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.

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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 \geq 3.7 micrograms per liter (μ g/L) fecal coliform is > 43 colony forming units (CFU)/100 milliliters (mL), iron is > 0.3 milligrams per liter (μ g/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)
	Untreated effluent	7,000-73,000
Buerge, <i>et al.</i> (2003)	Untreated effluent Treated effluent Lakes and rivers Mountain lakes rivers Treated effluent 0 (2005) Stormwater Treated effluent Surface water affected by effluent Surface water no effluent	30-9,300
buerge, et al. (2003)	Lakes and rivers	60-250
	Mountain lakes	< 2
Glassmeyer, et al. (2005)	rivers	40-2,600
Glassifieyer, et al. (2003)	Treated effluent	53-7,990
Sankararamakrishnan and Guo (2005)	Stormwater	144-44,700
	Treated effluent	127
Oppenheimer, et. al. (2011)	Surface water affected by effluent	64
	Surface water no effluent	ND
Kolpin, et al. (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 nonstructural 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

Sampl		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)
	Q1	1.1	0.22 l	1.3	0.069	2.8	2.0	3400	870	14 I
PW-	Q2	0.92	0.27	1.2	0.080	7.6	8.2 V	1980 B	500	
Pump	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	
	Q1	1.2	0.41 l	1.6	0.12	3.6	1.7 I V	9910 B	1730	150
11-	Q2	1.3	0.22	1.5	0.14	4.0	2.9	112000 B	200	630
Pump	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 l	450 B	501	50 U
	Q1	0.88	0.18 I	1.1	0.83	4.8	2.9 V	4000	300	32 I
14-	Q2	0.86	.047 I	0.91	0.15	54	45 V	1350 B	1200	
Pump	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
- Indicates the reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
- Caffeine not analyzed in all samples

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 nonstructural 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.

> 3-1 **AMEC**

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Table 3-2. 2012 Biannual Lakes Condition Assessment

Sample ID		TKN	NOx	TN	TP	TSS	Cu	FC	Ent.	Caf.*
Unit		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(µg/L)	(cfu/10 0 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	
OD	Q1	1.2	0.10 U	1.2	0.10	8.8	12	180 B	461	
2B	Q3	0.85	0.10 U	0.85	0.045	6.4	6.2	1840 B	961	
0.0	Q1	1.1	0.10 U	1.1	0.11	4.8	5.6	1440 B	140	
3B	Q3	1.0	0.10 U	1.0	0.13	5.2	2.8	259 B	47	
	Q1	5.3	0.10 U	5.3	0.42	17	10	270 B	84	
5B	Q3	0.89	0.10 U	0.89	0.12	4.8	3.0	310	7	
CD	Q1	0.83	0.10 U	0.83	0.048	2.4	0.63 l	100 U	9	
6B	Q3	1.2	0.10 U	1.2	0.13	11	0.46 I	5200	101	
70	Q1	3.7	0.10 U	3.7	0.17	18	6.0	100 U	118	
7B	Q3	1.6	0.10 U	1.6	0.084 J3	24	20	15 B	27	
OD	Q1	1.3	0.10 U	1.3	0.060	6.8	4.9	100 U	270	
8B	Q3	1.4	0.10 U	1.4	0.077	9.2	1.7 l	162 B	51	
ΔD	Q1	1.3	0.10 U	1.3	0.17	6	11	100 U	34	
9B	Q3	1.1	0.10 U	1.1	0.047	16.0	3.1	66	49	
10D	Q1	1.6	0.10 U	1.6	0.095	9.6	1.9 I	721 B	182	
10B	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	
IID	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
140	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	
100	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	
100	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 l	180 B	313	
190	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	
206	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	
ZID	Q3	0.67	0.10 U	0.67 I	0.022	6.4	1.9 l	492	24	
22B	Q1	0.85	0.10 U	0.85	0.0091 I	1.2	1.1	100 U	8	
226	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	
20D	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

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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

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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.

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 l	1.1	0.18	36	6.2	2160 B	100 U	550
4th Ave. Garage	Q1	0.31	0.10 U	0.31 l	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 l	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 l	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

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B - Results based upon colony counts outside the acceptable range

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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.

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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.

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)

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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)

	Sample	ID	•	TN¹	TP	Cu	FC	Ent.	Caff. ²
Basin	Sample ID	Туре	(n)	mg/L	mg/L	μg/L	cfu/100mL	MPN	ng/L
	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	
0 1	6B	Lake - Effluent	3	1.1	0.069	5.0	1308	15	
Gordon River	15B	Lake - Effluent	7	1.0	0.023	15	224	46	
Kivei	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	

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

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

	Sample	ID		TN¹	TP	Cu	FC	Ent.	Caff. ²
Basin	Sample ID	Туре	(n)	mg/L	mg/L	μg/L	cfu/100mL	MPN	ng/L
	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
Monloo	4th Ave. Alley	Conveyance	1	1.1	0.18	6.2	2160	100	550
Naples Bay	4th Ave. Garage	Conveyance	1	0.31	0.057	2.9	100	6	
Бау	СР	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

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

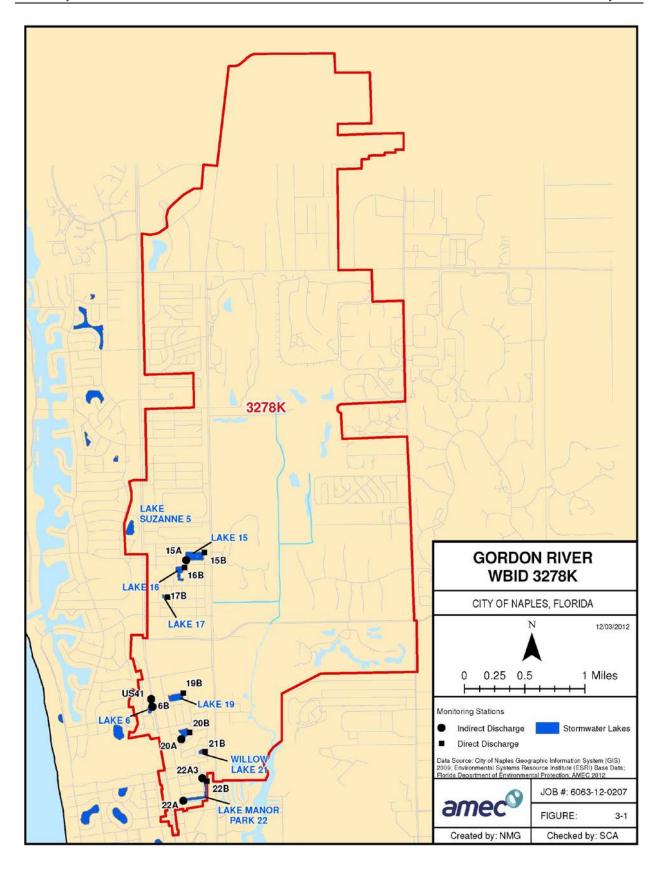
	Sample	ID	<u> </u>	TN¹	TP	Cu	FC	Ent.	Caff. ²
Basin	Sample ID	Туре	(n)	mg/L	mg/L	μg/L	cfu/100mL	MPN	ng/L
	1A3	Conveyance	1	0.71	0.13	3.3	673	152	
	1A	Lake - Influent	1	1.1	0.10	9.6	180	96	
	2A	Lake - Influent	4	1.2	0.11	25	414	455	
	5A	Lake - Influent	4	1.1	0.18	6.7	97	52	
Mooringo	1NW-B	Lake - Effluent	2	0.98	0.026	6.7	120	8	
Moorings Bay	1SE-B	Lake - Effluent	2	0.98	0.062	14	152	14	
Day	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	Туре	(n)	mg/L	mg/L	μg/L	cfu/100mL	MPN	ng/L
	ВС	Conveyance	4	3.1	0.26	5.2	791	105	
	BC-Pond	Private Lake	1	2.5	0.27	6.5	100	961	
0 11 1	8A	Lake - Influent	4	1.3	0.16	1.5	784	144	
Gulf of Mexico	7B	Lake - Effluent	2	2.7	0.13	13	39	56	
IVICAICO	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	

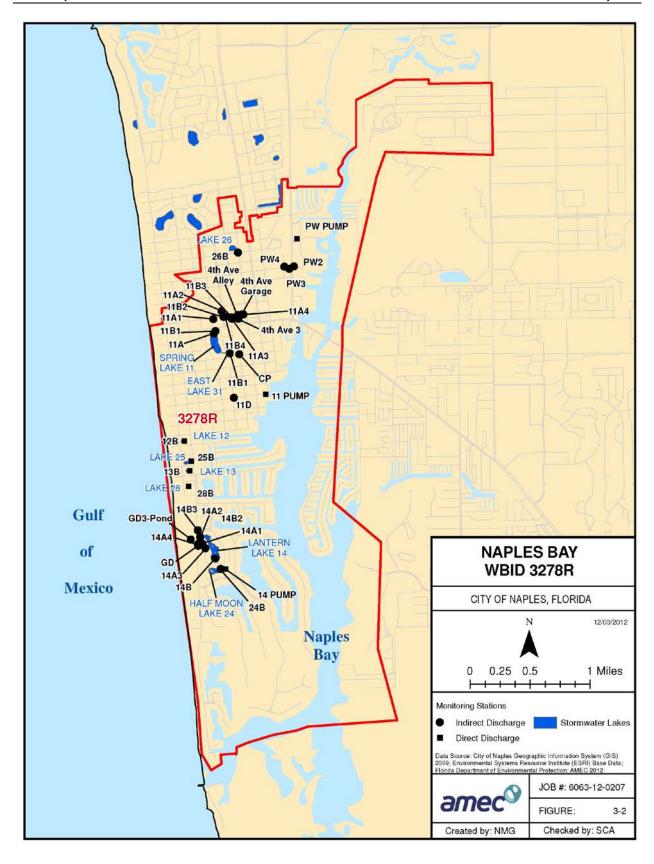
Bold = Direct Discharge

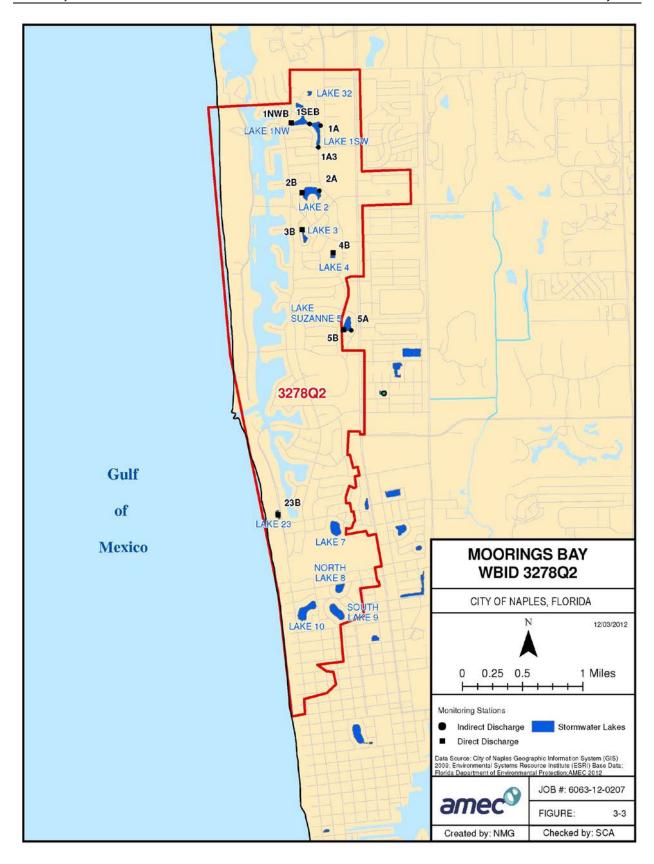
¹Calculated as the sum of NOx and TKN ²(n) = 3 for 11-Pump Caffeine, (n) = 1 for all other caffeine results Caffeine was not analyzed in all samples.

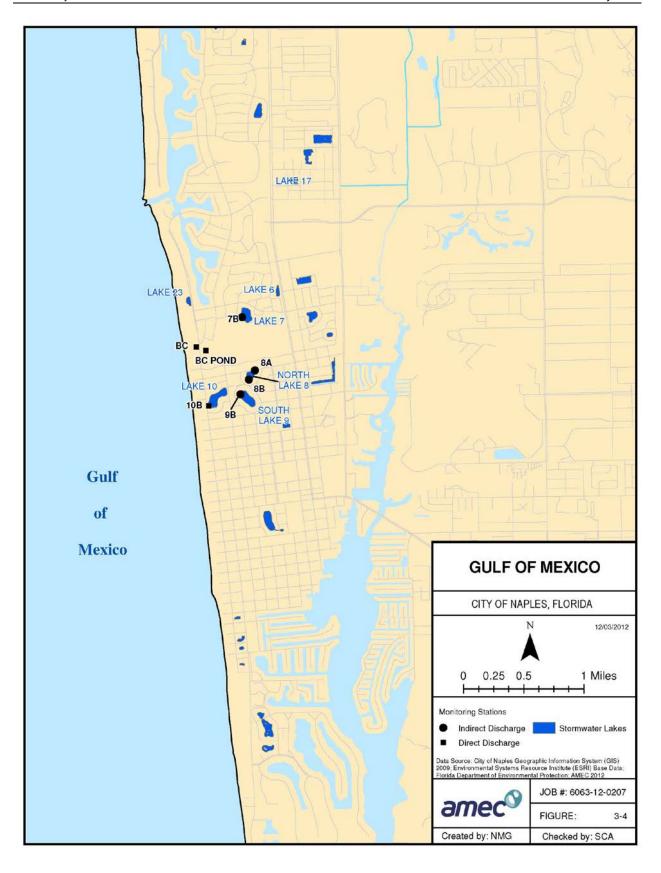
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AMEC 3-6









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

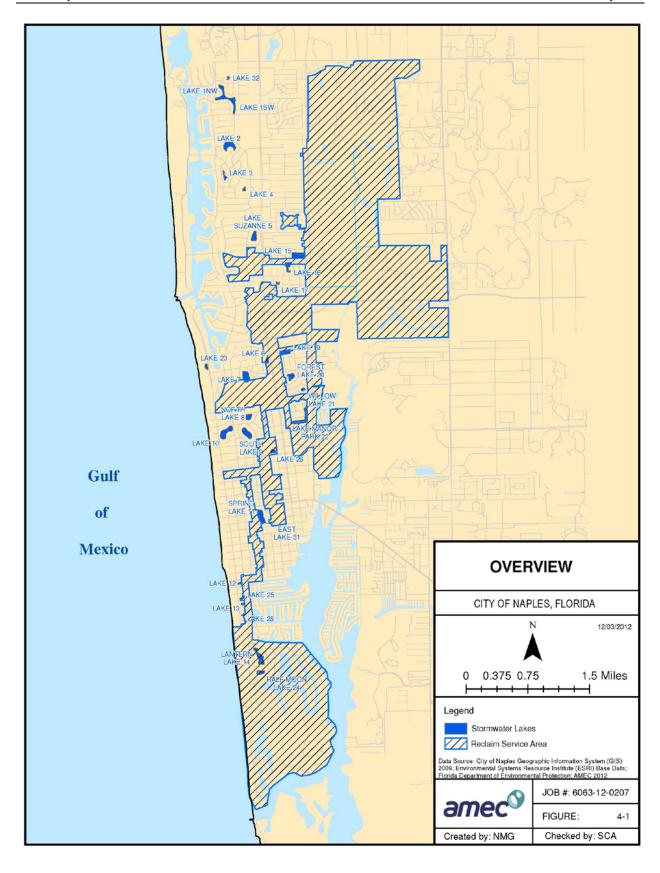
in nutrient mass loading to downstream waterbodies. A public outreach program that focuses on the following details would provide an effective first step in educating the public about the inherent benefits associated with reclaimed water irrigation, and how it can be implemented to reduce costs to both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

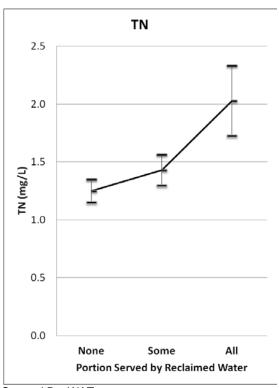
For the second part of the reclaimed water analysis, the current reclaimed water service area was obtained from the City of Naples Geographic Information System database and crossed with the monitoring locations and results discussed in Section 3. Figure 4-1 shows the coverage of the reclaimed water 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.

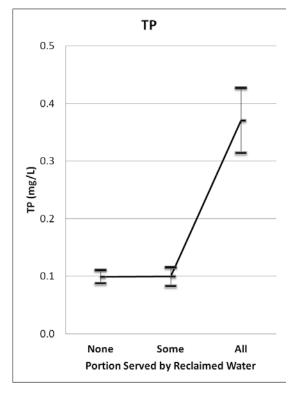
4-3 AMEC



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		
Sample Set			None	All	
All Sample Locations	TN	mg/L	1.2 ± 0.10	2.0 ± 0.30	
All Sample Locations	TP	mg/L	0.10 ± 0.011	0.37 ± 0.056	
Lake Effluent Comple Legations	TN	mg/L	1.4 ± 0.15	1.6 ± 0.50	
Lake Effluent Sample Locations	TP	mg/L	0.075 ± 0.013	0.48 ± 0.19	

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4-5 AMEC

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.

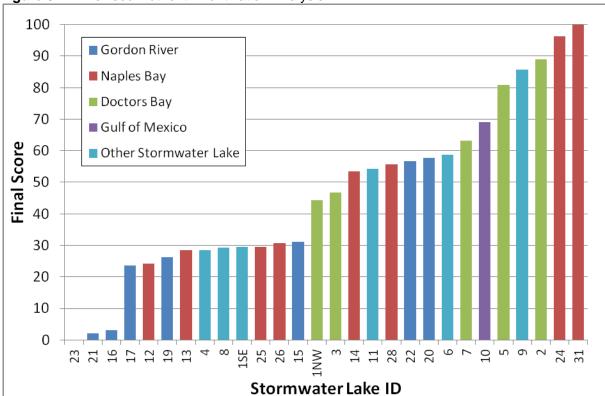


Figure 5-1. Revised Nutrient Prioritization Analysis

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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 (µg/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

		Annual Volume	Average	Annual Mass
Basin	Lake ID	Discharged ¹	Concentration	Discharged
		(acre-ft/yr)	(µg/L)	(kg/yr)
	15	68	15	1.2
	16	20	0.89	0.022
	17	25	0.30	0.009
Gordon River	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
	12	3.0	0.30	0.0011
	13	10	8.4	0.11
	14	34	2.0	0.083
Nanles Bay	24	9.4	2.9	0.034
Naples Bay	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
	1NW	125	6.7	1.0
	2	191	15	3.6
Doctors Bay	3	60	3.7	0.28
Doctors Bay	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

Source: AMEC (2012)

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Checked By: WAT

5-3 AMEC

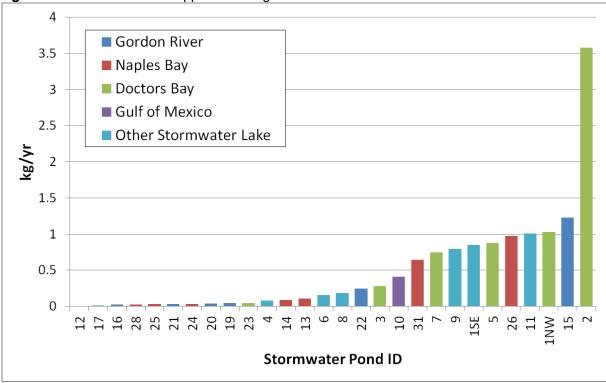


Figure 5-2. Total Annual Copper Discharge

Created By: SCA Checked By: WAT

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:

$$CFU_d=1.23\times10^7\times V_d\times C_{Ave}$$

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.

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Table 5-2. Total Annual Fecal Coliform Discharge

Basin	Lake ID	Annual Volume Discharged¹	Average Concentration	Annual Mass Discharged
		(acre-ft/yr)	(CFU/100mL)	(billions of CFU/yr)
	15	68	224	188
	16	20	561	140
Gordon River	17	25	520	161
	19	32	419	166
	20	43	481	257
	21	7.6	481	45
	22	118	428	622
	12	3.0	490	18
	13	10	3600	454
	14	34	40	16
Naples Bay	24	9.4	3919	454
Napies Day	25	4.3	2300	121
	26	17	398	85
	28	4.0	5300	260
	31	116	1049	1503
	1NW	125	120	187
	2	191	298	705
Doctors Bay	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

5-5 AMEC

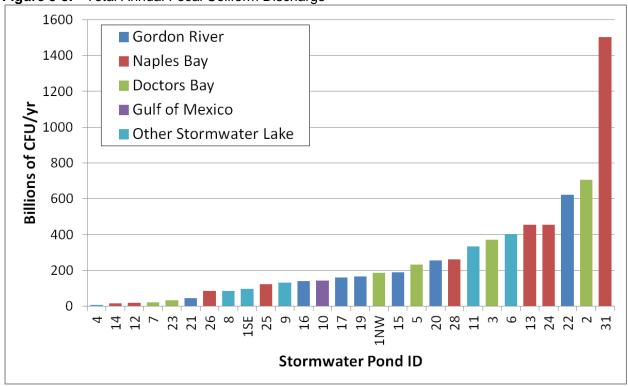


Figure 5-3. Total Annual Fecal Coliform Discharge

Created By: SCA Checked By: WAT

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

Table 6 61 Callinary of Foliatant Openine Rankings						
	Nutrients (TN/TP)		Copper		Fecal Coliform	
Order	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

Created By: SCA

Checked By:

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)

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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 nutrent 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

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- 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 BMPSs) 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 cyanobactera (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

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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 algaecide 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.

