10 U	1.2	0.023	4.4	41	100 U	46	
	Q3	0.89	0.10 U	0.89	0.030	4.80	8.2	230	17	
16B	Q1	0.85	0.10 U	0.85	0.015	1.0 U	1.1 I	90 B	24	
	Q3	0.91	0.10 U	0.91	0.022	3.60	0.28 I	490	39	
19B	Q1	2.2	0.19 I	2.4	0.055	4.4	1.2 I	180 B	313	
	Q3	1.20	0.10 U	1.2	0.047	8.4	0.39 I	410	27	
20B	Q1	1.6	0.10 U	1.6	0.062	8.4	0.60 I	100 U	29	
	Q3	1.80	0.10 U	1.8	0.068	13	0.91 I	4000	2420	
21B	Q1	1.1	0.10 U	1.1	0.0044 U	2.0	2.5	360 B	8	
	Q3	0.67	0.10 U	0.67 I	0.022	6.4	1.9 I	492	24	
22B	Q1	0.85	0.10 U	0.85	0.0091 I	1.2	1.1 I	100 U	8	
	Q3	0.85	0.10 U	0.85	0.10	8.8	0.64 I	2340 B	378	
26B	Q1	0.59	0.10 U	0.59 I	0.037	1.6	57	180 B	68	
	Q3	0.76	0.10 U	0.76	0.065	6.0	61 V	890 B	2	

U - Indicates that the compound was analyzed for but not detected

B - Results based upon colony counts outside the acceptable range

I - Indicates the reported value is between the laboratory method of detection limit and the laboratory practical quantitation limit

* Caffeine not analyzed in all samples.

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3.3 Roaming Sampling Locations

Roaming samples, also referred to as source identification samples, are intended to identify possible sources in areas where past sampling have indicated relatively high concentrations of one or more stormwater contaminants of interest. During this year's stormwater characterization program, caffeine has been added as an indicator of the significance of human waste, such as leaking sewers or septic systems. Sucralose, an artificial sweetener, was also analyzed in source identification samples collected in April 2012, but sucralose was not detected in any samples apparently due to interferences affecting the analytical method. Therefore sucralose will not be tested in future sample

events, and the results are not discussed further. Table 3-3 shows the results from current year monitoring efforts at each of the selected roaming locations, while Figures 3-1 through 3-4 show sample locations by major drainage basin. A photo log of 2012 sample locations is also given in Appendix C.

Table 3-3. 2012 Roaming Location Samples

Sample ID		TKN	NOx	TN	TP	TSS	Cu	FC	Ent.	Caf.
Units		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(µg/L)	(cfu/ 100mL)	(MPN)	(ng/L)
1A	Q1	1.1	0.10 U	1.1	0.10	4.4	9.6	180 B	96	
11A	Q1	1.9	0.10 U	1.9	0.11	7.6	3.9 V	1080 B	185	440
22A	Q1	0.70	0.10 U	0.70	0.056	4.4	1.0 I	270 B	69	90
4th Ave. Alley	Q1	1.0	0.14 I	1.1	0.18	36	6.2	2160 B	100 U	550
4th Ave. Garage	Q1	0.31	0.10 U	0.31 I	0.057	1.2	2.9 V	100 U	6	
BC-Pond	Q1	2.5	0.10 U	2.5	0.27	11	6.5 V	100 U	961	
Gordon Dr.	Q1	2.0	1.2	3.2	0.56 J3	12	11 V	43000	500	120
1A3	Q3	0.71	0.10 U	0.71	0.13 J3	2.0	3.3	673 B	152	
22A3	Q3	0.76	0.10 U	0.76	0.12	3.6	0.99 I	2450 B	162	260 ND
4th Ave 3	Q3	1.2	0.10 U	1.2	0.16	2.0	3.2	508	107	260 ND
CP	Q3	1.4	0.27 I	1.7	0.14		1.7 I	2300	2420	260 ND
Gordon Dr. 3	Q3	0.46	0.10 U	0.46 I	0.020	8.8	3.5	84	28	16 I
Reuse 1	Q3	0.63	0.94	1.6	0.34	1.6	1.2 I	2 U	1 U	260 ND
Reuse 2	Q3	0.96	1.2	2.2	0.39	1.6	4.1	2 U	1 U	13 U
Reuse 3	Q4	0.82	0.33	1.2	0.74	1.6	.96 I	100 U	1 U	50 U

U or ND - Indicates that the compound was analyzed for but not detected

B - Results based upon colony counts outside the acceptable range

I or J - Indicates the reported value is between the laboratory method detection limit and the laboratory practical quantitation limit

V - Chemical detected in laboratory blank indicating potential contamination in the laboratory.

The levels observed in the blank were much lower than found in environmental samples.

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3.4 Reclaimed Water

As part of the 2012 sampling program, three samples were allocated to the City reclaimed water distribution system. Due to the increasing use of reclaimed water for residential and commercial irrigation, the City has become interested in managing the resource effectively and responsibly. AMEC collected three samples from the reclaimed water distribution system, including two samples during the Q3 sampling event and one sample during the Q4 sampling event. The two samples collected during the Q3 sampling event, Reuse 1 and Reuse 2, were collected at the water treatment plant (post treatment) and at a discharge point near the farthest southern extent of the distribution system, respectively. Due to an unanticipated laboratory interference with the caffeine result from Reuse 1, it was decided to take a second sample at the same location during the Q4 sampling event in order to obtain a more meaningful result for caffeine, as well as to obtain one more data point for all other parameters. Table 3-4 shows the results from the reclaimed water sample locations, while Figures 3-1 through 3-4 show sample locations by major drainage basin. A photo log of 2012 sample locations is also given in Appendix C.

Table 3-4. 2012 Reclaimed Water Sample Results

Sample ID	TKN	NOx	TN	TP	TSS	Cu	FC	Ent.	Caff.
Units	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(µg/L)	(cfu/100mL)	(MPN)	(ng/L)
Reuse 1 Q3	0.63	0.94	1.6	0.34	1.6	1.2 I	2 U	1 U	260 ND
Reuse 2 Q3	0.96	1.2	2.2	0.39	1.6	4.1	2 U	1 U	13 U
Reuse 3 Q4	0.82	0.33	1.2	0.74	1.6	.96 I	100 U	1 U	50 U

U - Indicates that the compound was analyzed for but not detected
 ND - Not detected at the reporting limit (or MDL if shown)
 I - Indicates the reported value is between the laboratory method detection limit and the laboratory practical quantitation limit

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3.5 Summary of Available Data

One goal of the current year’s contract was to fill in any data gaps identified in past reports for the purpose of developing a comprehensive database of City water quality data. AMEC compiled all available data, which include sampling efforts conducted by the City in 2008 and 2009, sampling efforts conducted by MACTEC in 2009, and sampling efforts conducted by MACTEC/AMEC in 2010 and 2011. Table 3-5 is a summary of said data, organized by major drainage basin. Each value represents the mean of all available (or geometric mean for fecal coliform and *Enterococcus*), with the number of sample points (n) each mean is based on and a description of the type of sample location. Sample locations are provided in Figures 3-1 through 3-4, which correspond to the major drainage basin groupings given in the table. Sample locations provided in Figures 3-1 through 3-4 are also inclusive of sample locations discussed in Sections 3.1 through 3.4.

Table 3-5. Summary of All Available Data (page 1 of 3)

Basin	Sample ID			TN¹	TP	Cu	FC	Ent.	Caff.²
	Sample ID	Type	(n)	mg/L	mg/L	µg/L	cfu/100mL	MPN	ng/L
Gordon River	22A3	Conveyance	1	0.76	0.12	1.0	2450	162	260
	US41	Conveyance	4	1.7	0.33	3.8	727	858	
	15A	Lake - Influent	4	1.3	0.071	8.7	327	665	
	20A	Lake - Influent	4	1.5	0.13	4.2	366	298	
	22A	Lake - Influent	5	0.98	0.078	4.2	1801	300	
	6B	Lake - Effluent	3	1.1	0.069	5.0	1308	15	
	15B	Lake - Effluent	7	1.0	0.023	15	224	46	
	16B	Lake - Effluent	3	1.0	0.024	0.89	561	20	
	17B	Lake - Effluent	1	1.3	0.090	0.30	520	50	
	19B	Lake - Effluent	6	1.2	0.042	1.1	419	183	
	20B	Lake - Effluent	7	1.6	0.083	0.70	481	196	
	21B	Lake - Effluent	3	1.1	0.019	3.4	481	14	
22B	Lake - Effluent	10	0.68	0.065	1.7	428	117		

Table 3-5. Summary of All Available Data (page 2 of 3)

Basin	Sample ID			TN ¹	TP	Cu	FC	Ent.	Caff. ²
	Sample ID	Type	(n)	mg/L	mg/L	µg/L	cfu/100mL	MPN	ng/L
Naples Bay	11A1	Conveyance	1	1.2	0.23	2.3	2000	1990	
	11A2	Conveyance	1	0.90	0.084	2.2	33	461	
	11A3	Conveyance	1	4.5	0.50	25	3600	7330	
	11A4	Conveyance	1	1.0	0.046	2.6	5200	378	
	11B1	Conveyance	1	1.1	0.15	2.3	1190	534	
	11B2	Conveyance	1	8.0	0.94	16	4700	11800	
	11B3	Conveyance	1	4.3	0.47	22	4200	6110	
	11B4	Conveyance	1	0.65	0.13	6.9	60	10	
	11D	Conveyance	4	1.5	0.17	1.4	944	1517	
	14A1	Conveyance	1	3.1	0.71	1.2	2900	2420	
	14A2	Conveyance	1	3.1	0.62	2.0	134	100	
	14A3	Conveyance	1	1.1	0.39	14	1530	4710	
	14A4	Conveyance	1	1.6	0.79	0.38	15200	158	
	14B2	Conveyance	1	2.6	0.98	2.7	1320	2990	
	14B3	Conveyance	1	1.4	0.16	8.7	2000	4820	
	14B4	Conveyance	1	1.8	0.28	0.38	2500	980	
	4th Ave 3	Conveyance	1	1.2	0.16	3.2	508	107	260
	4th Ave. Alley	Conveyance	1	1.1	0.18	6.2	2160	100	550
	4th Ave. Garage	Conveyance	1	0.31	0.057	2.9	100	6	
	CP	Conveyance	1	1.7	0.14	1.7	2300	2420	260
	GD	Conveyance	1	3.2	0.56	11.0	43000	500	120
	PW2	Conveyance	1	2.0	0.058	3.9	5800	3830	
	PW3	Conveyance	1	0.80	0.068	12	2300	1480	
	PW4	Conveyance	1	0.79	0.10	5.6	1200	78	
	11A	Lake - Influent	1	1.9	0.11	3.9	1080	185	440
	11B	Lake - Effluent	13	1.2	0.076	5.8	534	297	
	12B	Lake - Effluent	1	1.7	0.025	0.3	490	50	
	13B	Lake - Effluent	1	1.7	0.056	8.4	3600	130	
	14B	Lake - Effluent	3	1.6	0.51	2.0	40	117	13
	24B	Lake - Effluent	2	3.1	0.97	2.9	3919	46	
	25B	Lake - Effluent	1	1.8	0.069	5.6	2300	13	
	26B	Lake - Effluent	3	0.78	0.38	46	398	22	
	28B	Lake - Effluent	1	1.8	0.13	5.4	5300	110	
GD3	Private Lake	1	0.46	0.020	3.5	84	28	16	
11-Pump	Pump Station	8	1.6	0.20	2.0	3346	507	273	
14-Pump	Pump Station	8	1.5	0.43	8.8	1002	1061	32	
PW-Pump	Pump Station	5	1.3	0.11	12	2629	662	14	

Table 3-5 . Summary of All Available Data (page 3 of 3)

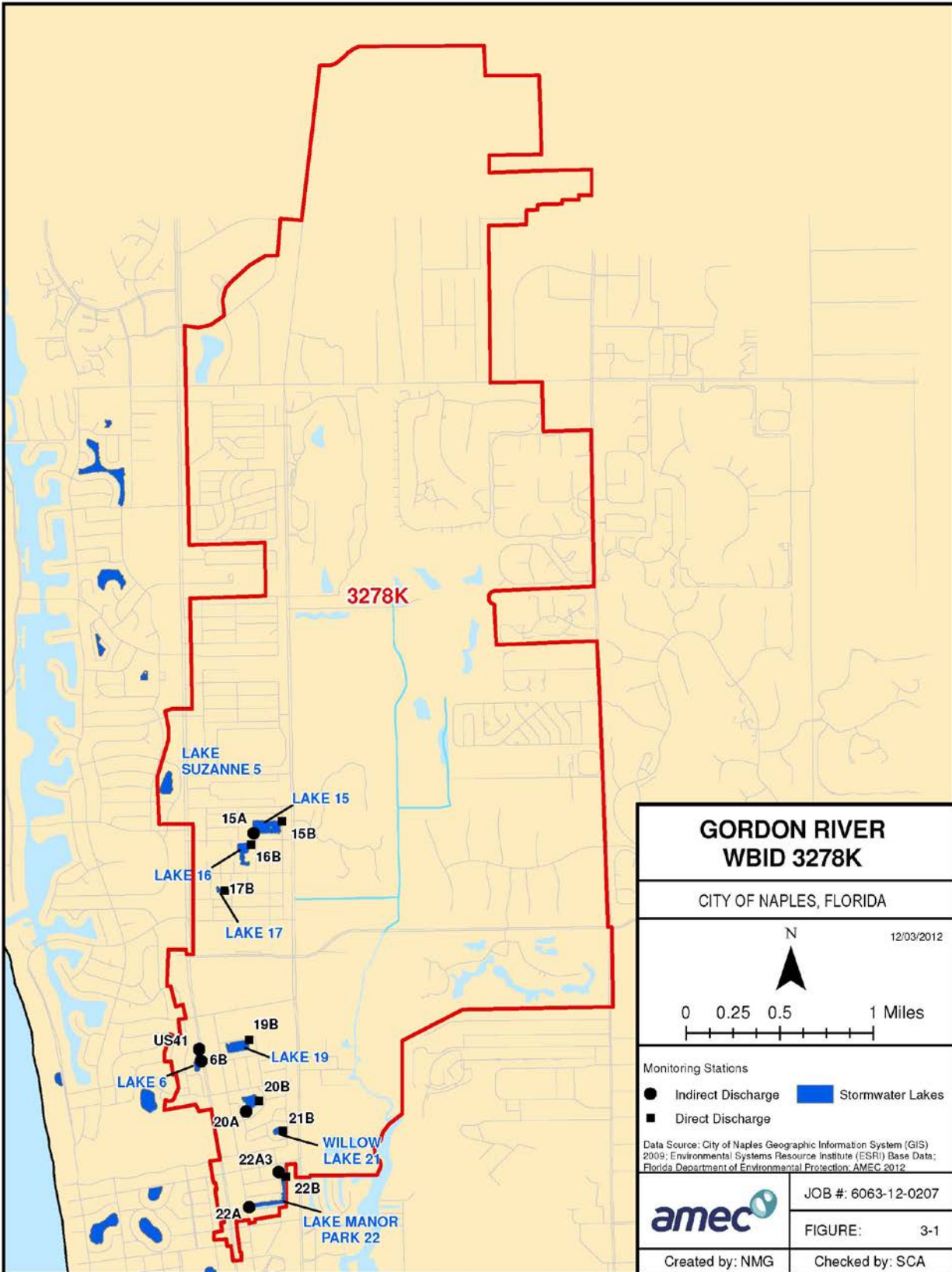
Sample ID				TN¹	TP	Cu	FC	Ent.	Caff.²
Basin	Sample ID	Type	(n)	mg/L	mg/L	µg/L	cfu/100mL	MPN	ng/L
Moorings Bay	1A3	Conveyance	1	0.71	0.13	3.3	673	152	
	1A	Lake - Influent	1	1.1	0.10	9.6	180	96	
	2A	Lake - Influent	4	1.2	0.11	25	414	455	
	5A	Lake - Influent	4	1.1	0.18	6.7	97	52	
	1NW-B	Lake - Effluent	2	0.98	0.026	6.7	120	8	
	1SE-B	Lake - Effluent	2	0.98	0.062	14	152	14	
	2B	Lake - Effluent	7	0.92	0.067	15	298	290	
	3B	Lake - Effluent	3	1.1	0.12	3.7	497	24	
	4B	Lake - Effluent	1	0.95	0.068	2.1	21	8	
	5B	Lake - Effluent	7	1.7	0.16	7.3	193	31	
23B	Lake - Effluent	1	0.70	0.021	3.7	280	23		
Sample ID				TN¹	TP	Cu	FC	Ent.	Caff.²
Basin	Sample ID	Type	(n)	mg/L	mg/L	µg/L	cfu/100mL	MPN	ng/L
Gulf of Mexico	BC	Conveyance	4	3.1	0.26	5.2	791	105	
	BC-Pond	Private Lake	1	2.5	0.27	6.5	100	961	
	8A	Lake - Influent	4	1.3	0.16	1.5	784	144	
	7B	Lake - Effluent	2	2.7	0.13	13	39	56	
	8B	Lake - Effluent	6	1.3	0.10	2.4	112	128	
	9B	Lake - Effluent	3	1.5	0.14	6.4	105	37	
	10B	Lake - Effluent	7	1.0	0.054	2.3	83	202	

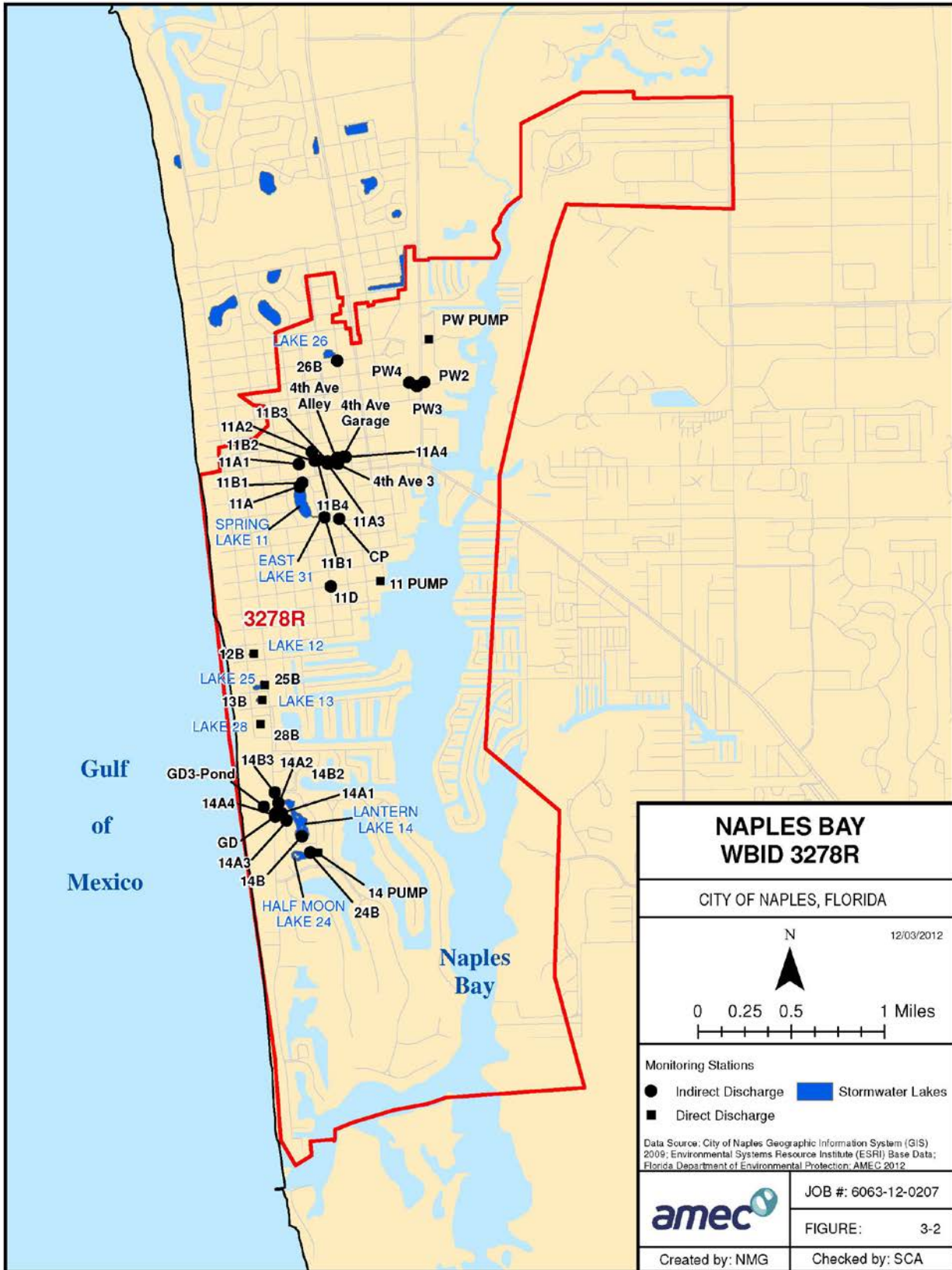
Bold = Direct Discharge

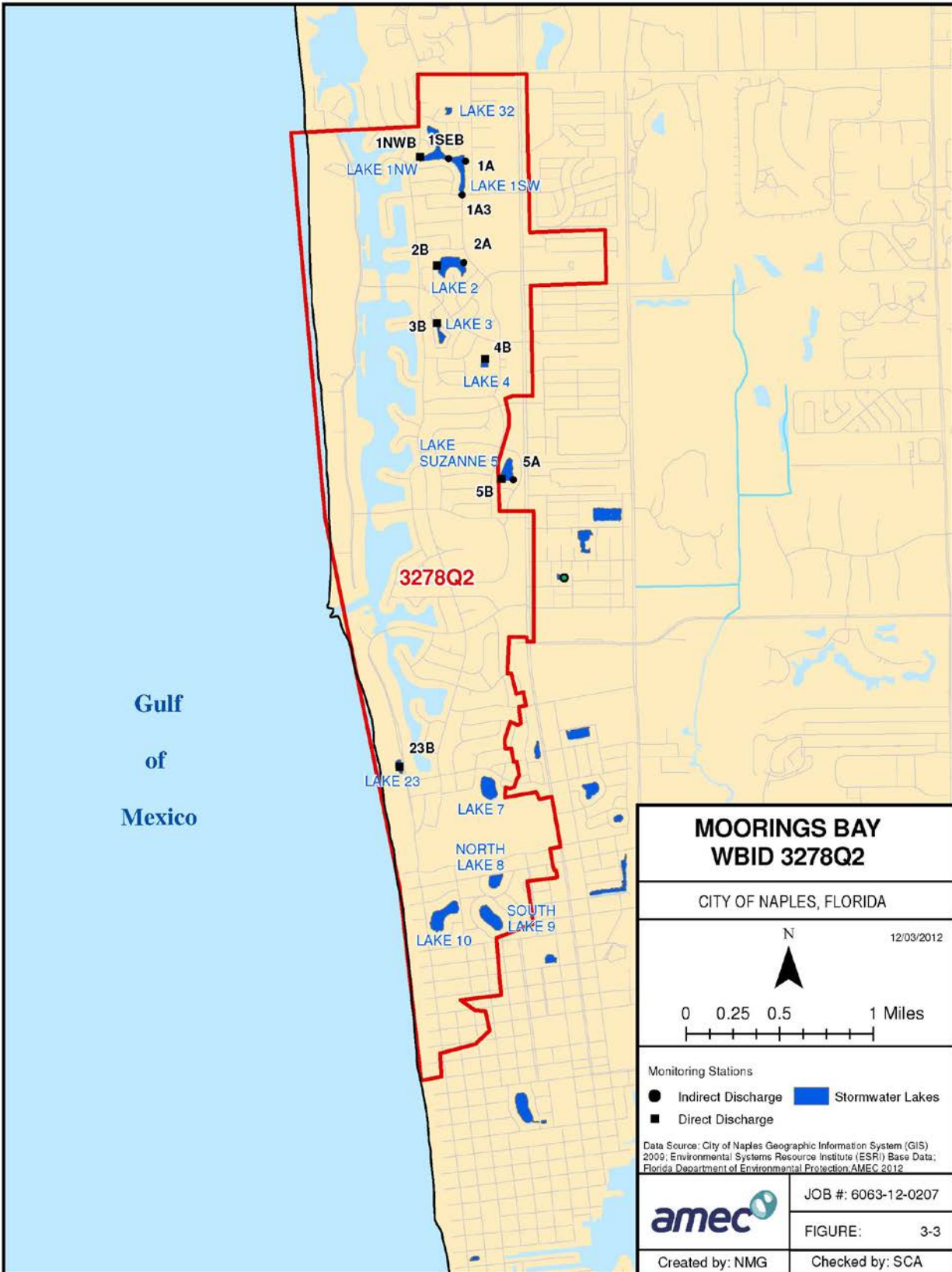
¹Calculated as the sum of NOx and TKN

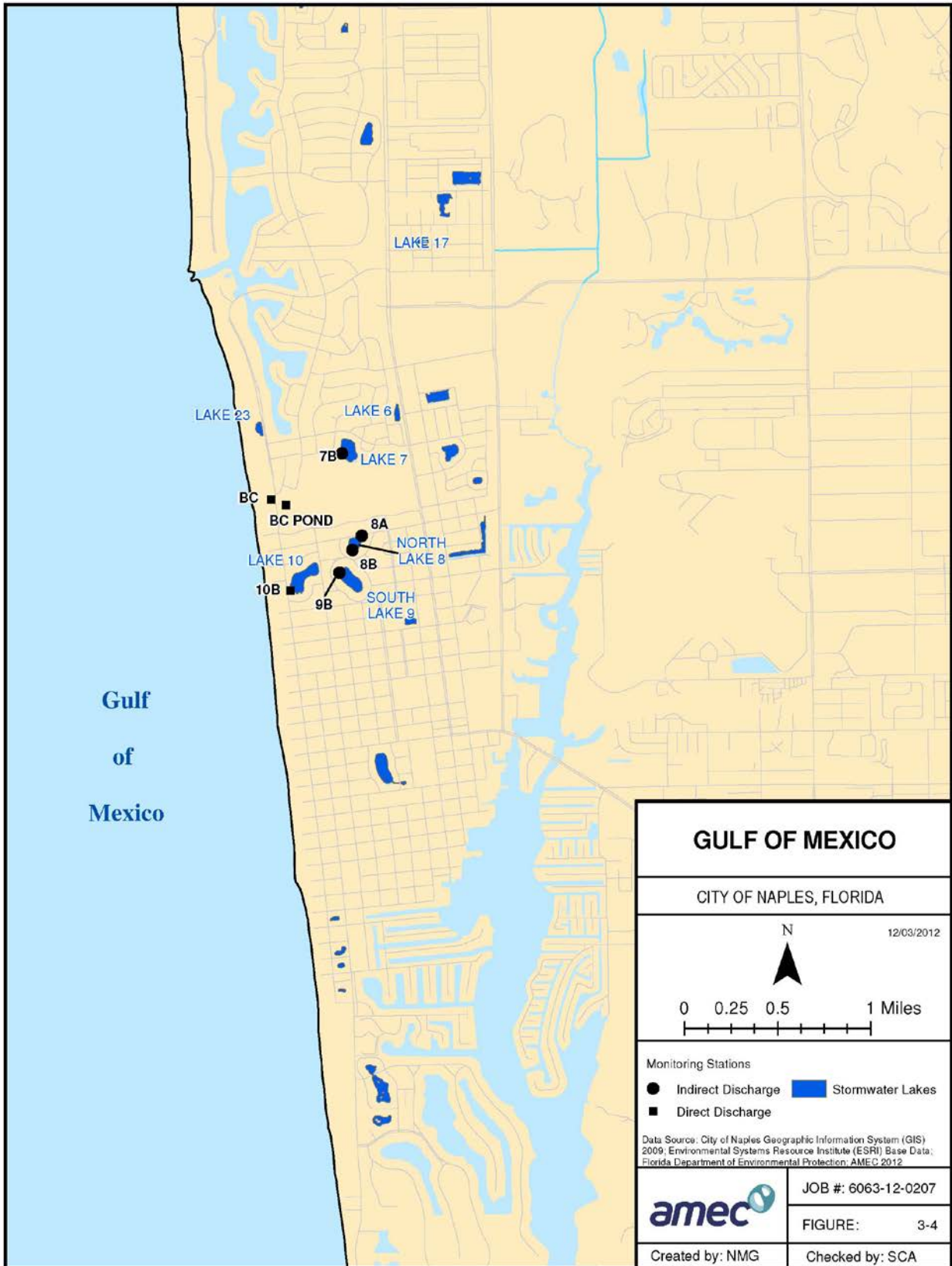
²(n) = 3 for 11-Pump Caffeine, (n) = 1 for all other caffeine results
 Caffeine was not analyzed in all samples.

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4.0 Reclaimed Water Analysis

AMEC was tasked to support the City's public outreach program during this contract year, and suggested limited research to support development of guidance to City residents who use reclaimed water for landscape irrigation. Several lines of investigation were undertaken, including sampling and analysis of reclaimed water, mapping of areas receiving reclaimed water, calculation of nutrients likely to be supplied to landscapes receiving reclaimed water, and interpretation of existing stormwater and lakes water quality parameters in the context of this information. The City has an expanding reclaimed water distribution system which represents both an important water conservation and landscape nutrient resource but may have an adverse effect on stormwater quality. This analysis will help provide guidance for proper management of this resource in a way that is beneficial to the City, City residents and receiving waters of the state.

4.1 Reclaimed Water as a Supplemental Fertilizer

For the evaluation of the viability of City reclaimed water as a supplemental fertilizer source for City residents, historical nutrient concentration data were provided by the City and is included in the format it was received in Appendix A. These data were summarized for total nitrogen (TN) and total phosphorus (TP) concentrations. Typical rates of irrigation water use were combined with the nutrient concentrations to estimate TN and TP applied with reclaimed water to residential landscapes. The estimated TN and TP application rates were compared with recommended TN and TP application rates for typical Florida turf grass.

The average annual TN concentration in City reclaimed water was 2.26 milligrams per liter (mg/L), while that for TP was 0.36 mg/L.

In a study of Florida residential lawns, Augustin (2000) found that a properly irrigated lawn in Ft. Myers Florida required approximately 32 inches of irrigation per year. This rate was used as a baseline for the following analysis. It should be noted however that this is an ideal rate, and not necessarily representative of actual practices by homeowners. In a recent study in central Florida, it was found that homeowners applied 2-3 times more irrigation water than what the vegetation needs (Haley *et al.* 2007). Not only does this increase the nutrient mass delivered to the landscape when reclaimed water is used, it also decreases turfgrass nutrient uptake efficiency (NUE), which is generally reduced as a result of excessive irrigation (Martinez *et al.* 2011). If nutrients are not taken up efficiently in an "over-watering" scenario, then a greater fraction of the applied nutrients run off and infiltrate to groundwater, ultimately transported to waters of the State.

4.1.1 Nitrogen

The "basic" (lowest) UF/IFAS recommended fertilization for St. Augustine grass in South Florida is 4 pounds N per 1,000 square feet (ft²) (Sartain, 2007). Using the measured annual average concentration of 2.26 mg/L TN, combined with a recommended 32 inches per year of irrigation application (less than 1 inch per week), a mass of 0.36 lbs N per 1,000ft² is delivered to the landscape, which is approximately 9% of the minimum recommended rate.

4.1.2 Phosphorus

In peninsular Florida phosphorus is available in the soil in quantities that are sufficient for lawngrasses (Trenholm *et al.* 2002). Therefore, although the quantities of phosphorus in reclaimed water are small, it should be assumed that when irrigating with reclaimed water, frequent application of low concentration TP in reclaimed water will be sufficient to sustain turfgrass TP requirements, with no need for additional fertilization. This assumption is also tentatively supported by the Florida Department of Environmental Protection and St. Johns River Water Management District, who are in the process of developing a statewide Reuse Best Management Practice guideline. Using an average annual irrigation rate of 32 inches per year, and an average TP concentration of 0.36 mg/L, a mass of 0.063 lbs P per 1,000ft² is delivered to the landscape.

4.2 Implications for City Irrigation Practices

Although the concentration of TN in City reclaimed water is not sufficient to meet UF/IFAS recommended annual fertilization rates, there are two factors that should be taken into account that have the potential to significantly influence turfgrass nutrient requirement. The first is the difference in delivery method; NUE is greater when fertilization occurs more frequently. Traditional fertilization practices typically entail one to several major applications throughout the year, however only a portion of the nutrients applied are actually taken up by the vegetation. The surplus fertilizer is then either washed off to downstream surface waters or infiltrates to shallow groundwater. If that same amount of fertilizer were instead applied in smaller doses using a more frequent application rate (e.g. via irrigation 1 to 3 times per week), the turfgrass NUE would be greater, resulting in less fertilizer export from the lawn.

On the other hand, overwatering decreases NUE. Differences in cost and watering restrictions between potable and reclaimed water tend to encourage excessive watering when reclaimed water is available. Based on data gathered from naplesgov.com regarding utility rates (dated September 9, 2011) and irrigation restrictions, irrigating with reclaimed water is both cheaper and less restricted. The cost of irrigating with potable water starts at \$1.31 per 1,000 gallons, compared to a flat rate of \$0.39 per 1,000 gallons for reclaimed. Also, if watering with non-reclaimed water, approved windows are three days per week, in early morning hours only between 12:01 a.m. and 8 a.m. for all types of irrigation and 5:00 p.m. to 7:00 p.m. for low-volume hand watering with the use of automatic self-canceling or closing nozzle. In contrast, irrigation with reclaimed water is far less restrictive, as it is allowed from before 10:00 a.m. or after 4:00 p.m., any day of the week. The economic and use restriction differences between the two sources increases the likelihood that overwatering using reclaimed water will occur. If substantial overwatering occurs (2 to 3 times the recommended rate of 32 inches per year), there is not only a greater mass of nutrients being applied, but transpiration rates and NUEs decrease due to over-saturation of the soil, resulting in greater runoff and nutrient export rates.

Finally, winter watering with reclaimed water applies nutrients when turfgrasses are dormant and fertilizers are not required, nor generally applied. Winter irrigation with reclaimed water is also expected to result in reduced NUE, with greater runoff and nutrient export.

Application of chemical fertilizers is likely to be required to achieve the high quality of turfgrass that many City residents desire. Reclaimed water will supply customers' lawns with enough phosphorus, so phosphorus-free fertilizer is recommended. If irrigation rates are consistent with UF/IFAS recommendations, fertilizers supplying nitrogen will be desirable, although some reduction of application rates may be warranted. Resources available to assist residents in determining an appropriate fertilizer application rate include:

- UF/IFAS guidance (Martinez *et al*, 2011, <http://edis.ifas.ufl.edu/ae479>, also attached);
- A state of Florida certified commercial urban landscape fertilizer applicator; or
- Collier County UF/IFAS Extension (239-353-4244).

All information reviewed as part of this analysis indicate that excessive watering, which is more likely if reclaimed water is supplied, can be similarly detrimental to water quality in the City's lakes and estuaries as overfertilization. In addition to excessive irrigation of lawns and ornamentals, spraying on paved surfaces or directly on the City's lakes (known as overspray) should be avoided particularly when using reclaimed water. A study conducted in central Florida in residential areas irrigated with reclaimed water found that irrigation overspray, even if only 5% of the total irrigation volume, could represent over half of the nutrient export to our water bodies (Erich Marzolf, personal communication).

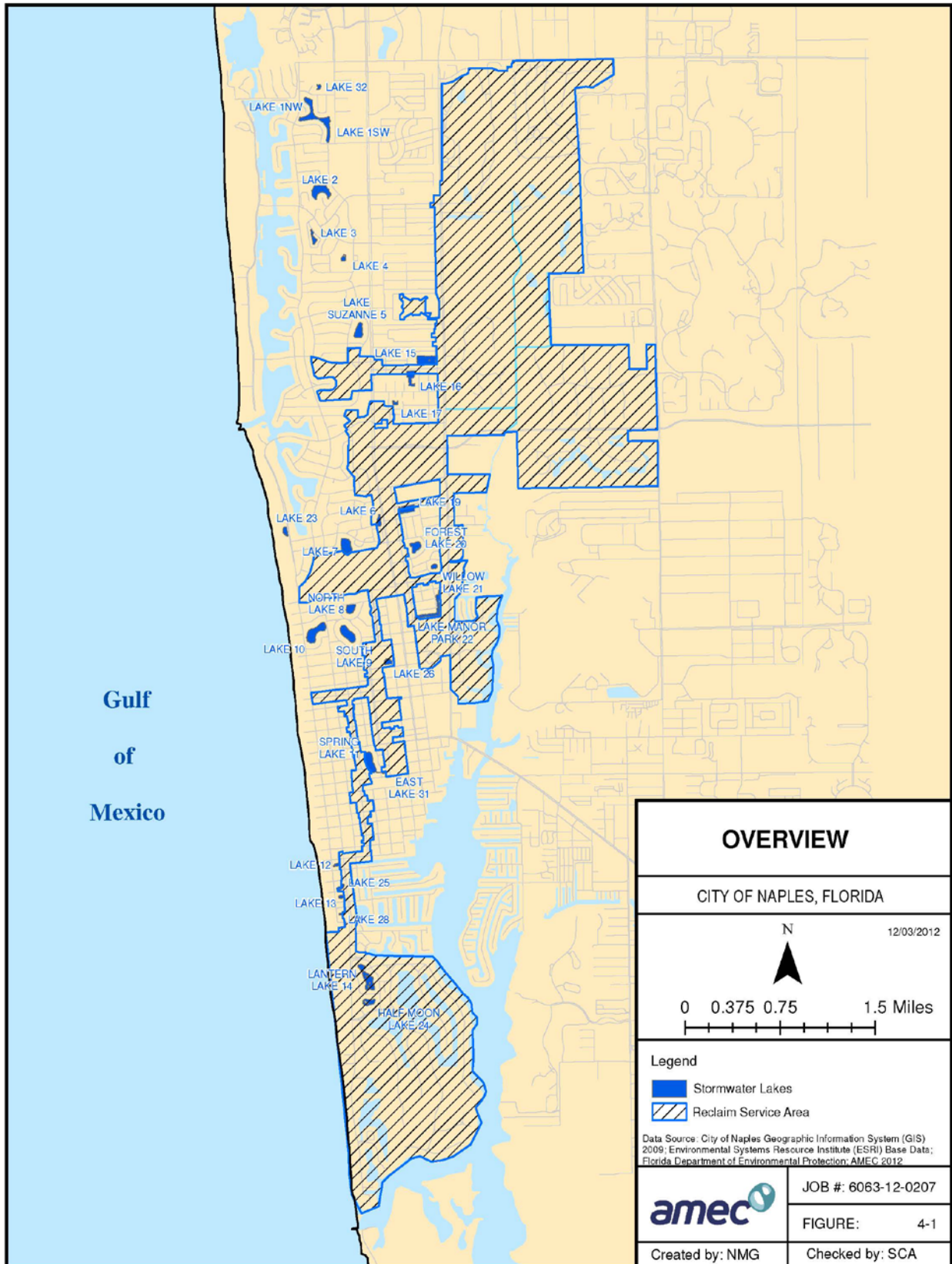
If implemented properly, turfgrass irrigation using reclaimed water can provide benefits to the water provider, end user, and environment. It has the potential to reduce the cost of treatment to a potable quality, reduce the cost of irrigation water to the end user, and reduce the amount of fertilizer purchased by the end user. If managed improperly however, it can represent a substantial increase

in nutrient mass loading to downstream waterbodies. A public outreach program that focuses on the following details would provide an effective first step in educating the public about the inherent benefits associated with reclaimed water irrigation, and how it can be implemented to reduce costs to both the public and the environment:

- Proper irrigation rates – less is more;
- Proper fertilization rates – no TP, savings in TN; and
- Reduce overspray – more harmful than it appears.

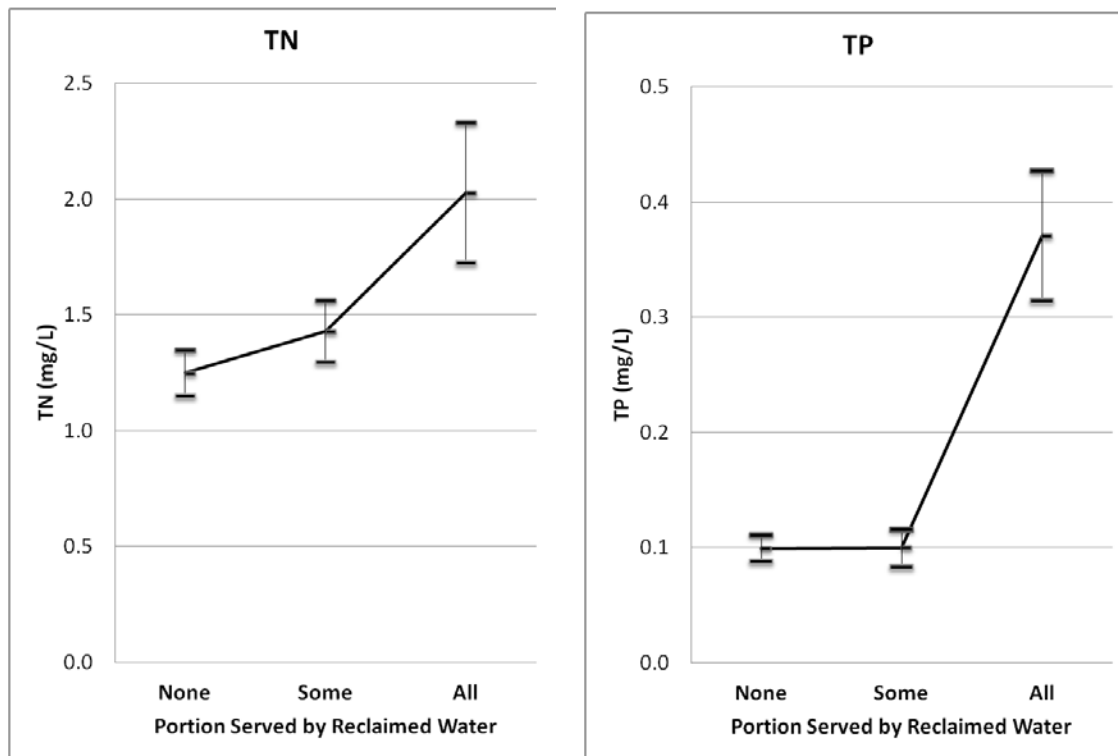
4.3 Effects of Reclaimed Water on Observed Water Quality

For the second part of the reclaimed water analysis, the current reclaimed water service area was obtained from the City of Naples Geographic Information System database and crossed with the monitoring locations and results discussed in Section 3. Figure 4-1 shows the coverage of the reclaimed water service area throughout the City. Several statistical analyses were then performed to determine if sample locations receiving runoff from a reclaimed water service area showed any indication of being influenced by the nutrient content within the reclaimed water.



As a first step, AMEC staff reviewed all sample locations presented in Table 3-5 against the reclaimed service area coverage. Sample locations were given one of three designations depending on how much of the runoff sampled was directly influenced by the current reclaimed water distribution system – all, some, or none. TN and TP in stormwater appear to be closely related to the portion of the sub-basin that is served by reclaimed water, as illustrated by Figure 4-2, showing the average concentrations of TN and TP, with error bars indicating the standard error of the average.

Figure 4-2. Relationship between TN and TP Concentration and Reclaimed Water Service Area



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A two sample t-Test was performed to compare the difference between the observed means of the “none” group and the “all” group for TN and TP. Analyses were performed on all sample locations provided in Table 3-5 and illustrated in Figure 4-2, as well as just lake effluent locations provided in Table 3-5. The results of the analysis are provided in Table 4-1, with averages presented for each statistical group and standard errors indicating uncertainty in the averages. Values given in **bold italics** represent statistically significant differences between “all” and “none” groups at the 0.05 level of significance.

Table 4-1. TN and TP in Stormwater/Lakes Affected by Reclaimed Water

Sample Set	Parameter	units	Reclaimed Service Area Coverage	
			None	All
All Sample Locations	TN	mg/L	<i>1.2 ± 0.10</i>	<i>2.0 ± 0.30</i>
	TP	mg/L	<i>0.10 ± 0.011</i>	<i>0.37 ± 0.056</i>
Lake Effluent Sample Locations	TN	mg/L	1.4 ± 0.15	1.6 ± 0.50
	TP	mg/L	<i>0.075 ± 0.013</i>	<i>0.48 ± 0.19</i>

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For the analysis performed on all sample locations, the mean concentrations of TN and TP from sample locations within reclaimed water service areas were significantly greater than the mean concentrations of sample locations outside of reclaimed water service areas. For analysis performed on only lake effluent sample locations, the mean concentration of TP from sample locations within reclaimed water service areas was significantly greater than the mean concentration of sample locations outside of the reclaimed water service area. The results of this analysis indicate that the use of reclaimed water is associated with an increase in the nutrient concentrations of the runoff generated within these areas. Results also indicate that the phosphorus enrichment caused by use of reclaimed water is not being effectively remediated within the affected stormwater lakes, and better controls through public education and resource management should be considered.

5.0 Revised Prioritization Analysis

As part of the work performed under the previous contract with the City, AMEC developed a condition assessment framework that allowed for prioritization of future remediation efforts (See Section 7 of AMEC, 2012). The condition assessment generated several indices based on modeled nutrient loadings, predicted nutrient removal efficiency, observed nutrient removal efficiency and observed general conditions which were then used to rank each of the 28 lakes on a scale from 1 to 100. Lakes with a higher score were deemed more impaired, meaning that they were functioning at a reduced capacity and contributing most to the trophic impairment of receiving waterbodies. Future remediation efforts directed at these higher scoring lakes would provide the lowest cost/benefit to the City.

One of the final recommendations of the AMEC (2012) Report was to “Revise [the] Prioritization Analysis” with future water quality data. Although the initial prioritization analysis provided a comprehensive assessment of the trophic condition of City lakes based on all available nutrient data, several of the input indices were based on observed lake data that were admittedly limited at the time. As a result, AMEC recommended that those data gaps, particularly for the more impaired lakes, be amended as part of future monitoring efforts. AMEC also intentionally constructed the calculation framework so that these future data amendments could be made with relatively little effort so long as monitoring of the 28 lakes was continued in a consistent manner so as to provide compatible input data. The revised nutrient prioritization analysis discussed herein is a reflection of the updated data inputs.

Also included in this section is a discussion of fecal coliform and copper loadings generated from each stormwater pond and its sub-basin. The purpose of these loading analyses is to show which lakes contribute the greatest annual load of each pollutant to downstream waterbodies, and therefore where future targeted remediation strategies may be best implemented. This analysis is built upon the volumetric loading analyses performed in the previous contracted work, with the concentration data used to calculate mass and colony loadings inclusive of all available data to date. Although the copper and fecal coliform rankings that will be presented in this section are only based on total annual mass or colony loadings of each pollutant (as opposed to a suite of indices), they provide a simple approach to identification of those ponds that are contributing most to downstream waterbody impairments.

5.1 Revised Nutrient Prioritization Analysis

The prioritization analysis provided by AMEC (2012) is the basis for the Revised Nutrient Prioritization Analysis. The analysis provided a ranking of each stormwater lake in terms of unique indices that took into account factors such as volumetric loadings, nutrient loadings, observed nutrient concentrations, predicted nutrient concentrations, and general condition and function indicators. As part of the revision provided here, several updates were made that reflect updates made to loading calculations, updates made to index inputs, and the results of the continued water quality monitoring.

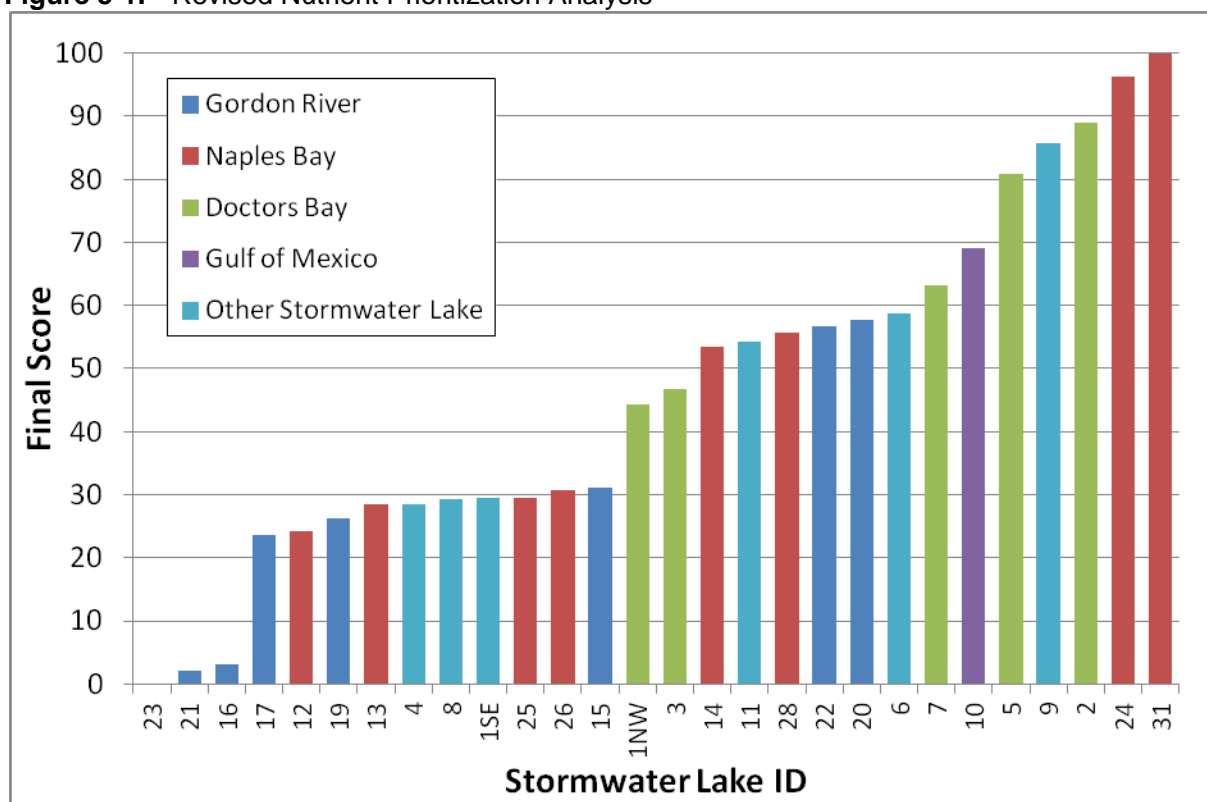
The first revision that was made to the AMEC (2012) Prioritization Analysis reflected updates to the assumed routing of the Lake 7, 8, 9, and 10 system. Initially, based on drainage maps provided by the City, volumetric loadings (and therefore mass loadings) generated from Lake 7 were assumed to flow, in series, to Lakes 8, 9 and 10 prior to discharge into the Gulf of Mexico. However, during current year monitoring efforts, it was determined that discharge from Lake 7 was instead routed to Doctors Bay. The loading calculations were revised accordingly, which had the effect of reducing the total load directed to and discharged from Lakes 8, 9 and 10. Because Lakes 9 and 10 were located near the top of the previous final ranking, this “improved” their scores somewhat, and provided a more accurate condition assessment as given below.

The second revision that was made to the AMEC (2012) Prioritization Analysis was the removal of TSS from index inputs. TSS is a broad water quality parameter and as such has some overlap with more pertinent parameters such as TN and TP. Because TN and TP were already direct inputs into four of the seven indices and were directly related to previously identified causes of downstream waterbody impairments, it was decided to remove TSS to avoid any redundancy in the calculations and provide a more direct assessment of lake condition. This also had the effect of “improving” the score of Lake 10, which had previously scored high due to an overestimation of volumetric loading and several anomalously high TSS values (even though corresponding TN and TP concentrations were fairly typical).

The final revision made to the AMEC (2012) Prioritization Analysis was to incorporate water quality data from current year monitoring efforts. The additional data points helped to fill in previously identified data gaps and to reinforce previously identified water quality trends.

Figure 5-1 shows the results of the Nutrient Prioritization Analysis. The ranking is based on seven unique indices, details of which can be found in AMEC (2012). A score of 0 represents a properly functioning Lake, whereas a score of 100 represents a Lake in poor condition that has lost its nutrient removal capacity and is likely functioning as a source of nutrient loading to downstream waterbodies. Lakes are categorized by receiving waterbody.

Figure 5-1. Revised Nutrient Prioritization Analysis



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Based on the revised ranking, Lakes 31 (East Lake), 24 (Half Moon Lake), 2 (Swan Lake), 9 (South Lake) and 5 (Lake Suzanne) are in the poorest health with respect to nutrients and would likely benefit most from remediation efforts. Due to the nature of the input calculations and for the purpose of this analysis, it can be assumed that the results for Lake 31 (East Lake) are also a reflection of the condition of Lake 11 (Spring Lake), and remediation efforts directed at both Lakes would provide an overall condition improvement.

5.2 Copper Loading Analysis

Copper is one of the designated causes of impairment (see Section 2) to downstream waterbodies, and is a focus of current monitoring efforts. In order to provide guidance to City staff on where sources are being generated, source tracking and continued monitoring has been conducted as discussed in previous sections and reports. Results of current year monitoring efforts have been added to all previously available water quality data and combined with the hydrologic analyses performed as part of AMEC (2012) to calculate total annual mass loadings of copper generated from each stormwater lake using the following equation:

$$M_d = 0.00123 V_d C_{Ave}$$

where:

M_d = annual mass discharged from lake (kg/yr)

V_d = annual volume discharged from lake (acre-ft/yr)

C_{Ave} = average concentration measured at lake outfall ($\mu\text{g/L}$)

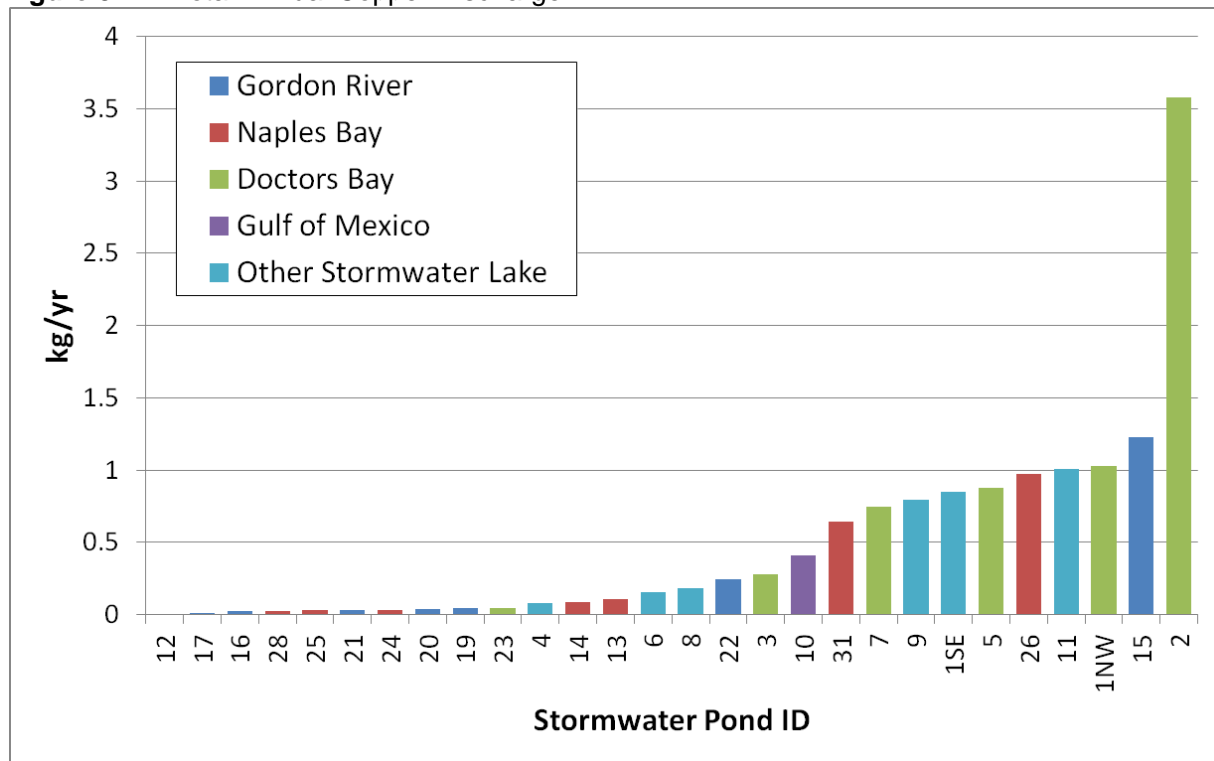
A summary of inputs is provided in Table 5.1 and illustrated in Figure 5-2, with lakes categorized by receiving waterbody.

Table 5-1. Summary of Copper Loading Analysis

Basin	Lake ID	Annual Volume Discharged ¹	Average Concentration	Annual Mass Discharged
		(acre-ft/yr)	($\mu\text{g/L}$)	(kg/yr)
Gordon River	15	68	15	1.2
	16	20	0.89	0.022
	17	25	0.30	0.009
	19	32	1.1	0.043
	20	43	0.70	0.037
	21	7.6	3.4	0.032
	22	118	1.7	0.25
Naples Bay	12	3.0	0.30	0.0011
	13	10	8.4	0.11
	14	34	2.0	0.083
	24	9.4	2.9	0.034
	25	4.3	5.6	0.030
	26	17	46	0.97
	28	4.0	5.4	0.027
	31	116	4.5	0.64
Doctors Bay	1NW	125	6.7	1.0
	2	191	15	3.6
	3	60	3.7	0.28
	5	97	7.3	0.88
	7	46	13	0.74
	23	9.8	3.7	0.045
Gulf of Mexico	10	140	2.3	0.41
Other Stormwater Lake	4	30	2.1	0.078
	8	62	2.4	0.18
	9	100	6.4	0.80
	6	25	5.0	0.16
	11	111	7.3	1.0
	1SE	51	14	0.85

¹Source: AMEC (2012)

Figure 5-2. Total Annual Copper Discharge



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Of all the monitored stormwater lakes, Lake 2 (Swan Lake) has the greatest annual copper discharge at 3.6 kg/yr. This is due to the elevated copper concentrations that are consistently observed at the discharge (mean=15.1µg/L, max=63µg/L, n=7) as well as the fact that the calculated annual discharge volume (191acre-ft/yr) is the greatest of all evaluated stormwater lakes. After Lake 2, there are nine stormwater lakes that discharge between 0.5 and 1.5 kg/yr, with the remaining stormwater lakes discharging less than 0.5 kg/yr.

5.3 Fecal Coliform Loading Analysis

Fecal coliform is also one of the designated causes of impairment (see Section 2) to downstream waterbodies, and is a focus of current monitoring efforts. In order to provide guidance to City staff on where sources are being generated, source tracking and continued monitoring has been conducted as discussed in previous sections and reports. Results of current year monitoring efforts have been added to all previously available water quality data and combined with the hydrologic analyses performed as part of AMEC (2012) to calculate total annual loadings of fecal coliform (quantified as CFU/yr) generated from each stormwater lake using the following equation:

$$CFU_d = 1.23 \times 10^7 \times V_d \times C_{Ave}$$

where:

CFU_d = annual Colony Forming Units discharged from lake (CFU/yr)

V_d = annual volume discharged from lake (acre-ft/yr)

C_{Ave} = average concentration measured at lake outfall (CFU/100mL)

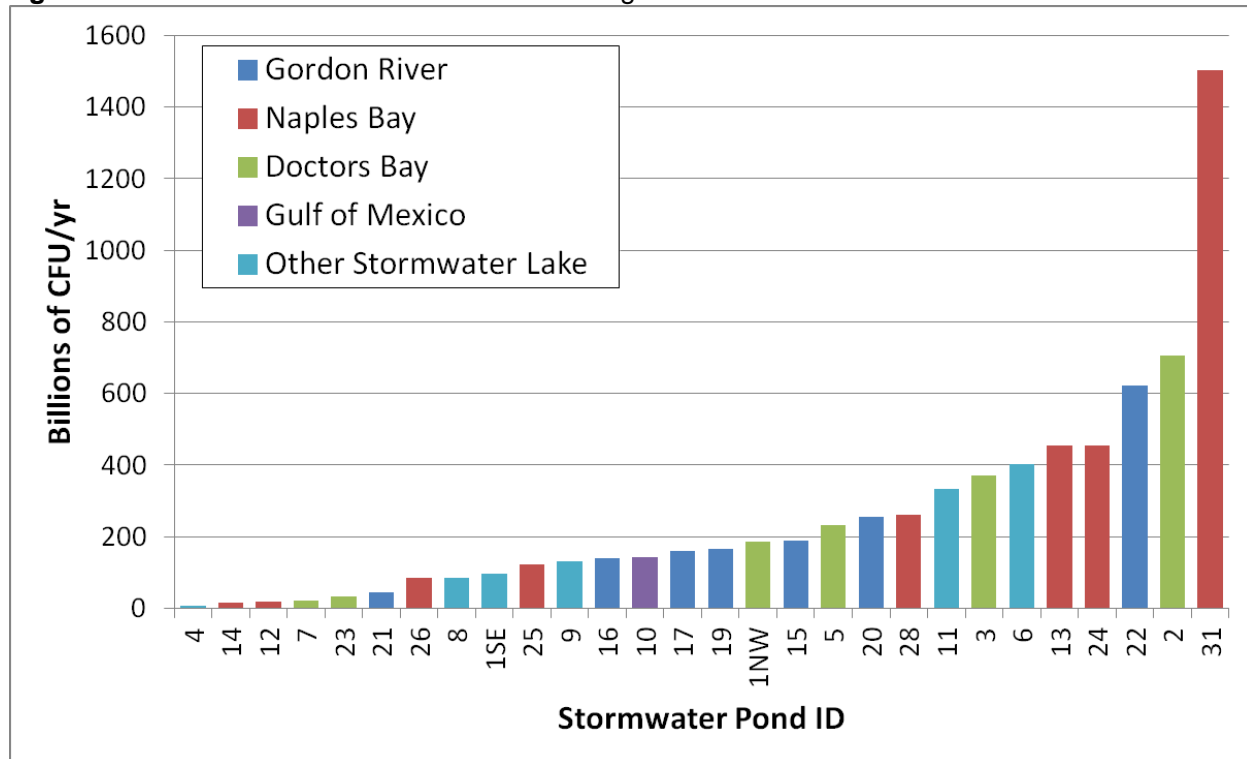
A summary of inputs is provided in Table 5.1 and illustrated in Figure 5-2, with lakes categorized by receiving waterbody.

Table 5-2. Total Annual Fecal Coliform Discharge

Basin	Lake ID	Annual Volume Discharged ¹	Average Concentration	Annual Mass Discharged
		(acre-ft/yr)	(CFU/100mL)	(billions of CFU/yr)
Gordon River	15	68	224	188
	16	20	561	140
	17	25	520	161
	19	32	419	166
	20	43	481	257
	21	7.6	481	45
	22	118	428	622
Naples Bay	12	3.0	490	18
	13	10	3600	454
	14	34	40	16
	24	9.4	3919	454
	25	4.3	2300	121
	26	17	398	85
	28	4.0	5300	260
Doctors Bay	31	116	1049	1503
	1NW	125	120	187
	2	191	298	705
	3	60	497	370
	5	97	193	231
	7	46	39	22
	23	9.8	280	34
Gulf of Mexico	10	140	83	143
Other Stormwater Lake	4	30	21	8
	8	62	112	85
	9	100	105	130
	6	25	1308	404
	11	111	243	334
	1SE	51	152	95

¹Source: AMEC (2012)
 Created By: SCA
 Checked By: WAT

Figure 5-3. Total Annual Fecal Coliform Discharge



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Lake 31 (East Lake) discharges the greatest number of bacteria to downstream waterbodies, as indicated in Figure 5-3. As stated in past reports, East Lake is connected to Spring Lake (Lake 11), and the two can typically be assumed to represent one contiguous waterbody. Following East Lake, Lake 2 (Swan Lake) and Lake 22 (Lake Manor) contribute the highest bacteria loadings to downstream waterbodies.

5.4 Summary Prioritization Analysis

Based on the results presented above, a prioritization ranking can be derived based on targeted pollutants. By comparing stormwater lakes with respect to individual pollutants, future remediation strategies can be implemented effectively. Table 5-3 summarizes the results of Section 5 by listing the top five lakes in each pollutant category that would benefit most from BMP implementation. Commonly implemented structural and nonstructural BMPs are then provided based on the targeted pollutant, and should be considered based on the ranking provided in Table 5-3.

Table 5-3. Summary of Pollutant Specific Rankings

Order	Nutrients (TN/TP)		Copper		Fecal Coliform	
	Lake ID	Score	Lake ID	Loading (kg/yr)	Lake ID	Loading (billions of CFU/yr)
1	31	100	2	3.6	31	1503
2	24	96	15	1.2	2	705
3	2	89	1NW	1.0	22	622
4	9	86	11	1.0	24	454
5	5	81	26	1.0	13	454

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The rankings given above should be viewed as a preliminary assessment of where to target future remediation efforts. Each stormwater lake should also be evaluated in terms of which receiving waterbody its discharge is directed to. For example, Lake 31 (East Lake) and Lake 22 (Lake Manor)

discharge into Gordon River and upper Naples Bay, respectively, and are ranked high in at least one category given in Table 5-3. Gordon River and Naples Bay have been identified as impaired (see Section 2.1), and therefore FDEP requirements to implement improvements in water quality are more imminent. Further, Gordon River and upper Naples Bay are less tidally influenced than lower Naples Bay and Moorings Bay, for example, and as such are more sensitive to increased pollutant loadings than the more tidally influenced and regularly flushed systems. These types of qualitative evaluations should be used in combination with the more quantitative measures provided in Table 5-3 when deciding where to direct future BMPs. Also, as with any capital investment, other factors will need to be considered including implementation feasibility and cost, however the above provides a starting point for targeted solutions.

5.5 Possible Structural and Non-Structural BMPs

As indicated in Section 2, causes of impairments for the state waters in and around the City include nutrients, copper and fecal coliform. As such, data collected as part of the current year monitoring efforts as well as past years' monitoring efforts have been organized to highlight those areas most in need of improvement, with focus placed on general stormwater lake health as well as specific pollutants. Included in this section is a list of possible structural and non-structural BMPs that are recommended by various regulatory agencies including FDEP and EPA, and that are commonly implemented in similarly urbanized watersheds. Although there are a number of structural and nonstructural BMPs that can potentially reduce all targeted pollutants, there are some that are more effective than others, and some that are designed more for individual pollutants. The BMPs discussed below have been evaluated based on their overall effectiveness as well as their applicability to the targeted pollutant categories discussed above.

5.5.1 LID BMPs

In urbanized areas, available land is often the primary impediment to installation of structural stormwater Best Management Practices (BMPs). Low Impact Development (LID) is a practice that is becoming widely accepted as an effective stormwater treatment option in such areas however, and a growing body of research and guidance is available to local governments and resource managers. LID techniques attempt to mimic the predevelopment hydrologic regime of a site, using features that minimize runoff and pollutant export through increased retention, detention and infiltration. The approach of LID strategies generally address increased runoff at a local, site-by-site scale, as opposed to larger basin-scale features such as detention ponds. Accordingly, they can be implemented as new development, redevelopment, or general site improvement installations. This makes it appealing not only from a cost standpoint, but from an implementation feasibility standpoint as well, as land requirements are generally minimal and regulations can be incorporated into local ordinances and regulatory policy.

Below is a list of commonly utilized LID BMPs. LID BMPs function by either reducing the total volume of stormwater discharged from a site, filtering the stormwater prior to discharge from the site, or both. Although most LID BMPs operate using some combination of the two, each one typically has a dominant mechanism and can be implemented based on that primary function. In general, any BMP that reduces the total volume of runoff from a site will reduce the pollutant load as well, making it applicable to nutrient (TN/TP), metals, and bacteria reduction. BMPs that function in more of a filtration capacity may not be as effective for bacteria reduction, but can still be effective in nutrient and metals reduction. The below BMPs have been categorized based on their primary treatment mechanism – volume reduction or filtration.

Volume Reduction LID BMPs:

- Bioinfiltration
- Pocket Wetlands
- Porous Pavement
- Rain Barrels/Cisterns
- Rain Gardens

Filtration LID BMPs:

- Filter Strips
- Soil Amendments
- Tree Box Filters
- Vegetated Buffers
- Vegetated Swales

A number of sources for information on LID BMPs also exist, including Lowimpactdevelopment.org and the USEPA National Menu of Stormwater Best Management Practices. Information available includes construction and implementation guidance, treatment performance, and guidance on incorporating rules into local ordinances and regulatory policy.

LID BMPs represent a method of stormwater treatment that is widely applicable to the City and should be considered wherever possible. Practices should be implemented City wide, with particular attention focused towards those areas shown to have high levels of nutrients, metals or bacteria. These include, but are not limited to, the commercial district of 5th Ave. S that drains into Spring Lake, the drainage basins for any lakes identified in Table 5-3, and each of the pump station watersheds. Based on the long term water quality for the pump stations, LID BMPs more suited to bacterial removal (i.e. volume reduction LID BMPs) should be considered for the Cove Pump Station (11-Pump) drainage basin, whereas all types of LID BMPs should be considered for Public Works Pump Station (PW-Pump) drainage basin and Lantern Lane Pump Station (14-Pump) drainage basin.

5.5.2 Sediment Treatment and Removal

As documented in this report as well as AMEC (2012), many of the 28 City stormwater lakes have the potential for significant improvements in pollutant removal efficiencies, however most have large deposits of legacy sediments that contribute to internal nutrient recycling, re-suspension and export. Ultimately, the accumulated sediment in many of these systems may require removal or chemical inactivation before additional corrective actions such as LID BMPs or homeowner education are implemented. Short of complete sediment removal, there are certain in-situ treatment options that may be appropriate in isolated cases and at a reduced cost compared to full chemical inactivation.

Several methods of in-situ treatment options exist, however one promising amendment recently introduced to Florida is a bentonite (clay) matrix embedded with lanthanum (a rare earth metal). The current trade name for the substance is Phoslock®, however several manufacturers are developing similar materials. Phoslock® works by forming a highly stable bond with orthophosphate, the bioavailable form of phosphorus. When bound, the phosphorus contained in the stable compound is no longer available to stimulate growth in microorganisms or plants, and the compound settles to the bottom where it continues to bind to orthophosphate released from the sediment until its sorption capacity is met. These settled compounds then remain non-bioavailable.

Although Phoslock® is specifically targeted to phosphorus removal from both the water column and sediment, it may have indirect effects on the reduction of nitrogen in both City stormwater lakes and downstream waters of the state. High phosphorus levels, particularly when accompanied by relatively lower nitrogen levels, can promote cyanobacteria (or “blue-green algae”) blooms that fix large amounts of nitrogen from the atmosphere, which then adds to the overall eutrophication of the system and can be exported to downstream waterbodies. By controlling phosphorus levels in freshwater and brackish systems, this possible source of nitrogen can be eliminated, and a waterbody can be restored to a healthier state.

Several of the stormwater lakes have been observed to have elevated phosphorus levels concurrent with large algal blooms. These conditions are not only indicative of appropriate conditions for cyanobacteria blooms in the stormwater lakes themselves, but export of large quantities of phosphorus to downstream waters of the state has the potential to promote cyanobacteria blooms in those waters as well. Lakes that have been previously identified as having trophic conditions

conducive to cyanobacteria proliferation and/or elevated phosphorus concentrations include Lakes 5 (Lake Suzanne), 14 (Lantern Lake) and 24 (Half Moon Lake). Further consideration should be given to in-situ phosphorus remediation in these lakes as a proof of concept for overall nitrogen and phosphorus reduction.

In addition to in-situ treatment, spot dredging or whole lake dredging should be considered for some of the more overloaded City stormwater lakes. When lakes sediment becomes super saturated with nutrients or metals, it can take years or even decades for external pollutant load reductions to have any effect on the water quality of the lake, as the sediment can serve as a constant internal source of nutrients. In such cases of extreme sediment nutrient concentration, removal of sediment is often the best course of action. Additional investigation is warranted in these situations to determine the overall chemistry of the sediment, to evaluate the potential water quality improvements that may occur due to sediment removal, and to determine a total cost/benefit analysis compared to other less costly remediation strategies. Lakes identified in AMEC (2012) or as having a high score in Sections 5.1 or 5.2 should be considered for spot or whole lake dredging.

5.5.3 End of Pipe Treatment Methods

End of Pipe Treatment Methods, although not ideal in that they often treat the symptom and not the source, can be effective when source treatment options are not easily defined or cost effective. Based on continued bacteria source tracking efforts performed in this and past years' contracts, AMEC and the City have been able to locate areas of likely sources, but have been less successful in "pinpointing" actual sources. As a result, while efforts to locate and remediate actual sources continue, end of pipe treatment methods may help reduce current and future bacteria export to downstream waterbodies.