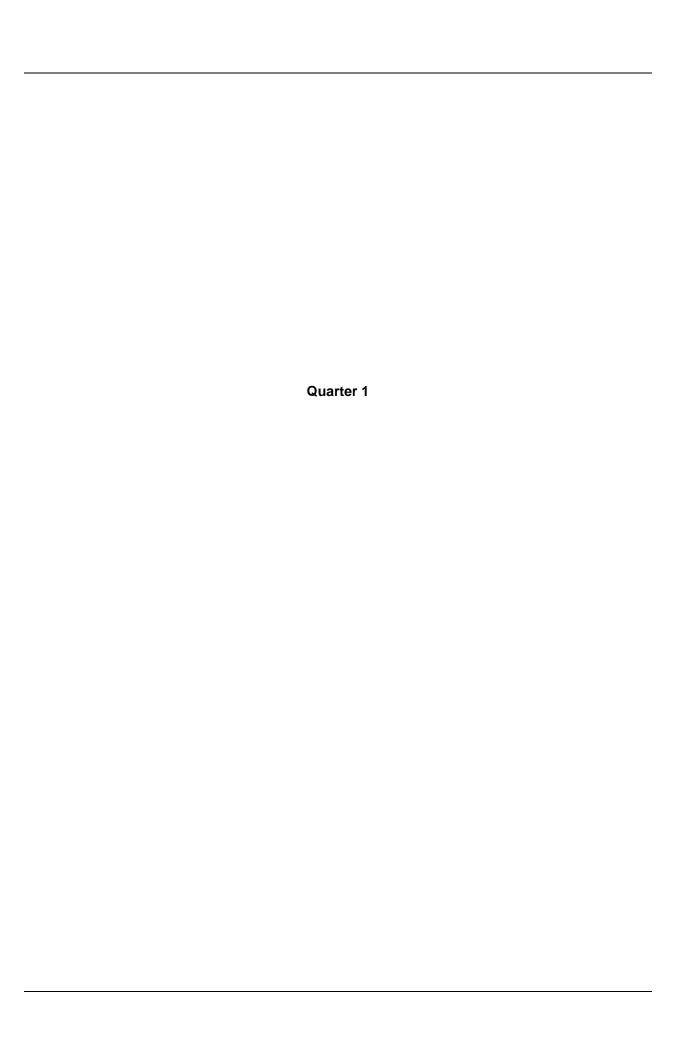
The fecal coliform prioritization provided in Section 5.3 identified the 5 lakes with the highest annual export of fecal coliform bacteria to downstream waterbodies. This analysis, together with the source tracking efforts that identified the 5th Ave. S commercial district and the portion of the Lantern 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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Paramet	ter	Туре	In/Out	Flow	Date	Time	Sample Type	Temp	рН	DO	Conductivity
Units				(Y/N)				(°C)	(s.u.)	(mg/l)	(μS/cm)
Locatio	n										
	PW-Pump	Pump Station		N	4/4/12	11:30 AM	bailer	26.85	7.2	6.14	1430
Pump Stations	14-Pump	Pump Station	In	N	4/5/12	9:30 AM	bailer	26.97	7.51	4.99	7091
	11-Pump	Pump Station		Υ	4/5/12	11:45 AM	bailer	25.05	7.09	4.52	2428
	1NW-B	Lake	Out	N	4/4/12	9:15 AM	bailer	27.27	7.88	5.38	508
	2B	Lake	Out	Υ	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	Υ	4/4/12	9:55 AM	bailer	27.82	8.52	9.25	442
	6B	Lake	Out	Υ	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
Semi-Annual	10B	Lake		N	4/6/12	9:45 AM	bailer	26.3	7.73	3.3	9660
Sampling Locations	11B	Lake	Out	Υ	4/5/12	10:45 AM	bailer	27.29	7.83	4.72	622
	14B	Lake	Out	Υ	4/5/12	9:05 AM	bailer	27.7	7.9	4.87	8072
	15B	Lake	Out	Υ	4/4/12	10:15 AM	bailer	27.59	8.66	7.55	507
	16B	Laek		Υ	4/4/12	10:45 AM	bailer	27.79	7.95	7.23	409
	19B	Lake	Out	Υ	4/4/12	12:20 AM	bailer	27.08	7.33	5.25	1031
	20B	Lake	Out	Υ	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	Υ	4/4/12	1:45 PM	bailer	28.93	8.77	19.6	466
	26B	Lake	Out	Υ	4/4/12	2:30 PM	bailer	27.7	7.13	2.54	496
	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
Roaming Locations	4th Ave. Alley	Conveyance		N	4/6/12	10:00 AM	bailer	22.83	8.28	7.12	47
	4th Ave. Garag		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	Υ	4/5/12	9:45:00 AM	bailer	23.56	7.65	3.96	1472



Quarter 2 Ambient Water Quality Parameters

Parame	Parameter		In/Out	Flow	Date	Time	Sample Type	Тетр рН		DO	Conductivity
Units				(Y/N)				(°C)	(s.u.)	(mg/l)	(μS/cm)
Locati	ion										
	PW-Pump	Pump Station			7/5/2012	1:20 PM	bailer	28.55	7.14	3.96	7072
Pump Stations	14-Pump	Pump Station		Υ	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



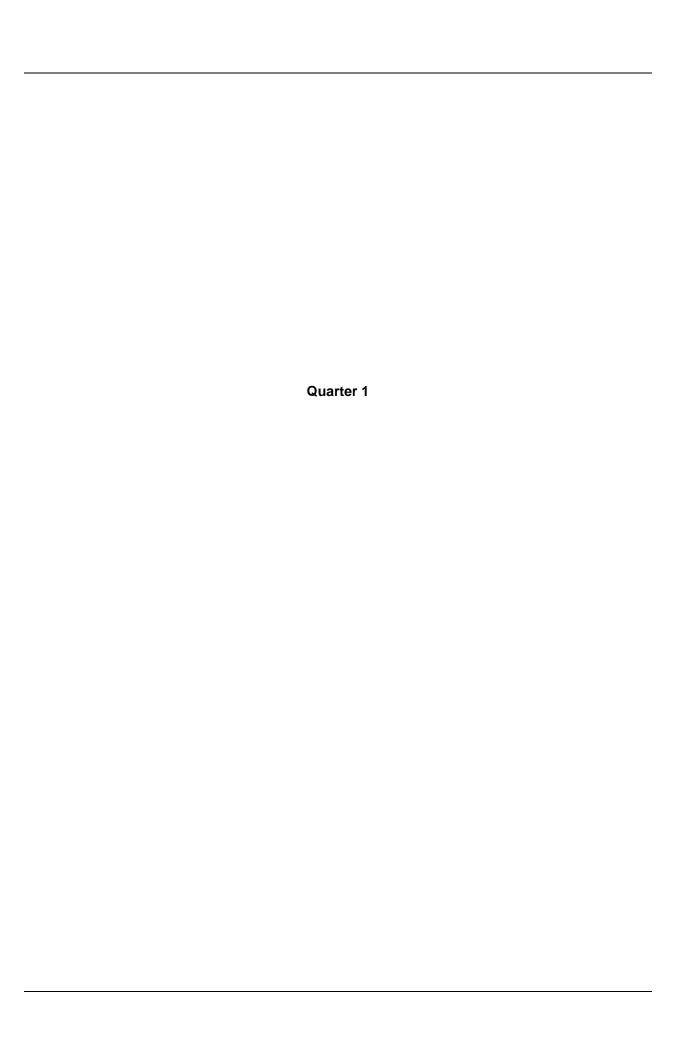
Pump Station 14-Pump Pump Station Y 9/26/12 11:15 AM bailer 27.75 7.15 4.15 30700	Paran	neter	Туре	In/Out	Flow	Date	Time	Sample Type	Temp	рН	DO	Conductivity
Pump Station	Un	its			(Y/N)				(°C)	(s.u.)	(mg/l)	(μS/cm)
Pump Stations 14-Pump Pump Station Y 9/26/12 11:15 AM bailer 27.75 7.15 4.15 30700	Loca	tion										
11-Pump Pump Station 12-Pump 13-Pump		PW-Pump	Pump Station		Υ	9/25/12	2:45 PM	bailer	28.09	7.19	4.56	1486
SE-B	Pump Stations	14-Pump	Pump Station		Υ	9/26/12			27.75	7.15	4.15	30706
Semi-Annual Sampling Locations Sampling Locations Sampling Locations Lake Out Y 9/25/12 11:03 AM Sampling Locations Sampling Locations Lake Out Y 9/25/12 11:15 AM grab 27:35 7:16 4.74 87:7 87:7 88:7 88:8 Lake Out Y 9/25/12 11:15 AM grab 28:19 7:15 4.47 64:4 64:4 78 88:4 Lake Out N 9/25/12 12:45 PM grab 28:19 7:15 4.47 64:4 78 78 Lake Out N 9/26/12 8:00 AM Sampling Locations Sam		11-Pump	Pump Station			9/26/12	9:45 AM	bailer	27.72	6.51	6.01	1331
Sampling Locations Samplin		1SE-B	Lake	Out	N	9/25/12	9:45 AM	bailer	27.33	7.31	4.81	453
Sampling Locations Sampling Locations Sampling Locations Sampling Locations Sampling Locations Sampling Locations Lake Out Y 9/25/12 11:15 AM grab 28.48 7.17 3.35 41: 68.8 Cake Out Y 9/26/12 17:30 AM bailer 27.73 8.44 8.79 1244 28.79 27: 20 24.22 666 28.88 Cake Out Y 9/26/12 8:00 AM grab 27:51 7.22 4.22 666 28.89		2B	Lake	Out	Υ	9/25/12	10:30 AM	bailer	27.54	7.29	4.52	1718
Semi-Annual Sampling Locations Sampling Locat			Lake	Out	Υ				27.35	7.16	4.74	877
TB		5B	Lake	Out	Υ	9/25/12	11:15 AM	grab	28.48	7.17	3.35	411
Semi-Annual		6B	Lake	Out	Υ	9/25/12	12:45 PM	grab	28.19	7.15	4.47	641
Semi-Annual 10B		7B	Lake	Out	N	9/26/12	7:30 AM	bailer	27.73	8.44	8.79	1240
Semi-Annual Sampling Locations 10B			Lake	Out	Υ	9/26/12	8:00 AM	grab	27.51	7.22	4.22	660
Sampling Locations 11B Lake Out Y 9/26/12 9:30 AW grab 27.43 5.88 2.41 533 14B Lake Out Y 9/26/12 11:00 AW grab 27.58 5.91 2.73 7529 15B Lake Out Y 9/25/12 11:30 AW grab 28.66 7.83 6.56 477 16B Lake Out N 9/25/12 11:45 AW grab 28.01 7.29 1.43 466 19B Lake Out Y 9/25/12 11:00 PM grab 28.33 7.61 8.04 553 20B Lake Out N 9/25/12 1:00 PM grab 28.33 7.61 8.04 553 21B Lake Out N 9/25/12 1:30 PM bailer 28.54 7.22 4.14 433 22B Lake Out Y 9/25/12 7:30 AW grab		9B	Lake	Out	N	9/26/12	8:30 AM	bailer	27.1	7.32	4.51	651
14B	Semi-Annual	10B	Lake	Out	Υ	9/26/12	9:00 AM	bailer	27.42	6.81	6.34	9139
15B	Sampling Locations	11B	Lake	Out	Υ	9/26/12	9:30 AM	grab	27.43	5.88	2.41	533
16B		14B	Lake	Out	Υ	9/26/12	11:00 AM	grab	27.58	5.91	2.73	7529
19B		15B	Lake	Out	Υ	9/25/12	11:30 AM	grab	28.66	7.83	6.56	477
20B		16B	Lake	Out	N	9/25/12	11:45 AM	grab	28.01	7.29	1.43	468
21B		19B	Lake	Out	Υ	9/25/12	12:00 PM	grab	28.33	7.61	8.04	554
22B		20B	Lake	Out	Υ	9/25/12	1:00 PM	grab	28.39	7.5	4.23	437
26B		21B	Lake	Out	N	9/25/12	1:30 PM	bailer	28.54	7.22	4.14	430
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 0.88 500 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 0.85 443 6D3-Pond Lake (private) Out N 9/26/12 11:45 AM bailer 27.72 7.14 4.37 873 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		22B	Lake	Out	Υ	9/25/12	2:30 PM	grab	27.67	6.93	2.02	589
Roaming Locations Lake In N 9/25/12 2:00 PM pump 28.05 6.96 0.88 500 4th Ave 3 Conveyance Conveyance Y 9/26/12 1:00 PM pump 27.08 6.92 0.41 65:0 1A3 Lake Out N 9/25/12 9:30 AM pump 28.46 6.84 0.85 44:0 6D3-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		26B	Lake	Out	Υ	9/27/12	7:30 AM	grab	26.31	NA	1.19	536
Roaming Locations 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 0.85 443 6D3-Pond Lake (private) Out N 9/26/12 11:45 AM bailer 27.72 7.14 4.37 8736 24B Lake Out Y 9/26/12 12:45 PM grab 27.91 8.07 4.76 1295 Reuse 1 Treatment Plant Water Supply 9/25/12 3:00 PM grab 30.37 6.9 6.49 1045		СР	Conveyance	Conveyance	Υ	9/26/12	10:45 AM	bailer	28.38	6.13	4.12	766
Roaming Locations 1A3 Lake Out N 9/25/12 9:30 AM pump 28.46 6.84 0.85 44:37 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		22A3	Lake	In	N	9/25/12	2:00 PM	pump	28.05	6.96	0.88	506
GD3-Pond Lake (private) Out N 9/26/12 11:45 AM bailer 27.72 7.14 4.37 8730 12:48 Lake Out Y 9/26/12 12:45 PM grab 27.91 8.07 4.76 12:49 12:49 PM 12:49		4th Ave 3	Conveyance	Conveyance	Υ	9/26/12	1:00 PM	pump	27.08	6.92	0.41	653
GD3-Pond Lake (private) Out N 9/26/12 11:45 AM bailer 27.72 7.14 4.37 8730 12:45 PM grab 27.91 8.07 4.76 12930 12:45 PM grab 10:45 PM	Roaming Locations	1A3	Lake		N	9/25/12			28.46	6.84	0.85	441
Reuse 1 Treatment Plant Water Supply 9/25/12 3:00 PM grab 30.37 6.9 6.49 1045		GD3-Pond	Lake (private)	Out	N	9/26/12			27.72	7.14	4.37	8730
		24B	Lake	Out	Υ	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			28.87			1054



Quarter 4 Ambient Water Quality Parameters

Parameter		Туре	In/Out	Flow	Date	Time	Sample Type	Temp	рН	DO	Conductivity
Units				(Y/N)				(°C)	(s.u.)	(mg/l)	(μS/cm)
Locati	ion										
	PW-Pump	Pump Station			12/6/2012	12:35 PM	bailer	26.36	7.07	3.76	3314
Pump Stations	14-Pump	Pump Station		Υ	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		Υ	12/6/2012	2:20 PM	grab	25.59	6.97	7.96	







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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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

 $\label{limit} \textbf{Client: AMEC Environment \& Infrastructure, Inc.}$

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Qualifiers

Metals

•	Qualifier	Qualifier Description
Ī	l	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

RPD

TEF

TEQ

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

Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Tampa 5/4/2012

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

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TestAmerica Job ID: 660-46954-1

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

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		_	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		_	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 Quali	ifier PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	41	2.0	0.14	ug/L		_	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 N	Method	Prep Type
Copper	1.1	I	2.0	0.14	ug/L	1	_ 2	200.8	Total
Nitrogen, Kjeldahl	0.85		0.20	0.050	mg/L	1	3	351.2	Recoverable Total/NA
Phosphorus	0.015		0.010	0.0044	mg/L	1	3	365.1	Total/NA
Nitrogen, Total	0.85		0.70	0.15	mg/L	1	T	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
Nitrogen, Kjeldahl	1.1		0.20	0.050	ma/l	1		351.2	Recoverable Total/NA
Nitrate Nitrite as N	0.22	ı	0.50		mg/L	1		353.2	Total/NA
Phosphorus	0.069		0.010	0.0044		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

TestAmerica Tampa 5/4/2012

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TestAmerica Job ID: 660-46954-1

Lab Sample ID: 660-46954-8

Lab Sample ID: 660-46954-9

Lab Sample ID: 660-46954-10

Lab Sample ID: 660-46954-11

Lab Sample ID: 660-46954-12

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

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	1	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

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.60	Ī	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

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

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D Me	ethod	Prep Type
Copper	1.0	I	2.0	0.14	ug/L	1	20	8.00	Total
									Recoverable
Nitrogen, Kjeldahl	0.70		0.20	0.050	mg/L	1	35	51.2	Total/NA
Phosphorus	0.056		0.010	0.0044	mg/L	1	36	35.1	Total/NA
Total Suspended Solids	4.4		1.0	1.0	mg/L	1	SI	M 2540D	Total/NA
Nitrogen, Total	0.70		0.70	0.15	mg/L	1	To	otal Nitrogen	Total/NA

Client Sample ID: 22B

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.1	Ī	2.0	0.14	ug/L		_	200.8	Total
									Recoverable
Nitrogen, Kjeldahl	0.85		0.20	0.050	mg/L	1		351.2	Total/NA
Phosphorus	0.0091	1	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

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D M	ethod	Prep Type
Copper	0.63	I	2.0	0.14	ug/L		20	0.8	Total
									Recoverable
Nitrogen, Kjeldahl	0.83		0.20	0.050	mg/L	1	35	1.2	Total/NA
Phosphorus	0.048		0.010	0.0044	mg/L	1	36	5.1	Total/NA
Total Suspended Solids	2.4		1.0	1.0	mg/L	1	SI	M 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)

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

Lab Sample ID: 660-46954-13 Client Sample ID: 26B

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	1	0.70	0.15	mg/L	1	Total Nitrogen	Total/NA

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Client Sample ID: 2B

Date Collected: 04/04/12 09:00

Date Received: 04/05/12 08:30

TestAmerica Job ID: 660-46954-1

Lab Sample ID: 660-46954-1

Matrix: Water

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: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Client Sample ID: 1B

Date Collected: 04/04/12 09:15

TestAmerica Job ID: 660-46954-1

Lab Sample ID: 660-46954-2

Matrix: Water

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			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

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Lab Sample ID: 660-46954-3

. Matrix: Water

Date Collected: 04/04/12 09:55 Date Received: 04/05/12 08:30

Client Sample ID: 5B

Method: 200.8 - Metals (ICP/MS) - Total Recove	rable							
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

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Client Sample ID: 15B

Date Collected: 04/04/12 10:15

Date Received: 04/05/12 08:30

TestAmerica Job ID: 660-46954-1

Lab Sample ID: 660-46954-4

Matrix: Water

Method: 200.8 - Metals (ICP/MS) - Total Recove	rable							
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: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Lab Sample ID: 660-46954-5

Matrix: Water

Date Collected: 04/04/12 10:45 Date Received: 04/05/12 08:30

Client Sample ID: 16B

Method: 200.8 - Metals (ICP/MS) - Total Recove	rable							
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

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Client Sample ID: PW

Date Collected: 04/04/12 11:30

Date Received: 04/05/12 08:30

TestAmerica Job ID: 660-46954-1

Lab Sample ID: 660-46954-6

Matrix: Water

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	1	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: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Lab Sample ID: 660-46954-7

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Matrix: Water

Date Collected: 04/04/12 12:2	0
Date Received: 04/05/12 08:3)

Client Sample ID: 19

Method: 200.8 - Metals (ICP/MS	6) - Total Recove	rable							
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	T.	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

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Lab Sample ID: 660-46954-8

Matrix: Water

Date Collected: 04/04/12 12:40 Date Received: 04/05/12 08:30

Client Sample ID: 20B

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

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Client Sample ID: 21B

Date Collected: 04/04/12 13:00

Date Received: 04/05/12 08:30

TestAmerica Job ID: 660-46954-1

Lab Sample ID: 660-46954-9

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Matrix: Water

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

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Lab Sample ID: 660-46954-10

Matrix: Water

Date Collected: 04/04/12 13:20 Date Received: 04/05/12 08:30

Client Sample ID: 22A

Method: 200.8 - Metals (ICP/MS) - Total Recove	rable							
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

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Lab Sample ID: 660-46954-11

Matrix: Water

Date Collected: 04/04/12 13:45 Date Received: 04/05/12 08:30

Client Sample ID: 22B

Method: 200.8 - Metals (ICP/MS) -	Total Recove	rable							
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	1	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

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Client Sample ID: 6B

TestAmerica Job ID: 660-46954-1

Lab Sample ID: 660-46954-12

. Matrix: Water

Date Collected: 04/04/12 14:10
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 F

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
Total Suspended Solids	2.4		1.0	1.0	mg/L		04/12/12 10:02	04/11/12 09:55	1 1 1

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46954-1

Lab Sample ID: 660-46954-13

Matrix: Water

Date Collected: 04/04/12 14:30 Date Received: 04/05/12 08:30

Client Sample ID: 26B

Method: 200.8 - Metals (ICP/MS) -	Total Recove	rable							
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	1	0.70	0.15	mg/L			04/11/12 10:50	1

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Project/Site: City of Naples Stormwater

Lab Sample ID: MB 180-32768/1-A

Lab Sample ID: LCS 180-32768/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 33180

Client Sample ID: Method Blank **Prep Type: Total Recoverable**

Prep Batch: 32768

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

> Client Sample ID: Lab Control Sample **Prep Type: Total Recoverable**

Prep Batch: 32768

Prep Type: Total Recoverable

Prep Batch: 123117

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

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

Lab Sample ID: LCSD 180-32768/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Water

Analysis Batch: 33180

Analysis Batch: 33180

Prep Batch: 32768 LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 250 237 Copper ug/L 85 - 115

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 660-123117/10-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 123176

MB MB

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

Lab Sample ID: LCS 660-123117/11-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 123176

Prep Batch: 123117 Spike LCS LCS %Rec. babbA Result Qualifier Limits Unit D %Rec

Analyte 3.00 Nitrogen, Kjeldahl 2.80 mg/L 93 90 - 110

Lab Sample ID: 660-46992-B-2-B MS

Matrix: Water Prep Type: Total/NA Analysis Batch: 123176 Prep Batch: 123117 Sample Sample Spike MS MS %Rec.

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Nitrogen, Kjeldahl 0.050 Ū 3.00 2.78 mg/L 93 90 - 110

Lab Sample ID: 660-46992-B-2-C MSD

Matrix: Water

Analysis Batch: 1231/6									Prep	Batch: 1	23117
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Nitrogen, Kjeldahl	0.050	U	3.00	2.91		mg/L		97	90 - 110	5	30

Prep Type: Total/NA

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 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA Analysis Batch: 123178 **Prep Batch: 123125**

мв мв

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

Lab Sample ID: LCS 660-123125/4-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA Analysis Batch: 123178 **Prep Batch: 123125** LCS LCS Spike

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

Lab Sample ID: 660-46956-A-2-B MS Client Sample ID: Matrix Spike **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 123178

Prep Batch: 123125 Spike MS MS Sample Sample %Rec. Result Qualifier Added Result Qualifier Unit D %Rec Limits 0.49 3.00 3.10 J3 90 - 110 Nitrogen, Kjeldahl mg/L

Lab Sample ID: 660-46956-A-2-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 123178 **Prep Batch: 123125** Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits RPD Limit 0.49 3.00 90 - 110 30

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 660-123056/44 Client Sample ID: Method Blank Prep Type: Total/NA

3.20

mg/L

90

Matrix: Water

Nitrogen, Kjeldahl

Analysis Batch: 123056

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

Lab Sample ID: LCS 660-123056/45 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 123056

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

Lab Sample ID: 660-46951-A-6 MS Client Sample ID: Matrix Spike **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 123056

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Nitrate Nitrite as N 0.10 U J3 1.00 0.853 J3 mg/L 85 90 - 110 Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

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

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA

Analysis Batch: 123056

Matrix: Water

1		Sample	Sample	Spike	MISD	IVIOD				MREC.		KFD
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	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 Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA

Analysis Batch: 123141

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

Lab Sample ID: LCS 660-123141/15 Client Sample ID: Lab Control Sample

Matrix: Water Prep Type: Total/NA

Analysis Batch: 123141

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

Lab Sample ID: 660-46942-B-1 MS Client Sample ID: Matrix Spike

Matrix: Water Prep Type: Total/NA

Analysis Batch: 123141

MS MS Sample Sample Spike %Rec. Result Qualifier Added Result Qualifier Unit %Rec Limits

Nitrate Nitrite as N 0.10 U 1.00 0.942 mg/L 90 - 110

Lab Sample ID: 660-46942-B-1 MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Analysis Batch: 123141 Sample Sample Spike MSD MSD

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

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 640-91539/3-A Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA **Analysis Batch: 91605** Prep Batch: 91539 мв мв

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

Lab Sample ID: LCS 640-91539/5-A **Client Sample ID: Lab Control Sample**

Matrix: Water Prep Type: Total/NA Analysis Batch: 91605 Prep Batch: 91539

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits

Phosphorus 0.100 0.0992 mg/L 99 90 - 110

TestAmerica Job ID: 660-46954-1

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: LCSD 640-91539/6-A Client Sample ID: Lab Control Sample Dup **Matrix: Water**

Analysis Batch: 91605

Prep Type: Total/NA Prep Batch: 91539

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

Lab Sample ID: 660-46954-6 MS **Client Sample ID: PW Matrix: Water** Prep Type: Total/NA Prep Batch: 91539 **Analysis Batch: 91605**

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

Lab Sample ID: 660-46954-6 DU **Client Sample ID: PW**

Matrix: Water Prep Type: Total/NA **Analysis Batch: 91605**

Prep Batch: 91539 Sample Sample DU DU RPD Analyte Result Qualifier Result Qualifier Unit **RPD** Limit Phosphorus 0.069 0.0689 30 mg/L

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

Lab Sample ID: MB 660-123196/1 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 123196

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

Lab Sample ID: LCS 660-123196/2 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 123196

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

Lab Sample ID: 660-46954-1 DU Client Sample ID: 2B **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 123196 DU DU RPD Sample Sample Result Qualifier Result Qualifier RPD Analyte Unit D Limit **Total Suspended Solids** 8.8 8.80 mg/L 20

TestAmerica Job ID: 660-46954-1

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

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	

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TestAmerica Job ID: 660-46954-1

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

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	

TestAmerica Job ID: 660-46954-1

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

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

 $\label{limit} \textbf{Client: AMEC Environment \& Infrastructure, Inc.}$

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	

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Lab Sample ID: 660-46954-1

Matrix: Water

Date Collected: 04/04/12 09:00 Date Received: 04/05/12 08:30

Client Sample ID: 2B

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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	ТО	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123203	04/11/12 10:41	RWF	TAL TAM

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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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 TAN
Total/NA	Prep	351.2			123117	04/09/12 12:00	TO	TAL TAN
Total/NA	Analysis	351.2		1	123176	04/10/12 18:01	TO	TAL TAN
Total/NA	Analysis	SM 2540D		1	123196	04/11/12 09:55	ТО	TAL TAN
Total/NA	Analysis	Total Nitrogen		1	123203	04/11/12 10:41	RWF	TAL TAN

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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Client Sample ID: 15B

Lab Sample ID: 660-46954-4

Matrix: Water

Date Collected: 04/04/12 10:15 Date Received: 04/05/12 08:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	ТО	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

Date Received: 04/05/12 08:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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**

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	ТО	TAL TAM
Total/NA	Analysis	351.2		1	123178	04/10/12 18:48	ТО	TAL TAM
Total/NA	Analysis	SM 2540D		1	123196	04/11/12 09:55	ТО	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123203	04/11/12 10:41	RWF	TAL TAM

TestAmerica Tampa 5/4/2012

Lab Sample ID: 660-46954-7

Matrix: Water

Date Collected: 04/04/12 12:20
Date Received: 04/05/12 08:30

Client Sample ID: 19

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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 TAN
Total/NA	Prep	351.2			123125	04/09/12 13:30	TO	TAL TAN
Total/NA	Analysis	351.2		1	123178	04/10/12 18:51	TO	TAL TAN
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 TAN

Client Sample ID: 21B Lab Sample ID: 660-46954-9 **Matrix: Water**

Date Collected: 04/04/12 13:00 Date Received: 04/05/12 08:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

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

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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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 TAN
Total/NA	Analysis	351.2		1	123178	04/10/12 18:55	ТО	TAL TAM
Total/NA	Analysis	SM 2540D		1	123196	04/11/12 09:55	ТО	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	123203	04/11/12 10:41	RWF	TAL TAN

Client Sample ID: 6B Lab Sample ID: 660-46954-12

Date Collected: 04/04/12 14:10

Date Received: 04/05/12 08:30

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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

Client Sample ID: 26B

Date Collected: 04/04/12 14:30

Date Received: 04/05/12 08:30

TestAmerica Job ID: 660-46954-1

Lab Sample ID: 660-46954-13

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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	ТО	TAL TAM
Total/NA	Analysis	SM 2540D		1	123196	04/11/12 09:55	ТО	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

TestAmerica Job ID: 660-46954-1

P330-08-00158

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

TestAmerica Tallahassee

USDA

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

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.

Federal

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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

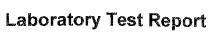
Sample Summary

Client: AMEC Environment & Infrastructure, Inc.

TestAmerica Job ID: 660-46954-1

Project/Site: City of Naples Stormwater

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



Lab Project #: F1204081
Page 1 of

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**:

Sanders A Laboratories Environmental Testing Services

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: F1204081

Report Date: 04/11/12

Lab ID F1204081-01	Sample 1 2B	Jescription	A CONTRACTOR OF THE CONTRACTOR	C. A. S. M. a. C. S. S. S. M. C. T. S.	Matr Surface	A	mple Lype GRAB	Received Data 4/4/12 13:0		nple Date/ 4/4/12 9:0	
Parameter	20	Result	<u>Qual</u>	MDL	PQL	<u>Units</u>	Method	Batch #	<u>Analysis</u>	Analyst	
Enterococcus, MPN		461		1	1	MPN/100ml	Enterolert	FB120406014	<u>Date/Time</u> 4/4/12 13:57	LV	E85457
Fecal Coliform, MF		180	В	90	90	CFU/100ml	SM9222D	FB120409017	4/4/12 14:06	LV	E85457
Lab ID	- Caracla I) escription			Matr		mple Type	Received Date		nple Date	
F1204081-02	1B	B7 <i>0</i> 2/8 8 1 1 1 1 (n) 1			Surface	Annual of the second se	GRAB	4/4/12 13:0		4/4/12 9:1	CONTRACTOR OF THE PARTY OF THE
<u>Parameter</u>		Result	Qual	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<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
g Falcal)	Sample l	Description					The state of the s	=Received Date			
F1204081-03	5B				Surface	Water	GRAB	4/4/12 13:0)0	4/4/12 9:5	5
<u>Parameter</u>		Result	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>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	В	90	90	CFU/100m1	SM9222D	FB120409017	4/4/12 14:06	LV	E85457
and D	· · · · · · · · · · · · · · · · · · ·	Description			Matr		mple://apre	=Receive((■) are			and the second s
F1204081-04	15B				Surface	Water	GRAB	4/4/12 13:0	00	4/4/12 10:1	15
<u>Parameter</u>		Result	Qual	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	Method	Batch #	Analysis Date/Time	<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, MI		100	U	100	100	CFU/100ml	SM9222D	FB120409017	4/4/12 14:06	LV	E85457
amiair———	Y-22	<u> teseription</u>			_Matr		mple/Evpe	≡Received±Dair	TO THE MOST DIVINE THE PARTY OF	nple Date/	
F1204081-05	16B				Surface	Water	GRAB	4/4/12 13:0		4/4/12 10:4	15
<u>Parameter</u>		Result	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>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	В	90	90	CFU/100ml	SM9222D	FB120409017	4/4/12 14:06	LV	E85457
<u>Eab ID</u> F1204081-06	Sample PW	Description	And the second s		Matr Surface		m ple Type GRAB	Received Date 4/4/12 16:0		nple Date/ 4/4/12 11:3	
<u>Parameter</u>		Result	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	Method	Batch #	Analysis Date/Time	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN		870		1	1	MPN/100ml	Entcrolert	FB120406013	4/4/12 16:10	LV	E85457

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

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SANDERS LABORATORIES, INC.

Laboratory Test Report

Client:

Test America Tampa

Client Project: MACTEC

Lab ID Sample Description

Page: Page 2 of 5

Lab Project: F1204081

Report Date: 04/11/12

								Report Date.	0 1, 11, 12		
<u>Lab ID</u> F1204081-06	Sample L PW	Deserption	Language and		Man Surface	and the same of th	mple Type GRAB	Received Dat 4/4/12 16:0		n ple Date 4/4/12 11:	
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> Date/Time	Analyst	<u>Lab ID</u>
Fecal Coliform, MF		3400		100	100	CFU/100ml	SM9222D	FB120409014	4/4/12 16:30	LV	E85457
Dabid.	Sample Î	escription		Lateral American	Mati	ix Sa	mple Type	Received Date	∘∕Time Sar	nple Date	Time .
F1204081-07	19				Surface		GRAB	4/4/12 16:0		4/4/12 12:	
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>
Enterococcus, MPN		313		1	1	MPN/100ml	Enterolert	FB120406013	4/4/12 16:10	LV	E85457
Fecal Coliform, MF		180	В	90	90	CFU/100ml	SM9222D	FB120409014	4/4/12 16:30	LV	E85457
Eab ID	Sample D	escription			Mati	ix Sa	molé Type	-Received-Date	/Time Sar	iple Date	/Fime
F1204081-08	20B				Surface		GRAB	4/4/12 16:0		4/4/12 12:4	
<u>Parameter</u>		<u>Result</u>	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	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
No. of the last of											
LablD	Sample D	escription			Matr	X Sir	ninle Tyne	Received Date	/Time San	inle Date	Time
F1204081-09	Samule D 21B	lescription			Matr Surface		m ple-Evpe GRAB	Received Date 4/4/12 16:0		iple Date/ 4/4/12 13:0	
The state of the s	Control of the second s	escription Result	<u>Qual</u>	MDL.	AND DESCRIPTION OF THE PERSONNEL PROPERTY.						00
F1204081-09	Control of the second s		The second se	MDL 1	Surface	Water	GRAB	4/4/12 16:0	Analysis	4/4/12 13:0	00
F1204081-09 Parameter	Control of the second s	<u>Result</u>	The second se		Surface PQL	Water <u>Units</u>	GRAB Method	4/4/12 16:0 Batch #	Analysis Date/Time	4/4/12 13:0 Analyst	Lab ID
F1204081-09 Parameter Enterococcus, MPN	21B	Result 8	Qual B	1	Surface PQL 1	Water <u>Units</u> MPN/100ml CFU/100ml	GRAB Method Enterolert	4/4/12 16:0 Batch # FB120406013	Analysis Analysis Date/Time 4/4/12 16:10 4/4/12 16:30 Fime San	4/4/12 13:0 Analyst LV LV	Lab ID E85457 E85457
F1204081-09 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID	21B Sample≡0	Result 8 360	Qual B	1	Surface PQL 1 90 Mate	Water <u>Units</u> MPN/100ml CFU/100ml	Method Enterolert SM9222D	4/4/12 16:0 <u>Batch #</u> FB120406013 FB120409014 <u>Received Data</u>	Analysis Analysis Date/Time 4/4/12 16:10 4/4/12 16:30 Fime San	4/4/12 13:0 Analyst LV LV ple Date/	E85457 E85457 Time
F1204081-09 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1204081-10	21B Sample≡0	Result 8 360 Description	Qual B	90	POL 1 90 Matr Surface	Water <u>Units</u> MPN/100ml CFU/100ml <u>Ix</u> Sal	Method Enterolert SM9222D mple Type GRAB	4/4/12 16:0 Batch # FB120406013 FB120409014 Received Data 4/4/12 16:0	Analysis Date/Time 4/4/12 16:10 4/4/12 16:30 //Time San 0 Analysis	Analyst LV LV mple Date/ 4/4/12 13:2	E85457 E85457 Time
F1204081-09 Parameter Enterococcus, MPN Fecal Coliform, MF Eab ID F1204081-10 Parameter	21B Sample≡0	Result 8 360 Pescription Result	Qual B	1 90 MDL	POL 1 90 Mater Surface	Water <u>Units</u> MPN/100ml CFU/100ml ix Sal Water <u>Units</u>	Method Enterolert SM9222D mple Type GRAB Method	### ##################################	Analysis Date/Time 4/4/12 16:10 4/4/12 16:30 5/Eime San 0 Analysis Date/Time	Analyst LV LV mie Date/ 4/4/12 13:2	E85457 E85457 Time 20 Lab ID
F1204081-09 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1204081-10 Parameter Enterococcus, MPN	Sample D 22A	Result 8 360 Pescription Result 69	Oual B Oual	1 90 <u>MDL</u>	POL 1 90 Matr Surface POL 1	Water Units MPN/100ml CFU/100ml Sal Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D mple Type GRAB Method Enterolert	### ##################################	Analysis Date/Time 4/4/12 16:10 4/4/12 16:30 5/Time San 0 Analysis Date/Time 4/4/12 16:10 4/4/12 16:30 5/Time San	Analyst LV LV mle Date/ 4/4/12 13:2 Analyst LV LV	E85457 E85457 Lab ID E85457 Lab ID E85457 E85457 E85457
F1204081-09 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1204081-10 Parameter Enterococcus, MPN Fecal Coliform, MF	Sample 1 22A	Result 8 360 Reserription Result 69 270	Oual B Oual	1 90 <u>MDL</u>	POL 1 90 Matr Surface POL 1 90 Matr Surface	Water Units MPN/100ml CFU/100ml Sal Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D mple Type GRAB Method Enterolert SM9222D	### ##################################	Analysis Date/Time 4/4/12 16:10 4/4/12 16:30 5/Time San 0 Analysis Date/Time 4/4/12 16:10 4/4/12 16:30 5/Time San	Analyst LV LV ple Date/ 4/4/12 13:2 Analyst LV LV LV LV	E85457 E85457 Lab ID E85457 Lab ID E85457 E85457 E85457
Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1204081-10 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1204081-11	Sample 1 22A	Result 8 360 escription Result 69 270	Oual B Oual B	1 90 MDL 1 90	POL 1 90 Mate Surface POL 1 90 Mate Surface Surface	Water Units MPN/100ml CFU/100ml ix Sa Water Units MPN/100ml CFU/100ml ix Sa) Water	Method Enterolert SM9222D mple Type GRAB Method Enterolert SM9222D mple Type GRAB	### ##################################	Analysis Date/Time 4/4/12 16:10 4/4/12 16:30 5/Time San 0 Analysis Date/Time 4/4/12 16:10 4/4/12 16:30 5/Time San 0 Analysis	Analyst LV LV mie Date/ 4/4/12 13:2 Analyst LV LV LV LV inle Date/ 4/4/12 13:4	E85457 E85457 Lab ID E85457 Lab ID E85457 E85457 E85457

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

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

								Report Date:	04/11/12		
Entell)	· · · · · · · · · · · · · · · · · · ·	escription	m-ever-sor		Matr		nple Type	Received Date			MATTER STATE OF THE CONTRACT O
F1204081-12	6 B				Surface	Water	GRAB	4/4/12 16:0	00	4/4/12 14:1	10
<u>Parameter</u>		Result	Qual	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> Date/Time	Analyst	<u>Lab ID</u>
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
Labeld	Sample D	escription	AND THE RESIDENCE PROPERTY OF THE PROPERTY OF		Matr		npleType	Received Data		iple Date	
F1204081-13	26B				Surface	Water	GRAB	4/4/12 16:0	00	4/4/12 14:3	30
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> Date/Time	Analyst	<u>Lab ID</u>
Enterococcus, MPN		68		1	1	MPN/100ml	Enterolert	FB120406013	4/4/12 16:10	LV	E85457
Fecal Coliform, MF		180	В	90	90	CFU/100ml	SM9222D	FB120409014	4/4/12 16:30	LV	E85457
elsabal D	Sample t	escription			Matr	ix Sai	nple=Lype==	=Received Dan	e/45ime===\$an	nple Date	1 inc
F1204081-14	GORDON I	DR			Surface	Water	GRAB	4/5/12 12:3	30	4/5/12 8:4	5
<u>Parameter</u>		Result	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>
Enterococcus, MPN		500		100	100	MPN/100ml	Enterolert	FB120410005	4/5/12 13:50	LV	E85457
Fecal Coliform, MF		43000		1000	1000	CFU/100mi	SM9222D	FB120410002	4/5/12 13:15	LV	E85457
Heataid Heat	Sample P	escription			Mātr	ix Sa	mple Lype	Received Date	://l'imeSaii	aple Date	Time
F1204081-15	1413				Surface	Water	GRAB	4/5/12 12:3	30	4/5/12 9:0	5
<u>Parameter</u>		Result	<u>Qual</u>	MDL	POL	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	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
36031D=4		escription			Matr		nple Type	Received Dat		A STATE OF THE PARTY OF THE PAR	
F1204081-16	14 PUMP				Surface	Water	GRAB	4/5/12 12:3	30	4/5/12 9:3	0
<u>Parameter</u>		Result	Qual	MDL	PQL	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>
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
ji ja		escription			<u>Mati</u>	ix Sa	nole Lype	Received Dat			
F1204081-17	4TH AVE				Surface	Water	GRAB	4/5/12 12:3	30	4/5/12 10:0	00
<u>Parameter</u>		Result	<u>Qual</u>	MDL	PQL	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
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

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

Lab ID Sample Description Matrix Sample Type Received Date/Fine Sample Date/Fine

Sanders

Environmental Testing Services _aboratories INC.

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PROJECT #	
F1204081	

P.O. #	BILL TO: SAME (NANCY ROBERTS)	Report To: 16STAMERICA TAN
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Preservative: HCI = H, HNO3 = N, Na2S2O3 = ST,

H₂SO₄ = S, NaOH = SH, NH₄Cl = NH

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Urojost I costion:	Project Name: NAPLÉ		
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	Project Location:	I loject ivalile.
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Customer Type: FOR AMEC

REQUESTED DUE DATE: Alle

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	Bottle Lot #	2	7	1		12	ÜX.	mpled mpler
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COMMENTS:	٠	į				į.	SAMPLE DESCRIPTION	10m 22
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90	T. Bares	*)	(414/12 900	DATE	
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	AFFILIAT		4	۲	<	<u> </u>	pH ICE	PRESERVATIVES
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441218	DATE TIME	VV	V V	√ √ √	\ \ \	<u>~</u>	Trail	ANALYSES REQUEST
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2130	TIME	*	*		1 of 66		Sample	

Sanders (Laboratories INC. Environmental Testing Services

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Preservative: HCl = H, HNO ₃ = N, Na ₂ S ₂ O ₃ = ST,	P.O. #	BIII TO: SAME	Report To: TESTAMERICA
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Address

TESTAMERICA	Bill To: Sキメウ	Project Location: WATER
ass TAMPA	P.O. #	Clistomer Type: (FOR AMEC)
(NANCY POSERTSON)	Preservative: HCl = H. HNO ₃ = N. Na ₂ S ₂ O ₃ = ST.	
eFax	H₂SO₄ = S, NaOH = SH, NH₄Cl = NH	UESTED DUE DATE:
nled By (PRINT)		116111111111

	Preservative: HCl = H, HNO ₃ = N, Na ₂ S ₂ O ₃ = ST, Ktt #	Bill To: STANE Project Location: WATER PRO. # Customer Type: (FOR AMEC)	Report To: TESTAMERICA Project Name: NAMES STORM	Page of 5/4/201	# 7 0 0 2
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	# For	V 26 B	63	22 13	22 A	1213	20B	9	Sw) PW	Watrix	Sampler Signature	Sampled By (PRINT)
COMMENTS:		3	B	な	Þ	53	bi			SAMPLE DESCRIPTION	ature	PRINT)
CLIENT INITIAL: SAMPLES ON ICE								÷		ION		
	Sam Arde /AM	V CEN V	1818	1345	1320	1360 /	(1240)	1220 (4/4/12/1/30 Gas	DATE TIME TYPE	Sample	
	BY / AFFILIATION						2.0			pH ICE		PRESERVATIVES
	DATE TIME	V V	VV		WV	1/1	V V	VJ	J J	10/0//		ANALYSES / REQUEST/
	ACCEPTED, BY AFFILIATION											9/////
	ON DATE TIME	- i3A	- しょ	<u>-</u>	9	£8,	-084	¥£0-	-Q A	Sample ID#		



<u>TestAmerica</u>

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

Jy John

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

Jeremy Sadler
Project Manager
jeremyr.sadler@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.

Page 43 of 66 5/4/2012

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Detection Summary	5
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Surrogate Summary	7
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QC Association Summary	9
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Method Summary	12
Sample Summary	13
Chain of Custody	14









Definitions/Glossary

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

Qualifiers

HPL	_C
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Qualitier	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.