One such end of pipe treatment method utilizes antimicrobial filter media, with variations produced by various manufacturers such as Fabco Industries, Inc and AbTech Industries, Inc. The material, when combined implemented using configurations such as Fabco's StormSafe Helix design, is designed to be an in-line installation into existing stormwater pipes. When placed in series with a large debris separator/sediment sump at the front end, the technology has been shown to provide significant bacterial count reductions while not causing large losses in hydraulic capacity. The filters can be installed with a high flow bypass mechanism as well, further reducing upstream flooding concerns.

The Fabco Industries, Inc. StormSafe Helix or similar antimicrobial end of pipe treatment could be implemented in the 5th Ave. S commercial district or along Gordon Dr. in the Lantern Lane Pump Station drainage basin, where source tracking efforts have confirmed consistently high bacteria counts. As previously stated however, this should not be considered as a final solution to bacteria treatment in the area, as source elimination should always be the preferred course of action.

5.5.4 Floating Islands

Floating Islands are a low cost and increasingly popular method of increasing the treatment capacity of existing ponds, lakes and wetlands. The City has already installed several floating islands in the following lakes:

- North Lake (8)
- Lake 12
- Lantern Lake (14)
- Forest Lake (20)
- Willow Lake (21)
- Lake Manor (22)
- Lake 25
- East Lake (31)

and should continue adding to their floating island inventory so long as staff resources are available for regular maintenance. After installation, regular (at least once per year) maintenance is imperative to maintain proper functioning of the systems, as the primary treatment mechanism utilized by floating islands is vegetative nutrient uptake. Vegetation, ideally, should be harvested following the growing season, so that nutrients that were assimilated during the growing season are

not released back into the system upon senescence. Lakes that would benefit most from floating islands include those identified in Section 5.1 as having high scores.

5.5.5 Homeowner Education

Homeowner Education is a non-structural BMP that can be effective in the reduction of nutrients, metals and bacteria. In Section 4, it was demonstrated that the City reclaimed water can be used as a partial nitrogen supplement and a full phosphorus supplement for landscape fertilization, and that areas within the current reclaimed water service area have significantly greater concentrations of TN and TP within the surface water. Homeowners (and business owners) should be aware of this resource, and should be educated about its benefits and potential for abuse. Homeowner education strategies can be implemented for copper and bacteria controls as well. More specifically, homeowners should be aware of the detrimental effects of copper-based algaecides in causing downstream waterbody impairments, as well as the importance of proper disposal of pet waste. A low cost action that the City can take in areas of elevated bacteria concentrations, including the Broad Street and Lantern Lane Pump Station drainage basins, is installation of signage and pet waste stations that promote responsible pet waste management and educate the public on the effects of pet waste on the impairment of downstream waterbodies. The City may wish to review reclaimed water pricing strategies and modifying watering restrictions so that excessive irrigation is not encouraged.

6.0 Conclusions and Recommendations

The results of the current year monitoring efforts were able to fill in critical data gaps and support more targeted remediation recommendations. Analysis of results generally followed and reinforced trends observed in previous reports, including identification of conveyances with elevated pollutant concentrations and lakes with consistently high discharge pollutant concentrations.

With respect to nutrients, including TN and TP, the revised prioritization analysis provided in Section 5.1 was able to provide an improved ranking of those stormwater lakes that would most benefit from general nutrient remediation strategies. These lakes include, in order of descending rank, 31 (and 11), 24, 2, 9 and 5. One of the main metrics used to gage condition in this ranking was annual nutrient export, so that any efforts focused at improving the trophic condition of each of these lakes will have the biggest “bang for the buck” in reducing total nutrient loadings to downstream waters of the state. Specific remediation efforts that could be applicable to these areas were outlined in Section 5.5, and include various LID BMPs, sediment removal or in-situ treatment, floating islands and homeowner education.

The prioritization established with respect to total copper export, provided in Section 5.2, identified the 5 lakes with the highest annual export of copper to downstream waterbodies. As discussed in this report and previous reports, these large exports can be due to a multitude of factors, including excessive runoff from roads, current or past copper algacide application, or legacy copper stored in lake sediment as the result of all past inputs. In addition to these five lakes, the Public Works Pump Station has resulted in consistently elevated measured copper concentrations. Future BMPs directed towards copper treatment should be focused within this drainage basin, as well as the drainage basins of each of the highest exporting stormwater lakes. BMPs effective at copper treatment generally include most LID practices, including any installation designed for overall volume reduction or any installation that promotes increased contact time with organic material, such as vegetated buffers, swales, and natural soil infiltration.

During this contract, caffeine was analyzed in 18 samples that were also analyzed for fecal coliforms. The analysis of caffeine was impaired in some of those samples due to unexpected analytical interferences, resulting in unusually high detection limits. Five of the 18 caffeine analyses were not meaningful due to unusually high detection limits. These are the results reported as 260 ND in Tables 3-1 and 3-3. For the remaining 13 caffeine analyses, AMEC determined that fecal coliform levels are significantly correlated with caffeine. This indicates that a portion of the fecal coliforms observed in stormwater in the City can be attributed to sewage contamination within stormwater conveyances. Specifically, 39% of the variation in fecal coliform levels is associated with caffeine, a distinct indicator of human effluents. This finding also clarifies that other sources, such as pet waste or wildlife, probably also contribute to observed levels of fecal coliform levels.

The fecal coliform prioritization provided in Section 5.3 identified the 5 lakes with the highest annual export of fecal coliform bacteria to downstream waterbodies. This analysis, together with the source tracking efforts that identified the 5th Ave. S commercial district and the portion of the Lantern Lane Pump Station drainage basin along Gordon Dr. as areas with elevated fecal coliform concentrations, should be used to guide future targeted remediation efforts. Treatment options that should be considered in these areas include any LID BMP designed for volume reduction, homeowner education, and the filter media discussed in Section 5.5. Source tracking efforts should continue, with additional focus placed on identifying aging infrastructure, including sanitary sewer and storm sewer conveyances. Besides intentional illicit dumping, pet waste and wildlife influences, failing infrastructure represents a likely source of bacterial contamination to surface waters in any highly urbanized environment. A review of infrastructure age and condition should be undertaken by the City, with condition assessments performed on the oldest or most heavily-used areas.

The reclaimed water analysis in Section 4 provided results that indicated additional attention paid to homeowner education and proper resource management was warranted. The analysis showed that the City and its residents have a valuable resource with the potential for substantial cost savings to all parties, however proper and efficient management of the resource must first be implemented. The analysis showed that the reclaimed water generated from the City water treatment plant contained sufficient phosphorus to warrant the complete elimination of phosphorus from fertilizer used on turfgrass in reclaim water service areas, and contained nitrogen in quantities that warrant a significant reduction in nitrogen fertilizer applied to turfgrass in reclaim water service areas. Furthermore, the statistical analysis performed on the data presented in Table 3-5 show that surface waters within reclaimed water service areas show significantly higher concentrations of nitrogen and phosphorus than surface waters outside of these areas. This is indication that the landscapes within the reclaimed service areas are likely becoming saturated with respect to their ability to retain nutrients, and are thus exporting nitrogen and phosphorus due to the excesses being applied.

7.0 References

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Appendix A
Ambient Water Quality

Quarter 1

Quarter 1 Ambient Water Quality Parameters

<i>Parameter</i>		Type	In/Out	Flow	Date	Time	Sample Type	Temp	pH	DO	Conductivity
Units				(Y/N)				(°C)	(s.u.)	(mg/l)	(µS/cm)
Location											
Pump Stations	PW-Pump	Pump Station		N	4/4/12	11:30 AM	bailer	26.85	7.2	6.14	1430
	14-Pump	Pump Station	In	N	4/5/12	9:30 AM	bailer	26.97	7.51	4.99	7091
	11-Pump	Pump Station		Y	4/5/12	11:45 AM	bailer	25.05	7.09	4.52	2428
Semi-Annual Sampling Locations	1NW-B	Lake	Out	N	4/4/12	9:15 AM	bailer	27.27	7.88	5.38	508
	2B	Lake	Out	Y	4/4/12	9:00 AM	bailer	27.33	8.17	9.17	462
	3B	Lake	In	N	4/6/12	8:15 AM	bailer	26.15	7.64	5.81	707
	5B	Lake	Out	Y	4/4/12	9:55 AM	bailer	27.82	8.52	9.25	442
	6B	Lake	Out	Y	4/4/12	2:10 PM	bailer	29.37	7.65	6	617
	7B	Lake		N	4/6/12	8:30 AM	bailer	26.67	8.09	4.2	1321
	8B	Lake		N	4/6/12	9:00 AM	bailer	27.48	7.98	4.99	860
	9B	Lake		N	4/6/12	9:15 AM	bailer	26.81	8.24	5.94	802
	10B	Lake		N	4/6/12	9:45 AM	bailer	26.3	7.73	3.3	9660
	11B	Lake	Out	Y	4/5/12	10:45 AM	bailer	27.29	7.83	4.72	622
	14B	Lake	Out	Y	4/5/12	9:05 AM	bailer	27.7	7.9	4.87	8072
	15B	Lake	Out	Y	4/4/12	10:15 AM	bailer	27.59	8.66	7.55	507
	16B	Laek		Y	4/4/12	10:45 AM	bailer	27.79	7.95	7.23	409
	19B	Lake	Out	Y	4/4/12	12:20 AM	bailer	27.08	7.33	5.25	1031
	20B	Lake	Out	Y	4/4/12	12:40 AM	bailer	28.27	8.16	7.36	540
21B	Lake	In	N	4/4/12	1:20 PM	bailer	29.38	7.86	8.02	472	
22B	Lake	Out	Y	4/4/12	1:45 PM	bailer	28.93	8.77	19.6	466	
26B	Lake	Out	Y	4/4/12	2:30 PM	bailer	27.7	7.13	2.54	496	
Roaming Locations	1A	Lake	In	N	4/6/12	7:45 AM	bailer	26.57	7.49	4.35	507
	BC-Pond	Lake	Out	N	4/5/12	12:45 PM	bailer	27.95	8.04	6.91	1634
	22A	Lake	In	N	4/4/12	1:20 PM	bailer	N/A	7.16	2.4	701
	4th Ave. Alley	Conveyance		N	4/6/12	10:00 AM	bailer	22.83	8.28	7.12	47
	4th Ave. Garag	Outfall	Out	N	4/5/12	10:00 AM	bailer	24.7	7.24	0.31	530
	11A	Lake	In	N	4/5/12	10:25 PM	bailer	27.3	7.84	3.73	635
	GD	Conveyance	Out	Y	4/5/12	9:45:00 AM	bailer	23.56	7.65	3.96	1472

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Checked By: TSK

Quarter 2

Quarter 2 Ambient Water Quality Parameters

<i>Parameter</i>		Type	In/Out	Flow	Date	Time	Sample Type	Temp	pH	DO	Conductivity
Units				(Y/N)				(°C)	(s.u.)	(mg/l)	(µS/cm)
Location											
Pump Stations	PW-Pump	Pump Station			7/5/2012	1:20 PM	bailer	28.55	7.14	3.96	7072
	14-Pump	Pump Station		Y	7/5/2012	11:30 AM	bailer	29.98	7.51	4.63	8755
	11-Pump	Pump Station		N	7/5/2012	12:30 PM	bailer	27.57	7.27	3.11	1490

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Checked By: TSK

Quarter 3

Quarter 3 Ambient Water Quality Parameters

Parameter		Type	In/Out	Flow	Date	Time	Sample Type	Temp	pH	DO	Conductivity
Units				(Y/N)				(°C)	(s.u.)	(mg/l)	(µS/cm)
Location											
Pump Stations	PW-Pump	Pump Station		Y	9/25/12	2:45 PM	bailer	28.09	7.19	4.56	1486
	14-Pump	Pump Station		Y	9/26/12	11:15 AM	bailer	27.75	7.15	4.15	30706
	11-Pump	Pump Station			9/26/12	9:45 AM	bailer	27.72	6.51	6.01	1331
Semi-Annual Sampling Locations	1SE-B	Lake	Out	N	9/25/12	9:45 AM	bailer	27.33	7.31	4.81	453
	2B	Lake	Out	Y	9/25/12	10:30 AM	bailer	27.54	7.29	4.52	1718
	3B	Lake	Out	Y	9/25/12	11:00 AM	grab	27.35	7.16	4.74	877
	5B	Lake	Out	Y	9/25/12	11:15 AM	grab	28.48	7.17	3.35	411
	6B	Lake	Out	Y	9/25/12	12:45 PM	grab	28.19	7.15	4.47	641
	7B	Lake	Out	N	9/26/12	7:30 AM	bailer	27.73	8.44	8.79	1240
	8B	Lake	Out	Y	9/26/12	8:00 AM	grab	27.51	7.22	4.22	660
	9B	Lake	Out	N	9/26/12	8:30 AM	bailer	27.1	7.32	4.51	651
	10B	Lake	Out	Y	9/26/12	9:00 AM	bailer	27.42	6.81	6.34	9139
	11B	Lake	Out	Y	9/26/12	9:30 AM	grab	27.43	5.88	2.41	533
	14B	Lake	Out	Y	9/26/12	11:00 AM	grab	27.58	5.91	2.73	7529
	15B	Lake	Out	Y	9/25/12	11:30 AM	grab	28.66	7.83	6.56	477
	16B	Lake	Out	N	9/25/12	11:45 AM	grab	28.01	7.29	1.43	468
	19B	Lake	Out	Y	9/25/12	12:00 PM	grab	28.33	7.61	8.04	554
	20B	Lake	Out	Y	9/25/12	1:00 PM	grab	28.39	7.5	4.23	437
21B	Lake	Out	N	9/25/12	1:30 PM	bailer	28.54	7.22	4.14	430	
22B	Lake	Out	Y	9/25/12	2:30 PM	grab	27.67	6.93	2.02	589	
26B	Lake	Out	Y	9/27/12	7:30 AM	grab	26.31	NA	1.19	536	
Roaming Locations	CP	Conveyance	Conveyance	Y	9/26/12	10:45 AM	bailer	28.38	6.13	4.12	766
	22A3	Lake	In	N	9/25/12	2:00 PM	pump	28.05	6.96	0.88	506
	4th Ave 3	Conveyance	Conveyance	Y	9/26/12	1:00 PM	pump	27.08	6.92	0.41	653
	1A3	Lake	Out	N	9/25/12	9:30 AM	pump	28.46	6.84	0.85	441
	GD3-Pond	Lake (private)	Out	N	9/26/12	11:45 AM	bailer	27.72	7.14	4.37	8730
	24B	Lake	Out	Y	9/26/12	12:45 PM	grab	27.91	8.07	4.76	1293
	Reuse 1	Treatment Plant	Water Supply		9/25/12	3:00 PM	grab	30.37	6.9	6.49	1045
	Reuse 2	Port Royal Pipe	Water Supply		9/26/12	12:30 PM	grab	28.87	6.74	6.9	1054

Created By: SCA
 Checked By: TSK

Quarter 4

Quarter 4 Ambient Water Quality Parameters

<i>Parameter</i>		Type	In/Out	Flow	Date	Time	Sample Type	Temp	pH	DO	Conductivity
Units				(Y/N)				(°C)	(s.u.)	(mg/l)	(µS/cm)
Location											
Pump Stations	PW-Pump	Pump Station			12/6/2012	12:35 PM	bailer	26.36	7.07	3.76	3314
	14-Pump	Pump Station		Y	12/6/2012	10:13 AM	bailer	22.79	7.06	4.53	1148
	11-Pump	Pump Station		N	12/6/2012	11:03 AM	bailer	25.49	7.08	4.25	2084
Roaming	Reuse 3	Roaming		Y	12/6/2012	2:20 PM	grab	25.59	6.97	7.96	

Created By: SCA

Checked By: TSK

Appendix B
Analytical Lab Reports

Quarter 1

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Tampa
6712 Benjamin Road
Suite 100
Tampa, FL 33634
Tel: (813)885-7427

TestAmerica Job ID: 660-46954-1

Client Project/Site: City of Naples Stormwater

For:

AMEC Environment & Infrastructure, Inc.
222 Industrial Blvd., Suite 155
Naples, Florida 34104

Attn: Mr. Tom Bates



Authorized for release by:
5/4/2012 1:54:26 PM

Nancy Robertson
Project Manager II
nancy.robertson@testamericainc.com

LINKS

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results through
TotalAccess

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Qualifiers

Metals

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Job ID: 660-46954-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative
660-46954-1

Subcontract Reports are included at the back of this report

Receipt

The samples were received on 4/5/2012 8:30 AM; the samples arrived in good conditions, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.70 C, 3.00 C and 3.30 C.

Metals

No analytical or quality issues were noted.

General Chemistry

Method 351.2: The matrix spike(MS) recovery for batch 123178 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 353.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 123056 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. Batch: 123056

No other analytical or quality issues were noted.

Subcontract Reports are included at the back of this report



Detection Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Client Sample ID: 2B

Lab Sample ID: 660-46954-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	12		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.2		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.10		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	8.8		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.2		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 1B

Lab Sample ID: 660-46954-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	9.8		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.96		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.028		0.010	0.0044	mg/L	1		365.1	Total/NA
Nitrogen, Total	0.96		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 5B

Lab Sample ID: 660-46954-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	10		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	5.3		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.42		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	17		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	5.3		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 15B

Lab Sample ID: 660-46954-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	41		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.2		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.023		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	4.4		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.2		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 16B

Lab Sample ID: 660-46954-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.1	I	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.85		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.015		0.010	0.0044	mg/L	1		365.1	Total/NA
Nitrogen, Total	0.85		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: PW

Lab Sample ID: 660-46954-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.0		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.1		0.20	0.050	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.22	I	0.50	0.10	mg/L	1		353.2	Total/NA
Phosphorus	0.069		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	2.8		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.3		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Detection Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Client Sample ID: 19

Lab Sample ID: 660-46954-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.2	I	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	2.2		0.20	0.050	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.19	I	0.50	0.10	mg/L	1		353.2	Total/NA
Phosphorus	0.055		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	4.4		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	2.4		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 20B

Lab Sample ID: 660-46954-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.60	I	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.6		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.062		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	8.4		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.6		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 21B

Lab Sample ID: 660-46954-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.5		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.1		0.20	0.050	mg/L	1		351.2	Total/NA
Total Suspended Solids	2.0		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.1		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 22A

Lab Sample ID: 660-46954-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.0	I	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.70		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.056		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	4.4		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	0.70		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 22B

Lab Sample ID: 660-46954-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.1	I	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.85		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.0091	I	0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	1.2		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	0.85		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 6B

Lab Sample ID: 660-46954-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.63	I	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.83		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.048		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	2.4		1.0	1.0	mg/L	1		SM 2540D	Total/NA

Detection Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Client Sample ID: 6B (Continued)

Lab Sample ID: 660-46954-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrogen, Total	0.83		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 26B

Lab Sample ID: 660-46954-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	57		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.59		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.037		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	1.6		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	0.59	I	0.70	0.15	mg/L	1		Total Nitrogen	Total/NA



Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Client Sample ID: 2B

Lab Sample ID: 660-46954-1

Date Collected: 04/04/12 09:00

Matrix: Water

Date Received: 04/05/12 08:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	12		2.0	0.14	ug/L		04/10/12 08:45	04/12/12 15:55	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.2		0.20	0.050	mg/L		04/09/12 12:00	04/10/12 17:59	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/06/12 11:22	1
Phosphorus	0.10		0.010	0.0044	mg/L		04/12/12 10:02	04/14/12 09:33	1
Total Suspended Solids	8.8		1.0	1.0	mg/L			04/11/12 09:55	1
Nitrogen, Total	1.2		0.70	0.15	mg/L			04/11/12 10:41	1



Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Client Sample ID: 1B

Lab Sample ID: 660-46954-2

Date Collected: 04/04/12 09:15

Matrix: Water

Date Received: 04/05/12 08:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	9.8		2.0	0.14	ug/L		04/10/12 08:45	04/12/12 16:04	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.96		0.20	0.050	mg/L		04/09/12 12:00	04/10/12 18:01	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/06/12 11:23	1
Phosphorus	0.028		0.010	0.0044	mg/L		04/12/12 10:02	04/14/12 09:34	1
Total Suspended Solids	1.0	U	1.0	1.0	mg/L			04/11/12 09:55	1
Nitrogen, Total	0.96		0.70	0.15	mg/L			04/11/12 10:41	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Client Sample ID: 5B

Lab Sample ID: 660-46954-3

Date Collected: 04/04/12 09:55

Matrix: Water

Date Received: 04/05/12 08:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	10		2.0	0.14	ug/L		04/10/12 08:45	04/12/12 16:08	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	5.3		0.20	0.050	mg/L		04/09/12 12:00	04/10/12 18:02	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/06/12 11:24	1
Phosphorus	0.42		0.010	0.0044	mg/L		04/12/12 10:02	04/14/12 09:36	1
Total Suspended Solids	17		1.0	1.0	mg/L			04/11/12 09:55	1
Nitrogen, Total	5.3		0.70	0.15	mg/L			04/11/12 10:41	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Client Sample ID: 15B

Lab Sample ID: 660-46954-4

Date Collected: 04/04/12 10:15

Matrix: Water

Date Received: 04/05/12 08:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	41		2.0	0.14	ug/L		04/10/12 08:45	04/12/12 16:27	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.2		0.20	0.050	mg/L		04/09/12 12:00	04/10/12 18:09	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/06/12 11:26	1
Phosphorus	0.023		0.010	0.0044	mg/L		04/12/12 10:02	04/14/12 09:37	1
Total Suspended Solids	4.4		1.0	1.0	mg/L			04/11/12 09:55	1
Nitrogen, Total	1.2		0.70	0.15	mg/L			04/11/12 10:41	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Client Sample ID: 16B

Lab Sample ID: 660-46954-5

Date Collected: 04/04/12 10:45

Matrix: Water

Date Received: 04/05/12 08:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.1	I	2.0	0.14	ug/L		04/10/12 08:45	04/12/12 16:31	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.85		0.20	0.050	mg/L		04/09/12 13:30	04/10/12 18:47	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/06/12 11:29	1
Phosphorus	0.015		0.010	0.0044	mg/L		04/12/12 10:02	04/14/12 09:42	1
Total Suspended Solids	1.0	U	1.0	1.0	mg/L			04/11/12 09:55	1
Nitrogen, Total	0.85		0.70	0.15	mg/L			04/11/12 10:41	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Client Sample ID: PW

Lab Sample ID: 660-46954-6

Date Collected: 04/04/12 11:30

Matrix: Water

Date Received: 04/05/12 08:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.0		2.0	0.14	ug/L		04/10/12 08:45	04/12/12 16:36	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.1		0.20	0.050	mg/L		04/09/12 13:30	04/10/12 18:48	1
Nitrate Nitrite as N	0.22	I	0.50	0.10	mg/L			04/06/12 11:31	1
Phosphorus	0.069		0.010	0.0044	mg/L		04/12/12 10:02	04/14/12 09:43	1
Total Suspended Solids	2.8		1.0	1.0	mg/L			04/11/12 09:55	1
Nitrogen, Total	1.3		0.70	0.15	mg/L			04/11/12 10:41	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Client Sample ID: 19

Lab Sample ID: 660-46954-7

Date Collected: 04/04/12 12:20

Matrix: Water

Date Received: 04/05/12 08:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.2	I	2.0	0.14	ug/L		04/10/12 08:45	04/12/12 16:40	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	2.2		0.20	0.050	mg/L		04/09/12 13:30	04/10/12 18:49	1
Nitrate Nitrite as N	0.19	I	0.50	0.10	mg/L			04/09/12 13:05	1
Phosphorus	0.055		0.010	0.0044	mg/L		04/12/12 10:02	04/14/12 09:48	1
Total Suspended Solids	4.4		1.0	1.0	mg/L			04/11/12 09:55	1
Nitrogen, Total	2.4		0.70	0.15	mg/L			04/11/12 10:41	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Client Sample ID: 20B

Lab Sample ID: 660-46954-8

Date Collected: 04/04/12 12:40

Matrix: Water

Date Received: 04/05/12 08:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.60	I	2.0	0.14	ug/L		04/10/12 08:45	04/12/12 16:44	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.6		0.20	0.050	mg/L		04/09/12 13:30	04/10/12 18:51	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/09/12 13:06	1
Phosphorus	0.062		0.010	0.0044	mg/L		04/12/12 10:02	04/14/12 09:57	1
Total Suspended Solids	8.4		1.0	1.0	mg/L			04/11/12 09:55	1
Nitrogen, Total	1.6		0.70	0.15	mg/L			04/11/12 10:41	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Client Sample ID: 21B

Lab Sample ID: 660-46954-9

Date Collected: 04/04/12 13:00

Matrix: Water

Date Received: 04/05/12 08:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5		2.0	0.14	ug/L		04/10/12 08:45	04/12/12 16:49	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.1		0.20	0.050	mg/L		04/09/12 13:30	04/10/12 18:52	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/09/12 13:08	1
Phosphorus	0.0044	U	0.010	0.0044	mg/L		04/12/12 10:02	04/14/12 09:58	1
Total Suspended Solids	2.0		1.0	1.0	mg/L			04/11/12 09:55	1
Nitrogen, Total	1.1		0.70	0.15	mg/L			04/11/12 10:41	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Client Sample ID: 22A

Lab Sample ID: 660-46954-10

Date Collected: 04/04/12 13:20

Matrix: Water

Date Received: 04/05/12 08:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.0	I	2.0	0.14	ug/L		04/10/12 08:45	04/12/12 16:53	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.70		0.20	0.050	mg/L		04/09/12 13:30	04/10/12 18:53	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/09/12 13:09	1
Phosphorus	0.056		0.010	0.0044	mg/L		04/12/12 10:02	04/14/12 10:00	1
Total Suspended Solids	4.4		1.0	1.0	mg/L			04/11/12 09:55	1
Nitrogen, Total	0.70		0.70	0.15	mg/L			04/11/12 10:41	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Client Sample ID: 22B

Lab Sample ID: 660-46954-11

Date Collected: 04/04/12 13:45

Matrix: Water

Date Received: 04/05/12 08:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.1	I	2.0	0.14	ug/L		04/10/12 08:45	04/12/12 16:57	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.85		0.20	0.050	mg/L		04/09/12 13:30	04/10/12 18:55	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/09/12 13:10	1
Phosphorus	0.0091	I	0.010	0.0044	mg/L		04/12/12 10:02	04/14/12 10:01	1
Total Suspended Solids	1.2		1.0	1.0	mg/L			04/11/12 09:55	1
Nitrogen, Total	0.85		0.70	0.15	mg/L			04/11/12 10:41	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Client Sample ID: 6B

Lab Sample ID: 660-46954-12

Date Collected: 04/04/12 14:10

Matrix: Water

Date Received: 04/05/12 08:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.63	I	2.0	0.14	ug/L		04/10/12 08:45	04/12/12 17:01	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.83		0.20	0.050	mg/L		04/09/12 13:30	04/10/12 18:56	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/09/12 13:14	1
Phosphorus	0.048		0.010	0.0044	mg/L		04/12/12 10:02	04/14/12 10:03	1
Total Suspended Solids	2.4		1.0	1.0	mg/L			04/11/12 09:55	1
Nitrogen, Total	0.83		0.70	0.15	mg/L			04/11/12 10:50	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Client Sample ID: 26B

Lab Sample ID: 660-46954-13

Date Collected: 04/04/12 14:30

Matrix: Water

Date Received: 04/05/12 08:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	57		2.0	0.14	ug/L		04/10/12 08:45	04/12/12 17:06	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.59		0.20	0.050	mg/L		04/09/12 13:30	04/10/12 18:57	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/09/12 13:15	1
Phosphorus	0.037		0.010	0.0044	mg/L		04/12/12 10:02	04/14/12 10:07	1
Total Suspended Solids	1.6		1.0	1.0	mg/L			04/11/12 09:55	1
Nitrogen, Total	0.59	I	0.70	0.15	mg/L			04/11/12 10:50	1

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 180-32768/1-A
 Matrix: Water
 Analysis Batch: 33180

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 32768

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.14	U	2.0	0.14	ug/L		04/10/12 08:45	04/12/12 15:42	1

Lab Sample ID: LCS 180-32768/2-A
 Matrix: Water
 Analysis Batch: 33180

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 32768

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	250	243		ug/L		97	85 - 115

Lab Sample ID: LCSD 180-32768/3-A
 Matrix: Water
 Analysis Batch: 33180

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total Recoverable
 Prep Batch: 32768

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	250	237		ug/L		95	85 - 115	3	20

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 660-123117/10-A
 Matrix: Water
 Analysis Batch: 123176

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 123117

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.050	U	0.20	0.050	mg/L		04/09/12 12:00	04/10/12 17:29	1

Lab Sample ID: LCS 660-123117/11-A
 Matrix: Water
 Analysis Batch: 123176

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 123117

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	3.00	2.80		mg/L		93	90 - 110

Lab Sample ID: 660-46992-B-2-B MS
 Matrix: Water
 Analysis Batch: 123176

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 123117

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	0.050	U	3.00	2.78		mg/L		93	90 - 110

Lab Sample ID: 660-46992-B-2-C MSD
 Matrix: Water
 Analysis Batch: 123176

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 123117

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Kjeldahl	0.050	U	3.00	2.91		mg/L		97	90 - 110	5	30

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: MB 660-123125/3-A
Matrix: Water
Analysis Batch: 123178

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 123125

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.050	U	0.20	0.050	mg/L		04/09/12 13:30	04/10/12 18:22	1

Lab Sample ID: LCS 660-123125/4-A
Matrix: Water
Analysis Batch: 123178

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 123125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	3.00	2.77		mg/L		92	90 - 110

Lab Sample ID: 660-46956-A-2-B MS
Matrix: Water
Analysis Batch: 123178

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 123125

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	0.49		3.00	3.10	J3	mg/L		87	90 - 110

Lab Sample ID: 660-46956-A-2-C MSD
Matrix: Water
Analysis Batch: 123178

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 123125

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Kjeldahl	0.49		3.00	3.20		mg/L		90	90 - 110	3	30

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 660-123056/44
Matrix: Water
Analysis Batch: 123056

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/06/12 10:38	1

Lab Sample ID: LCS 660-123056/45
Matrix: Water
Analysis Batch: 123056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.967		mg/L		97	90 - 110

Lab Sample ID: 660-46951-A-6 MS
Matrix: Water
Analysis Batch: 123056

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.10	U J3	1.00	0.853	J3	mg/L		85	90 - 110

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 660-46951-A-6 MSD

Matrix: Water

Analysis Batch: 123056

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.10	U J3	1.00	0.843	J3	mg/L		84	90 - 110	1	30

Lab Sample ID: MB 660-123141/14

Matrix: Water

Analysis Batch: 123141

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/09/12 12:59	1

Lab Sample ID: LCS 660-123141/15

Matrix: Water

Analysis Batch: 123141

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.978		mg/L		98	90 - 110

Lab Sample ID: 660-46942-B-1 MS

Matrix: Water

Analysis Batch: 123141

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.10	U	1.00	0.942		mg/L		94	90 - 110

Lab Sample ID: 660-46942-B-1 MSD

Matrix: Water

Analysis Batch: 123141

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.10	U	1.00	0.941		mg/L		94	90 - 110	0	30

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 640-91539/3-A

Matrix: Water

Analysis Batch: 91605

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 91539

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.0044	U	0.010	0.0044	mg/L		04/12/12 10:02	04/14/12 09:06	1

Lab Sample ID: LCS 640-91539/5-A

Matrix: Water

Analysis Batch: 91605

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 91539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.100	0.0992		mg/L		99	90 - 110

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: LCSD 640-91539/6-A
Matrix: Water
Analysis Batch: 91605

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91539

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus	0.100	0.0999		mg/L		100	90 - 110	1	30

Lab Sample ID: 660-46954-6 MS
Matrix: Water
Analysis Batch: 91605

Client Sample ID: PW
Prep Type: Total/NA
Prep Batch: 91539

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.069		0.100	0.174		mg/L		105	90 - 110

Lab Sample ID: 660-46954-6 DU
Matrix: Water
Analysis Batch: 91605

Client Sample ID: PW
Prep Type: Total/NA
Prep Batch: 91539

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Phosphorus	0.069		0.0689		mg/L		0.3	30

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 660-123196/1
Matrix: Water
Analysis Batch: 123196

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1.0	U	1.0	1.0	mg/L			04/11/12 09:55	1

Lab Sample ID: LCS 660-123196/2
Matrix: Water
Analysis Batch: 123196

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	100	96.8		mg/L		97	80 - 120

Lab Sample ID: 660-46954-1 DU
Matrix: Water
Analysis Batch: 123196

Client Sample ID: 2B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	8.8		8.80		mg/L		0	20

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Metals

Prep Batch: 32768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46954-1	2B	Total Recoverable	Water	200.8	
660-46954-2	1B	Total Recoverable	Water	200.8	
660-46954-3	5B	Total Recoverable	Water	200.8	
660-46954-4	15B	Total Recoverable	Water	200.8	
660-46954-5	16B	Total Recoverable	Water	200.8	
660-46954-6	PW	Total Recoverable	Water	200.8	
660-46954-7	19	Total Recoverable	Water	200.8	
660-46954-8	20B	Total Recoverable	Water	200.8	
660-46954-9	21B	Total Recoverable	Water	200.8	
660-46954-10	22A	Total Recoverable	Water	200.8	
660-46954-11	22B	Total Recoverable	Water	200.8	
660-46954-12	6B	Total Recoverable	Water	200.8	
660-46954-13	26B	Total Recoverable	Water	200.8	
LCS 180-32768/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 180-32768/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
MB 180-32768/1-A	Method Blank	Total Recoverable	Water	200.8	

Analysis Batch: 33180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46954-1	2B	Total Recoverable	Water	200.8	32768
660-46954-2	1B	Total Recoverable	Water	200.8	32768
660-46954-3	5B	Total Recoverable	Water	200.8	32768
660-46954-4	15B	Total Recoverable	Water	200.8	32768
660-46954-5	16B	Total Recoverable	Water	200.8	32768
660-46954-6	PW	Total Recoverable	Water	200.8	32768
660-46954-7	19	Total Recoverable	Water	200.8	32768
660-46954-8	20B	Total Recoverable	Water	200.8	32768
660-46954-9	21B	Total Recoverable	Water	200.8	32768
660-46954-10	22A	Total Recoverable	Water	200.8	32768
660-46954-11	22B	Total Recoverable	Water	200.8	32768
660-46954-12	6B	Total Recoverable	Water	200.8	32768
660-46954-13	26B	Total Recoverable	Water	200.8	32768
LCS 180-32768/2-A	Lab Control Sample	Total Recoverable	Water	200.8	32768
LCSD 180-32768/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	32768
MB 180-32768/1-A	Method Blank	Total Recoverable	Water	200.8	32768

General Chemistry

Prep Batch: 91539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46954-1	2B	Total/NA	Water	365.2/365.3/365	
660-46954-2	1B	Total/NA	Water	365.2/365.3/365	
660-46954-3	5B	Total/NA	Water	365.2/365.3/365	
660-46954-4	15B	Total/NA	Water	365.2/365.3/365	
660-46954-5	16B	Total/NA	Water	365.2/365.3/365	
660-46954-6	PW	Total/NA	Water	365.2/365.3/365	
660-46954-6 DU	PW	Total/NA	Water	365.2/365.3/365	
660-46954-6 MS	PW	Total/NA	Water	365.2/365.3/365	
660-46954-7	19	Total/NA	Water	365.2/365.3/365	
660-46954-8	20B	Total/NA	Water	365.2/365.3/365	
660-46954-9	21B	Total/NA	Water	365.2/365.3/365	
660-46954-10	22A	Total/NA	Water	365.2/365.3/365	

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

General Chemistry (Continued)

Prep Batch: 91539 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46954-11	22B	Total/NA	Water	365.2/365.3/365	
660-46954-12	6B	Total/NA	Water	365.2/365.3/365	
660-46954-13	26B	Total/NA	Water	365.2/365.3/365	
LCS 640-91539/5-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
LCSD 640-91539/6-A	Lab Control Sample Dup	Total/NA	Water	365.2/365.3/365	
MB 640-91539/3-A	Method Blank	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 91605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46954-1	2B	Total/NA	Water	365.1	91539
660-46954-2	1B	Total/NA	Water	365.1	91539
660-46954-3	5B	Total/NA	Water	365.1	91539
660-46954-4	15B	Total/NA	Water	365.1	91539
660-46954-5	16B	Total/NA	Water	365.1	91539
660-46954-6	PW	Total/NA	Water	365.1	91539
660-46954-6 DU	PW	Total/NA	Water	365.1	91539
660-46954-6 MS	PW	Total/NA	Water	365.1	91539
660-46954-7	19	Total/NA	Water	365.1	91539
660-46954-8	20B	Total/NA	Water	365.1	91539
660-46954-9	21B	Total/NA	Water	365.1	91539
660-46954-10	22A	Total/NA	Water	365.1	91539
660-46954-11	22B	Total/NA	Water	365.1	91539
660-46954-12	6B	Total/NA	Water	365.1	91539
660-46954-13	26B	Total/NA	Water	365.1	91539
LCS 640-91539/5-A	Lab Control Sample	Total/NA	Water	365.1	91539
LCSD 640-91539/6-A	Lab Control Sample Dup	Total/NA	Water	365.1	91539
MB 640-91539/3-A	Method Blank	Total/NA	Water	365.1	91539

Analysis Batch: 123056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46951-A-6 MS	Matrix Spike	Total/NA	Water	353.2	
660-46951-A-6 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	
660-46954-1	2B	Total/NA	Water	353.2	
660-46954-2	1B	Total/NA	Water	353.2	
660-46954-3	5B	Total/NA	Water	353.2	
660-46954-4	15B	Total/NA	Water	353.2	
660-46954-5	16B	Total/NA	Water	353.2	
660-46954-6	PW	Total/NA	Water	353.2	
LCS 660-123056/45	Lab Control Sample	Total/NA	Water	353.2	
MB 660-123056/44	Method Blank	Total/NA	Water	353.2	

Prep Batch: 123117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46954-1	2B	Total/NA	Water	351.2	
660-46954-2	1B	Total/NA	Water	351.2	
660-46954-3	5B	Total/NA	Water	351.2	
660-46954-4	15B	Total/NA	Water	351.2	
660-46992-B-2-B MS	Matrix Spike	Total/NA	Water	351.2	
660-46992-B-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	
LCS 660-123117/11-A	Lab Control Sample	Total/NA	Water	351.2	
MB 660-123117/10-A	Method Blank	Total/NA	Water	351.2	

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

General Chemistry (Continued)

Prep Batch: 123125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46954-5	16B	Total/NA	Water	351.2	
660-46954-6	PW	Total/NA	Water	351.2	
660-46954-7	19	Total/NA	Water	351.2	
660-46954-8	20B	Total/NA	Water	351.2	
660-46954-9	21B	Total/NA	Water	351.2	
660-46954-10	22A	Total/NA	Water	351.2	
660-46954-11	22B	Total/NA	Water	351.2	
660-46954-12	6B	Total/NA	Water	351.2	
660-46954-13	26B	Total/NA	Water	351.2	
660-46956-A-2-B MS	Matrix Spike	Total/NA	Water	351.2	
660-46956-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	
LCS 660-123125/4-A	Lab Control Sample	Total/NA	Water	351.2	
MB 660-123125/3-A	Method Blank	Total/NA	Water	351.2	

Analysis Batch: 123141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46942-B-1 MS	Matrix Spike	Total/NA	Water	353.2	
660-46942-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	
660-46954-7	19	Total/NA	Water	353.2	
660-46954-8	20B	Total/NA	Water	353.2	
660-46954-9	21B	Total/NA	Water	353.2	
660-46954-10	22A	Total/NA	Water	353.2	
660-46954-11	22B	Total/NA	Water	353.2	
660-46954-12	6B	Total/NA	Water	353.2	
660-46954-13	26B	Total/NA	Water	353.2	
LCS 660-123141/15	Lab Control Sample	Total/NA	Water	353.2	
MB 660-123141/14	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 123176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46954-1	2B	Total/NA	Water	351.2	123117
660-46954-2	1B	Total/NA	Water	351.2	123117
660-46954-3	5B	Total/NA	Water	351.2	123117
660-46954-4	15B	Total/NA	Water	351.2	123117
660-46992-B-2-B MS	Matrix Spike	Total/NA	Water	351.2	123117
660-46992-B-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	123117
LCS 660-123117/11-A	Lab Control Sample	Total/NA	Water	351.2	123117
MB 660-123117/10-A	Method Blank	Total/NA	Water	351.2	123117

Analysis Batch: 123178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46954-5	16B	Total/NA	Water	351.2	123125
660-46954-6	PW	Total/NA	Water	351.2	123125
660-46954-7	19	Total/NA	Water	351.2	123125
660-46954-8	20B	Total/NA	Water	351.2	123125
660-46954-9	21B	Total/NA	Water	351.2	123125
660-46954-10	22A	Total/NA	Water	351.2	123125
660-46954-11	22B	Total/NA	Water	351.2	123125
660-46954-12	6B	Total/NA	Water	351.2	123125
660-46954-13	26B	Total/NA	Water	351.2	123125
660-46956-A-2-B MS	Matrix Spike	Total/NA	Water	351.2	123125
660-46956-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	123125

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

General Chemistry (Continued)

Analysis Batch: 123178 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-123125/4-A	Lab Control Sample	Total/NA	Water	351.2	123125
MB 660-123125/3-A	Method Blank	Total/NA	Water	351.2	123125

Analysis Batch: 123196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46954-1	2B	Total/NA	Water	SM 2540D	
660-46954-1 DU	2B	Total/NA	Water	SM 2540D	
660-46954-2	1B	Total/NA	Water	SM 2540D	
660-46954-3	5B	Total/NA	Water	SM 2540D	
660-46954-4	15B	Total/NA	Water	SM 2540D	
660-46954-5	16B	Total/NA	Water	SM 2540D	
660-46954-6	PW	Total/NA	Water	SM 2540D	
660-46954-7	19	Total/NA	Water	SM 2540D	
660-46954-8	20B	Total/NA	Water	SM 2540D	
660-46954-9	21B	Total/NA	Water	SM 2540D	
660-46954-10	22A	Total/NA	Water	SM 2540D	
660-46954-11	22B	Total/NA	Water	SM 2540D	
660-46954-12	6B	Total/NA	Water	SM 2540D	
660-46954-13	26B	Total/NA	Water	SM 2540D	
LCS 660-123196/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 660-123196/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 123203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46954-1	2B	Total/NA	Water	Total Nitrogen	
660-46954-2	1B	Total/NA	Water	Total Nitrogen	
660-46954-3	5B	Total/NA	Water	Total Nitrogen	
660-46954-4	15B	Total/NA	Water	Total Nitrogen	
660-46954-5	16B	Total/NA	Water	Total Nitrogen	
660-46954-6	PW	Total/NA	Water	Total Nitrogen	
660-46954-7	19	Total/NA	Water	Total Nitrogen	
660-46954-8	20B	Total/NA	Water	Total Nitrogen	
660-46954-9	21B	Total/NA	Water	Total Nitrogen	
660-46954-10	22A	Total/NA	Water	Total Nitrogen	
660-46954-11	22B	Total/NA	Water	Total Nitrogen	
660-46954-12	6B	Total/NA	Water	Total Nitrogen	
660-46954-13	26B	Total/NA	Water	Total Nitrogen	

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Client Sample ID: 2B

Date Collected: 04/04/12 09:00

Date Received: 04/05/12 08:30

Lab Sample ID: 660-46954-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			32768	04/10/12 08:45	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	33180	04/12/12 15:55	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91539	04/12/12 10:02	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91605	04/14/12 09:33	TDW	TAL TAL
Total/NA	Analysis	353.2		1	123056	04/06/12 11:22	KW	TAL TAM
Total/NA	Prep	351.2			123117	04/09/12 12:00	TO	TAL TAM
Total/NA	Analysis	351.2		1	123176	04/10/12 17:59	TO	TAL TAM
Total/NA	Analysis	SM 2540D		1	123196	04/11/12 09:55	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123203	04/11/12 10:41	RWF	TAL TAM

Client Sample ID: 1B

Date Collected: 04/04/12 09:15

Date Received: 04/05/12 08:30

Lab Sample ID: 660-46954-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			32768	04/10/12 08:45	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	33180	04/12/12 16:04	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91539	04/12/12 10:02	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91605	04/14/12 09:34	TDW	TAL TAL
Total/NA	Analysis	353.2		1	123056	04/06/12 11:23	KW	TAL TAM
Total/NA	Prep	351.2			123117	04/09/12 12:00	TO	TAL TAM
Total/NA	Analysis	351.2		1	123176	04/10/12 18:01	TO	TAL TAM
Total/NA	Analysis	SM 2540D		1	123196	04/11/12 09:55	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123203	04/11/12 10:41	RWF	TAL TAM

Client Sample ID: 5B

Date Collected: 04/04/12 09:55

Date Received: 04/05/12 08:30

Lab Sample ID: 660-46954-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			32768	04/10/12 08:45	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	33180	04/12/12 16:08	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91539	04/12/12 10:02	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91605	04/14/12 09:36	TDW	TAL TAL
Total/NA	Analysis	353.2		1	123056	04/06/12 11:24	KW	TAL TAM
Total/NA	Prep	351.2			123117	04/09/12 12:00	TO	TAL TAM
Total/NA	Analysis	351.2		1	123176	04/10/12 18:02	TO	TAL TAM
Total/NA	Analysis	SM 2540D		1	123196	04/11/12 09:55	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123203	04/11/12 10:41	RWF	TAL TAM

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Client Sample ID: 15B

Lab Sample ID: 660-46954-4

Date Collected: 04/04/12 10:15

Matrix: Water

Date Received: 04/05/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			32768	04/10/12 08:45	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	33180	04/12/12 16:27	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91539	04/12/12 10:02	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91605	04/14/12 09:37	TDW	TAL TAL
Total/NA	Analysis	353.2		1	123056	04/06/12 11:26	KW	TAL TAM
Total/NA	Prep	351.2			123117	04/09/12 12:00	TO	TAL TAM
Total/NA	Analysis	351.2		1	123176	04/10/12 18:09	TO	TAL TAM
Total/NA	Analysis	SM 2540D		1	123196	04/11/12 09:55	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123203	04/11/12 10:41	RWF	TAL TAM

Client Sample ID: 16B

Lab Sample ID: 660-46954-5

Date Collected: 04/04/12 10:45

Matrix: Water

Date Received: 04/05/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			32768	04/10/12 08:45	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	33180	04/12/12 16:31	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91539	04/12/12 10:02	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91605	04/14/12 09:42	TDW	TAL TAL
Total/NA	Analysis	353.2		1	123056	04/06/12 11:29	KW	TAL TAM
Total/NA	Prep	351.2			123125	04/09/12 13:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	123178	04/10/12 18:47	TO	TAL TAM
Total/NA	Analysis	SM 2540D		1	123196	04/11/12 09:55	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123203	04/11/12 10:41	RWF	TAL TAM

Client Sample ID: PW

Lab Sample ID: 660-46954-6

Date Collected: 04/04/12 11:30

Matrix: Water

Date Received: 04/05/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			32768	04/10/12 08:45	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	33180	04/12/12 16:36	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91539	04/12/12 10:02	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91605	04/14/12 09:43	TDW	TAL TAL
Total/NA	Analysis	353.2		1	123056	04/06/12 11:31	KW	TAL TAM
Total/NA	Prep	351.2			123125	04/09/12 13:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	123178	04/10/12 18:48	TO	TAL TAM
Total/NA	Analysis	SM 2540D		1	123196	04/11/12 09:55	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123203	04/11/12 10:41	RWF	TAL TAM

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Client Sample ID: 19

Lab Sample ID: 660-46954-7

Date Collected: 04/04/12 12:20

Matrix: Water

Date Received: 04/05/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			32768	04/10/12 08:45	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	33180	04/12/12 16:40	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91539	04/12/12 10:02	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91605	04/14/12 09:48	TDW	TAL TAL
Total/NA	Analysis	353.2		1	123141	04/09/12 13:05	KW	TAL TAM
Total/NA	Prep	351.2			123125	04/09/12 13:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	123178	04/10/12 18:49	TO	TAL TAM
Total/NA	Analysis	SM 2540D		1	123196	04/11/12 09:55	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123203	04/11/12 10:41	RWF	TAL TAM

Client Sample ID: 20B

Lab Sample ID: 660-46954-8

Date Collected: 04/04/12 12:40

Matrix: Water

Date Received: 04/05/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			32768	04/10/12 08:45	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	33180	04/12/12 16:44	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91539	04/12/12 10:02	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91605	04/14/12 09:57	TDW	TAL TAL
Total/NA	Analysis	353.2		1	123141	04/09/12 13:06	KW	TAL TAM
Total/NA	Prep	351.2			123125	04/09/12 13:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	123178	04/10/12 18:51	TO	TAL TAM
Total/NA	Analysis	SM 2540D		1	123196	04/11/12 09:55	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123203	04/11/12 10:41	RWF	TAL TAM

Client Sample ID: 21B

Lab Sample ID: 660-46954-9

Date Collected: 04/04/12 13:00

Matrix: Water

Date Received: 04/05/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			32768	04/10/12 08:45	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	33180	04/12/12 16:49	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91539	04/12/12 10:02	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91605	04/14/12 09:58	TDW	TAL TAL
Total/NA	Analysis	353.2		1	123141	04/09/12 13:08	KW	TAL TAM
Total/NA	Prep	351.2			123125	04/09/12 13:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	123178	04/10/12 18:52	TO	TAL TAM
Total/NA	Analysis	SM 2540D		1	123196	04/11/12 09:55	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123203	04/11/12 10:41	RWF	TAL TAM

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Client Sample ID: 22A

Lab Sample ID: 660-46954-10

Date Collected: 04/04/12 13:20

Matrix: Water

Date Received: 04/05/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			32768	04/10/12 08:45	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	33180	04/12/12 16:53	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91539	04/12/12 10:02	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91605	04/14/12 10:00	TDW	TAL TAL
Total/NA	Analysis	353.2		1	123141	04/09/12 13:09	KW	TAL TAM
Total/NA	Prep	351.2			123125	04/09/12 13:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	123178	04/10/12 18:53	TO	TAL TAM
Total/NA	Analysis	SM 2540D		1	123196	04/11/12 09:55	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123203	04/11/12 10:41	RWF	TAL TAM

Client Sample ID: 22B

Lab Sample ID: 660-46954-11

Date Collected: 04/04/12 13:45

Matrix: Water

Date Received: 04/05/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			32768	04/10/12 08:45	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	33180	04/12/12 16:57	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91539	04/12/12 10:02	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91605	04/14/12 10:01	TDW	TAL TAL
Total/NA	Analysis	353.2		1	123141	04/09/12 13:10	KW	TAL TAM
Total/NA	Prep	351.2			123125	04/09/12 13:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	123178	04/10/12 18:55	TO	TAL TAM
Total/NA	Analysis	SM 2540D		1	123196	04/11/12 09:55	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123203	04/11/12 10:41	RWF	TAL TAM

Client Sample ID: 6B

Lab Sample ID: 660-46954-12

Date Collected: 04/04/12 14:10

Matrix: Water

Date Received: 04/05/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			32768	04/10/12 08:45	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	33180	04/12/12 17:01	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91539	04/12/12 10:02	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91605	04/14/12 10:03	TDW	TAL TAL
Total/NA	Analysis	353.2		1	123141	04/09/12 13:14	KW	TAL TAM
Total/NA	Prep	351.2			123125	04/09/12 13:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	123178	04/10/12 18:56	TO	TAL TAM
Total/NA	Analysis	SM 2540D		1	123196	04/11/12 09:55	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123203	04/11/12 10:50	RWF	TAL TAM

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Client Sample ID: 26B

Lab Sample ID: 660-46954-13

Date Collected: 04/04/12 14:30

Matrix: Water

Date Received: 04/05/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			32768	04/10/12 08:45	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	33180	04/12/12 17:06	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91539	04/12/12 10:02	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91605	04/14/12 10:07	TDW	TAL TAL
Total/NA	Analysis	353.2		1	123141	04/09/12 13:15	KW	TAL TAM
Total/NA	Prep	351.2			123125	04/09/12 13:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	123178	04/10/12 18:57	TO	TAL TAM
Total/NA	Analysis	SM 2540D		1	123196	04/11/12 09:55	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123203	04/11/12 10:50	RWF	TAL TAM

Laboratory References:

= Sanders Laboratories Inc., 1050 Endeavor Ct., Nokomis, FL 34275

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427



Certification Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Tampa	Alabama	State Program	4	40610
TestAmerica Tampa	Florida	NELAC	4	E84282
TestAmerica Tampa	Georgia	State Program	4	905
TestAmerica Tampa	USDA	Federal		P330-11-00177
TestAmerica Pittsburgh	Arkansas DEQ	State Program	6	88-0690
TestAmerica Pittsburgh	California	NELAC	9	4224CA
TestAmerica Pittsburgh	Connecticut	State Program	1	PH-0688
TestAmerica Pittsburgh	Florida	NELAC	4	E871008
TestAmerica Pittsburgh	Illinois	NELAC	5	002602
TestAmerica Pittsburgh	Kansas	NELAC	7	E-10350
TestAmerica Pittsburgh	L-A-B	DoD ELAP		L2314
TestAmerica Pittsburgh	Louisiana	NELAC	6	04041
TestAmerica Pittsburgh	New Hampshire	NELAC	1	203011
TestAmerica Pittsburgh	New Jersey	NELAC	2	PA005
TestAmerica Pittsburgh	New York	NELAC	2	11182
TestAmerica Pittsburgh	North Carolina DENR	State Program	4	434
TestAmerica Pittsburgh	Pennsylvania	NELAC	3	02-00416
TestAmerica Pittsburgh	Pennsylvania	State Program	3	02-416
TestAmerica Pittsburgh	South Carolina	State Program	4	89014002
TestAmerica Pittsburgh	USDA	Federal		P330-10-00139
TestAmerica Pittsburgh	USDA	Federal		P-Soil-01
TestAmerica Pittsburgh	Utah	NELAC	8	STLP
TestAmerica Pittsburgh	Virginia	NELAC	3	460189
TestAmerica Pittsburgh	West Virginia DEP	State Program	3	142
TestAmerica Pittsburgh	Wisconsin	State Program	5	998027800
TestAmerica Tallahassee	Florida	NELAC	4	E81005
TestAmerica Tallahassee	Louisiana	NELAC	6	30663
TestAmerica Tallahassee	New Jersey	NELAC	2	FL012
TestAmerica Tallahassee	Oklahoma	State Program	6	9986
TestAmerica Tallahassee	Texas	NELAC	6	T104704459-11-2
TestAmerica Tallahassee	USDA	Federal		P330-08-00158

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL PIT
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL TAM
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL TAM
365.1	Phosphorus, Total	EPA	TAL TAL
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL TAM
Total Nitrogen	Nitrogen, Total	EPA	TAL TAM
Enterococcus and Fecal Coliform	Microbiology	NONE	

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

= Sanders Laboratories Inc., 1050 Endeavor Ct., Nokomis, FL 34275

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Sample Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-46954-1	2B	Water	04/04/12 09:00	04/05/12 08:30
660-46954-2	1B	Water	04/04/12 09:15	04/05/12 08:30
660-46954-3	5B	Water	04/04/12 09:55	04/05/12 08:30
660-46954-4	15B	Water	04/04/12 10:15	04/05/12 08:30
660-46954-5	16B	Water	04/04/12 10:45	04/05/12 08:30
660-46954-6	PW	Water	04/04/12 11:30	04/05/12 08:30
660-46954-7	19	Water	04/04/12 12:20	04/05/12 08:30
660-46954-8	20B	Water	04/04/12 12:40	04/05/12 08:30
660-46954-9	21B	Water	04/04/12 13:00	04/05/12 08:30
660-46954-10	22A	Water	04/04/12 13:20	04/05/12 08:30
660-46954-11	22B	Water	04/04/12 13:45	04/05/12 08:30
660-46954-12	6B	Water	04/04/12 14:10	04/05/12 08:30
660-46954-13	26B	Water	04/04/12 14:30	04/05/12 08:30



Laboratory Test Report

Lab Project #: F1204081

Page 1 of 11

All subsequent pages are identified by: F1204081. These pages may include, but are not limited to: Analytical Data, Chains of Custodys, Subcontracted Data and Case Narratives.

Questions regarding this report should be directed to your **Laboratory Contact:**

Client: Test America Tampa

Attn: Nancy Robertson
6712 Benjamin Rd Suite 10
Tampa, FL 33634
Phone: 813-885-7427
Fax:
E-mail:
Project Name: MACTEC

QUALIFIER DEFINITIONS

- B: Results based upon colony counts outside the acceptable range.
 - I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.
 - J: Estimated Value.
 - J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.
 - K: Off scale low, actual value is known to be less than the value given.
 - L: Off scale high, actual value is known to be greater than the value given.
 - Q: Sample held beyond acceptable holding time.
 - U: The compound was analyzed for, but not detected.
 - V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.
 - Y: The laboratory analysis was from an improperly preserved sample.
 - Z: Too many colonies were present for accurate counting.
- HACH results may not meet NELAC standards.

A statement of estimated uncertainty of results is available upon request.

Analytical results provided relate only to the samples received for this project.

Test results meet all the requirements of the NELAC standards, unless otherwise noted.

Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.

Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Laboratory PQL's are available upon request.

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Approved by:

Comments:


Radica Koutselas/QA Officer
Jeff Walsh/Project Manager

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Page: Page 1 of 5

Client Project: MACTEC

Lab Project: F1204081

Report Date: 04/11/12

<u>Lab ID</u>	<u>Sample Description</u>	<u>Matrix</u>	<u>Sample Type</u>	<u>Received Date/Time</u>	<u>Sample Date/Time</u>
F1204081-01	2B	Surface Water	GRAB	4/4/12 13:00	4/4/12 9:00

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	<u>Method</u>	<u>Batch #</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN	461		1	1	MPN/100ml	Enterolert	FB120406014	4/4/12 13:57	LV	E85457
Fecal Coliform, MF	180	B	90	90	CFU/100ml	SM9222D	FB120409017	4/4/12 14:06	LV	E85457

<u>Lab ID</u>	<u>Sample Description</u>	<u>Matrix</u>	<u>Sample Type</u>	<u>Received Date/Time</u>	<u>Sample Date/Time</u>
F1204081-02	1B	Surface Water	GRAB	4/4/12 13:00	4/4/12 9:15

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	<u>Method</u>	<u>Batch #</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN	3		1	1	MPN/100ml	Enterolert	FB120406014	4/4/12 13:57	LV	E85457
Fecal Coliform, MF	100	U	100	100	CFU/100ml	SM9222D	FB120409017	4/4/12 14:06	LV	E85457

<u>Lab ID</u>	<u>Sample Description</u>	<u>Matrix</u>	<u>Sample Type</u>	<u>Received Date/Time</u>	<u>Sample Date/Time</u>
F1204081-03	5B	Surface Water	GRAB	4/4/12 13:00	4/4/12 9:55

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	<u>Method</u>	<u>Batch #</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN	84		1	1	MPN/100ml	Enterolert	FB120406014	4/4/12 13:57	LV	E85457
Fecal Coliform, MF	270	B	90	90	CFU/100ml	SM9222D	FB120409017	4/4/12 14:06	LV	E85457

<u>Lab ID</u>	<u>Sample Description</u>	<u>Matrix</u>	<u>Sample Type</u>	<u>Received Date/Time</u>	<u>Sample Date/Time</u>
F1204081-04	15B	Surface Water	GRAB	4/4/12 13:00	4/4/12 10:15

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	<u>Method</u>	<u>Batch #</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN	46		1	1	MPN/100ml	Enterolert	FB120406014	4/4/12 13:57	LV	E85457
Fecal Coliform, MF	100	U	100	100	CFU/100ml	SM9222D	FB120409017	4/4/12 14:06	LV	E85457

<u>Lab ID</u>	<u>Sample Description</u>	<u>Matrix</u>	<u>Sample Type</u>	<u>Received Date/Time</u>	<u>Sample Date/Time</u>
F1204081-05	16B	Surface Water	GRAB	4/4/12 13:00	4/4/12 10:45

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	<u>Method</u>	<u>Batch #</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN	24		1	1	MPN/100ml	Enterolert	FB120406014	4/4/12 13:57	LV	E85457
Fecal Coliform, MF	90	B	90	90	CFU/100ml	SM9222D	FB120409017	4/4/12 14:06	LV	E85457

<u>Lab ID</u>	<u>Sample Description</u>	<u>Matrix</u>	<u>Sample Type</u>	<u>Received Date/Time</u>	<u>Sample Date/Time</u>
F1204081-06	PW	Surface Water	GRAB	4/4/12 16:00	4/4/12 11:30

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	<u>Method</u>	<u>Batch #</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN	870		1	1	MPN/100ml	Enterolert	FB120406013	4/4/12 16:10	LV	E85457

Nokomis Lab ~ 1050 Endeavor Ct. ~ Nokomis, FL 34275-3623 ~ Phone: 941-488-8103 ~ Fax: 941-484-6774 ~ DOH Certification # E84380
 Fort Myers Lab ~ 10090 Bavaria Road ~ Fort Myers, FL 33913 ~ Phone: 239-590-0337 ~ Fax: 239-590-0536 ~ DOH Certification # E85457

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Page: Page 2 of 5

Client Project: MACTEC

Lab Project: F1204081

Report Date: 04/11/12

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-06	PW	Surface Water	GRAB	4/4/12 16:00	4/4/12 11:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Fecal Coliform, MF	3400		100	100	CFU/100ml	SM9222D	FB120409014	4/4/12 16:30	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-07	19	Surface Water	GRAB	4/4/12 16:00	4/4/12 12:20

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	313		1	1	MPN/100ml	Enterolert	FB120406013	4/4/12 16:10	LV	E85457
Fecal Coliform, MF	180	B	90	90	CFU/100ml	SM9222D	FB120409014	4/4/12 16:30	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-08	20B	Surface Water	GRAB	4/4/12 16:00	4/4/12 12:40

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	29		1	1	MPN/100ml	Enterolert	FB120406013	4/4/12 16:10	LV	E85457
Fecal Coliform, MF	100	U	100	100	CFU/100ml	SM9222D	FB120409014	4/4/12 16:30	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-09	21B	Surface Water	GRAB	4/4/12 16:00	4/4/12 13:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	8		1	1	MPN/100ml	Enterolert	FB120406013	4/4/12 16:10	LV	E85457
Fecal Coliform, MF	360	B	90	90	CFU/100ml	SM9222D	FB120409014	4/4/12 16:30	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-10	22A	Surface Water	GRAB	4/4/12 16:00	4/4/12 13:20

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	69		1	1	MPN/100ml	Enterolert	FB120406013	4/4/12 16:10	LV	E85457
Fecal Coliform, MF	270	B	90	90	CFU/100ml	SM9222D	FB120409014	4/4/12 16:30	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-11	22B	Surface Water	GRAB	4/4/12 16:00	4/4/12 13:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	8		1	1	MPN/100ml	Enterolert	FB120406013	4/4/12 16:10	LV	E85457
Fecal Coliform, MF	100	U	100	100	CFU/100ml	SM9222D	FB120409014	4/4/12 16:30	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
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SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Page: Page 3 of 5

Client Project: MACTEC

Lab Project: F1204081

Report Date: 04/11/12

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time					
F1204081-12	6B	Surface Water	GRAB	4/4/12 16:00	4/4/12 14:10					
Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	9		1	1	MPN/100ml	Enterolert	FB120406013	4/4/12 16:10	LV	E85457
Fecal Coliform, MF	100	U	100	100	CFU/100ml	SM9222D	FB120409014	4/4/12 16:30	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time					
F1204081-13	26B	Surface Water	GRAB	4/4/12 16:00	4/4/12 14:30					
Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	68		1	1	MPN/100ml	Enterolert	FB120406013	4/4/12 16:10	LV	E85457
Fecal Coliform, MF	180	B	90	90	CFU/100ml	SM9222D	FB120409014	4/4/12 16:30	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time					
F1204081-14	GORDON DR	Surface Water	GRAB	4/5/12 12:30	4/5/12 8:45					
Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	500		100	100	MPN/100ml	Enterolert	FB120410005	4/5/12 13:50	LV	E85457
Fecal Coliform, MF	43000		1000	1000	CFU/100ml	SM9222D	FB120410002	4/5/12 13:15	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time					
F1204081-15	14B	Surface Water	GRAB	4/5/12 12:30	4/5/12 9:05					
Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	372		1	1	MPN/100ml	Enterolert	FB120410005	4/5/12 13:50	LV	E85457
Fecal Coliform, MF	100	U	100	100	CFU/100ml	SM9222D	FB120410002	4/5/12 13:15	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time					
F1204081-16	14 PUMP	Surface Water	GRAB	4/5/12 12:30	4/5/12 9:30					
Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	300		100	100	MPN/100ml	Enterolert	FB120410005	4/5/12 13:50	LV	E85457
Fecal Coliform, MF	4000		100	100	CFU/100ml	SM9222D	FB120410002	4/5/12 13:15	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time					
F1204081-17	4TH AVE	Surface Water	GRAB	4/5/12 12:30	4/5/12 10:00					
Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	6		1	1	MPN/100ml	Enterolert	FB120410005	4/5/12 13:50	LV	E85457
Fecal Coliform, MF	100	U	100	100	CFU/100ml	SM9222D	FB120410002	4/5/12 13:15	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
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CHAIN-OF-CUSTODY RECORD

PROJECT # FL20A081

Page _____ of _____

5/4/2012

Client TEST AMERICA
Address TAMPA

Report To: TEST AMERICA TAMPA
Bill To: SAME (MAYOR ROBERTSON)
P.O. # _____

Project Name: NAPLES STORM WATER
Project Location: _____
Customer Type: FOR AMEC

Phone _____ Fax _____

Preservative: HCl = H, HNO₃ = N, Na₂S₂O₈ = ST,
H₂O₂ = S, NaOH = SH, NH₄Cl = NH

Kit # _____
REQUESTED DUE DATE: 4/16/12

Sampled By (PRINT) Tom Bates / SA AMEC

Sampler Signature [Signature]

Matrix	SAMPLE DESCRIPTION	Sample			PRESERVATIVES		ANALYSES REQUEST		RECAL ENTER OC	Sample ID #
		DATE	TIME	TYPE	pH	ICE				
SM	2 B	4/11/12	900	G	✓		✓	✓		-01A
SM	1 B		915		✓		✓	✓		-02A
SM	5 B		955		✓		✓	✓		-03A
SM	13 B		1015		✓		✓	✓		-04A
SM	16 B		1045		✓		✓	✓		-05A
Bottle Lot # _____		RELINQUISHED BY / AFFILIATION <u>T. Bates / AMEC</u>		DATE	TIME	ACCEPTED BY / AFFILIATION <u>[Signature]</u>	DATE	TIME		
COMMENTS: _____		OKAY TO RUN AS IS... _____		CLIENT INITIAL: <u>[Signature]</u>		SAMPLES DYNICE Yes No				



CHAIN-OF-CUSTODY RECORD

PROJECT # E1204061

Page 1 of 1

5/4/2012

Client TEST AMERICA
Address TAMPA
(NANCY ROBERTSON)
Phone _____ Fax _____

Report To: TEST AMERICA
Bill To: STATE
P.O. # _____
Preservative: HCl = H, HNO₃ = N, Na₂S₂O₃ = ST,
H₂SO₄ = S, NaOH = SH, NH₄Cl = NH

Project Name: MARIS STORM WATER
Project Location: _____
Customer Type: (FOR AMEC)
Kit # _____
REQUESTED DUE DATE: 4/16/12

Sampled By (PRINT)

Sampler Signature

Matrix PW SAMPLE DESCRIPTION

SW PW DATE TIME TYPE

Matrix	DATE	TIME	TYPE	pH	ICE	PRESERVATIVES	ANALYSES REQUEST	Sample ID #
	4/11/12	1130	Gab				FECAL G/ENTERO C	-06A
	19	1220						-07A
	20B	1240						-08A
	21B	1300						-09A
	22A	1320						-10A
	22B	1345						-11A
	6B	1410						-12A
	26B	1430						-13A

RELINQUISHED BY / AFFILIATION: Sam Arden / AMEC DATE TIME: 4/9/12 1600
ACCEPTED BY / AFFILIATION: M. Williams / M. Williams DATE TIME: 4/12/12 1600

COMMENTS: _____
OKAY TO RUN AS IS...
CLIENT INITIAL: _____
SAMPLES ON ICE Yes No

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica West Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

TestAmerica Job ID: G2D070425
Client Project/Site: 660-46954
Client Project Description: 660-46954

For:
TestAmerica Tampa
6712 Benjamin Road STE 100
Tampa, FL 33634

Attn: Nancy Robertson



Authorized for release by:
5/3/2012 10:56:39 AM

Jeremy Sadler
Project Manager
jeremy.sadler@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

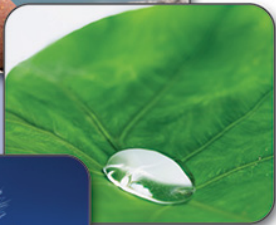


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Definitions/Glossary

Client: TestAmerica Tampa
Project/Site: 660-46954

TestAmerica Job ID: G2D070425

Qualifiers

HPLC

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
*	Surrogate recovery is outside stated control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

TestAmerica West Sacramento Project Number G2D070425

WATER, 1694, Sucralose

Samples: 1, 2

The samples were re-extracted outside of hold and analyzed at a dilution due to matrix interference.

The percent difference values for analytes listed below are above the method acceptance limit in the continuing calibration standard, indicating a high bias. This standard was analyzed prior to the associated samples. As the associated samples are non-detect and there is a potential for a high bias, there is no adverse impact on the data quality.

Sample: 2

The surrogate recovery for Sucralose-d6 is less than the method recommended goal. This sample is impacted by matrix interference.

There were no other anomalies associated with this project.