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Detection Summary

Client: TestAmerica Tampa Project/Site: 660-46954

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

TestAmerica Job ID: G2D070425

Lab Sample ID: G2D070425001

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Analyte	Result Qualifie	er 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

Lab Sample ID: G2D070425001

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

Date Collected: 04/04/12 11:30 Date Received: 04/07/12 09:10

Matrix: Water

Matrix: Water

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 Date Received: 04/07/12 09:10

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694) Analyte Result Qualifier RL MDL Unit Prepared Dil Fac Analyzed Caffeine 50 04/10/12 15:45 04/14/12 08:18 0.99 90 13 ng/L 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

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

Matrix: Water Prep Type: Total

			Percent Surrogate Recovery (Acceptance Limits)
		3C3-Caffein	
Lab Sample ID	Client Sample ID	(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

very (Acceptance Limits)	Perce			
		ucralose-d		
		(25-150)	Client Sample ID	Lab Sample ID
		25	PW(660-46954-6)	G2D070425001
		18 *	22A(660-46954-10)	G2D070425002
		93	Method Blank	G2D190000139B
		117	Lab Control Sample	G2D190000139C
				Surrogate Legend
			se-d6	Surrogate Legend Sucralose-d6 = Sucralo

2

TestAmerica Job ID: G2D070425

04/14/12 05:14

Prep Batch: 2110139_P

04/24/12 23:55

04/10/12 15:45

04/19/12 14:30

Client: TestAmerica Tampa Project/Site: 660-46954

13C3-Caffeine

13C3-Caffeine

Sucralose-d6

Analysis Batch: 2110139

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

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93

Lab Sample ID: G2D100000115B Client Sample ID: Method Blank

Matrix: Water Prep Type: Total
Analysis Batch: 2101115

MB MB

Prep Type: Total
Prep Batch: 2101115_P

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

25 - 150

Lab Sample ID: G2D100000115C Client Sample ID: Lab Control Sample **Matrix: Water Prep Type: Total** Analysis Batch: 2101115 Prep Batch: 2101115 P LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Caffeine 100 111 60 - 140 ng/L 111 LCS LCS Surrogate %Recovery Qualifier Limits

Lab Sample ID: G2D190000139B Client Sample ID: Method Blank
Matrix: Water Prep Type: Total

25 - 150

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

Lab Sample ID: G2D190000139C

Matrix: Water

Analysis Batch: 2110139

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

25 - 150

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Sucralose 500 622 60 - 140 ng/L 124

 Surrogate
 %Recovery
 Qualifier
 Limits

 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 Date Received: 04/07/12 09:10 Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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

Matrice Water

Date Received: 04/07/12 09:10

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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
restAmerica West Sacramento	New Jersey	NELAC	2	CA005
TestAmerica West Sacramento	New Mexico	State Program	6	N/A
estAmerica West Sacramento	New York	NELAC	2	11666
estAmerica West Sacramento	Northern Mariana Islands	State Program	9	MP0007
estAmerica West Sacramento	Oregon	NELAC	10	CA200005
estAmerica West Sacramento	Pennsylvania	NELAC	3	68-01272
TestAmerica West Sacramento	South Carolina	State Program	4	87014
estAmerica West Sacramento	Texas	NELAC	6	T104704399-08-TX
estAmerica West Sacramento	US Fish & Wildlife	Federal		LE148388-0
TestAmerica West Sacramento	USDA	Federal		P330-09-00055
estAmerica West Sacramento	Utah	NELAC	8	QUAN1
estAmerica West Sacramento	Virginia	State Program	3	178
estAmerica West Sacramento	Washington	State Program	10	C581
estAmerica West Sacramento	West Virginia	State Program	3	9930C
estAmerica 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.

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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

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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

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T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 **TestAmerica** Sompany Special Instructions/Note: Z - other (specify) P - Na2O4S Q - Na2SO3 R - Na2S2SO3 S - H2SO4 N - None O - AsNaO2 Months 44 55 66 77 88 Company Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Preservation Codes: G - Amchlor H - Ascorbic Acid COC No: 660-43962.1 A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH Page: Page 1 of 1 660-46954-1 I - Ice J - DI Water K - EDTA L - EDA Archive For Total Number of containers Date/Time: 52007042 4 Date/Time: Aethod of Shipment: Disposal By Lab Analysis Requested Cooler Temperature(s) C and Other Remarks: Special Instructions/QC Requirements: Chain of Custody Record nancy.robertson@testamericainc.com Return To Client 13 Received by: Received by: Received by: Lab PM: Robertson, Nancy 114 SUBCONTRACT/ 1694 Caffeine, Sucralose × × Perform MS/MSD (Yes or No) Time: E-Mail: BT=Tissue, A=Air) S=solid, O=waste/oil, Preservation Code: Matrix Water Water Company G=grab) Sample (C=comp, Type 11:30 Eastern 13:20 Eastern Sample Time (AT Requested (days): Due Date Requested: 4/13/2012 Sample Date 4/4/12 4/4/12 Project #: 66003057 Date/Time: ACA Client Information (Sub Contract Lab) Deliverable Requested: I, II, III, IV, Other (specify) Phone (813) 885-7427 Fax (813) 885-7049 Sample Identification - Client ID (Lab ID) Custody Seal No.: 6712 Benjamin Road Suite 100 Possible Hazard Identification **TestAmerica Tampa** FestAmerica Laboratories, Inc. Empty Kit Relinquished by: Project Name: City of Naples Stormwater Custody Seals Intact: 880 Riverside Parkway, Sample Identification

Bood

Bood

Cool

C Tampa, FL 33634 Shipping/Receiving Phone: 916-373-5600(Tel) West Sacramento elinquished by: finquished by: elinquished by: **Jnconfirmed** State, Zip: CA, 95605

5/3/2012 5/4/2012

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LOT RECEIPT CHECKLIST TestAmerica West Sacramento

CLIENT	TAL TAN	MPA			PM_	JS
LOT# (QUANTIMS ID	G2D0	70425	QUOTE#	35474	_LOCATION_	W23/
DATE RECEIVED	4/7/12	TIME RECEI	VED	9:10		Checked (✓
DELIVERED BY	✓ FEDEX	ON TRAC	;	OTHER		
☐ GOLDENSTATE	UPS	☐ EZ PARC	EL			
☐ TAL COURIER	☐ TAL SF	☐ CLIENT				\checkmark
SHIPPPING CONTAIL	NER(S)	AL C	LIENT 1	N/A		
	MULI	T-COOLER(S) (If checked see	multi-cooler form)		
SINGLE COOLER INF	FORMATION				N/A	
CUSTODY SEAL STA	ATUS INTACT	BROKEN	✓ N/A			\checkmark
CUSTODY SEAL #(S))	N	IA			
COC #(S)		660-43962.	1			\checkmark
TEMPERATURE BLA	NK Observed:	NA	Corrected:_	NA		
SAMPLE TEMPERAT	•		•			
Observed: 2.8,2.9		2.5 Cor	rected Average	2.1	<u>—</u>	
LABORATORY THEF IR UNIT: #4 ✓		☐ OTHER_				\checkmark
		_			CH	4/7/12
					Initials D	ate
pH MEASURED		======== S	======= NOMALY		=======	√
LABELED BY					<u>—</u>	\checkmark
LOGGED IN BY				Сп	_	\checkmark
SHORT HOLD TEST	NOTIFICATION		SAMPLE RE			\checkmark
			WETCHEM VOA-ENCO			<u>√</u>
			VOA-LINOO	TILO VIIVA	`	V
☐ METALS NOT	IFIED OF FILTER/PI	RESERVE VIA	VERBAL & EMA	AIL 🔽 N/A		\checkmark
	HIPMENT RECEIVE EMPERATURES, CO					\checkmark
☐ CLOUSEAU ☑ WET ICE	☐ TEMPERA☐ BLUE ICE	TURE EXCEED GEL PAC	DED (0 °C − 6 °C K	C) ^{*1} 🗹 N/A DLING AGENTS US	SED	
						4/7/12
Notes Additional sa	mnle volume was	received on	Δ/10/12 at 1	Initial:		9
. 10.00 / taaitional 3a	THE VOIGING WAS	7.0001700 011	1, 10, 12 at 1.	dog.co o. oc	, ,, 10, 12	
					·	

^{*1} Acceptable temperature range for State of Wisconsin samples is \leq 4°C.

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10017	

Bottle Lot Inventory

THE LEADER IN ENVIRONMENTAL TESTING					TING	Lot ID: G2D070425														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*	'		3	-	<u> </u>	0	,	0	3	10	'''	12	10	14	13	10	17	10	13	20
VOAh*	-				-	_														
VOAmeoh	-	-		_	1	-			-	_		-			_		-	_	_	-
AGB	1	1																		
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
125AGJmeoh																				
CGJ																				
500CGJ																				
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125CGJ																				
PJ	1	1																		
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				

 \mathbf{h} = hydrochloric acid \mathbf{s} = sulfuric acid \mathbf{na} = sodium hydroxide \mathbf{n} = nitric acid \mathbf{zn} = zinc acetate

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Number of VOAs with air bubbles present / total number of VOA's

QA-185 10/09 RKE, Page 2

14 15 16 17 18 19 20

5/3/2012 5/4/2012

10 11 12 13

ALIGN OPEN END OF FEDEX AIRBILL POUCH HERE

13

(SU) WEST SACRAMENTO, CA 956051500

PLACE THIS LABEL ON PACKAGE NEXT TO THE SHIPPING LABEL



PRIORITY OVERNIGHT

FedEx (916), 373-5600

TEST AMERICA/WEST SACRAMENTO

880 RIVERSIDE PARKWAY

CUSTODY

WEST SACRAMENTO CA 956051500

DEPT: WORKSHARE SAMPLES

(916) 373-6600

TEST AMERICA/WEST SACRAMENTO

880 RIVERSIDE PARKWAY

CUSTODY

Ship Date: OGAPR12 ActWgt: 40.0 LB CAD: 842522/CAFE2511

ORIGIN ID: TPFA (813) 885-7427 CUSTODY TESTAMERICA TAMPA 6712 BENJAMIN ROAD

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

ORIGIN ID: TPFA (813) 885-7427 (ESTADDY TESTAFFRICA TAMPA 6712 BENJAMIN ROAD SUITE IO TAMPA FL 33634 UNITED STATES US

BILL RECIPIENT

SUITE 100 TAMPA, FL 33634 UNITED STATES US

Dimm: 12x11x9 IN

SATURDAY ### A1 PRIORITY OVERNIGHT

880 RIVERSIDE PARKWAY

95605 CA-US SMF

11/70 STIA 454-841881 # fas9

X0 BLUA

Part # 156148-434 RIT2 07/11

Page 18 of 19 Page 60 of 66

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1114

ORIGIN ID: TPFA (81 CUSTODY TESTAMERICA TAMPA 6712 BENJAMIN ROAD SUITE 100 TAMPA, FL 33634 UNITED STATES US

TO

Part # 155148-434 RITZ 07/11

TEST AMERICA/SACRAMENTO 880 RIVERSIDE PARKWAY **CUSTODY** WEST SACRAMENTO CA 956051500
(918) 973 - 5800
DEPT: WORKSHARE SAMPLES



THU - 19 APR STANDARD OVERNIGHT

BLUA

IAK# 5269 1727 4972

95605 CA-US SMF

Fedex Express



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Tampa, FL 33634
Phone (813) 885-7049

Chain of Custody Record

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Phone (813) 885-7427 Fax (813) 885-7049	Sampler:			Lab Pi	A:			Camer	Carrier Tracking No(s):	s)		COC No:	
Client Information				Robe	Robertson, Nancy							660-40477-13160.2	80.2
Client Contact: Mr. Tom Bates	Phone:			E-Mail: nancy.	E-Mail: nancy.robertson@testamericainc.com	stamericai	nc.com					2017	2042
Company: AMEC E&I, Inc			-			Ą	O)	Requested	ğ			:# dol:	778
Address: 222 Industrial Blvd., Suite 155	Due Date Requested:	sted:										Preservation Codes:	des:
City: City: Naples	TAT Requested (days):	(days):					orm					B - NaOH C - Zn Acetate	N - None O - AsNaO2
State, Zip: FL, 34104				-	CW377 L 100 5 5 3 1						i i	D - Nitric Acid E - NaHSO4	P-Na204S Q-Na2SO3
Phone: 239-564-8483(Tel)	P0#. 201103312				5 4 TH 1 54			· .				G - Amchlor	S-H2SO4
Emall:	WO#.											1 - Ice	U - Acetone
tdbates@mactec.com						ilids						J - DI Water	W-mA-5
Project Name:	Project#					d Sc					laine	L-EDA	Z - other (specify)
City of Naples Stoff Mater	CEOCUSOS/					nde					ont	Other:	
Site:	SSOW#:				MSD/(r of co	Other:	
		÷	Sample Type	Matrix (W=water,	Filtéred m MS/N Copper Phosph		ONTRAC				Number		
Sample Identification	Sample Date	e Time	G=grab)	r)	Perf 200.	351.2			-		Tota	Special I	Special Instructions/Note:
	\bigvee	7	Preservat	Preservation Code:	X _D s	s N	Z T				X		
68	4/4/12	1410		Water	×	×	× /	<u>ک</u> ک	Cattei	<u>(2.</u>			
26 B	4/4/12	1430		Water	×		×				1 V. (2)		
				Water							1 6		
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				Water						-	351		
Possible Hazard Identification Non-Hazard Flammable Skin Infant Poison B	П] Unknown		* + ±	Sample Disposal	ple Disposal (A fee	Β.	may be assessed if samples	assessed if sam, Disposal By Lab	oles are r	are retained Archive	tained longer than 1 Archive For	1 month) Months
asted: I, II, III, IV, Other (specify)		- 1	,		Special Ins	Special Instructions/QC Requirements:	C Require	ments:					
Empty Kit Relinquished by:	_	Date:		:	Time:			N	Method of Shipment:	pment:			
Relinquished by:	Date/Time:			Company	Received by:	d by:			<u>.</u>	Date/Time:			Company
Relinquished Sec	Date/Time:	14/12		Company	Yeocelye Xeocelye		3	war		Date/Time: /	5	830	James James
Relinquistied by: Ref.	Date/Time:			Company	Redeive	d by:	7		<u>.</u>	ate/Time: *		:	Company
Custody Seals Intact: Custody Seal No.:					Cooler 1	Cooler Temperature(s) °C and Other Remarks:	°C and Othe	y Remarks:					

Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-46954-1

Login Number: 46954 List Source: TestAmerica Tampa

List Number: 1

Creator: McNulty, Carol

Creator: McNulty, Carol		
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	

TestAmerica Tampa

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Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-46954-1

List Source: TestAmerica Pittsburgh
List Number: 1
List Creation: 04/06/12 12:12 PM

Creator: Watson, Debbie

Oreator. Watson, Debbie		
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	

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Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-46954-1

List Source: TestAmerica Tallahassee
List Number: 1
List Creation: 04/06/12 02:05 PM

Creator: Mitchell, Travis X

Creator: Mitchell, Travis A		
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	

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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 ·······

Review your project results through

Total Access

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

 $\label{limit} \textbf{Client: AMEC Environment \& Infrastructure, Inc.}$

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

RPD

TEF

TEQ

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

Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin)

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.

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Client Sample ID: Gordon Dr	Lab Sample ID: 660-46977-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper		V	2.0	0.14	ug/L		_	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	1	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
Nitrogen, Kjeldahl	0.31		0.20	0.050	mg/L	1		351.2	Recoverable 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	1	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		_	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		200.8	Total
Nitrogen, Kjeldahl	1.2	0.20	0.050 mg/L	1	351.2	Recoverable Total/NA

TestAmerica Tampa 5/4/2012

Detection Summary

Client: AMEC Environment & Infrastructure, Inc.

TestAmerica Job ID: 660-46977-1

Project/Site: City of Naples Stormwater

Client Sample ID: 11B (Continued)

Lab Sa	mple ID:	660-	46977-6
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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	IV	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	1	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: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Client Sample ID: Gordon Dr

TestAmerica Job ID: 660-46977-1

Lab Sample ID: 660-46977-1

Matrice Water

Matrix: Water

Date Collected: 04/05/12 08:45 Date Received: 04/06/12 09:00

Method: 200.8 - Metals (ICP/MS	i) - Total Recove	rable							
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

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Client Sample ID: 14B

TestAmerica Job ID: 660-46977-1

Lab Sample ID: 660-46977-2

Date Collected: 04/05/12 09:05 Matrix: Water Date Received: 04/06/12 09:00

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: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Lab Sample ID: 660-46977-3

. Matrix: Water

Date Collected: 04/05/12 09:30 Date Received: 04/06/12 09:00

Client Sample ID: 14 Pump

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	1	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		

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Lab Sample ID: 660-46977-4

Matrix: Water

Date Collected: 04/05/12 10:00 Date Received: 04/06/12 09:00

Client Sample ID: 4th Ave

Method: 200.8 - Metals (ICP/MS	ethod: 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	1	0.70	0.15	mg/L			04/13/12 12:52	1			

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46977-1

Lab Sample ID: 660-46977-5

Matrice Water

Matrix: Water

Date Collected: 04/05/12 10:25 Date Received: 04/06/12 09:00

Client Sample ID: 11A

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		

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Client Sample ID: 11B

TestAmerica Job ID: 660-46977-1

Lab Sample ID: 660-46977-6

Date Collected: 04/05/12 10:45 Matrix: Water Date Received: 04/06/12 09:00

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: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Client Sample ID: 11 Pump

TestAmerica Job ID: 660-46977-1

Lab Sample ID: 660-46977-7

Matrix: Water

Date Collected: 04/05/12 11:45
Date Received: 04/06/12 09:00

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	1	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

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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	ethod: 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			

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Project/Site: City of Naples Stormwater

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

мв мв

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

Lab Sample ID: LCS 180-32810/2-A Client Sample ID: Lab Control Sample **Prep Type: Total Recoverable**

Matrix: Water

Analysis Batch: 33180

Prep Batch: 32810 LCS LCS Spike Added Analyte Result Qualifier Unit %Rec Limits Copper 250 245 ug/L 98 85 - 115

Lab Sample ID: 180-9646-I-2-B MS Client Sample ID: Matrix Spike **Prep Type: Total Recoverable**

Matrix: Water

Analysis Batch: 33180

Prep Batch: 32810 Spike MS MS Sample Sample %Rec. Result Qualifier Analyte Added Result Qualifier Unit D %Rec Limits 1.1 IV 250 233 70 - 130 Copper ug/L

Lab Sample ID: 180-9646-I-2-C MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Total Recoverable**

Matrix: Water

Analysis Batch: 33180

Prep Batch: 32810 Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits RPD Limit 1.1 IV 250 70 - 130 Copper 228 ug/L 91 20

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 660-123230/3-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 123283

	IVID	IVID							
Analyte	Result	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 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA Analysis Batch: 123283 Prep Batch: 123230

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

Lab Sample ID: 660-46977-2 MS Client Sample ID: 14B **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 123283 Prep Batch: 123230 Sample Sample Spike MS MS %Rec.

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

Prep Type: Total/NA

Prep Batch: 123230

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: 660-46977-2 MSD)			Client Sample ID: 14B
Matrix: Water				Prep Type: Total/NA
Analysis Batch: 123283				Prep Batch: 123230
-	Sample Sample	Spike	MSD MSD	%Rec. RPD

	Gampio	Gumpio	Opino						701100.		5
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 123141

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

Lab Sample ID: LCS 660-123141/15 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 123141

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

Lab Sample ID: 660-46977-2 MS Client Sample ID: 14B **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 123141

ı		Sample	Sample	Spike	MS	MS				%Rec.
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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 Client Sample ID: 14B Prep Type: Total/NA

Matrix: Water

Analysis Batch: 123141

7, 0.10 1.20	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 91605

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

Lab Sample ID: LCS 640-91548/14-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 91605 Prep Batch: 91548 Spike LCS LCS %Rec. Analyte

Added Result Qualifier Unit %Rec Limits Phosphorus 0.100 0.0992 mg/L 90 - 110

Prep Batch: 91548

Prep Batch: 91548

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: LCSD 640-91548/15-A Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 91605

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

Lab Sample ID: 660-46977-1 MS Client Sample ID: Gordon Dr **Matrix: Water** Prep Type: Total/NA Prep Batch: 91548

Analysis Batch: 91605

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

Lab Sample ID: 660-46977-1 DU Client Sample ID: Gordon Dr Prep Type: Total/NA

Matrix: Water

Analysis Batch: 91605

Prep Batch: 91548 DU DU RPD Sample Sample Analyte Result Qualifier Result Qualifier Unit **RPD** Limit Phosphorus 0.56 J3 0.555 30 mg/L

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

Lab Sample ID: MB 660-123237/1 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 123237

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

Lab Sample ID: LCS 660-123237/2 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 123237

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

Lab Sample ID: 660-46977-1 DU Client Sample ID: Gordon Dr Prep Type: Total/NA

Matrix: Water

Analysis Batch: 123237

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

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

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	ВС	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 Batcl
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

TestAmerica Tampa 5/4/2012

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

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
LCSD 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

 $\label{lem:client:amec} \textbf{Client: AMEC Environment \& Infrastructure, Inc.}$

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	

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Lab Sample ID: 660-46977-1

Matrix: Water

Date Collected: 04/05/12 08:45 Date Received: 04/06/12 09:00

Client Sample ID: Gordon Dr

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	ТО	TAL TAM
Total/NA	Prep	351.2			123230	04/11/12 18:00	ТО	TAL TAM
Total/NA	Analysis	351.2		1	123283	04/12/12 18:01	ТО	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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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 TAN
Total/NA	Analysis	SM 2540D		1	123237	04/12/12 07:25	ТО	TAL TAN
Total/NA	Prep	351.2			123230	04/11/12 18:00	TO	TAL TAN
Total/NA	Analysis	351.2		1	123283	04/12/12 18:05	TO	TAL TAN
Total/NA	Analysis	Total Nitrogen		1	123319	04/13/12 12:52	RWF	TAL TAN

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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
otal 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
Γotal/NA	Analysis	365.1		1	91605	04/14/12 10:36	TDW	TAL TAL
Γotal/NA	Analysis	353.2		1	123141	04/09/12 13:23	KW	TAL TAM
Γotal/NA	Analysis	SM 2540D		1	123237	04/12/12 07:25	ТО	TAL TAM
Γotal/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
Γotal/NA	Analysis	Total Nitrogen		1	123319	04/13/12 12:52	RWF	TAL TAM

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Lab Sample ID: 660-46977-4

Matrix: Water

Client Sample ID: 4th Ave Date Collected: 04/05/12 10:00 Date Received: 04/06/12 09:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	то	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

Lab Sample ID: 660-46977-5

Matrix: Water

Matrix: Water

Date Collected: 04/05/12 10:25 Date Received: 04/06/12 09:00

Client Sample ID: 11A

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	ТО	TAL TAM
Total/NA	Prep	351.2			123230	04/11/12 18:00	ТО	TAL TAM
Total/NA	Analysis	351.2		1	123283	04/12/12 18:12	TO	TAL TAN
Total/NA	Analysis	Total Nitrogen		1	123319	04/13/12 12:52	RWF	TAL TAN

Client Sample ID: 11B Lab Sample ID: 660-46977-6

Date Collected: 04/05/12 10:45 Date Received: 04/06/12 09:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	ТО	TAL TAM
Total/NA	Prep	351.2			123230	04/11/12 18:00	ТО	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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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 TAN
Total/NA	Analysis	SM 2540D		1	123237	04/12/12 07:25	ТО	TAL TAN
Total/NA	Prep	351.2			123230	04/11/12 18:00	ТО	TAL TAN
Total/NA	Analysis	351.2		1	123283	04/12/12 18:16	TO	TAL TAN
Total/NA	Analysis	Total Nitrogen		1	123319	04/13/12 12:52	RWF	TAL TAN

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

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

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
estAmerica 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
estAmerica Pittsburgh	New Jersey	NELAC	2	PA005
estAmerica Pittsburgh	New York	NELAC	2	11182
estAmerica Pittsburgh	North Carolina DENR	State Program	4	434
estAmerica Pittsburgh	Pennsylvania	NELAC	3	02-00416
estAmerica Pittsburgh	Pennsylvania	State Program	3	02-416
estAmerica Pittsburgh	South Carolina	State Program	4	89014002
estAmerica Pittsburgh	USDA	Federal		P330-10-00139
estAmerica Pittsburgh	USDA	Federal		P-Soil-01
estAmerica Pittsburgh	Utah	NELAC	8	STLP
estAmerica Pittsburgh	Virginia	NELAC	3	460189
estAmerica Pittsburgh	West Virginia DEP	State Program	3	142
estAmerica Pittsburgh	Wisconsin	State Program	5	998027800
estAmerica Tallahassee	Florida	NELAC	4	E81005
estAmerica Tallahassee	Louisiana	NELAC	6	30663
estAmerica Tallahassee	New Jersey	NELAC	2	FL012
estAmerica Tallahassee	Oklahoma	State Program	6	9986
estAmerica Tallahassee	Texas	NELAC	6	T104704459-11-2
estAmerica 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.

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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

TestAmerica Tampa

5/4/2012

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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Lab Project #: F1204081

Page 1 of

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.

Ouestions 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 Endeayor 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

> > Page 27 of 56

5/4/2012

SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Client Project: MACTEC

Page: Page 3 of 5

Lab Project: F1204081

Report Date: 04/11/12

								Report Date:	04/11/12		
Faiblig		escription			== Matr		mple Type	Received Date		nple Date/	
F1204081-12	6B				Surface '	Water	GRAB	4/4/12 16:0	10	4/4/12 14:1	.0
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>POL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN		9		1	1	MPN/100mi	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
Ent ID F1204081-13	Sample D 26B	eseription			Mater Surface	CONTROL OF THE PARTY OF THE PAR	mple Type GRAB	Received Data 4/4/12 16:0		nple Date/ 4/4/12 14:3	And the second s
<u>Parameter</u>		<u>Result</u>	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>
Enterococcus, MPN		68		1	1	MPN/100ml	Enterolert	FB120406013	4/4/12 16:10	LV	E85457
Fecal Coliform, MF		180	В	90	90	CFU/100ml	SM9222D	FB120409014	4/4/12 16:30	LV	E85457
[ab]D	Sample D	<u>teseription</u>			Matr Surface		mple Type - GRAB	Received Date 4/5/12 12:3		n ple Date / 4/5/12 8:4	
F1204081-14	GORDON L)K			Surface	Water	OKAB	4/3/12 12,3		4/3/12 0,4	.J
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	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	2 1. Maria	escription			Matr	Control of the Contro	mple-Type				
F1204081-15	14B				Surface	Water	GRAB	4/5/12 12:3	30	4/5/12 9:0	15
<u>Parameter</u>		Result	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	Method	Batch #	Analysis Date/Time	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN		372		1	1	MPN/100ml	Enterolert	FB120410005	4/5/12 13:50	LV	E85457
Fecal Coliform, MP		100	U	100	100	CFU/100ml	SM9222D	FB120410002	4/5/12 13:15	LV	E85457
Lab ID	Sample L 14 PUMP	escription			Matr Surface		mple Type GRAB	Received Date		n ple Date / 4/5/12 9:3	
F1204081-16	14 PUMP				Surface	vy ater	OKAB	4/3/1Z 1Z		4/3/12 9.3	
<u>Parameter</u>		Result	<u>Qual</u>	<u>MDL</u>	PQL	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	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
Labild		escription			Mati		mple Type	=Received≡Dat		pple Date	
F1204081-17	4TH AVE				Surface	water	GRAB	4/5/12 12:3		4/5/12 10:0	JU
<u>Parameter</u>		Result	Qual	<u>MDL</u>	PQL	<u>Units</u>	Method	Batch #	Analysis Date/Time	<u>Analyst</u>	<u>Lab ID</u>
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

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

Matrix Sample Type Received Date/Fine Sample Date/Fine

Sample Description

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SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Page: Page 4 of 5

Client Project: MACTEC

Sample Description

Lab Project: F1204081

Report Date: 04/11/12

								Report Date.			
<u>Lab ID</u> F1204081-18	Sample 1 11A	eseription			Matr Surface	The same of the sa	nple= f ype GRAB	Received Date 4/5/12 12:3		nple Date/ 4/5/12 10:2	
<u>Parameter</u>		Result	<u>Qual</u>	MDL	POL	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>
Enterococcus, MPN		185		1	1	MPN/100ml	Enterolert	FB120410005	4/5/12 13:50	LV	E85457
Fecal Coliform, MF		1080	В	90	90	CFU/100ml	SM9222D	FB120410002	4/5/12 13:15	LV	E85457
Eabild	Sample D	escription			Matr	K Sai	nple Type	Received Date	/Time San	nple Date	Time
F1204081-19	11B		12 12 12		Surface		GRAB	4/5/12 12:3		4/5/12 10:4	
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>
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
initio	Sample I	escription			Mate	ix Sai	nple Type	Received Date	/Fime Sar	nple Date	Time
F1204081-20	11 PUMP				Surface	*** The second s	GRAB	4/5/12 15:1		4/5/12 11:4	
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>
Enterococcus, MPN		1730		1	1	MPN/100ml	Enterolert	FB120410005	4/5/12 15:30	LV	E85457
Fecal Coliform, MF		9910	В	90	90	CFU/100ml	SM9222D	FB120410004	4/5/12 15:30	LV	E85457
Ealis ID	Sample E	escription			Matr	Sa Sa	nple:Type	Received Date	e/Hime Sai	nple Date	9°me
<u>Lab ID</u> F1204081-21	Sample1 BC	esemption			Mair Surface	The state of the s	mple Evpe GRAB	Received Date 4/5/12 15:1		nple Date 4/5/12 12:4	
		eseription <u>Result</u>	Qual	MDL		The state of the s	one of the second secon				15
F1204081-21			The second secon	MDL 1	Surface	Water	GRAB	4/5/12 15:1	5 <u>Analysis</u>	4/5/12 12:4	15
F1204081-21 Parameter		Result	The second secon		Surface PQL	Water <u>Units</u>	GRAB Method	4/5/12 15:1 Batch #	5 <u>Analysis</u> <u>Date/Time</u>	4/5/12 12:4 Analyst	Lab ID
F1204081-21 Parameter Enterococcus, MPN Fecal Coliform, MF	BC	Result 961	Qual U	1	Surface PQL 1	Water <u>Units</u> MPN/100ml CFU/100ml	GRAB Method Enterolert	4/5/12 15;1 Batch # FB120410005	Analysis Date/Time 4/5/12 15:30 4/5/12 15:30	4/5/12 12:4 Analyst LV LV	Lab ID E85457 E85457
F1204081-21 Parameter Enterococcus, MPN	BC	Result 961	Qual U	1	Surface PQL 1 100	Water <u>Units</u> MPN/100ml CFU/100ml	Method Enterolert SM9222D	4/5/12 15:1 Batch # FB120410005 FB120410004	Analysis Date/Time 4/5/12 15:30 4/5/12 15:30	4/5/12 12:4 Analyst LV LV	Lab ID E85457 E85457 Time
F1204081-21 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID	BC Sample I	Result 961	Qual U	1	Surface PQL 1 100 Mate	Water <u>Units</u> MPN/100ml CFU/100ml	Method Enterolert SM9222D	4/5/12 15:1 Batch # FB120410005 FB120410004 Received Date	Analysis Date/Time 4/5/12 15:30 4/5/12 15:30	Analyst LV LV nple Date	Lab ID E85457 E85457 Time
F1204081-21 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1204081-22	BC Sample I	Result 961 1 rescription	Qual U	1 100	POL 1 100 Mate Surface	Water Units MPN/100ml CFU/100ml TX Sa) Water	Method Enterolert SM9222D mple Type GRAB	4/5/12 15:1 Batch # FB120410005 FB120410004 Received Date 4/6/12 12:3	Analysis Date/Time 4/5/12 15:30 4/5/12 15:30 6/Time Sar 30 Analysis	Analyst LV LV mple Date 4/6/12 7:4	Lab ID E85457 E85457 Time
F1204081-21 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1204081-22 Parameter	BC Sample I	Result 961 1 rescription Result	Qual U	1 100 <u>MDL</u>	POL 1 100 Material Surface POL	Water <u>Units</u> MPN/100ml CFU/100ml 3x Sin Water <u>Units</u>	Method Enterolert SM9222D mple Fype GRAB	4/5/12 15:1 Batch # FB120410005 FB120410004 Received Data 4/6/12 12:3 Batch #	Analysis Date/Time 4/5/12 15:30 4/5/12 15:30 6/Time San 30 Analysis Date/Time	Analyst LV LV nple Date 4/6/12 7:4	E85457 E85457 EME Lab ID Lab ID
F1204081-21 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1204081-22 Parameter Enterococcus, MPN Fecal Coliform, MF	Sample I	Result 961 1 PESCE ption Result 96 180	Qual U Qual B	1 100 <u>MDL</u> 1	POL 1 100 Matu Surface POL 1 90	Water Units MPN/100ml CFU/100ml Sa) Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D Enterolert GRAB Method Enterolert SM9222D	### A/5/12 15:1 ### Batch ## ### FB120410004 ### FB120410004 ### FB120411006 ### FB120411006 ### FB120411005	Analysis Date/Time 4/5/12 15:30 4/5/12 15:30 6/Time Sat 30 Analysis Date/Time 4/6/12 13:00 4/6/12 12:30	Analyst LV LV nple Date 4/6/12 7:4 Analyst LV LV	E85457 E85457 Lab ID E85457 Lab ID E85457 E85457
F1204081-21 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1204081-22 Parameter Enterococcus, MPN	Sample I	Result 961 1 PESCE Inflor Result 96	Qual U Qual B	1 100 <u>MDL</u>	POL 1 100 Mate Surface POL 1	Water Units MPN/100ml CFU/100ml X San Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D mple Fype GRAB Method Enterolert	4/5/12 15:1 Batch # FB120410005 FB120410004 Received Date 4/6/12 12:3 Batch # FB120411006	Analysis Date/Time 4/5/12 15:30 4/5/12 15:30 6/Time San 30 Analysis Date/Time 4/6/12 13:00 4/6/12 12:30	Analyst LV LV nple Date 4/6/12 7:4 Analyst LV LV	E85457 E85457 Lab ID E85457 Lab ID E85457 E85457 E85457
F1204081-21 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1204081-22 Parameter Enterococcus, MPN Fecal Coliform, MF	Sample L	Result 961 1 PESCE ption Result 96 180	Qual U Qual B	1 100 <u>MDL</u>	POL 1 100 Matr Surface POL 1 90	Water Units MPN/100ml CFU/100ml X San Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D mple Fype GRAB Method Enterolert SM9222D	### ##################################	Analysis Date/Time 4/5/12 15:30 4/5/12 15:30 6/Time San 30 Analysis Date/Time 4/6/12 13:00 4/6/12 12:30	Analyst LV LV nple Date 4/6/12 7:4 LV LV LV uple Date 4/6/12 8:1	E85457 E85457 Lab ID E85457 Lab ID E85457 E85457 E85457
Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1204081-22 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1204081-23	Sample L	Result 961 1 rescription Result 96 180 rescription	Qual U Qual B	1 100 MDL 1 90	POL 1 100 Matr Surface POL 1 90 Matr Surface	Water Units MPN/100ml CFU/100ml X San Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D mple Fype GRAB Method Enterolert SM9222D mple Fype GRAB	### ##################################	Analysis Date/Time 4/5/12 15:30 4/5/12 15:30 6/Time Sat 30 Analysis Date/Time 4/6/12 13:00 4/6/12 12:30 6/Time Sat 30 Analysis	Analyst LV LV nple Date 4/6/12 7:4 LV LV LV uple Date 4/6/12 8:1	E85457 E85457 Lab ID E85457 Lab ID E85457 E85457 E85457

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

Matrix Sample Type Received Date/Time Sample Date/Time

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CHAIN-OF-CUSTODY RECORD

PROJECT

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Preservative: HCI = H, HNO3 = N, Na2S2O3 = ST, H₂SO₄ = S, NaOH = SH, NH₄CI = NH

Phone

Address

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Environmental Testing Sei Laboratories

REQUESTED DUE DATE:

Project Location: Customer Type: Project Name: NAPLES TI SO SO Page AMES STERMWATER 5/4/2012

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Project Name: NAPLES STORMWATE

-30A -31A	Sample ID #		DUE DATE: 4111 12	POR AMEC	NAPLES STORMWATER	Page	120408
31 of 56		•	1 1	' '	1	5/4/201	2

1	#	Bottle Lot			3	
		Lot			BC	
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<u>TestAmerica</u>

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

Jy John

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

Jeremy Sadler
Project Manager
jeremyr.sadler@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.

Page 32 of 56 5/4/2012

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Method Summary	14
Sample Summary	15
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Definitions/Glossary

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

Qualifiers

Qualifier	Qualifier Description
NR	Not reportable.
*	Surrogate recovery is outside stated control limits.
1	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)



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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.

5/3/ 5/4 4

5⁵

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88

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110

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13

Detection Summary

Client: TestAmerica Tampa Project/Site: 660-46977

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

TestAmerica Job ID: G2D070426

ab Sample ID: G2D070426001

Prep Type

Total

L

Dil Fac D Method

0.98

1694



_							000000000
_ {	Sucralose	NR	10000	5000 ng/L	20	1694	Total
,	Jarreine	120	48	12 ng/L	0.96	1694	ıotai

MDL Unit

13 ng/L

Result Qualifier

32 Ī



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

Lab Sample ID: G2D070426002

0

No Detections

Caffeine

Analyte



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

Lab Sample ID: G2D070426003

Analyte Result Qualifier RL MDL Unit Dil Fac D Method Prep Type



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

Lab Sample ID: G2D070426004

49



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: TestAmerica Tampa Project/Site: 660-46977 TestAmerica Job ID: G2D070426

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

Date Collected: 04/05/12 08:45 Date Received: 04/07/12 09:10 Lab Sample ID: G2D070426001

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

4

Method: 1694 - Pharmaceuticals, F	IPLC/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				Prepared	Analyzed	Dil Fac
13C3-Caffeine	131		25 - 150				04/10/12 15:45	04/14/12 08:49	0.96
Sucralose-d6	0.0	*	25 - 150				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

Date Received: 04/07/12 09:10

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694) RL MDL Unit Analyte Result Qualifier 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 Prepared Analyzed Dil Fac 25 _ 150

 13C3-Caffeine
 119
 25 - 150
 04/10/12 15:45
 04/14/12 09:19
 0.98

 Sucralose-d6
 53
 25 - 150
 04/19/12 14:30
 04/25/12 02:28
 20

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

Date Collected: 04/05/12 09:30

Date Received: 04/07/12 09:10

60-46977-3) Lab Sample ID: G2D070426003

Matrix: Water

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Caffeine 32 49 13 04/10/12 15:45 04/14/12 09:50 0.98 na/L Sucralose ND 04/19/12 14:30 10000 5000 ng/L 04/25/12 02:59 20 Qualifier Limits Prepared Analyzed Dil Fac Surrogate %Recovery 13C3-Caffeine 04/10/12 15:45 111 25 - 150 04/14/12 09:50 0.98 Sucralose-d6 37 25 - 150 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

Date Received: 04/07/12 09:10

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694) Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed 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 Prepared Analyzed Dil Fac 13C3-Caffeine 120 25 - 150 04/10/12 15:45 04/14/12 10:21 0.96 04/19/12 14:30 Sucralose-d6 20 25 - 150 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

Date Received: 04/07/12 09:10

Method: 1694 - Pharmaceuticals, H	IPLC/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

Page 6 of 21 Page 37 of 56

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

Lab Sample ID: G2D070426005

Matrix: Water

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

Date Collected: 04/05/12 11:45 Date Received: 04/07/12 09:10

Method: 1694 - Pharmaceuticals,	HPLC/MS/MS	(1694) (Con	tinued)						
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
13C3-Caffeine	96		25 _ 150				04/10/12 15:45	04/14/12 10:51	1













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

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

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

Matrix: Water Prep Type: Total

			Percent Surrogate Recovery (Acceptance Limits)
		ucralose-d	
_ab Sample ID	Client Sample ID	(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

2

TestAmerica Job ID: G2D070426

Client: TestAmerica Tampa Project/Site: 660-46977

Sucralose-d6

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

Lab Sample ID: G2D100000115B Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 2101115

MB MB

Prep Type: Total

Prep Batch: 2101115_P

Analyte Qualifier RL MDL Unit D Analyzed Dil Fac Result Prepared 50 Caffeine 04/10/12 15:45 04/14/12 05:14 ND 13 ng/L MB MB

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 13C3-Caffeine
 74
 25 - 150
 04/10/12 15:45
 04/14/12 05:14
 1

Lab Sample ID: G2D100000115C Client Sample ID: Lab Control Sample
Matrix: Water Prep Type: Total

Caffeine 100 111 ng/L 111 60 - 140

LCS LCS

 Surrogate
 %Recovery
 Qualifier
 Limits

 13C3-Caffeine
 75
 25 - 150

93

Lab Sample ID: G2D190000139B Client Sample ID: Method Blank
Matrix: Water Prep Type: Total

Analysis Batch: 2110139 Prep Batch: 2110139_P

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

Lab Sample ID: G2D190000139C Client Sample ID: Lab Control Sample
Matrix: Water Prep Type: Total

25 - 150

Analysis Batch: 2110139

Spike LCS LCS

Rec.

Analyte

Added Result Qualifier Unit D %Rec Limits

 Analyte
 Added Sucralose
 Result 500
 Qualifier 622
 Unit ng/L
 D mg/L
 %Rec 124
 Limits 60 - 140

 Surrogate
 %Recovery
 Qualifier
 Limits

 Sucralose-d6
 117
 25 - 150

04/24/12 23:55

04/19/12 14:30

QC Association Summary

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

3

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

Lab Sample ID: G2D070426001

Matrix: Water

Matrix: Water

TAL WSC

Matrix: Water

Matrix: Water

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

Date Collected: 04/05/12 08:45 Date Received: 04/07/12 09:10

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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 Date Received: 04/07/12 09:10

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

20

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

Lab Sample ID: G2D070426003

2110139

04/25/12 02:28

NS

Date Collected: 04/05/12 09:30

Analysis

1694

Date Received: 04/07/12 09:10

Total

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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 Date Received: 04/07/12 09:10

=	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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

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Lab Chronicle

Client: TestAmerica Tampa Project/Site: 660-46977

TestAmerica Job ID: G2D070426

Lab Sample ID: G2D070426005

Matrix: Water

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

Date Collected: 04/05/12 11:45 Date Received: 04/07/12 09:10

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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
estAmerica West Sacramento	Alaska (UST)	State Program	10	UST-055
estAmerica West Sacramento	Arizona	State Program	9	AZ0708
estAmerica West Sacramento	Arkansas DEQ	State Program	6	88-0691
estAmerica West Sacramento	California	NELAC	9	1119CA
estAmerica West Sacramento	Colorado	State Program	8	N/A
estAmerica West Sacramento	Connecticut	State Program	1	PH-0691
estAmerica West Sacramento	Florida	NELAC	4	E87570
estAmerica West Sacramento	Georgia	State Program	4	960
estAmerica West Sacramento	Guam	State Program	9	N/A
estAmerica West Sacramento	Hawaii	State Program	9	N/A
estAmerica West Sacramento	Illinois	NELAC	5	200060
estAmerica West Sacramento	Kansas	NELAC	7	E-10375
estAmerica West Sacramento	Louisiana	NELAC	6	30612
estAmerica West Sacramento	Michigan	State Program	5	9947
estAmerica West Sacramento	Nevada	State Program	9	CA44
estAmerica West Sacramento	New Jersey	NELAC	2	CA005
estAmerica West Sacramento	New Mexico	State Program	6	N/A
estAmerica West Sacramento	New York	NELAC	2	11666
estAmerica West Sacramento	Northern Mariana Islands	State Program	9	MP0007
estAmerica West Sacramento	Oregon	NELAC	10	CA200005
estAmerica West Sacramento	Pennsylvania	NELAC	3	68-01272
estAmerica West Sacramento	South Carolina	State Program	4	87014
estAmerica West Sacramento	Texas	NELAC	6	T104704399-08-TX
estAmerica West Sacramento	US Fish & Wildlife	Federal		LE148388-0
estAmerica West Sacramento	USDA	Federal		P330-09-00055
estAmerica West Sacramento	Utah	NELAC	8	QUAN1
estAmerica West Sacramento	Virginia	State Program	3	178
estAmerica West Sacramento	Washington	State Program	10	C581
estAmerica West Sacramento	West Virginia	State Program	3	9930C
estAmerica West Sacramento	West Virginia DEP	State Program	3	334
estAmerica West Sacramento	Wisconsin	State Program	5	998204680
estAmerica 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.