Detection Summary

Client: TestAmerica Tampa
Project/Site: 660-46954

TestAmerica Job ID: G2D070425

Client Sample ID: PW(660-46954-6)

Lab Sample ID: G2D070425001

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Caffeine	14	I	49	13	ng/L	0.98		1694	Total

Client Sample ID: 22A(660-46954-10)

Lab Sample ID: G2D070425002

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Caffeine	90		50	13	ng/L	0.99		1694	Total

Client Sample Results

Client: TestAmerica Tampa
Project/Site: 660-46954

TestAmerica Job ID: G2D070425

Client Sample ID: PW(660-46954-6)

Lab Sample ID: G2D070425001

Date Collected: 04/04/12 11:30

Matrix: Water

Date Received: 04/07/12 09:10

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caffeine	14	I	49	13	ng/L		04/10/12 15:45	04/14/12 07:47	0.98
Sucralose	ND		10000	5000	ng/L		04/19/12 14:30	04/25/12 00:56	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3-Caffeine	68		25 - 150				04/10/12 15:45	04/14/12 07:47	0.98
Sucralose-d6	25		25 - 150				04/19/12 14:30	04/25/12 00:56	20

Client Sample ID: 22A(660-46954-10)

Lab Sample ID: G2D070425002

Date Collected: 04/04/12 13:20

Matrix: Water

Date Received: 04/07/12 09:10

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caffeine	90		50	13	ng/L		04/10/12 15:45	04/14/12 08:18	0.99
Sucralose	ND		10000	5000	ng/L		04/19/12 14:30	04/25/12 01:27	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3-Caffeine	34		25 - 150				04/10/12 15:45	04/14/12 08:18	0.99
Sucralose-d6	18	*	25 - 150				04/19/12 14:30	04/25/12 01:27	20

Surrogate Summary

Client: TestAmerica Tampa
Project/Site: 660-46954

TestAmerica Job ID: G2D070425

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Matrix: Water

Prep Type: Total

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	¹³ C3-Caffein (25-150)	
G2D070425001	PW(660-46954-6)	68	
G2D070425002	22A(660-46954-10)	34	
G2D100000115B	Method Blank	74	
G2D100000115C	Lab Control Sample	75	

Surrogate Legend

¹³C3-Caffeine = ¹³C3-Caffeine

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Matrix: Water

Prep Type: Total

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Sucralose-d (25-150)	
G2D070425001	PW(660-46954-6)	25	
G2D070425002	22A(660-46954-10)	18 *	
G2D190000139B	Method Blank	93	
G2D190000139C	Lab Control Sample	117	

Surrogate Legend

Sucralose-d6 = Sucralose-d6

QC Sample Results

Client: TestAmerica Tampa
Project/Site: 660-46954

TestAmerica Job ID: G2D070425

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Lab Sample ID: G2D100000115B
Matrix: Water
Analysis Batch: 2101115

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 2101115_P

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Caffeine	ND		50	13	ng/L		04/10/12 15:45	04/14/12 05:14	1
Surrogate	MB MB		Limits	LCS	LCS	Unit	Prepared	Analyzed	Dil Fac
%Recovery	Qualifier								
13C3-Caffeine	74		25 - 150				04/10/12 15:45	04/14/12 05:14	1

Lab Sample ID: G2D100000115C
Matrix: Water
Analysis Batch: 2101115

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 2101115_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.		
							Limits		
Caffeine	100	111		ng/L		111	60 - 140		
Surrogate	LCS LCS		Limits	LCS	LCS	Unit	Prepared	Analyzed	Dil Fac
%Recovery	Qualifier								
13C3-Caffeine	75		25 - 150						

Lab Sample ID: G2D190000139B
Matrix: Water
Analysis Batch: 2110139

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 2110139_P

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sucralose	ND		500	250	ng/L		04/19/12 14:30	04/24/12 23:55	1
Surrogate	MB MB		Limits	LCS	LCS	Unit	Prepared	Analyzed	Dil Fac
%Recovery	Qualifier								
Sucralose-d6	93		25 - 150				04/19/12 14:30	04/24/12 23:55	1

Lab Sample ID: G2D190000139C
Matrix: Water
Analysis Batch: 2110139

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 2110139_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.		
							Limits		
Sucralose	500	622		ng/L		124	60 - 140		
Surrogate	LCS LCS		Limits	LCS	LCS	Unit	Prepared	Analyzed	Dil Fac
%Recovery	Qualifier								
Sucralose-d6	117		25 - 150						

QC Association Summary

Client: TestAmerica Tampa
Project/Site: 660-46954

TestAmerica Job ID: G2D070425

HPLC

Analysis Batch: 2101115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G2D070425001	PW(660-46954-6)	Total	Water	1694	
G2D070425002	22A(660-46954-10)	Total	Water	1694	
G2D100000115B	Method Blank	Total	Water	1694	
G2D100000115C	Lab Control Sample	Total	Water	1694	

Analysis Batch: 2110139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G2D070425001	PW(660-46954-6)	Total	Water	1694	
G2D070425002	22A(660-46954-10)	Total	Water	1694	
G2D190000139B	Method Blank	Total	Water	1694	
G2D190000139C	Lab Control Sample	Total	Water	1694	

Prep Batch: 2101115_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G2D070425001	PW(660-46954-6)	Total	Water	EXTRACTION, SOLID PHASE	
G2D070425002	22A(660-46954-10)	Total	Water	EXTRACTION, SOLID PHASE	
G2D100000115B	Method Blank	Total	Water	EXTRACTION, SOLID PHASE	
G2D100000115C	Lab Control Sample	Total	Water	EXTRACTION, SOLID PHASE	

Prep Batch: 2110139_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G2D070425001	PW(660-46954-6)	Total	Water	EXTRACTION, SOLID PHASE	
G2D070425002	22A(660-46954-10)	Total	Water	EXTRACTION, SOLID PHASE	
G2D190000139B	Method Blank	Total	Water	EXTRACTION, SOLID PHASE	
G2D190000139C	Lab Control Sample	Total	Water	EXTRACTION, SOLID PHASE	

Lab Chronicle

Client: TestAmerica Tampa
Project/Site: 660-46954

TestAmerica Job ID: G2D070425

Client Sample ID: PW(660-46954-6)

Lab Sample ID: G2D070425001

Date Collected: 04/04/12 11:30

Matrix: Water

Date Received: 04/07/12 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EXTRACTION, SOLID PHASE			2101115_P	04/10/12 15:45	HJA	TAL WSC
Total	Analysis	1694		0.98	2101115	04/14/12 07:47	NS	TAL WSC
Total	Prep	EXTRACTION, SOLID PHASE			2110139_P	04/19/12 14:30	JR	TAL WSC
Total	Analysis	1694		20	2110139	04/25/12 00:56	NS	TAL WSC

Client Sample ID: 22A(660-46954-10)

Lab Sample ID: G2D070425002

Date Collected: 04/04/12 13:20

Matrix: Water

Date Received: 04/07/12 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EXTRACTION, SOLID PHASE			2101115_P	04/10/12 15:45	HJA	TAL WSC
Total	Analysis	1694		0.99	2101115	04/14/12 08:18	NS	TAL WSC
Total	Prep	EXTRACTION, SOLID PHASE			2110139_P	04/19/12 14:30	JR	TAL WSC
Total	Analysis	1694		20	2110139	04/25/12 01:27	NS	TAL WSC

Laboratory References:

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

Client: TestAmerica Tampa
 Project/Site: 660-46954

TestAmerica Job ID: G2D070425

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica West Sacramento	A2LA	DoD ELAP		2928-01
TestAmerica West Sacramento	Alaska (UST)	State Program	10	UST-055
TestAmerica West Sacramento	Arizona	State Program	9	AZ0708
TestAmerica West Sacramento	Arkansas DEQ	State Program	6	88-0691
TestAmerica West Sacramento	California	NELAC	9	1119CA
TestAmerica West Sacramento	Colorado	State Program	8	N/A
TestAmerica West Sacramento	Connecticut	State Program	1	PH-0691
TestAmerica West Sacramento	Florida	NELAC	4	E87570
TestAmerica West Sacramento	Georgia	State Program	4	960
TestAmerica West Sacramento	Guam	State Program	9	N/A
TestAmerica West Sacramento	Hawaii	State Program	9	N/A
TestAmerica West Sacramento	Illinois	NELAC	5	200060
TestAmerica West Sacramento	Kansas	NELAC	7	E-10375
TestAmerica West Sacramento	Louisiana	NELAC	6	30612
TestAmerica West Sacramento	Michigan	State Program	5	9947
TestAmerica West Sacramento	Nevada	State Program	9	CA44
TestAmerica West Sacramento	New Jersey	NELAC	2	CA005
TestAmerica West Sacramento	New Mexico	State Program	6	N/A
TestAmerica West Sacramento	New York	NELAC	2	11666
TestAmerica West Sacramento	Northern Mariana Islands	State Program	9	MP0007
TestAmerica West Sacramento	Oregon	NELAC	10	CA200005
TestAmerica West Sacramento	Pennsylvania	NELAC	3	68-01272
TestAmerica West Sacramento	South Carolina	State Program	4	87014
TestAmerica West Sacramento	Texas	NELAC	6	T104704399-08-TX
TestAmerica West Sacramento	US Fish & Wildlife	Federal		LE148388-0
TestAmerica West Sacramento	USDA	Federal		P330-09-00055
TestAmerica West Sacramento	Utah	NELAC	8	QUAN1
TestAmerica West Sacramento	Virginia	State Program	3	178
TestAmerica West Sacramento	Washington	State Program	10	C581
TestAmerica West Sacramento	West Virginia	State Program	3	9930C
TestAmerica West Sacramento	West Virginia DEP	State Program	3	334
TestAmerica West Sacramento	Wisconsin	State Program	5	998204680
TestAmerica West Sacramento	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.



Method Summary

Client: TestAmerica Tampa
Project/Site: 660-46954

TestAmerica Job ID: G2D070425

Method	Method Description	Protocol	Laboratory
1694	Pharmaceuticals, HPLC/MS/MS (1694)	CFR136A	TAL WSC

Protocol References:

CFR136A = CFR136A

Laboratory References:

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Sample Summary

Client: TestAmerica Tampa
Project/Site: 660-46954

TestAmerica Job ID: G2D070425

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
G2D070425001	PW(660-46954-6)	Water	04/04/12 11:30	04/07/12 09:10
G2D070425002	22A(660-46954-10)	Water	04/04/12 13:20	04/07/12 09:10



Chain of Custody Record

Client Information (Sub Contract Lab) Client Contact: Robertson, Nancy Shipping/Receiving: nancy.robertson@testamericainc.com Company: TestAmerica Laboratories, Inc.		Lab P#: 66003057 Project #: 66003057 SSOW#:		Carrier Tracking No(s): Job #: 660-46954-1		COC No: 660-44366.1 Page: 1 of 1	
Address: 880 Riverside Parkway, City: West Sacramento State, Zip: CA, 95605 Phone: 916-373-5600(Tel) Email:		Due Date Requested: 4/13/2012 TAT Requested (days):		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		Preservation Codes: M - Hexane N - None O - AsNaCO3 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecylsulfate U - Acetone V - pH 4-5 W - MCAA Z - other (specify)	
Project Name: City of Naples Stormwater Site:		PO #: 916-373-5600(Tel) W/C #:		Analysis Requested		Total Number of Containers	
Sample Identification - Client ID (Lab ID) PW (660-46954-6) 22A (660-46954-10)		Sample Date 4/4/12 4/4/12		Sample Time 11:30 Eastern 13:20 Eastern		Sample Type (C=Comp, G=grab) Water Water	
Matrix (W=water, S=solid, O=soil/slush, BT=Tissue, AA=)		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Special Instructions/Note:	
SUBCONTRACT/ 1694 Caffeine, Sucralose		X		X		Special Instructions/Note:	
Possible Hazard Identification Unconfirmed		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:		Special Instructions/Note:	
Deliverable Requested: I, II, III, IV, Other (specify)		Date:		Date of Shipment:		Date/Time: 4/18/12 1718 Date/Time: 4/18/12 1240	
Relinquished by: Christy Edwards Relinquished by:		Received by: ADD Received by:		Date/Time:		Date/Time:	
Relinquished by:		Received by:		Date/Time:		Date/Time:	
Custody Seals Intact: Yes Yes No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Company: TALWS Company:	



LOT RECEIPT CHECKLIST TestAmerica West Sacramento

CLIENT TAL TAMPA PM JS

LOT# (QUANTIMS ID) G2D070425 QUOTE# 35474 LOCATION W23A

DATE RECEIVED 4/7/12 TIME RECEIVED 9:10 Checked (✓)

DELIVERED BY FEDEX ON TRAC OTHER

GOLDENSTATE UPS EZ PARCEL

TAL COURIER TAL SF CLIENT

SHIPPING CONTAINER(S) TAL CLIENT N/A

MULTI-COOLER(S) (If checked see multi-cooler form)

SINGLE COOLER INFORMATION N/A

CUSTODY SEAL STATUS INTACT BROKEN N/A

CUSTODY SEAL #(S) NA

COC #(S) 660-43962.1

TEMPERATURE BLANK Observed: NA Corrected: NA

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: 2.8,2.9,2.0 Average 2.5 Corrected Average 2.1

LABORATORY THERMOMETER ID:

IR UNIT: #4 #5 OTHER

CH 4/7/12
Initials Date

=====

pH MEASURED YES ANOMALY N/A

LABELLED BY..... CH

LOGGED IN BY..... CH

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM N/A

VOA-ENCORES N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES N/A

CLOUSEAU TEMPERATURE EXCEEDED (0 °C – 6 °C)^{*1} N/A

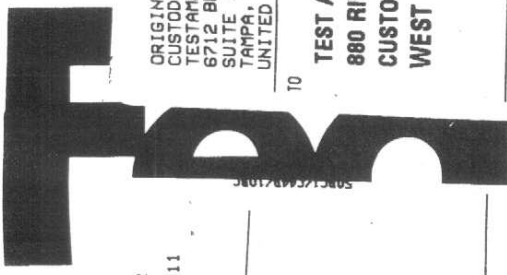
WET ICE BLUE ICE GEL PACK NO COOLING AGENTS USED

CH 4/7/12
Initials Date

Notes Additional sample volume was received on 4/19/12 at 1.1 degree C. JS 4/19/12

*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.





ORIGIN ID: TPFA (813) 885-7427
 CUSTODY
 TESTAMERICA TAMPA
 6712 BENJAMIN ROAD
 SUITE 100
 TAMPA, FL 33634
 UNITED STATES US

SHIP DATE: 06APR12
 ACT WGT: 40.0 LB
 CAD: 842522/CAFE2511
 DIMS: 12x11x9 IN
 BILL RECIPIENT

TO

TEST AMERICA/WEST SACRAMENTO
880 RIVERSIDE PARKWAY
CUSTODY

WEST SACRAMENTO CA 956051500
 (916) 373-5600

DEPT: WORKSHARE SAMPLES



FedEx Express

SATURDAY ### A1
 PRIORITY OVERNIGHT

TRK# 5269 1727 4424

XO BLUA

95605
 CA - US SMF



Part # 156148-434 RIT2 07/11

Part # 156148-434 RIT2 07/11

ORIGIN ID: TPFA (813) 885-7427

SHIP DATE: 06APR12
 ACT WGT: 40.0 LB
 CAD: 842522/CAFE2511
 DIMS: 12x11x9 IN

TO

TEST AMERICA/WEST SACRAMENTO
880 RIVERSIDE PARKWAY
CUSTODY

WEST SACRAMENTO, CA 956051500
 (916) 373-5600

(US)

FedEx Express



Trk# 5269 1727 4424

PRIORITY OVERNIGHT



880 RIVERSIDE PARKWAY

PLACE THIS LABEL ON PACKAGE
 NEXT TO THE SHIPPING LABEL

ALIGN OPEN END OF FEDEX AIRBILL POUCH HERE

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

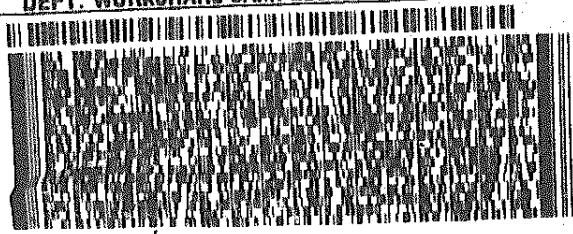
ORIGIN ID: TPFA (013) 885-7427
CUSTODY
TESTAMERICA TAMPA
6712 BENJAMIN ROAD
SUITE 100
TAMPA, FL 33634
UNITED STATES US

SHIP DATE: 18APR12
ACTWGT: 45.6 LB
CAD: 842522/CAFE2511
DIMS: 24x14x13 IN
BILL RECIPIENT

TO

TEST AMERICA/SACRAMENTO
880 RIVERSIDE PARKWAY
CUSTODY
WEST SACRAMENTO CA 956051500
(910) 373-5800
DEPT: WORKSHARE SAMPLES

CA001/5440/100R



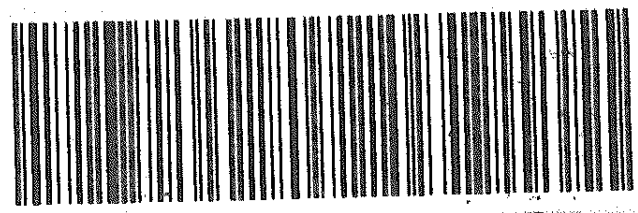
TRK# 5269 1727 4972
0201

THU - 19 APR A1
STANDARD OVERNIGHT

XH BLUA

95605
CA-US SMF

Pat # 156148-434 RIT2 0711



1.5, 1.4, 1.7



Chain of Custody Record

Client Information
 Client Contact: Mr. Tom Bates
 Company: AMEC E&I, Inc
 Address: 222 Industrial Blvd., Suite 155
 City: Naples
 State, Zip: FL, 34104
 Phone: 239-564-8483(Tel)
 Email: tbates@amec.com
 Project Name: City of Naples Stormwater
 Site: SSSOW#:
 Lab P#: Robertson, Nancy
 E-Mail: nancy.robertson@testamericainc.com
 Carrier Tracking No(s):
 COC No: 660-40477-131802
 Page: 2 of 2
 Job #: TR

Analysis Requested
 Due Date Requested:
 TAT Requested (days):
 PO #:
 W/O #:
 Project #:
 SSSOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Overwater)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Special Instructions/Note:
6B	4/4/12	1410		Water	X	X	200.8 - Copper	Total Number of containers
26B	4/4/12	1430		Water	X	X	365.1 - Phosphorus	
				Water	X	X	351.2, 353.2	(No Caffeine)
				Water	X	X	2540D - Total Suspended Solids	
				Water	X	X	SUBCONTRACT - Enterococcus and Fecal Coliform	Special Instructions/Note: Preservation Codes: A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amnchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4.5 Z - other (specify) Other:
				Water	X	X	SUBCONTRACT - 1694 Caffeine, Sucralose	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)
 Empty Kit Relinquished by: Date: Method of Shipment:
 Relinquished by: Date/Time: Company:
 Relinquished by: Date/Time: Company:
 Relinquished by: Date/Time: Company:
 Relinquished by: Date/Time: Company:
 Custody Seals Intact: Custody Seal No.:
 A Yes A No
 Received by: Date/Time: Company:
 Received by: Date/Time: Company:
 Received by: Date/Time: Company:
 Received by: Date/Time: Company:
 Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-46954-1

Login Number: 46954

List Number: 1

Creator: McNulty, Carol

List Source: TestAmerica Tampa

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	3.3, 2.7, 3.0 deg C Cu-07
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-46954-1

Login Number: 46954

List Number: 1

Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

List Creation: 04/06/12 12:12 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-46954-1

Login Number: 46954

List Number: 1

Creator: Mitchell, Travis X

List Source: TestAmerica Tallahassee

List Creation: 04/06/12 02:05 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Tampa
6712 Benjamin Road
Suite 100
Tampa, FL 33634
Tel: (813)885-7427

TestAmerica Job ID: 660-46977-1

Client Project/Site: City of Naples Stormwater

For:

AMEC Environment & Infrastructure, Inc.
222 Industrial Blvd., Suite 155
Naples, Florida 34104

Attn: Mr. Tom Bates



Authorized for release by:
5/4/2012 2:50:18 PM

Nancy Robertson
Project Manager II
nancy.robertson@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Qualifiers

Metals

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
V	Indicates the analyte was detected in both the sample and the associated method blank.

General Chemistry

Qualifier	Qualifier Description
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Job ID: 660-46977-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative
660-46977-1

Subcontract Reports are included at the back of this report

Receipt

The samples were received on 4/6/2012 9:00 AM; the samples arrived in good conditions, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.00 C, 2.10 C and 3.50 C.

Metals

Method 200.8: The method blank associated with batch 32810 had an estimated result for copper at the MDL. The sample results are 10X the method blank. The associated samples are flagged with V.

No other analytical or quality issues were noted.

General Chemistry

Method 351.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 123283 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. Analyst failed to spike samples.

Method 365.1: The matrix spike (MS) recoveries for batch 640-91605 sample 660-46977-1 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. The sample is flagged with J3.

No other analytical or quality issues were noted.



Detection Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Client Sample ID: Gordon Dr

Lab Sample ID: 660-46977-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	11	V	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	2.0		0.20	0.050	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	1.2		0.50	0.10	mg/L	1		353.2	Total/NA
Phosphorus	0.56	J3	0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	12		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	3.2		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 14B

Lab Sample ID: 660-46977-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.4	V	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.76		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.89		0.020	0.0088	mg/L	2		365.1	Total/NA
Total Suspended Solids	7.2		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	0.76		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 14 Pump

Lab Sample ID: 660-46977-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.9	V	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.88		0.20	0.050	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.18	I	0.50	0.10	mg/L	1		353.2	Total/NA
Phosphorus	0.83		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	4.8		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.1		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 4th Ave

Lab Sample ID: 660-46977-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.9	V	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.31		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.057		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	1.2		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	0.31	I	0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 11A

Lab Sample ID: 660-46977-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.9	V	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.9		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.11		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	7.6		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.9		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 11B

Lab Sample ID: 660-46977-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	4.9	V	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.2		0.20	0.050	mg/L	1		351.2	Total/NA

Detection Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Client Sample ID: 11B (Continued)

Lab Sample ID: 660-46977-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phosphorus	0.056		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	3.6		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.2		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 11 Pump

Lab Sample ID: 660-46977-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.7	I V	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.2		0.20	0.050	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.41	I	0.50	0.10	mg/L	1		353.2	Total/NA
Phosphorus	0.12		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	3.6		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.6		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: BC

Lab Sample ID: 660-46977-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	6.5	V	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	2.5		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.27		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	11		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	2.5		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Client Sample ID: Gordon Dr

Lab Sample ID: 660-46977-1

Date Collected: 04/05/12 08:45

Matrix: Water

Date Received: 04/06/12 09:00

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	11	V	2.0	0.14	ug/L		04/10/12 13:07	04/12/12 14:50	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	2.0		0.20	0.050	mg/L		04/11/12 18:00	04/12/12 18:01	1
Nitrate Nitrite as N	1.2		0.50	0.10	mg/L			04/09/12 13:22	1
Phosphorus	0.56	J3	0.010	0.0044	mg/L		04/12/12 12:38	04/14/12 10:27	1
Total Suspended Solids	12		1.0	1.0	mg/L			04/12/12 07:25	1
Nitrogen, Total	3.2		0.70	0.15	mg/L			04/13/12 12:52	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Client Sample ID: 14B

Lab Sample ID: 660-46977-2

Date Collected: 04/05/12 09:05

Matrix: Water

Date Received: 04/06/12 09:00

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.4	V	2.0	0.14	ug/L		04/10/12 13:07	04/12/12 14:55	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.76		0.20	0.050	mg/L		04/11/12 18:00	04/12/12 18:05	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/09/12 13:19	1
Phosphorus	0.89		0.020	0.0088	mg/L		04/12/12 12:38	04/14/12 11:04	2
Total Suspended Solids	7.2		1.0	1.0	mg/L			04/12/12 07:25	1
Nitrogen, Total	0.76		0.70	0.15	mg/L			04/13/12 12:52	1



Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Client Sample ID: 14 Pump

Lab Sample ID: 660-46977-3

Date Collected: 04/05/12 09:30

Matrix: Water

Date Received: 04/06/12 09:00

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.9	V	2.0	0.14	ug/L		04/10/12 13:07	04/12/12 14:59	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.88		0.20	0.050	mg/L		04/11/12 18:00	04/12/12 18:09	1
Nitrate Nitrite as N	0.18	I	0.50	0.10	mg/L			04/09/12 13:23	1
Phosphorus	0.83		0.010	0.0044	mg/L		04/12/12 12:38	04/14/12 10:36	1
Total Suspended Solids	4.8		1.0	1.0	mg/L			04/12/12 07:25	1
Nitrogen, Total	1.1		0.70	0.15	mg/L			04/13/12 12:52	1



Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Client Sample ID: 4th Ave

Lab Sample ID: 660-46977-4

Date Collected: 04/05/12 10:00

Matrix: Water

Date Received: 04/06/12 09:00

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.9	V	2.0	0.14	ug/L		04/10/12 13:07	04/12/12 15:03	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.31		0.20	0.050	mg/L		04/11/12 18:00	04/12/12 18:11	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/09/12 13:25	1
Phosphorus	0.057		0.010	0.0044	mg/L		04/12/12 12:38	04/14/12 10:37	1
Total Suspended Solids	1.2		1.0	1.0	mg/L			04/12/12 07:25	1
Nitrogen, Total	0.31	I	0.70	0.15	mg/L			04/13/12 12:52	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Client Sample ID: 11A

Lab Sample ID: 660-46977-5

Date Collected: 04/05/12 10:25

Matrix: Water

Date Received: 04/06/12 09:00

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.9	V	2.0	0.14	ug/L		04/10/12 13:07	04/12/12 15:07	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.9		0.20	0.050	mg/L		04/11/12 18:00	04/12/12 18:12	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/09/12 13:28	1
Phosphorus	0.11		0.010	0.0044	mg/L		04/12/12 12:38	04/14/12 10:39	1
Total Suspended Solids	7.6		1.0	1.0	mg/L			04/12/12 07:25	1
Nitrogen, Total	1.9		0.70	0.15	mg/L			04/13/12 12:52	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Client Sample ID: 11B

Lab Sample ID: 660-46977-6

Date Collected: 04/05/12 10:45

Matrix: Water

Date Received: 04/06/12 09:00

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	4.9	V	2.0	0.14	ug/L		04/10/12 13:07	04/12/12 15:27	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.2		0.20	0.050	mg/L		04/11/12 18:00	04/12/12 18:13	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/09/12 13:30	1
Phosphorus	0.056		0.010	0.0044	mg/L		04/12/12 12:38	04/14/12 10:48	1
Total Suspended Solids	3.6		1.0	1.0	mg/L			04/12/12 07:25	1
Nitrogen, Total	1.2		0.70	0.15	mg/L			04/13/12 12:52	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Client Sample ID: 11 Pump

Lab Sample ID: 660-46977-7

Date Collected: 04/05/12 11:45

Matrix: Water

Date Received: 04/06/12 09:00

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.7	IV	2.0	0.14	ug/L		04/10/12 13:07	04/12/12 15:31	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.2		0.20	0.050	mg/L		04/11/12 18:00	04/12/12 18:15	1
Nitrate Nitrite as N	0.41	I	0.50	0.10	mg/L			04/09/12 13:31	1
Phosphorus	0.12		0.010	0.0044	mg/L		04/12/12 12:38	04/14/12 10:49	1
Total Suspended Solids	3.6		1.0	1.0	mg/L			04/12/12 07:25	1
Nitrogen, Total	1.6		0.70	0.15	mg/L			04/13/12 12:52	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Client Sample ID: BC

Lab Sample ID: 660-46977-8

Date Collected: 04/05/12 12:45

Matrix: Water

Date Received: 04/06/12 09:00

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	6.5	V	2.0	0.14	ug/L		04/10/12 13:07	04/12/12 15:35	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	2.5		0.20	0.050	mg/L		04/11/12 18:00	04/12/12 18:16	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/09/12 13:32	1
Phosphorus	0.27		0.010	0.0044	mg/L		04/12/12 12:38	04/14/12 10:51	1
Total Suspended Solids	11		1.0	1.0	mg/L			04/12/12 07:25	1
Nitrogen, Total	2.5		0.70	0.15	mg/L			04/13/12 12:52	1

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 180-32810/1-A
Matrix: Water
Analysis Batch: 33180

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 32810

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.185	I	2.0	0.14	ug/L		04/10/12 13:07	04/12/12 13:13	1

Lab Sample ID: LCS 180-32810/2-A
Matrix: Water
Analysis Batch: 33180

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 32810

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	250	245		ug/L		98	85 - 115

Lab Sample ID: 180-9646-I-2-B MS
Matrix: Water
Analysis Batch: 33180

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 32810

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	1.1	IV	250	233		ug/L		93	70 - 130

Lab Sample ID: 180-9646-I-2-C MSD
Matrix: Water
Analysis Batch: 33180

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 32810

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	1.1	IV	250	228		ug/L		91	70 - 130	2	20

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 660-123230/3-A
Matrix: Water
Analysis Batch: 123283

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 123230

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.050	U	0.20	0.050	mg/L		04/11/12 18:00	04/12/12 17:44	1

Lab Sample ID: LCS 660-123230/4-A
Matrix: Water
Analysis Batch: 123283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 123230

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	3.00	2.84		mg/L		95	90 - 110

Lab Sample ID: 660-46977-2 MS
Matrix: Water
Analysis Batch: 123283

Client Sample ID: 14B
Prep Type: Total/NA
Prep Batch: 123230

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	0.76		3.00	0.776		mg/L		0.5	90 - 110

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: 660-46977-2 MSD

Matrix: Water

Analysis Batch: 123283

Client Sample ID: 14B

Prep Type: Total/NA

Prep Batch: 123230

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Nitrogen, Kjeldahl	0.76		3.00	0.568		mg/L		-6	90 - 110	31	30

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 660-123141/14

Matrix: Water

Analysis Batch: 123141

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/09/12 12:59	1

Lab Sample ID: LCS 660-123141/15

Matrix: Water

Analysis Batch: 123141

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.978		mg/L		98	90 - 110

Lab Sample ID: 660-46977-2 MS

Matrix: Water

Analysis Batch: 123141

Client Sample ID: 14B

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.10	U	1.00	0.928		mg/L		93	90 - 110

Lab Sample ID: 660-46977-2 MSD

Matrix: Water

Analysis Batch: 123141

Client Sample ID: 14B

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Nitrate Nitrite as N	0.10	U	1.00	0.940		mg/L		94	90 - 110	1	30

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 640-91548/12-A

Matrix: Water

Analysis Batch: 91605

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 91548

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.0044	U	0.010	0.0044	mg/L		04/12/12 12:38	04/14/12 10:22	1

Lab Sample ID: LCS 640-91548/14-A

Matrix: Water

Analysis Batch: 91605

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 91548

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.100	0.0992		mg/L		99	90 - 110

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: LCSD 640-91548/15-A

Matrix: Water

Analysis Batch: 91605

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 91548

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus	0.100	0.0995		mg/L		99	90 - 110	0	30

Lab Sample ID: 660-46977-1 MS

Matrix: Water

Analysis Batch: 91605

Client Sample ID: Gordon Dr

Prep Type: Total/NA

Prep Batch: 91548

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.56	J3	0.100	0.643	J3	mg/L		87	90 - 110

Lab Sample ID: 660-46977-1 DU

Matrix: Water

Analysis Batch: 91605

Client Sample ID: Gordon Dr

Prep Type: Total/NA

Prep Batch: 91548

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Phosphorus	0.56	J3	0.555		mg/L		0.1	30

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 660-123237/1

Matrix: Water

Analysis Batch: 123237

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1.0	U	1.0	1.0	mg/L			04/12/12 07:25	1

Lab Sample ID: LCS 660-123237/2

Matrix: Water

Analysis Batch: 123237

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	100	91.6		mg/L		92	80 - 120

Lab Sample ID: 660-46977-1 DU

Matrix: Water

Analysis Batch: 123237

Client Sample ID: Gordon Dr

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	12		13.2		mg/L		10	20

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Metals

Prep Batch: 32810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-9646-I-2-B MS	Matrix Spike	Total Recoverable	Water	200.8	
180-9646-I-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	
660-46977-1	Gordon Dr	Total Recoverable	Water	200.8	
660-46977-2	14B	Total Recoverable	Water	200.8	
660-46977-3	14 Pump	Total Recoverable	Water	200.8	
660-46977-4	4th Ave	Total Recoverable	Water	200.8	
660-46977-5	11A	Total Recoverable	Water	200.8	
660-46977-6	11B	Total Recoverable	Water	200.8	
660-46977-7	11 Pump	Total Recoverable	Water	200.8	
660-46977-8	BC	Total Recoverable	Water	200.8	
LCS 180-32810/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
MB 180-32810/1-A	Method Blank	Total Recoverable	Water	200.8	

Analysis Batch: 33180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-9646-I-2-B MS	Matrix Spike	Total Recoverable	Water	200.8	32810
180-9646-I-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	32810
660-46977-1	Gordon Dr	Total Recoverable	Water	200.8	32810
660-46977-2	14B	Total Recoverable	Water	200.8	32810
660-46977-3	14 Pump	Total Recoverable	Water	200.8	32810
660-46977-4	4th Ave	Total Recoverable	Water	200.8	32810
660-46977-5	11A	Total Recoverable	Water	200.8	32810
660-46977-6	11B	Total Recoverable	Water	200.8	32810
660-46977-7	11 Pump	Total Recoverable	Water	200.8	32810
660-46977-8	BC	Total Recoverable	Water	200.8	32810
LCS 180-32810/2-A	Lab Control Sample	Total Recoverable	Water	200.8	32810
MB 180-32810/1-A	Method Blank	Total Recoverable	Water	200.8	32810

General Chemistry

Prep Batch: 91548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46977-1	Gordon Dr	Total/NA	Water	365.2/365.3/365	
660-46977-1 DU	Gordon Dr	Total/NA	Water	365.2/365.3/365	
660-46977-1 MS	Gordon Dr	Total/NA	Water	365.2/365.3/365	
660-46977-2	14B	Total/NA	Water	365.2/365.3/365	
660-46977-3	14 Pump	Total/NA	Water	365.2/365.3/365	
660-46977-4	4th Ave	Total/NA	Water	365.2/365.3/365	
660-46977-5	11A	Total/NA	Water	365.2/365.3/365	
660-46977-6	11B	Total/NA	Water	365.2/365.3/365	
660-46977-7	11 Pump	Total/NA	Water	365.2/365.3/365	
660-46977-8	BC	Total/NA	Water	365.2/365.3/365	
LCS 640-91548/14-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
LCSD 640-91548/15-A	Lab Control Sample Dup	Total/NA	Water	365.2/365.3/365	
MB 640-91548/12-A	Method Blank	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 91605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46977-1	Gordon Dr	Total/NA	Water	365.1	91548
660-46977-1 DU	Gordon Dr	Total/NA	Water	365.1	91548
660-46977-1 MS	Gordon Dr	Total/NA	Water	365.1	91548
660-46977-2	14B	Total/NA	Water	365.1	91548

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

General Chemistry (Continued)

Analysis Batch: 91605 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46977-3	14 Pump	Total/NA	Water	365.1	91548
660-46977-4	4th Ave	Total/NA	Water	365.1	91548
660-46977-5	11A	Total/NA	Water	365.1	91548
660-46977-6	11B	Total/NA	Water	365.1	91548
660-46977-7	11 Pump	Total/NA	Water	365.1	91548
660-46977-8	BC	Total/NA	Water	365.1	91548
LCS 640-91548/14-A	Lab Control Sample	Total/NA	Water	365.1	91548
LCS D 640-91548/15-A	Lab Control Sample Dup	Total/NA	Water	365.1	91548
MB 640-91548/12-A	Method Blank	Total/NA	Water	365.1	91548

Analysis Batch: 123141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46977-1	Gordon Dr	Total/NA	Water	353.2	
660-46977-2	14B	Total/NA	Water	353.2	
660-46977-2 MS	14B	Total/NA	Water	353.2	
660-46977-2 MSD	14B	Total/NA	Water	353.2	
660-46977-3	14 Pump	Total/NA	Water	353.2	
660-46977-4	4th Ave	Total/NA	Water	353.2	
660-46977-5	11A	Total/NA	Water	353.2	
660-46977-6	11B	Total/NA	Water	353.2	
660-46977-7	11 Pump	Total/NA	Water	353.2	
660-46977-8	BC	Total/NA	Water	353.2	
LCS 660-123141/15	Lab Control Sample	Total/NA	Water	353.2	
MB 660-123141/14	Method Blank	Total/NA	Water	353.2	

Prep Batch: 123230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46977-1	Gordon Dr	Total/NA	Water	351.2	
660-46977-2	14B	Total/NA	Water	351.2	
660-46977-2 MS	14B	Total/NA	Water	351.2	
660-46977-2 MSD	14B	Total/NA	Water	351.2	
660-46977-3	14 Pump	Total/NA	Water	351.2	
660-46977-4	4th Ave	Total/NA	Water	351.2	
660-46977-5	11A	Total/NA	Water	351.2	
660-46977-6	11B	Total/NA	Water	351.2	
660-46977-7	11 Pump	Total/NA	Water	351.2	
660-46977-8	BC	Total/NA	Water	351.2	
LCS 660-123230/4-A	Lab Control Sample	Total/NA	Water	351.2	
MB 660-123230/3-A	Method Blank	Total/NA	Water	351.2	

Analysis Batch: 123237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46977-1	Gordon Dr	Total/NA	Water	SM 2540D	
660-46977-1 DU	Gordon Dr	Total/NA	Water	SM 2540D	
660-46977-2	14B	Total/NA	Water	SM 2540D	
660-46977-3	14 Pump	Total/NA	Water	SM 2540D	
660-46977-4	4th Ave	Total/NA	Water	SM 2540D	
660-46977-5	11A	Total/NA	Water	SM 2540D	
660-46977-6	11B	Total/NA	Water	SM 2540D	
660-46977-7	11 Pump	Total/NA	Water	SM 2540D	
660-46977-8	BC	Total/NA	Water	SM 2540D	
LCS 660-123237/2	Lab Control Sample	Total/NA	Water	SM 2540D	

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

General Chemistry (Continued)

Analysis Batch: 123237 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-123237/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 123283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46977-1	Gordon Dr	Total/NA	Water	351.2	123230
660-46977-2	14B	Total/NA	Water	351.2	123230
660-46977-2 MS	14B	Total/NA	Water	351.2	123230
660-46977-2 MSD	14B	Total/NA	Water	351.2	123230
660-46977-3	14 Pump	Total/NA	Water	351.2	123230
660-46977-4	4th Ave	Total/NA	Water	351.2	123230
660-46977-5	11A	Total/NA	Water	351.2	123230
660-46977-6	11B	Total/NA	Water	351.2	123230
660-46977-7	11 Pump	Total/NA	Water	351.2	123230
660-46977-8	BC	Total/NA	Water	351.2	123230
LCS 660-123230/4-A	Lab Control Sample	Total/NA	Water	351.2	123230
MB 660-123230/3-A	Method Blank	Total/NA	Water	351.2	123230

Analysis Batch: 123319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46977-1	Gordon Dr	Total/NA	Water	Total Nitrogen	
660-46977-2	14B	Total/NA	Water	Total Nitrogen	
660-46977-3	14 Pump	Total/NA	Water	Total Nitrogen	
660-46977-4	4th Ave	Total/NA	Water	Total Nitrogen	
660-46977-5	11A	Total/NA	Water	Total Nitrogen	
660-46977-6	11B	Total/NA	Water	Total Nitrogen	
660-46977-7	11 Pump	Total/NA	Water	Total Nitrogen	
660-46977-8	BC	Total/NA	Water	Total Nitrogen	

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Client Sample ID: Gordon Dr

Lab Sample ID: 660-46977-1

Date Collected: 04/05/12 08:45

Matrix: Water

Date Received: 04/06/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			32810	04/10/12 13:07	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	33180	04/12/12 14:50	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91548	04/12/12 12:38	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91605	04/14/12 10:27	TDW	TAL TAL
Total/NA	Analysis	353.2		1	123141	04/09/12 13:22	KW	TAL TAM
Total/NA	Analysis	SM 2540D		1	123237	04/12/12 07:25	TO	TAL TAM
Total/NA	Prep	351.2			123230	04/11/12 18:00	TO	TAL TAM
Total/NA	Analysis	351.2		1	123283	04/12/12 18:01	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123319	04/13/12 12:52	RWF	TAL TAM

Client Sample ID: 14B

Lab Sample ID: 660-46977-2

Date Collected: 04/05/12 09:05

Matrix: Water

Date Received: 04/06/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			32810	04/10/12 13:07	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	33180	04/12/12 14:55	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91548	04/12/12 12:38	TDW	TAL TAL
Total/NA	Analysis	365.1		2	91605	04/14/12 11:04	TDW	TAL TAL
Total/NA	Analysis	353.2		1	123141	04/09/12 13:19	KW	TAL TAM
Total/NA	Analysis	SM 2540D		1	123237	04/12/12 07:25	TO	TAL TAM
Total/NA	Prep	351.2			123230	04/11/12 18:00	TO	TAL TAM
Total/NA	Analysis	351.2		1	123283	04/12/12 18:05	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123319	04/13/12 12:52	RWF	TAL TAM

Client Sample ID: 14 Pump

Lab Sample ID: 660-46977-3

Date Collected: 04/05/12 09:30

Matrix: Water

Date Received: 04/06/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			32810	04/10/12 13:07	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	33180	04/12/12 14:59	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91548	04/12/12 12:38	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91605	04/14/12 10:36	TDW	TAL TAL
Total/NA	Analysis	353.2		1	123141	04/09/12 13:23	KW	TAL TAM
Total/NA	Analysis	SM 2540D		1	123237	04/12/12 07:25	TO	TAL TAM
Total/NA	Prep	351.2			123230	04/11/12 18:00	TO	TAL TAM
Total/NA	Analysis	351.2		1	123283	04/12/12 18:09	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123319	04/13/12 12:52	RWF	TAL TAM

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Client Sample ID: 4th Ave

Lab Sample ID: 660-46977-4

Date Collected: 04/05/12 10:00

Matrix: Water

Date Received: 04/06/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			32810	04/10/12 13:07	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	33180	04/12/12 15:03	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91548	04/12/12 12:38	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91605	04/14/12 10:37	TDW	TAL TAL
Total/NA	Analysis	353.2		1	123141	04/09/12 13:25	KW	TAL TAM
Total/NA	Analysis	SM 2540D		1	123237	04/12/12 07:25	TO	TAL TAM
Total/NA	Prep	351.2			123230	04/11/12 18:00	TO	TAL TAM
Total/NA	Analysis	351.2		1	123283	04/12/12 18:11	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123319	04/13/12 12:52	RWF	TAL TAM

Client Sample ID: 11A

Lab Sample ID: 660-46977-5

Date Collected: 04/05/12 10:25

Matrix: Water

Date Received: 04/06/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			32810	04/10/12 13:07	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	33180	04/12/12 15:07	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91548	04/12/12 12:38	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91605	04/14/12 10:39	TDW	TAL TAL
Total/NA	Analysis	353.2		1	123141	04/09/12 13:28	KW	TAL TAM
Total/NA	Analysis	SM 2540D		1	123237	04/12/12 07:25	TO	TAL TAM
Total/NA	Prep	351.2			123230	04/11/12 18:00	TO	TAL TAM
Total/NA	Analysis	351.2		1	123283	04/12/12 18:12	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123319	04/13/12 12:52	RWF	TAL TAM

Client Sample ID: 11B

Lab Sample ID: 660-46977-6

Date Collected: 04/05/12 10:45

Matrix: Water

Date Received: 04/06/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			32810	04/10/12 13:07	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	33180	04/12/12 15:27	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91548	04/12/12 12:38	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91605	04/14/12 10:48	TDW	TAL TAL
Total/NA	Analysis	353.2		1	123141	04/09/12 13:30	KW	TAL TAM
Total/NA	Analysis	SM 2540D		1	123237	04/12/12 07:25	TO	TAL TAM
Total/NA	Prep	351.2			123230	04/11/12 18:00	TO	TAL TAM
Total/NA	Analysis	351.2		1	123283	04/12/12 18:13	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123319	04/13/12 12:52	RWF	TAL TAM

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Client Sample ID: 11 Pump

Lab Sample ID: 660-46977-7

Date Collected: 04/05/12 11:45

Matrix: Water

Date Received: 04/06/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			32810	04/10/12 13:07	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	33180	04/12/12 15:31	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91548	04/12/12 12:38	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91605	04/14/12 10:49	TDW	TAL TAL
Total/NA	Analysis	353.2		1	123141	04/09/12 13:31	KW	TAL TAM
Total/NA	Analysis	SM 2540D		1	123237	04/12/12 07:25	TO	TAL TAM
Total/NA	Prep	351.2			123230	04/11/12 18:00	TO	TAL TAM
Total/NA	Analysis	351.2		1	123283	04/12/12 18:15	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123319	04/13/12 12:52	RWF	TAL TAM

Client Sample ID: BC

Lab Sample ID: 660-46977-8

Date Collected: 04/05/12 12:45

Matrix: Water

Date Received: 04/06/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			32810	04/10/12 13:07	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	33180	04/12/12 15:35	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91548	04/12/12 12:38	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91605	04/14/12 10:51	TDW	TAL TAL
Total/NA	Analysis	353.2		1	123141	04/09/12 13:32	KW	TAL TAM
Total/NA	Analysis	SM 2540D		1	123237	04/12/12 07:25	TO	TAL TAM
Total/NA	Prep	351.2			123230	04/11/12 18:00	TO	TAL TAM
Total/NA	Analysis	351.2		1	123283	04/12/12 18:16	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123319	04/13/12 12:52	RWF	TAL TAM

Laboratory References:

= Sanders Laboratories Inc., 1050 Endeavor Ct., Nokomis, FL 34275

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Certification Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Tampa	Alabama	State Program	4	40610
TestAmerica Tampa	Florida	NELAC	4	E84282
TestAmerica Tampa	Georgia	State Program	4	905
TestAmerica Tampa	USDA	Federal		P330-11-00177
TestAmerica Pittsburgh	Arkansas DEQ	State Program	6	88-0690
TestAmerica Pittsburgh	California	NELAC	9	4224CA
TestAmerica Pittsburgh	Connecticut	State Program	1	PH-0688
TestAmerica Pittsburgh	Florida	NELAC	4	E871008
TestAmerica Pittsburgh	Illinois	NELAC	5	002602
TestAmerica Pittsburgh	Kansas	NELAC	7	E-10350
TestAmerica Pittsburgh	L-A-B	DoD ELAP		L2314
TestAmerica Pittsburgh	Louisiana	NELAC	6	04041
TestAmerica Pittsburgh	New Hampshire	NELAC	1	203011
TestAmerica Pittsburgh	New Jersey	NELAC	2	PA005
TestAmerica Pittsburgh	New York	NELAC	2	11182
TestAmerica Pittsburgh	North Carolina DENR	State Program	4	434
TestAmerica Pittsburgh	Pennsylvania	NELAC	3	02-00416
TestAmerica Pittsburgh	Pennsylvania	State Program	3	02-416
TestAmerica Pittsburgh	South Carolina	State Program	4	89014002
TestAmerica Pittsburgh	USDA	Federal		P330-10-00139
TestAmerica Pittsburgh	USDA	Federal		P-Soil-01
TestAmerica Pittsburgh	Utah	NELAC	8	STLP
TestAmerica Pittsburgh	Virginia	NELAC	3	460189
TestAmerica Pittsburgh	West Virginia DEP	State Program	3	142
TestAmerica Pittsburgh	Wisconsin	State Program	5	998027800
TestAmerica Tallahassee	Florida	NELAC	4	E81005
TestAmerica Tallahassee	Louisiana	NELAC	6	30663
TestAmerica Tallahassee	New Jersey	NELAC	2	FL012
TestAmerica Tallahassee	Oklahoma	State Program	6	9986
TestAmerica Tallahassee	Texas	NELAC	6	T104704459-11-2
TestAmerica Tallahassee	USDA	Federal		P330-08-00158

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL PIT
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL TAM
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL TAM
365.1	Phosphorus, Total	EPA	TAL TAL
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL TAM
Total Nitrogen	Nitrogen, Total	EPA	TAL TAM
Enterococcus and Fecal Coliform	Microbiology	NONE	

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

= Sanders Laboratories Inc., 1050 Endeavor Ct., Nokomis, FL 34275

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

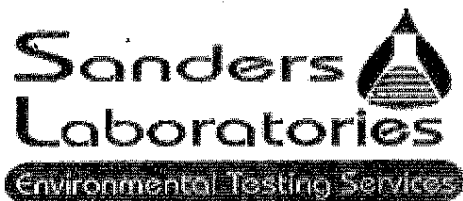
Sample Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-46977-1	Gordon Dr	Water	04/05/12 08:45	04/06/12 09:00
660-46977-2	14B	Water	04/05/12 09:05	04/06/12 09:00
660-46977-3	14 Pump	Water	04/05/12 09:30	04/06/12 09:00
660-46977-4	4th Ave	Water	04/05/12 10:00	04/06/12 09:00
660-46977-5	11A	Water	04/05/12 10:25	04/06/12 09:00
660-46977-6	11B	Water	04/05/12 10:45	04/06/12 09:00
660-46977-7	11 Pump	Water	04/05/12 11:45	04/06/12 09:00
660-46977-8	BC	Water	04/05/12 12:45	04/06/12 09:00

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Laboratory Test Report

Lab Project #: F1204081

Page 1 of 11

All subsequent pages are identified by: F1204081 . These pages may include, but are not limited to: Analytical Data, Chains of Custodys, Subcontracted Data and Case Narratives.

Questions regarding this report should be directed to your **Laboratory Contact:**

Client: Test America Tampa

Attn: Nancy Robertson
6712 Benjamin Rd Suite 10
Tampa, FL 33634
Phone: 813-885-7427
Fax:
E-mail:
Project Name: MACTEC

QUALIFIER DEFINITIONS

- B: Results based upon colony counts outside the acceptable range.
 - I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.
 - J: Estimated Value.
 - J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.
 - K: Off scale low, actual value is known to be less than the value given.
 - L: Off scale high, actual value is known to be greater than the value given.
 - Q: Sample held beyond acceptable holding time.
 - U: The compound was analyzed for, but not detected.
 - V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.
 - Y: The laboratory analysis was from an improperly preserved sample.
 - Z: Too many colonies were present for accurate counting.
- HACH results may not meet NELAC standards.
- A statement of estimated uncertainty of results is available upon request.
- Analytical results provided relate only to the samples received for this project.
- Test results meet all the requirements of the NELAC standards, unless otherwise noted.
- Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.
- Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.
- Laboratory PQL's are available upon request.
- Reports are archived for a minimum of 5 years. Copies of reports which are less than 1 year old are available for a fee of \$25.00 per report. Reports older than 1 year are available for a fee of \$50.00 per report. Copies will be provided within 1 week of the time of the request.

Approved by:

Comments:


Radica Koutselas/QA Officer
Jeff Walsh/Project Manager

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Page: Page 3 of 5

Client Project: MACTEC

Lab Project: F1204081

Report Date: 04/11/12

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-12	6B	Surface Water	GRAB	4/4/12 16:00	4/4/12 14:10

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	9		1	1	MPN/100ml	Enterolert	FB120406013	4/4/12 16:10	LV	E85457
Fecal Coliform, MF	100	U	100	100	CFU/100ml	SM9222D	FB120409014	4/4/12 16:30	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-13	26B	Surface Water	GRAB	4/4/12 16:00	4/4/12 14:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	68		1	1	MPN/100ml	Enterolert	FB120406013	4/4/12 16:10	LV	E85457
Fecal Coliform, MF	180	B	90	90	CFU/100ml	SM9222D	FB120409014	4/4/12 16:30	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-14	GORDON DR	Surface Water	GRAB	4/5/12 12:30	4/5/12 8:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	500		100	100	MPN/100ml	Enterolert	FB120410005	4/5/12 13:50	LV	E85457
Fecal Coliform, MF	43000		1000	1000	CFU/100ml	SM9222D	FB120410002	4/5/12 13:15	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-15	14B	Surface Water	GRAB	4/5/12 12:30	4/5/12 9:05

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	372		1	1	MPN/100ml	Enterolert	FB120410005	4/5/12 13:50	LV	E85457
Fecal Coliform, MF	100	U	100	100	CFU/100ml	SM9222D	FB120410002	4/5/12 13:15	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-16	14 PUMP	Surface Water	GRAB	4/5/12 12:30	4/5/12 9:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	300		100	100	MPN/100ml	Enterolert	FB120410005	4/5/12 13:50	LV	E85457
Fecal Coliform, MF	4000		100	100	CFU/100ml	SM9222D	FB120410002	4/5/12 13:15	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-17	4TH AVE	Surface Water	GRAB	4/5/12 12:30	4/5/12 10:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	6		1	1	MPN/100ml	Enterolert	FB120410005	4/5/12 13:50	LV	E85457
Fecal Coliform, MF	100	U	100	100	CFU/100ml	SM9222D	FB120410002	4/5/12 13:15	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
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Nokomis Lab ~ 1050 Endeavor Ct. ~ Nokomis, FL 34275-3623 ~ Phone: 941-488-8103 ~ Fax: 941-484-6774 ~ DOH Certification # E84380
 Fort Myers Lab ~ 10090 Bavaria Road ~ Fort Myers, FL 33913 ~ Phone: 239-590-0337 ~ Fax: 239-590-0536 ~ DOH Certification # E85457

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Page: Page 4 of 5

Client Project: MACTEC

Lab Project: F1204081

Report Date: 04/11/12

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-18	11A	Surface Water	GRAB	4/5/12 12:30	4/5/12 10:25

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	185		1	1	MPN/100ml	Enterolert	FB120410005	4/5/12 13:50	LV	E85457
Fecal Coliform, MF	1080	B	90	90	CFU/100ml	SM9222D	FB120410002	4/5/12 13:15	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-19	11B	Surface Water	GRAB	4/5/12 12:30	4/5/12 10:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	93		1	1	MPN/100ml	Enterolert	FB120410005	4/5/12 13:50	LV	E85457
Fecal Coliform, MF	100	U	100	100	CFU/100ml	SM9222D	FB120410002	4/5/12 13:15	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-20	11 PUMP	Surface Water	GRAB	4/5/12 15:15	4/5/12 11:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	1730		1	1	MPN/100ml	Enterolert	FB120410005	4/5/12 15:30	LV	E85457
Fecal Coliform, MF	9910	B	90	90	CFU/100ml	SM9222D	FB120410004	4/5/12 15:30	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-21	BC	Surface Water	GRAB	4/5/12 15:15	4/5/12 12:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	961		1	1	MPN/100ml	Enterolert	FB120410005	4/5/12 15:30	LV	E85457
Fecal Coliform, MF	1	U	100	100	CFU/100ml	SM9222D	FB120410004	4/5/12 15:30	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-22	1A	Surface Water	GRAB	4/6/12 12:30	4/6/12 7:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	96		1	1	MPN/100ml	Enterolert	FB120411006	4/6/12 13:00	LV	E85457
Fecal Coliform, MF	180	B	90	90	CFU/100ml	SM9222D	FB120411005	4/6/12 12:30	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-23	3B	Surface Water	GRAB	4/6/12 12:30	4/6/12 8:15

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	140		1	1	MPN/100ml	Enterolert	FB120411006	4/6/12 13:00	LV	E85457
Fecal Coliform, MF	1440	B	90	90	CFU/100ml	SM9222D	FB120411005	4/6/12 12:30	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
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Nokomis Lab ~ 1050 Endeavor Ct. ~ Nokomis, FL 34275-3623 ~ Phone: 941-488-8103 ~ Fax: 941-484-6774 ~ DOH Certification # E84380
 Fort Myers Lab ~ 10090 Bavaria Road ~ Fort Myers, FL 33913 ~ Phone: 239-590-0337 ~ Fax: 239-590-0536 ~ DOH Certification # E85457



CHAIN-OF-CUSTODY RECORD

PROJECT # F120A081

Page 1 of 1

5/4/2012

Client: TEST AMERICA TAMPA
Address: Nancy ROBERTSON

Report To: TEST AMERICA
Bill To: SAME
P.O. #
Preservative: HCl = H, HNO3 = N, Na2S2O8 = ST, H2SO4 = S, NaOH = SH, NH4Cl = NH

Project Name: WAPLES STEINWATER
Project Location:
Customer Type: FOR AMEC
Kit #
REQUESTED DUE DATE: 4/10/12

Sampled By (PRINT): Tom Bates / SA AMEC

Sampler Signature

SAMPLE DESCRIPTION

DATE TIME TYPE

PRESERVATIVES PH ICE

ANALYSES REQUEST

FECAL ENTEROCOCCUS

Sample ID #

Table with columns for Matrix, Sample Description, Date, Time, Type, Preservatives, PH, ICE, Analyses Request, Sample ID #. Includes handwritten entries like 'GORDON DR', '14 B', '14 PUMP', '4TH AVE', '11A', '11B', '1000', '1025', '1045', '905', '930', '4/15/12 845', 'Gear', 'X', 'X', '-14A', '-15A', '-16A', '-17A', '-18A', '-19A'.

RELINQUISHED BY / AFFILIATION DATE TIME ACCEPTED BY / AFFILIATION DATE TIME

COMMENTS:

OKAY TO RUN AS IS...

CLIENT INITIAL:

SAMPLES ON ICE

Yes No

Handwritten signatures and dates for relinquished and accepted parties.



CHAIN-OF-CUSTODY RECORD

PROJECT # F1304081

Page 1 of 1

5/4/2012

Client: TEST AMERICA
Address: TAMPA
(NANCY ROBERTSON)
Phone: 813 885 7427 Fax: _____

Report To: TEST AMERICA
Bill To: SAME
P.O. # _____
Preservative: HCl = H, HNO₃ = N, Na₂SO₃ = ST,
H₂SO₄ = S, NaOH = SH, NH₄Cl = NH

Project Name: NAPLES STORMWATER
Project Location: _____
Customer Type: FOR AMEC
Kit # _____
REQUESTED DUE DATE: 4/11/12

Sampled By (PRINT): Tom Bates / SA AMEC

Sampler Signature: [Signature]

Matrix	SAMPLE DESCRIPTION	Sample			PRESERVATIVES		ANALYSES REQUEST		Sample ID #
		DATE	TIME	TYPE	pH	ICE	FECAL	ENTEROCOC	
SW	11 PUMP	4/5/12	1145	GRAB	X		X	X	-20A
SW	BC	4/5/12	1245	GRAB	X		X	X	-21A
Bottle Lot #		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME
		<u>Sanders / AMEC</u>		<u>4/5</u>	<u>155M</u>	<u>[Signature]</u>		<u>4/5</u>	<u>1515</u>
COMMENTS:		OKAY TO RUN AS IS...		CLIENT INITIAL:		SAMPLES ON ICE		Yes No	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica West Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

TestAmerica Job ID: G2D070426
Client Project/Site: 660-46977
Client Project Description: 660-46977

For:
TestAmerica Tampa
6712 Benjamin Road STE 100
Tampa, FL 33634

Attn: Nancy Robertson



Authorized for release by:
5/3/2012 9:06:44 AM

Jeremy Sadler
Project Manager
jeremy.sadler@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?

 **Ask
The
Expert**

Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Method Summary	14
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Definitions/Glossary

Client: TestAmerica Tampa
Project/Site: 660-46977

TestAmerica Job ID: G2D070426

Qualifiers

HPLC

Qualifier	Qualifier Description
NR	Not reportable.
*	Surrogate recovery is outside stated control limits.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

TestAmerica West Sacramento Project Number G2D070426

WATER, 1694, Sucralose

Samples: 1, 2, 3, 4, 5

The samples were re-extracted at a dilution outside of hold for Sucralose due to matrix interference.

The percent difference values for sucralose is above the method acceptance limit in the continuing calibration standard, indicating a high bias. This standard was analyzed prior to the associated samples. As the associated samples are non-detect and there is a potential for a high bias, there is no adverse impact on the data quality.

Samples: 1, 4, 5

The internal standard recoveries for Sucralose-d6 in the above samples are lower than the method recommended goal. Samples 1 and 5, Sucralose-d6 was not recovered and therefore the native analyte was not reported.

There were no other anomalies associated with this project.



Detection Summary

Client: TestAmerica Tampa
Project/Site: 660-46977

TestAmerica Job ID: G2D070426

Client Sample ID: Gordon Dr.(660-46977-1)

Lab Sample ID: G2D070426001

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Caffeine	120		48	12	ng/L	0.96		1694	Total
Sucralose		NR	10000	5000	ng/L	20		1694	Total

Client Sample ID: 14B(660-46977-2)

Lab Sample ID: G2D070426002

No Detections

Client Sample ID: 14Pump(660-46977-3)

Lab Sample ID: G2D070426003

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Caffeine	32	I	49	13	ng/L	0.98		1694	Total

Client Sample ID: 11A(660-46977-5)

Lab Sample ID: G2D070426004

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Caffeine	440		48	12	ng/L	0.96		1694	Total

Client Sample ID: 11 Pump(660-46977-7)

Lab Sample ID: G2D070426005

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Caffeine	150		50	13	ng/L	1		1694	Total
Sucralose		NR	10000	5000	ng/L	20		1694	Total

Client Sample Results

Client: TestAmerica Tampa
Project/Site: 660-46977

TestAmerica Job ID: G2D070426

Client Sample ID: Gordon Dr.(660-46977-1)

Lab Sample ID: G2D070426001

Date Collected: 04/05/12 08:45

Matrix: Water

Date Received: 04/07/12 09:10

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caffeine	120		48	12	ng/L		04/10/12 15:45	04/14/12 08:49	0.96
Sucralose		NR	10000	5000	ng/L		04/19/12 14:30	04/25/12 01:57	20
Surrogate	%Recovery	Qualifier	Limits						
13C3-Caffeine	131		25 - 150						
Sucralose-d6	0.0	*	25 - 150						
							Prepared	Analyzed	Dil Fac
							04/10/12 15:45	04/14/12 08:49	0.96
							04/19/12 14:30	04/25/12 01:57	20

Client Sample ID: 14B(660-46977-2)

Lab Sample ID: G2D070426002

Date Collected: 04/05/12 09:05

Matrix: Water

Date Received: 04/07/12 09:10

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caffeine	ND		49	13	ng/L		04/10/12 15:45	04/14/12 09:19	0.98
Sucralose	ND		10000	5000	ng/L		04/19/12 14:30	04/25/12 02:28	20
Surrogate	%Recovery	Qualifier	Limits						
13C3-Caffeine	119		25 - 150						
Sucralose-d6	53		25 - 150						
							Prepared	Analyzed	Dil Fac
							04/10/12 15:45	04/14/12 09:19	0.98
							04/19/12 14:30	04/25/12 02:28	20

Client Sample ID: 14Pump(660-46977-3)

Lab Sample ID: G2D070426003

Date Collected: 04/05/12 09:30

Matrix: Water

Date Received: 04/07/12 09:10

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caffeine	32	I	49	13	ng/L		04/10/12 15:45	04/14/12 09:50	0.98
Sucralose	ND		10000	5000	ng/L		04/19/12 14:30	04/25/12 02:59	20
Surrogate	%Recovery	Qualifier	Limits						
13C3-Caffeine	111		25 - 150						
Sucralose-d6	37		25 - 150						
							Prepared	Analyzed	Dil Fac
							04/10/12 15:45	04/14/12 09:50	0.98
							04/19/12 14:30	04/25/12 02:59	20

Client Sample ID: 11A(660-46977-5)

Lab Sample ID: G2D070426004

Date Collected: 04/05/12 10:25

Matrix: Water

Date Received: 04/07/12 09:10

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caffeine	440		48	12	ng/L		04/10/12 15:45	04/14/12 10:21	0.96
Sucralose	ND		10000	5000	ng/L		04/19/12 14:30	04/25/12 03:29	20
Surrogate	%Recovery	Qualifier	Limits						
13C3-Caffeine	120		25 - 150						
Sucralose-d6	20	*	25 - 150						
							Prepared	Analyzed	Dil Fac
							04/10/12 15:45	04/14/12 10:21	0.96
							04/19/12 14:30	04/25/12 03:29	20

Client Sample ID: 11 Pump(660-46977-7)

Lab Sample ID: G2D070426005

Date Collected: 04/05/12 11:45

Matrix: Water

Date Received: 04/07/12 09:10

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caffeine	150		50	13	ng/L		04/10/12 15:45	04/14/12 10:51	1

Client Sample Results

Client: TestAmerica Tampa
Project/Site: 660-46977

TestAmerica Job ID: G2D070426

Client Sample ID: 11 Pump(660-46977-7)

Lab Sample ID: G2D070426005

Date Collected: 04/05/12 11:45

Matrix: Water

Date Received: 04/07/12 09:10

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sucralose		NR	10000	5000	ng/L		04/19/12 14:30	04/25/12 04:00	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
¹³ C3-Caffeine	96		25 - 150				04/10/12 15:45	04/14/12 10:51	1
Sucralose-d6	0.0	*	25 - 150				04/19/12 14:30	04/25/12 04:00	20



Surrogate Summary

Client: TestAmerica Tampa
Project/Site: 660-46977

TestAmerica Job ID: G2D070426

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Matrix: Water

Prep Type: Total

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		13C3-Caffein (25-150)	
G2D070426001	Gordon Dr.(660-46977-1)	131	
G2D070426002	14B(660-46977-2)	119	
G2D070426003	14Pump(660-46977-3)	111	
G2D070426004	11A(660-46977-5)	120	
G2D070426005	11 Pump(660-46977-7)	96	
G2D100000115B	Method Blank	74	
G2D100000115C	Lab Control Sample	75	

Surrogate Legend
13C3-Caffeine = 13C3-Caffeine

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Matrix: Water

Prep Type: Total

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		Sucralose-d (25-150)	
G2D070426001	Gordon Dr.(660-46977-1)	0.0 *	
G2D070426002	14B(660-46977-2)	53	
G2D070426003	14Pump(660-46977-3)	37	
G2D070426004	11A(660-46977-5)	20 *	
G2D070426005	11 Pump(660-46977-7)	0.0 *	
G2D190000139B	Method Blank	93	
G2D190000139C	Lab Control Sample	117	

Surrogate Legend
Sucralose-d6 = Sucralose-d6

QC Sample Results

Client: TestAmerica Tampa
Project/Site: 660-46977

TestAmerica Job ID: G2D070426

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Lab Sample ID: G2D100000115B
Matrix: Water
Analysis Batch: 2101115

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 2101115_P

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Caffeine	ND		50	13	ng/L		04/10/12 15:45	04/14/12 05:14	1
Surrogate	MB MB		Limits			Prepared	Analyzed	Dil Fac	
%Recovery	Qualifier								
13C3-Caffeine	74		25 - 150			04/10/12 15:45	04/14/12 05:14	1	

Lab Sample ID: G2D100000115C
Matrix: Water
Analysis Batch: 2101115

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 2101115_P

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits	
		Result	Qualifier					
Caffeine	100	111		ng/L		111	60 - 140	
Surrogate	LCS LCS		Limits			Prepared	Analyzed	Dil Fac
%Recovery	Qualifier							
13C3-Caffeine	75		25 - 150					

Lab Sample ID: G2D190000139B
Matrix: Water
Analysis Batch: 2110139

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 2110139_P

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sucralose	ND		500	250	ng/L		04/19/12 14:30	04/24/12 23:55	1
Surrogate	MB MB		Limits			Prepared	Analyzed	Dil Fac	
%Recovery	Qualifier								
Sucralose-d6	93		25 - 150			04/19/12 14:30	04/24/12 23:55	1	

Lab Sample ID: G2D190000139C
Matrix: Water
Analysis Batch: 2110139

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 2110139_P

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits	
		Result	Qualifier					
Sucralose	500	622		ng/L		124	60 - 140	
Surrogate	LCS LCS		Limits			Prepared	Analyzed	Dil Fac
%Recovery	Qualifier							
Sucralose-d6	117		25 - 150					

QC Association Summary

Client: TestAmerica Tampa
Project/Site: 660-46977

TestAmerica Job ID: G2D070426

HPLC

Analysis Batch: 2101115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G2D070426001	Gordon Dr.(660-46977-1)	Total	Water	1694	
G2D070426002	14B(660-46977-2)	Total	Water	1694	
G2D070426003	14Pump(660-46977-3)	Total	Water	1694	
G2D070426004	11A(660-46977-5)	Total	Water	1694	
G2D070426005	11 Pump(660-46977-7)	Total	Water	1694	
G2D100000115B	Method Blank	Total	Water	1694	
G2D100000115C	Lab Control Sample	Total	Water	1694	

Analysis Batch: 2110139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G2D070426001	Gordon Dr.(660-46977-1)	Total	Water	1694	
G2D070426002	14B(660-46977-2)	Total	Water	1694	
G2D070426003	14Pump(660-46977-3)	Total	Water	1694	
G2D070426004	11A(660-46977-5)	Total	Water	1694	
G2D070426005	11 Pump(660-46977-7)	Total	Water	1694	
G2D190000139B	Method Blank	Total	Water	1694	
G2D190000139C	Lab Control Sample	Total	Water	1694	

Prep Batch: 2101115_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G2D070426001	Gordon Dr.(660-46977-1)	Total	Water	EXTRACTION, SOLID PHASE	
G2D070426002	14B(660-46977-2)	Total	Water	EXTRACTION, SOLID PHASE	
G2D070426003	14Pump(660-46977-3)	Total	Water	EXTRACTION, SOLID PHASE	
G2D070426004	11A(660-46977-5)	Total	Water	EXTRACTION, SOLID PHASE	
G2D070426005	11 Pump(660-46977-7)	Total	Water	EXTRACTION, SOLID PHASE	
G2D100000115B	Method Blank	Total	Water	EXTRACTION, SOLID PHASE	
G2D100000115C	Lab Control Sample	Total	Water	EXTRACTION, SOLID PHASE	

Prep Batch: 2110139_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G2D070426001	Gordon Dr.(660-46977-1)	Total	Water	EXTRACTION, SOLID PHASE	
G2D070426002	14B(660-46977-2)	Total	Water	EXTRACTION, SOLID PHASE	
G2D070426003	14Pump(660-46977-3)	Total	Water	EXTRACTION, SOLID PHASE	
G2D070426004	11A(660-46977-5)	Total	Water	EXTRACTION, SOLID PHASE	
G2D070426005	11 Pump(660-46977-7)	Total	Water	EXTRACTION, SOLID PHASE	
G2D190000139B	Method Blank	Total	Water	EXTRACTION, SOLID PHASE	
G2D190000139C	Lab Control Sample	Total	Water	EXTRACTION, SOLID PHASE	

Lab Chronicle

Client: TestAmerica Tampa
Project/Site: 660-46977

TestAmerica Job ID: G2D070426

Client Sample ID: Gordon Dr.(660-46977-1)

Lab Sample ID: G2D070426001

Date Collected: 04/05/12 08:45

Matrix: Water

Date Received: 04/07/12 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EXTRACTION, SOLID PHASE			2101115_P	04/10/12 15:45	HJA	TAL WSC
Total	Analysis	1694		0.96	2101115	04/14/12 08:49	NS	TAL WSC
Total	Prep	EXTRACTION, SOLID PHASE			2110139_P	04/19/12 14:30	JR	TAL WSC
Total	Analysis	1694		20	2110139	04/25/12 01:57	NS	TAL WSC

Client Sample ID: 14B(660-46977-2)

Lab Sample ID: G2D070426002

Date Collected: 04/05/12 09:05

Matrix: Water

Date Received: 04/07/12 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EXTRACTION, SOLID PHASE			2101115_P	04/10/12 15:45	HJA	TAL WSC
Total	Analysis	1694		0.98	2101115	04/14/12 09:19	NS	TAL WSC
Total	Prep	EXTRACTION, SOLID PHASE			2110139_P	04/19/12 14:30	JR	TAL WSC
Total	Analysis	1694		20	2110139	04/25/12 02:28	NS	TAL WSC

Client Sample ID: 14Pump(660-46977-3)

Lab Sample ID: G2D070426003

Date Collected: 04/05/12 09:30

Matrix: Water

Date Received: 04/07/12 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EXTRACTION, SOLID PHASE			2101115_P	04/10/12 15:45	HJA	TAL WSC
Total	Analysis	1694		0.98	2101115	04/14/12 09:50	NS	TAL WSC
Total	Prep	EXTRACTION, SOLID PHASE			2110139_P	04/19/12 14:30	JR	TAL WSC
Total	Analysis	1694		20	2110139	04/25/12 02:59	NS	TAL WSC

Client Sample ID: 11A(660-46977-5)

Lab Sample ID: G2D070426004

Date Collected: 04/05/12 10:25

Matrix: Water

Date Received: 04/07/12 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EXTRACTION, SOLID PHASE			2101115_P	04/10/12 15:45	HJA	TAL WSC
Total	Analysis	1694		0.96	2101115	04/14/12 10:21	NS	TAL WSC
Total	Prep	EXTRACTION, SOLID PHASE			2110139_P	04/19/12 14:30	JR	TAL WSC
Total	Analysis	1694		20	2110139	04/25/12 03:29	NS	TAL WSC

Lab Chronicle

Client: TestAmerica Tampa
Project/Site: 660-46977

TestAmerica Job ID: G2D070426

Client Sample ID: 11 Pump(660-46977-7)

Lab Sample ID: G2D070426005

Date Collected: 04/05/12 11:45

Matrix: Water

Date Received: 04/07/12 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EXTRACTION, SOLID PHASE			2101115_P	04/10/12 15:45	HJA	TAL WSC
Total	Analysis	1694		1	2101115	04/14/12 10:51	NS	TAL WSC
Total	Prep	EXTRACTION, SOLID PHASE			2110139_P	04/19/12 14:30	JR	TAL WSC
Total	Analysis	1694		20	2110139	04/25/12 04:00	NS	TAL WSC

Laboratory References:

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Certification Summary

Client: TestAmerica Tampa
Project/Site: 660-46977

TestAmerica Job ID: G2D070426

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica West Sacramento	A2LA	DoD ELAP		2928-01
TestAmerica West Sacramento	Alaska (UST)	State Program	10	UST-055
TestAmerica West Sacramento	Arizona	State Program	9	AZ0708
TestAmerica West Sacramento	Arkansas DEQ	State Program	6	88-0691
TestAmerica West Sacramento	California	NELAC	9	1119CA
TestAmerica West Sacramento	Colorado	State Program	8	N/A
TestAmerica West Sacramento	Connecticut	State Program	1	PH-0691
TestAmerica West Sacramento	Florida	NELAC	4	E87570
TestAmerica West Sacramento	Georgia	State Program	4	960
TestAmerica West Sacramento	Guam	State Program	9	N/A
TestAmerica West Sacramento	Hawaii	State Program	9	N/A
TestAmerica West Sacramento	Illinois	NELAC	5	200060
TestAmerica West Sacramento	Kansas	NELAC	7	E-10375
TestAmerica West Sacramento	Louisiana	NELAC	6	30612
TestAmerica West Sacramento	Michigan	State Program	5	9947
TestAmerica West Sacramento	Nevada	State Program	9	CA44
TestAmerica West Sacramento	New Jersey	NELAC	2	CA005
TestAmerica West Sacramento	New Mexico	State Program	6	N/A
TestAmerica West Sacramento	New York	NELAC	2	11666
TestAmerica West Sacramento	Northern Mariana Islands	State Program	9	MP0007
TestAmerica West Sacramento	Oregon	NELAC	10	CA200005
TestAmerica West Sacramento	Pennsylvania	NELAC	3	68-01272
TestAmerica West Sacramento	South Carolina	State Program	4	87014
TestAmerica West Sacramento	Texas	NELAC	6	T104704399-08-TX
TestAmerica West Sacramento	US Fish & Wildlife	Federal		LE148388-0
TestAmerica West Sacramento	USDA	Federal		P330-09-00055
TestAmerica West Sacramento	Utah	NELAC	8	QUAN1
TestAmerica West Sacramento	Virginia	State Program	3	178
TestAmerica West Sacramento	Washington	State Program	10	C581
TestAmerica West Sacramento	West Virginia	State Program	3	9930C
TestAmerica West Sacramento	West Virginia DEP	State Program	3	334
TestAmerica West Sacramento	Wisconsin	State Program	5	998204680
TestAmerica West Sacramento	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: TestAmerica Tampa
Project/Site: 660-46977

TestAmerica Job ID: G2D070426

Method	Method Description	Protocol	Laboratory
1694	Pharmaceuticals, HPLC/MS/MS (1694)	CFR136A	TAL WSC

Protocol References:

CFR136A = CFR136A

Laboratory References:

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Sample Summary

Client: TestAmerica Tampa
Project/Site: 660-46977

TestAmerica Job ID: G2D070426

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
G2D070426001	Gordon Dr.(660-46977-1)	Water	04/05/12 08:45	04/07/12 09:10
G2D070426002	14B(660-46977-2)	Water	04/05/12 09:05	04/07/12 09:10
G2D070426003	14Pump(660-46977-3)	Water	04/05/12 09:30	04/07/12 09:10
G2D070426004	11A(660-46977-5)	Water	04/05/12 10:25	04/07/12 09:10
G2D070426005	11 Pump(660-46977-7)	Water	04/05/12 11:45	04/07/12 09:10



Chain of Custody Record

G2D020476

Carrier Tracking No(s): **660-46977-1**
 Lab PM: **Robertson, Nancy**
 E-Mail: **nancy.robertson@testamericainc.com**
 Page: **Page 1 of 1**
 Job #: **660-46977-1**

Client Information (Sub Contract Lab)
 Company: **TestAmerica Laboratories, Inc.**
 Address: **880 Riverside Parkway,**
 City: **West Sacramento**
 State, Zip: **CA, 95605**
 Phone: **916-373-5600(Tel)**
 Email:
 Project #: **66003057**
 Site:

Analysis Requested

Due Date Requested: **4/16/2012**
 TAT Requested (days):

PO #:
 WO #:
 Project #: **66003057**
 SSOW#:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastelol, IS1=Isisur, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT/Caffeine, Sucralose	Total Number of Containers	Special Instructions/Note:
Gordon Dr (660-46977-1)	4/5/12	08:45 Eastern	Water	Water	X	X		1	
14B (660-46977-2)	4/5/12	09:05 Eastern	Water	Water	X	X		1	
14 Pump (660-46977-3)	4/5/12	09:30 Eastern	Water	Water	X	X		1	
11A (660-46977-5)	4/5/12	10:25 Eastern	Water	Water	X	X		1	
11 Pump (660-46977-7)	4/5/12	11:45 Eastern	Water	Water	X	X		1	

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: **4/6/12 1730** Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seal No.: **NA**
 Custody Seals Intact: Yes No

Method of Shipment: _____
 Received by: **[Signature]** Date/Time: **4-7-12 1010** Company: **TACS**
 Received by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks: **2-1**



Chain of Custody Record

Client Information (Sub Contract Lab)
 Company: TestAmerica Laboratories, Inc.
 Address: 880 Riverside Parkway, West Sacramento, CA, 95605
 Phone: 916-373-5800(Tel)
 Email:
 Project Name: City of Naples Stormwater
 Site:
 PO #: WO #:
 Project #: SSOW#:
 Div Date Requested: 4/16/2012
 TAT Requested (days):
 Lab Pk: Robertson, Nancy
 E-Mail: nancy.robertson@testamericainc.com
 Carrier Tracking No(s):
 COC No: 660-44366.1
 Page: Page 1 of 1
 Job #: 660-46977-1

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (G=grab, C=comp, BT=Trace, S=Sub)	Matrix (Water, Sediment, Dewatered)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT/Caffeine, Sucralose	Total Number of Containers	Special Instructions/Note:
Gordon Dr (660-46977-1)	4/5/12	08:45 Eastern	Water	Water	X	X	X	1	
14B (660-46977-2)	4/5/12	09:05 Eastern	Water	Water	X	X	X	1	
14 Pump (660-46977-3)	4/5/12	09:30 Eastern	Water	Water	X	X	X	1	
11A (660-46977-5)	4/5/12	10:25 Eastern	Water	Water	X	X	X	1	
11 Pump (660-46977-7)	4/5/12	11:45 Eastern	Water	Water	X	X	X	1	

Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDTA
 Other:
 M - Hexane
 N - None
 O - AshNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecylhydrate
 U - Acetone
 V - MCAA
 W - ph 4-5
 X - EDTA
 Z - other (specify)

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify)
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Chain of Custody
 Date/Time: 4/18/12 17:19
 Received by: *[Signature]*
 Company: TAT Tampa
 Date/Time: 4/18/12 12:40
 Received by: *[Signature]*
 Company: TAT WOS
 Date/Time:
 Received by:
 Company:
 Date/Time:
 Received by:
 Company:
 Cooler Temperature(s): °C and Other Remarks: 1



LOT RECEIPT CHECKLIST TestAmerica West Sacramento

CLIENT TAL TAMPA PM JS

LOT# (QUANTIMS ID) G2D070426 QUOTE# 35474 LOCATION W18A

DATE RECEIVED 4/7/12 TIME RECEIVED 9:10 Checked (✓)

DELIVERED BY FEDEX ON TRAC OTHER

GOLDENSTATE UPS EZ PARCEL

TAL COURIER TAL SF CLIENT

SHIPPING CONTAINER(S) TAL CLIENT N/A

MULTI-COOLER(S) (If checked see multi-cooler form)

SINGLE COOLER INFORMATION N/A

CUSTODY SEAL STATUS INTACT BROKEN N/A

CUSTODY SEAL #(S) NA

COC #(S) 660-44007.1

TEMPERATURE BLANK Observed: NA Corrected: NA

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: 2.8,2.9,2.0 Average 2.5 Corrected Average 2.1

LABORATORY THERMOMETER ID:

IR UNIT: #4 #5 OTHER

CH 4/7/12
Initials Date

=====

pH MEASURED YES ANOMALY N/A

LABELLED BY..... CH

LOGGED IN BY..... CH

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM N/A

VOA-ENCORES N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES N/A

CLOUSEAU TEMPERATURE EXCEEDED (0 °C – 6 °C)^{*1} N/A

WET ICE BLUE ICE GEL PACK NO COOLING AGENTS USED

CH 4/7/12
Initials Date

Notes Additional sample volume was received on 4/19/12 at 1.1 degree C. JS 4/19/12

*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.



ORIGIN ID: TPFA (813) 885-7427
CUSTODY
TESTAMERICA TAMPA
6712 BENJAMIN ROAD
SUITE 100
TAMPA, FL 33634
UNITED STATES US

SHIP DATE: 06APR12
ACTWGT: 40.0 LB
CAD: 842522/CAFE2511
DIMS: 12x11x9 IN
BILL RECIPIENT

TO

TEST AMERICA/WEST SACRAMENTO
880 RIVERSIDE PARKWAY
CUSTODY
WEST SACRAMENTO CA 956051500
(916) 378-5800
DEPT: WORKSHARE SAMPLES

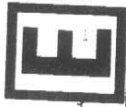
ORIGIN ID: TPFA (813) 885-7427
CUSTODY
TESTAMERICA TAMPA
6712 BENJAMIN ROAD
SUITE 100
TAMPA, FL 33634
UNITED STATES US

TO

TEST AMERICA/WEST SACRAMENTO
880 RIVERSIDE PARKWAY
CUSTODY
WEST SACRAMENTO, CA 956051500
(US)

(916) 373-5600

FedEx
Express



TRK# 5269 1727 4424

PRIORITY OVERNIGHT



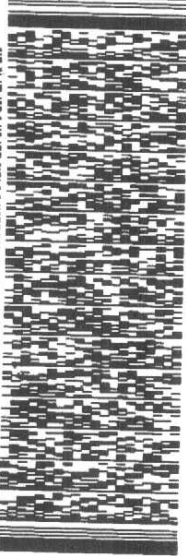
880 RIVERSIDE PARKWAY

SHIP DATE: 06APR12
ACTWGT: 40.0 LB
CAD: 842522/CAFE2511
DIMS: 12x11x9 IN
BILL RECIPIENT

TO

TEST AMERICA/WEST SACRAMENTO
880 RIVERSIDE PARKWAY
CUSTODY
WEST SACRAMENTO CA 956051500
(916) 378-5800
DEPT: WORKSHARE SAMPLES

FedEx
Express

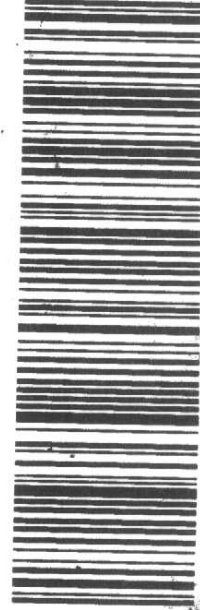


SATURDAY ### A1
PRIORITY OVERNIGHT

TRK# 5269 1727 4424

XO BLUA

95605
CA-US SMF



PLACE THIS LABEL ON PACKAGE
NEXT TO THE SHIPPING LABEL

Part # 156148-434 RIT2 07/11

Part # 156148-434 RIT2 07/11

ALIGN OPEN END OF FEDEX AIRBILL POUCH HERE

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

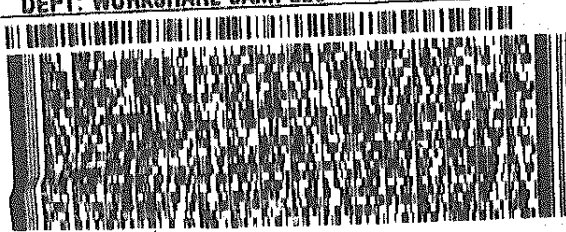
ORIGIN ID: TPFA (813) 895-7427
CUSTODY
TESTAMERICA TAMPA
6712 BENJAMIN ROAD
SUITE 100
TAMPA, FL 33634
UNITED STATES US

SHIP DATE: 10APR12
ACTWGT: 45.6 LB
CAD: 842522/CAFE2511
DIMS: 24x14x13 IN
BILL RECIPIENT

TO

TEST AMERICA/SACRAMENTO
880 RIVERSIDE PARKWAY
CUSTODY
WEST SACRAMENTO CA 956051500
(916) 873-6600
DEPT: WORKSHARE SAMPLES

520017/04/12/100R



FedEx
Express



311131108080125

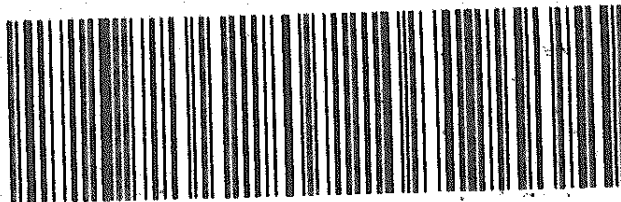
TRK# 5269 1727 4972
0201

THU - 19 APR A1
STANDARD OVERNIGHT

XH BLUA

95605
CA-US SMF

Part # 156148-434 RIT2 07/11



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

TestAmerica Tampa
 6712 Benjamin Road Suite 100
 Tampa, FL 33634
 Phone (813) 885-7427 Fax (813) 885-7049

660-46977

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information
 Client Contact: **Sam Arden Tom Bats** Phone: **239 564 8483** Lab Pmt: **Robertson, Nancy**
 Company: **AMEC E&I, Inc** Address: **222 Industrial Blvd, Suite 155** City: **Naples** State, Zip: **FL, 34104** PO #: **239-564-8483(Tel)** W/O #: **201103312** Email: **tdbates@mracle.com** Project #: **66003057** City of Naples Stormwater
 Site: **AMEC Pros 6063-12-0207** SSON#:

Analysis Requested
 Due Date Requested: **STANDARD**
 TAT Requested (days):
 Field Filtered Sample (Yes or No) **Yes**
 Perform MS/MSD (Yes or No) **Yes**

Carrier Tracking No(s)	COC No:
	660-40477-131603
Page 3 of 7	
Job #:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=Soil, O=Other)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Special Instructions/Note
GORDON DR	4/5/12	845	G	Water	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	200.8 - Copper	
14 B		905	G	Water	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	365.1 - Phosphorus	
14 PUMP		930	G	Water	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	351.2, 353.2	
4TH AVE		1000	G	Water	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2540D - Total Suspended Solids	
11 A		1025	G	Water	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SUBCONTRACT - Enterococcus and Fecal Coliform	
11 B		1045	G	Water	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	SUBCONTRACT - 1694 Caffeine, Sucralose	
11 PUMP		1145	G	Water	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
BC		1245	G	Water	N	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For **3** Months
 Special Instructions/QC Requirements:

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by: **AMEC** Date/Time: **3/30/12 1600** Company: **AMEC**
Relinquished by: **to FEDEX** Date/Time: **4/5/12 1730** Company: **AMEC**
Relinquished by: **to FEDEX** Date/Time: **4/5/12 900** Company: **AMEC**

Custody Seals Intact: Yes No Custody Seal No.:
 Copier Temperature(s) °C and Other Remarks: **21, 20, 20, 20, 20, 20**

Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-46977-1

Login Number: 46977

List Number: 1

Creator: McNulty, Carol

List Source: TestAmerica Tampa

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.1, 2.0, 3.5 deg C Cu-07
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-46977-1

Login Number: 46977

List Number: 1

Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

List Creation: 04/07/12 10:43 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-46977-1

Login Number: 46977

List Number: 1

Creator: Delp, Eric

List Source: TestAmerica Tallahassee

List Creation: 04/09/12 09:45 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Tampa
6712 Benjamin Road
Suite 100
Tampa, FL 33634
Tel: (813)885-7427

TestAmerica Job ID: 660-46994-1

Client Project/Site: City of Naples Stormwater

For:

AMEC Environment & Infrastructure, Inc.
222 Industrial Blvd., Suite 155
Naples, Florida 34104

Attn: Mr. Tom Bates



Authorized for release by:
5/4/2012 3:05:09 PM

Nancy Robertson
Project Manager II
nancy.robertson@testamericainc.com

LINKS

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results through
TotalAccess

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Qualifiers

Metals

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Job ID: 660-46994-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative
660-46994-1

Subcontract Reports are included at the back of this report

Receipt

The samples were received on 4/7/2012 8:30 AM; the samples arrived in good conditions, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.10 C and 2.60 C.

Metals

No analytical or quality issues were noted.

General Chemistry

Method 351.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 123283 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. Analyst failed to spike samples.

No other analytical or quality issues were noted.

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Detection Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Client Sample ID: 1A

Lab Sample ID: 660-46994-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	9.6		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.1		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.10		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	4.4		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.1		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 3B

Lab Sample ID: 660-46994-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	5.6		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.1		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.11		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	4.8		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.1		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 7B

Lab Sample ID: 660-46994-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	6.0		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	3.7		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.17		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	18		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	3.7		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 8B

Lab Sample ID: 660-46994-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	4.9		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.3		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.060		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	6.8		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.3		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 9B

Lab Sample ID: 660-46994-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	11		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.3		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.17		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	6.0		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.3		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 10B

Lab Sample ID: 660-46994-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.9		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.6		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.095		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	9.6		1.0	1.0	mg/L	1		SM 2540D	Total/NA

Detection Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Client Sample ID: 10B (Continued)

Lab Sample ID: 660-46994-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrogen, Total	1.6		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: Alley

Lab Sample ID: 660-46994-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	6.2		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.0		0.20	0.050	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.14	I	0.50	0.10	mg/L	1		353.2	Total/NA
Phosphorus	0.18		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	36		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.1		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA



Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Client Sample ID: 1A

Lab Sample ID: 660-46994-1

Date Collected: 04/06/12 07:45

Matrix: Water

Date Received: 04/07/12 08:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	9.6		2.0	0.14	ug/L		04/12/12 10:36	04/17/12 12:18	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.1		0.20	0.050	mg/L		04/11/12 18:00	04/12/12 17:47	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/09/12 13:33	1
Phosphorus	0.10		0.010	0.0044	mg/L		04/16/12 10:00	04/16/12 15:03	1
Total Suspended Solids	4.4		1.0	1.0	mg/L			04/12/12 07:25	1
Nitrogen, Total	1.1		0.70	0.15	mg/L			04/17/12 14:20	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Client Sample ID: 3B

Lab Sample ID: 660-46994-2

Date Collected: 04/06/12 08:15

Matrix: Water

Date Received: 04/07/12 08:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	5.6		2.0	0.14	ug/L		04/12/12 10:36	04/17/12 12:27	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.1		0.20	0.050	mg/L		04/11/12 18:00	04/12/12 17:51	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/09/12 13:34	1
Phosphorus	0.11		0.010	0.0044	mg/L		04/16/12 10:00	04/16/12 15:12	1
Total Suspended Solids	4.8		1.0	1.0	mg/L			04/12/12 07:25	1
Nitrogen, Total	1.1		0.70	0.15	mg/L			04/17/12 14:20	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Client Sample ID: 7B

Lab Sample ID: 660-46994-3

Date Collected: 04/06/12 08:30

Matrix: Water

Date Received: 04/07/12 08:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	6.0		2.0	0.14	ug/L		04/12/12 10:36	04/17/12 12:31	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	3.7		0.20	0.050	mg/L		04/11/12 18:00	04/12/12 17:52	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/17/12 11:14	1
Phosphorus	0.17		0.010	0.0044	mg/L		04/16/12 10:00	04/16/12 15:13	1
Total Suspended Solids	18		1.0	1.0	mg/L			04/12/12 07:25	1
Nitrogen, Total	3.7		0.70	0.15	mg/L			04/17/12 14:20	1



Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Client Sample ID: 8B

Lab Sample ID: 660-46994-4

Date Collected: 04/06/12 09:00

Matrix: Water

Date Received: 04/07/12 08:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	4.9		2.0	0.14	ug/L		04/12/12 10:36	04/17/12 12:35	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.3		0.20	0.050	mg/L		04/11/12 18:00	04/12/12 17:54	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/17/12 11:17	1
Phosphorus	0.060		0.010	0.0044	mg/L		04/16/12 10:00	04/16/12 15:15	1
Total Suspended Solids	6.8		1.0	1.0	mg/L			04/12/12 07:25	1
Nitrogen, Total	1.3		0.70	0.15	mg/L			04/17/12 14:20	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Client Sample ID: 9B

Lab Sample ID: 660-46994-5

Date Collected: 04/06/12 09:15

Matrix: Water

Date Received: 04/07/12 08:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	11		2.0	0.14	ug/L		04/12/12 10:36	04/17/12 12:54	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.3		0.20	0.050	mg/L		04/11/12 18:00	04/12/12 17:55	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/17/12 11:19	1
Phosphorus	0.17		0.010	0.0044	mg/L		04/16/12 10:00	04/16/12 15:16	1
Total Suspended Solids	6.0		1.0	1.0	mg/L			04/12/12 07:25	1
Nitrogen, Total	1.3		0.70	0.15	mg/L			04/17/12 14:20	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Client Sample ID: 10B

Lab Sample ID: 660-46994-6

Date Collected: 04/06/12 09:30

Matrix: Water

Date Received: 04/07/12 08:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.9	I	2.0	0.14	ug/L		04/12/12 10:36	04/17/12 12:59	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.6		0.20	0.050	mg/L		04/11/12 18:00	04/12/12 17:56	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/17/12 11:20	1
Phosphorus	0.095		0.010	0.0044	mg/L		04/16/12 10:00	04/16/12 15:18	1
Total Suspended Solids	9.6		1.0	1.0	mg/L			04/12/12 07:25	1
Nitrogen, Total	1.6		0.70	0.15	mg/L			04/17/12 14:20	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Client Sample ID: Alley

Lab Sample ID: 660-46994-7

Date Collected: 04/06/12 10:00

Matrix: Water

Date Received: 04/07/12 08:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	6.2		2.0	0.14	ug/L		04/12/12 10:36	04/17/12 13:03	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.0		0.20	0.050	mg/L		04/11/12 18:00	04/12/12 17:57	1
Nitrate Nitrite as N	0.14	I	0.50	0.10	mg/L			04/17/12 11:21	1
Phosphorus	0.18		0.010	0.0044	mg/L		04/16/12 10:00	04/16/12 15:22	1
Total Suspended Solids	36		1.0	1.0	mg/L			04/12/12 07:25	1
Nitrogen, Total	1.1		0.70	0.15	mg/L			04/17/12 14:20	1

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 180-33066/1-A
Matrix: Water
Analysis Batch: 33541

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 33066

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.14	U	2.0	0.14	ug/L		04/12/12 10:36	04/17/12 12:06	1

Lab Sample ID: LCS 180-33066/2-A
Matrix: Water
Analysis Batch: 33541

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 33066

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	250	224		ug/L		90	85 - 115

Lab Sample ID: LCSD 180-33066/3-A
Matrix: Water
Analysis Batch: 33541

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 33066

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	250	241		ug/L		96	85 - 115	7.40	20

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 660-123230/3-A
Matrix: Water
Analysis Batch: 123283

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 123230

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.050	U	0.20	0.050	mg/L		04/11/12 18:00	04/12/12 17:44	1

Lab Sample ID: LCS 660-123230/4-A
Matrix: Water
Analysis Batch: 123283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 123230

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	3.00	2.84		mg/L		95	90 - 110

Lab Sample ID: 660-46994-1 MS
Matrix: Water
Analysis Batch: 123283

Client Sample ID: 1A
Prep Type: Total/NA
Prep Batch: 123230

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	1.1		3.00	1.03		mg/L		-2	90 - 110

Lab Sample ID: 660-46994-1 MSD
Matrix: Water
Analysis Batch: 123283

Client Sample ID: 1A
Prep Type: Total/NA
Prep Batch: 123230

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Kjeldahl	1.1		3.00	1.06		mg/L		-1	90 - 110	3	30

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 660-123141/14
Matrix: Water
Analysis Batch: 123141

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/09/12 12:59	1

Lab Sample ID: LCS 660-123141/15
Matrix: Water
Analysis Batch: 123141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.978		mg/L		98	90 - 110

Lab Sample ID: 660-46977-C-2 MS
Matrix: Water
Analysis Batch: 123141

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.10	U	1.00	0.928		mg/L		93	90 - 110

Lab Sample ID: 660-46977-C-2 MSD
Matrix: Water
Analysis Batch: 123141

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.10	U	1.00	0.940		mg/L		94	90 - 110	1	30

Lab Sample ID: MB 660-123399/14
Matrix: Water
Analysis Batch: 123399

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			04/17/12 11:11	1

Lab Sample ID: LCS 660-123399/15
Matrix: Water
Analysis Batch: 123399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.972		mg/L		97	90 - 110

Lab Sample ID: 660-46994-3 MS
Matrix: Water
Analysis Batch: 123399

Client Sample ID: 7B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.10	U	1.00	0.930		mg/L		93	90 - 110

Lab Sample ID: 660-46994-3 MSD
Matrix: Water
Analysis Batch: 123399

Client Sample ID: 7B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.10	U	1.00	0.955		mg/L		96	90 - 110	2.65	30

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 640-91613/3-A
Matrix: Water
Analysis Batch: 91646

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 91613

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.0044	U	0.010	0.0044	mg/L		04/16/12 10:00	04/16/12 14:46	1

Lab Sample ID: LCS 640-91613/5-A
Matrix: Water
Analysis Batch: 91646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 91613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.100	0.0984		mg/L		98	90 - 110

Lab Sample ID: LCSD 640-91613/6-A
Matrix: Water
Analysis Batch: 91646

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 91613

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus	0.100	0.0989		mg/L		99	90 - 110	1	30

Lab Sample ID: 640-38182-E-1-C MS
Matrix: Water
Analysis Batch: 91646

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 91613

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.012		0.100	0.119		mg/L		107	90 - 110

Lab Sample ID: 640-38182-E-1-B DU
Matrix: Water
Analysis Batch: 91646

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 91613

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Phosphorus	0.012		0.0116		mg/L		4	30

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 660-123237/1
Matrix: Water
Analysis Batch: 123237

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1.0	U	1.0	1.0	mg/L			04/12/12 07:25	1

Lab Sample ID: LCS 660-123237/2
Matrix: Water
Analysis Batch: 123237

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	100	91.6		mg/L		92	80 - 120

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: 660-46977-D-1 DU
 Matrix: Water
 Analysis Batch: 123237

Client Sample ID: Duplicate
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	12		13.2		mg/L		10	20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Metals

Prep Batch: 33066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46994-1	1A	Total Recoverable	Water	200.8	
660-46994-2	3B	Total Recoverable	Water	200.8	
660-46994-3	7B	Total Recoverable	Water	200.8	
660-46994-4	8B	Total Recoverable	Water	200.8	
660-46994-5	9B	Total Recoverable	Water	200.8	
660-46994-6	10B	Total Recoverable	Water	200.8	
660-46994-7	Alley	Total Recoverable	Water	200.8	
LCS 180-33066/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 180-33066/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
MB 180-33066/1-A	Method Blank	Total Recoverable	Water	200.8	

Analysis Batch: 33541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46994-1	1A	Total Recoverable	Water	200.8	33066
660-46994-2	3B	Total Recoverable	Water	200.8	33066
660-46994-3	7B	Total Recoverable	Water	200.8	33066
660-46994-4	8B	Total Recoverable	Water	200.8	33066
660-46994-5	9B	Total Recoverable	Water	200.8	33066
660-46994-6	10B	Total Recoverable	Water	200.8	33066
660-46994-7	Alley	Total Recoverable	Water	200.8	33066
LCS 180-33066/2-A	Lab Control Sample	Total Recoverable	Water	200.8	33066
LCSD 180-33066/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	33066
MB 180-33066/1-A	Method Blank	Total Recoverable	Water	200.8	33066

General Chemistry

Prep Batch: 91613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-38182-E-1-B DU	Duplicate	Total/NA	Water	365.2/365.3/365	
640-38182-E-1-C MS	Matrix Spike	Total/NA	Water	365.2/365.3/365	
660-46994-1	1A	Total/NA	Water	365.2/365.3/365	
660-46994-2	3B	Total/NA	Water	365.2/365.3/365	
660-46994-3	7B	Total/NA	Water	365.2/365.3/365	
660-46994-4	8B	Total/NA	Water	365.2/365.3/365	
660-46994-5	9B	Total/NA	Water	365.2/365.3/365	
660-46994-6	10B	Total/NA	Water	365.2/365.3/365	
660-46994-7	Alley	Total/NA	Water	365.2/365.3/365	
LCS 640-91613/5-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
LCSD 640-91613/6-A	Lab Control Sample Dup	Total/NA	Water	365.2/365.3/365	
MB 640-91613/3-A	Method Blank	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 91646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
640-38182-E-1-B DU	Duplicate	Total/NA	Water	365.1	91613
640-38182-E-1-C MS	Matrix Spike	Total/NA	Water	365.1	91613
660-46994-1	1A	Total/NA	Water	365.1	91613
660-46994-2	3B	Total/NA	Water	365.1	91613
660-46994-3	7B	Total/NA	Water	365.1	91613
660-46994-4	8B	Total/NA	Water	365.1	91613
660-46994-5	9B	Total/NA	Water	365.1	91613
660-46994-6	10B	Total/NA	Water	365.1	91613
660-46994-7	Alley	Total/NA	Water	365.1	91613

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

General Chemistry (Continued)

Analysis Batch: 91646 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 640-91613/5-A	Lab Control Sample	Total/NA	Water	365.1	91613
LCSD 640-91613/6-A	Lab Control Sample Dup	Total/NA	Water	365.1	91613
MB 640-91613/3-A	Method Blank	Total/NA	Water	365.1	91613

Analysis Batch: 123141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46977-C-2 MS	Matrix Spike	Total/NA	Water	353.2	
660-46977-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	
660-46994-1	1A	Total/NA	Water	353.2	
660-46994-2	3B	Total/NA	Water	353.2	
LCS 660-123141/15	Lab Control Sample	Total/NA	Water	353.2	
MB 660-123141/14	Method Blank	Total/NA	Water	353.2	

Prep Batch: 123230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46994-1	1A	Total/NA	Water	351.2	
660-46994-1 MS	1A	Total/NA	Water	351.2	
660-46994-1 MSD	1A	Total/NA	Water	351.2	
660-46994-2	3B	Total/NA	Water	351.2	
660-46994-3	7B	Total/NA	Water	351.2	
660-46994-4	8B	Total/NA	Water	351.2	
660-46994-5	9B	Total/NA	Water	351.2	
660-46994-6	10B	Total/NA	Water	351.2	
660-46994-7	Alley	Total/NA	Water	351.2	
LCS 660-123230/4-A	Lab Control Sample	Total/NA	Water	351.2	
MB 660-123230/3-A	Method Blank	Total/NA	Water	351.2	

Analysis Batch: 123237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46977-D-1 DU	Duplicate	Total/NA	Water	SM 2540D	
660-46994-1	1A	Total/NA	Water	SM 2540D	
660-46994-2	3B	Total/NA	Water	SM 2540D	
660-46994-3	7B	Total/NA	Water	SM 2540D	
660-46994-4	8B	Total/NA	Water	SM 2540D	
660-46994-5	9B	Total/NA	Water	SM 2540D	
660-46994-6	10B	Total/NA	Water	SM 2540D	
660-46994-7	Alley	Total/NA	Water	SM 2540D	
LCS 660-123237/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 660-123237/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 123283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46994-1	1A	Total/NA	Water	351.2	123230
660-46994-1 MS	1A	Total/NA	Water	351.2	123230
660-46994-1 MSD	1A	Total/NA	Water	351.2	123230
660-46994-2	3B	Total/NA	Water	351.2	123230
660-46994-3	7B	Total/NA	Water	351.2	123230
660-46994-4	8B	Total/NA	Water	351.2	123230
660-46994-5	9B	Total/NA	Water	351.2	123230
660-46994-6	10B	Total/NA	Water	351.2	123230
660-46994-7	Alley	Total/NA	Water	351.2	123230
LCS 660-123230/4-A	Lab Control Sample	Total/NA	Water	351.2	123230

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

General Chemistry (Continued)

Analysis Batch: 123283 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-123230/3-A	Method Blank	Total/NA	Water	351.2	123230

Analysis Batch: 123399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46994-3	7B	Total/NA	Water	353.2	
660-46994-3 MS	7B	Total/NA	Water	353.2	
660-46994-3 MSD	7B	Total/NA	Water	353.2	
660-46994-4	8B	Total/NA	Water	353.2	
660-46994-5	9B	Total/NA	Water	353.2	
660-46994-6	10B	Total/NA	Water	353.2	
660-46994-7	Alley	Total/NA	Water	353.2	
LCS 660-123399/15	Lab Control Sample	Total/NA	Water	353.2	
MB 660-123399/14	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 123400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-46994-1	1A	Total/NA	Water	Total Nitrogen	
660-46994-2	3B	Total/NA	Water	Total Nitrogen	
660-46994-3	7B	Total/NA	Water	Total Nitrogen	
660-46994-4	8B	Total/NA	Water	Total Nitrogen	
660-46994-5	9B	Total/NA	Water	Total Nitrogen	
660-46994-6	10B	Total/NA	Water	Total Nitrogen	
660-46994-7	Alley	Total/NA	Water	Total Nitrogen	

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Client Sample ID: 1A

Lab Sample ID: 660-46994-1

Date Collected: 04/06/12 07:45

Matrix: Water

Date Received: 04/07/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			33066	04/12/12 10:36	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	33541	04/17/12 12:18	RR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91613	04/16/12 10:00	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91646	04/16/12 15:03	TDW	TAL TAL
Total/NA	Analysis	353.2		1	123141	04/09/12 13:33	KW	TAL TAM
Total/NA	Analysis	SM 2540D		1	123237	04/12/12 07:25	TO	TAL TAM
Total/NA	Prep	351.2			123230	04/11/12 18:00	TO	TAL TAM
Total/NA	Analysis	351.2		1	123283	04/12/12 17:47	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123400	04/17/12 14:20	RWF	TAL TAM

Client Sample ID: 3B

Lab Sample ID: 660-46994-2

Date Collected: 04/06/12 08:15

Matrix: Water

Date Received: 04/07/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			33066	04/12/12 10:36	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	33541	04/17/12 12:27	RR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91613	04/16/12 10:00	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91646	04/16/12 15:12	TDW	TAL TAL
Total/NA	Analysis	353.2		1	123141	04/09/12 13:34	KW	TAL TAM
Total/NA	Analysis	SM 2540D		1	123237	04/12/12 07:25	TO	TAL TAM
Total/NA	Prep	351.2			123230	04/11/12 18:00	TO	TAL TAM
Total/NA	Analysis	351.2		1	123283	04/12/12 17:51	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123400	04/17/12 14:20	RWF	TAL TAM

Client Sample ID: 7B

Lab Sample ID: 660-46994-3

Date Collected: 04/06/12 08:30

Matrix: Water

Date Received: 04/07/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			33066	04/12/12 10:36	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	33541	04/17/12 12:31	RR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91613	04/16/12 10:00	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91646	04/16/12 15:13	TDW	TAL TAL
Total/NA	Analysis	SM 2540D		1	123237	04/12/12 07:25	TO	TAL TAM
Total/NA	Prep	351.2			123230	04/11/12 18:00	TO	TAL TAM
Total/NA	Analysis	351.2		1	123283	04/12/12 17:52	TO	TAL TAM
Total/NA	Analysis	353.2		1	123399	04/17/12 11:14	KW	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123400	04/17/12 14:20	RWF	TAL TAM

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Client Sample ID: 8B

Lab Sample ID: 660-46994-4

Date Collected: 04/06/12 09:00

Matrix: Water

Date Received: 04/07/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			33066	04/12/12 10:36	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	33541	04/17/12 12:35	RR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91613	04/16/12 10:00	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91646	04/16/12 15:15	TDW	TAL TAL
Total/NA	Analysis	SM 2540D		1	123237	04/12/12 07:25	TO	TAL TAM
Total/NA	Prep	351.2			123230	04/11/12 18:00	TO	TAL TAM
Total/NA	Analysis	351.2		1	123283	04/12/12 17:54	TO	TAL TAM
Total/NA	Analysis	353.2		1	123399	04/17/12 11:17	KW	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123400	04/17/12 14:20	RWF	TAL TAM

Client Sample ID: 9B

Lab Sample ID: 660-46994-5

Date Collected: 04/06/12 09:15

Matrix: Water

Date Received: 04/07/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			33066	04/12/12 10:36	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	33541	04/17/12 12:54	RR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91613	04/16/12 10:00	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91646	04/16/12 15:16	TDW	TAL TAL
Total/NA	Analysis	SM 2540D		1	123237	04/12/12 07:25	TO	TAL TAM
Total/NA	Prep	351.2			123230	04/11/12 18:00	TO	TAL TAM
Total/NA	Analysis	351.2		1	123283	04/12/12 17:55	TO	TAL TAM
Total/NA	Analysis	353.2		1	123399	04/17/12 11:19	KW	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123400	04/17/12 14:20	RWF	TAL TAM

Client Sample ID: 10B

Lab Sample ID: 660-46994-6

Date Collected: 04/06/12 09:30

Matrix: Water

Date Received: 04/07/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			33066	04/12/12 10:36	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	33541	04/17/12 12:59	RR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91613	04/16/12 10:00	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91646	04/16/12 15:18	TDW	TAL TAL
Total/NA	Analysis	SM 2540D		1	123237	04/12/12 07:25	TO	TAL TAM
Total/NA	Prep	351.2			123230	04/11/12 18:00	TO	TAL TAM
Total/NA	Analysis	351.2		1	123283	04/12/12 17:56	TO	TAL TAM
Total/NA	Analysis	353.2		1	123399	04/17/12 11:20	KW	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123400	04/17/12 14:20	RWF	TAL TAM

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Client Sample ID: Alley

Lab Sample ID: 660-46994-7

Date Collected: 04/06/12 10:00

Matrix: Water

Date Received: 04/07/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			33066	04/12/12 10:36	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	33541	04/17/12 13:03	RR	TAL PIT
Total/NA	Prep	365.2/365.3/365			91613	04/16/12 10:00	TDW	TAL TAL
Total/NA	Analysis	365.1		1	91646	04/16/12 15:22	TDW	TAL TAL
Total/NA	Analysis	SM 2540D		1	123237	04/12/12 07:25	TO	TAL TAM
Total/NA	Prep	351.2			123230	04/11/12 18:00	TO	TAL TAM
Total/NA	Analysis	351.2		1	123283	04/12/12 17:57	TO	TAL TAM
Total/NA	Analysis	353.2		1	123399	04/17/12 11:21	KW	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123400	04/17/12 14:20	RWF	TAL TAM

Laboratory References:

- = Sanders Laboratories Inc., 1050 Endeavor Ct., Nokomis, FL 34275
- TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058
- TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994
- TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427



Certification Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Tampa	Alabama	State Program	4	40610
TestAmerica Tampa	Florida	NELAC	4	E84282
TestAmerica Tampa	Georgia	State Program	4	905
TestAmerica Tampa	USDA	Federal		P330-11-00177
TestAmerica Pittsburgh	Arkansas DEQ	State Program	6	88-0690
TestAmerica Pittsburgh	California	NELAC	9	4224CA
TestAmerica Pittsburgh	Connecticut	State Program	1	PH-0688
TestAmerica Pittsburgh	Florida	NELAC	4	E871008
TestAmerica Pittsburgh	Illinois	NELAC	5	002602
TestAmerica Pittsburgh	Kansas	NELAC	7	E-10350
TestAmerica Pittsburgh	L-A-B	DoD ELAP		L2314
TestAmerica Pittsburgh	Louisiana	NELAC	6	04041
TestAmerica Pittsburgh	New Hampshire	NELAC	1	203011
TestAmerica Pittsburgh	New Jersey	NELAC	2	PA005
TestAmerica Pittsburgh	New York	NELAC	2	11182
TestAmerica Pittsburgh	North Carolina DENR	State Program	4	434
TestAmerica Pittsburgh	Pennsylvania	NELAC	3	02-00416
TestAmerica Pittsburgh	Pennsylvania	State Program	3	02-416
TestAmerica Pittsburgh	South Carolina	State Program	4	89014002
TestAmerica Pittsburgh	USDA	Federal		P330-10-00139
TestAmerica Pittsburgh	USDA	Federal		P-Soil-01
TestAmerica Pittsburgh	Utah	NELAC	8	STLP
TestAmerica Pittsburgh	Virginia	NELAC	3	460189
TestAmerica Pittsburgh	West Virginia DEP	State Program	3	142
TestAmerica Pittsburgh	Wisconsin	State Program	5	998027800
TestAmerica Tallahassee	Florida	NELAC	4	E81005
TestAmerica Tallahassee	Louisiana	NELAC	6	30663
TestAmerica Tallahassee	New Jersey	NELAC	2	FL012
TestAmerica Tallahassee	Oklahoma	State Program	6	9986
TestAmerica Tallahassee	Texas	NELAC	6	T104704459-11-2
TestAmerica Tallahassee	USDA	Federal		P330-08-00158

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL PIT
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL TAM
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL TAM
365.1	Phosphorus, Total	EPA	TAL TAL
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL TAM
Total Nitrogen	Nitrogen, Total	EPA	TAL TAM
Enterococcus and Fecal Coliform	Microbiology	NONE	

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

= Sanders Laboratories Inc., 1050 Endeavor Ct., Nokomis, FL 34275

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

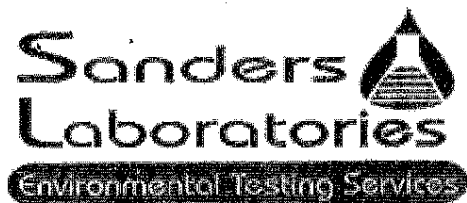
Sample Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-46994-1	1A	Water	04/06/12 07:45	04/07/12 08:30
660-46994-2	3B	Water	04/06/12 08:15	04/07/12 08:30
660-46994-3	7B	Water	04/06/12 08:30	04/07/12 08:30
660-46994-4	8B	Water	04/06/12 09:00	04/07/12 08:30
660-46994-5	9B	Water	04/06/12 09:15	04/07/12 08:30
660-46994-6	10B	Water	04/06/12 09:30	04/07/12 08:30
660-46994-7	Alley	Water	04/06/12 10:00	04/07/12 08:30

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Laboratory Test Report

Lab Project #: F1204081

Page 1 of 11

All subsequent pages are identified by: F1204081 . These pages may include, but are not limited to: Analytical Data, Chains of Custodys, Subcontracted Data and Case Narratives.

Client: Test America Tampa

Attn: Nancy Robertson
6712 Benjamin Rd Suite 10
Tampa, FL 33634
Phone: 813-885-7427
Fax:
E-mail:
Project Name: MACTEC

Questions regarding this report should be directed to your **Laboratory Contact:**

QUALIFIER DEFINITIONS

- B: Results based upon colony counts outside the acceptable range.
 - I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.
 - J: Estimated Value.
 - J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.
 - K: Off scale low, actual value is known to be less than the value given.
 - L: Off scale high, actual value is known to be greater than the value given.
 - Q: Sample held beyond acceptable holding time.
 - U: The compound was analyzed for, but not detected.
 - V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.
 - Y: The laboratory analysis was from an improperly preserved sample.
 - Z: Too many colonies were present for accurate counting.
- HACH results may not meet NELAC standards.

A statement of estimated uncertainty of results is available upon request.

Analytical results provided relate only to the samples received for this project.

Test results meet all the requirements of the NELAC standards, unless otherwise noted.

Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.

Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Laboratory PQL's are available upon request.

Reports are archived for a minimum of 5 years. Copies of reports which are less than 1 year old are available for a fee of \$25.00 per report. Reports older than 1 year are available for a fee of \$50.00 per report. Copies will be provided within 1 week of the time of the request.

Approved by:

Comments:



Radica Koutselas/QA Officer
Jeff Walsh/Project Manager

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Page: Page 4 of 5

Client Project: MACTEC

Lab Project: F1204081

Report Date: 04/11/12

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-18	11A	Surface Water	GRAB	4/5/12 12:30	4/5/12 10:25

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	185		1	1	MPN/100ml	Enterolert	FB120410005	4/5/12 13:50	LV	E85457
Fecal Coliform, MF	1080	B	90	90	CFU/100ml	SM9222D	FB120410002	4/5/12 13:15	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-19	11B	Surface Water	GRAB	4/5/12 12:30	4/5/12 10:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	93		1	1	MPN/100ml	Enterolert	FB120410005	4/5/12 13:50	LV	E85457
Fecal Coliform, MF	100	U	100	100	CFU/100ml	SM9222D	FB120410002	4/5/12 13:15	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-20	11 PUMP	Surface Water	GRAB	4/5/12 15:15	4/5/12 11:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	1730		1	1	MPN/100ml	Enterolert	FB120410005	4/5/12 15:30	LV	E85457
Fecal Coliform, MF	9910	B	90	90	CFU/100ml	SM9222D	FB120410004	4/5/12 15:30	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-21	BC	Surface Water	GRAB	4/5/12 15:15	4/5/12 12:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	961		1	1	MPN/100ml	Enterolert	FB120410005	4/5/12 15:30	LV	E85457
Fecal Coliform, MF	1	U	100	100	CFU/100ml	SM9222D	FB120410004	4/5/12 15:30	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-22	1A	Surface Water	GRAB	4/6/12 12:30	4/6/12 7:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	96		1	1	MPN/100ml	Enterolert	FB120411006	4/6/12 13:00	LV	E85457
Fecal Coliform, MF	180	B	90	90	CFU/100ml	SM9222D	FB120411005	4/6/12 12:30	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1204081-23	3B	Surface Water	GRAB	4/6/12 12:30	4/6/12 8:15

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	140		1	1	MPN/100ml	Enterolert	FB120411006	4/6/12 13:00	LV	E85457
Fecal Coliform, MF	1440	B	90	90	CFU/100ml	SM9222D	FB120411005	4/6/12 12:30	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
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Nokomis Lab ~ 1050 Endeavor Ct. ~ Nokomis, FL 34275-3623 ~ Phone: 941-488-8103 ~ Fax: 941-484-6774 ~ DOH Certification # E84380
 Fort Myers Lab ~ 10090 Bavaria Road ~ Fort Myers, FL 33913 ~ Phone: 239-590-0337 ~ Fax: 239-590-0536 ~ DOH Certification # E85457

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Page: Page 5 of 5

Client Project: MACTEC

Lab Project: F1204081

Report Date: 04/11/12

<u>Lab ID</u>	<u>Sample Description</u>	<u>Matrix</u>	<u>Sample Type</u>	<u>Received Date/Time</u>	<u>Sample Date/Time</u>					
F1204081-24	7B	Surface Water	GRAB	4/6/12 12:30	4/6/12 8:30					
Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	118		1	1	MPN/100ml	Enterolert	FB120411006	4/6/12 13:00	LV	E85457
Fecal Coliform, MF	100	U	100	100	CFU/100ml	SM9222D	FB120411005	4/6/12 12:30	LV	E85457
<u>Lab ID</u>	<u>Sample Description</u>	<u>Matrix</u>	<u>Sample Type</u>	<u>Received Date/Time</u>	<u>Sample Date/Time</u>					
F1204081-25	8B	Surface Water	GRAB	4/6/12 12:30	4/6/12 9:00					
Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	270		1	1	MPN/100ml	Enterolert	FB120411006	4/6/12 13:00	LV	E85457
Fecal Coliform, MF	100	U	100	100	CFU/100ml	SM9222D	FB120411005	4/6/12 12:30	LV	E85457
<u>Lab ID</u>	<u>Sample Description</u>	<u>Matrix</u>	<u>Sample Type</u>	<u>Received Date/Time</u>	<u>Sample Date/Time</u>					
F1204081-26	9B	Surface Water	GRAB	4/6/12 12:30	4/6/12 9:15					
Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	34		1	1	MPN/100ml	Enterolert	FB120411006	4/6/12 13:00	LV	E85457
Fecal Coliform, MF	100	U	100	100	CFU/100ml	SM9222D	FB120411005	4/6/12 12:30	LV	E85457
<u>Lab ID</u>	<u>Sample Description</u>	<u>Matrix</u>	<u>Sample Type</u>	<u>Received Date/Time</u>	<u>Sample Date/Time</u>					
F1204081-27	10B	Surface Water	GRAB	4/6/12 12:30	4/6/12 9:30					
Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	182		1	1	MPN/100ml	Enterolert	FB120411006	4/6/12 13:00	LV	E85457
Fecal Coliform, MF	721	B	90	90	CFU/100ml	SM9222D	FB120411005	4/6/12 12:30	LV	E85457
<u>Lab ID</u>	<u>Sample Description</u>	<u>Matrix</u>	<u>Sample Type</u>	<u>Received Date/Time</u>	<u>Sample Date/Time</u>					
F1204081-28	ALLEY	Surface Water	GRAB	4/6/12 12:30	4/6/12 10:00					
Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	100	U	100	100	MPN/100ml	Enterolert	FB120411006	4/6/12 13:00	LV	E85457
Fecal Coliform, MF	2160	B	90	90	CFU/100ml	SM9222D	FB120411005	4/6/12 12:30	LV	E85457



CHAIN-OF-CUSTODY RECORD

PROJECT # F1204081

Page 1 of 1

5/4/2012

Client: TEST AMERICA
Address: TAMPA

Report To: TEST AMERICA
Bill To: SAME
P.O. #

Project Name: NAPLES STORM WATER
Project Location: FOR AMEC
Customer Type: FOR AMEC

Phone: Fax:

Preservative: HCl = H, HNO₃ = N, Na₂SO₃ = ST, H₂SO₄ = S, NaOH = SH, NH₄Cl = NH

Kit #: REQUESTED DUE DATE: 4/16/12

Matrix	SAMPLE DESCRIPTION	Sample			PRESERVATIVES		ANALYSES REQUEST		Sample ID #
		DATE	TIME	TYPE	pH	ICE			
SW	1 A	4/16/12	745	Grab	✓				-22A
	3 B		815						-23A
	7 B		830						-24A
	8 B		900						-25A
	9 B		915						-26A
	10 B		930						-27A
	ALLEY		1000						-28A
Bottle Lot #		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME		
		Sanders / AMEC	4/6	123	M. Williams	4/16	1230		
COMMENTS:	OKAY TO RUN AS IS. CLIENT INITIAL: SAMPLES ON ICE Yes No								

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica West Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

TestAmerica Job ID: G2D100422
Client Project/Site: 660-46994
Client Project Description: 660-46994

For:
TestAmerica Tampa
6712 Benjamin Road STE 100
Tampa, FL 33634

Attn: Nancy Robertson



Authorized for release by:
5/3/2012 1:17:44 PM

Jeremy Sadler
Project Manager
jeremy.sadler@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: TestAmerica Tampa
Project/Site: 660-46994

TestAmerica Job ID: G2D100422

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)



Case Narrative

TestAmerica West Sacramento Project Number G2D100422

WATER, 1694, Caffeine

Sample: 1

This sample was re-extracted outside of hold and analyzed at a dilution due to matrix interference.

The percent difference values for analytes listed below are above the method acceptance limit in the continuing calibration standard, indicating a high bias. This standard was analyzed prior to the associated samples. As the associated samples are non-detect and there is a potential for a high bias, there is no adverse impact on the data quality.

The surrogate recovery for Sucralose-d6 is less than the method recommended goal. This sample is impacted by matrix interference.

There were no other anomalies associated with this project.

Detection Summary

Client: TestAmerica Tampa
Project/Site: 660-46994

TestAmerica Job ID: G2D100422

Client Sample ID: ALLEY (660-46994-7)

Lab Sample ID: G2D100422001

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Caffeine	550		50	13	ng/L	1.01		1694	Total

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Client Sample Results

Client: TestAmerica Tampa
 Project/Site: 660-46994

TestAmerica Job ID: G2D100422

Client Sample ID: ALLEY (660-46994-7)

Lab Sample ID: G2D100422001

Date Collected: 04/06/12 10:00

Matrix: Water

Date Received: 04/10/12 08:55

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caffeine	550		50	13	ng/L		04/11/12 09:25	04/14/12 14:26	1.01
Sucralose	ND		10000	5000	ng/L		04/19/12 14:30	04/25/12 04:31	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3-Caffeine	58		25 - 150				04/11/12 09:25	04/14/12 14:26	1.01
Sucralose-d6	68		25 - 150				04/19/12 14:30	04/25/12 04:31	20



Surrogate Summary

Client: TestAmerica Tampa
Project/Site: 660-46994

TestAmerica Job ID: G2D100422

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Matrix: Water

Prep Type: Total

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	13C3-Caffeine (25-150)	
G2D100422001	ALLEY (660-46994-7)	58	
G2D110000077B	Method Blank	44	
G2D110000077C	Lab Control Sample	50	

Surrogate Legend
13C3-Caffeine = 13C3-Caffeine

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Matrix: Water

Prep Type: Total

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Sucralose-d (25-150)	
G2D100422001	ALLEY (660-46994-7)	68	
G2D190000139B	Method Blank	93	
G2D190000139C	Lab Control Sample	117	

Surrogate Legend
Sucralose-d6 = Sucralose-d6

QC Sample Results

Client: TestAmerica Tampa
Project/Site: 660-46994

TestAmerica Job ID: G2D100422

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Lab Sample ID: G2D110000077B
Matrix: Water
Analysis Batch: 2102077

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 2102077_P

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Caffeine	ND		50	13	ng/L		04/11/12 09:25	04/14/12 13:25	1
Surrogate	MB MB		Limits	LCS	LCS	Unit	Prepared	Analyzed	Dil Fac
%Recovery	Qualifier								
13C3-Caffeine	44		25 - 150				04/11/12 09:25	04/14/12 13:25	1

Lab Sample ID: G2D110000077C
Matrix: Water
Analysis Batch: 2102077

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 2102077_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.		
							Limits		
Caffeine	100	89.3		ng/L		89	60 - 140		
Surrogate	LCS LCS		Limits	LCS	LCS	Unit	Prepared	Analyzed	Dil Fac
%Recovery	Qualifier								
13C3-Caffeine	50		25 - 150						

Lab Sample ID: G2D190000139B
Matrix: Water
Analysis Batch: 2110139

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 2110139_P

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sucralose	ND		500	250	ng/L		04/19/12 14:30	04/24/12 23:55	1
Surrogate	MB MB		Limits	LCS	LCS	Unit	Prepared	Analyzed	Dil Fac
%Recovery	Qualifier								
Sucralose-d6	93		25 - 150				04/19/12 14:30	04/24/12 23:55	1

Lab Sample ID: G2D190000139C
Matrix: Water
Analysis Batch: 2110139

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 2110139_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.		
							Limits		
Sucralose	500	622		ng/L		124	60 - 140		
Surrogate	LCS LCS		Limits	LCS	LCS	Unit	Prepared	Analyzed	Dil Fac
%Recovery	Qualifier								
Sucralose-d6	117		25 - 150						

QC Association Summary

Client: TestAmerica Tampa
Project/Site: 660-46994

TestAmerica Job ID: G2D100422

HPLC

Analysis Batch: 2102077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G2D100422001	ALLEY (660-46994-7)	Total	Water	1694	
G2D110000077B	Method Blank	Total	Water	1694	
G2D110000077C	Lab Control Sample	Total	Water	1694	

Analysis Batch: 2110139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G2D100422001	ALLEY (660-46994-7)	Total	Water	1694	
G2D190000139B	Method Blank	Total	Water	1694	
G2D190000139C	Lab Control Sample	Total	Water	1694	

Prep Batch: 2102077_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G2D100422001	ALLEY (660-46994-7)	Total	Water	EXTRACTION, SOLID PHASE	
G2D110000077B	Method Blank	Total	Water	EXTRACTION, SOLID PHASE	
G2D110000077C	Lab Control Sample	Total	Water	EXTRACTION, SOLID PHASE	

Prep Batch: 2110139_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G2D100422001	ALLEY (660-46994-7)	Total	Water	EXTRACTION, SOLID PHASE	
G2D190000139B	Method Blank	Total	Water	EXTRACTION, SOLID PHASE	
G2D190000139C	Lab Control Sample	Total	Water	EXTRACTION, SOLID PHASE	

Lab Chronicle

Client: TestAmerica Tampa
Project/Site: 660-46994

TestAmerica Job ID: G2D100422

Client Sample ID: ALLEY (660-46994-7)

Lab Sample ID: G2D100422001

Date Collected: 04/06/12 10:00

Matrix: Water

Date Received: 04/10/12 08:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EXTRACTION, SOLID PHASE			2102077_P	04/11/12 09:25	HJA	TAL WSC
Total	Analysis	1694		1.01	2102077	04/14/12 14:26	NS	TAL WSC
Total	Prep	EXTRACTION, SOLID PHASE			2110139_P	04/19/12 14:30	JR	TAL WSC
Total	Analysis	1694		20	2110139	04/25/12 04:31	NS	TAL WSC

Laboratory References:

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Certification Summary

Client: TestAmerica Tampa
Project/Site: 660-46994

TestAmerica Job ID: G2D100422

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica West Sacramento	A2LA	DoD ELAP		2928-01
TestAmerica West Sacramento	Alaska (UST)	State Program	10	UST-055
TestAmerica West Sacramento	Arizona	State Program	9	AZ0708
TestAmerica West Sacramento	Arkansas DEQ	State Program	6	88-0691
TestAmerica West Sacramento	California	NELAC	9	1119CA
TestAmerica West Sacramento	Colorado	State Program	8	N/A
TestAmerica West Sacramento	Connecticut	State Program	1	PH-0691
TestAmerica West Sacramento	Florida	NELAC	4	E87570
TestAmerica West Sacramento	Georgia	State Program	4	960
TestAmerica West Sacramento	Guam	State Program	9	N/A
TestAmerica West Sacramento	Hawaii	State Program	9	N/A
TestAmerica West Sacramento	Illinois	NELAC	5	200060
TestAmerica West Sacramento	Kansas	NELAC	7	E-10375
TestAmerica West Sacramento	Louisiana	NELAC	6	30612
TestAmerica West Sacramento	Michigan	State Program	5	9947
TestAmerica West Sacramento	Nevada	State Program	9	CA44
TestAmerica West Sacramento	New Jersey	NELAC	2	CA005
TestAmerica West Sacramento	New Mexico	State Program	6	N/A
TestAmerica West Sacramento	New York	NELAC	2	11666
TestAmerica West Sacramento	Northern Mariana Islands	State Program	9	MP0007
TestAmerica West Sacramento	Oregon	NELAC	10	CA200005
TestAmerica West Sacramento	Pennsylvania	NELAC	3	68-01272
TestAmerica West Sacramento	South Carolina	State Program	4	87014
TestAmerica West Sacramento	Texas	NELAC	6	T104704399-08-TX
TestAmerica West Sacramento	US Fish & Wildlife	Federal		LE148388-0
TestAmerica West Sacramento	USDA	Federal		P330-09-00055
TestAmerica West Sacramento	Utah	NELAC	8	QUAN1
TestAmerica West Sacramento	Virginia	State Program	3	178
TestAmerica West Sacramento	Washington	State Program	10	C581
TestAmerica West Sacramento	West Virginia	State Program	3	9930C
TestAmerica West Sacramento	West Virginia DEP	State Program	3	334
TestAmerica West Sacramento	Wisconsin	State Program	5	998204680
TestAmerica West Sacramento	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: TestAmerica Tampa
Project/Site: 660-46994

TestAmerica Job ID: G2D100422

Method	Method Description	Protocol	Laboratory
1694	Pharmaceuticals, HPLC/MS/MS (1694)	CFR136A	TAL WSC

Protocol References:

CFR136A = CFR136A

Laboratory References:

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Sample Summary

Client: TestAmerica Tampa
Project/Site: 660-46994

TestAmerica Job ID: G2D100422

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
G2D100422001	ALLEY (660-46994-7)	Water	04/06/12 10:00	04/10/12 08:55

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- 14

Chain of Custody Record

627166422

Client Information (Sub Contract Lab)		Lab PM: Robertson, Nancy	Carrier Tracking No(s):	COC No: 660-44025-1
Shipping/Receiving		E-Mail: nancy.robertson@testamericainc.com		Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Job #: 660-46994-1		
Address: 880 Riverside Parkway,		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		
City: West Sacramento		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)		
State, Zip: CA, 95605		Analysis Requested		
Phone: 916-373-5600(Tel)		Total Number of Containers		
Email:		SUBCONTRACT/ Caffeine, Sucralose		
Project Name: City of Naples Stormwater		Perform MS/MSD (Yes or No)		
Site:		Field Filtered Sample (Yes or No)		
Due Date Requested: 4/16/2012		Matrix		
TAT Requested (days):		Sample Type (C=Comp, G=grab)		
PO #:		Sample Time		
WO #:		Sample Date		
Project #: 66003057		Preservation Code		
SSOW#:		Water		
Sample Identification - Client ID (Lab ID)		Special Instructions/Note:		
Alley (660-46994-7)		1		
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
Unconfirmed		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:		
Empty Kit Relinquished by:		Method of Shipment:		
Relinquished by: <i>[Signature]</i>		Date/Time: 4/19/12 17:20		
Relinquished by:		Date/Time: 4/19/12 7:40		
Relinquished by:		Date/Time:		
Custody Seal No.: 509486		Company: TPL Company		
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Company: TPL Company		
Cooler Temperature(s) °C and Other Remarks: 1.6		Company: TPL Company		



Chain of Custody Record

Client Information (Sub Contract Lab) Company: TestAmerica Laboratories, Inc. Address: 880 Riverside Parkway City: West Sacramento State, Zip: CA, 95605 Phone: 916-373-5600(Tel) Email: Project Name: City of Naples Stormwater Site:		Lab PM: Robertson, Nancy E-Mail: nancy.robertson@testamericainc.com Carrier/Tracking No(s): Lab #: 660-46994-1 Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchler H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - Nene O - AsNaO2 P - Na2OHS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Sample Information Due Date Requested: 4/16/2012 TAT Requested (days): PO #: WO #: Project #: 66003657 SSOW#:		Total Number of Containers: 1 Special Instructions/Note: SUBCONTRACT/ Caffeine, Sucrose Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No)	
Sample Identification - Client ID (Lab ID) Alley (660-46994-7)		Matrix (Water, Soils, On-water, Air) Sample Type (C=Comp, G=grab) Sample Time: 10:00 Eastern Sample Date: 4/6/12 Preservation Code:	
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)			
Relinquished by: <i>Charles Edwards</i> Relinquished by:		Received by: <i>[Signature]</i> Received by:	
Date/Time: 4/18/12 1719 Date/Time:		Date/Time: 4/19/12 1240 Date/Time:	
Relinquished by:		Received by:	
Date/Time:		Date/Time:	
Custody Seals Intact: A Yes A No		Cooler Temperature(s) °C and Other Remarks:	



LOT RECEIPT CHECKLIST TestAmerica West Sacramento

CLIENT TAL TAMPA PM JS

LOT# (QUANTIMS ID) G2D100422 QUOTE# 35474 LOCATION W17C

DATE RECEIVED 4/10/12 TIME RECEIVED 855 Checked (✓)

DELIVERED BY FEDEX ON TRAC OTHER
 GOLDENSTATE UPS EZ PARCEL
 TAL COURIER TAL SF CLIENT

SHIPPING CONTAINER(S) TAL CLIENT N/A
 MULT-COOLER(S) (If checked see multi-cooler form)

SINGLE COOLER INFORMATION N/A

CUSTODY SEAL STATUS INTACT BROKEN N/A

CUSTODY SEAL #(S) 509486

COC #(S) 660-44025.1

TEMPERATURE BLANK Observed: NA Corrected: NA

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)
 Observed: 2.0 Average 2.0 Corrected Average 1.6

LABORATORY THERMOMETER ID:

IR UNIT: #4 #5 OTHER

JS 4/10/12
 Initials Date

=====

pH MEASURED YES ANOMALY N/A

LABELLED BY..... JS

LOGGED IN BY..... JS

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM N/A

VOA-ENCORES N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES N/A

CLOUSEAU TEMPERATURE EXCEEDED (0 °C – 6 °C)^{*1} N/A
 WET ICE BLUE ICE GEL PACK NO COOLING AGENTS USED

JS 4/10/12
 Initials Date

Notes Additional sample volume was received on 4/19/12 at 1.1 degree C. JS 4/19/12

*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.



Lot ID: G2D100422

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
VOA*																					
VOAh*																					
VOAmeoh																					
AGB	1																				
AGBs																					
250AGB																					
250AGBs																					
250AGBn																					
500AGB																					
____AGJ																					
500AGJ																					
250AGJ																					
125AGJ																					
125AGJmeoh																					
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125CGJ																					
PJ	1																				
PJn																					
500PJ																					
500PJn																					
500PJna																					
500PJzn/na																					
250PJ																					
250PJn																					
250PJna																					
250PJzn/na																					
Acetate Tube																					
____"CT																					
Encore																					
Folder/filter																					
PUF																					
Petri/Filter																					
XAD Trap																					
Ziploc																					

h = hydrochloric acid s = sulfuric acid na = sodium hydroxide n = nitric acid zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's



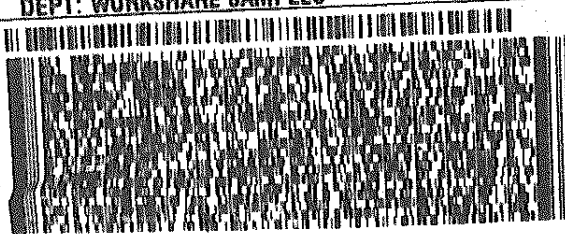
ORIGIN ID: TPFA (813) 885-7427
CUSTODY
TESTAMERICA TAMPA
6712 BENJAMIN ROAD
SUITE 100
TAMPA, FL 33634
UNITED STATES US

SHIP DATE: 18APR12
ACTWGT: 45.6 LB
CAD: 842522/CAFE2511
DIMS: 24x14x13 IN

BILL RECIPIENT

TO

TEST AMERICA/SACRAMENTO
880 RIVERSIDE PARKWAY
CUSTODY
WEST SACRAMENTO CA 956051500
(916) 373-5600
DEPT: WORKSHARE SAMPLES



FedEx
Express



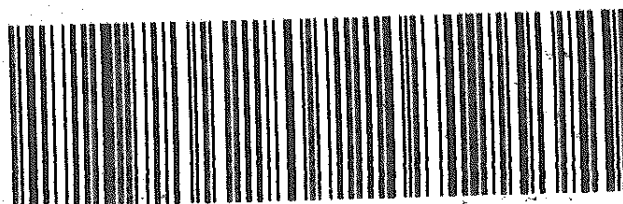
THU - 19 APR A1
STANDARD OVERNIGHT

TRK# 5269 1727 4972
0201

XH BLUA

95605
CA-US SMF

Part # 156148-434 RIT2 07/11



TestAmerica Tampa
 6712 Benjamin Road Suite 100
 Tampa, FL 33634
 Phone (813) 885-7427 Fax (813) 885-7049

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information
 Client Contact: *Sam Alden / T. Bates*
 Phone: *239 564 8483*
 Company: AMEC E&I, Inc
 Address: 2222 Industrial Blvd., Suite 155
 City: Naples
 State, Zip: FL 34104
 Phone: 239-564-8483 (Tel)
 Email: *tdbates@macrec.com*
 Project Name: *66003057*
 City of Naples Stormwater
 Site: *SSOW#:*

Lab POC: Robertson, Nancy
E-Mail: nancy.robertson@testamericainc.com
Carrier Tracking No(s):
COC No: 660-40477-13180.4
Page: 4 of 7
Job #: *1610-4109914*

Due Date Requested: *Standard*
TAT Requested (days):
PO #: 201103312
W/O #:
Project #: 66003057
SSOW#:

Sample Identification	Sample Date	Sample Time	Sample Type (G=Comp, G=Grab)	Matrix (Metal, Solid, Overwater, etc.)	Preservation Code	Field Filtered Sample (Yes or No)		Performance MS/MSD (Yes or No)		Analysis Requested	Total Number of containers	Special Instructions/Note:
						D	S	D	S			
1A	4/6/12	745	G	Water	N	N	X	X				
3B		815		Water			X	X				
7B		830		Water			X	X				
8B		900		Water			X	X				
9B		915		Water			X	X				
10B		930		Water			X	X				
ALLEY		1000		Water			X	X				

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: _____
 Relinquished by: *T. Bates to FEDEX* Date/Time: *4/6/12 1715*
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Yes No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Received by: *T. Bates to FEDEX* Date/Time: *3/30/12 1600* Company: *AMEC*
Relinquished by: *T. Bates to FEDEX* Date/Time: *4/6/12 830* Company: *Tampa*
Carrier Temperature(s) °C and Other Remarks: *2.1, 2.1, 2.1, 2.1, 2.1*

Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-46994-1

Login Number: 46994

List Number: 1

Creator: Edwards, Erricka

List Source: TestAmerica Tampa

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	2.1,2.6c CU-07
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-46994-1

Login Number: 46994

List Number: 1

Creator: Mitchell, Travis X

List Source: TestAmerica Tallahassee

List Creation: 04/11/12 03:32 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



Quarter 2

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Tampa
6712 Benjamin Road
Suite 100
Tampa, FL 33634
Tel: (813)885-7427

TestAmerica Job ID: 660-48691-1

Client Project/Site: City of Naples Stormwater 2012

For:

AMEC Environment & Infrastructure, Inc.
222 Industrial Blvd., Suite 155
Naples, Florida 34104

Attn: Mr. Tom Bates



Authorized for release by:
7/30/2012 11:58:13 AM

Nancy Robertson
Project Manager II
nancy.robertson@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-48691-1

Qualifiers

Metals

Qualifier	Qualifier Description
V	Indicates the analyte was detected in both the sample and the associated method blank.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

General Chemistry

Qualifier	Qualifier Description
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-48691-1

Job ID: 660-48691-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative
660-48691-1

Comments

No additional comments.

Receipt

The samples were received on 7/6/2012 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.6° C.

Metals

Method 200.8: The method blank had an estimated result for copper between the MDL and PQL. The samples results are greater than 4 times the method blank. The samples are flagged with V.

No other analytical or quality issues were noted.