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Method Summary

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

MethodMethod DescriptionProtocolLaboratory1694Pharmaceuticals, HPLC/MS/MS (1694)CFR136ATAL 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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4**1**0

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Sample Summary

Matrix

Water

Water

Water

Water

Water

Client: TestAmerica Tampa Project/Site: 660-46977

Lab Sample ID G2D070426001

G2D070426002

G2D070426003

G2D070426004

G2D070426005

Client Sample ID

14B(660-46977-2)

11A(660-46977-5)

14Pump(660-46977-3)

11 Pump(660-46977-7)

Gordon Dr.(660-46977-1)

TestAmerica Job ID: G2D070426

04/05/12 09:30

04/05/12 10:25

04/05/12 11:45

		3
Collected	Received	
04/05/12 08:45	04/07/12 09:10	₁ 4
04/05/12 09:05	04/07/12 09:10	

04/07/12 09:10

04/07/12 09:10

04/07/12 09:10

Q - Na2SO3 R - Na2S2SO3 S - H2SO4 T - TSP Dodecahydrate **TestAmerica** THE LEADER IN ENVIRONMENTAL TESTING THE U - Acetone V - MCAA W - ph 4-5 Z - other (specify) Special Instructions/Note: N - None O - AsNaO2 P - Na2O4S Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mont Company Preservation Codes 200 A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid COC No: 660-44007.1 Job #: 660-46977-1 Page: Page 1 of 1 I - Ice J - DI Water K - EDTA L - EDA 775 Total Number of containers G2DDJJ0476 ate/Time: lethod of Shipment: Analysis Requested cooler Temperature(s) °C and Other Remarks: Special Instructions/QC Requirements: Chain of Custody Record nancy.robertson@testamericainc.com eceived by: eceived by: Received by: 1114 Lab PM: Robertson, Nancy × \times × Perform MS/MSD (Yes or No) Time: Field Filtered Sample (Yes or No) E-Mail: Preservation Code: Water Matrix Water Water Water Company (C=comp, G=grab) Sample Type Eastern 09:30 Sample Eastern 09:05 Eastern 10:25 Eastern 11:45 Eastern 08:45 Date: Due Date Requested: 4/16/2012 TAT Requested (days): Sample Date 4/5/12 4/5/12 4/5/12 4/5/12 4/5/12 Project #: 66003057 Date/Time: SSOW#: Phone: Client Information (Sub Contract Lab) Peliverable Requested: I, III, III, IV, Other (specify) Control of the contro Custody Seals Intact: Custody Seal No.: Phone (813) 885-7427 Fax (813) 885-7049 Possible Hazard Identification 6712 Benjamin Road Suite 100 **TestAmerica Tampa** estAmerica Laboratories, Inc. Empty Kit Relinquished by Project Name: City of Naples Stormwater 11 Pump (660-46977-7) 380 Riverside Parkway Shipping/Receiving Phone: 916-373-5600(Tel) 11A (660-46977-5) City: West Sacramento inquished by: linquished by: **Jnconfirmed** inquished by: State, Zip: CA, 95605 ient Contact







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5/3/2012 5/4/2012



TestAmerica Tampa 6712 Benjamin Road Suite 100 Tampa, FL 33634			S	Ö) ustoc	Chain of Custody Record	٦			E LEADER WENNER	TestAmerica The Constitution of the Constitut
From (610) 565-7427 Fax (813) 885-7049	Samoler			l ab plat			Carrie	Carrier Tracking No(c)		No.	
Client Information (Sub Contract Lab)				Robertson, Nancy	n, Nancy			TI TI GONING MOUS		660-44366.1	
	Phone:			E-Mail: nancy.rot	ertson@te	E-Mail: nancy, robertson@testamericainc.com	was			Page: Page 1 of 1	
Company: TestAmerica Laboratories, Inc.				*******		Anal	Analysis Requested	ted		Job #: 660-46977-1	
Address: 880 Riverside Parkway, ,	Due Date Requested: 4/16/2012	4.7								Preservation Codes	odes:
City: West Sacramento	TAT Requested (days):	:\s				***************************************				B - NaOH C - Zn Acetate	N - None O - Asnao2
State, Zpr. CA, 95605	and a second									D - Nitric Acid E - NaHSO4	P - Na204S O - Na2SO3
Phone: 916-373-5600(Tel)	PO#:			(0 	3 9					G - Amchior H - Ascorbic Acid	
Email:	WO#:				and the state of the state of				s)	I - loe J - DI Water	
Project Name: City of Naples Stormwater	Project #: 66003057				THE WATER			***************************************	enistr	K-EDTA L-EDA	w - ph 4-5 Z - other (specify)
Site:	SSOW#:				namen and see				100 10	Other:	
	National American Service Serv	************		berefit? blei	меноти МУЛИ Гресоитка				redmuM ledo		
Sample identification - Cilent ID (Lab ID)	Sample Date	IIMe G=g	C=grab) et=tissue, A=Am Preservation Code:		2000000				ıX	Special	Special Instructions/Note:
Gordon Dr (660-46977-1)	4/5/12	08:45 Eastern	Water	i.	×				*		
14B (660-46977-2)	4/5/12	09:05 Eastern	Water	ā	×						ANNEWWOOD STATE OF THE STATE OF
14 Pump (660-46977-3)	4/5/12	09:30 Eastern	Water	To	×				***		
11A (660-46977-5)	4/5/12	10:25 Eastern	Water		×						
11 Pump (660-46977-7)	4/5/12	11:45 Eastern	Water	ē	×						
The state of the s				V-72-00-00-00							
The state of the s											
				Nichten and American							***
Possible Hazard Identification				6	amole Disc	osal (A fee	may be assess	ed if sample	os are retains	Sample Disposal (A fee may be assessed if samples are retained (nnner than 1 month	1 moath}
Unconfirmed)	Return	Return To Client	Dispos	Disposal By Lab	Arch	Archive For	Months
Deliverable Requested: I, II, III, IV, Other (specify)				S	oecíał Instru	Special Instructions/QC Requirements:	equirements:				
Empty Kit Relinquished by	<u>a</u>	Date:		Time:		e.	V	Method of Shipment	ent:		
Reproductive Dry	Date/Time: 7 / 1/8 / 1/2 Date/Time;	bill	Company	Tamp	Received by:		M	Date/Time	7	240	Company Company
Relinquished by:	Date/Time;		Company		Received by	7		Date/Time	Time:		Company
Custody Seals Intact: Custody Seal No.:					Coolar Tem	perature(s) °C ai	Cooler Temperature(s) "C and Other Remarks:	*****			
2 100 a NO											



CLIENT	TAL TAN	1PA				PM_	JS
LOT# (QUANTIMS ID			_QUOTE#	35474	4	LOCATION_	
DATE RECEIVED	4/7/12	TIME RECEIVI	ED	9:10		_	Checked (✓
DELIVERED BY	✓ FEDEX	ON TRAC		□отн	IER		
☐ GOLDENSTATE	UPS	☐ EZ PARCE	L				
☐ TAL COURIER	☐ TAL SF	☐ CLIENT					\checkmark
SHIPPPING CONTAII	NER(S)	L CLI	ENT 🔲	N/A			
	MULI	Γ-COOLER(S) (If	checked see	multi-cooler	form)		
SINGLE COOLER INF	FORMATION					N/A	
CUSTODY SEAL STA							\checkmark
CUSTODY SEAL #(S)						-	
COC #(S)							\checkmark
TEMPERATURE BLA	NK Observed:	NA	_ Corrected:	NA		-	
SAMPLE TEMPERAT	,		•	2.4	ı		
Observed: 2.8,2.9 LABORATORY THEF		Z.3 Corre	cted Average			-	
IR UNIT: #4 🗹		OTHER					\checkmark
						CH	4/7/12
=========	.========		=======				Oate =======
pH MEASURED					СН		$\overline{\checkmark}$
LABELED BY LOGGED IN BY					CH	-	✓
			SAMPLE RI			-	
SHORT HOLD TEST	NOTIFICATION		WETCHEM		✓ N/A		▼
			VOA-ENCC	RES	✓ N/A		$\overline{\checkmark}$
☐ METALS NOT	IFIED OF FILTER/PR	RESERVE VIA VE	ERBAL & EM	AIL 🔽 N/A			\checkmark
	HIPMENT RECEIVE						\checkmark
	EMPERATURES, CC						
☐ CLOUSEAU ☑ WET ICE		TURE EXCEEDE GEL PACK			NTS USE	ΞD	
•					С	Н	4/7/12
NI		4 سماد میشوموس	/40/40 =+ 4	1	Initials	Dat	te
Notes <u>Additional sa</u>	<u>mpie volume was</u>	received on 4	/19/12 at 1	. i aegree	C. JS	4/19/12	

^{*1} Acceptable temperature range for State of Wisconsin samples is \leq 4°C.

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	ica

Bottle Lot Inventory

THE LEADER I	N ENV	IRONI	MENTA	AL TES	STING	Lot ID:						G2D070426								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*		† <u> </u>	1													-				
VOAh*	-				-	_										-				
VOAmeoh	-	-		<u> </u>	1	-			ļ -			-	-				-			
AGB	1	1	1	1	1															
AGBs																				
250AGB																				
250AGBs																				
250AGBn																				
500AGB																				
AGJ																				
500AGJ																				
250AGJ																				
125AGJ																				
125AGJmeoh																				
CGJ																				
500CGJ																				
250CGJ							<u>I</u>													
125CGJ																				
PJ	1	1	1	1	1															
PJn																				
500PJ																				
500PJn																				
500PJna																				
500PJzn/na																				
250PJ																				
250PJn																				
250PJna																				
250PJzn/na																				
Acetate Tube																				
"CT																				
Encore																				
Folder/filter																				
PUF																				
Petri/Filter																				
XAD Trap																				
Ziploc																				
	1	2	2	1	5	6	7	Ω	a	10	11	12	12	1/	15	16	17	10	10	20

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | **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

QA-185 10/09 RKE, Page 2

5/3/2012 5/4/2012

ALIGN OPEN END OF FEDEX AIRBILL POUCH HERE

NEXT TO THE SHIPPING LABEL

PLACE THIS LÁBEL ÓN PACKAGE

F1/70 STIA 464-841881 # Ins

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

SHIP DATE: 06APR12 ACTWGT: 40.0 LB CAD: 842522/CAFE2511 DIMS: 12×11x9 IN

ORIGIN ID: TPFA (813) 885-7427 (10150) 15 (1

BILL RECIPIENT

Ship Date: OGAPR12 ActWgt: 40.0 LB CAD: 842522/CAFE2511

Dimm: 12x11x9 IN

TEST AMERICA/WEST SACRAMENTO

(916), 373-5600

WEST SACRAMENTO, CA 956051500 880 RIVERSIDE PARKWAY CUSTODY

WEST SACRAMENTO CA 956051500

DEPT: WORKSHARE SAMPLES

TEST AMERICA/WEST SACRAMENTO

880 RIVERSIDE PARKWAY

CUSTODY

FedEx

(SD)

PRIORITY OVERNIGHT Trk# 5269 1727 4424



FedEx

PRIORITY OVERNIGHT, ### SATURDAY ### A1

95605 CA-US SMF

Part # 156148-434 RIT2 07/11

Page 20 of 21 Page 51 of 56

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112 13

1114

ORIGIN ID: TPFA (813) 885-742 CUSTODY TESTAMERICA TAMPA 6712 BENJAMIN ROAD SUITE 100 TAMPA, FL 33634 SHIP DATE: 18APR12 ACTUGT: 45.6 LB CAD: 842522/CAFE2511 DIMS: 24x14x13 IN

TILL RECIPIENT

TO

TEST AMERICA/SACRAMENTO
880 RIVERSIDE PARKWAY
CUSTODY
WEST SACRAMENTO CA 956051500
(910) 973-5600
DEPT: WORKSHARE SAMPLES

DEPT: WORKSHARE SAMPLES

FedEx Express 92 Intelliging 1 List 1 of

TRK# 5269 1727 4972

THU - 19 APR A1 STANDARD OVERNIGHT

Part # 156148-434 RIT2 07/1/1 ••

95605 CA-US SMF



Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc. Job Number: 660-46977-1

Login Number: 46977 List Source: TestAmerica Tampa

List Number: 1 Creator: McNulty, Carol

Creator. McNurty, Carol		
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	

5/4/2012

Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-46977-1

List Source: TestAmerica Pittsburgh
List Number: 1
List Creation: 04/07/12 10:43 AM

Creator: Watson, Debbie

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
background The cooler's custody seal, if present, is intact. The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. True
The cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. True
tampered with. 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.
COC is filled out with all pertinent information.
Is the Field Sampler's name present on COC?
There are no discrepancies between the sample IDs on the containers and the COC.
Samples are received within Holding Time.
Sample containers have legible labels.
Containers are not broken or leaking.
Sample collection date/times are provided. True
Appropriate sample containers are used. True
Sample bottles are completely filled. True
Sample Preservation Verified.
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 True diameter.
Multiphasic samples are not present. N/A
Samples do not require splitting or compositing. N/A
Residual Chlorine Checked. N/A

TestAmerica Tampa

5/4/2012

Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-46977-1

List Source: TestAmerica Tallahassee
List Number: 1
List Creation: 04/09/12 09:45 AM

Creator: Delp, Eric

Answer	Comment
N/A	
True	
N/A	
True	
N/A	
N/A	
	N/A True True True True True True True True

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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 ·······

Review your project results through

Total Access

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.

Table of Contents

Cover Page	1
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Definitions/Glossary

 ${\bf Client:\ AMEC\ Environment\ \&\ Infrastructure,\ Inc.}$

Toxicity Equivalent Quotient (Dioxin)

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

TEQ

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
ĒΡΑ	United States Environmental Protection Agency
MDL	Method Detection Limit
ИL	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
ΓEF	Toxicity Equivalent Factor (Dioxin)

TestAmerica Tampa 5/4/2012

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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TestAmerica Job ID: 660-46994-1

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

Lab Sample ID: 660-46994-1

Lab Sample ID: 660-46994-2

Lab Sample ID: 660-46994-3

Lab Sample ID: 660-46994-4

Lab Sample ID: 660-46994-5

Lab Sample ID: 660-46994-6

Client Sample ID: 1A

Analyte	Posult	Qualifier	PQL	MDL	Unit	Dil Fac	n	Method	Prep Type
Copper	9.6		2.0	0.14	ug/L		_	200.8	Total
Nitrogen, Kjeldahl	1.1		0.20	0.050	mg/L	1		351.2	Recoverable 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	ma/L	1		Total Nitrogen	Total/NA

Client Sample ID: 3B

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
Nitrogen, Kjeldahl	1.1		0.20	0.050	mg/L	1		351.2	Recoverable 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

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

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

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D I	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

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.9	Ī	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

TestAmerica Tampa 5/4/2012

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Detection Summary

Client: AMEC Environment & Infrastructure, Inc.

TestAmerica Job ID: 660-46994-1

Project/Site: City of Naples Stormwater

Lab	Sample	ID:	660	-46994-6
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Analyte	Result Qualifier	PQL	MDL Unit	Dil Fac D	Method	Prep Type
Nitrogen, Total	1.6	0.70	0.15 mg/L		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: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Client Sample ID: 1A

TestAmerica Job ID: 660-46994-1

Lab Sample ID: 660-46994-1

Matrix: Water

Date Collected: 04/06/12 07:45 Date Received: 04/07/12 08:30

Method: 200.8 - Metals (ICP/MS Analyte	•	rable 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: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Client Sample ID: 3B

Date Collected: 04/06/12 08:15

Date Received: 04/07/12 08:30

TestAmerica Job ID: 660-46994-1

Lab Sample ID: 660-46994-2

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Matrix: Water

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

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Client Sample ID: 7B

Date Collected: 04/06/12 08:30

Date Received: 04/07/12 08:30

TestAmerica Job ID: 660-46994-1

Lab Sample ID: 660-46994-3

Matrix: Water

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: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Client Sample ID: 8B

Date Collected: 04/06/12 09:00

Date Received: 04/07/12 08:30

TestAmerica Job ID: 660-46994-1

Lab Sample ID: 660-46994-4

Matrix: Water

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: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Lab Sample ID: 660-46994-5

Matrix: Water

•
Date Collected: 04/06/12 09:15
Date Received: 04/07/12 08:30

Client Sample ID: 9B

Method: 200.8 - Metals (ICP/MS	S) - Total Recove	rable							
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

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Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-46994-1

Lab Sample ID: 660-46994-6

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Matrix: Water

Date Collected: 04/06/12 09:30 Date Received: 04/07/12 08:30

Client Sample ID: 10B

Method: 200.8 - Metals (ICP/MS)	- Total Recove	rable							
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

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Client Sample Results

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Client Sample ID: Alley

Date Collected: 04/06/12 10:00

Date Received: 04/07/12 08:30

TestAmerica Job ID: 660-46994-1

Lab Sample ID: 660-46994-7

Janiple ID. 000-40334-7

Matrix: Water

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	1	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

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

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

Prep Type: Total/NA

Prep Batch: 123230

Prep Type: Total/NA

Client Sample ID: 1A

Prep Type: Total/NA

мв мв

Result Qualifier PQL MDL Unit D Analyzed Dil Fac Analyte Prepared 2.0 0.14 ug/L 04/12/12 10:36 04/17/12 12:06 Copper 0.14 U

Lab Sample ID: LCS 180-33066/2-A **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total Recoverable** Prep Batch: 33066

Analysis Batch: 33541

LCS LCS Spike Added Analyte Result Qualifier Unit %Rec Limits Copper 250 224 ug/L 90 85 - 115

Lab Sample ID: LCSD 180-33066/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Total Recoverable**

Matrix: Water

Analysis Batch: 33541							Prep	Batch:	33066
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	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 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 123283

MB MB

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

Lab Sample ID: LCS 660-123230/4-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 123283

Prep Batch: 123230 Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit D %Rec

3.00 Nitrogen, Kjeldahl 2.84 mg/L 95 90 - 110 Lab Sample ID: 660-46994-1 MS Client Sample ID: 1A

Matrix: Water

Analysis Batch: 123283

Prep Batch: 123230 MS MS Sample Sample Spike %Rec. Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Nitrogen, Kjeldahl 1.1 3.00 1.03 mg/L 90 - 110

Lab Sample ID: 660-46994-1 MSD

Matrix: Water

Analysis Batch: 123283									Prep	Batch: 1	23230
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Nitrogen, Kjeldahl	1.1		3.00	1.06		mg/L		-1	90 - 110	3	30

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Client Sample ID: 7B

Prep Type: Total/NA

Client Sample ID: 7B

Prep Type: Total/NA

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 660-123141/14

Matrix: Water

Analysis Batch: 123141

мв мв

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

Lab Sample ID: LCS 660-123141/15

Matrix: Water

Analysis Batch: 123141

LCS LCS Spike %Rec. Added Result Qualifier Analyte Unit %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

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

Lab Sample ID: 660-46977-C-2 MSD

Matrix: Water

Analysis Batch: 123141

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

Lab Sample ID: MB 660-123399/14

Matrix: Water

Analysis Batch: 123399

MR MR

Result Qualifier PQL MDL Unit Analyte D Dil Fac Prepared Analyzed 0.50 Nitrate Nitrite as N 0.10 U 04/17/12 11:11 0.10 mg/L

Lab Sample ID: LCS 660-123399/15

Matrix: Water

Analysis Batch: 123399

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits 1.00 97 Nitrate Nitrite as N 0.972 mg/L 90 - 110

Lab Sample ID: 660-46994-3 MS

Matrix: Water

Analysis Batch: 123399

MS MS Sample Sample Spike %Rec. Added Analyte Result Qualifier Result Qualifier Unit %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

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 0.10 U Nitrate Nitrite as N 1.00 0.955 mg/L 90 - 110 2.65

> TestAmerica Tampa 5/4/2012

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 640-91613/3-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 91646** Prep Batch: 91613

мв мв

Result Qualifier PQL MDL Unit Analyte D Prepared Dil Fac Analyzed 0.010 0.0044 mg/L 04/16/12 10:00 04/16/12 14:46 Phosphorus 0.0044 U

Lab Sample ID: LCS 640-91613/5-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 91646** Prep Batch: 91613 LCS LCS Spike

Added Analyte Result Qualifier Unit %Rec Limits Phosphorus 0.100 0.0984 mg/L 98 90 - 110

Lab Sample ID: LCSD 640-91613/6-A Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 91646 Prep Batch: 91613 Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 0.100 0.0989 Phosphorus mg/L

Lab Sample ID: 640-38182-E-1-C MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Water

Analysis Batch: 91646 Sample Sample Spike MS MS

%Rec. Result Qualifier Added Analyte Result Qualifier Unit %Rec

Limits 0.012 0.100 Phosphorus 0 119 mg/L 107 90 110

Lab Sample ID: 640-38182-E-1-B DU **Client Sample ID: Duplicate**

Matrix: Water

Analysis Batch: 91646

Prep Batch: 91613 Sample Sample DII DII RPD Result Qualifier Result Qualifier D RPD Limit Analyte Unit Phosphorus 0.012 0.0116 mg/L 30

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

Lab Sample ID: MB 660-123237/1 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 123237

мв мв

MDL Unit Result Qualifier POL Dil Fac Analyte D Prepared Analyzed **Total Suspended Solids** 1.0 Ū 1.0 1.0 mg/L 04/12/12 07:25

Lab Sample ID: LCS 660-123237/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 123237

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

Prep Batch: 91613

Prep Type: Total/NA

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

Client Sample ID: Duplicate
Prep Type: Total/NA

Analysis Batch: 123237

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

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TestAmerica Job ID: 660-46994-1

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

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

TestAmerica Job ID: 660-46994-1

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

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

 $\label{linear_continuity} \textbf{Client: AMEC Environment \& Infrastructure, Inc.}$

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	

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Lab Sample ID: 660-46994-1

Matrix: Water

Date Collected: 04/06/12 07:45 Date Received: 04/07/12 08:30

Client Sample ID: 1A

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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 TAN
Total/NA	Analysis	SM 2540D		1	123237	04/12/12 07:25	ТО	TAL TAN
Total/NA	Prep	351.2			123230	04/11/12 18:00	TO	TAL TAN
Total/NA	Analysis	351.2		1	123283	04/12/12 17:51	TO	TAL TAI
Total/NA	Analysis	Total Nitrogen		1	123400	04/17/12 14:20	RWF	TAL TAN

Lab Sample ID: 660-46994-3 Client Sample ID: 7B Date Collected: 04/06/12 08:30 **Matrix: Water**

Date Received: 04/07/12 08:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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	ТО	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

	Batch	Batch		Dilution	Batch	Prepared		
	Туре	Method	Run	Factor	Number	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

Client Sample ID: Alley

Date Collected: 04/06/12 10:00

Date Received: 04/07/12 08:30

TestAmerica Job ID: 660-46994-1

Lab Sample ID: 660-46994-7

Matrix: Water

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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	ТО	TAL TAM
Total/NA	Prep	351.2			123230	04/11/12 18:00	то	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

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TestAmerica Job ID: 660-46994-1

P330-10-00139

P-Soil-01

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P330-08-00158

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

USDA

USDA

Utah

Virginia

Wisconsin

Florida

Louisiana

New Jersey

Oklahoma

Texas

USDA

West Virginia DEP

TestAmerica Pittsburgh

TestAmerica Pittsburgh

TestAmerica Pittsburgh

TestAmerica Pittsburgh

TestAmerica Pittsburgh

TestAmerica Pittsburgh

TestAmerica Tallahassee

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Laboratory Authority Program **EPA Region Certification ID** Alabama State Program 40610 TestAmerica Tampa TestAmerica Tampa Florida **NELAC** 4 E84282 TestAmerica Tampa Georgia State Program 4 905 TestAmerica Tampa USDA Federal P330-11-00177

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Arkansas DEQ 6 TestAmerica Pittsburgh State Program 88-0690 California **NELAC** 9 4224CA TestAmerica Pittsburgh Connecticut PH-0688 TestAmerica Pittsburgh State Program 1 TestAmerica Pittsburgh Florida **NELAC** E871008 TestAmerica Pittsburgh Illinois **NELAC** 5 002602 TestAmerica Pittsburgh Kansas **NELAC** 7 E-10350 TestAmerica Pittsburgh L-A-B DoD ELAP L2314 TestAmerica Pittsburgh **NELAC** 6 04041 Louisiana TestAmerica Pittsburgh **NELAC** 203011 New Hampshire 2 TestAmerica Pittsburgh New Jersey **NELAC** PA005 TestAmerica Pittsburgh **NELAC** 2 11182 New York TestAmerica Pittsburgh North Carolina DENR State Program 4 434 TestAmerica Pittsburgh Pennsylvania **NELAC** 3 02-00416 TestAmerica Pittsburgh 3 02-416 Pennsylvania State Program TestAmerica Pittsburgh South Carolina State Program 89014002

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State Program

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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	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.