General Chemistry

Method 351.2: The matrix spike (MS) recovery for batch 243566 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 365.1: The matrix spike (MS) recovery for batch 94412 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

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Detection Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-48691-1

Client Sample ID: 14 PUMP

Lab Sample ID: 660-48691-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Copper	45	V	2.0	0.14	ug/L	1			200.8	Total Recoverable
Nitrogen, Kjeldahl	0.86		0.20	0.15	mg/L	1			351.2	Total/NA
Nitrate Nitrite as N	0.047	I	0.050	0.010	mg/L	1			353.2	Total/NA
Phosphorus	0.15		0.010	0.0044	mg/L	1			365.1	Total/NA
Total Suspended Solids	54		1.0	1.0	mg/L	1			SM 2540D	Total/NA
Nitrogen, Total	0.91		0.25	0.25	mg/L	1			Total Nitrogen	Total/NA

Client Sample ID: 11 PUMP

Lab Sample ID: 660-48691-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Copper	2.9	V	2.0	0.14	ug/L	1			200.8	Total Recoverable
Nitrogen, Kjeldahl	1.3		0.20	0.15	mg/L	1			351.2	Total/NA
Nitrate Nitrite as N	0.22		0.050	0.010	mg/L	1			353.2	Total/NA
Phosphorus	0.14		0.010	0.0044	mg/L	1			365.1	Total/NA
Total Suspended Solids	4.0		1.0	1.0	mg/L	1			SM 2540D	Total/NA
Nitrogen, Total	1.5		0.25	0.25	mg/L	1			Total Nitrogen	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Caffeine	630		52	13	ng/L	1.03			1694	Total

Client Sample ID: PW PUMP

Lab Sample ID: 660-48691-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Copper	8.2	V	2.0	0.14	ug/L	1			200.8	Total Recoverable
Nitrogen, Kjeldahl	0.92		0.20	0.15	mg/L	1			351.2	Total/NA
Nitrate Nitrite as N	0.27		0.050	0.010	mg/L	1			353.2	Total/NA
Phosphorus	0.080		0.010	0.0044	mg/L	1			365.1	Total/NA
Total Suspended Solids	7.6		1.0	1.0	mg/L	1			SM 2540D	Total/NA
Nitrogen, Total	1.2		0.25	0.25	mg/L	1			Total Nitrogen	Total/NA

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-48691-1

Client Sample ID: 14 PUMP

Lab Sample ID: 660-48691-1

Date Collected: 07/05/12 11:45

Matrix: Water

Date Received: 07/06/12 08:50

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	45	V	2.0	0.14	ug/L		07/11/12 10:29	07/12/12 17:20	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.86		0.20	0.15	mg/L		07/16/12 08:35	07/17/12 13:09	1
Nitrate Nitrite as N	0.047	I	0.050	0.010	mg/L			07/18/12 10:43	1
Phosphorus	0.15		0.010	0.0044	mg/L		07/23/12 15:03	07/24/12 15:51	1
Total Suspended Solids	54		1.0	1.0	mg/L			07/11/12 06:29	1
Nitrogen, Total	0.91		0.25	0.25	mg/L			07/18/12 12:02	1

Client Sample ID: 11 PUMP

Lab Sample ID: 660-48691-2

Date Collected: 07/05/12 12:30

Matrix: Water

Date Received: 07/06/12 08:50

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caffeine	630		52	13	ng/L		07/09/12 19:00	07/25/12 00:21	1.03

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3-Caffeine	122		25 - 150	07/09/12 19:00	07/25/12 00:21	1.03

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.9	V	2.0	0.14	ug/L		07/11/12 10:29	07/12/12 17:25	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.3		0.20	0.15	mg/L		07/16/12 08:35	07/17/12 13:09	1
Nitrate Nitrite as N	0.22		0.050	0.010	mg/L			07/18/12 10:45	1
Phosphorus	0.14		0.010	0.0044	mg/L		07/23/12 15:03	07/24/12 15:53	1
Total Suspended Solids	4.0		1.0	1.0	mg/L			07/11/12 06:29	1
Nitrogen, Total	1.5		0.25	0.25	mg/L			07/18/12 12:02	1

Client Sample ID: PW PUMP

Lab Sample ID: 660-48691-3

Date Collected: 07/05/12 13:40

Matrix: Water

Date Received: 07/06/12 08:50

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	8.2	V	2.0	0.14	ug/L		07/11/12 10:29	07/12/12 17:29	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.92		0.20	0.15	mg/L		07/16/12 08:35	07/17/12 13:09	1
Nitrate Nitrite as N	0.27		0.050	0.010	mg/L			07/18/12 10:48	1
Phosphorus	0.080		0.010	0.0044	mg/L		07/23/12 15:03	07/24/12 15:54	1
Total Suspended Solids	7.6		1.0	1.0	mg/L			07/11/12 06:29	1
Nitrogen, Total	1.2		0.25	0.25	mg/L			07/18/12 12:02	1

Surrogate Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-48691-1

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Matrix: Water

Prep Type: Total

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	3C3-Caffein (25-150)
660-48691-2	11 PUMP	122
G2G090000140B	Method Blank	38
G2G090000140C	Lab Control Sample	44

Surrogate Legend

13C3-Caffeine = 13C3-Caffeine

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-48691-1

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Lab Sample ID: G2G090000140B
Matrix: Water
Analysis Batch: 2191140

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 2191140_P

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caffeine	ND		50	13	ng/L		07/09/12 19:00	07/24/12 23:20	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3-Caffeine	38		25 - 150				07/09/12 19:00	07/24/12 23:20	1

Lab Sample ID: G2G090000140C
Matrix: Water
Analysis Batch: 2191140

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 2191140_P

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Caffeine	100	70.3		ng/L		70	60 - 140
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
13C3-Caffeine	44		25 - 150				

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 180-41348/1-A
Matrix: Water
Analysis Batch: 41591

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 41348

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.524	I	2.0	0.14	ug/L		07/11/12 10:29	07/12/12 16:31	1

Lab Sample ID: LCS 180-41348/2-A
Matrix: Water
Analysis Batch: 41591

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 41348

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Copper	250	220		ug/L		88	85 - 115

Lab Sample ID: 180-12207-E-1-B MS
Matrix: Water
Analysis Batch: 41591

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 41348

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Copper	2.2	V	250	226		ug/L		89	70 - 130

Lab Sample ID: 180-12207-E-1-C MSD
Matrix: Water
Analysis Batch: 41591

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 41348

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Copper	2.2	V	250	221		ug/L		88	70 - 130	2	20

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-48691-1

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 680-243447/2-A
 Matrix: Water
 Analysis Batch: 243566

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 243447

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.15	U	0.20	0.15	mg/L		07/16/12 08:35	07/17/12 13:00	1

Lab Sample ID: LCS 680-243447/1-A
 Matrix: Water
 Analysis Batch: 243566

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 243447

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	2.00	1.67		mg/L		83	75 - 125

Lab Sample ID: 460-42085-A-1-B MS
 Matrix: Water
 Analysis Batch: 243566

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 243447

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	1.9	J3	2.00	2.97	J3	mg/L		52	75 - 125

Lab Sample ID: 460-42085-A-1-C MSD
 Matrix: Water
 Analysis Batch: 243566

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 243447

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Kjeldahl	1.9	J3	2.00	3.79		mg/L		93	75 - 125	24	40

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-243634/13
 Matrix: Water
 Analysis Batch: 243634

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			07/18/12 10:19	1

Lab Sample ID: LCS 680-243634/14
 Matrix: Water
 Analysis Batch: 243634

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.998	1.05		mg/L		105	90 - 110

Lab Sample ID: 200-11662-B-1 MS
 Matrix: Water
 Analysis Batch: 243634

Client Sample ID: Matrix Spike
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.027	I	0.998	1.11		mg/L		108	90 - 110

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-48691-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 200-11662-B-1 MSD

Matrix: Water

Analysis Batch: 243634

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.027	I	0.998	1.10		mg/L		108	90 - 110	1	10

Lab Sample ID: 640-39446-A-2 DU

Matrix: Water

Analysis Batch: 243634

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.010	U	0.010	U	mg/L		NC	10

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 640-94412/3-A

Matrix: Water

Analysis Batch: 94446

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 94412

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.0044	U	0.010	0.0044	mg/L		07/23/12 15:03	07/24/12 15:27	1

Lab Sample ID: DLCK 640-94412/4-A DLCK

Matrix: Water

Analysis Batch: 94446

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 94412

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.00200	0.0044	U	mg/L		83	70 - 130

Lab Sample ID: LCS 640-94412/5-A

Matrix: Water

Analysis Batch: 94446

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 94412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.300	0.296		mg/L		99	90 - 110

Lab Sample ID: LCSD 640-94412/6-A

Matrix: Water

Analysis Batch: 94446

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 94412

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus	0.300	0.303		mg/L		101	90 - 110	2	30

Lab Sample ID: 180-12569-A-1-B MS

Matrix: Water

Analysis Batch: 94446

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 94412

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.028	J3	0.300	0.388	J3	mg/L		120	90 - 110

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-48691-1

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: 180-12569-A-1-C MSD

Matrix: Water

Analysis Batch: 94446

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 94412

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus	0.028	J3	0.300	0.322		mg/L		98	90 - 110	19	30

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 660-126463/1

Matrix: Water

Analysis Batch: 126463

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1.0	U	1.0	1.0	mg/L			07/11/12 06:29	1

Lab Sample ID: LCS 660-126463/2

Matrix: Water

Analysis Batch: 126463

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	101	97.6		mg/L		97	80 - 120

Lab Sample ID: 660-48691-3 DU

Matrix: Water

Analysis Batch: 126463

Client Sample ID: PW PUMP

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	7.6		9.20		mg/L		19	20

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-48691-1

HPLC

Analysis Batch: 2191140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48691-2	11 PUMP	Total	Water	1694	
G2G090000140B	Method Blank	Total	Water	1694	
G2G090000140C	Lab Control Sample	Total	Water	1694	

Prep Batch: 2191140_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48691-2	11 PUMP	Total	Water	EXTRACTION, SOLID PHASE	
G2G090000140B	Method Blank	Total	Water	EXTRACTION, SOLID PHASE	
G2G090000140C	Lab Control Sample	Total	Water	EXTRACTION, SOLID PHASE	

Metals

Prep Batch: 41348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-12207-E-1-B MS	Matrix Spike	Total Recoverable	Water	200.8	
180-12207-E-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	
660-48691-1	14 PUMP	Total Recoverable	Water	200.8	
660-48691-2	11 PUMP	Total Recoverable	Water	200.8	
660-48691-3	PW PUMP	Total Recoverable	Water	200.8	
LCS 180-41348/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
MB 180-41348/1-A	Method Blank	Total Recoverable	Water	200.8	

Analysis Batch: 41591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-12207-E-1-B MS	Matrix Spike	Total Recoverable	Water	200.8	41348
180-12207-E-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	41348
660-48691-1	14 PUMP	Total Recoverable	Water	200.8	41348
660-48691-2	11 PUMP	Total Recoverable	Water	200.8	41348
660-48691-3	PW PUMP	Total Recoverable	Water	200.8	41348
LCS 180-41348/2-A	Lab Control Sample	Total Recoverable	Water	200.8	41348
MB 180-41348/1-A	Method Blank	Total Recoverable	Water	200.8	41348

General Chemistry

Prep Batch: 94412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-12569-A-1-B MS	Matrix Spike	Total/NA	Water	365.2/365.3/365	
180-12569-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	365.2/365.3/365	
660-48691-1	14 PUMP	Total/NA	Water	365.2/365.3/365	
660-48691-2	11 PUMP	Total/NA	Water	365.2/365.3/365	
660-48691-3	PW PUMP	Total/NA	Water	365.2/365.3/365	
DLCK 640-94412/4-A DLCK	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
LCS 640-94412/5-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
LCSD 640-94412/6-A	Lab Control Sample Dup	Total/NA	Water	365.2/365.3/365	
MB 640-94412/3-A	Method Blank	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 94446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-12569-A-1-B MS	Matrix Spike	Total/NA	Water	365.1	94412

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-48691-1

General Chemistry (Continued)

Analysis Batch: 94446 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-12569-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	365.1	94412
660-48691-1	14 PUMP	Total/NA	Water	365.1	94412
660-48691-2	11 PUMP	Total/NA	Water	365.1	94412
660-48691-3	PW PUMP	Total/NA	Water	365.1	94412
DLCK 640-94412/4-A DLCK	Lab Control Sample	Total/NA	Water	365.1	94412
LCS 640-94412/5-A	Lab Control Sample	Total/NA	Water	365.1	94412
LCS 640-94412/6-A	Lab Control Sample Dup	Total/NA	Water	365.1	94412
MB 640-94412/3-A	Method Blank	Total/NA	Water	365.1	94412

Analysis Batch: 126463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48691-1	14 PUMP	Total/NA	Water	SM 2540D	
660-48691-2	11 PUMP	Total/NA	Water	SM 2540D	
660-48691-3	PW PUMP	Total/NA	Water	SM 2540D	
660-48691-3 DU	PW PUMP	Total/NA	Water	SM 2540D	
LCS 660-126463/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 660-126463/1	Method Blank	Total/NA	Water	SM 2540D	

Prep Batch: 243447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-42085-A-1-B MS	Matrix Spike	Total/NA	Water	351.2	
460-42085-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	
660-48691-1	14 PUMP	Total/NA	Water	351.2	
660-48691-2	11 PUMP	Total/NA	Water	351.2	
660-48691-3	PW PUMP	Total/NA	Water	351.2	
LCS 680-243447/1-A	Lab Control Sample	Total/NA	Water	351.2	
MB 680-243447/2-A	Method Blank	Total/NA	Water	351.2	

Analysis Batch: 243566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-42085-A-1-B MS	Matrix Spike	Total/NA	Water	351.2	243447
460-42085-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	243447
660-48691-1	14 PUMP	Total/NA	Water	351.2	243447
660-48691-2	11 PUMP	Total/NA	Water	351.2	243447
660-48691-3	PW PUMP	Total/NA	Water	351.2	243447
LCS 680-243447/1-A	Lab Control Sample	Total/NA	Water	351.2	243447
MB 680-243447/2-A	Method Blank	Total/NA	Water	351.2	243447

Analysis Batch: 243634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-11662-B-1 MS	Matrix Spike	Total/NA	Water	353.2	
200-11662-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	
640-39446-A-2 DU	Duplicate	Total/NA	Water	353.2	
660-48691-1	14 PUMP	Total/NA	Water	353.2	
660-48691-2	11 PUMP	Total/NA	Water	353.2	
660-48691-3	PW PUMP	Total/NA	Water	353.2	
LCS 680-243634/14	Lab Control Sample	Total/NA	Water	353.2	
MB 680-243634/13	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 243649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48691-1	14 PUMP	Total/NA	Water	Total Nitrogen	

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-48691-1

General Chemistry (Continued)

Analysis Batch: 243649 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-48691-2	11 PUMP	Total/NA	Water	Total Nitrogen	
660-48691-3	PW PUMP	Total/NA	Water	Total Nitrogen	

1

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Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-48691-1

Client Sample ID: 14 PUMP

Lab Sample ID: 660-48691-1

Date Collected: 07/05/12 11:45

Matrix: Water

Date Received: 07/06/12 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			41348	07/11/12 10:29	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	41591	07/12/12 17:20	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			94412	07/23/12 15:03	AJN	TAL TAL
Total/NA	Analysis	365.1		1	94446	07/24/12 15:51	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	126463	07/11/12 06:29	TO	TAL TAM
Total/NA	Prep	351.2			243447	07/16/12 08:35	MAP	TAL SAV
Total/NA	Analysis	351.2		1	243566	07/17/12 13:09	MAP	TAL SAV
Total/NA	Analysis	353.2		1	243634	07/18/12 10:43	JNC	TAL SAV
Total/NA	Analysis	Total Nitrogen		1	243649	07/18/12 12:02	JR	TAL SAV

Client Sample ID: 11 PUMP

Lab Sample ID: 660-48691-2

Date Collected: 07/05/12 12:30

Matrix: Water

Date Received: 07/06/12 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EXTRACTION, SOLID PHASE			2191140_P	07/09/12 19:00	JR	TAL WSC
Total	Analysis	1694		1.03	2191140	07/25/12 00:21	NS	TAL WSC
Total Recoverable	Prep	200.8			41348	07/11/12 10:29	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	41591	07/12/12 17:25	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			94412	07/23/12 15:03	AJN	TAL TAL
Total/NA	Analysis	365.1		1	94446	07/24/12 15:53	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	126463	07/11/12 06:29	TO	TAL TAM
Total/NA	Prep	351.2			243447	07/16/12 08:35	MAP	TAL SAV
Total/NA	Analysis	351.2		1	243566	07/17/12 13:09	MAP	TAL SAV
Total/NA	Analysis	353.2		1	243634	07/18/12 10:45	JNC	TAL SAV
Total/NA	Analysis	Total Nitrogen		1	243649	07/18/12 12:02	JR	TAL SAV

Client Sample ID: PW PUMP

Lab Sample ID: 660-48691-3

Date Collected: 07/05/12 13:40

Matrix: Water

Date Received: 07/06/12 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			41348	07/11/12 10:29	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	41591	07/12/12 17:29	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			94412	07/23/12 15:03	AJN	TAL TAL
Total/NA	Analysis	365.1		1	94446	07/24/12 15:54	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	126463	07/11/12 06:29	TO	TAL TAM
Total/NA	Prep	351.2			243447	07/16/12 08:35	MAP	TAL SAV
Total/NA	Analysis	351.2		1	243566	07/17/12 13:09	MAP	TAL SAV
Total/NA	Analysis	353.2		1	243634	07/18/12 10:48	JNC	TAL SAV
Total/NA	Analysis	Total Nitrogen		1	243649	07/18/12 12:02	JR	TAL SAV

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-48691-1

Laboratory References:

- = Sanders Laboratories Inc., 1050 Endeavor Ct., Nokomis, FL 34275
- TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058
- TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858
- TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994
- TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427
- TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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Certification Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-48691-1

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAC	4	E84282	06-30-13
Georgia	State Program	4	905	07-31-12
USDA	Federal		P330-11-00177	04-20-14

Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-13
California	NELAC	9	4224CA	03-31-13
Connecticut	State Program	1	PH-0688	09-30-12
Florida	NELAC	4	E871008	06-30-13
Illinois	NELAC	5	002602	06-30-13
Kansas	NELAC	7	E-10350	01-31-13
L-A-B	DoD ELAP		L2314	02-24-13
Louisiana	NELAC	6	04041	06-30-13
New Hampshire	NELAC	1	203011	04-04-13
New Jersey	NELAC	2	PA005	06-30-13
New York	NELAC	2	11182	04-01-13
North Carolina DENR	State Program	4	434	12-31-12
Pennsylvania	NELAC	3	02-00416	04-30-13
Pennsylvania	State Program	3	02-416	12-31-12
South Carolina	State Program	4	89014002	04-30-13
USDA	Federal		P-Soil-01	04-16-15
USDA	Federal		P330-10-00139	04-28-13
Utah	NELAC	8	STLP	04-30-13
Virginia	NELAC	3	460189	09-14-12
West Virginia DEP	State Program	3	142	01-31-13
Wisconsin	State Program	5	998027800	08-31-12

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	02-28-13
A2LA	ISO/IEC 17025		399.01	02-28-13
Alabama	State Program	4	41450	08-15-12
Alaska (UST)	State Program	10	UST-104	06-19-13
Arkansas DEQ	State Program	6	88-0692	02-01-12
California	NELAC	9	3217CA	07-31-13
Colorado	State Program	8	N/A	12-31-12
Connecticut	State Program	1	PH-0161	03-31-13
Florida	NELAC	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-12
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-12
Guam	State Program	9	09-005r	04-17-12
Hawaii	State Program	9	N/A	06-30-12
Illinois	NELAC	5	200022	11-30-12
Indiana	State Program	5	N/A	06-30-12
Iowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	02-28-13

Certification Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-48691-1

Laboratory: TestAmerica Savannah (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Louisiana	NELAC	6	30690	06-30-13
Louisiana	NELAC	6	LA100015	12-31-12
Maine	State Program	1	GA00006	08-16-14
Maryland	State Program	3	250	12-31-12
Massachusetts	State Program	1	M-GA006	06-30-12
Michigan	State Program	5	9925	06-30-12
Mississippi	State Program	4	N/A	06-30-10
Montana	State Program	8	CERT0081	12-31-12
Nebraska	State Program	7	TestAmerica-Savannah	06-30-12
New Jersey	NELAC	2	GA769	06-30-12
New Mexico	State Program	6	N/A	06-30-13
New York	NELAC	2	10842	04-01-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-12
Oklahoma	State Program	6	9984	08-31-12
Pennsylvania	NELAC	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-13
Rhode Island	State Program	1	LAO00244	12-30-12
South Carolina	State Program	4	98001	06-30-12
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAC	6	T104704185-08-TX	11-30-12
USDA	Federal		SAV 3-04	04-07-14
Vermont	State Program	1	87052	11-16-12
Virginia	NELAC	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia	State Program	3	9950C	12-31-12
West Virginia DEP	State Program	3	94	06-30-12
Wisconsin	State Program	5	999819810	08-31-12
Wyoming	State Program	8	8TMS-Q	06-30-12

Laboratory: TestAmerica Tallahassee

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAC	4	E81005	06-30-13
Louisiana	NELAC	6	30663	06-30-13
New Jersey	NELAC	2	FL012	06-30-13
Oklahoma	State Program	6	9986	08-31-12
Texas	NELAC	6	T104704459-11-2	03-31-13
USDA	Federal		P330-08-00158	08-05-14

Laboratory: TestAmerica West Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-14
Alaska (UST)	State Program	10	UST-055	12-18-12
Arizona	State Program	9	AZ0708	08-11-13
Arkansas DEQ	State Program	6	88-0691	06-17-13
California	NELAC	9	1119CA	01-31-13
Colorado	State Program	8	N/A	08-31-12
Connecticut	State Program	1	PH-0691	06-30-13
Florida	NELAC	4	E87570	06-30-13
Georgia	State Program	4	960	06-30-12

Certification Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-48691-1

Laboratory: TestAmerica West Sacramento (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Guam	State Program	9	N/A	08-31-12
Hawaii	State Program	9	N/A	01-31-13
Illinois	NELAC	5	200060	03-17-13
Kansas	NELAC	7	E-10375	10-31-12
Louisiana	NELAC	6	30612	06-30-13
Michigan	State Program	5	9947	01-31-13
Nevada	State Program	9	CA44	09-30-12
New Jersey	NELAC	2	CA005	06-30-13
New Mexico	State Program	6	N/A	06-30-12
New York	NELAC	2	11666	04-01-13
Northern Mariana Islands	State Program	9	MP0007	01-31-13
Oregon	NELAC	10	CA200005	03-28-13
Pennsylvania	NELAC	3	68-01272	03-31-13
South Carolina	State Program	4	87014	06-30-13
Texas	NELAC	6	T104704399-08-TX	05-31-13
US Fish & Wildlife	Federal		LE148388-0	02-28-13
USDA	Federal		P330-11-00436	12-30-14
Utah	NELAC	8	QUAN1	01-31-13
Washington	State Program	10	C581	05-05-13
West Virginia	State Program	3	9930C	12-31-12
West Virginia DEP	State Program	3	334	07-31-12
Wisconsin	State Program	5	998204680	08-31-12
Wyoming	State Program	8	8TMS-Q	01-31-13

Method Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-48691-1

Method	Method Description	Protocol	Laboratory
1694	Pharmaceuticals, HPLC/MS/MS (1694)	CFR136A	TAL WSC
200.8	Metals (ICP/MS)	EPA	TAL PIT
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV
365.1	Phosphorus, Total	EPA	TAL TAL
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL TAM
Total Nitrogen	Nitrogen, Total	EPA	TAL SAV
Enterococcus and Fecal Coliform	Microbiology	NONE	

Protocol References:

- CFR136A = CFR136A
- EPA = US Environmental Protection Agency
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- NONE = NONE
- SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

- = Sanders Laboratories Inc., 1050 Endeavor Ct., Nokomis, FL 34275
- TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058
- TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858
- TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994
- TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427
- TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Sample Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-48691-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-48691-1	14 PUMP	Water	07/05/12 11:45	07/06/12 08:50
660-48691-2	11 PUMP	Water	07/05/12 12:30	07/06/12 08:50
660-48691-3	PW PUMP	Water	07/05/12 13:40	07/06/12 08:50

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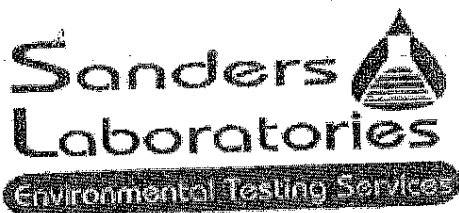
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Laboratory Test Report

Lab Project #: F1207079

Page 1 of 3

All subsequent pages are identified by: F1207079. These pages may include, but are not limited to: Analytical Data, Chains of Custody, Subcontracted Data and Case Narratives.

Questions regarding this report should be directed to your Laboratory Contact:

Client: Test America Tampa
Attn: Nancy Robertson
6712 Benjamin Rd Suite 10
Tampa, FL 33634
813-885-7427
Phone:
Fax:
E-mail:
Project Name: Delta Naples Recycling

QUALIFIER DEFINITIONS

- B: Results based upon colony counts outside the acceptable range.
I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.
J: Estimated Value.
J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.
K: Off scale low, actual value is known to be less than the value given.
L: Off scale high, actual value is known to be greater than the value given.
Q: Sample held beyond acceptable holding time.
U: The compound was analyzed for, but not detected.
V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.
Y: The laboratory analysis was from an improperly preserved sample.
Z: Too many colonies were present for accurate counting.
HACH results may not meet NELAC standards.

A statement of estimated uncertainty of results is available upon request.
Analytical results provided relate only to the samples received for this project.
Test results meet all the requirements of the NELAC standards, unless otherwise noted.
Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.
Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.
Laboratory PQL's are available upon request.
Reports are archived for a minimum of 5 years. Copies of reports which are less than 1 year old are available for a fee of \$25.00 per report. Reports older than 1 year are available for a fee of \$50.00 per report. Copies will be provided within 1 week of the time of the request.

Comments:

Approved by:

[Signature]
Radica Koutselas/QA Officer
Jeff Walsh/Project Manager

Nokomis Lab ~ 1050 Endeavor Ct. ~ Nokomis, FL 34275-3623 ~ Phone: 941-488-8103 ~ Fax: 941-484-6774 ~ DOH Certification # E84380
Fort Myers Lab ~ 10090 Bavaria Road ~ Fort Myers, FL 33913 ~ Phone: 239-590-0337 ~ Fax: 239-590-0536 ~ DOH Certification # E85457

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Page: Page 1 of 1

Client Project: Delta Naples Recycling

Lab Project: F1207079

Report Date: 07/10/12

<u>Lab ID</u>	<u>Sample Description</u>	<u>Matrix</u>	<u>Sample Type</u>	<u>Received Date/Time</u>	<u>Sample Date/Time</u>					
F1207079-01	I4-PUMP	Surface Water	GRAB	7/5/12 14:55	7/5/12 11:45					
<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	<u>Method</u>	<u>Batch #</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN	1200		1	1	MPN/100ml	Enterolert	FB120709029	7/5/12 16:10	LV	E85457
Fecal Coliform, MF	1350	B	90	90	CFU/100ml	SM9222D	FB120709028	7/5/12 16:15	LV	E85457
<u>Lab ID</u>	<u>Sample Description</u>	<u>Matrix</u>	<u>Sample Type</u>	<u>Received Date/Time</u>	<u>Sample Date/Time</u>					
F1207079-02	I1-PUMP	Surface Water	GRAB	7/5/12 14:55	7/5/12 12:30					
<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	<u>Method</u>	<u>Batch #</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN	200		100	100	MPN/100ml	Enterolert	FB120709029	7/5/12 16:10	LV	E85457
Fecal Coliform, MF	112000	B	909	909	CFU/100ml	SM9222D	FB120709028	7/5/12 16:15	LV	E85457
<u>Lab ID</u>	<u>Sample Description</u>	<u>Matrix</u>	<u>Sample Type</u>	<u>Received Date/Time</u>	<u>Sample Date/Time</u>					
F1207079-03	PW-PUMP	Surface Water	GRAB	7/5/12 14:55	7/5/12 13:40					
<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	<u>Method</u>	<u>Batch #</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN	500		100	100	MPN/100ml	Enterolert	FB120709029	7/5/12 16:10	LV	E85457
Fecal Coliform, MF	1980	B	90	90	CFU/100ml	SM9222D	FB120709028	7/5/12 16:15	LV	E85457



CHAIN-OF-CUSTODY RECORD

PROJECT #

FL207079

Page 1 of 1

Report To: Test America
Bill To: Same
P.O. #

Client: Test America (Nancy Robertson)
Address: TAMPA

Project Name: City of Naples
Project Location: Storm Water
Customer Type: Naples, FL (For AMEC)

Preservative: HCl = H, HNO3 = N, Na2SO3 = ST, H2SO4 = S, NaOH = SH, NH4Cl = NH

REQUESTED DUE DATE: 7/19/12

Sampled By (PRINT): Tom Bates, AMEC

Sampler Signature: [Handwritten Signature]

Table with columns: Sample ID #, Sample Description, Date, Time, Type, Preservatives, Analyses Request, Date, Time, Affiliation, Date, Time. Includes handwritten entries for samples 01A, 02A, 03A and a 'LEGAL CAL' stamp.

Comments section with text: OKAY TO RUN AS IS, CLIENT INITIALS, SAMPLES ON ICE (Yes/No), and numerical value 4.3.

TestAmerica Tampa
 6712 Benjamin Road Suite 100
 Tampa, FL 33634
 Phone (813) 885-7427 Fax (813) 885-7049

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information
 Client Contact: Mr. Tom Bates
 Company: AMEC Environment & Infrastructure, Inc.
 Address: 2222 Industrial Blvd., Suite 155
 City: Naples
 State, Zip: FL, 34104
 Phone: 239-564-8483(Tel)
 Email: tdabates@amec.com
 Project Name: City of Naples Stormwater 2012
 Street:
 Project #: 66006041
 SSOV#:
 Due Date Requested:
 TAT Requested (days):
 PO #:
 Purchase Order Requested:
 WO #:

Sampler: T. Bates
Lab PM: Robertson, Nancy
E-Mail: nancy.robertson@testamerica.com
Carrier Tracking No(s):
Analysis Requested:
 200.8 - Copper
 365.1 - Phosphorus
 351.2, 353.2, Nitrogen, Total
 2540D - Total Suspended Solids
 SUBCONTRACT - Enterococcus and Fecal Coliform
 Caffeine
Job #: 100-148091
Page: 1 of 1
Page Count: 1 of 1
COC No: 660-42079-13734.3
Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Archlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDTA
 M - Hexane
 N - None
 O - AsHAcO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4.5
 Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=solid, O=Other, A=AA)	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers	Special Instructions/Note:
					Yes	No	Yes	No		
14 PUMP	7/05/12	1145	G	Water						Bact TS were delivered to Sanders Lab
11 PUMP		1230	G	Water						
PW PUMP		1340	G	W						FT. Myers

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify) _____

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: *T. Bates* Date/Time: 7/05/12 1730 Company: AMEC
 Received By: *Peak* Date/Time: 7-6-12 0850 Company: TA TRP

Relinquished by: _____ Date/Time: _____ Company: _____
 Received By: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) and other Remarks: *Peak CU-07*

Custody Seals Intact: Yes No Custody Seal No.: _____

Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-48691-1

Login Number: 48691

List Number: 1

Creator: Edwards, Erricka

List Source: TestAmerica Tampa

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-48691-1

Login Number: 48691

List Number: 1

Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

List Creation: 07/07/12 11:58 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-48691-1

Login Number: 48691

List Number: 1

Creator: Howard, Brandon L

List Source: TestAmerica Savannah

List Creation: 07/10/12 12:02 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-48691-1

Login Number: 48691

List Number: 2

Creator: Howard, Brandon L

List Source: TestAmerica Savannah

List Creation: 07/11/12 12:14 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-48691-1

Login Number: 48691

List Number: 1

Creator: Delp, Eric

List Source: TestAmerica Tallahassee

List Creation: 07/07/12 11:53 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



Quarter 3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Tampa
6712 Benjamin Road
Suite 100
Tampa, FL 33634
Tel: (813)885-7427

TestAmerica Job ID: 660-50257-1

Client Project/Site: City of Naples Stormwater

For:

AMEC Environment & Infrastructure, Inc.
222 Industrial Blvd., Suite 155
Naples, Florida 34104

Attn: Mr. Tom Bates



Authorized for release by:
11/8/2012 4:02:03 PM

Nancy Robertson
Project Manager II
nancy.robertson@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Qualifiers

Metals

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
RER	Relative error ratio
DER	Duplicate error ratio (normalized absolute difference)
DLC	Decision level concentration
RL	Reporting Limit or Requested Limit (Radiochemistry only)

Case Narrative

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Job ID: 660-50257-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative
660-50257-1

Comments

No additional comments.

Receipt

The samples were received on 9/26/2012 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.7° C, 0.7° C and 2.5° C.

Metals

No analytical or quality issues were noted.

General Chemistry

Method 351.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 129726 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 351.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 129846 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 365.1: The matrix spike (MS) recovery for batch 96275 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. The sample is flagged with J3.

No other analytical or quality issues were noted.



Detection Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Client Sample ID: 1A3

Lab Sample ID: 660-50257-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.3		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.71		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.13	J3	0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	2.0		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	0.71		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 1B

Lab Sample ID: 660-50257-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	17		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.75		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.076		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	24		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	0.75		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 2B

Lab Sample ID: 660-50257-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	6.2		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.85		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.045		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	6.4		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	0.85		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 3B

Lab Sample ID: 660-50257-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.8		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.0		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.13		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	5.2		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.0		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 5B

Lab Sample ID: 660-50257-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.0		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.89		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.12		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	4.8		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	0.89		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 15B

Lab Sample ID: 660-50257-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	8.2		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.89		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.030		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	4.8		1.0	1.0	mg/L	1		SM 2540D	Total/NA

Detection Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Client Sample ID: 15B (Continued)

Lab Sample ID: 660-50257-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrogen, Total	0.89		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 16B

Lab Sample ID: 660-50257-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.28	I	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.91		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.022		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	3.6		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	0.91		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 19B

Lab Sample ID: 660-50257-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.39	I	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.2		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.047		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	8.4		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.2		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 6B

Lab Sample ID: 660-50257-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.46	I	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.2		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.13		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	11		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.2		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 20B

Lab Sample ID: 660-50257-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.91	I	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.8		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.068		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	13		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.8		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 21B

Lab Sample ID: 660-50257-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.9	I	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.67		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.022		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	6.4		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	0.67	I	0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 22A3

Lab Sample ID: 660-50257-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
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Detection Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Client Sample ID: 22A3 (Continued)

Lab Sample ID: 660-50257-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.99	I	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.76		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.12		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	3.6		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	0.76		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 22B

Lab Sample ID: 660-50257-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.64	I	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.85		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.10		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	8.8		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	0.85		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: PW Pump

Lab Sample ID: 660-50257-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	38		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.83		0.20	0.050	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.26	I	0.50	0.10	mg/L	1		353.2	Total/NA
Phosphorus	0.088		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	4.8		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.1		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: Reuse 1

Lab Sample ID: 660-50257-15

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.2	I	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.63		0.20	0.050	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.94		0.50	0.10	mg/L	1		353.2	Total/NA
Phosphorus	0.34		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	1.6		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.6		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Client Sample ID: 1A3

Lab Sample ID: 660-50257-1

Date Collected: 09/25/12 09:30

Matrix: Water

Date Received: 09/26/12 08:50

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.3		2.0	0.14	ug/L		09/27/12 17:04	10/03/12 02:58	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.71		0.20	0.050	mg/L		09/27/12 16:30	09/28/12 13:21	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 16:31	1
Phosphorus	0.13	J3	0.010	0.0044	mg/L		10/01/12 12:35	10/01/12 17:48	1
Total Suspended Solids	2.0		1.0	1.0	mg/L			10/01/12 12:47	1
Nitrogen, Total	0.71		0.70	0.15	mg/L			10/05/12 15:01	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Client Sample ID: 1B

Lab Sample ID: 660-50257-2

Date Collected: 09/25/12 09:45

Matrix: Water

Date Received: 09/26/12 08:50

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	17		2.0	0.14	ug/L		09/27/12 17:04	10/03/12 03:02	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.75		0.20	0.050	mg/L		09/27/12 16:30	09/28/12 13:25	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 16:33	1
Phosphorus	0.076		0.010	0.0044	mg/L		10/01/12 12:35	10/01/12 17:57	1
Total Suspended Solids	24		1.0	1.0	mg/L			10/01/12 12:47	1
Nitrogen, Total	0.75		0.70	0.15	mg/L			10/05/12 15:01	1



Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Client Sample ID: 2B

Lab Sample ID: 660-50257-3

Date Collected: 09/25/12 10:30

Matrix: Water

Date Received: 09/26/12 08:50

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	6.2		2.0	0.14	ug/L		09/27/12 17:04	10/03/12 03:07	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.85		0.20	0.050	mg/L		09/27/12 16:30	09/28/12 13:28	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 16:34	1
Phosphorus	0.045		0.010	0.0044	mg/L		10/01/12 12:35	10/01/12 17:58	1
Total Suspended Solids	6.4		1.0	1.0	mg/L			10/01/12 12:47	1
Nitrogen, Total	0.85		0.70	0.15	mg/L			10/05/12 15:01	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Client Sample ID: 3B

Lab Sample ID: 660-50257-4

Date Collected: 09/25/12 11:00

Matrix: Water

Date Received: 09/26/12 08:50

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.8		2.0	0.14	ug/L		09/27/12 17:04	10/03/12 03:11	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.0		0.20	0.050	mg/L		09/27/12 16:30	09/28/12 13:30	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 16:35	1
Phosphorus	0.13		0.010	0.0044	mg/L		10/01/12 12:35	10/01/12 18:00	1
Total Suspended Solids	5.2		1.0	1.0	mg/L			10/01/12 12:47	1
Nitrogen, Total	1.0		0.70	0.15	mg/L			10/05/12 15:05	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Client Sample ID: 5B

Lab Sample ID: 660-50257-5

Date Collected: 09/25/12 11:15

Matrix: Water

Date Received: 09/26/12 08:50

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.0		2.0	0.14	ug/L		09/27/12 17:04	10/03/12 03:15	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.89		0.20	0.050	mg/L		09/27/12 16:30	09/28/12 13:31	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 16:36	1
Phosphorus	0.12		0.010	0.0044	mg/L		10/01/12 12:35	10/01/12 18:01	1
Total Suspended Solids	4.8		1.0	1.0	mg/L			10/01/12 12:47	1
Nitrogen, Total	0.89		0.70	0.15	mg/L			10/05/12 15:05	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Client Sample ID: 15B

Lab Sample ID: 660-50257-6

Date Collected: 09/25/12 11:30

Matrix: Water

Date Received: 09/26/12 08:50

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	8.2		2.0	0.14	ug/L		09/27/12 17:04	10/03/12 03:20	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.89		0.20	0.050	mg/L		09/27/12 16:30	09/28/12 13:32	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 16:38	1
Phosphorus	0.030		0.010	0.0044	mg/L		10/01/12 12:35	10/01/12 18:10	1
Total Suspended Solids	4.8		1.0	1.0	mg/L			10/01/12 12:47	1
Nitrogen, Total	0.89		0.70	0.15	mg/L			10/05/12 15:05	1



Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Client Sample ID: 16B

Lab Sample ID: 660-50257-7

Date Collected: 09/25/12 11:45

Matrix: Water

Date Received: 09/26/12 08:50

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.28	I	2.0	0.14	ug/L		09/27/12 17:04	10/03/12 03:39	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.91		0.20	0.050	mg/L		10/01/12 17:30	10/02/12 15:53	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 16:39	1
Phosphorus	0.022		0.010	0.0044	mg/L		10/01/12 12:35	10/01/12 18:12	1
Total Suspended Solids	3.6		1.0	1.0	mg/L			10/01/12 12:47	1
Nitrogen, Total	0.91		0.70	0.15	mg/L			10/05/12 15:05	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Client Sample ID: 19B

Lab Sample ID: 660-50257-8

Date Collected: 09/25/12 12:00

Matrix: Water

Date Received: 09/26/12 08:50

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.39	I	2.0	0.14	ug/L		09/27/12 17:04	10/03/12 03:43	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.2		0.20	0.050	mg/L		10/01/12 17:30	10/02/12 15:55	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 16:40	1
Phosphorus	0.047		0.010	0.0044	mg/L		10/01/12 12:35	10/01/12 18:13	1
Total Suspended Solids	8.4		1.0	1.0	mg/L			10/01/12 12:47	1
Nitrogen, Total	1.2		0.70	0.15	mg/L			10/05/12 15:05	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Client Sample ID: 6B

Lab Sample ID: 660-50257-9

Date Collected: 09/25/12 12:45

Matrix: Water

Date Received: 09/26/12 08:50

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.46	I	2.0	0.14	ug/L		09/27/12 17:04	10/03/12 03:47	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.2		0.20	0.050	mg/L		10/01/12 17:30	10/02/12 15:56	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 16:41	1
Phosphorus	0.13		0.010	0.0044	mg/L		10/01/12 12:35	10/01/12 18:15	1
Total Suspended Solids	11		1.0	1.0	mg/L			10/01/12 12:47	1
Nitrogen, Total	1.2		0.70	0.15	mg/L			10/05/12 15:05	1



Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Client Sample ID: 20B

Lab Sample ID: 660-50257-10

Date Collected: 09/25/12 13:00

Matrix: Water

Date Received: 09/26/12 08:50

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.91	I	2.0	0.14	ug/L		09/27/12 17:04	10/03/12 03:52	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.8		0.20	0.050	mg/L		10/01/12 17:30	10/02/12 15:57	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 17:02	1
Phosphorus	0.068		0.010	0.0044	mg/L		10/01/12 12:35	10/01/12 18:16	1
Total Suspended Solids	13		1.0	1.0	mg/L			10/01/12 12:47	1
Nitrogen, Total	1.8		0.70	0.15	mg/L			10/05/12 15:05	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Client Sample ID: 21B

Lab Sample ID: 660-50257-11

Date Collected: 09/25/12 13:00

Matrix: Water

Date Received: 09/26/12 08:50

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.9	I	2.0	0.14	ug/L		09/27/12 17:04	10/03/12 03:56	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.67		0.20	0.050	mg/L		10/01/12 17:30	10/02/12 15:59	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 17:03	1
Phosphorus	0.022		0.010	0.0044	mg/L		10/01/12 12:35	10/01/12 18:21	1
Total Suspended Solids	6.4		1.0	1.0	mg/L			10/01/12 12:47	1
Nitrogen, Total	0.67	I	0.70	0.15	mg/L			10/05/12 15:05	1



Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Client Sample ID: 22A3

Lab Sample ID: 660-50257-12

Date Collected: 09/25/12 14:00

Matrix: Water

Date Received: 09/26/12 08:50

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.99	I	2.0	0.14	ug/L		09/27/12 17:04	10/03/12 04:00	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.76		0.20	0.050	mg/L		10/01/12 17:30	10/02/12 16:00	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 17:04	1
Phosphorus	0.12		0.010	0.0044	mg/L		10/01/12 12:35	10/01/12 18:22	1
Total Suspended Solids	3.6		1.0	1.0	mg/L			10/01/12 12:47	1
Nitrogen, Total	0.76		0.70	0.15	mg/L			10/05/12 15:05	1



Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Client Sample ID: 22B

Lab Sample ID: 660-50257-13

Date Collected: 09/25/12 14:30

Matrix: Water

Date Received: 09/26/12 08:50

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.64	I	2.0	0.14	ug/L		09/27/12 17:04	10/03/12 04:05	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.85		0.20	0.050	mg/L		10/01/12 17:30	10/02/12 16:01	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 17:06	1
Phosphorus	0.10		0.010	0.0044	mg/L		10/01/12 12:35	10/01/12 18:24	1
Total Suspended Solids	8.8		1.0	1.0	mg/L			10/01/12 12:47	1
Nitrogen, Total	0.85		0.70	0.15	mg/L			10/05/12 15:05	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Client Sample ID: PW Pump

Lab Sample ID: 660-50257-14

Date Collected: 09/25/12 14:45

Matrix: Water

Date Received: 09/26/12 08:50

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	38		2.0	0.14	ug/L		09/27/12 17:04	10/03/12 04:09	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.83		0.20	0.050	mg/L		10/01/12 17:30	10/02/12 16:02	1
Nitrate Nitrite as N	0.26	I	0.50	0.10	mg/L			10/04/12 17:07	1
Phosphorus	0.088		0.010	0.0044	mg/L		10/01/12 12:35	10/01/12 18:25	1
Total Suspended Solids	4.8		1.0	1.0	mg/L			10/01/12 12:47	1
Nitrogen, Total	1.1		0.70	0.15	mg/L			10/05/12 15:05	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Client Sample ID: Reuse 1

Lab Sample ID: 660-50257-15

Date Collected: 09/25/12 15:00

Matrix: Water

Date Received: 09/26/12 08:50

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.2	I	2.0	0.14	ug/L		09/27/12 17:04	10/03/12 04:13	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.63		0.20	0.050	mg/L		10/01/12 17:30	10/02/12 16:04	1
Nitrate Nitrite as N	0.94		0.50	0.10	mg/L			10/04/12 17:08	1
Phosphorus	0.34		0.010	0.0044	mg/L		10/01/12 12:35	10/01/12 18:27	1
Total Suspended Solids	1.6		1.0	1.0	mg/L			10/01/12 12:47	1
Nitrogen, Total	1.6		0.70	0.15	mg/L			10/05/12 15:05	1

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 180-49986/1-A
Matrix: Water
Analysis Batch: 50626

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 49986

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.14	U	2.0	0.14	ug/L		09/27/12 17:04	10/03/12 01:47	1

Lab Sample ID: LCS 180-49986/2-A
Matrix: Water
Analysis Batch: 50626

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 49986

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	250	223		ug/L		89	85 - 115

Lab Sample ID: 180-14724-E-3-B MS
Matrix: Water
Analysis Batch: 50626

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 49986

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	1.1	I	250	211		ug/L		84	70 - 130

Lab Sample ID: 180-14724-E-3-C MSD
Matrix: Water
Analysis Batch: 50626

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 49986

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	1.1	I	250	213		ug/L		85	70 - 130	1	20

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 660-129677/10-A
Matrix: Water
Analysis Batch: 129726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 129677

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.050	U	0.20	0.050	mg/L		09/27/12 16:30	09/28/12 13:04	1

Lab Sample ID: LCS 660-129677/11-A
Matrix: Water
Analysis Batch: 129726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 129677

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	3.00	3.04		mg/L		101	90 - 110

Lab Sample ID: 660-50205-C-1-B MS
Matrix: Water
Analysis Batch: 129726

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 129677

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	24	J3	3.00	25.7	J3	mg/L		47	90 - 110

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: 660-50205-C-1-C MSD

Matrix: Water

Analysis Batch: 129726

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 129677

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
Nitrogen, Kjeldahl	24	J3	3.00	26.4	J3	mg/L		69	90 - 110	3	30	

Lab Sample ID: 660-50257-2 MS

Matrix: Water

Analysis Batch: 129726

Client Sample ID: 1B

Prep Type: Total/NA

Prep Batch: 129677

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Nitrogen, Kjeldahl	0.75		3.00	3.80		mg/L		102	90 - 110	

Lab Sample ID: 660-50257-2 MSD

Matrix: Water

Analysis Batch: 129726

Client Sample ID: 1B

Prep Type: Total/NA

Prep Batch: 129677

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
Nitrogen, Kjeldahl	0.75		3.00	3.66		mg/L		97	90 - 110	4	30	

Lab Sample ID: MB 660-129804/10-A

Matrix: Water

Analysis Batch: 129846

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 129804

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Nitrogen, Kjeldahl	0.050	U	0.20	0.050	mg/L		10/01/12 17:30	10/02/12 15:28	1	

Lab Sample ID: LCS 660-129804/11-A

Matrix: Water

Analysis Batch: 129846

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 129804

Analyte	Spike	Added	LCS	LCS	Unit	D	%Rec	%Rec.	
			Result	Qualifier				Limits	RPD
Nitrogen, Kjeldahl	3.00		2.73		mg/L		91	90 - 110	

Lab Sample ID: 660-50315-D-2-B MS

Matrix: Water

Analysis Batch: 129846

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 129804

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	RPD
Nitrogen, Kjeldahl	6.9	J3	3.00	9.54	J3	mg/L		89	90 - 110	

Lab Sample ID: 660-50315-D-2-C MSD

Matrix: Water

Analysis Batch: 129846

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 129804

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
Nitrogen, Kjeldahl	6.9	J3	3.00	9.42	J3	mg/L		85	90 - 110	1	30	

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 660-129967/3
Matrix: Water
Analysis Batch: 129967

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 16:07	1

Lab Sample ID: LCS 660-129967/4
Matrix: Water
Analysis Batch: 129967

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	0.990		mg/L		99	90 - 110

Lab Sample ID: 660-50257-2 MS
Matrix: Water
Analysis Batch: 129967

Client Sample ID: 1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.10	U	1.00	1.01		mg/L		101	90 - 110

Lab Sample ID: 660-50257-2 MSD
Matrix: Water
Analysis Batch: 129967

Client Sample ID: 1B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.10	U	1.00	1.02		mg/L		102	90 - 110	1	30

Lab Sample ID: MB 660-129968/3
Matrix: Water
Analysis Batch: 129968

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 17:00	1

Lab Sample ID: LCS 660-129968/4
Matrix: Water
Analysis Batch: 129968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	1.03		mg/L		103	90 - 110

Lab Sample ID: 660-50257-10 MS
Matrix: Water
Analysis Batch: 129968

Client Sample ID: 20B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.10	U	1.00	1.02		mg/L		102	90 - 110

Lab Sample ID: 660-50257-10 MSD
Matrix: Water
Analysis Batch: 129968

Client Sample ID: 20B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.10	U	1.00	1.02		mg/L		102	90 - 110	0	30

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 640-96249/3-A
Matrix: Water
Analysis Batch: 96275

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 96249

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.0044	U	0.010	0.0044	mg/L		10/01/12 12:35	10/01/12 17:45	1

Lab Sample ID: LCS 640-96249/5-A
Matrix: Water
Analysis Batch: 96275

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96249

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.100	0.0940		mg/L		94	90 - 110

Lab Sample ID: LCSD 640-96249/6-A
Matrix: Water
Analysis Batch: 96275

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 96249

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus	0.100	0.0915		mg/L		92	90 - 110	3	30

Lab Sample ID: 660-50257-1 MS
Matrix: Water
Analysis Batch: 96275

Client Sample ID: 1A3
Prep Type: Total/NA
Prep Batch: 96249

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.13	J3	0.100	0.215	J3	mg/L		87	90 - 110

Lab Sample ID: 660-50257-1 MSD
Matrix: Water
Analysis Batch: 96275

Client Sample ID: 1A3
Prep Type: Total/NA
Prep Batch: 96249

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus	0.13	J3	0.100	0.230		mg/L		102	90 - 110	7	30

Lab Sample ID: 660-50257-1 DU
Matrix: Water
Analysis Batch: 96275

Client Sample ID: 1A3
Prep Type: Total/NA
Prep Batch: 96249

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus	0.13	J3	0.100	0.120		mg/L				7	30

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 660-129789/1
Matrix: Water
Analysis Batch: 129789

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1.0	U	1.0	1.0	mg/L			10/01/12 12:47	1

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: LCS 660-129789/2

Matrix: Water

Analysis Batch: 129789

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	100	102		mg/L		102	80 - 120

Lab Sample ID: 660-50257-14 DU

Matrix: Water

Analysis Batch: 129789

Client Sample ID: PW Pump

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	4.8		4.00		mg/L		18	20

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Metals

Prep Batch: 49986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-14724-E-3-B MS	Matrix Spike	Total Recoverable	Water	200.8	
180-14724-E-3-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	
660-50257-1	1A3	Total Recoverable	Water	200.8	
660-50257-2	1B	Total Recoverable	Water	200.8	
660-50257-3	2B	Total Recoverable	Water	200.8	
660-50257-4	3B	Total Recoverable	Water	200.8	
660-50257-5	5B	Total Recoverable	Water	200.8	
660-50257-6	15B	Total Recoverable	Water	200.8	
660-50257-7	16B	Total Recoverable	Water	200.8	
660-50257-8	19B	Total Recoverable	Water	200.8	
660-50257-9	6B	Total Recoverable	Water	200.8	
660-50257-10	20B	Total Recoverable	Water	200.8	
660-50257-11	21B	Total Recoverable	Water	200.8	
660-50257-12	22A3	Total Recoverable	Water	200.8	
660-50257-13	22B	Total Recoverable	Water	200.8	
660-50257-14	PW Pump	Total Recoverable	Water	200.8	
660-50257-15	Reuse 1	Total Recoverable	Water	200.8	
LCS 180-49986/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
MB 180-49986/1-A	Method Blank	Total Recoverable	Water	200.8	

Analysis Batch: 50626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-14724-E-3-B MS	Matrix Spike	Total Recoverable	Water	200.8	49986
180-14724-E-3-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	49986
660-50257-1	1A3	Total Recoverable	Water	200.8	49986
660-50257-2	1B	Total Recoverable	Water	200.8	49986
660-50257-3	2B	Total Recoverable	Water	200.8	49986
660-50257-4	3B	Total Recoverable	Water	200.8	49986
660-50257-5	5B	Total Recoverable	Water	200.8	49986
660-50257-6	15B	Total Recoverable	Water	200.8	49986
660-50257-7	16B	Total Recoverable	Water	200.8	49986
660-50257-8	19B	Total Recoverable	Water	200.8	49986
660-50257-9	6B	Total Recoverable	Water	200.8	49986
660-50257-10	20B	Total Recoverable	Water	200.8	49986
660-50257-11	21B	Total Recoverable	Water	200.8	49986
660-50257-12	22A3	Total Recoverable	Water	200.8	49986
660-50257-13	22B	Total Recoverable	Water	200.8	49986
660-50257-14	PW Pump	Total Recoverable	Water	200.8	49986
660-50257-15	Reuse 1	Total Recoverable	Water	200.8	49986
LCS 180-49986/2-A	Lab Control Sample	Total Recoverable	Water	200.8	49986
MB 180-49986/1-A	Method Blank	Total Recoverable	Water	200.8	49986

General Chemistry

Prep Batch: 96249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50257-1	1A3	Total/NA	Water	365.2/365.3/365	
660-50257-1 DU	1A3	Total/NA	Water	365.2/365.3/365	
660-50257-1 MS	1A3	Total/NA	Water	365.2/365.3/365	
660-50257-1 MSD	1A3	Total/NA	Water	365.2/365.3/365	
660-50257-2	1B	Total/NA	Water	365.2/365.3/365	
660-50257-3	2B	Total/NA	Water	365.2/365.3/365	

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

General Chemistry (Continued)

Prep Batch: 96249 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50257-4	3B	Total/NA	Water	365.2/365.3/365	
660-50257-5	5B	Total/NA	Water	365.2/365.3/365	
660-50257-6	15B	Total/NA	Water	365.2/365.3/365	
660-50257-7	16B	Total/NA	Water	365.2/365.3/365	
660-50257-8	19B	Total/NA	Water	365.2/365.3/365	
660-50257-9	6B	Total/NA	Water	365.2/365.3/365	
660-50257-10	20B	Total/NA	Water	365.2/365.3/365	
660-50257-11	21B	Total/NA	Water	365.2/365.3/365	
660-50257-12	22A3	Total/NA	Water	365.2/365.3/365	
660-50257-13	22B	Total/NA	Water	365.2/365.3/365	
660-50257-14	PW Pump	Total/NA	Water	365.2/365.3/365	
660-50257-15	Reuse 1	Total/NA	Water	365.2/365.3/365	
LCS 640-96249/5-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
LCS 640-96249/6-A	Lab Control Sample Dup	Total/NA	Water	365.2/365.3/365	
MB 640-96249/3-A	Method Blank	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 96275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50257-1	1A3	Total/NA	Water	365.1	96249
660-50257-1 DU	1A3	Total/NA	Water	365.1	96249
660-50257-1 MS	1A3	Total/NA	Water	365.1	96249
660-50257-1 MSD	1A3	Total/NA	Water	365.1	96249
660-50257-2	1B	Total/NA	Water	365.1	96249
660-50257-3	2B	Total/NA	Water	365.1	96249
660-50257-4	3B	Total/NA	Water	365.1	96249
660-50257-5	5B	Total/NA	Water	365.1	96249
660-50257-6	15B	Total/NA	Water	365.1	96249
660-50257-7	16B	Total/NA	Water	365.1	96249
660-50257-8	19B	Total/NA	Water	365.1	96249
660-50257-9	6B	Total/NA	Water	365.1	96249
660-50257-10	20B	Total/NA	Water	365.1	96249
660-50257-11	21B	Total/NA	Water	365.1	96249
660-50257-12	22A3	Total/NA	Water	365.1	96249
660-50257-13	22B	Total/NA	Water	365.1	96249
660-50257-14	PW Pump	Total/NA	Water	365.1	96249
660-50257-15	Reuse 1	Total/NA	Water	365.1	96249
LCS 640-96249/5-A	Lab Control Sample	Total/NA	Water	365.1	96249
LCS 640-96249/6-A	Lab Control Sample Dup	Total/NA	Water	365.1	96249
MB 640-96249/3-A	Method Blank	Total/NA	Water	365.1	96249

Prep Batch: 129677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50205-C-1-B MS	Matrix Spike	Total/NA	Water	351.2	
660-50205-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	
660-50257-1	1A3	Total/NA	Water	351.2	
660-50257-2	1B	Total/NA	Water	351.2	
660-50257-2 MS	1B	Total/NA	Water	351.2	
660-50257-2 MSD	1B	Total/NA	Water	351.2	
660-50257-3	2B	Total/NA	Water	351.2	
660-50257-4	3B	Total/NA	Water	351.2	
660-50257-5	5B	Total/NA	Water	351.2	
660-50257-6	15B	Total/NA	Water	351.2	

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

General Chemistry (Continued)

Prep Batch: 129677 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-129677/11-A	Lab Control Sample	Total/NA	Water	351.2	
MB 660-129677/10-A	Method Blank	Total/NA	Water	351.2	

Analysis Batch: 129726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50205-C-1-B MS	Matrix Spike	Total/NA	Water	351.2	129677
660-50205-C-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	129677
660-50257-1	1A3	Total/NA	Water	351.2	129677
660-50257-2	1B	Total/NA	Water	351.2	129677
660-50257-2 MS	1B	Total/NA	Water	351.2	129677
660-50257-2 MSD	1B	Total/NA	Water	351.2	129677
660-50257-3	2B	Total/NA	Water	351.2	129677
660-50257-4	3B	Total/NA	Water	351.2	129677
660-50257-5	5B	Total/NA	Water	351.2	129677
660-50257-6	15B	Total/NA	Water	351.2	129677
LCS 660-129677/11-A	Lab Control Sample	Total/NA	Water	351.2	129677
MB 660-129677/10-A	Method Blank	Total/NA	Water	351.2	129677

Analysis Batch: 129789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50257-1	1A3	Total/NA	Water	SM 2540D	
660-50257-2	1B	Total/NA	Water	SM 2540D	
660-50257-3	2B	Total/NA	Water	SM 2540D	
660-50257-4	3B	Total/NA	Water	SM 2540D	
660-50257-5	5B	Total/NA	Water	SM 2540D	
660-50257-6	15B	Total/NA	Water	SM 2540D	
660-50257-7	16B	Total/NA	Water	SM 2540D	
660-50257-8	19B	Total/NA	Water	SM 2540D	
660-50257-9	6B	Total/NA	Water	SM 2540D	
660-50257-10	20B	Total/NA	Water	SM 2540D	
660-50257-11	21B	Total/NA	Water	SM 2540D	
660-50257-12	22A3	Total/NA	Water	SM 2540D	
660-50257-13	22B	Total/NA	Water	SM 2540D	
660-50257-14	PW Pump	Total/NA	Water	SM 2540D	
660-50257-14 DU	PW Pump	Total/NA	Water	SM 2540D	
660-50257-15	Reuse 1	Total/NA	Water	SM 2540D	
LCS 660-129789/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 660-129789/1	Method Blank	Total/NA	Water	SM 2540D	

Prep Batch: 129804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50257-7	16B	Total/NA	Water	351.2	
660-50257-8	19B	Total/NA	Water	351.2	
660-50257-9	6B	Total/NA	Water	351.2	
660-50257-10	20B	Total/NA	Water	351.2	
660-50257-11	21B	Total/NA	Water	351.2	
660-50257-12	22A3	Total/NA	Water	351.2	
660-50257-13	22B	Total/NA	Water	351.2	
660-50257-14	PW Pump	Total/NA	Water	351.2	
660-50257-15	Reuse 1	Total/NA	Water	351.2	
660-50315-D-2-B MS	Matrix Spike	Total/NA	Water	351.2	
660-50315-D-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

General Chemistry (Continued)

Prep Batch: 129804 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-129804/11-A	Lab Control Sample	Total/NA	Water	351.2	
MB 660-129804/10-A	Method Blank	Total/NA	Water	351.2	

Analysis Batch: 129846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50257-7	16B	Total/NA	Water	351.2	129804
660-50257-8	19B	Total/NA	Water	351.2	129804
660-50257-9	6B	Total/NA	Water	351.2	129804
660-50257-10	20B	Total/NA	Water	351.2	129804
660-50257-11	21B	Total/NA	Water	351.2	129804
660-50257-12	22A3	Total/NA	Water	351.2	129804
660-50257-13	22B	Total/NA	Water	351.2	129804
660-50257-14	PW Pump	Total/NA	Water	351.2	129804
660-50257-15	Reuse 1	Total/NA	Water	351.2	129804
660-50315-D-2-B MS	Matrix Spike	Total/NA	Water	351.2	129804
660-50315-D-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	129804
LCS 660-129804/11-A	Lab Control Sample	Total/NA	Water	351.2	129804
MB 660-129804/10-A	Method Blank	Total/NA	Water	351.2	129804

Analysis Batch: 129967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50257-1	1A3	Total/NA	Water	353.2	
660-50257-2	1B	Total/NA	Water	353.2	
660-50257-2 MS	1B	Total/NA	Water	353.2	
660-50257-2 MSD	1B	Total/NA	Water	353.2	
660-50257-3	2B	Total/NA	Water	353.2	
660-50257-4	3B	Total/NA	Water	353.2	
660-50257-5	5B	Total/NA	Water	353.2	
660-50257-6	15B	Total/NA	Water	353.2	
660-50257-7	16B	Total/NA	Water	353.2	
660-50257-8	19B	Total/NA	Water	353.2	
660-50257-9	6B	Total/NA	Water	353.2	
LCS 660-129967/4	Lab Control Sample	Total/NA	Water	353.2	
MB 660-129967/3	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 129968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50257-10	20B	Total/NA	Water	353.2	
660-50257-10 MS	20B	Total/NA	Water	353.2	
660-50257-10 MSD	20B	Total/NA	Water	353.2	
660-50257-11	21B	Total/NA	Water	353.2	
660-50257-12	22A3	Total/NA	Water	353.2	
660-50257-13	22B	Total/NA	Water	353.2	
660-50257-14	PW Pump	Total/NA	Water	353.2	
660-50257-15	Reuse 1	Total/NA	Water	353.2	
LCS 660-129968/4	Lab Control Sample	Total/NA	Water	353.2	
MB 660-129968/3	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 129986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50257-1	1A3	Total/NA	Water	Total Nitrogen	
660-50257-2	1B	Total/NA	Water	Total Nitrogen	

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

General Chemistry (Continued)

Analysis Batch: 129986 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50257-3	2B	Total/NA	Water	Total Nitrogen	
660-50257-4	3B	Total/NA	Water	Total Nitrogen	
660-50257-5	5B	Total/NA	Water	Total Nitrogen	
660-50257-6	15B	Total/NA	Water	Total Nitrogen	
660-50257-7	16B	Total/NA	Water	Total Nitrogen	
660-50257-8	19B	Total/NA	Water	Total Nitrogen	
660-50257-9	6B	Total/NA	Water	Total Nitrogen	
660-50257-10	20B	Total/NA	Water	Total Nitrogen	
660-50257-11	21B	Total/NA	Water	Total Nitrogen	
660-50257-12	22A3	Total/NA	Water	Total Nitrogen	
660-50257-13	22B	Total/NA	Water	Total Nitrogen	
660-50257-14	PW Pump	Total/NA	Water	Total Nitrogen	
660-50257-15	Reuse 1	Total/NA	Water	Total Nitrogen	

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Client Sample ID: 1A3

Lab Sample ID: 660-50257-1

Date Collected: 09/25/12 09:30

Matrix: Water

Date Received: 09/26/12 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			49986	09/27/12 17:04	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	50626	10/03/12 02:58	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96249	10/01/12 12:35	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96275	10/01/12 17:48	AJN	TAL TAL
Total/NA	Prep	351.2			129677	09/27/12 16:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	129726	09/28/12 13:21	TO	TAL TAM
Total/NA	Analysis	SM 2540D		1	129789	10/01/12 12:47	TO	TAL TAM
Total/NA	Analysis	353.2		1	129967	10/04/12 16:31	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	129986	10/05/12 15:01	RWF	TAL TAM

Client Sample ID: 1B

Lab Sample ID: 660-50257-2

Date Collected: 09/25/12 09:45

Matrix: Water

Date Received: 09/26/12 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			49986	09/27/12 17:04	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	50626	10/03/12 03:02	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96249	10/01/12 12:35	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96275	10/01/12 17:57	AJN	TAL TAL
Total/NA	Prep	351.2			129677	09/27/12 16:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	129726	09/28/12 13:25	TO	TAL TAM
Total/NA	Analysis	SM 2540D		1	129789	10/01/12 12:47	TO	TAL TAM
Total/NA	Analysis	353.2		1	129967	10/04/12 16:33	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	129986	10/05/12 15:01	RWF	TAL TAM

Client Sample ID: 2B

Lab Sample ID: 660-50257-3

Date Collected: 09/25/12 10:30

Matrix: Water

Date Received: 09/26/12 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			49986	09/27/12 17:04	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	50626	10/03/12 03:07	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96249	10/01/12 12:35	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96275	10/01/12 17:58	AJN	TAL TAL
Total/NA	Prep	351.2			129677	09/27/12 16:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	129726	09/28/12 13:28	TO	TAL TAM
Total/NA	Analysis	SM 2540D		1	129789	10/01/12 12:47	TO	TAL TAM
Total/NA	Analysis	353.2		1	129967	10/04/12 16:34	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	129986	10/05/12 15:01	RWF	TAL TAM

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Client Sample ID: 3B

Lab Sample ID: 660-50257-4

Date Collected: 09/25/12 11:00

Matrix: Water

Date Received: 09/26/12 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			49986	09/27/12 17:04	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	50626	10/03/12 03:11	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96249	10/01/12 12:35	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96275	10/01/12 18:00	AJN	TAL TAL
Total/NA	Prep	351.2			129677	09/27/12 16:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	129726	09/28/12 13:30	TO	TAL TAM
Total/NA	Analysis	SM 2540D		1	129789	10/01/12 12:47	TO	TAL TAM
Total/NA	Analysis	353.2		1	129967	10/04/12 16:35	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	129986	10/05/12 15:05	RWF	TAL TAM

Client Sample ID: 5B

Lab Sample ID: 660-50257-5

Date Collected: 09/25/12 11:15

Matrix: Water

Date Received: 09/26/12 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			49986	09/27/12 17:04	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	50626	10/03/12 03:15	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96249	10/01/12 12:35	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96275	10/01/12 18:01	AJN	TAL TAL
Total/NA	Prep	351.2			129677	09/27/12 16:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	129726	09/28/12 13:31	TO	TAL TAM
Total/NA	Analysis	SM 2540D		1	129789	10/01/12 12:47	TO	TAL TAM
Total/NA	Analysis	353.2		1	129967	10/04/12 16:36	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	129986	10/05/12 15:05	RWF	TAL TAM

Client Sample ID: 15B

Lab Sample ID: 660-50257-6

Date Collected: 09/25/12 11:30

Matrix: Water

Date Received: 09/26/12 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			49986	09/27/12 17:04	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	50626	10/03/12 03:20	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96249	10/01/12 12:35	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96275	10/01/12 18:10	AJN	TAL TAL
Total/NA	Prep	351.2			129677	09/27/12 16:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	129726	09/28/12 13:32	TO	TAL TAM
Total/NA	Analysis	SM 2540D		1	129789	10/01/12 12:47	TO	TAL TAM
Total/NA	Analysis	353.2		1	129967	10/04/12 16:38	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	129986	10/05/12 15:05	RWF	TAL TAM

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Client Sample ID: 16B

Lab Sample ID: 660-50257-7

Date Collected: 09/25/12 11:45

Matrix: Water

Date Received: 09/26/12 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			49986	09/27/12 17:04	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	50626	10/03/12 03:39	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96249	10/01/12 12:35	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96275	10/01/12 18:12	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	129789	10/01/12 12:47	TO	TAL TAM
Total/NA	Prep	351.2			129804	10/01/12 17:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	129846	10/02/12 15:53	TO	TAL TAM
Total/NA	Analysis	353.2		1	129967	10/04/12 16:39	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	129986	10/05/12 15:05	RWF	TAL TAM

Client Sample ID: 19B

Lab Sample ID: 660-50257-8

Date Collected: 09/25/12 12:00

Matrix: Water

Date Received: 09/26/12 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			49986	09/27/12 17:04	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	50626	10/03/12 03:43	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96249	10/01/12 12:35	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96275	10/01/12 18:13	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	129789	10/01/12 12:47	TO	TAL TAM
Total/NA	Prep	351.2			129804	10/01/12 17:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	129846	10/02/12 15:55	TO	TAL TAM
Total/NA	Analysis	353.2		1	129967	10/04/12 16:40	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	129986	10/05/12 15:05	RWF	TAL TAM

Client Sample ID: 6B

Lab Sample ID: 660-50257-9

Date Collected: 09/25/12 12:45

Matrix: Water

Date Received: 09/26/12 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			49986	09/27/12 17:04	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	50626	10/03/12 03:47	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96249	10/01/12 12:35	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96275	10/01/12 18:15	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	129789	10/01/12 12:47	TO	TAL TAM
Total/NA	Prep	351.2			129804	10/01/12 17:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	129846	10/02/12 15:56	TO	TAL TAM
Total/NA	Analysis	353.2		1	129967	10/04/12 16:41	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	129986	10/05/12 15:05	RWF	TAL TAM

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Client Sample ID: 20B

Lab Sample ID: 660-50257-10

Date Collected: 09/25/12 13:00

Matrix: Water

Date Received: 09/26/12 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			49986	09/27/12 17:04	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	50626	10/03/12 03:52	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96249	10/01/12 12:35	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96275	10/01/12 18:16	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	129789	10/01/12 12:47	TO	TAL TAM
Total/NA	Prep	351.2			129804	10/01/12 17:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	129846	10/02/12 15:57	TO	TAL TAM
Total/NA	Analysis	353.2		1	129968	10/04/12 17:02	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	129986	10/05/12 15:05	RWF	TAL TAM

Client Sample ID: 21B

Lab Sample ID: 660-50257-11

Date Collected: 09/25/12 13:00

Matrix: Water

Date Received: 09/26/12 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			49986	09/27/12 17:04	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	50626	10/03/12 03:56	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96249	10/01/12 12:35	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96275	10/01/12 18:21	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	129789	10/01/12 12:47	TO	TAL TAM
Total/NA	Prep	351.2			129804	10/01/12 17:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	129846	10/02/12 15:59	TO	TAL TAM
Total/NA	Analysis	353.2		1	129968	10/04/12 17:03	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	129986	10/05/12 15:05	RWF	TAL TAM

Client Sample ID: 22A3

Lab Sample ID: 660-50257-12

Date Collected: 09/25/12 14:00

Matrix: Water

Date Received: 09/26/12 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			49986	09/27/12 17:04	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	50626	10/03/12 04:00	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96249	10/01/12 12:35	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96275	10/01/12 18:22	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	129789	10/01/12 12:47	TO	TAL TAM
Total/NA	Prep	351.2			129804	10/01/12 17:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	129846	10/02/12 16:00	TO	TAL TAM
Total/NA	Analysis	353.2		1	129968	10/04/12 17:04	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	129986	10/05/12 15:05	RWF	TAL TAM

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Client Sample ID: 22B

Lab Sample ID: 660-50257-13

Date Collected: 09/25/12 14:30

Matrix: Water

Date Received: 09/26/12 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			49986	09/27/12 17:04	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	50626	10/03/12 04:05	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96249	10/01/12 12:35	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96275	10/01/12 18:24	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	129789	10/01/12 12:47	TO	TAL TAM
Total/NA	Prep	351.2			129804	10/01/12 17:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	129846	10/02/12 16:01	TO	TAL TAM
Total/NA	Analysis	353.2		1	129968	10/04/12 17:06	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	129986	10/05/12 15:05	RWF	TAL TAM

Client Sample ID: PW Pump

Lab Sample ID: 660-50257-14

Date Collected: 09/25/12 14:45

Matrix: Water

Date Received: 09/26/12 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			49986	09/27/12 17:04	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	50626	10/03/12 04:09	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96249	10/01/12 12:35	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96275	10/01/12 18:25	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	129789	10/01/12 12:47	TO	TAL TAM
Total/NA	Prep	351.2			129804	10/01/12 17:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	129846	10/02/12 16:02	TO	TAL TAM
Total/NA	Analysis	353.2		1	129968	10/04/12 17:07	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	129986	10/05/12 15:05	RWF	TAL TAM

Client Sample ID: Reuse 1

Lab Sample ID: 660-50257-15

Date Collected: 09/25/12 15:00

Matrix: Water

Date Received: 09/26/12 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			49986	09/27/12 17:04	CNS	TAL PIT
Total Recoverable	Analysis	200.8		1	50626	10/03/12 04:13	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96249	10/01/12 12:35	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96275	10/01/12 18:27	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	129789	10/01/12 12:47	TO	TAL TAM
Total/NA	Prep	351.2			129804	10/01/12 17:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	129846	10/02/12 16:04	TO	TAL TAM
Total/NA	Analysis	353.2		1	129968	10/04/12 17:08	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	129986	10/05/12 15:05	RWF	TAL TAM

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Laboratory References:

= Sanders Laboratories Inc., 1050 Endeavor Ct., Nokomis, FL 34275

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

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Certification Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAC	4	E84282	06-30-13
Georgia	State Program	4	905	11-30-12
USDA	Federal		P330-11-00177	04-20-14

Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-13
California	NELAC	9	4224CA	03-31-13
Connecticut	State Program	1	PH-0688	09-30-14
Florida	NELAC	4	E871008	06-30-13
Illinois	NELAC	5	002602	06-30-13
Kansas	NELAC	7	E-10350	01-31-13
L-A-B	DoD ELAP		L2314	02-24-13
Louisiana	NELAC	6	04041	06-30-13
New Hampshire	NELAC	1	203011	04-04-13
New Jersey	NELAC	2	PA005	06-30-13
New York	NELAC	2	11182	04-01-13
North Carolina DENR	State Program	4	434	12-31-12
Pennsylvania	NELAC	3	02-00416	04-30-13
South Carolina	State Program	4	89014	04-30-13
USDA	Federal		P-Soil-01	04-16-15
USDA	Federal		P330-10-00139	04-28-13
Utah	NELAC	8	STLP	04-30-13
Virginia	NELAC	3	460189	09-14-13
West Virginia DEP	State Program	3	142	01-31-13
Wisconsin	State Program	5	998027800	08-31-13

Laboratory: TestAmerica Tallahassee

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAC	4	E81005	06-30-13
Louisiana	NELAC	6	30663	06-30-13
New Jersey	NELAC	2	FL012	06-30-13
Texas	NELAC	6	T104704459-11-2	03-31-13
USDA	Federal		P330-08-00158	08-05-14

Method Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL PIT
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL TAM
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL TAM
365.1	Phosphorus, Total	EPA	TAL TAL
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL TAM
Total Nitrogen	Nitrogen, Total	EPA	TAL TAM
Enterococcus and Fecal Coliform	Microbiology	NONE	

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

= Sanders Laboratories Inc., 1050 Endeavor Ct., Nokomis, FL 34275

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Sample Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-50257-1	1A3	Water	09/25/12 09:30	09/26/12 08:50
660-50257-2	1B	Water	09/25/12 09:45	09/26/12 08:50
660-50257-3	2B	Water	09/25/12 10:30	09/26/12 08:50
660-50257-4	3B	Water	09/25/12 11:00	09/26/12 08:50
660-50257-5	5B	Water	09/25/12 11:15	09/26/12 08:50
660-50257-6	15B	Water	09/25/12 11:30	09/26/12 08:50
660-50257-7	16B	Water	09/25/12 11:45	09/26/12 08:50
660-50257-8	19B	Water	09/25/12 12:00	09/26/12 08:50
660-50257-9	6B	Water	09/25/12 12:45	09/26/12 08:50
660-50257-10	20B	Water	09/25/12 13:00	09/26/12 08:50
660-50257-11	21B	Water	09/25/12 13:00	09/26/12 08:50
660-50257-12	22A3	Water	09/25/12 14:00	09/26/12 08:50
660-50257-13	22B	Water	09/25/12 14:30	09/26/12 08:50
660-50257-14	PW Pump	Water	09/25/12 14:45	09/26/12 08:50
660-50257-15	Reuse 1	Water	09/25/12 15:00	09/26/12 08:50



Laboratory Test Report

Lab Project #: F1209343

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All subsequent pages are identified by: F1209343 . These pages may include, but are not limited to: Analytical Data, Chains of Custodys, Subcontracted Data and Case Narratives.

Questions regarding this report should be directed to your **Laboratory Contact:**

Client: Test America Tampa

Attn: Nancy Robertson
6712 Benjamin Rd Suite 10
Tampa, FL 33634
Phone: 813-885-7427
Fax:
E-mail:
Project Name: MACTEC

QUALIFIER DEFINITIONS

- B: Results based upon colony counts outside the acceptable range.
 - I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.
 - J: Estimated Value.
 - J7: Excessive amounts of Sodium Sulfito used to dechlorinate the sample due to high levels of chlorine present.
 - K: Off scale low, actual value is known to be less than the value given.
 - L: Off scale high, actual value is known to be greater than the value given.
 - Q: Sample held beyond acceptable holding time.
 - U: The compound was analyzed for, but not detected.
 - V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.
 - Y: The laboratory analysis was from an improperly preserved sample.
 - Z: Too many colonies were present for accurate counting.
- HACH results may not meet NELAC standards.

A statement of estimated uncertainty of results is available upon request.

Analytical results provided relate only to the samples received for this project.

Test results meet all the requirements of the NELAC standards, unless otherwise noted.

Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.

Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Laboratory PQL's are available upon request.

Reports are archived for a minimum of 5 years. Copies of reports which are less than 1 year old are available for a fee of \$25.00 per report. Reports older than 1 year are available for a fee of \$50.00 per report. Copies will be provided within 1 week of the time of the request.

Approved by:

Comments:

Radica Koutselas/QA Officer
Jeff Walsh/Project Manager

Nokomis Lab ~ 1050 Endeavor Ct. ~ Nokomis, FL 34275-3623 ~ Phone: 941-488-8103 ~ Fax: 941-484-6774 ~ DOH Certification # E84380
Fort Myers Lab ~ 10090 Bavaria Road ~ Fort Myers, FL 33913 ~ Phone: 239-590-0337 ~ Fax: 239-590-0536 ~ DOH Certification # E85457

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Client Project: MACTEC

Page: Page 1 of 5

Lab Project: F1209343

Report Date: 10/03/12

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-01	1A3	Surface Water	GRAB	9/25/12 13:05	9/25/12 9:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	152		4	4	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF	673	B	9	9	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-02	1B	Surface Water	GRAB	9/25/12 13:05	9/25/12 9:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	100		100	100	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF	231	B	3	3	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-03	2B	Surface Water	GRAB	9/25/12 13:05	9/25/12 10:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	961		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF	1840	B	9	9	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-04	3B	Surface Water	GRAB	9/25/12 13:05	9/25/12 11:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	47		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF	259	B	2	2	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-05	5B	Surface Water	GRAB	9/25/12 13:05	9/25/12 11:15

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	7		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF	310		10	10	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-06	15B	Surface Water	GRAB	9/25/12 13:05	9/25/12 11:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	17		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457

Nokomis Lab ~ 1050 Endeavor Ct. ~ Nokomis, FL 34275-3623 ~ Phone: 941-488-8103 ~ Fax: 941-484-6774 ~ DOH Certification # E84380
 Fort Myers Lab ~ 10090 Bavaria Road ~ Fort Myers, FL 33913 ~ Phone: 239-590-0337 ~ Fax: 239-590-0536 ~ DOH Certification # E85457

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Page: Page 2 of 5

Client Project: MACTEC

Lab Project: F1209343

Report Date: 10/03/12

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-06	15B	Surface Water	GRAB	9/25/12 13:05	9/25/12 11:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Fecal Coliform, MF	230		10	10	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-07	16B	Surface Water	GRAB	9/25/12 13:05	9/25/12 11:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	39		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF	490		10	10	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-08	19B	Surface Water	GRAB	9/25/12 13:05	9/25/12 12:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	27		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF	410		10	10	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-09	6B	Surface Water	GRAB	9/25/12 15:50	9/25/12 12:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	101		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF	5200		100	100	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-10	20B	Surface Water	GRAB	9/25/12 15:50	9/25/12 13:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	2420		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF	4000		100	100	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-11	21B	Surface Water	GRAB	9/25/12 15:50	9/25/12 13:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	24		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF	492		1	1	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
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SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Page: Page 3 of 5

Client Project: MACTEC

Lab Project: F1209343

Report Date: 10/03/12

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time					
F1209343-12	22A3	Surface Water	GRAB	9/25/12 15:50	9/25/12 14:00					
Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	162		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF	2450	B	9	9	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457
Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time					
F1209343-13	22B	Surface Water	GRAB	9/25/12 15:50	9/25/12 14:30					
Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	378		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF	2340	B	9	9	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457
Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time					
F1209343-14	PW PUMP	Surface Water	GRAB	9/25/12 15:50	9/25/12 14:45					
Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	516		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF	4200		100	100	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457
Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time					
F1209343-15	REUSE 1	Surface Water	GRAB	9/25/12 15:50	9/25/12 15:00					
Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	1	U	1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF	2	U	2	2	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457
Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time					
F1209343-16	7B	Surface Water	GRAB	9/26/12 11:15	9/26/12 7:30					
Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	27		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	LV	E85457
Fecal Coliform, MF	15	B	2	2	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457
Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time					
F1209343-17	8B	Surface Water	GRAB	9/26/12 11:15	9/26/12 8:00					
Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	51		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	LV	E85457
Fecal Coliform, MF	162	B	2	2	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457
Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time					

SANDERS LABORATORIES, INC.
Laboratory Test Report

Client: Test America Tampa

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Client Project: MACTEC

Lab Project: F1209343

Report Date: 10/03/12

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-18	9B	Surface Water	GRAB	9/26/12 11:15	9/26/12 8:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	49		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	LV	E85457
Fecal Coliform, MF	66		2	2	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-19	10B	Surface Water	GRAB	9/26/12 11:15	9/26/12 9:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	186		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	LV	E85457
Fecal Coliform, MF	374	B	2	2	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-20	11B	Surface Water	GRAB	9/26/12 11:15	9/26/12 9:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	194		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	LV	E85457
Fecal Coliform, MF	489	B	2	2	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-21	11 PUMP	Surface Water	GRAB	9/26/12 11:15	9/26/12 9:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	127		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	LV	E85457
Fecal Coliform, MF	4700		100	100	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-22	CP	Surface Water	GRAB	9/26/12 15:30	9/26/12 10:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	2420		1	1	MPN/100ml	Enterolert	FB121003011	9/26/12 15:40	LV	E85457
Fecal Coliform, MF	2300		100	100	CFU/100ml	SM9222D	FB121003020	9/26/12 15:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-23	14 B	Surface Water	GRAB	9/26/12 15:30	9/26/12 11:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	142		1	1	MPN/100ml	Enterolert	FB121003011	9/26/12 15:40	LV	E85457
Fecal Coliform, MF	2	U	2	2	CFU/100ml	SM9222D	FB121003020	9/26/12 15:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
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Nokomis Lab ~ 1050 Endeavor Ct. ~ Nokomis, FL 34275-3623 ~ Phone: 941-488-8103 ~ Fax: 941-484-6774 ~ DOH Certification # E84380
Fort Myers Lab ~ 10090 Bavaria Road ~ Fort Myers, FL 33913 ~ Phone: 239-590-0337 ~ Fax: 239-590-0536 ~ DOH Certification # E85457

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

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Client Project: MACTEC

Lab Project: F1209343

Report Date: 10/03/12

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-24	14 PUMP	Surface Water	GRAB	9/26/12 15:30	9/26/12 11:15

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	333		1	1	MPN/100ml	Enterolert	FB121003011	9/26/12 15:40	LV	E85457
Fecal Coliform, MF	220		10	10	CFU/100ml	SM9222D	FB121003020	9/26/12 15:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-25	GD 3	Surface Water	GRAB	9/26/12 15:30	9/26/12 11:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	28		1	1	MPN/100ml	Enterolert	FB121003011	9/26/12 15:40	LV	E85457
Fecal Coliform, MF	84		2	2	CFU/100ml	SM9222D	FB121003020	9/26/12 15:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-26	REVSE 2	Surface Water	GRAB	9/26/12 15:30	9/26/12 12:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	1	U	1	1	MPN/100ml	Enterolert	FB121003011	9/26/12 15:40	LV	E85457
Fecal Coliform, MF	2	U	2	2	CFU/100ml	SM9222D	FB121003020	9/26/12 15:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-27	24B	Surface Water	GRAB	9/26/12 15:30	9/26/12 12:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	42		1	1	MPN/100ml	Enterolert	FB121003011	9/26/12 15:40	LV	E85457
Fecal Coliform, MF	3200		100	100	CFU/100ml	SM9222D	FB121003020	9/26/12 15:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-28	4TH AVE 3	Surface Water	GRAB	9/26/12 15:30	9/26/12 13:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	107		1	1	MPN/100ml	Enterolert	FB121003011	9/26/12 15:40	LV	E85457
Fecal Coliform, MF	508	B	2	2	CFU/100ml	SM9222D	FB121003020	9/26/12 15:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-29	26 B	Surface Water	GRAB	9/27/12 11:20	9/27/12 7:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	2		1	1	MPN/100ml	Enterolert	FB121003012	9/27/12 12:30	LV	E85457
Fecal Coliform, MF	890	B	9	9	CFU/100ml	SM9222D	FB121003024	9/27/12 12:27	LV/SL	E85457

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CHAIN-OF-CUSTODY RECORD

PROJECT # F1209343

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11/8/2012

Client Test America (for AMEC)

Report To: Nancy Robertson

Project Name: City Nappes

Address 1 Emma

Bill To: Test America

Project Location: Nappes FL

Phone _____ Fax _____

P.O. # _____

Customer Type: For AMEC

Sampled By (PRINT) Tom Bates (AMEC)

Preservative: HCl = H, HNO₃ = N, Na₂S₂O₃ = ST, H₂SO₄ = S, NaOH = SH, NH₄Cl = NH

Kit # _____

Sampler Signature Tom Bates

REQUESTED DUE DATE: 10/18/12

Matrix	SAMPLE DESCRIPTION	DATE	TIME	TYPE	PRESERVATIVES			ANALYSES REQUEST	ENTERO FECAL	Sample ID #	
					H	S	SH				
	1A3	9/15/12	930	G				✓		1A	
	1B		945					✓		2A	
	2B		1030					✓		3A	
	3B		1100					✓		4A	
	5B		1115					✓		5A	
	15B		1130					✓		6A	
	16B		1145					✓		7A	
	19B		1200					✓		8A	
Bottle Lot #		RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME
		Tom Bates / AMEC			9/15/12	1305	[Signature]			9/18/12	1305
COMMENTS:		S.V.									
OKAY TO RUN AS IS...		CLIENT INITIAL:									
SAMPLES ON ICE		Yes No									

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CHAIN-OF-CUSTODY RECORD

PROJECT # F1209343

Page _____ of _____

11/8/2012

Client Test America

Address _____

Phone _____ Fax _____

Report To: Nancy Robertson
 Bill To: Test America
 P.O. # _____

Preservative: HCl = H, HNO₃ = N, Na₂SO₃ = ST,
 H₂SO₄ = S, NaOH = SH, NH₄Cl = NH

Project Name: Nepesin Sommette
 Project Location: Nepesin, FL
 Customer Type: _____
 Kit # _____
 REQUESTED DUE DATE: 10/8/12

Sampled By (PRINT)

Sampler Signature

SAMPLE DESCRIPTION

DATE TIME TYPE

PRESERVATIVES

ANALYSES REQUEST

Sample ID #

Matrix	DATE	TIME	TYPE	PRESERVATIVES	ANALYSES REQUEST	Sample ID #
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sw	9/25	1245	grab	✓	Free Coliforms Enterococci	9A
20B		1300			✓	10A
21B		1330			✓	11A
22A3		1400			✓	12A
22B		1430			✓	13A
PW-Pump		1445			✓	14A
Reuse 1		1500			✓	15A

RELINQUISHED BY / AFFILIATION: Sam Arden / AMEC DATE: 9/25/12 TIME: 1550

ACCEPTED BY / AFFILIATION: [Signature] DATE: 9/28/12 TIME: 1550

OKAY TO RUN AS IS... YES NO

CLIENT INITIAL: _____ SAMPLES ON ICE YES NO

COMMENTS: gnd

1050 Endeavor Ct., Nokomis, FL 34925-3623 • (941)488-8103 • FAX 484-6774

10090 Bovaorio Rd., Fort Myers, FL 33913 • (239) 590-0337 • FAX (239) 590-0536

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CHAIN-OF-CUSTODY RECORD

PROJECT # **FI2009343**

Sanders Laboratories Inc.
Environmental Testing Services

Mayer ROBERTSON

Page 1 of 1

11/8/2012

Client TEST AMERICA (FOR AMEC)

Report To: TEST AMERICA

Project Name: CITY OF NAPLES STORM WATER

Address TRUPA

Bill To: SAME

Project Location: NAPLES FL

Phone 813-885-7427 Fax _____

P.O. # _____
Preservative: HCl = H, HNO₃ = N, Na₂SO₃ = ST, H₂SO₄ = S, NaOH = SH, NH₄Cl = NH

Customer Type: _____
Kit # _____
REQUESTED DUE DATE: 10/8/12

Sampled By (PRINT) TOM TSATES (AMEC)

Sampler Signature [Signature]

Matrix	SAMPLE DESCRIPTION	DATE	TIME	TYPE	PRESERVATIVES			ANALYSES REQUEST			Sample ID #
					H	Cl	SO ₃	ENTERO	FECA	OTHER	

	7B	9/26/12	730	G				✓	✓		10A
	8B		800					✓	✓		17A
	9B		830					✓	✓		18A
	10B		900					✓	✓		19A
	11B		930					✓	✓		20A
	11 PUMP		945					✓	✓		21A

Bottle Lot #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
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OKAY TO RUN AS IS... T. TSATES AMEC 9/26/12 03:40 AM TRUPA 9/26/12 11:15

CLIENT INITIAL: [Signature]

SAMPLES ONCE Yes No

COMMENTS:



CHAIN-OF-CUSTODY RECORD

PROJECT # **F1209343**

Page ____ of ____

11/8/2012

Client TestAmerica
 Address _____
 Phone _____ Fax _____

Report To: Wendy Robertson
 Bill To: TestAmerica
 P.O. # _____
 Preservative: HCl = H, HNO₃ = N, Na₂S₂O₃ = ST,
 H₂SO₄ = S, NaOH = SH, NH₄Cl = NH

Project Name: _____
 Project Location: _____
 Customer Type: _____
 Kit # _____
 REQUESTED DUE DATE: 10/8/12

Sampled By (PRINT) Sam Arden

Sampler Signature [Signature]

Matrix	SAMPLE DESCRIPTION	DATE	TIME	TYPE	PRESERVATIVES			ANALYSES REQUEST	Sample ID #
					H	S	NH		
SW	CP	9/26	1045	Sub				<u>Enterocolony Fecal Coliform</u>	20A
	14B	9/26	1100						23A
	14-Pump		1115						24A
	GD3		1145						25A
	Reuse 2		1230						26A
	24B		1245						27A
	44 Ave 3		1300						28A

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
<u>Sam Arden / AMEC</u>	<u>9/26</u>	<u>1530</u>	<u>[Signature]</u>	<u>9/26</u>	<u>1530</u>

COMMENTS: OKAY TO RUN AS IS...
 CLIENT INITIAL:
 SAMPLES ON ICE Yes No

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica West Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

TestAmerica Job ID: G2I270439
Client Project/Site: 660-50257
Client Project Description: 660-50257

For:
TestAmerica Tampa
6712 Benjamin Road STE 100
Tampa, FL 33634

Attn: Nancy Robertson



Authorized for release by:
11/8/2012 8:18:37 AM

Jeremy Sadler
Project Manager
jeremyr.sadler@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: TestAmerica Tampa
Project/Site: 660-50257

TestAmerica Job ID: G2I270439

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
RER	Relative error ratio
DER	Duplicate error ratio (normalized absolute difference)
DLC	Decision level concentration
RL	Reporting Limit or Requested Limit (Radiochemistry only)

Case Narrative

TestAmerica West Sacramento Project Number G2I270439

WATER, 1694, Caffeine

Samples: 1, 2

The above samples were extracted at a 50mL sample size due to physical sample properties observed during the extraction process.

There were no other anomalies associated with this project.

Detection Summary

Client: TestAmerica Tampa
Project/Site: 660-50257

TestAmerica Job ID: G2I270439

Client Sample ID: 22A3 (660-50257-12)

Lab Sample ID: G2I270439001

No Detections

Client Sample ID: REUSE 1 (660-50257-15)

Lab Sample ID: G2I270439002

No Detections

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Client Sample Results

Client: TestAmerica Tampa
Project/Site: 660-50257

TestAmerica Job ID: G2I270439

Client Sample ID: 22A3 (660-50257-12)

Lab Sample ID: G2I270439001

Date Collected: 09/25/12 14:00

Matrix: Water

Date Received: 09/27/12 09:15

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caffeine	ND		300	260	ng/L		10/02/12 14:12	10/09/12 06:58	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3-Caffeine	59		25 - 150				10/02/12 14:12	10/09/12 06:58	20

Client Sample ID: REUSE 1 (660-50257-15)

Lab Sample ID: G2I270439002

Date Collected: 09/25/12 15:00

Matrix: Water

Date Received: 09/27/12 09:15

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caffeine	ND		300	260	ng/L		10/02/12 14:12	10/09/12 07:29	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3-Caffeine	65		25 - 150				10/02/12 14:12	10/09/12 07:29	20

Surrogate Summary

Client: TestAmerica Tampa
Project/Site: 660-50257

TestAmerica Job ID: G2I270439

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Matrix: Water

Prep Type: Total

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	3C3-Caffein (25-150)	
G2I270439001	22A3 (660-50257-12)	59	
G2I270439002	REUSE 1 (660-50257-15)	65	
G2J020000093B	Method Blank	37	
G2J020000093C	Lab Control Sample	32	

Surrogate Legend

13C3-Caffeine = 13C3-Caffeine



QC Sample Results

Client: TestAmerica Tampa
 Project/Site: 660-50257

TestAmerica Job ID: G2I270439

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Lab Sample ID: G2J02000093B

Matrix: Water

Analysis Batch: 2276093

Client Sample ID: Method Blank

Prep Type: Total

Prep Batch: 2276093_P

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Caffeine	ND		15	13	ng/L		10/02/12 14:12	10/09/12 05:57	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac	
	%Recovery	Qualifier							
13C3-Caffeine	37		25 - 150			10/02/12 14:12	10/09/12 05:57	1	

Lab Sample ID: G2J02000093C

Matrix: Water

Analysis Batch: 2276093

Client Sample ID: Lab Control Sample

Prep Type: Total

Prep Batch: 2276093_P

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Caffeine	100	101		ng/L		101	60 - 140	
Surrogate	LCS	LCS	Limits			%Rec	%Rec.	
	%Recovery	Qualifier						
13C3-Caffeine	32		25 - 150					



QC Association Summary

Client: TestAmerica Tampa
Project/Site: 660-50257

TestAmerica Job ID: G2I270439

HPLC

Analysis Batch: 2276093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G2I270439001	22A3 (660-50257-12)	Total	Water	1694	
G2I270439002	REUSE 1 (660-50257-15)	Total	Water	1694	
G2J020000093B	Method Blank	Total	Water	1694	
G2J020000093C	Lab Control Sample	Total	Water	1694	

Prep Batch: 2276093_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G2I270439001	22A3 (660-50257-12)	Total	Water	EXTRACTION, SOLID PHASE	
G2I270439002	REUSE 1 (660-50257-15)	Total	Water	EXTRACTION, SOLID PHASE	
G2J020000093B	Method Blank	Total	Water	EXTRACTION, SOLID PHASE	
G2J020000093C	Lab Control Sample	Total	Water	EXTRACTION, SOLID PHASE	

Lab Chronicle

Client: TestAmerica Tampa
Project/Site: 660-50257

TestAmerica Job ID: G2I270439

Client Sample ID: 22A3 (660-50257-12)

Lab Sample ID: G2I270439001

Date Collected: 09/25/12 14:00

Matrix: Water

Date Received: 09/27/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EXTRACTION, SOLID PHASE			2276093_P	10/02/12 14:12	JR	TAL WSC
Total	Analysis	1694		20	2276093	10/09/12 06:58	NS	TAL WSC

Client Sample ID: REUSE 1 (660-50257-15)

Lab Sample ID: G2I270439002

Date Collected: 09/25/12 15:00

Matrix: Water

Date Received: 09/27/12 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EXTRACTION, SOLID PHASE			2276093_P	10/02/12 14:12	JR	TAL WSC
Total	Analysis	1694		20	2276093	10/09/12 07:29	NS	TAL WSC

Laboratory References:

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

Client: TestAmerica Tampa
Project/Site: 660-50257

TestAmerica Job ID: G2I270439

Laboratory: TestAmerica West Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-14
Alaska (UST)	State Program	10	UST-055	12-18-12
Arizona	State Program	9	AZ0708	08-11-13
Arkansas DEQ	State Program	6	88-0691	06-17-13
California	NELAC	9	1119CA	01-31-13
Colorado	State Program	8	N/A	08-31-13
Connecticut	State Program	1	PH-0691	06-30-13
Florida	NELAC	4	E87570	06-30-13
Guam	State Program	9	N/A	08-31-13
Hawaii	State Program	9	N/A	01-31-13
Illinois	NELAC	5	200060	03-17-13
Kansas	NELAC	7	E-10375	10-31-13
Louisiana	NELAC	6	30612	06-30-13
Michigan	State Program	5	9947	01-31-13
Nevada	State Program	9	CA44	07-31-13
New Jersey	NELAC	2	CA005	06-30-13
New York	NELAC	2	11666	04-01-13
Northern Mariana Islands	State Program	9	MP0007	01-31-13
Oregon	NELAC	10	CA200005	03-28-13
Pennsylvania	NELAC	3	68-01272	03-31-13
South Carolina	State Program	4	87014	06-30-13
Texas	NELAC	6	T104704399-08-TX	05-31-13
US Fish & Wildlife	Federal		LE148388-0	02-28-13
USDA	Federal		P330-11-00436	12-30-14
Utah	NELAC	8	QUAN1	01-31-13
Washington	State Program	10	C581	05-05-13
West Virginia	State Program	3	9930C	12-31-12
West Virginia DEP	State Program	3	334	07-31-13
Wyoming	State Program	8	8TMS-Q	01-31-13

Method Summary

Client: TestAmerica Tampa
Project/Site: 660-50257

TestAmerica Job ID: G2I270439

Method	Method Description	Protocol	Laboratory
1694	Pharmaceuticals, HPLC/MS/MS (1694)	CFR136A	TAL WSC

Protocol References:

CFR136A = CFR136A

Laboratory References:

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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Sample Summary

Client: TestAmerica Tampa
Project/Site: 660-50257

TestAmerica Job ID: G2I270439

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
G2I270439001	22A3 (660-50257-12)	Water	09/25/12 14:00	09/27/12 09:15
G2I270439002	REUSE 1 (660-50257-15)	Water	09/25/12 15:00	09/27/12 09:15

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TestAmerica Tampa
 6712 Benjamin Road Suite 100
 Tampa, FL 33634
 Phone: (813) 885-7427 Fax: (813) 885-7049

660-50257

Chain of Custody Record

Page 1
 of 2

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information

Client Contact:
 Mr. Tom Bates
 Company:
 AMEC Environment & Infrastructure, Inc.

Sample #: Tom Bates
 Phone: 239-564-8483

Lab PM: Roberson, Nancy
 E-mail: nancy.roberson@testamericainc.com

Carrier Tracking No(s):

Address:
 222 Industrial Blvd, Suite 155
 City:
 Naples
 State, Zip:
 FL, 34104

Due Date Requested:
 TAT Requested (days): Std

PO #:
 C012200389

Phone:
 239-564-8483 (tel)

PO #:
 6063-12-0207

Project Name:
 City of Naples Stormwater

Project #:
 66003057

Site:
 SSON#:

Email:
 tdbates@amec.com

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=other)
1A3	9/25/12	9:30	G	Water
1B		9:45		Water
2B		10:30		Water
3B		11:00		Water
5B		11:15		Water
15B		11:30		Water
16B		11:45		Water
19B		12:00		Water
6B		12:45		Water
20B		13:00		Water
21B		13:00		Water

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: *AT Bell* Date: 9-17-12

Relinquished by: *J. Bates to FedEx* Date/Time: 9/25/12 1815

Relinquished by: Date/Time: Company: AMEC

Relinquished by: Date/Time: Company:

Custody Seal Intact: A Yes A No Custody Seal No.:

Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Field Filtered Sample Yes/No	200.8 - Copper	365.1 - Phosphorus	361.2, 353.2	2540D - Total Suspended Solids	SUBCONTRACT - Enterococcus and Fecal Coliform	SUBCONTRACT - CAFFEINE	Total Number of containers	Special Instructions/Note:
1A3	9/25/12	9:30	G	Water	N	✓	✓	✓	✓				
1B		9:45		Water		✓	✓	✓	✓				
2B		10:30		Water		✓	✓	✓	✓				
3B		11:00		Water		✓	✓	✓	✓				
5B		11:15		Water		✓	✓	✓	✓				
15B		11:30		Water		✓	✓	✓	✓				
16B		11:45		Water		✓	✓	✓	✓				BAC TIS hand delivered to
19B		12:00		Water		✓	✓	✓	✓				Sender Lab
6B		12:45		Water		✓	✓	✓	✓				FT. Myers
20B		13:00		Water		✓	✓	✓	✓				
21B		13:00		Water		✓	✓	✓	✓				

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For Months

Special Instructions/QC Requirements:

Method of Shipment: *EX*

Received by: *Carol McWhorter* Date/Time: 9/26/12 0850

Received by: Date/Time: Company: TATampa

Received by: Date/Time: Company:

Cooler Temperature(s) °C and Over Ranges: *2.5, 0.7*

TestAmerica Tampa
 6712 Benjamin Road Suite 100
 Tampa, FL 33634
 Phone: (813) 885-7427 Fax (813) 885-7049

Chain of Custody Record

Page 2
 of 2

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information Sampler: Lab Pkt: Carrier Tracking No(s): COC No: 660-43302-14207.2

Client Contact: Mr. Tom Bates Phone: E-Mail: nancy.robertson@testamericainc.com Nancy Robertson, Nancy Page: Page 2 of 4

Company: AMEC Environment & Infrastructure, Inc. Due Date Requested: Analysis Requested

Address: 222 Industrial Blvd., Suite 155 TAT Requested (days):

City: Naples State, Zip: FL, 34104 PO #: C012200389

Phone: 239-564-8483(Tel) WOC #: 6063-12-0207

Email: tdabates@macleec.com Project #: 66003057

Project Name: City of Naples Stormwater SSO#:

Site:

Sample Identification	Sample Date	Sample Time	Sample Type (G=grab)	Matrix (W=water, S=solid, O=overhaul, AT=atmosphere, A=air)	Field Filtered Sample (Yes or No)	Permitted (MSD) (Yes or No)	Analysis Requested	Total Number of Containers	Special Instructions/Note:
22 A3	9/25/12	1400		Water			200.8 - Copper		
22 B		1430		Water			365.1 - Phosphorus		
PW PUMP		1445		Water			361.2, 363.2		
REUSE 1		1500		Water			2640D - Total Suspended Solids		
				Water			SUBCONTRACT - Enterococcus and Fecal Coliform		
				Water			SUBCONTRACT - CAFFEINE		
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					
				Water					

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (Specify)

Empty Kit Relinquished by: *AKS* Date: 9-17-12 Time: 1445 Method of Shipment: *EX*

Relinquished by: Date/Time: Company: Received by: *Coral McWhorter* Date/Time: 9/20/12 0850 Company: *THA*

Relinquished by: *SEE Page 1* Date/Time: Company: Received by: Date/Time: Company:

Custody Seal Intact: Custody Seal No: Cooler Temperature(s) °C and Other Remarks:

Yes No

Special Instructions/OC Requirements: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

BAC T's hand delivered to Sanders Lab FT Myers

Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-50257-1

Login Number: 50257

List Number: 1

Creator: McNulty, Carol

List Source: TestAmerica Tampa

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-50257-1

Login Number: 50257

List Number: 1

Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

List Creation: 09/27/12 11:01 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-50257-1

Login Number: 50257

List Number: 1

Creator: Mitchell, Travis X

List Source: TestAmerica Tallahassee

List Creation: 09/28/12 02:50 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Tampa
6712 Benjamin Road
Suite 100
Tampa, FL 33634
Tel: (813)885-7427

TestAmerica Job ID: 660-50294-1

Client Project/Site: City of Naples StormwaterOLD

For:

AMEC Environment & Infrastructure, Inc.
222 Industrial Blvd., Suite 155
Naples, Florida 34104

Attn: Mr. Tom Bates



Authorized for release by:
11/9/2012 4:09:14 PM

Nancy Robertson
Project Manager II
nancy.robertson@testamericainc.com

LINKS

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results through
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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Qualifiers

Metals

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
U	Indicates that the compound was analyzed for but not detected.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
RER	Relative error ratio
DER	Duplicate error ratio (normalized absolute difference)
DLC	Decision level concentration
RL	Reporting Limit or Requested Limit (Radiochemistry only)

Case Narrative

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Job ID: 660-50294-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative
660-50294-1

Comments

No additional comments.

Receipt

The samples were received on 9/27/2012 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.0° C, 2.6° C and 5.6° C.

Received caffeine bottle broken for CP sample, took volume from another bottle for the test.
test for this sample

Metals

No analytical or quality issues were noted.

General Chemistry

Method 351.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 130003 were outside control limits because analyst failed to spike samples. The associated laboratory control sample (LCS) recovery met acceptance criteria. Sample is flagged with J3.

Method 351.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 130090 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. Sample is flagged with J3.

Method 365.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 96332 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. The sample is flagged with J3.

No other analytical or quality issues were noted.

Detection Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Client Sample ID: 7B

Lab Sample ID: 660-50294-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	20		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.6		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.084	J3	0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	24		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.6		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 8B

Lab Sample ID: 660-50294-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.7	I	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.4		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.077		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	9.2		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.4		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 9B

Lab Sample ID: 660-50294-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.1		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.1		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.047		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	16		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.1		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 10B

Lab Sample ID: 660-50294-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.8	I	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.1	J3	0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.031		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	8.0		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.1		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 11B

Lab Sample ID: 660-50294-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.0		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.99		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.11		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	3.6		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	0.99		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 11 Pump

Lab Sample ID: 660-50294-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.2		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.3		0.20	0.050	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.46	I	0.50	0.10	mg/L	1		353.2	Total/NA
Phosphorus	0.60		0.020	0.0088	mg/L	2		365.1	Total/NA

Detection Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Client Sample ID: 11 Pump (Continued)

Lab Sample ID: 660-50294-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	5.2		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.8		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: CP

Lab Sample ID: 660-50294-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.7	I	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.4		0.20	0.050	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.27	I	0.50	0.10	mg/L	1		353.2	Total/NA
Phosphorus	0.14		0.010	0.0044	mg/L	1		365.1	Total/NA
Nitrogen, Total	1.7		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 14B

Lab Sample ID: 660-50294-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.3		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.9		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.22		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	14		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.9		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 14 Pump

Lab Sample ID: 660-50294-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.6		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.1	J3	0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.16		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	74		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.1		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: GD3

Lab Sample ID: 660-50294-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.5		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.46		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.020		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	8.8		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	0.46	I	0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: Reuse 2

Lab Sample ID: 660-50294-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	4.1		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.96		0.20	0.050	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	1.2		0.50	0.10	mg/L	1		353.2	Total/NA
Phosphorus	0.39		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	1.6		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	2.2		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Detection Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Client Sample ID: 24B

Lab Sample ID: 660-50294-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.4		2.0	0.14	ug/L	1		200.8	Total
Nitrogen, Kjeldahl	2.7		0.20	0.050	mg/L	1		351.2	Recoverable Total/NA
Phosphorus	1.3		0.050	0.022	mg/L	5		365.1	Total/NA
Total Suspended Solids	14		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	2.7		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 4th Ave 3

Lab Sample ID: 660-50294-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.2		2.0	0.14	ug/L	1		200.8	Total
Nitrogen, Kjeldahl	1.2		0.20	0.050	mg/L	1		351.2	Recoverable Total/NA
Phosphorus	0.16		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	2.0		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.2		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA



Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Client Sample ID: 7B

Lab Sample ID: 660-50294-1

Date Collected: 09/26/12 07:30

Matrix: Water

Date Received: 09/27/12 08:40

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	20		2.0	0.14	ug/L		10/02/12 09:27	11/08/12 22:44	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.6		0.20	0.050	mg/L		10/05/12 15:30	10/08/12 14:24	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 17:20	1
Phosphorus	0.084	J3	0.010	0.0044	mg/L		10/02/12 10:03	10/03/12 11:21	1
Total Suspended Solids	24		1.0	1.0	mg/L			10/02/12 07:57	1
Nitrogen, Total	1.6		0.70	0.15	mg/L			10/09/12 08:20	1



Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Client Sample ID: 8B

Lab Sample ID: 660-50294-2

Date Collected: 09/26/12 08:00

Matrix: Water

Date Received: 09/27/12 08:40

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.7	I	2.0	0.14	ug/L		10/02/12 09:27	11/08/12 22:53	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.4		0.20	0.050	mg/L		10/05/12 15:30	10/08/12 14:25	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 17:21	1
Phosphorus	0.077		0.010	0.0044	mg/L		10/02/12 10:03	10/03/12 11:30	1
Total Suspended Solids	9.2		1.0	1.0	mg/L			10/02/12 07:57	1
Nitrogen, Total	1.4		0.70	0.15	mg/L			10/09/12 08:20	1



Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Client Sample ID: 9B

Lab Sample ID: 660-50294-3

Date Collected: 09/26/12 08:30

Matrix: Water

Date Received: 09/27/12 08:40

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.1		2.0	0.14	ug/L		10/02/12 09:27	11/08/12 22:57	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.1		0.20	0.050	mg/L		10/03/12 16:00	10/04/12 21:20	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 17:23	1
Phosphorus	0.047		0.010	0.0044	mg/L		10/02/12 10:03	10/03/12 11:31	1
Total Suspended Solids	16		1.0	1.0	mg/L			10/02/12 07:57	1
Nitrogen, Total	1.1		0.70	0.15	mg/L			10/09/12 08:20	1



Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Client Sample ID: 10B

Lab Sample ID: 660-50294-4

Date Collected: 09/26/12 09:00

Matrix: Water

Date Received: 09/27/12 08:40

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.8	I	2.0	0.14	ug/L		10/02/12 09:27	11/08/12 23:01	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.1	J3	0.20	0.050	mg/L		10/03/12 16:00	10/04/12 21:24	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 17:24	1
Phosphorus	0.031		0.010	0.0044	mg/L		10/02/12 10:03	10/03/12 11:40	1
Total Suspended Solids	8.0		1.0	1.0	mg/L			10/02/12 07:57	1
Nitrogen, Total	1.1		0.70	0.15	mg/L			10/09/12 08:20	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Client Sample ID: 11B

Lab Sample ID: 660-50294-5

Date Collected: 09/26/12 09:30

Matrix: Water

Date Received: 09/27/12 08:40

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.0		2.0	0.14	ug/L		10/02/12 09:27	11/08/12 23:21	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.99		0.20	0.050	mg/L		10/05/12 15:30	10/08/12 14:29	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 17:25	1
Phosphorus	0.11		0.010	0.0044	mg/L		10/02/12 10:03	10/03/12 11:42	1
Total Suspended Solids	3.6		1.0	1.0	mg/L			10/03/12 07:23	1
Nitrogen, Total	0.99		0.70	0.15	mg/L			10/09/12 08:20	1



Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Client Sample ID: 11 Pump

Lab Sample ID: 660-50294-6

Date Collected: 09/26/12 09:45

Matrix: Water

Date Received: 09/27/12 08:40

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.2		2.0	0.14	ug/L		10/02/12 09:27	11/08/12 23:25	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.3		0.20	0.050	mg/L		10/05/12 15:30	10/08/12 14:31	1
Nitrate Nitrite as N	0.46	I	0.50	0.10	mg/L			10/04/12 17:26	1
Phosphorus	0.60		0.020	0.0088	mg/L		10/02/12 10:03	10/03/12 12:31	2
Total Suspended Solids	5.2		1.0	1.0	mg/L			10/03/12 07:23	1
Nitrogen, Total	1.8		0.70	0.15	mg/L			10/09/12 08:20	1



Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Client Sample ID: CP

Lab Sample ID: 660-50294-7

Date Collected: 09/26/12 10:45

Matrix: Water

Date Received: 09/27/12 08:40

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.7	I	2.0	0.14	ug/L		10/02/12 09:27	11/08/12 23:29	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.4		0.20	0.050	mg/L		10/05/12 15:30	10/08/12 14:32	1
Nitrate Nitrite as N	0.27	I	0.50	0.10	mg/L			10/04/12 17:28	1
Phosphorus	0.14		0.010	0.0044	mg/L		10/02/12 10:03	10/03/12 11:45	1
Nitrogen, Total	1.7		0.70	0.15	mg/L			10/09/12 08:20	1



Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Client Sample ID: 14B

Lab Sample ID: 660-50294-8

Date Collected: 09/26/12 11:00

Matrix: Water

Date Received: 09/27/12 08:40

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.3		2.0	0.14	ug/L		10/02/12 09:27	11/08/12 23:34	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.9		0.20	0.050	mg/L		10/05/12 15:30	10/08/12 14:33	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 17:29	1
Phosphorus	0.22		0.010	0.0044	mg/L		10/02/12 10:03	10/03/12 12:33	1
Total Suspended Solids	14		1.0	1.0	mg/L			10/03/12 07:23	1
Nitrogen, Total	1.9		0.70	0.15	mg/L			10/09/12 08:37	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Client Sample ID: 14 Pump

Lab Sample ID: 660-50294-9

Date Collected: 09/26/12 11:15

Matrix: Water

Date Received: 09/27/12 08:40

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.6		2.0	0.14	ug/L		10/02/12 09:27	11/08/12 23:38	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.1	J3	0.20	0.050	mg/L		10/05/12 15:30	10/08/12 14:37	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 17:30	1
Phosphorus	0.16		0.010	0.0044	mg/L		10/02/12 10:03	10/03/12 11:51	1
Total Suspended Solids	74		1.0	1.0	mg/L			10/03/12 07:23	1
Nitrogen, Total	1.1		0.70	0.15	mg/L			10/09/12 08:37	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Client Sample ID: GD3

Lab Sample ID: 660-50294-10

Date Collected: 09/26/12 11:45

Matrix: Water

Date Received: 09/27/12 08:40

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.5		2.0	0.14	ug/L		10/02/12 09:27	11/08/12 23:42	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.46		0.20	0.050	mg/L		10/05/12 15:30	10/08/12 14:41	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 18:50	1
Phosphorus	0.020		0.010	0.0044	mg/L		10/02/12 10:03	10/03/12 11:52	1
Total Suspended Solids	8.8		1.0	1.0	mg/L			10/03/12 07:23	1
Nitrogen, Total	0.46	I	0.70	0.15	mg/L			10/09/12 08:37	1

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Client Sample ID: Reuse 2

Lab Sample ID: 660-50294-11

Date Collected: 09/26/12 12:30

Matrix: Water

Date Received: 09/27/12 08:40

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	4.1		2.0	0.14	ug/L		10/02/12 09:27	11/08/12 23:47	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.96		0.20	0.050	mg/L		10/05/12 15:30	10/08/12 14:42	1
Nitrate Nitrite as N	1.2		0.50	0.10	mg/L			10/04/12 18:48	1
Phosphorus	0.39		0.010	0.0044	mg/L		10/02/12 10:03	10/03/12 11:54	1
Total Suspended Solids	1.6		1.0	1.0	mg/L			10/03/12 07:23	1
Nitrogen, Total	2.2		0.70	0.15	mg/L			10/09/12 08:37	1



Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Client Sample ID: 24B

Lab Sample ID: 660-50294-12

Date Collected: 09/26/12 12:45

Matrix: Water

Date Received: 09/27/12 08:40

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.4		2.0	0.14	ug/L		10/02/12 09:27	11/08/12 23:51	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	2.7		0.20	0.050	mg/L		10/05/12 15:30	10/08/12 14:44	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 18:52	1
Phosphorus	1.3		0.050	0.022	mg/L		10/02/12 10:03	10/03/12 12:34	5
Total Suspended Solids	14		1.0	1.0	mg/L			10/03/12 07:23	1
Nitrogen, Total	2.7		0.70	0.15	mg/L			10/09/12 08:37	1



Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Client Sample ID: 4th Ave 3

Lab Sample ID: 660-50294-13

Date Collected: 09/26/12 13:00

Matrix: Water

Date Received: 09/27/12 08:40

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.2		2.0	0.14	ug/L		10/02/12 09:27	11/08/12 23:56	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.2		0.20	0.050	mg/L		10/05/12 15:30	10/08/12 14:45	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 18:49	1
Phosphorus	0.16		0.010	0.0044	mg/L		10/02/12 10:03	10/03/12 11:57	1
Total Suspended Solids	2.0		1.0	1.0	mg/L			10/03/12 07:23	1
Nitrogen, Total	1.2		0.70	0.15	mg/L			10/09/12 08:37	1

Surrogate Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Matrix: Water

Prep Type: Total

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	3C3-Caffein (25-150)
660-50294-6	11 Pump	45
660-50294-7	CP	72
G2J010411003	GD3 (360-50294-10)	54
G2J010411004	REUSE 2 (360-50294-11)	82
G2J010411005	4TH AVE 3 (360-50294-13)	66
G2J020000093B	Method Blank	37
G2J020000093C	Lab Control Sample	32

Surrogate Legend

13C3-Caffeine = 13C3-Caffeine

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 180-50442/1-A
 Matrix: Water
 Analysis Batch: 54826

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 50442

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.14	U	2.0	0.14	ug/L		10/02/12 09:27	11/08/12 22:31	1

Lab Sample ID: LCS 180-50442/2-A
 Matrix: Water
 Analysis Batch: 54826

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 50442

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	250	220		ug/L		88	85 - 115

Lab Sample ID: LCSD 180-50442/3-A
 Matrix: Water
 Analysis Batch: 54826

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total Recoverable
 Prep Batch: 50442

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	250	221		ug/L		88	85 - 115	0	20

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 660-129905/10-A
 Matrix: Water
 Analysis Batch: 130003

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 129905

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.050	U	0.20	0.050	mg/L		10/03/12 16:00	10/04/12 21:03	1

Lab Sample ID: LCS 660-129905/11-A
 Matrix: Water
 Analysis Batch: 130003

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 129905

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	3.00	2.74		mg/L		91	90 - 110

Lab Sample ID: 660-50294-4 MS
 Matrix: Water
 Analysis Batch: 130003

Client Sample ID: 10B
 Prep Type: Total/NA
 Prep Batch: 129905

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	1.1	J3	3.00	0.950	J3	mg/L		-4	90 - 110

Lab Sample ID: 660-50294-4 MSD
 Matrix: Water
 Analysis Batch: 130003

Client Sample ID: 10B
 Prep Type: Total/NA
 Prep Batch: 129905

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Kjeldahl	1.1	J3	3.00	1.01	J3	mg/L		-2	90 - 110	6	30

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: MB 660-130027/10-A
Matrix: Water
Analysis Batch: 130090

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 130027

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.050	U	0.20	0.050	mg/L		10/05/12 15:30	10/08/12 14:16	1

Lab Sample ID: LCS 660-130027/11-A
Matrix: Water
Analysis Batch: 130090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 130027

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	3.00	2.74		mg/L		91	90 - 110

Lab Sample ID: 660-50294-9 MS
Matrix: Water
Analysis Batch: 130090

Client Sample ID: 14 Pump
Prep Type: Total/NA
Prep Batch: 130027

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	1.1	J3	2.47	3.81	J3	mg/L		111	90 - 110

Lab Sample ID: 660-50294-9 MSD
Matrix: Water
Analysis Batch: 130090

Client Sample ID: 14 Pump
Prep Type: Total/NA
Prep Batch: 130027

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Kjeldahl	1.1	J3	2.47	3.94	J3	mg/L		116	90 - 110	3	30

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 660-129968/3
Matrix: Water
Analysis Batch: 129968

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 17:00	1

Lab Sample ID: LCS 660-129968/4
Matrix: Water
Analysis Batch: 129968

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	1.03		mg/L		103	90 - 110

Lab Sample ID: 660-50294-1 MS
Matrix: Water
Analysis Batch: 129968

Client Sample ID: 7B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.10	U	1.00	0.991		mg/L		99	90 - 110

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 660-50294-1 MSD

Matrix: Water

Analysis Batch: 129968

Client Sample ID: 7B

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.10	U	1.00	0.995		mg/L		100	90 - 110	0	30

Lab Sample ID: MB 660-130017/3

Matrix: Water

Analysis Batch: 130017

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 18:46	1

Lab Sample ID: LCS 660-130017/4

Matrix: Water

Analysis Batch: 130017

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	1.05		mg/L		105	90 - 110

Lab Sample ID: 660-50294-13 MS

Matrix: Water

Analysis Batch: 130017

Client Sample ID: 4th Ave 3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.10	U	1.00	0.969		mg/L		97	90 - 110

Lab Sample ID: 660-50294-13 MSD

Matrix: Water

Analysis Batch: 130017

Client Sample ID: 4th Ave 3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.10	U	1.00	0.981		mg/L		98	90 - 110	1	30

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 640-96283/3-A

Matrix: Water

Analysis Batch: 96332

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 96283

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.0044	U	0.010	0.0044	mg/L		10/02/12 10:03	10/03/12 11:15	1

Lab Sample ID: LCS 640-96283/5-A

Matrix: Water

Analysis Batch: 96332

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 96283

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.100	0.0990		mg/L		99	90 - 110

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: LCSD 640-96283/6-A
Matrix: Water
Analysis Batch: 96332

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 96283

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus	0.100	0.0948		mg/L		95	90 - 110	4	30

Lab Sample ID: 660-50294-1 MS
Matrix: Water
Analysis Batch: 96332

Client Sample ID: 7B
Prep Type: Total/NA
Prep Batch: 96283

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.084	J3	0.100	0.202	J3	mg/L		118	90 - 110

Lab Sample ID: 660-50294-1 MSD
Matrix: Water
Analysis Batch: 96332

Client Sample ID: 7B
Prep Type: Total/NA
Prep Batch: 96283

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus	0.084	J3	0.100	0.197	J3	mg/L		113	90 - 110	3	30

Lab Sample ID: 660-50294-1 DU
Matrix: Water
Analysis Batch: 96332

Client Sample ID: 7B
Prep Type: Total/NA
Prep Batch: 96283

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	RPD	RPD Limit
Phosphorus	0.084	J3		0.0785		mg/L			7	30

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 660-129815/1
Matrix: Water
Analysis Batch: 129815

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1.0	U	1.0	1.0	mg/L			10/02/12 07:57	1

Lab Sample ID: LCS 660-129815/2
Matrix: Water
Analysis Batch: 129815

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	100	94.8		mg/L		95	80 - 120

Lab Sample ID: 660-50294-4 DU
Matrix: Water
Analysis Batch: 129815

Client Sample ID: 10B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	8.0			8.40		mg/L		5	20

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Method: SM 2540D - Solids, Total Suspended (TSS) (Continued)

Lab Sample ID: MB 660-129857/1

Matrix: Water

Analysis Batch: 129857

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1.0	U	1.0	1.0	mg/L			10/03/12 07:23	1

Lab Sample ID: LCS 660-129857/2

Matrix: Water

Analysis Batch: 129857

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	100	94.4		mg/L		94	80 - 120

Lab Sample ID: 660-50294-5 DU

Matrix: Water

Analysis Batch: 129857

Client Sample ID: 11B

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	3.6		3.60		mg/L		0	20

Lab Sample ID: 660-50294-13 DU

Matrix: Water

Analysis Batch: 129857

Client Sample ID: 4th Ave 3

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	2.0		2.40		mg/L		18	20

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Metals

Prep Batch: 50442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50294-1	7B	Total Recoverable	Water	200.8	
660-50294-2	8B	Total Recoverable	Water	200.8	
660-50294-3	9B	Total Recoverable	Water	200.8	
660-50294-4	10B	Total Recoverable	Water	200.8	
660-50294-5	11B	Total Recoverable	Water	200.8	
660-50294-6	11 Pump	Total Recoverable	Water	200.8	
660-50294-7	CP	Total Recoverable	Water	200.8	
660-50294-8	14B	Total Recoverable	Water	200.8	
660-50294-9	14 Pump	Total Recoverable	Water	200.8	
660-50294-10	GD3	Total Recoverable	Water	200.8	
660-50294-11	Reuse 2	Total Recoverable	Water	200.8	
660-50294-12	24B	Total Recoverable	Water	200.8	
660-50294-13	4th Ave 3	Total Recoverable	Water	200.8	
LCS 180-50442/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 180-50442/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
MB 180-50442/1-A	Method Blank	Total Recoverable	Water	200.8	

Analysis Batch: 54826

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50294-1	7B	Total Recoverable	Water	200.8	50442
660-50294-2	8B	Total Recoverable	Water	200.8	50442
660-50294-3	9B	Total Recoverable	Water	200.8	50442
660-50294-4	10B	Total Recoverable	Water	200.8	50442
660-50294-5	11B	Total Recoverable	Water	200.8	50442
660-50294-6	11 Pump	Total Recoverable	Water	200.8	50442
660-50294-7	CP	Total Recoverable	Water	200.8	50442
660-50294-8	14B	Total Recoverable	Water	200.8	50442
660-50294-9	14 Pump	Total Recoverable	Water	200.8	50442
660-50294-10	GD3	Total Recoverable	Water	200.8	50442
660-50294-11	Reuse 2	Total Recoverable	Water	200.8	50442
660-50294-12	24B	Total Recoverable	Water	200.8	50442
660-50294-13	4th Ave 3	Total Recoverable	Water	200.8	50442
LCS 180-50442/2-A	Lab Control Sample	Total Recoverable	Water	200.8	50442
LCSD 180-50442/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	50442
MB 180-50442/1-A	Method Blank	Total Recoverable	Water	200.8	50442

General Chemistry

Prep Batch: 96283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50294-1	7B	Total/NA	Water	365.2/365.3/365	
660-50294-1 DU	7B	Total/NA	Water	365.2/365.3/365	
660-50294-1 MS	7B	Total/NA	Water	365.2/365.3/365	
660-50294-1 MSD	7B	Total/NA	Water	365.2/365.3/365	
660-50294-2	8B	Total/NA	Water	365.2/365.3/365	
660-50294-3	9B	Total/NA	Water	365.2/365.3/365	
660-50294-4	10B	Total/NA	Water	365.2/365.3/365	
660-50294-5	11B	Total/NA	Water	365.2/365.3/365	
660-50294-6	11 Pump	Total/NA	Water	365.2/365.3/365	
660-50294-7	CP	Total/NA	Water	365.2/365.3/365	
660-50294-8	14B	Total/NA	Water	365.2/365.3/365	
660-50294-9	14 Pump	Total/NA	Water	365.2/365.3/365	

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

General Chemistry (Continued)

Prep Batch: 96283 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50294-10	GD3	Total/NA	Water	365.2/365.3/365	
660-50294-11	Reuse 2	Total/NA	Water	365.2/365.3/365	
660-50294-12	24B	Total/NA	Water	365.2/365.3/365	
660-50294-13	4th Ave 3	Total/NA	Water	365.2/365.3/365	
LCS 640-96283/5-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
LCSD 640-96283/6-A	Lab Control Sample Dup	Total/NA	Water	365.2/365.3/365	
MB 640-96283/3-A	Method Blank	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 96332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50294-1	7B	Total/NA	Water	365.1	96283
660-50294-1 DU	7B	Total/NA	Water	365.1	96283
660-50294-1 MS	7B	Total/NA	Water	365.1	96283
660-50294-1 MSD	7B	Total/NA	Water	365.1	96283
660-50294-2	8B	Total/NA	Water	365.1	96283
660-50294-3	9B	Total/NA	Water	365.1	96283
660-50294-4	10B	Total/NA	Water	365.1	96283
660-50294-5	11B	Total/NA	Water	365.1	96283
660-50294-6	11 Pump	Total/NA	Water	365.1	96283
660-50294-7	CP	Total/NA	Water	365.1	96283
660-50294-8	14B	Total/NA	Water	365.1	96283
660-50294-9	14 Pump	Total/NA	Water	365.1	96283
660-50294-10	GD3	Total/NA	Water	365.1	96283
660-50294-11	Reuse 2	Total/NA	Water	365.1	96283
660-50294-12	24B	Total/NA	Water	365.1	96283
660-50294-13	4th Ave 3	Total/NA	Water	365.1	96283
LCS 640-96283/5-A	Lab Control Sample	Total/NA	Water	365.1	96283
LCSD 640-96283/6-A	Lab Control Sample Dup	Total/NA	Water	365.1	96283
MB 640-96283/3-A	Method Blank	Total/NA	Water	365.1	96283

Analysis Batch: 129815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50294-1	7B	Total/NA	Water	SM 2540D	
660-50294-2	8B	Total/NA	Water	SM 2540D	
660-50294-3	9B	Total/NA	Water	SM 2540D	
660-50294-4	10B	Total/NA	Water	SM 2540D	
660-50294-4 DU	10B	Total/NA	Water	SM 2540D	
LCS 660-129815/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 660-129815/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 129857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50294-5	11B	Total/NA	Water	SM 2540D	
660-50294-5 DU	11B	Total/NA	Water	SM 2540D	
660-50294-6	11 Pump	Total/NA	Water	SM 2540D	
660-50294-8	14B	Total/NA	Water	SM 2540D	
660-50294-9	14 Pump	Total/NA	Water	SM 2540D	
660-50294-10	GD3	Total/NA	Water	SM 2540D	
660-50294-11	Reuse 2	Total/NA	Water	SM 2540D	
660-50294-12	24B	Total/NA	Water	SM 2540D	
660-50294-13	4th Ave 3	Total/NA	Water	SM 2540D	
660-50294-13 DU	4th Ave 3	Total/NA	Water	SM 2540D	

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

General Chemistry (Continued)

Analysis Batch: 129857 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-129857/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 660-129857/1	Method Blank	Total/NA	Water	SM 2540D	

Prep Batch: 129905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50294-3	9B	Total/NA	Water	351.2	
660-50294-4	10B	Total/NA	Water	351.2	
660-50294-4 MS	10B	Total/NA	Water	351.2	
660-50294-4 MSD	10B	Total/NA	Water	351.2	
LCS 660-129905/11-A	Lab Control Sample	Total/NA	Water	351.2	
MB 660-129905/10-A	Method Blank	Total/NA	Water	351.2	

Analysis Batch: 129968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50294-1	7B	Total/NA	Water	353.2	
660-50294-1 MS	7B	Total/NA	Water	353.2	
660-50294-1 MSD	7B	Total/NA	Water	353.2	
660-50294-2	8B	Total/NA	Water	353.2	
660-50294-3	9B	Total/NA	Water	353.2	
660-50294-4	10B	Total/NA	Water	353.2	
660-50294-5	11B	Total/NA	Water	353.2	
660-50294-6	11 Pump	Total/NA	Water	353.2	
660-50294-7	CP	Total/NA	Water	353.2	
660-50294-8	14B	Total/NA	Water	353.2	
660-50294-9	14 Pump	Total/NA	Water	353.2	
LCS 660-129968/4	Lab Control Sample	Total/NA	Water	353.2	
MB 660-129968/3	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 130003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50294-3	9B	Total/NA	Water	351.2	129905
660-50294-4	10B	Total/NA	Water	351.2	129905
660-50294-4 MS	10B	Total/NA	Water	351.2	129905
660-50294-4 MSD	10B	Total/NA	Water	351.2	129905
LCS 660-129905/11-A	Lab Control Sample	Total/NA	Water	351.2	129905
MB 660-129905/10-A	Method Blank	Total/NA	Water	351.2	129905

Analysis Batch: 130017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50294-10	GD3	Total/NA	Water	353.2	
660-50294-11	Reuse 2	Total/NA	Water	353.2	
660-50294-12	24B	Total/NA	Water	353.2	
660-50294-13	4th Ave 3	Total/NA	Water	353.2	
660-50294-13 MS	4th Ave 3	Total/NA	Water	353.2	
660-50294-13 MSD	4th Ave 3	Total/NA	Water	353.2	
LCS 660-130017/4	Lab Control Sample	Total/NA	Water	353.2	
MB 660-130017/3	Method Blank	Total/NA	Water	353.2	

Prep Batch: 130027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50294-1	7B	Total/NA	Water	351.2	
660-50294-2	8B	Total/NA	Water	351.2	

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

General Chemistry (Continued)

Prep Batch: 130027 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50294-5	11B	Total/NA	Water	351.2	
660-50294-6	11 Pump	Total/NA	Water	351.2	
660-50294-7	CP	Total/NA	Water	351.2	
660-50294-8	14B	Total/NA	Water	351.2	
660-50294-9	14 Pump	Total/NA	Water	351.2	
660-50294-9 MS	14 Pump	Total/NA	Water	351.2	
660-50294-9 MSD	14 Pump	Total/NA	Water	351.2	
660-50294-10	GD3	Total/NA	Water	351.2	
660-50294-11	Reuse 2	Total/NA	Water	351.2	
660-50294-12	24B	Total/NA	Water	351.2	
660-50294-13	4th Ave 3	Total/NA	Water	351.2	
LCS 660-130027/11-A	Lab Control Sample	Total/NA	Water	351.2	
MB 660-130027/10-A	Method Blank	Total/NA	Water	351.2	

Analysis Batch: 130090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50294-1	7B	Total/NA	Water	351.2	130027
660-50294-2	8B	Total/NA	Water	351.2	130027
660-50294-5	11B	Total/NA	Water	351.2	130027
660-50294-6	11 Pump	Total/NA	Water	351.2	130027
660-50294-7	CP	Total/NA	Water	351.2	130027
660-50294-8	14B	Total/NA	Water	351.2	130027
660-50294-9	14 Pump	Total/NA	Water	351.2	130027
660-50294-9 MS	14 Pump	Total/NA	Water	351.2	130027
660-50294-9 MSD	14 Pump	Total/NA	Water	351.2	130027
660-50294-10	GD3	Total/NA	Water	351.2	130027
660-50294-11	Reuse 2	Total/NA	Water	351.2	130027
660-50294-12	24B	Total/NA	Water	351.2	130027
660-50294-13	4th Ave 3	Total/NA	Water	351.2	130027
LCS 660-130027/11-A	Lab Control Sample	Total/NA	Water	351.2	130027
MB 660-130027/10-A	Method Blank	Total/NA	Water	351.2	130027

Analysis Batch: 130109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50294-1	7B	Total/NA	Water	Total Nitrogen	
660-50294-2	8B	Total/NA	Water	Total Nitrogen	
660-50294-3	9B	Total/NA	Water	Total Nitrogen	
660-50294-4	10B	Total/NA	Water	Total Nitrogen	
660-50294-5	11B	Total/NA	Water	Total Nitrogen	
660-50294-6	11 Pump	Total/NA	Water	Total Nitrogen	
660-50294-7	CP	Total/NA	Water	Total Nitrogen	
660-50294-8	14B	Total/NA	Water	Total Nitrogen	
660-50294-9	14 Pump	Total/NA	Water	Total Nitrogen	
660-50294-10	GD3	Total/NA	Water	Total Nitrogen	
660-50294-11	Reuse 2	Total/NA	Water	Total Nitrogen	
660-50294-12	24B	Total/NA	Water	Total Nitrogen	
660-50294-13	4th Ave 3	Total/NA	Water	Total Nitrogen	

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Client Sample ID: 7B

Lab Sample ID: 660-50294-1

Date Collected: 09/26/12 07:30

Matrix: Water

Date Received: 09/27/12 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50442	10/02/12 09:27	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	54826	11/08/12 22:44	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96283	10/02/12 10:03	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96332	10/03/12 11:21	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	129815	10/02/12 07:57	TO	TAL TAM
Total/NA	Analysis	353.2		1	129968	10/04/12 17:20	TO	TAL TAM
Total/NA	Prep	351.2			130027	10/05/12 15:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	130090	10/08/12 14:24	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	130109	10/09/12 08:20	RWF	TAL TAM

Client Sample ID: 8B

Lab Sample ID: 660-50294-2

Date Collected: 09/26/12 08:00

Matrix: Water

Date Received: 09/27/12 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50442	10/02/12 09:27	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	54826	11/08/12 22:53	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96283	10/02/12 10:03	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96332	10/03/12 11:30	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	129815	10/02/12 07:57	TO	TAL TAM
Total/NA	Analysis	353.2		1	129968	10/04/12 17:21	TO	TAL TAM
Total/NA	Prep	351.2			130027	10/05/12 15:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	130090	10/08/12 14:25	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	130109	10/09/12 08:20	RWF	TAL TAM

Client Sample ID: 9B

Lab Sample ID: 660-50294-3

Date Collected: 09/26/12 08:30

Matrix: Water

Date Received: 09/27/12 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50442	10/02/12 09:27	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	54826	11/08/12 22:57	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96283	10/02/12 10:03	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96332	10/03/12 11:31	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	129815	10/02/12 07:57	TO	TAL TAM
Total/NA	Analysis	353.2		1	129968	10/04/12 17:23	TO	TAL TAM
Total/NA	Prep	351.2			129905	10/03/12 16:00	TO	TAL TAM
Total/NA	Analysis	351.2		1	130003	10/04/12 21:20	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	130109	10/09/12 08:20	RWF	TAL TAM

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Client Sample ID: 10B

Lab Sample ID: 660-50294-4

Date Collected: 09/26/12 09:00

Matrix: Water

Date Received: 09/27/12 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50442	10/02/12 09:27	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	54826	11/08/12 23:01	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96283	10/02/12 10:03	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96332	10/03/12 11:40	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	129815	10/02/12 07:57	TO	TAL TAM
Total/NA	Analysis	353.2		1	129968	10/04/12 17:24	TO	TAL TAM
Total/NA	Prep	351.2			129905	10/03/12 16:00	TO	TAL TAM
Total/NA	Analysis	351.2		1	130003	10/04/12 21:24	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	130109	10/09/12 08:20	RWF	TAL TAM

Client Sample ID: 11B

Lab Sample ID: 660-50294-5

Date Collected: 09/26/12 09:30

Matrix: Water

Date Received: 09/27/12 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50442	10/02/12 09:27	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	54826	11/08/12 23:21	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96283	10/02/12 10:03	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96332	10/03/12 11:42	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	129857	10/03/12 07:23	TO	TAL TAM
Total/NA	Analysis	353.2		1	129968	10/04/12 17:25	TO	TAL TAM
Total/NA	Prep	351.2			130027	10/05/12 15:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	130090	10/08/12 14:29	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	130109	10/09/12 08:20	RWF	TAL TAM

Client Sample ID: 11 Pump

Lab Sample ID: 660-50294-6

Date Collected: 09/26/12 09:45

Matrix: Water

Date Received: 09/27/12 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50442	10/02/12 09:27	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	54826	11/08/12 23:25	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96283	10/02/12 10:03	AJN	TAL TAL
Total/NA	Analysis	365.1		2	96332	10/03/12 12:31	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	129857	10/03/12 07:23	TO	TAL TAM
Total/NA	Analysis	353.2		1	129968	10/04/12 17:26	TO	TAL TAM
Total/NA	Prep	351.2			130027	10/05/12 15:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	130090	10/08/12 14:31	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	130109	10/09/12 08:20	RWF	TAL TAM

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Client Sample ID: CP

Lab Sample ID: 660-50294-7

Date Collected: 09/26/12 10:45

Matrix: Water

Date Received: 09/27/12 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50442	10/02/12 09:27	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	54826	11/08/12 23:29	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96283	10/02/12 10:03	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96332	10/03/12 11:45	AJN	TAL TAL
Total/NA	Analysis	353.2		1	129968	10/04/12 17:28	TO	TAL TAM
Total/NA	Prep	351.2			130027	10/05/12 15:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	130090	10/08/12 14:32	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	130109	10/09/12 08:20	RWF	TAL TAM

Client Sample ID: 14B

Lab Sample ID: 660-50294-8

Date Collected: 09/26/12 11:00

Matrix: Water

Date Received: 09/27/12 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50442	10/02/12 09:27	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	54826	11/08/12 23:34	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96283	10/02/12 10:03	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96332	10/03/12 12:33	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	129857	10/03/12 07:23	TO	TAL TAM
Total/NA	Analysis	353.2		1	129968	10/04/12 17:29	TO	TAL TAM
Total/NA	Prep	351.2			130027	10/05/12 15:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	130090	10/08/12 14:33	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	130109	10/09/12 08:37	RWF	TAL TAM

Client Sample ID: 14 Pump

Lab Sample ID: 660-50294-9

Date Collected: 09/26/12 11:15

Matrix: Water

Date Received: 09/27/12 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50442	10/02/12 09:27	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	54826	11/08/12 23:38	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96283	10/02/12 10:03	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96332	10/03/12 11:51	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	129857	10/03/12 07:23	TO	TAL TAM
Total/NA	Analysis	353.2		1	129968	10/04/12 17:30	TO	TAL TAM
Total/NA	Prep	351.2			130027	10/05/12 15:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	130090	10/08/12 14:37	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	130109	10/09/12 08:37	RWF	TAL TAM

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Client Sample ID: GD3

Lab Sample ID: 660-50294-10

Date Collected: 09/26/12 11:45

Matrix: Water

Date Received: 09/27/12 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50442	10/02/12 09:27	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	54826	11/08/12 23:42	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96283	10/02/12 10:03	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96332	10/03/12 11:52	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	129857	10/03/12 07:23	TO	TAL TAM
Total/NA	Analysis	353.2		1	130017	10/04/12 18:50	TO	TAL TAM
Total/NA	Prep	351.2			130027	10/05/12 15:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	130090	10/08/12 14:41	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	130109	10/09/12 08:37	RWF	TAL TAM

Client Sample ID: Reuse 2

Lab Sample ID: 660-50294-11

Date Collected: 09/26/12 12:30

Matrix: Water

Date Received: 09/27/12 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50442	10/02/12 09:27	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	54826	11/08/12 23:47	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96283	10/02/12 10:03	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96332	10/03/12 11:54	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	129857	10/03/12 07:23	TO	TAL TAM
Total/NA	Analysis	353.2		1	130017	10/04/12 18:48	TO	TAL TAM
Total/NA	Prep	351.2			130027	10/05/12 15:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	130090	10/08/12 14:42	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	130109	10/09/12 08:37	RWF	TAL TAM

Client Sample ID: 24B

Lab Sample ID: 660-50294-12

Date Collected: 09/26/12 12:45

Matrix: Water

Date Received: 09/27/12 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50442	10/02/12 09:27	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	54826	11/08/12 23:51	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96283	10/02/12 10:03	AJN	TAL TAL
Total/NA	Analysis	365.1		5	96332	10/03/12 12:34	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	129857	10/03/12 07:23	TO	TAL TAM
Total/NA	Analysis	353.2		1	130017	10/04/12 18:52	TO	TAL TAM
Total/NA	Prep	351.2			130027	10/05/12 15:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	130090	10/08/12 14:44	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	130109	10/09/12 08:37	RWF	TAL TAM

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Client Sample ID: 4th Ave 3

Lab Sample ID: 660-50294-13

Date Collected: 09/26/12 13:00

Matrix: Water

Date Received: 09/27/12 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50442	10/02/12 09:27	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	54826	11/08/12 23:56	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96283	10/02/12 10:03	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96332	10/03/12 11:57	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	129857	10/03/12 07:23	TO	TAL TAM
Total/NA	Analysis	353.2		1	130017	10/04/12 18:49	TO	TAL TAM
Total/NA	Prep	351.2			130027	10/05/12 15:30	TO	TAL TAM
Total/NA	Analysis	351.2		1	130090	10/08/12 14:45	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	130109	10/09/12 08:37	RWF	TAL TAM

Laboratory References:

- = Sanders Laboratories Inc., 1050 Endeavor Ct., Nokomis, FL 34275
- TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058
- TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994
- TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427



Certification Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAC	4	E84282	06-30-13
Georgia	State Program	4	905	11-30-12
USDA	Federal		P330-11-00177	04-20-14

Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-13
California	NELAC	9	4224CA	03-31-13
Connecticut	State Program	1	PH-0688	09-30-14
Florida	NELAC	4	E871008	06-30-13
Illinois	NELAC	5	002602	06-30-13
Kansas	NELAC	7	E-10350	01-31-13
L-A-B	DoD ELAP		L2314	02-24-13
Louisiana	NELAC	6	04041	06-30-13
New Hampshire	NELAC	1	203011	04-04-13
New Jersey	NELAC	2	PA005	06-30-13
New York	NELAC	2	11182	04-01-13
North Carolina DENR	State Program	4	434	12-31-12
Pennsylvania	NELAC	3	02-00416	04-30-13
South Carolina	State Program	4	89014	04-30-13
USDA	Federal		P-Soil-01	04-16-15
USDA	Federal		P330-10-00139	04-28-13
Utah	NELAC	8	STLP	04-30-13
Virginia	NELAC	3	460189	09-14-13
West Virginia DEP	State Program	3	142	01-31-13
Wisconsin	State Program	5	998027800	08-31-13

Laboratory: TestAmerica Tallahassee

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAC	4	E81005	06-30-13
Louisiana	NELAC	6	30663	06-30-13
New Jersey	NELAC	2	FL012	06-30-13
Texas	NELAC	6	T104704459-11-2	03-31-13
USDA	Federal		P330-08-00158	08-05-14

Method Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL PIT
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL TAM
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL TAM
365.1	Phosphorus, Total	EPA	TAL TAL
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL TAM
Total Nitrogen	Nitrogen, Total	EPA	TAL TAM
Enterococcus and Fecal Coliform	Microbiology	NONE	

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

= Sanders Laboratories Inc., 1050 Endeavor Ct., Nokomis, FL 34275

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Sample Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-50294-1	7B	Water	09/26/12 07:30	09/27/12 08:40
660-50294-2	8B	Water	09/26/12 08:00	09/27/12 08:40
660-50294-3	9B	Water	09/26/12 08:30	09/27/12 08:40
660-50294-4	10B	Water	09/26/12 09:00	09/27/12 08:40
660-50294-5	11B	Water	09/26/12 09:30	09/27/12 08:40
660-50294-6	11 Pump	Water	09/26/12 09:45	09/27/12 08:40
660-50294-7	CP	Water	09/26/12 10:45	09/27/12 08:40
660-50294-8	14B	Water	09/26/12 11:00	09/27/12 08:40
660-50294-9	14 Pump	Water	09/26/12 11:15	09/27/12 08:40
660-50294-10	GD3	Water	09/26/12 11:45	09/27/12 08:40
660-50294-11	Reuse 2	Water	09/26/12 12:30	09/27/12 08:40
660-50294-12	24B	Water	09/26/12 12:45	09/27/12 08:40
660-50294-13	4th Ave 3	Water	09/26/12 13:00	09/27/12 08:40





Laboratory Test Report

Lab Project #: F1209343

Page 1 of 11

All subsequent pages are identified by: F1209343. These pages may include, but are not limited to: Analytical Data, Chains of Custodys, Subcontracted Data and Case Narratives.

Questions regarding this report should be directed to your **Laboratory Contact**.

Client: Test America Tampa

Attn: Nancy Robertson
6712 Benjamin Rd Suite 10
Tampa, FL 33634
Phone: 813-885-7427
Fax:
E-mail:
Project Name: MACTEC

QUALIFIER DEFINITIONS

- B: Results based upon colony counts outside the acceptable range.
- I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.
- J: Estimated Value.
- J7: Excessive amounts of Sodium Sulfito used to dechlorinate the sample due to high levels of chlorine present.
- K: Off scale low, actual value is known to be less than the value given.
- L: Off scale high, actual value is known to be greater than the value given.
- Q: Sample held beyond acceptable holding time.
- U: The compound was analyzed for, but not detected.
- V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.
- Y: The laboratory analysis was from an improperly preserved sample.
- Z: Too many colonies were present for accurate counting.
HACH results may not meet NELAC standards.

A statement of estimated uncertainty of results is available upon request.

Analytical results provided relate only to the samples received for this project.

Test results meet all the requirements of the NELAC standards, unless otherwise noted.

Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.

Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Laboratory PQL's are available upon request.

Reports are archived for a minimum of 5 years. Copies of reports which are less than 1 year old are available for a fee of \$25.00 per report. Reports older than 1 year are available for a fee of \$50.00 per report. Copies will be provided within 1 week of the time of the request.