TestAmerica Job ID: 660-46994-1

Project/Site: City of Naples Stormwater

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	Allev	Water	04/06/12 10:00	04/07/12 08:30

Lab Project #: F1204081

Page I of ______

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 813-885-7427

Phone: Fax:

E-mail:

Project Name:

MACTEC

QUALIFIER DEFINITIONS

B: Results based upon colony counts outside the acceptable range.

1: 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

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5/4/2012

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SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Lab ID Sample Description

Page: Page 4 of 5

Client Project: MACTEC

Lab Project: F1204081

Report Date: 04/11/12

								Report Date:	04/11/12		
<u>Lab ID</u> F1204081-18	Sample D	escription			Matr Surface		m ple Type GRAB	Received Date 4/5/12 12:3		u ple Date 4/5/12 10:2	
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>
Enterococcus, MPN		185		1	1	MPN/100ml	Enterolert	FB120410005	4/5/12 13:50	LV	E85457
Fecal Coliform, MF		1080	В	90	90	CFU/100ml	SM9222D	FB120410002	4/5/12 13:15	LV	E85457
Labild	Sample D	escription			Matr	ix Sai	mple Type	Received Date	e/Time San	uple Date	Time -
F1204081-19	11B		22.3%		Surface	Water	GRAB	4/5/12 12:3	10	4/5/12 10:4	15
<u>Parameter</u>		Result	Qual	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>
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
alabalda.	- American Control of the Control of	escription			Matr		mple:Type	Received Date	/Time San		
F1204081-20	11 PUMP				Surface	Water	GRAB	4/5/12 15:1	.5	4/5/12 11:4	15
<u>Parameter</u>		Result	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN		1730		1	1	MPN/100ml	Enterolert	FB120410005	4/5/12 15:30	LV	E85457
Fecal Coliform, MF		9910	В	90	90	CFU/100ml	SM9222D	FB120410004	4/5/12 15:30	LV	E85457
[Edb40]		escription			Matr		mple Type	Received Date		nple Date/	THE PURE OF THE PROPERTY OF THE PARTY OF THE
F1204081-21	BC				Surface	Water	GRAB	4/5/12 15:1	5	4/5/12 12:4	15
<u>Parameter</u>		Result	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
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
	The same of the sa	escription			Matr	AND THE PROPERTY OF THE PROPERTY OF THE PARTY OF THE PART	mple Type	Received Date		nple Date	MERCHANISM AND PROPERTY OF THE PARTY OF THE
F1204081-22	1A				Surface	Water	GRAB	4/6/12 12:3		4/6/12 7:4	3
<u>Parameter</u>		Result	Qual	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	Analysis Date/Time	Anaiyst	<u>Lab ID</u>
Enterococcus, MPN		96		1	1	MPN/100ml	Enterolert	FB120411006	4/6/12 13:00	LV	E85457
Fecal Coliform, MF		180	В	90	90	CFU/100ml	SM9222D	FB120411005	4/6/12 12:30	LV	E85457
Eab 10 F1204081-23	Sampled) 3B	escription			Matr Surface		nple-Lype GRAB	Received Data 4/6/12 12:3		n ple Date / 4/6/12 8:1	
<u>Parameter</u>		Result	Qual	MDL.	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>
Enterococcus, MPN		140		1	1	MPN/100ml	Enterolert	FB120411006	4/6/12 13:00	LV	E85457
Fecal Coliform, MF		1440	В	90	90	CFU/100ml	SM9222D	FB120411005	4/6/12 12:30	LV	E85457

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

Matrix Sample Expe Received Date/Fime Sample Date/Fime

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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

								Report Date:	04/11/12		
Lab ID F1204081-24	Sample 1 7B	Description	l		Mati Surface		mple Type GRAB	Received Dat 4/6/12 12:		nple Date 4/6/12 8:3	
<u>Parameter</u>		Result	<u>Qual</u>	MDL	POL	<u>Units</u>	Method	Batch #	Analysis Date/Time	<u>Analyst</u>	<u>Lab ID</u>
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
J aby D.	Sample	Description	1====		Matr	ix Sa	mple-lavne	Received Dat	e/Lime Sar	aple Date	Time
F1204081-25	8B	Service Commonweal Common Service Common Service Common Co	Oggodowa - Karania - Azorowa - Pratici	- colore de semando admitinto grapales, esperados de ca-	Surface		GRAB	4/6/12 12:	30	4/6/12 9:0	00
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>
Enterococcus, MPN		270		1	1	MPN/100ml	Enterolert	FB120411006	4/6/12 13:00	LV	E85457
Fecal Coliform, MF		100	U	100	100	CFU/100mi	SM9222D	FB120411005	4/6/12 12:30	LV	E85457
a sala a sal	Sample I	Description			Mati	ix Su	nple Type	Received Dat	e/Time==Sat	iple Date	Time
F1204081-26	9B		Age minor is a dynamic ship it says .	in the second	Surface	Water	GRAB	4/6/12 12:	30	4/6/12 9:1	5
<u>Parameter</u>		Result	Qual	MDL	PQL	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
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
Jais II)	Sample I	Description	l i		Matr	fx Sa	mple Lype	Received Dat	e/Eime Saı	iple Date	Time
F1204081-27	10B				Surface	Water	GRAB	4/6/12 12:3	30	4/6/12 9:3	0
<u>Parameter</u>		Result	<u>Qual</u>	MDL	POL	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN		182		1	1	MPN/100ml	Enterolert	FB120411006	4/6/12 13:00	LV	E85457
Fecal Coliform, MF		721	В	90	90	CFU/100ml	SM9222D	FB120411005	4/6/12 12:30	LV	E85457
	Sample)escription			Matr	ix Sa	mple://aypre	Received Date	o/Pime Sar	iple Date	#Imre
F1204081-28	ALLEY				Surface	Water	GRAB	4/6/12 12:3	30	4/6/12 10:0	00
<u>Parameter</u>		Result	Qual	MDL	PQL	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>
Enterococcus, MPN		100	U	100	100	MPN/100ml	Enterolert	FB120411006	4/6/12 13:00	LV	E85457
Fecal Coliform, MF		2160	В	90	90	CPU/100ml	SM9222D	FB120411005	4/6/12 12:30	LV	E85457

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

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<u>TestAmerica</u>

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

Jy John

Authorized for release by: 5/3/2012 1:17:44 PM

Jeremy Sadler
Project Manager
jeremyr.sadler@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.

Page 31 of 52 5/4/2012

Client: TestAmerica Tampa Project/Site: 660-46994

Table of Contents

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Definitions/Glossary

Client: TestAmerica Tampa Project/Site: 660-46994

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: G2D100422

Glossary

TEQ

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)

Case Narrative

TestAmerica West Sacramento Project Number G2D100422

WATER, 1694, Caffine

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.

19 : 52 4

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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



















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 - Pharmac	euticals, 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)
		3C3-Caffein	
Lab Sample ID	Client Sample ID	(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)
		ucralose-d	
Lab Sample ID	Client Sample ID	(25-150)	
G2D100422001	ALLEY (660-46994-7)	68	
G2D190000139B	Method Blank	93	
G2D190000139C	Lab Control Sample	117	
Surrogate Legend			
Sucralose-d6 = Sucrale	ose-d6		



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TestAmerica Job ID: G2D100422

Client: TestAmerica Tampa Project/Site: 660-46994

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

Lab Sample ID: G2D110000077B Client Sample ID: Method Blank
Matrix: Water Prep Type: Total

Matrix: water

Analysis Batch: 2102077

MB MB

Analyte Qualifier RL MDL Unit D Analyzed Result Prepared Dil Fac 50 Caffeine 04/11/12 09:25 04/14/12 13:25 ND 13 ng/L MB MB

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 13C3-Caffeine
 44
 25 - 150
 04/11/12 09:25
 04/14/12 13:25
 1

Lab Sample ID: G2D110000077C Client Sample ID: Lab Control Sample
Matrix: Water Prep Type: Total

Analyte Added Result Qualifier Unit D %Rec Limits

Caffeine 100 89.3 ng/L 89 60 - 140

Lab Sample ID: G2D190000139B Client Sample ID: Method Blank
Matrix: Water Prep Type: Total

Analysis Batch: 2110139

Prep Batch: 2110139_P

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Sucralose
 ND
 500
 250
 ng/L
 04/19/12 14:30
 04/24/12 23:55
 1

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 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

Spike

LCS LCS

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

 Analyte
 Added
 Result Sucralose
 Qualifier Unit
 D mg/L
 %Rec Limits

 Sucralose
 500
 622
 ng/L
 124
 60 - 140

 Surrogate
 %Recovery
 Qualifier
 Limits

 Sucralose-d6
 117
 25 - 150

QC Association Summary

Client: TestAmerica Tampa Project/Site: 660-46994 TestAmerica Job ID: G2D100422

HPLC

	Ana	lysis	Batc	h: 21	0207
--	-----	-------	------	-------	------

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	

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Lab Chronicle

Client: TestAmerica Tampa Project/Site: 660-46994

TestAmerica Job ID: G2D100422

Lab Sample ID: G2D100422001

Matrix: Water



Date Collected: 04/06/12 10:00 Date Received: 04/10/12 08:55

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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
FestAmerica West Sacramento	California	NELAC	9	1119CA
TestAmerica West Sacramento	Colorado	State Program	8	N/A
estAmerica West Sacramento	Connecticut	State Program	1	PH-0691
estAmerica West Sacramento	Florida	NELAC	4	E87570
estAmerica West Sacramento	Georgia	State Program	4	960
estAmerica West Sacramento	Guam	State Program	9	N/A
estAmerica West Sacramento	Hawaii	State Program	9	N/A
estAmerica West Sacramento	Illinois	NELAC	5	200060
estAmerica West Sacramento	Kansas	NELAC	7	E-10375
estAmerica West Sacramento	Louisiana	NELAC	6	30612
estAmerica West Sacramento	Michigan	State Program	5	9947
estAmerica West Sacramento	Nevada	State Program	9	CA44
estAmerica West Sacramento	New Jersey	NELAC	2	CA005
estAmerica West Sacramento	New Mexico	State Program	6	N/A
estAmerica West Sacramento	New York	NELAC	2	11666
estAmerica West Sacramento	Northern Mariana Islands	State Program	9	MP0007
estAmerica West Sacramento	Oregon	NELAC	10	CA200005
estAmerica West Sacramento	Pennsylvania	NELAC	3	68-01272
estAmerica West Sacramento	South Carolina	State Program	4	87014
estAmerica West Sacramento	Texas	NELAC	6	T104704399-08-TX
estAmerica West Sacramento	US Fish & Wildlife	Federal		LE148388-0
estAmerica West Sacramento	USDA	Federal		P330-09-00055
estAmerica West Sacramento	Utah	NELAC	8	QUAN1
estAmerica West Sacramento	Virginia	State Program	3	178
estAmerica West Sacramento	Washington	State Program	10	C581
estAmerica West Sacramento	West Virginia	State Program	3	9930C
estAmerica West Sacramento	West Virginia DEP	State Program	3	334
estAmerica 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.

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Method Summary

Client: TestAmerica Tampa Project/Site: 660-46994 TestAmerica Job ID: G2D100422

MethodMethod DescriptionProtocolLaboratory1694Pharmaceuticals, HPLC/MS/MS (1694)CFR136ATAL 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: 660-46994 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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Chain of Custody Record

N - None
O - Ashab2
P - Na204S
Q - Na205
R - Na2855S03
S - H2804
I - TSP Dodecalydrate
U - Acetone Z V - MCAA. W - ph 4-5 Z - other (specify) Special Instructions/Note: E Company Months Company Sample Disposal (A fee may be assessed if samples are retained fonger than 1 month)

Return To Client Disposal By Lab Archive For Mont Preservation Codes 3 E H - Ascorbic Acid Job #: 660-46994-1 COC No: 660-44025.1 A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 Page: Page 1 of 1 I - Ice J - DI Water K - EDTA L - EDA F - MeOH 41412 Total Number of containers Date/Time: Method of Shipment Carrier Tracking No(s): Analysis Requested Special Instructions/QC Requirements: Lab PM: Robertson, Nancy E-Mait: nancy.robertson@testamericainc.com Received by received by: Received by: SUBCONTRACTI Caffeine, Succelose × Perform MS/MSD (Yes or No) Time: Field Fillered Sample (Yes or No) BT=Tissue, A=Air {W=water, S=solid, O=waste/oil, Water Matrix Preservation Code: Company Company G=grab) Type (C=comp, Sample Sample 10:00 Eastern Time Date: [AT Requested (days): Due Date Requested: 4/16/2012 Sample Date 4/6/12 Project #: 66003057 SSOW#: Sampler: Date/Time; Phone: ₩O# Client Information (Sub Contract Lab) Deliverable Requested: I. II, III, IV, Other (specify) Sample Identification - Client ID (Lab ID) Possible Hazard Identification Sompany: TestAmerica Laboratories, Inc. Project Name: City of Naples Stormwater Empty Kit Relinquished by Address: 880 Riverside Parkway, Client Contact: Shipping/Receiving Alley (660-46994-7) Phone: 916-373-5600(Tel) West Sacramento elinquished by: definquished by: elinquished by: State, Zip: CA, 95605 Unconfirmed 5/3/2012 5/4/2012

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Sooler Temperature(s) "C and Other Remarks:

NO 250

Custody Seaf No.:

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TestAmerica Tampa

6712 Benjamin Road Suite 100

Tampa, FL 33634 Phone (813) 885-7427 Fax (813) 885-7049

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Chain of Custody Record

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0 - AsNa02
P - Na2045
Q - Na2503
R - Na25503
R - Na25504
T - TSP Dodecahydrate
U - Acetone
V - McCAA
W - ph 4-5
Z - other (specify) Special Instructions/Note: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Company Preservation Codes G - Amchtor H - Ascorbic Acid 250 COC No: 660-44366.1 A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4 660-46994-1 Page 1 of 1 Archive For Total Number of containers Date Time | Date of the last Date/Time: Aethod of Shipment Disposal By Lab Analysis Requested Cooler Temperature(s) "C and Other Remarks: Special Instructions/QC Requirements: E-Mait: nancy,robertson@testamericainc.com Return To Client Received by: Received by: Received by Lab PM: Robertson, Nancy 114 SUBCONTRACTI Caffeine, Sucralose (eM to sex) GSM/SM intoher Time: {W=water, S=solid, O=wastefoll, Preservation Code Matrix Water Company Type (C=comp, Sample G=grab) Sample Time 10:00 Date: (AT Requested (days): Due Date Requested: 4/16/2012 Sample Date 4/6/12 Project #: 66003057 SSOW#: Date/Time: Sampler: Phone: # O/V Client Information (Sub Contract Lab) Deliverable Requested: I, II, III, IV, Other (specify) Custody Seals Intact: | Custody Seal No.: Sample Identification - Client ID (Lab ID) Possible Hazard Identification estAmerica Laboratories, Inc. Expety Kit Relinquished by: Project Name: City of Naples Stormwater Address: 880 Riverside Parkway. Shipping/Receiving Phone: |916-373-5600(Tel) Alley (660-46994-7) City: West Sacramento Retinquished by: Unconfirmed State, Zlp: CA, 95605

₄4 ₅5

77 88 99

13

TestAmerica Tampa

6712 Benjamin Road Suite 100

Tampa, FL 33634 Phone (813) 885-7427 Fax (813) 885-7049

Page 15 of 19 Page 45 of 52



LOT RECEIPT CHECKLIST TestAmerica West Sacramento

CLIENT	TAL TAN	IPA			PM_	JS
LOT# (QUANTIMS ID)	G2D1	00422	QUOTE#	35474	LOCATION_	W170
DATE RECEIVED	4/10/12	TIME RECEI	VED	855	_	Checked (✓
DELIVERED BY		ON TRAC	;	OTHER		
☐ GOLDENSTATE	□UPS	☐ EZ PARC	EL			
☐ TAL COURIER	☐ TAL SF	☐ CLIENT				\checkmark
SHIPPPING CONTAIN	NER(S)	ıL 🗆 C	LIENT N	J/A		
	MULI	Γ-COOLER(S)	(If checked see	multi-cooler form)		
SINGLE COOLER INF	FORMATION				N/A	
CUSTODY SEAL STA	TUS 🗹 INTACT	BROKEN	□ N/A			\checkmark
CUSTODY SEAL #(S)		509	9486		<u> </u>	
COC #(S)		660-44025	.1			\checkmark
TEMPERATURE BLA	NK Observed:	NA	Corrected:_	NA	<u></u>	
SAMPLE TEMPERAT Observed: 2.0	Average		•	1.6		
LABORATORY THEF IR UNIT: #4 🗹		□ OTHER				\checkmark
πτ σιν ιτι. π-τ γ -	# U	□ OIIIEII_			JS	4/10/12
						ate
pH MEASURED						✓
LABELED BY LOGGED IN BY				10	_	√
				<u> </u>	<u> </u>	¥
SHORT HOLD TEST	NOTIFICATION		SAMPLE RE WETCHEM			√
			VOA-ENCO	☑ N/A RES ☑ N/A		▼
☐ METALS NOT	FIED OF FILTER/PF	RESERVE VIA	VERBAL & EMA	AIL ₩ N/A		\checkmark
	HIPMENT RECEIVE EMPERATURES, CO					\checkmark
☐ CLOUSEAU ☑ WET ICE	☐ TEMPERA☐ BLUE ICE	TURE EXCEEI	DED (0 °C − 6 °C K □ NO COO	C) ^{*1}	SED	
					JS	1/10/12
Notes <u>Additional sa</u>	mple volume was	rocoived on	1/10/12 at 1	Initials		e
rvotes <u>Auditional Sa</u>	mpie volume was	i ieceiveu oli	<u>+/ 13/ 1∠ at 1.</u>	i degree C. Jo) ' /	

^{*1} Acceptable temperature range for State of Wisconsin samples is \leq 4°C.

	•
I OCT A	merica
10017	

Bottle Lot Inventory

Lot G2D100422 ID: THE LEADER IN ENVIRONMENTAL TESTING 16 | 17 | 2 3 4 5 6 7 8 9 10 11 12 13 14 15 18 19 20 VOA* VOAh* **VOAmeoh** AGB **AGBs** 250AGB 250AGBs 250AGBn 500AGB _AGJ 500AGJ 250AGJ 125AGJ 125AGJmeoh CGJ 500CGJ 250CGJ 125CGJ ΡJ PJn 500PJ 500PJn 500PJna 500PJzn/na 250PJ 250PJn 250PJna 250PJzn/na Acetate Tube "CT Encore Folder/filter PUF Petri/Filter XAD Trap Ziploc

7 \mathbf{h} = hydrochloric acid \mathbf{s} = sulfuric acid \mathbf{na} = sodium hydroxide \mathbf{n} = nitric acid zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's

4

5

6

2

3

QA-185 10/09 RKE, Page 2

14 | 15 | 16 | 17 | 18 | 19 | 20

10 | 11 | 12 | 13

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

Part # 156 (#8-434 RIT2 07/11

TEST AMERICA/SACRAMENTO 880 RIVERSIDE PARKWAY

CUSTODY
WEST SACRAMENTO CA 956051500
PORT WORKSHARE SAMPLES
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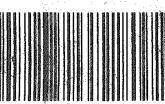


TRK# 5269 1727 4480

TUE - 10 APR A1 STANDARD OVERNIGHT

BLUA

95605 CA-US SMF *



13

1114

BILL RECIPIENT

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

TO

TEST AMERICA/SACRAMENTO 880 RIVERSIDE PARKWAY CUSTODY

WEST SACRAMENTO CA 956051500
(916) 973-5600
DEPT: WORKSHARE SAMPLES



FedEx Express

TRK# 5269 1727 4972

THU - 19 APR STANDARD OVERNIGHT

95605 SMF CA-US





TestAmerica Tampa6712 Benjamin Road Suite 100
Tampa, FL 33634
Phone (813) 885-7427 Fax (813) 885-7049

Chain of Custody Record

<u> </u>	
5 8 2 K	
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23 xmms.	
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(1)	
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TESTANO	
5 # 1	

Custody Seals Intact: Custody Seal No.: A Yes A No	-	Relinguished to to took	Relinquished by:	inquished by:		Non-Hazard Flammable Skin Irritant Poison B	Possible Hazard Identification					ALLEY	10 B		82	73	U IS	A H		Sample Identification Sar	Ste: SSOW#:	City of Naples Stormwater 6600	actec.com	64-8483(Tel)	FL, 34104	Napres State, Zip:		Address: Due I 222 Industrial Blvd., Suite 155	e E&I, Inc	Client Contact Phone Mr. Tom Bates	
:		Date/Time:/6/12 17/	Date/Time:	Date:		Unknown]					₩ /000	930	1 915	1 700) 830	(815	4/6/12/745	<u> </u>	Sample Date Time	N#:	66003057	} -	201103312 WO#:			TAT Requested (days):	Due Date Requested:		Phone: 239 564	Sam Alden
	:	715 Company	Company			Radiological		Water	Water	Water	Water	○ Water) (Water) Water	/ Water) / Water	(Water) (i) Water	Preservation Code:	0.3 4	-							tanderd		8483	1-12-12 E
Coder Temperatuse(s) C and Other Remarks:	Reserved by:	Received by:	Received by: They ted	Time:	Special Instructions/QC Requirements:	Return To Client	Sample Disposal (A fee may be		-			< < < < < < × × × × × × × × × × × × × ×						N X X X X X		Field Filterec RegionniMS/ 200.8 - Copper 365.1 - Phospi 351.2, 353.2 2540D - Total	MSD () norus Suspen	ded S	ollds	and Fe					Analysis Re	E-Mail: nancy.robertson@testamericainc.com	Robertson, Nancy
Premarks:	Date/Time:	イルのの Detectione:	FedEX Date/Time: 3/30/12	Method of Shipment:	ents:	Disposal By Lab Archive For	be assessed if samples are retained						\$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					14 A	X	Total Numbe				13 m					Requested	77 77	Carrier Tracking Nots):
	Company	20 months 068	1600 Company EC			re For Months	d longer than 1 month)		FORT MYERS	SANDERS LAB,	DELIVERED 70	BAC'TS WERE			:					Special Instructions/Note:	Other:		J-DI Water V-MCAA K-EDTA W-ph 4-5	H - Ascerbic Acid T - TSP Dodecahydrate I - Ice U - Acerone			т.	δ.	660-40994	Page 4 of 7	660-40477-13160,4

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-46994-1

Login Number: 46994 List Source: TestAmerica Tampa

List Number: 1

Creator: Edwards, Erricka

Answer	Comment
N/A	
True	
True	
True	
True	2.1,2.6c CU-07
True	
N/A	
True	
N/A	
N/A	
	N/A True True True True True True True True