Approved by: _____ **Comments:**

Radica Koutselas/QA Officer
Jeff Walsh/Project Manager

Nokomis Lab ~ 1050 Endeavor Ct. ~ Nokomis, FL 34275-3623 ~ Phone: 941-488-8103 ~ Fax: 941-484-6774 ~ DOH Certification # E84380
Fort Myers Lab ~ 10090 Bavaria Road ~ Fort Myers, FL 33913 ~ Phone: 239-590-0337 ~ Fax: 239-590-0536 ~ DOH Certification # E85457

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Page: Page 1 of 5

Client Project: MACTEC

Lab Project: F1209343

Report Date: 10/03/12

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-01	1A3	Surface Water	GRAB	9/25/12 13:05	9/25/12 9:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	152		4	4	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF	673	B	9	9	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-02	1B	Surface Water	GRAB	9/25/12 13:05	9/25/12 9:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	100		100	100	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF	231	B	3	3	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-03	2B	Surface Water	GRAB	9/25/12 13:05	9/25/12 10:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	961		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF	1840	B	9	9	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-04	3B	Surface Water	GRAB	9/25/12 13:05	9/25/12 11:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	47		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF	259	B	2	2	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-05	5B	Surface Water	GRAB	9/25/12 13:05	9/25/12 11:15

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	7		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF	310		10	10	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-06	15B	Surface Water	GRAB	9/25/12 13:05	9/25/12 11:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	17		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457

Nokomis Lab ~ 1050 Endeavor Ct. ~ Nokomis, FL 34275-3623 ~ Phone: 941-488-8103 ~ Fax: 941-484-6774 ~ DOH Certification # E84380
 Fort Myers Lab ~ 10090 Bavaria Road ~ Fort Myers, FL 33913 ~ Phone: 239-590-0337 ~ Fax: 239-590-0536 ~ DOH Certification # E85457

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Page: Page 2 of 5

Client Project: MACTEC

Lab Project: F1209343

Report Date: 10/03/12

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-06	15B	Surface Water	GRAB	9/25/12 13:05	9/25/12 11:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Fecal Coliform, MF	230		10	10	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-07	16B	Surface Water	GRAB	9/25/12 13:05	9/25/12 11:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	39		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF	490		10	10	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-08	19B	Surface Water	GRAB	9/25/12 13:05	9/25/12 12:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	27		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF	410		10	10	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-09	6B	Surface Water	GRAB	9/25/12 15:50	9/25/12 12:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	101		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF	5200		100	100	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-10	20B	Surface Water	GRAB	9/25/12 15:50	9/25/12 13:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	2420		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF	4000		100	100	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-11	21B	Surface Water	GRAB	9/25/12 15:50	9/25/12 13:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	24		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF	492		1	1	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
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SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Page: Page 3 of 5

Client Project: MACTEC

Lab Project: F1209343

Report Date: 10/03/12

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-12	22A3	Surface Water	GRAB	9/25/12 15:50	9/25/12 14:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	162		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF	2450	B	9	9	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-13	22B	Surface Water	GRAB	9/25/12 15:50	9/25/12 14:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	378		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF	2340	B	9	9	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-14	PW PUMP	Surface Water	GRAB	9/25/12 15:50	9/25/12 14:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	516		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF	4200		100	100	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-15	REUSE 1	Surface Water	GRAB	9/25/12 15:50	9/25/12 15:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	1	U	1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF	2	U	2	2	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-16	7B	Surface Water	GRAB	9/26/12 11:15	9/26/12 7:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	27		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	LV	E85457
Fecal Coliform, MF	15	B	2	2	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-17	8B	Surface Water	GRAB	9/26/12 11:15	9/26/12 8:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	51		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	LV	E85457
Fecal Coliform, MF	162	B	2	2	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
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SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Page: Page 4 of 5

Client Project: MACTEC

Lab Project: F1209343

Report Date: 10/03/12

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-18	9B	Surface Water	GRAB	9/26/12 11:15	9/26/12 8:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	49		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	LV	E85457
Fecal Coliform, MF	66		2	2	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-19	10B	Surface Water	GRAB	9/26/12 11:15	9/26/12 9:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	186		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	LV	E85457
Fecal Coliform, MF	374	B	2	2	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-20	11B	Surface Water	GRAB	9/26/12 11:15	9/26/12 9:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	194		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	LV	E85457
Fecal Coliform, MF	489	B	2	2	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-21	11 PUMP	Surface Water	GRAB	9/26/12 11:15	9/26/12 9:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	127		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	LV	E85457
Fecal Coliform, MF	4700		100	100	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-22	CP	Surface Water	GRAB	9/26/12 15:30	9/26/12 10:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	2420		1	1	MPN/100ml	Enterolert	FB121003011	9/26/12 15:40	LV	E85457
Fecal Coliform, MF	2300		100	100	CFU/100ml	SM9222D	FB121003020	9/26/12 15:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-23	14 B	Surface Water	GRAB	9/26/12 15:30	9/26/12 11:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	142		1	1	MPN/100ml	Enterolert	FB121003011	9/26/12 15:40	LV	E85457
Fecal Coliform, MF	2	U	2	2	CFU/100ml	SM9222D	FB121003020	9/26/12 15:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
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SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Page: Page 5 of 5

Client Project: MACTEC

Lab Project: F1209343

Report Date: 10/03/12

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-24	14 PUMP	Surface Water	GRAB	9/26/12 15:30	9/26/12 11:15

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	333		1	1	MPN/100ml	Enterolert	FB121003011	9/26/12 15:40	LV	E85457
Fecal Coliform, MF	220		10	10	CFU/100ml	SM9222D	FB121003020	9/26/12 15:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-25	GD 3	Surface Water	GRAB	9/26/12 15:30	9/26/12 11:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	28		1	1	MPN/100ml	Enterolert	FB121003011	9/26/12 15:40	LV	E85457
Fecal Coliform, MF	84		2	2	CFU/100ml	SM9222D	FB121003020	9/26/12 15:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-26	REVSE 2	Surface Water	GRAB	9/26/12 15:30	9/26/12 12:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	1	U	1	1	MPN/100ml	Enterolert	FB121003011	9/26/12 15:40	LV	E85457
Fecal Coliform, MF	2	U	2	2	CFU/100ml	SM9222D	FB121003020	9/26/12 15:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-27	24B	Surface Water	GRAB	9/26/12 15:30	9/26/12 12:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	42		1	1	MPN/100ml	Enterolert	FB121003011	9/26/12 15:40	LV	E85457
Fecal Coliform, MF	3200		100	100	CFU/100ml	SM9222D	FB121003020	9/26/12 15:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-28	4TH AVE 3	Surface Water	GRAB	9/26/12 15:30	9/26/12 13:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	107		1	1	MPN/100ml	Enterolert	FB121003011	9/26/12 15:40	LV	E85457
Fecal Coliform, MF	508	B	2	2	CFU/100ml	SM9222D	FB121003020	9/26/12 15:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-29	26 B	Surface Water	GRAB	9/27/12 11:20	9/27/12 7:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	2		1	1	MPN/100ml	Enterolert	FB121003012	9/27/12 12:30	LV	E85457
Fecal Coliform, MF	890	B	9	9	CFU/100ml	SM9222D	FB121003024	9/27/12 12:27	LV/SL	E85457

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CHAIN-OF-CUSTODY RECORD

PROJECT # I1201343

Page 1 of 1

11/9/2012

Client Test America (for AMEC)

Address 1 Tampa

Phone _____ Fax _____

Report To: Nancy Robertson
 Bill To: Test America
 P.O. # _____

Preservative: HCl = H, HNO₃ = N, Na₂SO₃ = ST,
 H₂SO₄ = S, NaOH = SH, NH₄Cl = NH

Project Name: City Nappes Stormwater
 Project Location: Nappes FL
 Customer Type: For AMEC
 Kit # _____
 REQUESTED DUE DATE: 10/18/12

Sampled By (PRINT) Tom Bates (AMEC)

Sampler Signature [Signature]

Matrix	SAMPLE DESCRIPTION	Sample			pH	ICE	PRESERVATIVES	ANALYSES REQUEST	ENTERO TECAL	Sample ID #		
		DATE	TIME	TYPE								
	1A3	9/25/12	930	G						1A		
	1B		945							2A		
	2B		1030							3A		
	3B		1100							4A		
	5B		1115							5A		
	15B		1130							6A		
	16B		1145							7A		
	19B		1200							8A		
RELINQUISHED BY / AFFILIATION	Tom Bates / AMEC		DATE	9/25/12	TIME	1305	ACCEPTED BY / AFFILIATION	[Signature]	DATE	9/28/12	TIME	1305
OKAY TO RUN AS IS...												
CLIENT INITIAL:												
SAMPLES ON ICE												
Yes No												
COMMENTS:	S.V.											

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CHAIN-OF-CUSTODY RECORD

PROJECT # **F1209343**

Page _____ of _____

11/9/2012

Client: Test America

Address: _____

Phone: _____ Fax: _____

Report To: Alamy Robertson
 Bill To: Test America

P.O. # _____

Preservative: HCl = H, HNO₃ = N, Na₂S₂O₃ = ST,
 H₂SO₄ = S, NaOH = SH, NH₄Cl = NH

Project Name: Naples Sommette
 Project Location: Naples, FL
 Customer Type: _____
 Kit # _____
 REQUESTED DUE DATE: 10/8/12

Sampled By (PRINT)

Sampler Signature

Matrix

Sample DATE TIME TYPE

PH CE

PRESERVATIVES ANALYSES REQUEST

Sample ID #

sw CB 20B 9/25 1245 Grab 1300 1330 1400 1430 1445 1500 9A 10A 11A 12A 13A 14A 15A

21B 1330 1400 1430 1445 1500

22A3 1400 1430 1445 1500

22B PW-Pump 1430 1445 1500

Reuse 1 1500

RELINQUISHED BY / AFFILIATION: Sam Arden / AMEC DATE TIME: 9/25/12 1530 ACCEPTED BY / AFFILIATION: [Signature] DATE TIME: 9/25/12 1530

OKAY TO RUN AS IS... CLIENT INITIAL: _____ SAMPLES ON/ICE Yes/No

COMMENTS: 944

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CHAIN-OF-CUSTODY RECORD

PROJECT # **F1209343**

Sanders Laboratories Inc.
Environmental Testing Services

MARY ROBERTSON

Page 1 of 1

11/9/2012

Client TEST AMERICA (FOR AMEC)

Report To: TEST AMERICA
Bill To: SAME

Project Name: City of Naples Storm Water
Project Location: Naples FL

Address 7844 PA

P.O. # _____

Customer Type: _____

Phone 813-885-7427 Fax _____

Preservative: HCl = H, HNO₃ = N, Na₂S₂O₃ = ST, H₂SO₄ = S, NaOH = SH, NH₄Cl = NH

Kit # _____
REQUESTED DUE DATE: 10/8/12

Sampled By (PRINT) TOM BATES (AMEC)

Sampler Signature [Signature]

Sample

PRESERVATIVES

ANALYSES REQUEST

**ENTERO
FECAL**

Sample ID #

Matrix	SAMPLE DESCRIPTION	DATE	TIME	TYPE	pH	ICE	ENTERO	FECAL	Sample ID #
	7B	9/26/12	730	G			✓	✓	16A
	8B		800				✓	✓	17A
	9B		830				✓	✓	18A
	10B		900				✓	✓	19A
	11B		930				✓	✓	20A
	11 PUMP		945				✓	✓	21A

RELINQUISHED BY / AFFILIATION: T. Bates AMEC DATE: 9/26/12 TIME: 11:30

ACCEPTED BY / AFFILIATION: [Signature] DATE: 9/26/12 TIME: 11:15

CLIENT INITIAL: [Signature]

OKAY TO RUN AS IS... Yes

SAMPLES ONNICE Yes

COMMENTS:



CHAIN-OF-CUSTODY RECORD

PROJECT # F12009343

Page _____ of _____

11/9/2012

Client TestAmerica
 Address _____
 Phone _____ Fax _____

Report To: Wally Robertson
 Bill To: TestAmerica
 P.O. # _____
 Preservative: HCl = H, HNO₃ = N, Na₂SO₃ = ST,
 H₂SO₄ = S, NaOH = SH, NH₄Cl = NH

Project Name: _____
 Project Location: _____
 Customer Type: _____
 Kit # _____
 REQUESTED DUE DATE: 10/8/12

Sampled By (PRINT) Sam Arda

Sampler Signature [Signature]

Matrix	SAMPLE DESCRIPTION	Sample			PRESERVATIVES		ANALYSES REQUEST		Sample ID #
		DATE	TIME	TYPE	H	OH			
SW	CP	9/26	1045	500					20A
	14B	9/26	1100						23A
	14-Pump		1115						24A
	GDS		1145						25A
	Reuse 2		1230						26A
	24B		1245						27A
	44 Ave 3		1300						28A

Bottle Lot #	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	<u>Sam Arda / AMEC</u>	<u>9/26</u>	<u>1530</u>	<u>[Signature]</u>	<u>9/26</u>	<u>1530</u>

COMMENTS:

OKAY TO RUN AS IS...

CLIENT INITIAL:

SAMPLES ON ICE Yes No

*Enterovirus
Fecal Coliform*

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica West Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

TestAmerica Job ID: G2J010411
Client Project/Site: 660-50294
Client Project Description: 660-50294

For:
TestAmerica Tampa
6712 Benjamin Road STE 100
Tampa, FL 33634

Attn: Nancy Robertson



Authorized for release by:
11/8/2012 8:21:24 AM

Jeremy Sadler
Project Manager
jeremy.sadler@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: TestAmerica Tampa
Project/Site: 660-50294

TestAmerica Job ID: G2J010411

Qualifiers

HPLC

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
RER	Relative error ratio
DER	Duplicate error ratio (normalized absolute difference)
DLC	Decision level concentration
RL	Reporting Limit or Requested Limit (Radiochemistry only)

Case Narrative

TestAmerica West Sacramento Project Number G2J010411

WATER, 1694, Caffeine

Samples: 1, 2, 5

The above samples were extracted at a 50mL sample size due to physical sample properties observed during the extraction process. Base RL's for these samples were lowered in an effort to minimize the effect on the final RL of these samples.

There were no other anomalies associated with this project.



Detection Summary

Client: TestAmerica Tampa
Project/Site: 660-50294

TestAmerica Job ID: G2J010411

Client Sample ID: 11 PUMP (660-50294-6)

Lab Sample ID: G2J010411001

No Detections

Client Sample ID: CP (660-50294-7)

Lab Sample ID: G2J010411002

No Detections

Client Sample ID: GD3 (360-50294-10)

Lab Sample ID: G2J010411003

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Caffeine	16	I	51	13	ng/L	1.02		1694	Total

Client Sample ID: REUSE 2 (360-50294-11)

Lab Sample ID: G2J010411004

No Detections

Client Sample ID: 4TH AVE 3 (360-50294-13)

Lab Sample ID: G2J010411005

No Detections

Client Sample Results

Client: TestAmerica Tampa
Project/Site: 660-50294

TestAmerica Job ID: G2J010411

Client Sample ID: 11 PUMP (660-50294-6)

Lab Sample ID: G2J010411001

Date Collected: 09/26/12 09:45

Matrix: Water

Date Received: 09/28/12 09:00

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caffeine	ND		300	260	ng/L		10/02/12 14:12	10/09/12 07:59	20
Surrogate	%Recovery	Qualifier	Limits						
13C3-Caffeine	45		25 - 150						
							Prepared	Analyzed	Dil Fac
							10/02/12 14:12	10/09/12 07:59	20

Client Sample ID: CP (660-50294-7)

Lab Sample ID: G2J010411002

Date Collected: 09/26/12 10:45

Matrix: Water

Date Received: 09/28/12 09:00

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caffeine	ND		300	260	ng/L		10/02/12 14:12	10/09/12 08:30	20
Surrogate	%Recovery	Qualifier	Limits						
13C3-Caffeine	72		25 - 150						
							Prepared	Analyzed	Dil Fac
							10/02/12 14:12	10/09/12 08:30	20

Client Sample ID: GD3 (360-50294-10)

Lab Sample ID: G2J010411003

Date Collected: 09/26/12 11:45

Matrix: Water

Date Received: 09/28/12 09:00

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caffeine	16	I	51	13	ng/L		10/02/12 14:12	10/09/12 09:01	1.02
Surrogate	%Recovery	Qualifier	Limits						
13C3-Caffeine	54		25 - 150						
							Prepared	Analyzed	Dil Fac
							10/02/12 14:12	10/09/12 09:01	1.02

Client Sample ID: REUSE 2 (360-50294-11)

Lab Sample ID: G2J010411004

Date Collected: 09/26/12 12:30

Matrix: Water

Date Received: 09/28/12 09:00

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caffeine	ND		51	13	ng/L		10/02/12 14:12	10/09/12 09:31	1.02
Surrogate	%Recovery	Qualifier	Limits						
13C3-Caffeine	82		25 - 150						
							Prepared	Analyzed	Dil Fac
							10/02/12 14:12	10/09/12 09:31	1.02

Client Sample ID: 4TH AVE 3 (360-50294-13)

Lab Sample ID: G2J010411005

Date Collected: 09/26/12 13:00

Matrix: Water

Date Received: 09/28/12 09:00

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caffeine	ND		300	260	ng/L		10/02/12 14:12	10/09/12 10:02	20
Surrogate	%Recovery	Qualifier	Limits						
13C3-Caffeine	66		25 - 150						
							Prepared	Analyzed	Dil Fac
							10/02/12 14:12	10/09/12 10:02	20

Surrogate Summary

Client: TestAmerica Tampa
Project/Site: 660-50294

TestAmerica Job ID: G2J010411

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Matrix: Water

Prep Type: Total

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	¹³ C3-Caffein (25-150)	
G2J010411001	11 PUMP (660-50294-6)	45	
G2J010411002	CP (660-50294-7)	72	
G2J010411003	GD3 (360-50294-10)	54	
G2J010411004	REUSE 2 (360-50294-11)	82	
G2J010411005	4TH AVE 3 (360-50294-13)	66	
G2J020000093B	Method Blank	37	
G2J020000093C	Lab Control Sample	32	

Surrogate Legend
¹³C3-Caffeine = 13C3-Caffeine

QC Sample Results

Client: TestAmerica Tampa
 Project/Site: 660-50294

TestAmerica Job ID: G2J010411

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694)

Lab Sample ID: G2J02000093B
Matrix: Water
Analysis Batch: 2276093

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 2276093_P

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Caffeine	ND		15	13	ng/L		10/02/12 14:12	10/09/12 05:57	1
Surrogate	MB	MB	Limits			D	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
13C3-Caffeine	37		25 - 150				10/02/12 14:12	10/09/12 05:57	1

Lab Sample ID: G2J02000093C
Matrix: Water
Analysis Batch: 2276093

Client Sample ID: Lab Control Sample
Prep Type: Total
Prep Batch: 2276093_P

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Caffeine	100	101		ng/L		101	60 - 140	
Surrogate	LCS	LCS	Limits			D	%Rec	Limits
	%Recovery	Qualifier						
13C3-Caffeine	32		25 - 150					



QC Association Summary

Client: TestAmerica Tampa
Project/Site: 660-50294

TestAmerica Job ID: G2J010411

HPLC

Analysis Batch: 2276093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G2J010411001	11 PUMP (660-50294-6)	Total	Water	1694	
G2J010411002	CP (660-50294-7)	Total	Water	1694	
G2J010411003	GD3 (360-50294-10)	Total	Water	1694	
G2J010411004	REUSE 2 (360-50294-11)	Total	Water	1694	
G2J010411005	4TH AVE 3 (360-50294-13)	Total	Water	1694	
G2J020000093B	Method Blank	Total	Water	1694	
G2J020000093C	Lab Control Sample	Total	Water	1694	

Prep Batch: 2276093_P

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
G2J010411001	11 PUMP (660-50294-6)	Total	Water	EXTRACTION, SOLID PHASE	
G2J010411002	CP (660-50294-7)	Total	Water	EXTRACTION, SOLID PHASE	
G2J010411003	GD3 (360-50294-10)	Total	Water	EXTRACTION, SOLID PHASE	
G2J010411004	REUSE 2 (360-50294-11)	Total	Water	EXTRACTION, SOLID PHASE	
G2J010411005	4TH AVE 3 (360-50294-13)	Total	Water	EXTRACTION, SOLID PHASE	
G2J020000093B	Method Blank	Total	Water	EXTRACTION, SOLID PHASE	
G2J020000093C	Lab Control Sample	Total	Water	EXTRACTION, SOLID PHASE	



Lab Chronicle

Client: TestAmerica Tampa
Project/Site: 660-50294

TestAmerica Job ID: G2J010411

Client Sample ID: 11 PUMP (660-50294-6)

Lab Sample ID: G2J010411001

Date Collected: 09/26/12 09:45

Matrix: Water

Date Received: 09/28/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EXTRACTION, SOLID			2276093_P	10/02/12 14:12	JR	TAL WSC
		PHASE						
Total	Analysis	1694		20	2276093	10/09/12 07:59	NS	TAL WSC

Client Sample ID: CP (660-50294-7)

Lab Sample ID: G2J010411002

Date Collected: 09/26/12 10:45

Matrix: Water

Date Received: 09/28/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EXTRACTION, SOLID			2276093_P	10/02/12 14:12	JR	TAL WSC
		PHASE						
Total	Analysis	1694		20	2276093	10/09/12 08:30	NS	TAL WSC

Client Sample ID: GD3 (360-50294-10)

Lab Sample ID: G2J010411003

Date Collected: 09/26/12 11:45

Matrix: Water

Date Received: 09/28/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EXTRACTION, SOLID			2276093_P	10/02/12 14:12	JR	TAL WSC
		PHASE						
Total	Analysis	1694		1.02	2276093	10/09/12 09:01	NS	TAL WSC

Client Sample ID: REUSE 2 (360-50294-11)

Lab Sample ID: G2J010411004

Date Collected: 09/26/12 12:30

Matrix: Water

Date Received: 09/28/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EXTRACTION, SOLID			2276093_P	10/02/12 14:12	JR	TAL WSC
		PHASE						
Total	Analysis	1694		1.02	2276093	10/09/12 09:31	NS	TAL WSC

Client Sample ID: 4TH AVE 3 (360-50294-13)

Lab Sample ID: G2J010411005

Date Collected: 09/26/12 13:00

Matrix: Water

Date Received: 09/28/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total	Prep	EXTRACTION, SOLID			2276093_P	10/02/12 14:12	JR	TAL WSC
		PHASE						
Total	Analysis	1694		20	2276093	10/09/12 10:02	NS	TAL WSC

Laboratory References:

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

Client: TestAmerica Tampa
Project/Site: 660-50294

TestAmerica Job ID: G2J010411

Laboratory: TestAmerica West Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-14
Alaska (UST)	State Program	10	UST-055	12-18-12
Arizona	State Program	9	AZ0708	08-11-13
Arkansas DEQ	State Program	6	88-0691	06-17-13
California	NELAC	9	1119CA	01-31-13
Colorado	State Program	8	N/A	08-31-13
Connecticut	State Program	1	PH-0691	06-30-13
Florida	NELAC	4	E87570	06-30-13
Guam	State Program	9	N/A	08-31-13
Hawaii	State Program	9	N/A	01-31-13
Illinois	NELAC	5	200060	03-17-13
Kansas	NELAC	7	E-10375	10-31-13
Louisiana	NELAC	6	30612	06-30-13
Michigan	State Program	5	9947	01-31-13
Nevada	State Program	9	CA44	07-31-13
New Jersey	NELAC	2	CA005	06-30-13
New York	NELAC	2	11666	04-01-13
Northern Mariana Islands	State Program	9	MP0007	01-31-13
Oregon	NELAC	10	CA200005	03-28-13
Pennsylvania	NELAC	3	68-01272	03-31-13
South Carolina	State Program	4	87014	06-30-13
Texas	NELAC	6	T104704399-08-TX	05-31-13
US Fish & Wildlife	Federal		LE148388-0	02-28-13
USDA	Federal		P330-11-00436	12-30-14
Utah	NELAC	8	QUAN1	01-31-13
Washington	State Program	10	C581	05-05-13
West Virginia	State Program	3	9930C	12-31-12
West Virginia DEP	State Program	3	334	07-31-13
Wyoming	State Program	8	8TMS-Q	01-31-13

Method Summary

Client: TestAmerica Tampa
Project/Site: 660-50294

TestAmerica Job ID: G2J010411

Method	Method Description	Protocol	Laboratory
1694	Pharmaceuticals, HPLC/MS/MS (1694)	CFR136A	TAL WSC

Protocol References:

CFR136A = CFR136A

Laboratory References:

TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Sample Summary

Client: TestAmerica Tampa
Project/Site: 660-50294

TestAmerica Job ID: G2J010411

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
G2J010411001	11 PUMP (660-50294-6)	Water	09/26/12 09:45	09/28/12 09:00
G2J010411002	CP (660-50294-7)	Water	09/26/12 10:45	09/28/12 09:00
G2J010411003	GD3 (360-50294-10)	Water	09/26/12 11:45	09/28/12 09:00
G2J010411004	REUSE 2 (360-50294-11)	Water	09/26/12 12:30	09/28/12 09:00
G2J010411005	4TH AVE 3 (360-50294-13)	Water	09/26/12 13:00	09/28/12 09:00



TestAmerica Tampa
 6712 Benjamin Road Suite 100
 Tampa, FL 33634
 Phone (813) 885-7427 Fax (813) 885-7049

660-50294

Chain of Custody Record

Page 1
 of 2



Client Information

Client Contact: Mr. Tom Bates
 Phone: 239-564-8483
 Email: tbates@tmacc.com

Company: AMEC Environment & Infrastructure, Inc.
 Address: 222 Industrial Blvd, Suite 155
 City: Naples, FL 34104

Due Date Requested: STD.
 TAT Requested (days):

PO #: C012200389
 MTO #: 6063-12-0207
 Project #: 66003057
 SSONW#:

Lab POC: Robertson, Nancy
 E-Mail: nancy.robertson@testamericainc.com
 Carrier Tracking No(s):

COG No: 660-43302-14207.3
 Page: Page 3 of 4
 Job #:

Analysis Requested

Field Filtered Sample (Yes or No)	Part of the MS/MS (Yes or No)	200.8 - Copper	366.1 - Phosphorus	361.2, 363.2	2540D - Total Suspended Solids	SUBCONTRACT - Enterococcus and Fecal Coliform	SUBCONTRACT - CAFFEINE	Other:

Special Instructions/Note:

Preservation Codes:
 A - HCl, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2OAS, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Decahydrate, U - Acetone, V - MCAA, W - ph 4.5, Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil)	Field Filtered Sample (Yes or No)	Part of the MS/MS (Yes or No)	200.8 - Copper	366.1 - Phosphorus	361.2, 363.2	2540D - Total Suspended Solids	SUBCONTRACT - Enterococcus and Fecal Coliform	SUBCONTRACT - CAFFEINE	Other:
7TB	9/26/12	730	G	Water			✓	✓	✓	✓			
8B		800		Water			✓	✓	✓	✓			
9B		830		Water			✓	✓	✓	✓			
10B		900		Water			✓	✓	✓	✓			
11B		930		Water			✓	✓	✓	✓			
11 PUMP		945		Water			✓	✓	✓	✓			
CP		1045		Water			✓	✓	✓	✓			
14B		1100		Water			✓	✓	✓	✓			
14 PUMP		1115		Water			✓	✓	✓	✓			
GD 3		1145		Water			✓	✓	✓	✓			
REUSE 2		1230		Water			✓	✓	✓	✓			

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/IOC Requirements:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Empty Kit Relinquished by: BE Bessie
 Date/Time: 9-17-12
 Date: 9-17-12
 Time: 1445
 Method of Shipment: EX

Relinquished by: NAD BATES to FedEx
 Date/Time: 9/26/12
 Date/Time: 1830
 Company: AMEC
 Received by: [Signature]
 Date/Time: 9/27/12 0840
 Company:

Relinquished by:
 Date/Time:
 Company:

Custody Seal Intact: A Yes A No
 Custody Seal No.:
 Cooler Temperature(s) °C and Other Remarks: 5.6, 7.6, 7.0°C (40.3)

TestAmerica Tampa
 6712 Benjamin Road Suite 100
 Tampa, FL 33634
 Phone (813) 885-7427 Fax (813) 885-7049

Chain of Custody Record

Page 2
 of 2

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information

Client Contact: Mr. Tom Bates
 Phone: [Blank]
 E-Mail: tom.bates@testamericainc.com

Company: AMEC Environment & Infrastructure, Inc.
 Address: 222 Industrial Blvd, Suite 155
 City: Naples
 State, Zip: FL, 34104

PO #: [Blank]
 Phone: 239-564-8483 (Tel)
 Email: tobates@testamericainc.com
 Project Name: City of Naples Stormwater
 Project #: 68003057
 SOW#: [Blank]

Lab POC: Robertson, Nancy
 E-Mail: nancy.robertson@testamericainc.com
 Carrier Tracking No(s): [Blank]

COC No: 68043302-142074
 Page: Page 4 of 4
 Job #:

Analysis Requested

Due Date Requested: [Blank]
 TAT Requested (days): [Blank]

Field Filtered Sample (Yes or No) [X] Yes [] No
 For All Methods (Yes or No) [X] Yes [] No

200.8 - Copper [X]
 366.1 - Phosphorus [X]
 361.2, 363.2 [X]
 2540D - Total Suspended Solids [X]
 SUBCONTRACT - Enterococcus and Fecal Coliform [X]
 SUBCONTRACT - CAFFEINE [X]

Preservation Codes:
 A - HCl M - Hexane
 B - NaOH N - None
 C - Zn Acetate O - As2O3
 D - Nitric Acid P - Na2O4
 E - NaHSO4 Q - Na2SO3
 F - MeOH R - Na2S2O3
 G - Amchlor S - H2SO4
 H - Ascorbic Acid T - TSP Dodecyl/dodecane
 I - Ice U - Acetone
 J - DI Water V - MCAA
 K - EDTA W - ph 4-5
 L - EDA Z - other (specify)
 Other: [Blank]

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=Tissue, Y=air)	Field Filtered Sample (Yes or No)	For All Methods (Yes or No)	200.8 - Copper	366.1 - Phosphorus	361.2, 363.2	2540D - Total Suspended Solids	SUBCONTRACT - Enterococcus and Fecal Coliform	SUBCONTRACT - CAFFEINE	Total Number of Containers	Special Instructions/Note:
24 TB 14TH AVE. 3	9/26/12	1245	G	Water	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	SEE PAGE 1
		1300	G	Water	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	
				Water	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	
				Water	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	
				Water	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	
				Water	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	
				Water	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	
				Water	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	[X]	

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify) [Blank]

Special Instructions/QC Requirements: [Blank]

Empty Kit Relinquished by: [Signature] Date: 9-17-12 Time: 1445 Method of Shipment: FX

Relinquished by: [Blank] Date/Time: [Blank] Company: [Blank]

Relinquished by: [Blank] Date/Time: [Blank] Company: [Blank]

Relinquished by: [Blank] Date/Time: [Blank] Company: [Blank]

Custody Seals Intact: Yes No Custody Seal No.: [Blank]

Cooler Temperature(s) To and Other Remarks: [Blank]

Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-50294-1

Login Number: 50294

List Number: 1

Creator: McNulty, Carol

List Source: TestAmerica Tampa

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	CP liter broken, took sample from other bottle
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-50294-1

Login Number: 50294

List Number: 1

Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

List Creation: 09/28/12 12:21 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-50294-1

Login Number: 50294

List Number: 1

Creator: Delp, Eric

List Source: TestAmerica Tallahassee

List Creation: 09/29/12 02:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Tampa
6712 Benjamin Road
Suite 100
Tampa, FL 33634
Tel: (813)885-7427

TestAmerica Job ID: 660-50305-1

Client Project/Site: City of Naples Stormwater 2012

For:

AMEC Environment & Infrastructure, Inc.
222 Industrial Blvd., Suite 155
Naples, Florida 34104

Attn: Mr. Tom Bates



Authorized for release by:
11/8/2012 4:10:51 PM

Nancy Robertson
Project Manager II
nancy.robertson@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-50305-1

Qualifiers

Metals

Qualifier	Qualifier Description
V	Indicates the analyte was detected in both the sample and the associated method blank.
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

General Chemistry

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
RER	Relative error ratio
DER	Duplicate error ratio (normalized absolute difference)
DLC	Decision level concentration
RL	Reporting Limit or Requested Limit (Radiochemistry only)

Case Narrative

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-50305-1

Job ID: 660-50305-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative
660-50305-1

Comments

No additional comments.

Receipt

The sample was received on 9/27/2012 3:30 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.0° C.

Metals

Method 200.8: The Method Blank for batch 51268 had an estimated result between the MDL and PQL for Copper. The sample result was greater than 10X the result in the Method Blank and therefore the data has been reported and flagged with V.

No other analytical or quality issues were noted.

General Chemistry

No other analytical or quality issues were noted.

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Detection Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-50305-1

Client Sample ID: 26B

Lab Sample ID: 660-50305-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	61	V	2.0	0.14	ug/L	1		200.8	Total
Nitrogen, Kjeldahl	0.76		0.20	0.050	mg/L	1		351.2	Recoverable Total/NA
Phosphorus	0.065		0.010	0.0044	mg/L	1		365.1	Total/NA
Total Suspended Solids	6.0		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	0.76		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA

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Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-50305-1

Client Sample ID: 26B

Lab Sample ID: 660-50305-1

Date Collected: 09/27/12 07:30

Matrix: Water

Date Received: 09/27/12 15:30

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	61	V	2.0	0.14	ug/L		10/02/12 09:27	10/09/12 02:10	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.76		0.20	0.050	mg/L		10/09/12 06:00	10/09/12 18:39	1
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 18:56	1
Phosphorus	0.065		0.010	0.0044	mg/L		10/01/12 11:33	10/01/12 16:25	1
Total Suspended Solids	6.0		1.0	1.0	mg/L			10/03/12 07:23	1
Nitrogen, Total	0.76		0.70	0.15	mg/L			10/10/12 09:35	1



QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-50305-1

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 180-50442/1-A

Matrix: Water

Analysis Batch: 51268

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 50442

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.557	I	2.0	0.14	ug/L		10/02/12 09:27	10/09/12 00:52	1

Lab Sample ID: LCS 180-50442/2-A

Matrix: Water

Analysis Batch: 51268

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 50442

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	250	241		ug/L		96	85 - 115

Lab Sample ID: LCSD 180-50442/3-A

Matrix: Water

Analysis Batch: 51268

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 50442

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	250	243		ug/L		97	85 - 115	1	20

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 660-130102/10-A

Matrix: Water

Analysis Batch: 130150

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 130102

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.050	U	0.20	0.050	mg/L		10/09/12 06:00	10/09/12 18:24	1

Lab Sample ID: LCS 660-130102/11-A

Matrix: Water

Analysis Batch: 130150

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 130102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	3.00	2.90		mg/L		97	90 - 110

Lab Sample ID: 660-50403-A-1-B MS

Matrix: Water

Analysis Batch: 130150

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 130102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	0.23		3.00	3.32		mg/L		103	90 - 110

Lab Sample ID: 660-50403-A-1-C MSD

Matrix: Water

Analysis Batch: 130150

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 130102

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Kjeldahl	0.23		3.00	3.19		mg/L		99	90 - 110	4	30

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-50305-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 660-130017/3

Matrix: Water

Analysis Batch: 130017

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.10	U	0.50	0.10	mg/L			10/04/12 18:46	1

Lab Sample ID: LCS 660-130017/4

Matrix: Water

Analysis Batch: 130017

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	1.00	1.05		mg/L		105	90 - 110

Lab Sample ID: 660-50294-C-13 MS

Matrix: Water

Analysis Batch: 130017

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.10	U	1.00	0.969		mg/L		97	90 - 110

Lab Sample ID: 660-50294-C-13 MSD

Matrix: Water

Analysis Batch: 130017

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.10	U	1.00	0.981		mg/L		98	90 - 110	1	30

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 640-96242/3-A

Matrix: Water

Analysis Batch: 96272

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 96242

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.0044	U	0.010	0.0044	mg/L		10/01/12 11:33	10/01/12 15:48	1

Lab Sample ID: LCS 640-96242/5-A

Matrix: Water

Analysis Batch: 96272

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 96242

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.100	0.0998		mg/L		100	90 - 110

Lab Sample ID: LCSD 640-96242/6-A

Matrix: Water

Analysis Batch: 96272

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 96242

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus	0.100	0.0929		mg/L		93	90 - 110	7	30

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-50305-1

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: 180-14858-F-3-A MS
Matrix: Water
Analysis Batch: 96272

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 96242

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.018		0.100	0.114		mg/L		96	90 - 110

Lab Sample ID: 180-14858-F-3-B MSD
Matrix: Water
Analysis Batch: 96272

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 96242

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus	0.018		0.100	0.114		mg/L		96	90 - 110	0	30

Lab Sample ID: 180-14858-G-3-G DU
Matrix: Water
Analysis Batch: 96272

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 96242

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Phosphorus	0.018		0.0175		mg/L		0.8	30

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 660-129857/1
Matrix: Water
Analysis Batch: 129857

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	1.0	U	1.0	1.0	mg/L			10/03/12 07:23	1

Lab Sample ID: LCS 660-129857/2
Matrix: Water
Analysis Batch: 129857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	100	94.4		mg/L		94	80 - 120

Lab Sample ID: 660-50294-D-13 DU
Matrix: Water
Analysis Batch: 129857

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	2.0		2.40		mg/L		18	20

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-50305-1

Metals

Prep Batch: 50442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50305-1	26B	Total Recoverable	Water	200.8	
LCS 180-50442/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 180-50442/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
MB 180-50442/1-A	Method Blank	Total Recoverable	Water	200.8	

Analysis Batch: 51268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50305-1	26B	Total Recoverable	Water	200.8	50442
LCS 180-50442/2-A	Lab Control Sample	Total Recoverable	Water	200.8	50442
LCSD 180-50442/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	50442
MB 180-50442/1-A	Method Blank	Total Recoverable	Water	200.8	50442

General Chemistry

Prep Batch: 96242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-14858-F-3-A MS	Matrix Spike	Total/NA	Water	365.2/365.3/365	
180-14858-F-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	365.2/365.3/365	
180-14858-G-3-G DU	Duplicate	Total/NA	Water	365.2/365.3/365	
660-50305-1	26B	Total/NA	Water	365.2/365.3/365	
LCS 640-96242/5-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
LCSD 640-96242/6-A	Lab Control Sample Dup	Total/NA	Water	365.2/365.3/365	
MB 640-96242/3-A	Method Blank	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 96272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-14858-F-3-A MS	Matrix Spike	Total/NA	Water	365.1	96242
180-14858-F-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	365.1	96242
180-14858-G-3-G DU	Duplicate	Total/NA	Water	365.1	96242
660-50305-1	26B	Total/NA	Water	365.1	96242
LCS 640-96242/5-A	Lab Control Sample	Total/NA	Water	365.1	96242
LCSD 640-96242/6-A	Lab Control Sample Dup	Total/NA	Water	365.1	96242
MB 640-96242/3-A	Method Blank	Total/NA	Water	365.1	96242

Analysis Batch: 129857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50294-D-13 DU	Duplicate	Total/NA	Water	SM 2540D	
660-50305-1	26B	Total/NA	Water	SM 2540D	
LCS 660-129857/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 660-129857/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 130017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50294-C-13 MS	Matrix Spike	Total/NA	Water	353.2	
660-50294-C-13 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	
660-50305-1	26B	Total/NA	Water	353.2	
LCS 660-130017/4	Lab Control Sample	Total/NA	Water	353.2	
MB 660-130017/3	Method Blank	Total/NA	Water	353.2	

Prep Batch: 130102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50305-1	26B	Total/NA	Water	351.2	

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-50305-1

General Chemistry (Continued)

Prep Batch: 130102 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50403-A-1-B MS	Matrix Spike	Total/NA	Water	351.2	
660-50403-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	
LCS 660-130102/11-A	Lab Control Sample	Total/NA	Water	351.2	
MB 660-130102/10-A	Method Blank	Total/NA	Water	351.2	

Analysis Batch: 130150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50305-1	26B	Total/NA	Water	351.2	130102
660-50403-A-1-B MS	Matrix Spike	Total/NA	Water	351.2	130102
660-50403-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	130102
LCS 660-130102/11-A	Lab Control Sample	Total/NA	Water	351.2	130102
MB 660-130102/10-A	Method Blank	Total/NA	Water	351.2	130102

Analysis Batch: 130173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-50305-1	26B	Total/NA	Water	Total Nitrogen	

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-50305-1

Client Sample ID: 26B

Lab Sample ID: 660-50305-1

Date Collected: 09/27/12 07:30

Matrix: Water

Date Received: 09/27/12 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50442	10/02/12 09:27	CH	TAL PIT
Total Recoverable	Analysis	200.8		1	51268	10/09/12 02:10	BR	TAL PIT
Total/NA	Prep	365.2/365.3/365			96242	10/01/12 11:33	AJN	TAL TAL
Total/NA	Analysis	365.1		1	96272	10/01/12 16:25	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	129857	10/03/12 07:23	TO	TAL TAM
Total/NA	Analysis	353.2		1	130017	10/04/12 18:56	TO	TAL TAM
Total/NA	Prep	351.2			130102	10/09/12 06:00	TO	TAL TAM
Total/NA	Analysis	351.2		1	130150	10/09/12 18:39	TO	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	130173	10/10/12 09:35	RWF	TAL TAM

Laboratory References:

- = Sanders Laboratories Inc., 1050 Endeavor Ct., Nokomis, FL 34275
- TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058
- TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994
- TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427



Certification Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-50305-1

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAC	4	E84282	06-30-13
Georgia	State Program	4	905	11-30-12
USDA	Federal		P330-11-00177	04-20-14

Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-13
California	NELAC	9	4224CA	03-31-13
Connecticut	State Program	1	PH-0688	09-30-14
Florida	NELAC	4	E871008	06-30-13
Illinois	NELAC	5	002602	06-30-13
Kansas	NELAC	7	E-10350	01-31-13
L-A-B	DoD ELAP		L2314	02-24-13
Louisiana	NELAC	6	04041	06-30-13
New Hampshire	NELAC	1	203011	04-04-13
New Jersey	NELAC	2	PA005	06-30-13
New York	NELAC	2	11182	04-01-13
North Carolina DENR	State Program	4	434	12-31-12
Pennsylvania	NELAC	3	02-00416	04-30-13
South Carolina	State Program	4	89014	04-30-13
USDA	Federal		P-Soil-01	04-16-15
USDA	Federal		P330-10-00139	04-28-13
Utah	NELAC	8	STLP	04-30-13
Virginia	NELAC	3	460189	09-14-13
West Virginia DEP	State Program	3	142	01-31-13
Wisconsin	State Program	5	998027800	08-31-13

Laboratory: TestAmerica Tallahassee

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAC	4	E81005	06-30-13
Louisiana	NELAC	6	30663	06-30-13
New Jersey	NELAC	2	FL012	06-30-13
Texas	NELAC	6	T104704459-11-2	03-31-13
USDA	Federal		P330-08-00158	08-05-14

Method Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-50305-1

Method	Method Description	Protocol	Laboratory
200.8	Metals (ICP/MS)	EPA	TAL PIT
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL TAM
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL TAM
365.1	Phosphorus, Total	EPA	TAL TAL
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL TAM
Total Nitrogen	Nitrogen, Total	EPA	TAL TAM
Enterococcus and Fecal Coliform	Microbiology	NONE	

Protocol References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

NONE = NONE

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

= Sanders Laboratories Inc., 1050 Endeavor Ct., Nokomis, FL 34275

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994

TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Sample Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-50305-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-50305-1	26B	Water	09/27/12 07:30	09/27/12 15:30

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Laboratory Test Report

Lab Project #: F1209343

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All subsequent pages are identified by: F1209343. These pages may include, but are not limited to: Analytical Data, Chains of Custodys, Subcontracted Data and Case Narratives.

Questions regarding this report should be directed to your **Laboratory Contact**:

Client: Test America Tampa

Attn: Nancy Robertson
6712 Benjamin Rd Suite 10
Tampa, FL 33634
Phone: 813-885-7427
Fax:
E-mail:
Project Name: MACTEC

QUALIFIER DEFINITIONS

- B: Results based upon colony counts outside the acceptable range.
 - I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.
 - J: Estimated Value.
 - J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.
 - K: Off scale low, actual value is known to be less than the value given.
 - L: Off scale high, actual value is known to be greater than the value given.
 - Q: Sample held beyond acceptable holding time.
 - U: The compound was analyzed for, but not detected.
 - V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.
 - Y: The laboratory analysis was from an improperly preserved sample.
 - Z: Too many colonies were present for accurate counting.
- HACH results may not meet NELAC standards.

A statement of estimated uncertainty of results is available upon request.

Analytical results provided relate only to the samples received for this project.

Test results meet all the requirements of the NELAC standards, unless otherwise noted.

Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.

Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Laboratory PQL's are available upon request.

Reports are archived for a minimum of 5 years. Copies of reports which are less than 1 year old are available for a fee of \$25.00 per report. Reports older than 1 year are available for a fee of \$50.00 per report. Copies will be provided within 1 week of the time of the request.

Approved by: _____ **Comments:**

Radica Koutselas/QA Officer
Jeff Walsh/Project Manager

Nokomis Lab ~ 1050 Endeavor Ct. ~ Nokomis, FL 34275-3623 ~ Phone: 941-488-8103 ~ Fax: 941-484-6774 ~ DOH Certification # E84380
Fort Myers Lab ~ 10090 Bavaria Road ~ Fort Myers, FL 33913 ~ Phone: 239-590-0337 ~ Fax: 239-590-0536 ~ DOH Certification # E85457

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Client Project: MACTEC

Page: Page 1 of 5

Lab Project: F1209343

Report Date: 10/03/12

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-01	1A3	Surface Water	GRAB	9/25/12 13:05	9/25/12 9:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	152		4	4	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF	673	B	9	9	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-02	1B	Surface Water	GRAB	9/25/12 13:05	9/25/12 9:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	100		100	100	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF	231	B	3	3	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-03	2B	Surface Water	GRAB	9/25/12 13:05	9/25/12 10:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	961		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF	1840	B	9	9	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-04	3B	Surface Water	GRAB	9/25/12 13:05	9/25/12 11:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	47		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF	259	B	2	2	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-05	5B	Surface Water	GRAB	9/25/12 13:05	9/25/12 11:15

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	7		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF	310		10	10	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-06	15B	Surface Water	GRAB	9/25/12 13:05	9/25/12 11:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	17		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457

Nokomis Lab ~ 1050 Endeavor Ct. ~ Nokomis, FL 34275-3623 ~ Phone: 941-488-8103 ~ Fax: 941-484-6774 ~ DOH Certification # E84380
 Fort Myers Lab ~ 10090 Bavaria Road ~ Fort Myers, FL 33913 ~ Phone: 239-590-0337 ~ Fax: 239-590-0536 ~ DOH Certification # E85457

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Page: Page 2 of 5

Client Project: MACTEC

Lab Project: F1209343

Report Date: 10/03/12

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-06	15B	Surface Water	GRAB	9/25/12 13:05	9/25/12 11:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Fecal Coliform, MF	230		10	10	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-07	16B	Surface Water	GRAB	9/25/12 13:05	9/25/12 11:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	39		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF	490		10	10	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-08	19B	Surface Water	GRAB	9/25/12 13:05	9/25/12 12:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	27		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF	410		10	10	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-09	6B	Surface Water	GRAB	9/25/12 15:50	9/25/12 12:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	101		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF	5200		100	100	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-10	20B	Surface Water	GRAB	9/25/12 15:50	9/25/12 13:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	2420		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF	4000		100	100	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-11	21B	Surface Water	GRAB	9/25/12 15:50	9/25/12 13:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	24		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF	492		1	1	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
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SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

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Client Project: MACTEC

Lab Project: F1209343

Report Date: 10/03/12

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-12	22A3	Surface Water	GRAB	9/25/12 15:50	9/25/12 14:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	162		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF	2450	B	9	9	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-13	22B	Surface Water	GRAB	9/25/12 15:50	9/25/12 14:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	378		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF	2340	B	9	9	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-14	PW PUMP	Surface Water	GRAB	9/25/12 15:50	9/25/12 14:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	516		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF	4200		100	100	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-15	REUSE 1	Surface Water	GRAB	9/25/12 15:50	9/25/12 15:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	1	U	1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF	2	U	2	2	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-16	7B	Surface Water	GRAB	9/26/12 11:15	9/26/12 7:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	27		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	LV	E85457
Fecal Coliform, MF	15	B	2	2	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-17	8B	Surface Water	GRAB	9/26/12 11:15	9/26/12 8:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	51		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	LV	E85457
Fecal Coliform, MF	162	B	2	2	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
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SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

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Client Project: MACTEC

Lab Project: F1209343

Report Date: 10/03/12

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-18	9B	Surface Water	GRAB	9/26/12 11:15	9/26/12 8:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	49		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	LV	E85457
Fecal Coliform, MF	66		2	2	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-19	10B	Surface Water	GRAB	9/26/12 11:15	9/26/12 9:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	186		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	LV	E85457
Fecal Coliform, MF	374	B	2	2	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-20	11B	Surface Water	GRAB	9/26/12 11:15	9/26/12 9:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	194		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	LV	E85457
Fecal Coliform, MF	489	B	2	2	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-21	11 PUMP	Surface Water	GRAB	9/26/12 11:15	9/26/12 9:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	127		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	LV	E85457
Fecal Coliform, MF	4700		100	100	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-22	CP	Surface Water	GRAB	9/26/12 15:30	9/26/12 10:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	2420		1	1	MPN/100ml	Enterolert	FB121003011	9/26/12 15:40	LV	E85457
Fecal Coliform, MF	2300		100	100	CFU/100ml	SM9222D	FB121003020	9/26/12 15:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-23	14 B	Surface Water	GRAB	9/26/12 15:30	9/26/12 11:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	142		1	1	MPN/100ml	Enterolert	FB121003011	9/26/12 15:40	LV	E85457
Fecal Coliform, MF	2	U	2	2	CFU/100ml	SM9222D	FB121003020	9/26/12 15:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
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Nokomis Lab ~ 1050 Endeavor Ct. ~ Nokomis, FL 34275-3623 ~ Phone: 941-488-8103 ~ Fax: 941-484-6774 ~ DOH Certification # E84380
 Fort Myers Lab ~ 10090 Bavaria Road ~ Fort Myers, FL 33913 ~ Phone: 239-590-0337 ~ Fax: 239-590-0536 ~ DOH Certification # E85457

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Page: Page 5 of 5

Client Project: MACTEC

Lab Project: F1209343

Report Date: 10/03/12

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-24	14 PUMP	Surface Water	GRAB	9/26/12 15:30	9/26/12 11:15

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	333		1	1	MPN/100ml	Enterolert	FB121003011	9/26/12 15:40	LV	E85457
Fecal Coliform, MF	220		10	10	CFU/100ml	SM9222D	FB121003020	9/26/12 15:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-25	GD 3	Surface Water	GRAB	9/26/12 15:30	9/26/12 11:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	28		1	1	MPN/100ml	Enterolert	FB121003011	9/26/12 15:40	LV	E85457
Fecal Coliform, MF	84		2	2	CFU/100ml	SM9222D	FB121003020	9/26/12 15:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-26	REVSE 2	Surface Water	GRAB	9/26/12 15:30	9/26/12 12:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	1	U	1	1	MPN/100ml	Enterolert	FB121003011	9/26/12 15:40	LV	E85457
Fecal Coliform, MF	2	U	2	2	CFU/100ml	SM9222D	FB121003020	9/26/12 15:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-27	24B	Surface Water	GRAB	9/26/12 15:30	9/26/12 12:45

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	42		1	1	MPN/100ml	Enterolert	FB121003011	9/26/12 15:40	LV	E85457
Fecal Coliform, MF	3200		100	100	CFU/100ml	SM9222D	FB121003020	9/26/12 15:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-28	4TH AVE 3	Surface Water	GRAB	9/26/12 15:30	9/26/12 13:00

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	107		1	1	MPN/100ml	Enterolert	FB121003011	9/26/12 15:40	LV	E85457
Fecal Coliform, MF	508	B	2	2	CFU/100ml	SM9222D	FB121003020	9/26/12 15:40	LV	E85457

Lab ID	Sample Description	Matrix	Sample Type	Received Date/Time	Sample Date/Time
F1209343-29	26 B	Surface Water	GRAB	9/27/12 11:20	9/27/12 7:30

Parameter	Result	Qual	MDL	PQL	Units	Method	Batch #	Analysis Date/Time	Analyst	Lab ID
Enterococcus, MPN	2		1	1	MPN/100ml	Enterolert	FB121003012	9/27/12 12:30	LV	E85457
Fecal Coliform, MF	890	B	9	9	CFU/100ml	SM9222D	FB121003024	9/27/12 12:27	LV/SL	E85457



CHAIN-OF-CUSTODY RECORD

PROJECT # F1208343

Page 1 of 1

11/8/2012

Client Test America (for AMEC)

Address 1 Tampa

Phone _____ Fax _____

Report To: Nancy Robertson

Bill To: Test America

P.O. # _____

Preservative: HCl = H, HNO₃ = N, Na₂SO₃ = ST, H₂SO₄ = S, NaOH = SH, NH₄Cl = NH

Project Name: City Nappes Stormwater

Project Location: Nappes FL

Customer Type: For AMEC

Kit # _____

REQUESTED DUE DATE: 10/18/12

Sampled By (PRINT) Tom Bates (AMEC)

Sampler Signature [Signature]

Matrix	SAMPLE DESCRIPTION	DATE	TIME	TYPE	PRESERVATIVES		ANALYSES REQUEST	ENTERO FECAL	Sample ID #
					H	ICE			
	1A3	9/25/12	930	G			✓		1A
	1B		945				✓		2A
	2B		1030				✓		3A
	3B		1100				✓		4A
	5B		1115				✓		5A
	15B		1130				✓		6A
	16B		1145				✓		7A
	19B		1200				✓		8A

RELINQUISHED BY / AFFILIATION: Tom Bates / AMEC DATE: 9/25/12 TIME: 1305

ACCEPTED BY / AFFILIATION: [Signature] DATE: 9/28/12 TIME: 1305

OKAY TO RUN AS IS: _____

CLIENT INITIAL: _____

SAMPLES ON ICE: 5.0 Yes/No

COMMENTS: _____



CHAIN-OF-CUSTODY RECORD

PROJECT # **F1209343**

Page _____ of _____

11/8/2012

Client: Test America
 Report To: Alamy Robertson
 Bill To: Test America

Project Name: Naples Sombrero
 Project Location: Naples, FL
 Customer Type: _____
 Kit #: _____
 Preservative: HCl = H, HNO₃ = N, Na₂S₂O₃ = ST, H₂SO₄ = S, NaOH = SH, NH₄Cl = NH

Address: _____
 Phone: _____ Fax: _____
 Requested Due Date: 10/8/12

Sampled By (PRINT): _____

Sampler Signature: _____

Matrix	SAMPLE DESCRIPTION	DATE	TIME	TYPE	PRESERVATIVES			ANALYSES REQUESTED	Sample ID #
					H	Cl	SO ₄		
sw	GB	9/25	1245	Grab				✓	9A
	20B		1300					✓	10A
	21B		1330					✓	11A
	22A3		1400					✓	12A
	22B		1430					✓	13A
	PW-Pump		1445					✓	14A
	Reuse 1		1500					✓	15A

Bottle Lot: _____

RELINQUISHED BY / AFFILIATION: Sam Arden / AMEC DATE: 9/25/12 TIME: 1550
 ACCEPTED BY / AFFILIATION: [Signature] DATE: 9/25/12 TIME: 1550

OKAY TO RUN AS IS... YES NO

CLIENT INITIAL: _____
 SAMPLES ON ICE: YES NO

COMMENTS: 94

- 1
- 2
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CHAIN-OF-CUSTODY RECORD

PROJECT # FI209343

Page 1 of 1

11/8/2012

Client TEST AMERICA (FOR AMEC)

Report To: TEST AMERICA
 MARY ROBERTSON

Project Name: CITY OF NAPLES
STORM WATER

Address 1784 PA

Project Location: NAPLES FL

Phone 813-885-7427 fax

Preservative: HCl = H, HNO₃ = N, Na₂SO₃ = ST,
 HSO₄ = S, NaOH = SH, NH₄Cl = NH

Requested Due Date: 10/8/12

Sampled By (PRINT) TOM TSATES (AMEC)

Sampler Signature [Signature]

PRESERVATIVES

ANALYSES REQUEST

**ENTERO
FECAL**

Sample ID #

Matrix	SAMPLE DESCRIPTION	DATE	TIME	TYPE	PH	CE	ENTERO FECAL	Sample ID #
	7B	9/26/12	730	G			✓	16A
	8B		800				✓	17A
	9B		830				✓	18A
	10B		900				✓	19A
	11B		930				✓	20A
	11 PUMP		945				✓	21A

RELINQUISHED BY / AFFILIATION: T. TSATES AMEC DATE: 9/26/12 TIME: 03:00

ACCEPTED BY / AFFILIATION: [Signature] DATE: 9/26/12 TIME: 11:15

CLIENT INITIAL: [Signature]

OKAY TO RUN AS IS... YES NO

Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-50305-1

Login Number: 50305

List Number: 1

Creator: McNulty, Carol

List Source: TestAmerica Tampa

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-50305-1

Login Number: 50305

List Number: 1

Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

List Creation: 09/28/12 12:21 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-50305-1

Login Number: 50305

List Number: 1

Creator: Delp, Eric

List Source: TestAmerica Tallahassee

List Creation: 09/29/12 02:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



Quarter 4

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Tampa
6712 Benjamin Road
Suite 100
Tampa, FL 33634
Tel: (813)885-7427

TestAmerica Job ID: 660-51589-1

Client Project/Site: City of Naples Stormwater 2012

For:

AMEC Environment & Infrastructure, Inc.
222 Industrial Blvd., Suite 155
Naples, Florida 34104

Attn: Mr. Tom Bates



Authorized for release by:
12/31/2012 2:44:43 PM

Nancy Robertson
Project Manager II
nancy.robertson@testamericainc.com

LINKS

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www.testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-51589-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-51589-1	14-Pump	Water	12/06/12 10:15	12/07/12 09:00
660-51589-2	11-Pump	Water	12/06/12 11:15	12/07/12 09:00
660-51589-3	PW-Pump	Water	12/06/12 12:45	12/07/12 09:00
660-51589-4	Reuse 3	Water	12/06/12 14:25	12/07/12 09:00

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Case Narrative

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-51589-1

Job ID: 660-51589-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative
660-51589-1

Comments

No additional comments.

Receipt

The samples were received on 12/7/2012 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

Metals

No analytical or quality issues were noted.

LCMS

No analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

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Definitions/Glossary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-51589-1

Qualifiers

LCMS

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Indicates that the compound was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates that the compound was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-51589-1

Client Sample ID: 14-Pump

Lab Sample ID: 660-51589-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.2		2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.6		0.20	0.15	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.32		0.050	0.010	mg/L	1		353.2	Total/NA
Phosphorus	0.40		0.020	0.0088	mg/L	2		365.1	Total/NA
Total Suspended Solids	4.0		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.9		0.25	0.25	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: 11-Pump

Lab Sample ID: 660-51589-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.1	I	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.4		0.20	0.15	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.41		0.050	0.010	mg/L	1		353.2	Total/NA
Phosphorus	0.13		0.020	0.0088	mg/L	2		365.1	Total/NA
Total Suspended Solids	2.8		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.8		0.25	0.25	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: PW-Pump

Lab Sample ID: 660-51589-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.3	I	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	1.1		0.20	0.15	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.30		0.050	0.010	mg/L	1		353.2	Total/NA
Phosphorus	0.099		0.020	0.0088	mg/L	2		365.1	Total/NA
Total Suspended Solids	1.2		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.4		0.25	0.25	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: Reuse 3

Lab Sample ID: 660-51589-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.96	I	2.0	0.14	ug/L	1		200.8	Total Recoverable
Nitrogen, Kjeldahl	0.82		0.20	0.15	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.33		0.050	0.010	mg/L	1		353.2	Total/NA
Phosphorus	0.74		0.020	0.0088	mg/L	2		365.1	Total/NA
Total Suspended Solids	1.6		1.0	1.0	mg/L	1		SM 2540D	Total/NA
Nitrogen, Total	1.2		0.25	0.25	mg/L	1		Total Nitrogen	Total/NA

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-51589-1

Client Sample ID: 14-Pump

Date Collected: 12/06/12 10:15

Date Received: 12/07/12 09:00

Lab Sample ID: 660-51589-1

Matrix: Water

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.2		2.0	0.14	ug/L		12/09/12 17:51	12/11/12 16:51	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.6		0.20	0.15	mg/L		12/10/12 08:36	12/11/12 12:32	1
Nitrate Nitrite as N	0.32		0.050	0.010	mg/L			12/12/12 13:42	1
Phosphorus	0.40		0.020	0.0088	mg/L		12/10/12 12:24	12/11/12 13:53	2
Total Suspended Solids	4.0		1.0	1.0	mg/L			12/13/12 13:13	1
Nitrogen, Total	1.9		0.25	0.25	mg/L			12/20/12 10:48	1

Client Sample ID: 11-Pump

Date Collected: 12/06/12 11:15

Date Received: 12/07/12 09:00

Lab Sample ID: 660-51589-2

Matrix: Water

Method: 1694 - Pharmaceuticals and Personal Care Products (LC/MS/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caffeine	50	U	50	50	ng/L		12/13/12 13:18	12/28/12 22:31	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>13C3-Caffeine</i>	<i>89</i>		<i>25 - 150</i>				<i>12/13/12 13:18</i>	<i>12/28/12 22:31</i>	<i>1</i>

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.1	I	2.0	0.14	ug/L		12/09/12 17:51	12/11/12 16:55	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.4		0.20	0.15	mg/L		12/10/12 08:36	12/11/12 12:33	1
Nitrate Nitrite as N	0.41		0.050	0.010	mg/L			12/12/12 13:48	1
Phosphorus	0.13		0.020	0.0088	mg/L		12/10/12 12:24	12/11/12 13:55	2
Total Suspended Solids	2.8		1.0	1.0	mg/L			12/13/12 13:13	1
Nitrogen, Total	1.8		0.25	0.25	mg/L			12/20/12 10:48	1

Client Sample ID: PW-Pump

Date Collected: 12/06/12 12:45

Date Received: 12/07/12 09:00

Lab Sample ID: 660-51589-3

Matrix: Water

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.3	I	2.0	0.14	ug/L		12/09/12 17:51	12/11/12 16:59	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	1.1		0.20	0.15	mg/L		12/10/12 08:36	12/11/12 12:34	1
Nitrate Nitrite as N	0.30		0.050	0.010	mg/L			12/12/12 13:49	1
Phosphorus	0.099		0.020	0.0088	mg/L		12/10/12 12:24	12/11/12 13:57	2
Total Suspended Solids	1.2		1.0	1.0	mg/L			12/13/12 13:13	1
Nitrogen, Total	1.4		0.25	0.25	mg/L			12/20/12 10:48	1

TestAmerica Tampa

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-51589-1

Client Sample ID: Reuse 3

Lab Sample ID: 660-51589-4

Date Collected: 12/06/12 14:25

Matrix: Water

Date Received: 12/07/12 09:00

Method: 1694 - Pharmaceuticals and Personal Care Products (LC/MS/MS)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caffeine	50	U	50	50	ng/L		12/13/12 13:18	12/28/12 23:02	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C3-Caffeine	60		25 - 150				12/13/12 13:18	12/28/12 23:02	1

Method: 200.8 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.96	I	2.0	0.14	ug/L		12/09/12 17:51	12/11/12 17:03	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.82		0.20	0.15	mg/L		12/10/12 08:36	12/11/12 12:35	1
Nitrate Nitrite as N	0.33		0.050	0.010	mg/L			12/12/12 13:50	1
Phosphorus	0.74		0.020	0.0088	mg/L		12/10/12 12:24	12/11/12 14:00	2
Total Suspended Solids	1.6		1.0	1.0	mg/L			12/13/12 13:13	1
Nitrogen, Total	1.2		0.25	0.25	mg/L			12/20/12 10:48	1

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-51589-1

Method: 1694 - Pharmaceuticals and Personal Care Products (LC/MS/MS)

Lab Sample ID: MB 320-8028/1-A
Matrix: Water
Analysis Batch: 8061

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8028

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caffeine	50	U	50	50	ng/L		12/13/12 13:18	12/28/12 22:01	1
Isotope Dilution	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
¹³ C3-Caffeine	34		25 - 150				12/13/12 13:18	12/28/12 22:01	1

Lab Sample ID: LCS 320-8028/2-A
Matrix: Water
Analysis Batch: 8061

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8028

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Caffeine	100	108		ng/L		108	60 - 140
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits				
¹³ C3-Caffeine	30		25 - 150				

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 180-57750/1-A
Matrix: Water
Analysis Batch: 58038

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 57750

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.14	U	2.0	0.14	ug/L		12/09/12 17:51	12/11/12 15:36	1

Lab Sample ID: LCS 180-57750/2-A
Matrix: Water
Analysis Batch: 58038

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 57750

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	250	220		ug/L		88	85 - 115

Lab Sample ID: LCSD 180-57750/3-A
Matrix: Water
Analysis Batch: 58038

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 57750

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	250	236		ug/L		94	85 - 115	7	20

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 680-259252/2-A
Matrix: Water
Analysis Batch: 259371

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259252

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrogen, Kjeldahl	0.15	U	0.20	0.15	mg/L		12/10/12 08:36	12/11/12 12:16	1

TestAmerica Tampa

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-51589-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 680-259252/1-A
Matrix: Water
Analysis Batch: 259371

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259252

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	2.00	1.98		mg/L		99	75 - 125

Lab Sample ID: 660-51580-A-1-B MS
Matrix: Water
Analysis Batch: 259371

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 259252

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrogen, Kjeldahl	1.3		2.00	3.15		mg/L		92	75 - 125

Lab Sample ID: 660-51580-A-1-C MSD
Matrix: Water
Analysis Batch: 259371

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 259252

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrogen, Kjeldahl	1.3		2.00	3.42		mg/L		106	75 - 125	8	40

Lab Sample ID: 660-51580-A-2-B DU
Matrix: Water
Analysis Batch: 259371

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 259252

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrogen, Kjeldahl	0.66		0.989		mg/L		39	40

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-259626/15
Matrix: Water
Analysis Batch: 259626

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.010	U	0.050	0.010	mg/L			12/12/12 13:39	1

Lab Sample ID: LCS 680-259626/16
Matrix: Water
Analysis Batch: 259626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.997	1.04		mg/L		105	90 - 110

Lab Sample ID: 660-51589-1 MS
Matrix: Water
Analysis Batch: 259626

Client Sample ID: 14-Pump
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.32		0.997	1.36		mg/L		104	90 - 110

TestAmerica Tampa

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-51589-1

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 660-51589-1 MSD
 Matrix: Water
 Analysis Batch: 259626

Client Sample ID: 14-Pump
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.32		0.997	1.35		mg/L		103	90 - 110	1	10

Lab Sample ID: 680-85583-A-2 DU
 Matrix: Water
 Analysis Batch: 259626

Client Sample ID: Duplicate
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	0.14		0.143		mg/L		0.2	10

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 640-97951/3-A
 Matrix: Water
 Analysis Batch: 97981

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 97951

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.0044	U	0.010	0.0044	mg/L		12/10/12 12:24	12/11/12 11:06	1

Lab Sample ID: LCS 640-97951/5-A
 Matrix: Water
 Analysis Batch: 97981

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 97951

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.100	0.0989		mg/L		99	90 - 110

Lab Sample ID: LCSD 640-97951/6-A
 Matrix: Water
 Analysis Batch: 97981

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 97951

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus	0.100	0.0995		mg/L		100	90 - 110	1	30

Lab Sample ID: 180-17063-F-3-A MS
 Matrix: Water
 Analysis Batch: 97981

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 97951

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.019		0.100	0.118		mg/L		99	90 - 110

Lab Sample ID: 180-17063-F-3-B MSD
 Matrix: Water
 Analysis Batch: 97981

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 97951

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus	0.019		0.100	0.118		mg/L		100	90 - 110	0	30

TestAmerica Tampa

QC Sample Results

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-51589-1

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: 180-17063-G-3-D DU
 Matrix: Water
 Analysis Batch: 97981

Client Sample ID: Duplicate
 Prep Type: Total/NA
 Prep Batch: 97951

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Phosphorus	0.019		0.0184		mg/L		1	30

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 660-132457/1
 Matrix: Water
 Analysis Batch: 132457

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Suspended Solids	1.0	U	1.0	1.0	mg/L			12/13/12 13:13	1

Lab Sample ID: LCS 660-132457/2
 Matrix: Water
 Analysis Batch: 132457

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

Lab Sample ID: 660-51589-1 DU
 Matrix: Water
 Analysis Batch: 132457

Client Sample ID: 14-Pump
 Prep Type: Total/NA

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Suspended Solids	4.0		4.80		mg/L		18	20

Lab Sample ID: 660-51589-2 DU
 Matrix: Water
 Analysis Batch: 132457

Client Sample ID: 11-Pump
 Prep Type: Total/NA

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Total Suspended Solids	2.8		3.20		mg/L		13	20

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-51589-1

LCMS

Prep Batch: 8028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-51589-2	11-Pump	Total/NA	Water	1694	
660-51589-4	Reuse 3	Total/NA	Water	1694	
LCS 320-8028/2-A	Lab Control Sample	Total/NA	Water	1694	
MB 320-8028/1-A	Method Blank	Total/NA	Water	1694	

Analysis Batch: 8061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-51589-2	11-Pump	Total/NA	Water	1694	8028
660-51589-4	Reuse 3	Total/NA	Water	1694	8028
LCS 320-8028/2-A	Lab Control Sample	Total/NA	Water	1694	8028
MB 320-8028/1-A	Method Blank	Total/NA	Water	1694	8028

Metals

Prep Batch: 57750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-51589-1	14-Pump	Total Recoverable	Water	200.8	
660-51589-2	11-Pump	Total Recoverable	Water	200.8	
660-51589-3	PW-Pump	Total Recoverable	Water	200.8	
660-51589-4	Reuse 3	Total Recoverable	Water	200.8	
LCS 180-57750/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 180-57750/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	
MB 180-57750/1-A	Method Blank	Total Recoverable	Water	200.8	

Analysis Batch: 58038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-51589-1	14-Pump	Total Recoverable	Water	200.8	57750
660-51589-2	11-Pump	Total Recoverable	Water	200.8	57750
660-51589-3	PW-Pump	Total Recoverable	Water	200.8	57750
660-51589-4	Reuse 3	Total Recoverable	Water	200.8	57750
LCS 180-57750/2-A	Lab Control Sample	Total Recoverable	Water	200.8	57750
LCSD 180-57750/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	57750
MB 180-57750/1-A	Method Blank	Total Recoverable	Water	200.8	57750

General Chemistry

Prep Batch: 97951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-17063-F-3-A MS	Matrix Spike	Total/NA	Water	365.2/365.3/365	
180-17063-F-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	365.2/365.3/365	
180-17063-G-3-D DU	Duplicate	Total/NA	Water	365.2/365.3/365	
660-51589-1	14-Pump	Total/NA	Water	365.2/365.3/365	
660-51589-2	11-Pump	Total/NA	Water	365.2/365.3/365	
660-51589-3	PW-Pump	Total/NA	Water	365.2/365.3/365	
660-51589-4	Reuse 3	Total/NA	Water	365.2/365.3/365	
LCS 640-97951/5-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
LCSD 640-97951/6-A	Lab Control Sample Dup	Total/NA	Water	365.2/365.3/365	
MB 640-97951/3-A	Method Blank	Total/NA	Water	365.2/365.3/365	

TestAmerica Tampa

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-51589-1

General Chemistry (Continued)

Analysis Batch: 97981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-17063-F-3-A MS	Matrix Spike	Total/NA	Water	365.1	97951
180-17063-F-3-B MSD	Matrix Spike Duplicate	Total/NA	Water	365.1	97951
180-17063-G-3-D DU	Duplicate	Total/NA	Water	365.1	97951
LCS 640-97951/5-A	Lab Control Sample	Total/NA	Water	365.1	97951
LCS 640-97951/6-A	Lab Control Sample Dup	Total/NA	Water	365.1	97951
MB 640-97951/3-A	Method Blank	Total/NA	Water	365.1	97951

Analysis Batch: 97990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-51589-1	14-Pump	Total/NA	Water	365.1	97951
660-51589-2	11-Pump	Total/NA	Water	365.1	97951
660-51589-3	PW-Pump	Total/NA	Water	365.1	97951
660-51589-4	Reuse 3	Total/NA	Water	365.1	97951

Analysis Batch: 132457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-51589-1	14-Pump	Total/NA	Water	SM 2540D	
660-51589-1 DU	14-Pump	Total/NA	Water	SM 2540D	
660-51589-2	11-Pump	Total/NA	Water	SM 2540D	
660-51589-2 DU	11-Pump	Total/NA	Water	SM 2540D	
660-51589-3	PW-Pump	Total/NA	Water	SM 2540D	
660-51589-4	Reuse 3	Total/NA	Water	SM 2540D	
LCS 660-132457/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 660-132457/1	Method Blank	Total/NA	Water	SM 2540D	

Prep Batch: 259252

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-51580-A-1-B MS	Matrix Spike	Total/NA	Water	Digestion	
660-51580-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	Digestion	
660-51580-A-2-B DU	Duplicate	Total/NA	Water	Digestion	
660-51589-1	14-Pump	Total/NA	Water	Digestion	
660-51589-2	11-Pump	Total/NA	Water	Digestion	
660-51589-3	PW-Pump	Total/NA	Water	Digestion	
660-51589-4	Reuse 3	Total/NA	Water	Digestion	
LCS 680-259252/1-A	Lab Control Sample	Total/NA	Water	Digestion	
MB 680-259252/2-A	Method Blank	Total/NA	Water	Digestion	

Analysis Batch: 259371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-51580-A-1-B MS	Matrix Spike	Total/NA	Water	351.2	259252
660-51580-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	351.2	259252
660-51580-A-2-B DU	Duplicate	Total/NA	Water	351.2	259252
660-51589-1	14-Pump	Total/NA	Water	351.2	259252
660-51589-2	11-Pump	Total/NA	Water	351.2	259252
660-51589-3	PW-Pump	Total/NA	Water	351.2	259252
660-51589-4	Reuse 3	Total/NA	Water	351.2	259252
LCS 680-259252/1-A	Lab Control Sample	Total/NA	Water	351.2	259252
MB 680-259252/2-A	Method Blank	Total/NA	Water	351.2	259252

TestAmerica Tampa

QC Association Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-51589-1

General Chemistry (Continued)

Analysis Batch: 259626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-51589-1	14-Pump	Total/NA	Water	353.2	
660-51589-1 MS	14-Pump	Total/NA	Water	353.2	
660-51589-1 MSD	14-Pump	Total/NA	Water	353.2	
660-51589-2	11-Pump	Total/NA	Water	353.2	
660-51589-3	PW-Pump	Total/NA	Water	353.2	
660-51589-4	Reuse 3	Total/NA	Water	353.2	
680-85583-A-2 DU	Duplicate	Total/NA	Water	353.2	
LCS 680-259626/16	Lab Control Sample	Total/NA	Water	353.2	
MB 680-259626/15	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 260004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-51589-1	14-Pump	Total/NA	Water	Total Nitrogen	
660-51589-2	11-Pump	Total/NA	Water	Total Nitrogen	
660-51589-3	PW-Pump	Total/NA	Water	Total Nitrogen	
660-51589-4	Reuse 3	Total/NA	Water	Total Nitrogen	



Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-51589-1

Client Sample ID: 14-Pump

Date Collected: 12/06/12 10:15

Date Received: 12/07/12 09:00

Lab Sample ID: 660-51589-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			100 mL	100 mL	57750	12/09/12 17:51	CH	TAL PIT
Total Recoverable	Analysis	200.8		1			58038	12/11/12 16:51	RR	TAL PIT
Total/NA	Prep	365.2/365.3/365			25 mL	25 mL	97951	12/10/12 12:24	AJN	TAL TAL
Total/NA	Analysis	365.1		2			97990	12/11/12 13:53	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	132457	12/13/12 13:13	TO	TAL TAM
Total/NA	Prep	Digestion			20 mL	20 mL	259252	12/10/12 08:36	MAP	TAL SAV
Total/NA	Analysis	351.2		1			259371	12/11/12 12:32	JR	TAL SAV
Total/NA	Analysis	353.2		1	2.0 mL	2.0 mL	259626	12/12/12 13:42	JNC	TAL SAV
Total/NA	Analysis	Total Nitrogen		1			260004	12/20/12 10:48	JR	TAL SAV

Client Sample ID: 11-Pump

Date Collected: 12/06/12 11:15

Date Received: 12/07/12 09:00

Lab Sample ID: 660-51589-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1694			990.4 mL	2.00 mL	8028	12/13/12 13:18	JR	TAL WSC
Total/NA	Analysis	1694		1			8061	12/28/12 22:31	NS	TAL WSC
Total Recoverable	Prep	200.8			100 mL	100 mL	57750	12/09/12 17:51	CH	TAL PIT
Total Recoverable	Analysis	200.8		1			58038	12/11/12 16:55	RR	TAL PIT
Total/NA	Prep	365.2/365.3/365			25 mL	25 mL	97951	12/10/12 12:24	AJN	TAL TAL
Total/NA	Analysis	365.1		2			97990	12/11/12 13:55	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	132457	12/13/12 13:13	TO	TAL TAM
Total/NA	Prep	Digestion			20 mL	20 mL	259252	12/10/12 08:36	MAP	TAL SAV
Total/NA	Analysis	351.2		1			259371	12/11/12 12:33	JR	TAL SAV
Total/NA	Analysis	353.2		1	2.0 mL	2.0 mL	259626	12/12/12 13:48	JNC	TAL SAV
Total/NA	Analysis	Total Nitrogen		1			260004	12/20/12 10:48	JR	TAL SAV

Client Sample ID: PW-Pump

Date Collected: 12/06/12 12:45

Date Received: 12/07/12 09:00

Lab Sample ID: 660-51589-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			100 mL	100 mL	57750	12/09/12 17:51	CH	TAL PIT
Total Recoverable	Analysis	200.8		1			58038	12/11/12 16:59	RR	TAL PIT
Total/NA	Prep	365.2/365.3/365			25 mL	25 mL	97951	12/10/12 12:24	AJN	TAL TAL
Total/NA	Analysis	365.1		2			97990	12/11/12 13:57	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	132457	12/13/12 13:13	TO	TAL TAM
Total/NA	Prep	Digestion			20 mL	20 mL	259252	12/10/12 08:36	MAP	TAL SAV
Total/NA	Analysis	351.2		1			259371	12/11/12 12:34	JR	TAL SAV
Total/NA	Analysis	353.2		1	2.0 mL	2.0 mL	259626	12/12/12 13:49	JNC	TAL SAV
Total/NA	Analysis	Total Nitrogen		1			260004	12/20/12 10:48	JR	TAL SAV

TestAmerica Tampa

Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-51589-1

Client Sample ID: Reuse 3

Lab Sample ID: 660-51589-4

Date Collected: 12/06/12 14:25

Matrix: Water

Date Received: 12/07/12 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1694			991 mL	2.00 mL	8028	12/13/12 13:18	JR	TAL WSC
Total/NA	Analysis	1694		1			8061	12/28/12 23:02	NS	TAL WSC
Total Recoverable	Prep	200.8			100 mL	100 mL	57750	12/09/12 17:51	CH	TAL PIT
Total Recoverable	Analysis	200.8		1			58038	12/11/12 17:03	RR	TAL PIT
Total/NA	Prep	365.2/365.3/365			25 mL	25 mL	97951	12/10/12 12:24	AJN	TAL TAL
Total/NA	Analysis	365.1		2			97990	12/11/12 14:00	AJN	TAL TAL
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	132457	12/13/12 13:13	TO	TAL TAM
Total/NA	Prep	Digestion			20 mL	20 mL	259252	12/10/12 08:36	MAP	TAL SAV
Total/NA	Analysis	351.2		1			259371	12/11/12 12:35	JR	TAL SAV
Total/NA	Analysis	353.2		1	2.0 mL	2.0 mL	259626	12/12/12 13:50	JNC	TAL SAV
Total/NA	Analysis	Total Nitrogen		1			260004	12/20/12 10:48	JR	TAL SAV

Laboratory References:

- = Sanders Laboratories Inc., 1050 Endeavor Ct., Nokomis, FL 34275
- TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058
- TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858
- TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994
- TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427
- TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Method Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-51589-1

Method	Method Description	Protocol	Laboratory
1694	Pharmaceuticals and Personal Care Products (LC/MS/MS)	EPA	TAL WSC
200.8	Metals (ICP/MS)	EPA	TAL PIT
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL SAV
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SAV
365.1	Phosphorus, Total	EPA	TAL TAL
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL TAM
Total Nitrogen	Nitrogen, Total	EPA	TAL SAV
Enterococcus and Fecal Coliform	Microbiology	NONE	

Protocol References:

- EPA = US Environmental Protection Agency
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- NONE = NONE
- SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

- = Sanders Laboratories Inc., 1050 Endeavor Ct., Nokomis, FL 34275
- TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058
- TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858
- TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994
- TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427
- TAL WSC = TestAmerica West Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Certification Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-51589-1

Laboratory: TestAmerica Tampa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40610	06-30-13
Florida	NELAP	4	E84282	06-30-13
Georgia	State Program	4	905	06-30-13
USDA	Federal		P330-11-00177	04-20-14

Laboratory: TestAmerica Pittsburgh

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0690	06-27-13
California	NELAP	9	4224CA	03-31-13
Connecticut	State Program	1	PH-0688	09-30-14
Florida	NELAP	4	E871008	06-30-13
Illinois	NELAP	5	002602	06-30-13
Kansas	NELAP	7	E-10350	01-31-13
L-A-B	DoD ELAP		L2314	02-24-13
Louisiana	NELAP	6	04041	06-30-13
New Hampshire	NELAP	1	203011	04-04-13
New Jersey	NELAP	2	PA005	06-30-13
New York	NELAP	2	11182	04-01-13
North Carolina DENR	State Program	4	434	12-31-12
Pennsylvania	NELAP	3	02-00416	04-30-13
South Carolina	State Program	4	89014	04-30-13
USDA	Federal		P-Soil-01	04-16-15
USDA	Federal		P330-10-00139	04-28-13
Utah	NELAP	8	STLP	04-30-13
Virginia	NELAP	3	460189	09-14-13
West Virginia DEP	State Program	3	142	01-31-13
Wisconsin	State Program	5	998027800	08-31-13

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		0399-01	02-28-13
A2LA	ISO/IEC 17025		399.01	02-28-13
Alabama	State Program	4	41450	06-30-13
Alaska (UST)	State Program	10	UST-104	06-19-13
Arkansas DEQ	State Program	6	88-0692	02-01-13
California	NELAP	9	3217CA	07-31-13
Connecticut	State Program	1	PH-0161	03-31-13
Florida	NELAP	4	E87052	06-30-13
GA Dept. of Agriculture	State Program	4	N/A	12-31-12
Georgia	State Program	4	N/A	06-30-13
Georgia	State Program	4	803	06-30-13
Guam	State Program	9	09-005r	04-17-13
Hawaii	State Program	9	N/A	06-30-13
Illinois	NELAP	5	200022	11-30-12
Indiana	State Program	5	N/A	06-30-13
Iowa	State Program	7	353	07-01-13
Kentucky (UST)	State Program	4	18	02-28-13
Louisiana	NELAP	6	30690	06-30-13

TestAmerica Tampa

Certification Summary

Client: AMEC Environment & Infrastructure, Inc.
 Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-51589-1

Laboratory: TestAmerica Savannah (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Maine	State Program	1	GA00006	08-16-14
Massachusetts	State Program	1	M-GA006	06-30-13
Michigan	State Program	5	9925	06-30-13
Mississippi	State Program	4	N/A	06-30-13
Nebraska	State Program	7	TestAmerica-Savannah	06-30-13
New Jersey	NELAP	2	GA769	06-30-13
New Mexico	State Program	6	N/A	06-30-13
New York	NELAP	2	10842	04-01-13
North Carolina DENR	State Program	4	269	12-31-13
North Carolina DHHS	State Program	4	13701	07-31-13
Oklahoma	State Program	6	9984	08-31-13
Pennsylvania	NELAP	3	68-00474	06-30-13
Puerto Rico	State Program	2	GA00006	01-01-13
South Carolina	State Program	4	98001	06-30-13
Tennessee	State Program	4	TN02961	06-30-13
Texas	NELAP	6	T104704185-08-TX	11-30-13
USDA	Federal		SAV 3-04	04-07-14
Virginia	NELAP	3	460161	06-14-13
Washington	State Program	10	C1794	06-10-13
West Virginia DEP	State Program	3	94	06-30-13
Wisconsin	State Program	5	999819810	08-31-13
Wyoming	State Program	8	8TMS-Q	06-30-13

Laboratory: TestAmerica Tallahassee

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E81005	06-30-13
Louisiana	NELAP	6	30663	06-30-13
New Jersey	NELAP	2	FL012	06-30-13
Texas	NELAP	6	T104704459-11-2	03-31-13
USDA	Federal		P330-08-00158	08-05-14

Laboratory: TestAmerica West Sacramento

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-14
Alaska (UST)	State Program	10	UST-055	12-18-12
Arizona	State Program	9	AZ0708	08-11-13
Arkansas DEQ	State Program	6	88-0691	06-17-13
California	NELAP	9	1119CA	01-31-13
Colorado	State Program	8	N/A	08-31-13
Connecticut	State Program	1	PH-0691	06-30-13
Florida	NELAP	4	E87570	06-30-13
Guam	State Program	9	N/A	08-31-13
Hawaii	State Program	9	N/A	01-31-13
Illinois	NELAP	5	200060	03-17-13
Kansas	NELAP	7	E-10375	10-31-13
Louisiana	NELAP	6	30612	06-30-13
Michigan	State Program	5	9947	01-31-13
Nevada	State Program	9	CA44	07-31-13

Certification Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-51589-1

Laboratory: TestAmerica West Sacramento (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New Jersey	NELAP	2	CA005	06-30-13
New York	NELAP	2	11666	04-01-13
Northern Mariana Islands	State Program	9	MP0007	01-31-13
Oregon	NELAP	10	CA200005	03-28-13
Pennsylvania	NELAP	3	68-01272	03-31-13
South Carolina	State Program	4	87014	06-30-13
Texas	NELAP	6	T104704399-08-TX	05-31-13
US Fish & Wildlife	Federal		LE148388-0	02-28-13
USDA	Federal		P330-11-00436	12-30-14
Utah	NELAP	8	QUAN1	01-31-13
Washington	State Program	10	C581	05-05-13
West Virginia DEP	State Program	3	334	07-31-13
Wyoming	State Program	8	8TMS-Q	01-31-13



Laboratory Test Report

Lab Project #: F1212119

Page 1 of 3

All subsequent pages are identified by: F1212119.

These pages may include, but are not limited to: Analytical Data, Chains of Custodys, Subcontracted Data and Case Narratives.

Questions regarding this report should be directed to your **Laboratory Contact:**

Client: Test America Tampa

Attn: Nancy Robertson
6712 Benjamin Rd Suite 10
Tampa, FL 33634
Phone: 813-885-7427
Fax:
E-mail:
Project Name: MACTEC

QUALIFIER DEFINITIONS

- B: Results based upon colony counts outside the acceptable range.
 - I: The reported value is greater than or equal to the laboratory MDL but less than the laboratory PQL.
 - J: Estimated Value.
 - J7: Excessive amounts of Sodium Sulfite used to dechlorinate the sample due to high levels of chlorine present.
 - K: Off scale low, actual value is known to be less than the value given.
 - L: Off scale high, actual value is known to be greater than the value given.
 - Q: Sample held beyond acceptable holding time.
 - U: The compound was analyzed for, but not detected.
 - V: Indicates that the analyte was detected at or above the MDL in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value.
 - Y: The laboratory analysis was from an improperly preserved sample.
 - Z: Too many colonies were present for accurate counting.
- HACH results may not meet NELAC standards.

A statement of estimated uncertainty of results is available upon request.

Analytical results provided relate only to the samples received for this project.

Test results meet all the requirements of the NELAC standards, unless otherwise noted.

Laboratory report shall not be reproduced except in full, without the written approval of Sanders Laboratories.

Sanders Laboratories follows DEP standard operating procedures for field sampling, unless otherwise noted.

Laboratory PQL's are available upon request.

Reports are archived for a minimum of 5 years. Copies of reports which are less than 1 year old are available for a fee of \$25.00 per report. Reports older than 1 year are available for a fee of \$50.00 per report. Copies will be provided within 1 week of the time of the request.

Approved by:

Comments:

Radica Koutselas/QA Officer
Jeff Walsh/Project Manager

Nokomis Lab ~ 1050 Endeavor Ct. ~ Nokomis, FL 34275-3623 ~ Phone: 941-488-8103 ~ Fax: 941-484-6774 ~ DOH Certification # E84380
Fort Myers Lab ~ 10090 Bavaria Road ~ Fort Myers, FL 33913 ~ Phone: 239-590-0337 ~ Fax: 239-590-0536 ~ DOH Certification # E85457

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Page: Page 1 of 1

Client Project: MACTEC

Lab Project: F1212119

Report Date: 12/10/12

<u>Lab ID</u>	<u>Sample Description</u>	<u>Matrix</u>	<u>Sample Type</u>	<u>Received Date/Time</u>	<u>Sample Date/Time</u>
F1212119-01	14-PUMP	Ground Water	GRAB	12/6/12 15:39	12/6/12 10:15

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	<u>Method</u>	<u>Batch #</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN	550		1	1	MPN/100ml	Enterolert	FB121210011	12/6/12 16:00	LV	E85457
Fecal Coliform, MF	360	B	90	90	CFU/100ml	SM9222D	FB121210004	12/6/12 16:20	LV	E85457

<u>Lab ID</u>	<u>Sample Description</u>	<u>Matrix</u>	<u>Sample Type</u>	<u>Received Date/Time</u>	<u>Sample Date/Time</u>
F1212119-02	11-PUMP	Ground Water	GRAB	12/6/12 15:39	12/6/12 11:15

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	<u>Method</u>	<u>Batch #</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN	501		1	1	MPN/100ml	Enterolert	FB121210011	12/6/12 16:00	LV	E85457
Fecal Coliform, MF	450	B	90	90	CFU/100ml	SM9222D	FB121210004	12/6/12 16:20	LV	E85457

<u>Lab ID</u>	<u>Sample Description</u>	<u>Matrix</u>	<u>Sample Type</u>	<u>Received Date/Time</u>	<u>Sample Date/Time</u>
F1212119-03	PW-PUMP	Ground Water	GRAB	12/6/12 15:39	12/6/12 12:45

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	<u>Method</u>	<u>Batch #</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN	437		1	1	MPN/100ml	Enterolert	FB121210011	12/6/12 16:00	LV	E85457
Fecal Coliform, MF	5200		100	100	CFU/100ml	SM9222D	FB121210004	12/6/12 16:20	LV	E85457

<u>Lab ID</u>	<u>Sample Description</u>	<u>Matrix</u>	<u>Sample Type</u>	<u>Received Date/Time</u>	<u>Sample Date/Time</u>
F1212119-04	REUSE 3	Ground Water	GRAB	12/6/12 15:39	12/6/12 14:25

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	<u>Method</u>	<u>Batch #</u>	<u>Analysis Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN	1	U	1	1	MPN/100ml	Enterolert	FB121210011	12/6/12 16:00	LV	E85457
Fecal Coliform, MF	100	U	100	100	CFU/100ml	SM9222D	FB121210004	12/6/12 16:20	LV	E85457

TestAmerica Tampa
 6712 Benjamin Road Suite 100
 Tampa, FL 33634
 Phone (813) 885-7427 Fax (813) 885-7049

660-51589

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information
 Client Contact: Mr. Tom Bates
 Phone: 239 564 8483
 Email: nancy.robertson@testamericainc.com
 Job #: 680-43648-14325.1
 Page: Page 1 of 1

Company: AMEC Environment & Infrastructure, Inc.
 Address: 222 Industrial Blvd, Suite 155
 City: Naples
 State, Zip: FL, 34104
 Phone: 239-564-8483 (e)
 Email: tdibates@amec.com
 Project Name: City of Naples Stormwater 2012
 Project #: 68006041
 SSOW#: [blank]

Due Date Requested: STD
TAT Requested (days): [blank]
PO #: [blank]
Purchase Order Requested: [blank]
Field Filtered Sample (Yes or No): [blank]
Performing MSD (Yes or No): [blank]

Analysis Requested

200.8 - Copper	
365.1 - Phosphorus	
361.2, 363.2, Nitrogen, Total	
2640D - Total Suspended Solids	
SUBCONTRACT - Enterococcus and Fecal Coliform	

Sample Identification

Sample ID	Sample Date	Sample Time	Sample Type (O=comp, G=grab)	Matrix (Inhouse, Spreader, Other)	Field Filtered Sample (Yes or No)	Performing MSD (Yes or No)	Special Instructions/Note
14-PUMP	12/6/12	1015	G	Water			
11-PUMP		1115	G	Water			
PW-PUMP		1245	G	Water			
REUSE 3		1425	G	Water			

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Empty Kit Relinquished by: Alexandra Edwards
 Date: 9/30/13
 Time: 1105
 Method of Shipment: STD. DR.

Relinquished by: [Signature]
 Date/Time: 12/6/12 1830
 Company: AMEC

Relinquished by: [Signature]
 Date/Time: 12/13/12
 Company: [blank]

Relinquished by: [Signature]
 Date/Time: 2/20/14
 Company: [blank]

Custody Seal Intact: Yes No
 Custody Seal No.: 632096
 Cooler Temperature(s) °C and Other Remarks: 2.70, (u.07)

Special Instructions/Note:
 BAC-T'S were delivered to Sanders Lab in Ft. Myers

Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-51589-1

Login Number: 51589

List Number: 1

Creator: McNulty, Carol

List Source: TestAmerica Tampa

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-51589-1

Login Number: 51589

List Number: 1

Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

List Creation: 12/08/12 10:50 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-51589-1

Login Number: 51589

List Number: 1

Creator: Barnett, Eddie T

List Source: TestAmerica Savannah

List Creation: 12/08/12 08:42 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-51589-1

Login Number: 51589

List Number: 1

Creator: Delp, Eric

List Source: TestAmerica Tallahassee

List Creation: 12/08/12 10:55 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-51589-1

Login Number: 51589

List Number: 1

Creator: Control, Sac Data

List Source: TestAmerica West Sacramento

List Creation: 12/10/12 02:18 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Isotope Dilution Summary

Client: AMEC Environment & Infrastructure, Inc.
Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-51589-1

Method: 1694 - Pharmaceuticals and Personal Care Products (LC/MS/MS)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	³ C3-Caffein (25-150)
660-51589-2	11-Pump	89
660-51589-4	Reuse 3	60
LCS 320-8028/2-A	Lab Control Sample	30
MB 320-8028/1-A	Method Blank	34

Surrogate Legend

¹³C3-Caffeine = ¹³C3-Caffeine

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Appendix C
Photo log - 2012 Sampling Locations

Semi-annual Monitoring Locations - Lakes



Photo No. 1. Sample Location 01SE-B



Photo No. 2. Lake 1, NW Lobe, view from bisecting weir and Q3 sampling location 01SE-B



Photo No. 3. Lake 1, NW Lobe, South Bank

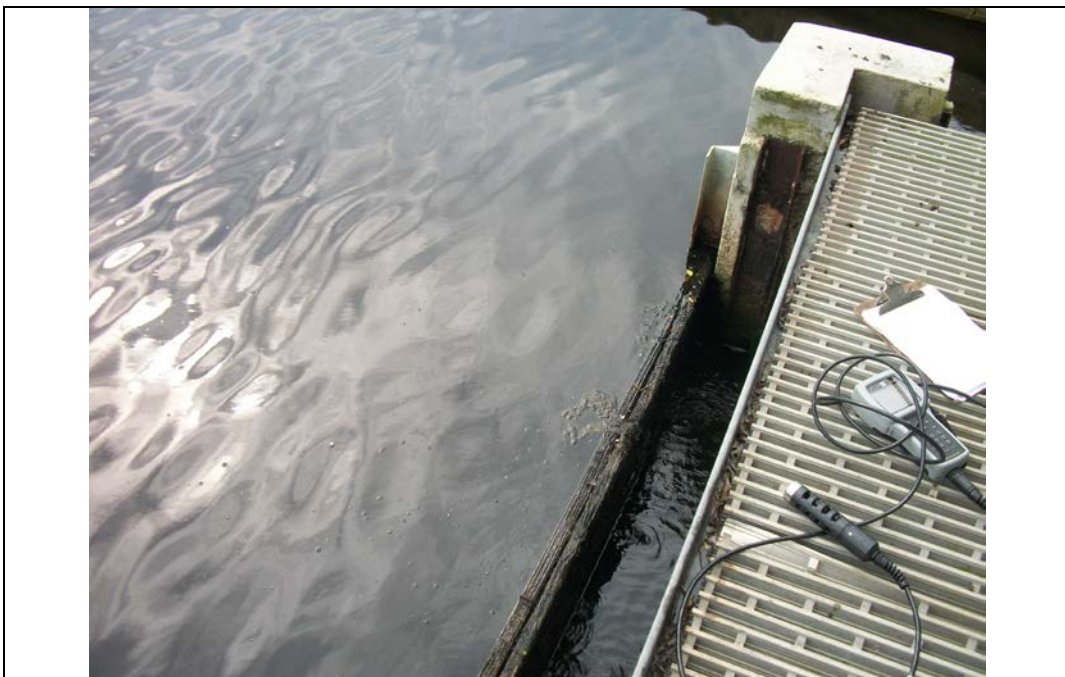


Photo No. 4. Sample Location 2B



Photo No. 5. Lake 2, view from outfall to the SE



Photo No. 6. Lake 2, view from outfall to the NE



Photo No. 7. Sample Location 3B



Photo No. 8. Lake 3, view from N end facing S



Photo No. 9. Sample Location 5B



Photo No. 10. Lake 5, view from outfall to the NE



Photo No. 11. Lake 5, view from SE end to the NW

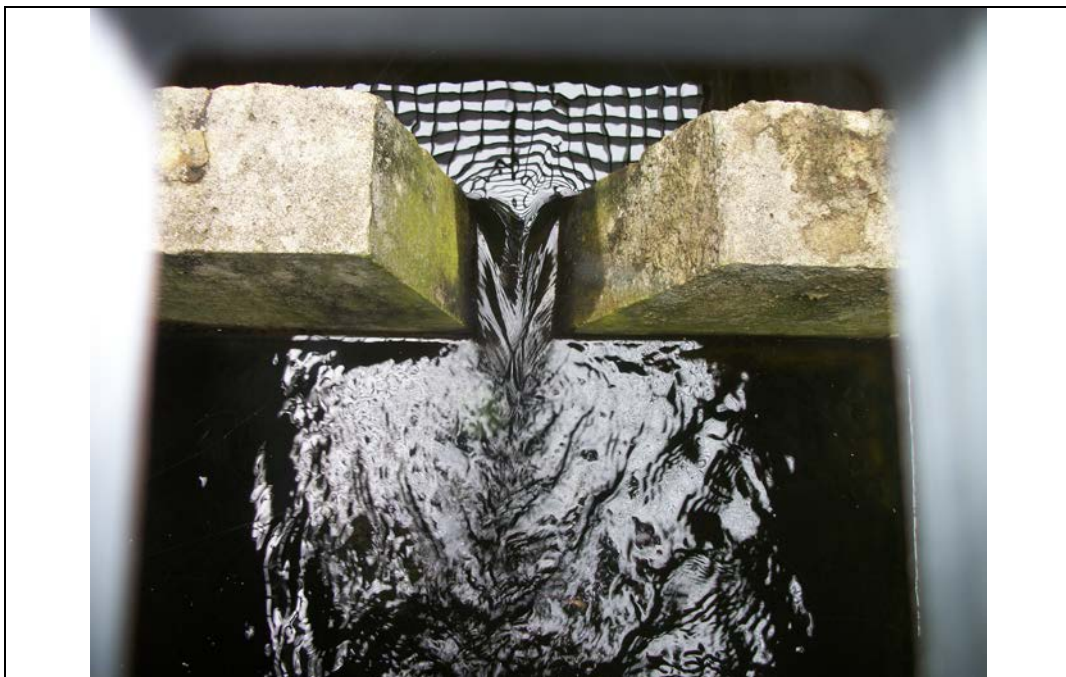


Photo No. 12. Sample Location 6B



Photo No. 13. Lake 6, view from outfall to the W



Photo No. 14. Lake 6, view from the S bank to the N



Photo No. 15. Sample Location 7B



Photo No. 16. Lake 7, view from outfall to the NE



Photo No. 17. Sample Location 8B



Photo No. 18. Lake 8, view from outfall to the NE



Photo No. 19. Sample location 9B



Photo No. 20. Lake 9, view from outfall to the E



Photo No. 21. Sample location 10B (50' upstream of outfall)



Photo No. 22. Lake 10 outfall (sample not taken here due to possible tidal influence)

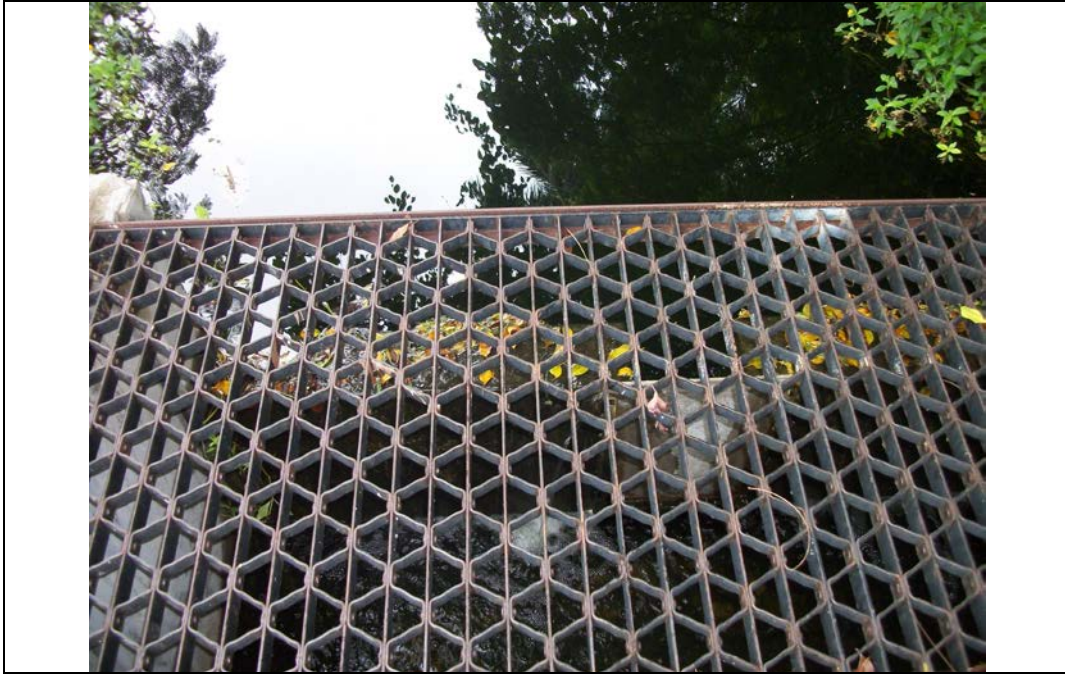


Photo No. 23. Sample location 11B



Photo No. 24. Lake 31 (connected to Lake 11), view from Sample location 11B outfall to the NW



Photo No. 25. Lake 11, view from N bank to the S

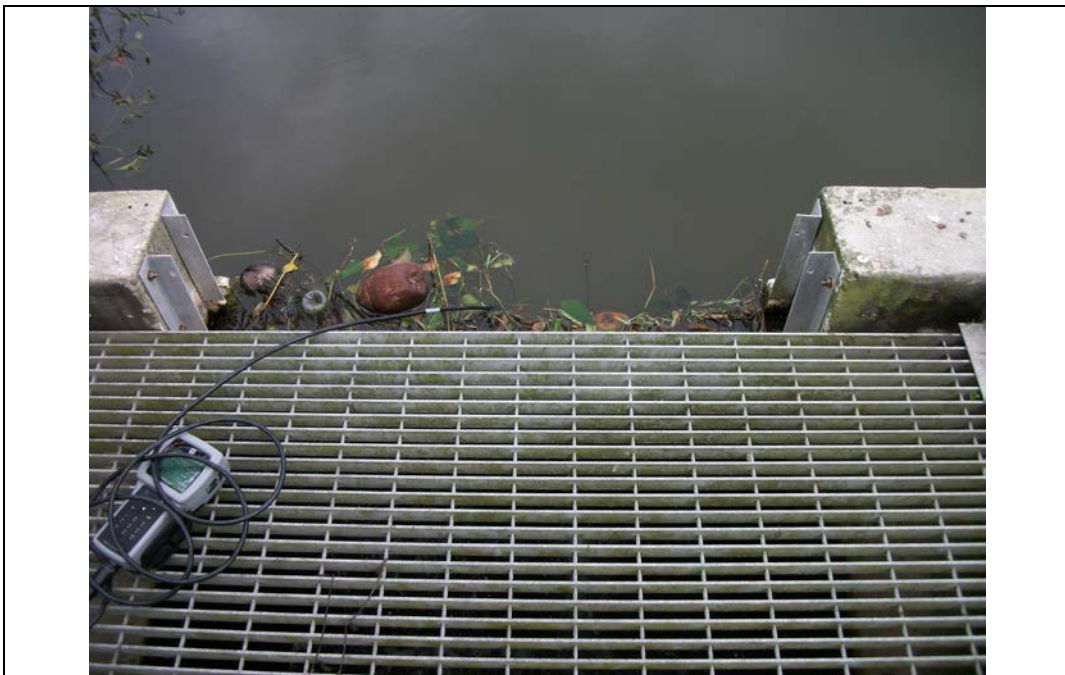


Photo No. 26. Sample location 14B



Photo No. 27. Lake 14, view from outfall to the N



Photo No. 28. Lake 14, view from outfall to the NE



Photo No. 29. Lake 14 view from Galleon Dr. Bridge to the N



Photo No. 30. Sample Location 15B



Photo No. 31. Lake 15, view from outfall to the W



Photo No. 32. Lake 15 surrounding neighborhood, numerous ducks observed



Photo No. 33. Sample location 16B



Photo No. 34. Lake 16, view from sample location 16B to the W, numerous ducks observed



Photo No. 35. Sample location 19B



Photo No. 36. Stand of Typha Spp. in front of sample location 19B



Photo No. 37. Lake 19, view from outfall to the SW



Photo No. 38. Sample location 20B



Photo No. 39. Lake 20, view from outfall to the NW (note green color of Lake)



Photo No. 40. Sample location 21B (sample taken from casted bailer into the lake)



Photo No. 41. Lake 21, view from outfall to the W



Photo No. 42. Sample location 22B



Photo No. 43. Recently cleared aquatic vegetation from Lake 22 outfall



Photo No. 44. Sample location 26B



Photo No. 45. Lake 26, view from outfall to the NW



Photo No. 46. Lake 26, view from SW bank to the NE

Q1 Roaming Locations



Photo No. 47. Sample location 1A, view to the S



Photo No. 48. Sample location 1A, view from headwall to the W



Photo No. 49. Sample location BC-Pond, view to the N



Photo No. 50. Sample location BC-Pond, view to the W, note presence of ducks and cormorants



Photo No. 51. Sample location 22A



Photo No. 52. Sample location 4th Ave. Alley, view to the W



Photo No. 53. Sample location 4th Ave. Garage, view to the NW from entrance of vault



Photo No. 54. View of manhole street-side of sample location 4th Ave. Garage, view to the S



Photo No. 55. Sample location 11A, view of headwall, view to the W



Photo No. 56. Overlook above sample location 11A



Photo No. 57. Sample location GD, note sprinklers were not on at time of sample collection, sample taken from grate that discharges into curb inlet

Q3 Roaming Locations



Photo No. 58. Sample location CP, view into manhole, N is up



Photo No. 59. Sample location CP, view to the N



Photo No. 60. Sample location 22A3, view to the SE



Photo No. 61. Sample location 4th Ave. 3, view to the S



Photo No. 62. Sample location 1A3, view to the S



Photo No. 63. Sample location GD3, sampled near the E end of pond, view to the NE



Photo No. 64. Sample location GD3 sampled near the E end of pond, view to the NW



Photo No. 65. Sample location 24B



Photo No. 66. Lake 24, view from outfall to the SW



Photo No. 67. Lake 24, view from outfall to the NW, note flock of Ibis



Photo No. 68. Sample location Reuse 1 and Reuse 3



Photo No. 69. Sample location Reuse 2, view to the SW

Appendix D
Field Notes

Quarter 1

Lake ID #: 2B Lake Name: _____ Client: _____

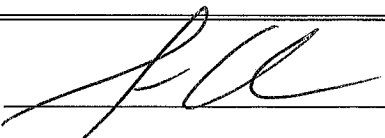
Date: 4/4 Time: 9:00 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.33		
pH (S.U.)	8.17		
Salinity (ppt)			
Conductivity (µS/cm)	462		
D.O. (ppm)	9.17		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments

Signature:  Date: 4/4/12

Field Team Leader: _____ Date: _____

Lake ID #: 1B Lake Name: _____ Client: _____

Date: 4/9 Time: 9:15 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.27		
pH (S.U.)	7.88		
Salinity (ppt)			
Conductivity (µS/cm)	508		
D.O. (ppm)	5.38		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
<u>Fluvial - same as 2B</u>

Signature: [Signature] Date: 4/9

Field Team Leader: _____ Date: _____

Lake ID #: JB Lake Name: _____ Client: _____

Date: 4/4 Time: 9:55 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.82		
pH (S.U.)	8.52		
Salinity (ppt)			
Conductivity (µS/cm)	422		
D.O. (ppm)	9.25		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
CO#: _____		

Comments
Algae bloom, including surface layer & surface kier, very green & particulate in nature filamentous

Signature: [Signature] Date: 4/4

Field Team Leader: _____ Date: _____

← actual algae filament length

Lake ID #: 15B Lake Name: _____ Client: _____

Date: 4/4 Time: _____ Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.59		
pH (S.U.)	8.66		
Salinity (ppt)			
Conductivity (µS/cm)	507		
D.O. (ppm)	7.55		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
cloudy, cant tell if it is algae or TSS/TDS.
Almost looks colloidal, greyish

Signature: [Signature] Date: 4/4

Field Team Leader: _____ Date: _____

Lake ID #: 16B Lake Name: _____ Client: _____

Date: 4/4 Time: 10:45 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.79		
pH (S.U.)	7.95		
Salinity (ppt)			
Conductivity (µS/cm)	409		
D.O. (ppm)	7.23		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
sampled @ headwell, lots of duct faces on the headwell & in the creek

Signature: [Signature] Date: 4/4

Field Team Leader: _____ Date: _____

PW

Lake ID #: _____ Lake Name: _____ Client: _____

Date: 4/4 Time: 11/30 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	26.85		
pH (S.U.)	7.20		
Salinity (ppt)			
Conductivity (µS/cm)	1430		
D.O. (ppm)	6.14		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
Water is very low - low input flow probably

Signature: [Signature] Date: 4/4/12

Field Team Leader: _____ Date: _____

Lake ID #: 19 Lake Name: _____ Client: _____

Date: 4/4 Time: 12:20 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles

Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.08		
pH (S.U.)	7.33		
Salinity (ppt)			
Conductivity (µS/cm)	1031		
D.O. (ppm)	5.25		

Water Sample Collection

Sample ID #: _____ Date: _____ Time: _____

Depth Sample Collected: _____ Method of Sample Collection: _____

of Sample Bottles: _____ Location of Sample Collection: _____

Parameters to be Analyzed: _____

COC#: _____

Comments

Signature: [Signature] Date: 4/4/12

Field Team Leader: _____ Date: _____

Lake ID #: 21 B Lake Name: _____ Client: _____

Date: 4/4 Time: 1320 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	29.38		
pH (S.U.)	8.02 7.86		
Salinity (ppt)			
Conductivity (µS/cm)	472		
D.O. (ppm)	8.02		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments

Signature: [Signature] Date: 4/4

Field Team Leader: _____ Date: _____

Lake ID #: 20 B Lake Name: _____ Client: _____

Date: 4/4 Time: 12:40 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	28.27		
pH (S.U.)	8.16		
Salinity (ppt)			
Conductivity (µS/cm)	540		
D.O. (ppm)	7.36		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
new outfall structure, there was a small trickle over the weir. Lake is green as usual

Signature: [Signature] Date: 4/4/12

Field Team Leader: _____ Date: _____

Lake ID #: 22A Lake Name: _____ Client: _____

Date: 4/4 Time: 1320 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)			
pH (S.U.)	7.16		
Salinity (ppt)	✓		
Conductivity (µS/cm)	701		
D.O. (ppm)	7.46 2.40		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
Base, healthy but SAV most likely causing the high DO

Signature: [Signature] Date: 4/4

Field Team Leader: _____ Date: _____

Lake ID #: 22B Lake Name: _____ Client: _____

Date: 4/4 Time: 1345 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	28.93		
pH (S.U.)	8.77 8.77		
Salinity (ppt)			
Conductivity (µS/cm)	466		
D.O. (ppm)	19.6		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
Dense & healthy stand of SAV causing high DO

Signature: [Signature] Date: 4/4/12

Field Team Leader: _____ Date: _____

Lake ID #: 60 Lake Name: _____ Client: _____

Date: 9/9 Time: 1410 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles

Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	29.37		
pH (S.U.)	7.65		
Salinity (ppt)			
Conductivity (µS/cm)	617		
D.O. (ppm)	6.00		

Water Sample Collection

Sample ID #: _____ Date: _____ Time: _____

Depth Sample Collected: _____ Method of Sample Collection: _____

of Sample Bottles: _____ Location of Sample Collection: _____

Parameters to be Analyzed: _____

COC#: _____

Comments

Signature: [Signature] Date: 9/17

Field Team Leader: _____ Date: _____

Lake ID #: 26 B Lake Name: _____ Client: _____

Date: 4/4 Time: 1430 Field Team: _____

Location: _____ Weather: 1

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.70		
pH (S.U.)	7.13		
Salinity (ppt)			
Conductivity (µS/cm)	496		
D.O. (ppm)	2.54		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
Sampled @ outfall structure inside the lake, no flow @ manhole

Signature: [Signature] Date: 4/4/12

Field Team Leader: _____ Date: _____

Lake looks healthy, has seagrass, good visibility (slightly
tanic) but very low DO. significant (40%) coverage of
lily pads

Lake ID #: Gordon Dr Lake Name: _____ Client: _____

Date: 4/5 Time: 0845 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	23.56		
pH (S.U.)	7.65		
Salinity (ppt)			
Conductivity (µS/cm)	1472		
D.O. (ppm)	3.96		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
<p>skined ~0.10 in the night before, but not flowing</p>

Signature: [Signature] Date: 4/5/12

Field Team Leader: _____ Date: _____

Lake ID #: 14 B Lake Name: _____ Client: _____

Date: 4/5 Time: 0905 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.70		
pH (S.U.)	7.90		
Salinity (ppt)			
Conductivity (µS/cm)	8072		
D.O. (ppm)	4.87		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
Flowing - sampled the overflow
Algae Not a lot of algae, if any bloom
at 9/1

Signature: _____ Date: _____

Field Team Leader: _____ Date: _____

Lake ID #: 14 Pump Lake Name: _____ Client: _____

Date: 4/5 Time: 0930 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	26.97		
pH (S.U.)	7.51		
Salinity (ppt)			
Conductivity (µS/cm)	7091		
D.O. (ppm)	4.99		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
<i>Just stopped flowing</i>

Signature: *[Signature]* Date: 4/5/12

Field Team Leader: _____ Date: _____

Lake ID #: 4th Ave Lake Name: _____ Client: _____

Date: 4/5 Time: 1000 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	24.70		
pH (S.U.)	7.24		
Salinity (ppt)			
Conductivity (µS/cm)	530		
D.O. (ppm)	0.31		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
<p> Tanker inside vault, just in the little pool in front of overflow structure. no flow @ sample time, rained ~0.10 inch the night before </p>

Signature: [Signature] Date: 4/5/12

Field Team Leader: _____ Date: _____

Lake ID #: 11A Lake Name: _____ Client: _____

Date: 4/5 Time: 1025 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.30		
pH (S.U.)	7.84		
Salinity (ppt)			
Conductivity (µS/cm)	635		
D.O. (ppm)	3.73		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
green water! probably a combination of algae & algicide, but very green

Signature: [Signature] Date: 4/5/12

Field Team Leader: _____ Date: _____

Lake ID #: 11B Lake Name: _____ Client: _____

Date: 7/5/12 Time: 1045 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles

Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.29		
pH (S.U.)	7.83		
Salinity (ppt)			
Conductivity (µS/cm)	622		
D.O. (ppm)	4.72		

Water Sample Collection

Sample ID #: _____ Date: _____ Time: _____

Depth Sample Collected: _____ Method of Sample Collection: _____

of Sample Bottles: _____ Location of Sample Collection: _____

Parameters to be Analyzed: _____

COC#: _____

Comments

water still green like 11A, just trickling through cracks in the weir

Signature: [Signature] Date: 7/5/12

Field Team Leader: _____ Date: _____

Lake ID #: 11 Pump Lake Name: _____ Client: _____

Date: 4/5 Time: 1145 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	25.05		
pH (S.U.)	7.09		
Salinity (ppt)			
Conductivity (µS/cm)	2928		
D.O. (ppm)	4.52		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments

Signature: [Signature] Date: 4/5/12

Field Team Leader: _____ Date: _____

Lake ID #: BC Lake Name: _____ Client: _____

Date: 4/5 Time: 1245 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles

Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.95		
pH (S.U.)	8.04		
Salinity (ppt)			
Conductivity (µS/cm)	1634		
D.O. (ppm)	6.91		

Water Sample Collection

Sample ID #: _____ Date: _____ Time: _____

Depth Sample Collected: _____ Method of Sample Collection: _____

of Sample Bottles: _____ Location of Sample Collection: _____

Parameters to be Analyzed: _____

COC#: _____

Comments

no flow @ time of sample,
 water level just below wet overflow

Signature: [Signature] Date: 4/5/12

Field Team Leader: _____ Date: _____

Lake ID #: 1A Lake Name: _____ Client: _____
 Date: 4/6 Time: 0745 Field Team: _____
 Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	26.57		
pH (S.U.)	7.49		
Salinity (ppt)			
Conductivity (µS/cm)	507		
D.O. (ppm)	4.35		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COCH#: _____		

Comments
sampled by inlet that receives flow from small pond to the E. Small pond not discharging @ time of sample

Signature: [Signature] Date: 4/6/12
 Field Team Leader: _____ Date: _____

Lake ID #: 3B Lake Name: _____ Client: _____

Date: 4/6 Time: 0815 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	26.15		
pH (S.U.)	7.64		
Salinity (ppt)			
Conductivity (µS/cm)	707		
D.O. (ppm)	5.81		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
Flowing over outfall structure @ time of sample

Signature: [Signature] Date: 4/6/12

Field Team Leader: _____ Date: _____

Lake ID #: 7B Lake Name: _____ Client: _____

Date: 4/6 Time: 0830 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles

Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	26.67		
pH (S.U.)	8.09		
Salinity (ppt)			
Conductivity (µS/cm)	1321		
D.O. (ppm)	4.20		

Water Sample Collection

Sample ID #: _____ Date: _____ Time: _____

Depth Sample Collected: _____ Method of Sample Collection: _____

of Sample Bottles: _____ Location of Sample Collection: _____

Parameters to be Analyzed: _____

COC#: _____

Comments

no flow

very green - good algae bloom

Signature: *ALL* Date: 4/6/12

Field Team Leader: _____ Date: _____

Lake ID #: 813 Lake Name: _____ Client: _____

Date: 4/6 Time: 0900 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.48		
pH (S.U.)	7.98		
Salinity (ppt)			
Conductivity (µS/cm)	860		
D.O. (ppm)	4.99		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
trickle of a flow going out of the outflow pipe. Not much algae, more tanic

Signature: _____ Date: _____

Field Team Leader: _____ Date: _____

Lake ID #: 9B Lake Name: _____ Client: _____
 Date: 4/6 Time: 0915 Field Team: _____
 Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	26.8		
pH (S.U.)	8.24		
Salinity (ppt)			
Conductivity (µS/cm)	802		
D.O. (ppm)	5.44		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COCH#: _____		

Comments
minimal algae, mostly the fibrous/filamentous floaty type, water is blueish, algaecide of some type probable

Signature: [Signature] Date: 4/6/12

Field Team Leader: _____ Date: _____

Lake ID #: Alley Lake Name: _____ Client: _____
Date: 4/6 Time: 1000 Field Team: _____
Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	22.83		
pH (S.U.)	8.28		
Salinity (ppt)			
Conductivity (µS/cm)	47		
D.O. (ppm)	7.12		

Water Sample Collection		
Sample ID #:	Date:	Time:
Depth Sample Collected:	Method of Sample Collection:	
# of Sample Bottles:	Location of Sample Collection:	
Parameters to be Analyzed:		
COC#:		

Comments
Just rained!

Signature: [Signature] Date: 4/6/12
Field Team Leader: _____ Date: _____

Lake ID #: DB Lake Name: _____ Client: _____

Date: 4/6 Time: 0945 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	26.30		
pH (S.U.)	7.73		
Salinity (ppt)			
Conductivity (µS/cm)	9660		
D.O. (ppm)	3.30		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments

Signature: _____ Date: _____

Field Team Leader: _____ Date: _____

Quarter 2

Initial Calibration

Date: 7/05/12

Time: 1125

Performed By: T. Bates

Post Verification

Date: 7/05/12

Time: 1840

Performed By: _____

Initial Calibration				
Parameter	Standard	Units	Initial Meter Reading	Calibrated Meter Reading
pH 1st	4.00		3.97	4.00
	10.00		9.90	9.99
	7.00		6.96	7.00
Conductivity	8974	μS	8588	8974
	% Sat		88.4	100.1
DO				

Post Verification				
Parameter	Standard	Units	Initial Meter Reading	Calibrated Meter Reading
pH	4.00		3.93	4.00
	10.00		9.88	9.98
Conductivity	7.00		7.08	7.00
	8974	μS	9022	8975
DO	% Sat		105.7	100.1

Comments: Instrument shut down, Restarted at 1820. Heavy Rain
& FedEx

Prepared by Signature:

Field Team leader: _____

Lake ID #: 14-PUMP Lake Name: _____ Client: _____

Date: 7/05/12 Time: 1130 Field Team: TOM BATES

Location: Lantern Ln Pumps Weather: Sunny

Water Quality Depth Profiles

Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	29.98		
pH (S.U.)	7.51		
Salinity (ppt)			
Conductivity (µS/cm)	8755		
D.O. (ppm)	4.63 (62.5%)		

Water Sample Collection

Sample ID #: 14 PUMP Date: 7/05/12 Time: 1145

Depth Sample Collected: _____ Method of Sample Collection: Disposable Poly Bailer

of Sample Bottles: _____ Location of Sample Collection: Pit

Parameters to be Analyzed: _____

COC#: _____

Comments

Pump started running during sample collection, after field measurements.

Signature: [Signature] Date: 7/05/12

Field Team Leader: _____ Date: _____

Lake ID #: 11-PUMP Lake Name: _____ Client: _____

Date: 7/05/12 Time: 1230 Field Team: Tom Bates

Location: Broad St. Pump Weather: Mostly sunny

Water Quality Depth Profiles

Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.57		
pH (S.U.)	7.27		
Salinity (ppt)			
Conductivity (µS/cm)	1490		
D.O. (ppm)	3.11 (39.3 %)		

Water Sample Collection

Sample ID #: 11 PUMP Date: 7/05/12 Time: 1230

Depth Sample Collected: _____ Method of Sample Collection: Disposable Poly Bailer

of Sample Bottles: _____ Location of Sample Collection: well pit

Parameters to be Analyzed: _____

COC#: _____

Comments

Pump did not run while on-site.

Signature: [Signature] Date: 7/05/12

Field Team Leader: _____ Date: _____

Lake ID #: PW - Pump Lake Name: _____ Client: _____

Date: 7/05/12 Time: 1320 Field Team: Tom Bates

Location: Public Works Pumps Weather: Sunny then clouding up - approaching rain
No precipitation while on-site

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	28.55		
pH (S.U.)	7.14		
Salinity (ppt)			
Conductivity (µS/cm)	7072		
D.O. (ppm)	3.96 (51.1%)		

Water Sample Collection	
Sample ID #: <u>RB PW PUMP</u>	Date: <u>7/05/12</u> Time: <u>1340</u>
Depth Sample Collected: _____	Method of Sample Collection: <u>Disposable Poly Bag</u>
# of Sample Bottles: _____	Location of Sample Collection: <u>Pit</u>
Parameters to be Analyzed: _____	
COC#: _____	

Comments
<u>Pump did not run while sampling or collecting parameters. Gate was locked - called storm water.</u>
<u>We do have key, it is the same. They changed to matching locks</u>

Signature: [Signature] Date: 7/05/12

Field Team Leader: _____ Date: _____

Quarter 3

FIELD EQUIPMENT CALIBRATION RECORDS

Rental
 Project Name: *6063120207*

PROJECT INFORMATION

Calibration Date: *9/25*

CALIBRATION DATA

Instrument Description	ID # or Serial #	Parameter Description	Time	Standard Value	Standard Reference #	Reading	Units	Comments
YSI 566 MULTIMETER		DO		Sat. air/water	NA	<i>102.5</i>	% mg/L	
		pH		4.0			pH	
		pH		7.0		<i>7.11</i>	pH	
		pH		10.0		<i>10.03</i>	pH	
		SPECIFIC COND.					µS/cm ^c	
		ORP					mV	
YSI 566 MULTIMETER		DO		Sat. air/water	NA		% mg/L	
		pH		4.0			pH	
		pH		7.0			pH	
		pH		10.0			pH	
		SPECIFIC COND.					µS/cm ^c	
		ORP					mV	
STANDARDS:	Reference #	Manuf./ Batch #				Exp. Date		

SIGNATURES (Signed Initials)

Calibrated by: _____ Date: _____
 Reviewed by: _____ Date: _____

Rental

FIELD EQUIPMENT CALIBRATION RECORDS

Project Name: 603120207

PROJECT INFORMATION

Project & Task #: ~~603120207~~ Calibration Date: 9/25/12

CALIBRATION DATA

Instrument Description	ID # or Serial #	Parameter Description	Time	Standard Value	Standard Reference #	Reading	Units	Comments
YSI 566 MULTIMETER		DO	1600	Sat. air/water	NA	98.2	% mg/L	
		pH	1600	4.0			pH	
		pH	1600	7.0	7.0	6.86	pH	
		pH	1600	10.0	10.0	10.01	pH	
		SPECIFIC COND.					µS/cm ^c	
		ORP					mV	
YSI 566 MULTIMETER		DO		Sat. air/water	NA		% mg/L	
		pH		4.0			pH	
		pH		7.0			pH	
		pH		10.0			pH	
		SPECIFIC COND.					µS/cm ^c	
		ORP					mV	
STANDARDS:	Reference #	Manuf./ Batch #		Manuf./ Batch #		Exp. Date		

SIGNATURES (Signed Initials)

Calibrated by: _____ Date: _____ Reviewed by: _____ Date: _____

Lake ID #: 1A3 Lake Name: _____ Client: _____

Date: 9/25 Time: 9:30 Field Team: SCA/TDB

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	<u>28.46</u>		
pH (S.U.)	<u>6.84</u>		
Salinity (ppt)			
Conductivity (µS/cm)	<u>411</u>		
D.O. (ppm)	111 <u>0.85</u>		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
<u>No flow</u>

Signature: [Signature] Date: 9/25

Field Team Leader: _____ Date: _____

Lake ID #: 1B Lake Name: _____ Client: _____

Date: 9/25 Time: 9:15 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.33		
pH (S.U.)	7.31		
Salinity (ppt)	7.31		
Conductivity (µS/cm)	453		
D.O. (ppm)	4.81		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
sampled 50' E of weir on S bank to avoid weed influence

Signature: [Signature] Date: 9/25/10

Field Team Leader: _____ Date: _____

Lake ID #: 2B Lake Name: _____ Client: _____

Date: 9/25 Time: 10:30 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.54		
pH (S.U.)	7.29		
Salinity (ppt)			
Conductivity (µS/cm)	1718		
D.O. (ppm)	4.52		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
flow through weir but not over, lots of algae mats on surface

Signature: [Signature] Date: 9/25

Field Team Leader: _____ Date: _____

Lake ID #: 3B Lake Name: _____ Client: _____

Date: 9/25 Time: 11:00 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.35		
pH (S.U.)	7.16		
Salinity (ppt)			
Conductivity (µS/cm)	877		
D.O. (ppm)	4.74		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
<u>Flowing @ time of sample</u>

Signature: [Signature] Date: 9/25

Field Team Leader: _____ Date: _____

Lake ID #: SB Lake Name: _____ Client: _____

Date: 9/25 Time: 11:15 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	28.48		
pH (S.U.)	7.17		
Salinity (ppt)			
Conductivity (µS/cm)	411		
D.O. (ppm)	3.35		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COCH#: _____		

Comments
Flowing, recently trimmed the pepper, not too much visible algae (not green this time)

Signature: [Signature] Date: 9/25/12

Field Team Leader: _____ Date: _____

Lake ID #: 15B Lake Name: _____ Client: _____

Date: 9/25 Time: 11:30 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	28.66		
pH (S.U.)	7.83		
Salinity (ppt)			
Conductivity (µS/cm)	477		
D.O. (ppm)	6.56		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COCH#: _____		

Comments
ducks feces on sidewalk, lake is tannic but no visible algal bloom. Ducks in yard near outflow (see picture)

Signature: [Signature] Date: 9/25

Field Team Leader: _____ Date: _____

Lake ID #: 16B Lake Name: _____ Client: _____

Date: 9/25 Time: 11:45 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	28.01		
pH (S.U.)	7.29		
Salinity (ppt)			
Conductivity (µS/cm)	468		
D.O. (ppm)	1.43		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
<i>lots of docks in vicinity (see photos)</i>

Signature: *[Signature]* Date: 9/25

Field Team Leader: _____ Date: _____

Lake ID #: 19B Lake Name: _____ Client: _____

Date: 9/25 Time: 12:00 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	28.33		
pH (S.U.)	7.61		
Salinity (ppt)	8		
Conductivity (µS/cm)	554		
D.O. (ppm)	8.04		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
Water slightly green & cloudy, flowing @ time of sample, large stand of cattail in front of area, algal activity (see DO)

Signature: [Signature] Date: 9/25/12

Field Team Leader: _____ Date: _____

Lake ID #: 6B Lake Name: _____ Client: _____

Date: 9/25 Time: 12:45 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	28.19		
pH (S.U.)	7.15		
Salinity (ppt)			
Conductivity (µS/cm)	621		
D.O. (ppm)	14.47		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
Flowing slow through V-notch, no visible algae bloom

Signature: [Signature] Date: 9/25

Field Team Leader: _____ Date: _____

Lake ID #: 203 Lake Name: _____ Client: _____

Date: 9/25 Time: 1300 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	28.39		
pH (S.U.)	7.50		
Salinity (ppt)			
Conductivity (µS/cm)	457		
D.O. (ppm)	4.23		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
green - algae algae bloom, flowing

Signature: [Signature] Date: 9/25

Field Team Leader: _____ Date: _____

Lake ID #: 21B Lake Name: _____ Client: _____

Date: 9/25 Time: 1330 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	28.54		
pH (S.U.)	7.22		
Salinity (ppt)			
Conductivity (µS/cm)	430		
D.O. (ppm)	4.14		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
no flow, water below outfall structure, ducks, algae along the surface littoral zone, no visible bloom

Signature: [Signature] Date: 9/25

Field Team Leader: _____ Date: _____

Lake ID #: 22A3 Lake Name: _____ Client: _____

Date: 9/25 Time: 1400 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	28.05		
pH (S.U.)	6.96		
Salinity (ppt)			
Conductivity (µS/cm)	506		
D.O. (ppm)	.88		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: <u>Pump</u>	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
<u>dockweed, not mud algae, no flow</u>

Signature: [Signature] Date: 9/25

Field Team Leader: _____ Date: _____

Lake ID #: 22B Lake Name: _____ Client: _____

Date: 9/25 Time: 1430 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.67		
pH (S.U.)	6.93		
Salinity (ppt)			
Conductivity (µS/cm)	589		
D.O. (ppm)	2.02		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
just cleared vegetation surrounding outflow structure, flowing, no visible bloom

Signature: [Signature] Date: 9/25

Field Team Leader: _____ Date: _____

Lake ID #: PW-Pump Lake Name: _____ Client: _____

Date: 9/25 Time: 1445 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles

Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	28.09		
pH (S.U.)	7.19		
Salinity (ppt)			
Conductivity (µS/cm)	1486		
D.O. (ppm)	4.56		

Water Sample Collection

Sample ID #: _____ Date: _____ Time: _____

Depth Sample Collected: _____ Method of Sample Collection: _____

of Sample Bottles: _____ Location of Sample Collection: _____

Parameters to be Analyzed: _____

COC#: _____

Comments

no flow, could hear one pipe discharging into sump upstream

Signature: [Signature] Date: 9/25

Field Team Leader: _____ Date: _____

Lake ID #: Reuse 2 Lake Name: _____ Client: _____

Date: 9/25 Time: 1500 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	30.37		
pH (S.U.)	6.9		
Salinity (ppt)			
Conductivity (µS/cm)	1045		
D.O. (ppm)	6.45		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
<u>taken from spicket @ 1 plot</u>

Signature: _____ Date: _____

Field Team Leader: _____ Date: _____

Lake ID #: 7B Lake Name: _____ Client: _____

Date: 9/26 Time: 730 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.73		
pH (S.U.)	8.49		
Salinity (ppt)			
Conductivity (µS/cm)	1240		
D.O. (ppm)	8.79		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
Discharge located @ NW side of lake, sample taken by casting boiler 15-20' into the lake, shallow @ shore but deeper in middle

Signature: [Signature] Date: 9/26

Field Team Leader: _____ Date: _____

Lake ID #: 813 Lake Name: _____ Client: _____

Date: 9/26 Time: 800 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.51		
pH (S.U.)	7.22		
Salinity (ppt)			
Conductivity (µS/cm)	660		
D.O. (ppm)	3.76 4.22		

Water Sample Collection	
Sample ID #: _____	Date: _____ Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____
# of Sample Bottles: _____	Location of Sample Collection: _____
Parameters to be Analyzed: _____	
COC#: _____	

Comments
Small flow, discharge structure had 12' of algae mat / vegetation in front of it. Sampled from discharge structure. 2 fleshy iskuks at

4 veg cover
3 can d'ita

Signature: [Signature] Date: 9/26

Field Team Leader: _____ Date: _____

Lake ID #: 9B Lake Name: _____ Client: _____

Date: 9/26 Time: 830 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.1		
pH (S.U.)	7.32		
Salinity (ppt)			
Conductivity (µS/cm)	651		
D.O. (ppm)	4.51		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
CO#: _____		

Comments
no visible flow, however large algal mat blocking discharge structure, sample taken ~10' from shore

Signature: [Signature] Date: 9/26

Field Team Leader: _____ Date: _____

Lake ID #: 10B Lake Name: _____ Client: _____

Date: 9/26 Time: 900 Field Team: _____

Location: _____ Weather: _____

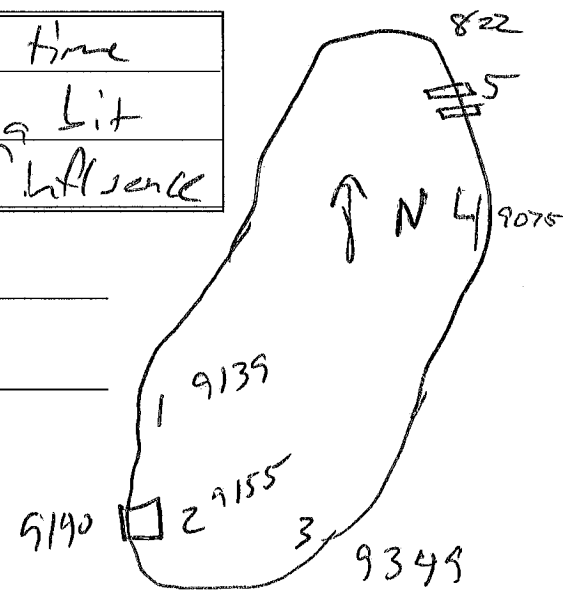
Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.42		
pH (S.U.)	6.81		
Salinity (ppt)			
Conductivity (µS/cm)	9139		
D.O. (ppm)	6.34 6.34		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
casted bailette. water discharging @ time of sample, but moved upstream a bit along the S bank to avoid Gulf influence

Signature: [Signature] Date: 9/26

Field Team Leader: _____ Date: _____



Lake ID #: 11B Lake Name: _____ Client: _____

Date: 9/26 Time: 11:30 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.43		
pH (S.U.)	5.88		
Salinity (ppt)			
Conductivity (µS/cm)	533		
D.O. (ppm)	2.41		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
1 cecator & 1 FI in East Lake. Flowing. 3
cecatars in Sp. Lake, no FI. algal mats in Sp. Lake,
no bloom

EL FI cover 5
type 1 2
condition 4

Signature: _____ Date: _____

Field Team Leader: _____ Date: _____

Lake ID #: 11 - Pump Lake Name: _____ Client: _____

Date: 9/26/12 Time: 0945 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles

Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.72		
pH (S.U.)	6.51		
Salinity (ppt)			
Conductivity (µS/cm)	1331		
D.O. (ppm)	6.01		

Water Sample Collection

Sample ID #: _____ Date: _____ Time: _____

Depth Sample Collected: _____ Method of Sample Collection: _____

of Sample Bottles: _____ Location of Sample Collection: _____

Parameters to be Analyzed: _____

COC#: _____

Comments

flowing, work done upstream & dewatering into swale ~ 1/2 mile up Broad St.

Signature: _____ Date: _____

Field Team Leader: _____ Date: _____

Lake ID #: ~~EBP~~ CP Lake Name: _____ Client: _____

Date: 9/26 Time: 1045 Field Team: _____

Location: _____ Weather: _____

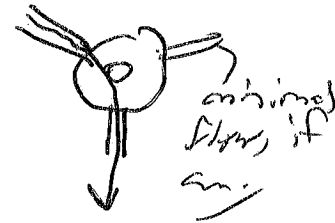
Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	28.38		
pH (S.U.)	6.13		
Salinity (ppt)			
Conductivity (µS/cm)	766		
D.O. (ppm)	4.12		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COCH#: _____		

Comments
Flowing

Signature: _____ Date: _____

Field Team Leader: _____ Date: _____



Lake ID #: 29 14B Lake Name: _____ Client: _____

Date: 9/26 Time: 1100 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.58		
pH (S.U.)	5.91		
Salinity (ppt)			
Conductivity (µS/cm)	7529		
D.O. (ppm)	2.73		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
Flowing, algae (more cloudy than particulate), ducks. 1 FI near discharge

Signature: [Signature] Date: 9/26

Field Team Leader: _____ Date: _____

Sanders
941-809-0991

FI 2
 cover 4
 type 5
 condition 4

FI 2 (west side)
 cover 4
 type 5
 condition 5

Lake ID #: 14-Rmp Lake Name: _____ Client: _____

Date: 7/26 Time: 1115 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.75		
pH (S.U.)	7.15		
Salinity (ppt)			
Conductivity (µS/cm)	30706		
D.O. (ppm)	4.15		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
pump turned on while sampling, flow

Signature: [Signature] Date: 7/26

Field Team Leader: _____ Date: _____

Lake ID #: G73 Lake Name: _____ Client: _____

Date: 9/26 Time: 1145 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.72		
pH (S.U.)	7.0 7.14		
Salinity (ppt)			
Conductivity (µS/cm)	8730		
D.O. (ppm)	4.37		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
<p><u>372</u> 2-3" pipe (cast iron) flowing, not high flow. Sample taken from casted biter, no visible algae, healthy littoral zone</p>

Signature: [Signature] Date: 9/26

Field Team Leader: _____ Date: _____

Lake ID #: Ruse 2 Lake Name: _____ Client: _____

Date: 9/26 Time: 1230 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	28.87		
pH (S.U.)	6.74		
Salinity (ppt)			
Conductivity (µS/cm)	1054		
D.O. (ppm)	6.90		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
<u>Spicket on Gordon drive just S of 3700.</u>
<u>Spicket on W side of St.</u>

Signature: [Signature] Date: 9/26

Field Team Leader: _____ Date: _____

Lake ID #: 24B Lake Name: _____ Client: _____

Date: 9/26 Time: 1245 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.9		
pH (S.U.)	8.07		
Salinity (ppt)			
Conductivity (µS/cm)	1293		
D.O. (ppm)	4.76		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
flowing @ time of sample. lots of birds.

Signature: [Signature] Date: 9/26

Field Team Leader: _____ Date: _____

Lake ID #: 4R Ave 3 Lake Name: _____ Client: _____

Date: 9/26 Time: 1300 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	<u>27.08</u>		
pH (S.U.)	<u>6.92</u>		
Salinity (ppt)			
Conductivity (µS/cm)	<u>653</u>		
D.O. (ppm)	0.41 <u>0.41</u>		

Water Sample Collection		
Sample ID #: _____	Date: _____	Time: _____
Depth Sample Collected: _____	Method of Sample Collection: _____	
# of Sample Bottles: _____	Location of Sample Collection: _____	
Parameters to be Analyzed: _____		
COC#: _____		

Comments
<u>very small flow, sampled w/ pump</u>

Signature: [Signature] Date: 9/26

Field Team Leader: _____ Date: _____

Lake ID #: 26B Lake Name: _____ Client: _____

Date: 9/27 Time: 0730 Field Team: _____

Location: _____ Weather: _____

Water Quality Depth Profiles			
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	26.31		
pH (S.U.)	— probe malfunction		
Salinity (ppt)			
Conductivity (µS/cm)	536		
D.O. (ppm)	1.19		

Water Sample Collection		
Sample ID #:	Date:	Time:
Depth Sample Collected:	Method of Sample Collection:	
# of Sample Bottles:	Location of Sample Collection:	
Parameters to be Analyzed:		
COC#:		

Comments
pH probe stopped working. Water flowing. Ducks

Signature: [Signature] Date: 9/27

Field Team Leader: _____ Date: _____

Quarter 4

Lake ID #: 14-PUMP Lake Name: _____ Client: _____

Date: 12/6/12 Time: 1013 Field Team: Tom Bates

Location: Lantern Ln. Weather: Low 70's partly sunny

Water Quality Depth Profiles

Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	22.79		
pH (S.U.)	7.06		
Salinity (ppt)			
Conductivity (µS/cm)	1148		
D.O. (ppm)	4.53 (58.2%)		

Water Sample Collection

Sample ID #: 14-PUMP Date: 12/6/12 Time: 1015

Depth Sample Collected: _____ Method of Sample Collection: Disposable Poly Bailer

of Sample Bottles: _____ Location of Sample Collection: _____

Parameters to be Analyzed: _____

COC#: _____

Comments

Pump just finished running

Signature: [Signature] Date: 12/6/12

Field Team Leader: _____ Date: _____

Lake ID #: 11-PUMP Lake Name: _____ Client: _____

Date: 12/6/12 Time: 1103 Field Team: T. Bates

Location: Broad St. Pump Weather: Mid 70's, Partly cloudy

Water Quality Depth Profiles

Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	25.49		
pH (S.U.)	7.08		
Salinity (ppt)			
Conductivity (µS/cm)	2084		
D.O. (ppm)	4.25 (521%)		

Water Sample Collection

Sample ID #: 11-PUMP Date: 12/6/12 Time: 11:15

Depth Sample Collected: _____ Method of Sample Collection: Disposable Poly Bailor

of Sample Bottles: _____ Location of Sample Collection: _____

Parameters to be Analyzed: _____

COC#: _____

Comments

Pump did not run while at this site.

Signature: T. Bates Date: 12/6/12

Field Team Leader: _____ Date: _____

Lake ID #: PW-PUMP Lake Name: _____ Client: _____

Date: 12/6/12 Time: 12:35 Field Team: T. Bates

Location: Public Works Weather: 77° Partly cloudy

Water Quality Depth Profiles

Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	26.36		
pH (S.U.)	7.07		
Salinity (ppt)			
Conductivity (µS/cm)	3314		
D.O. (ppm)	3.76 (47%)		

Water Sample Collection

Sample ID #: PW-PUMP Date: 12/6/12 Time: 12:45

Depth Sample Collected: _____ Method of Sample Collection: _____

of Sample Bottles: _____ Location of Sample Collection: _____

Parameters to be Analyzed: _____

COC#: _____

Comments

Signature: Date: 12/6/12

Field Team Leader: _____ Date: _____

Lake ID #: REUSE 3 Lake Name: _____ Client: _____

Date: 12/6/12 Time: 1420 Field Team: T. Bates

Location: Plant Weather: 70s Partly sunny

Water Quality Depth Profiles

Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	25.59		
pH (S.U.)	6.97		
Salinity (ppt)			
Conductivity (µS/cm)			
D.O. (ppm)	7.96 (97.7%)		

Water Sample Collection

Sample ID #: REUSE 3 Date: 12/6/12 Time: 1425

Depth Sample Collected: _____ Method of Sample Collection: DIRECT

of Sample Bottles: _____ Location of Sample Collection: _____

Parameters to be Analyzed: _____

COC#: _____

Comments

Sampled middle valve (#92) on the right (east) sink. Water may be aerated

Signature: T. Bates Date: 12/6/12

Field Team Leader: _____ Date: _____

Initial Calibration

Post Verification

Date: 12/6/12

Date: 12/6/12

Time: 09:45

Time: 17:00

Performed By: T. Bates

Performed By: T. Bates

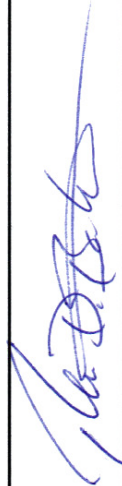
Initial Calibration				
Parameter	Standard	Units	Initial Meter Reading	Calibrated Meter Reading
pH	7.00	std	7.07	7.00
	4.008	std	3.94	4.00
	10.00	std	9.93	9.99
Conductivity	1413		1200	1408
	Sat	%	129.6	100.4
DO				

Post Verification				
Parameter	Standard	Units	Initial Meter Reading	Calibrated Meter Reading
pH	4		3.98	
	7		6.99	
	10		9.96	
Conductivity	1413		1703	
DO				

Comments:

Meter had shot down before post verification

Prepared by Signature: _____



Field Team leader: _____