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Client: AMEC Environment & Infrastructure, Inc. Job Number: 660-46994-1

Login Number: 46994 List Source: TestAmerica Tallahassee List Number: 1 List Creation: 04/11/12 03:32 PM

Creator: Mitchell, Travis X

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	

5/4/2012





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
Total Access

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

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

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.
1	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

TEF

TEQ

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

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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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Client: AMEC Environment & Infrastructure, Inc. Project/Site: City of Naples Stormwater 2012

Lab Sample ID: 660-48691-1

Lab Sample ID: 660-48691-2

Lab Sample ID: 660-48691-3

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
Nitrogen, Kjeldahl	0.86		0.20	0.15	mg/L	1		351.2	Recoverable Total/NA
Nitrate Nitrite as N	0.047	1	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	ma/L	1		Total Nitrogen	Total/NA

Client Sample ID: 11 PUMP

Client Sample ID: 14 PUMP

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

	Onem Campic ID: 1 11 1 Oil
- 1	Analyte

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 Nitrogei	n Total/NA

Client: AMEC Environment & Infrastructure, Inc. Project/Site: City of Naples Stormwater 2012

Client Sample ID: 14 PUMP

Date Collected: 07/05/12 11:45 Date Received: 07/06/12 08:50

Lab Sample ID: 660-48691-1

Matrix: Water

Matrix: Water

Matrix: Water

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	Decult	Ovalities.	DO!	MDI	I I mid	ь	Drawavad	Analysis	Dil Faa
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	1	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

Date Received: 07/06/12 08:50

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 Recove	rable							
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 Date Received: 07/06/12 08:50

Method: 200.8 - Metals (ICP/MS) - Total F	Recove	rable							
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	8.2	<u>v</u>	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

Analyte	Result Q	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

2

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

Matrix: Water Prep Type: Total

			Percent Surrogate Recovery (Acceptance Limits)
		3C3-Caffein	
Lab Sample ID	Client Sample ID	(25-150)	
660-48691-2	11 PUMP	122	
G2G090000140B	Method Blank	38	
G2G090000140C	Lab Control Sample	44	
Surrogate Legend			
13C3-Caffeine = 13C3	3-Caffeine		

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

%Recovery Qualifier

Lab Sample ID: G2G090000140B Matrix: Water										Client Sa	ample ID: Metho Prep Tyj	
Analysis Batch: 2191140											Prep Batch: 21	91140 P
	MB	MB										_
Analyte	Result	Qualifier	RL		MDL	Unit		D	Р	repared	Analyzed	Dil Fac
Caffeine	ND		50		13	ng/L		_	07/0	9/12 19:00	07/24/12 23:20	1
	МВ	MB										
Surrogate	%Recovery	Qualifier	Limits						P	repared	Analyzed	Dil Fac
13C3-Caffeine	38		25 - 150						07/0	9/12 19:00	07/24/12 23:20	1
Lab Sample ID: G2G090000140C								C	lient	Sample	ID: Lab Control	Sample
Matrix: Water											Prep Ty	oe: Total
Analysis Batch: 2191140											Prep Batch: 21	91140 P
			Spike	LCS	LCS						%Rec.	_
Analyte			Added	Result	Qual	ifier	Unit		D	%Rec	Limits	
Caffeine			100	70.3			ng/L			70	60 - 140	
	LCS LCS	;										

Limits

25 - 150

Method: 200.8 - Metals (ICP/MS)

Surrogate

13C3-Caffeine

Lab Sample ID: MB 180-41348/1-A											Client Sa	ample ID: Metho	d Blank
Matrix: Water											Prep 1	Type: Total Reco	overable
Analysis Batch: 41591												Prep Batcl	h: <mark>4134</mark> 8
	MB	MB											
Analyte	Result	Qualifier		PQL		MDL	Unit		D	Pi	repared	Analyzed	Dil Fac
Copper	0.524	I		2.0		0.14	ug/L		_	07/1	1/12 10:29	07/12/12 16:31	1
Lab Sample ID: LCS 180-41348/2-A									С	lient	Sample	ID: Lab Control	Sample
Matrix: Water											Prep 1	ype: Total Reco	overable
Analysis Batch: 41591												Prep Batcl	h: 41348
•			Spike		LCS	LCS						%Rec.	
Analyte			Added		Result	Qua	lifier	Unit		D	%Rec	Limits	
Copper			250		220			ug/L		_	88	85 - 115	
- Lab Sample ID: 180-12207-E-1-B MS											Client S	Sample ID: Matr	ix Spike
Matrix: Water												ype: Total Reco	
Analysis Batch: 41591												Prep Batcl	

Analysis Batch: 41591									Prep	Batch: 41348
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	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						Client Sa	ample IC): Matrix Sp	oike Dup	licate
Matrix: Water								Prep	Type: Tota	I Recov	erable
Analysis Batch: 41591									Prep	Batch:	41348
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Copper	2.2	V	250	221		ug/L		88	70 - 130	2	20

Client: AMEC Environment & Infrastructure, Inc. Project/Site: City of Naples Stormwater 2012

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 680-243447/2-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA Analysis Batch: 243566 Prep Batch: 243447

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Result Qualifier PQL MDL Unit D Prepared Dil Fac Analyte Analyzed 0.20 0.15 mg/L 07/16/12 08:35 Nitrogen, Kjeldahl 0.15 U 07/17/12 13:00

Lab Sample ID: LCS 680-243447/1-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA Analysis Batch: 243566 Prep Batch: 243447 LCS LCS Spike

Analyte Added Result Qualifier Unit %Rec Limits Nitrogen, Kjeldahl 2.00 1.67 mg/L 83 75 - 125

Lab Sample ID: 460-42085-A-1-B MS Client Sample ID: Matrix Spike Matrix: Water Prep Type: Total/NA

Analysis Batch: 243566 Prep Batch: 243447 Spike MS MS Sample Sample %Rec. Result Qualifier Added Result Qualifier Unit D %Rec Limits J3 2.00 2.97 J3 75 _ 125 Nitrogen, Kjeldahl 19 mg/L

Lab Sample ID: 460-42085-A-1-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Water** Prep Type: Total/NA Analysis Batch: 243566 **Prep Batch: 243447** Sample Sample Spike MSD MSD %Rec. RPD

Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits RPD Limit 1.9 J3 2.00 75 - 125 Nitrogen, Kjeldahl 3.79 mg/L 93 24 40

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 680-243634/13 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 243634

MR MR Result Qualifier PQL MDL Unit Prepared Dil Fac Analyte Analyzed 0.050 Nitrate Nitrite as N 0.010 Ū 0.010 mg/L 07/18/12 10:19

Lab Sample ID: LCS 680-243634/14 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 243634

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Nitrate Nitrite as N 0.998 1.05 mg/L 105 90 - 110

Lab Sample ID: 200-11662-B-1 MS Client Sample ID: Matrix Spike **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 243634

Spike Sample Sample MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Nitrate Nitrite as N 0.027 I 0.998 1.11 mg/L 108 90 - 110

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Client: AMEC Environment & Infrastructure, Inc. Project/Site: City of Naples Stormwater 2012

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

Comple Comple

Lab Sample ID: 200-11662-B-1 MSD	Client Sample ID: Matrix Spike Duplicate
Matrix: Water	Prep Type: Total/NA
Analysis Batch: 243634	

	Jampie	Janipie	Opike	WISD	WIOD				/ortec.		KFD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Nitrate Nitrite as N	0.027	I	0.998	1.10		mg/L		108	90 - 110	1	10	

MCD MCD

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Lab Sample ID: 640-39446-A-2 DU **Client Sample ID: Duplicate Matrix: Water** Prep Type: Total/NA

Analysis Batch: 243634

	Sample	Sample	DU	DU				RPD	
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	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	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total/NA
Analysis Batch: 94446	Prep Batch: 94412

MR MR

Analyte	Result	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 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA Analysis Batch: 94446 Prep Batch: 94412

	Spike	DLCK D	LCK			%Rec.	
Analyte	Added	Result Q	ualifier Unit	D	%Rec	Limits	
Phosphorus	0.00200	0.0044 U	mg/L		83	70 - 130	

Lab Sample ID: LCS 640-94412/5-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA Prep Batch: 94412 **Analysis Batch: 94446**

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Phosphorus	0.300	0.296		mg/L		99	90 - 110	

Lab Sample ID: LCSD 640-94412/6-A Client Sample ID: Lab Control Sample Dup **Matrix: Water** Prep Type: Total/NA Analysis Batch: 94446 Prep Batch: 94412 LCSD LCSD Spike %Rec.

Analyte	Added	Result	Qualifier	Unit	ט	%Rec	Limits	RPD	Limit	
Phosphorus	0.300	0.303		mg/L		101	90 - 110	2	30	
Lab Sample ID: 180-12569-A-1-B MS						Client	Sample ID	: Matrix	Snike	

Matrix: Water Prep Type: Total/NA Analysis Batch: 94446 Prep Batch: 94412

1	7 many old Batolin o 1 1 10										- Dato	•
l		Sample	Sample	Spike	MS	MS				%Rec.		
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
	Phosphorus	0.028	J3	0.300	0.388	J3	mg/L		120	90 - 110		

07/11/12 06:29

Client: AMEC Environment & Infrastructure, Inc. Project/Site: City of Naples Stormwater 2012

Lab Sample ID: 180-12569-A-1-C MSD

Matrix: Water

Analysis Batch: 94446

Total Suspended Solids

Method: 365.1 - Phosphorus, Total (Continued)

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 94412

	Sample	Sample	Spike	MPD	MISD				%Rec.		KPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	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 Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA Analysis Batch: 126463

мв мв Result Qualifier PQL MDL Unit Analyte D Prepared Analyzed Dil Fac

1.0 Lab Sample ID: LCS 660-126463/2 **Client Sample ID: Lab Control Sample**

1.0 mg/L

Matrix: Water Prep Type: Total/NA

Analysis Batch: 126463 LCS LCS Spike %Rec.

1.0 U

Analyte Added Result Qualifier Unit %Rec Limits Total Suspended Solids 101 97 97.6 mg/L 80 - 120

Lab Sample ID: 660-48691-3 DU **Client Sample ID: PW PUMP**

Matrix: Water Prep Type: Total/NA Analysis Batch: 126463

DU DU RPD Sample Sample

Result Qualifier Result Qualifier Limit Unit **RPD** Total Suspended Solids 7.6 9.20 19 20 mg/L

TestAmerica Tampa 7/30/2012

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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

TestAmerica Tampa 7/30/2012

Client: AMEC Environment & Infrastructure, Inc. Project/Site: City of Naples Stormwater 2012

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
LCSD 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	

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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	

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Client: AMEC Environment & Infrastructure, Inc. Project/Site: City of Naples Stormwater 2012

Lab Sample ID: 660-48691-1

Matrix: Water

Client Sample ID: 14 PUMP Date Collected: 07/05/12 11:45

Date Received: 07/06/12 08:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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

	Batch	Batch	Dilution	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Number	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

Date Collected: 07/05/12 13:40

Lab Sample ID: 660-48691-3

Matrix: Water

Date Collected: 07/05/12 13:40 Date Received: 07/06/12 08:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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

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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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Client: AMEC Environment & Infrastructure, Inc. Project/Site: City of Naples Stormwater 2012

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
Ilinois	NELAC	5	200022	11-30-12
Indiana	State Program	5	N/A	06-30-12
lowa	State Program	7	353	07-01-13
Kentucky	State Program	4	90084	12-31-12
Kentucky (UST)	State Program	4	18	02-28-13

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Client: AMEC Environment & Infrastructure, Inc. Project/Site: City of Naples Stormwater 2012

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 01-31-14	
A2LA	DoD ELAP		2928-01		
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	

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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 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 08-31-12	
Guam	State Program	9	N/A		
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	

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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

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Sample Summary

Matrix

Water

Water

Water

Client: AMEC Environment & Infrastructure, Inc. Project/Site: City of Naples Stormwater 2012

Client Sample ID

14 PUMP

11 PUMP

PW PUMP

Lab Sample ID

660-48691-1

660-48691-2

660-48691-3

TestAmerica Job ID: 660-48691-1

Collected	Received
07/05/12 11:45	07/06/12 08:50

07/05/12 12:30

07/05/12 13:40

3

Received 07/06/12 08:50 07/06/12 08:50

07/06/12 08:50

6

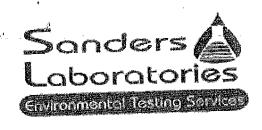
8

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Laboratory Test Report

Lab Project #: F1207079

Page 1 of

All subsequent pages are identified by: F1207079. 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 vour 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:

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.

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: Delta Naples Recycling

Page: Page 1 of 1

Lab Project: F1207079

Report Date: 07/10/12

	nple Description			- Mair Surface	the state of the s	n ple Type GRAB	Received Date 7/5/12 14:5	The state of the s	ple Date/ 7/5/12 11:4	
<u>Parameter</u>	Result	Qual	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	Analysis Date/Time	<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	В	90	90	CFU/100ml	SM9222D	FB120709028	7/5/12 16:15	LV	E85457
Lab LD Sa	mple Deserription			<u>Matr</u> Surface	The second of the second	nple Type GRAB	Received Date 7/5/12 14:5	The state of the s	ple Date/ 7/5/12 12:3	
Parameter	Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	Analysis Date/Time	<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	В	909	909	CFU/100ml	SM9222D	FB120709028	7/5/12 16:15	LV	E85457
Lab ID	mple Description			Mati Surface	A STATE OF THE STA	mple Type GRAB	Received Dat 7/5/12 14:	200 A	n ple Date / 7/5/12 13:4	
<u>Parameter</u>	Result	<u>Qual</u>	MDL	POL	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>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	В	90	90	CFU/100ml	SM9222D	FB120709028	7/5/12 16:15	LV	E85457

Caboratories INC. Sonders

CHAIN-OF-CUSTODY RECORD

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PROJECT FI	-
PR(

City of Algoles

Test America

のななの Report To: Bill To: P.O. #

Nancy

Lest America

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Address

Client

Project Location: Customer Type:_

Project Name:

REQUESTED DUE DATE: 7 1912 ☆ # #

H2SO4 = S, NAOH = SH, NH4CI = NH

Fax

Phone_

Preservative: HCI = H, HNO₃ = N, Na₂S₂O₃ = ST,

	Sample ID#	3 0	480	45.0				DATE	J 2/5 1456				
								SPEED BY ARELIAMON	M. W.	0			
ANALYSES (% CO)		11	7 7	777				ALIME AMME ACCEPTED BY	705/12 1425 M)				
PRESERVATIVES /	Hq GE	>	>					EDYEV//AHFIEIVATION	Jude ,				
	Sample	X 22	12306	V 1340 G				HEINCINISH	1 Stas 1				
BON BOLES, AMER										OKAV 10 FUIN	OLIENT NITION	SAMPLES	
1	A CAMPAIN	14- PUMP	1-PUMP	PW-PUMP						COMMENTS:			43
Sampled By (PRINT)	Sampler Signature	1 C Y			1			ENTILE FOL				7/30	/2012

1050 Endeavor Ct.. Nokomis, Fl 34275-3623 • (941)488-8103 • FAX 484-6774

10090 Bavaria Rd., Fort Myers, FL 33913 • (239) 590-0337 • FAX (239) 590-0536

Δ Yes Δ No	Custody Seals Infact: Custody Seal No.:	Relinquished by:	Relinquished by:	Relinquisted Fame Feder	Empty Kit Relinquished by:	ested: I, II, III, IV, Other (specify)	Possible Hazard Identification Non-Hazard Flammable Skin Irritant						PW PUMP	11 DUMP	14 PUMP		Sample Identification	Site:	Project Name: City of Naples Stormwater 2012	tdbates@mactec.com	Phone: 239-564-8483(Tel)	State, Zip: FL, 34104	City: Naples	Address: 222 Industrial Blvd., Suite 155	Company: AMEC Environment & Infrastructure, Inc.	Client Contact: Mr. Tom Bates	Client Information	6712 Benjamin Road Suite 100 Tampa, FL 33634 Phone (813) 885-7427 Fax (813) 885-7049	TestAmerica Tampa
		Date/Time:	Date/Time:	_	Date:		Poison B Unknown						√ /340	(/230	7/05/2 /145	V	Sample Date Time	SSOW#	Project# 66006041	WO#	Po#: Purchase Order Requested		TAT Requested (days):	Due Date Requested:		Phone: 254-8483	Sampler:		
		Company	Company	1730 Company ME	L		Radiological						િ જ	Water	6 Water	1000000	Sample Matrix Type (w=water, Type Sesolid, (C=Comp, C=westerfort), G=grab) er=resso, Act										Lab PM Rober	Chain of	1
	Cooler Temperature(s)	Received by:	Received by:	Received by:	Time:	Special Instructions/QC	Return To Client						\ \ \ \ \ \ \ \	\ \ \ \ \ \ \ \ \	444		Fleig Elitered Perform MS/ 200.8 - Coppe 365.1 - Phospi 351.2, 353.2, N 2540D - Total	MSD (r horus litroger	res o	r NG)	NO)				Aı	.robertson@testame	Lab PM: Robertson, Nancy	Chain of Custody Record	
0.6 CU-0+	หา			Cof	Method	tC Requirements:	lient Disposal By Lab					-	<	<u>ح</u>	4		- C	CT - En	7	*	and Fed	cal Coli	form		Analysis Requested	ricainc.com	Carrier Tracking No(s):	cord	
4	3	Date/Time:	Date/Time:	Date/Ime:	잌		y Lab Archive For									2	Total Numbe		130000000000000000000000000000000000000	earni esperanch qu	- I O	——————————————————————————————————————	, O m	× .7		. כ		96 30 mm	
		Company	Company	0850 TATTER			e For Months	***				Ft. Myess	Sanders Lab	delivered to	Bac Is were		Special Instructions/Note:	Other:	>	J-DI Water V-MCAA K-EDTA W-ph 4-5	ā.	E - Natio Add		်	100-48691	Pagers of S	COC No: 660-42079-13734.3	THE LEADER IN ENVIRONMENTAL TESTING	

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-48691-1

Login Number: 48691 List Source: TestAmerica Tampa

List Number: 1 Creator: Edwards, Erricka

ordator. Edwards, Erriona		
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	
s 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	

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Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-48691-1

Login Number: 48691
List Source: TestAmerica Pittsburgh
List Number: 1
List Creation: 07/07/12 11:58 AM

Creator: Watson, Debbie

ordatori tratooni bobbio		
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	
s 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	

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Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-48691-1

Login Number: 48691
List Source: TestAmerica Savannah
List Number: 1
List Creation: 07/10/12 12:02 PM

Creator: Howard, Brandon L

Answer	Comment
N/A	
True	
N/A	
True	
N/A	
True	
N/A	
True	
True	
N/A	
	N/A True True

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Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-48691-1

Login Number: 48691 List Source: TestAmerica Savannah
List Number: 2 List Creation: 07/11/12 12:14 PM

Creator: Howard, Brandon L

oreator. Howard, Brandon E		
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	

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Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-48691-1

List Source: TestAmerica Tallahassee
List Number: 1
List Creation: 07/07/12 11:53 AM

Creator: Delp, Eric

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	

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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 -----

Review your project results through

Total Access

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

 $\label{limit} \textbf{Client: AMEC Environment \& Infrastructure, Inc.}$

Toxicity Equivalent Quotient (Dioxin)

Minimum detectable concentration

Duplicate error ratio (normalized absolute difference)

Reporting Limit or Requested Limit (Radiochemistry only)

Minimum detectable activity

Decision level concentration

Relative error ratio

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Qualifiers

Metals

Qualifier	Qualifier Description
Ī	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.
1	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Glossary

TEQ

MDA

MDC

RER

DER

DLC

RL

<u> </u>	
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)

TestAmerica Tampa 11/8/2012

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.

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Client Sample ID: 1A3	Lab Sample ID: 660-50257-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D N	lethod	Prep Type
Copper	3.3		2.0	0.14	ug/L	1	2	8.00	Total
									Recoverable
Nitrogen, Kjeldahl	0.71		0.20	0.050	mg/L	1	3	51.2	Total/NA
Phosphorus	0.13	J3	0.010	0.0044	mg/L	1	3	65.1	Total/NA
Total Suspended Solids	2.0		1.0	1.0	mg/L	1	S	SM 2540D	Total/NA
Nitrogen, Total	0.71		0.70	0.15	mg/L	1	T	otal 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			2.0	0.14	ug/L	1	_	200.8	Total
Nitrogen, Kjeldahl	0.75		0.20	0.050	mg/L	1		351.2	Recoverable 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
Nitrogen, Kjeldahl	0.89	0.20	0.050	mg/L	1		351.2	Recoverable 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

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

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

Lab Sample ID: 660-50257-7 Client Sample ID: 16B

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D Method	Prep Type
Copper	0.28	Ī	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		_	200.8	Total
Nitrogen, Kjeldahl	1.2		0.20	0.050	mg/L	1		351.2	Recoverable 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 Me	thod	Prep Type
Copper	0.46	I	2.0	0.14	ug/L		200).8	Total
Nitrogen, Kjeldahl	1.2		0.20	0.050	mg/L	1	351	1.2	Recoverable Total/NA
Phosphorus	0.13		0.010	0.0044	mg/L	1	365	5.1	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	Tot	al Nitrogen	Total/NA

Client Sample ID: 20B Lab Sample ID: 660-50257-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D Me	ethod	Prep Type
Copper	0.91	I	2.0	0.14	ug/L	1	_ 20	0.8	Total
									Recoverable
Nitrogen, Kjeldahl	1.8		0.20	0.050	mg/L	1	35	1.2	Total/NA
Phosphorus	0.068		0.010	0.0044	mg/L	1	36	5.1	Total/NA
Total Suspended Solids	13		1.0	1.0	mg/L	1	SN	Л 2540D	Total/NA
Nitrogen, Total	1.8		0.70	0.15	mg/L	1	То	tal Nitrogen	Total/NA

Client Sample ID: 21B Lab Sample ID: 660-50257-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D M	ethod	Prep Type
Copper	1.9	I	2.0	0.14	ug/L		20	00.8	Total
									Recoverable
Nitrogen, Kjeldahl	0.67		0.20	0.050	mg/L	1	35	51.2	Total/NA
Phosphorus	0.022		0.010	0.0044	mg/L	1	36	65.1	Total/NA
Total Suspended Solids	6.4		1.0	1.0	mg/L	1	SI	M 2540D	Total/NA
Nitrogen, Total	0.67	1	0.70	0.15	mg/L	1	To	otal Nitrogen	Total/NA

Client Sample ID: 22A3 Lab Sample ID: 660-50257-12

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Client Sample ID: 22A3 (Continued)

Lab Sample ID: 660-50257-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D Met	hod	Prep Type
Copper	0.99	Ī	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	Tota	l Nitrogen	Total/NA

Lab Sample ID: 660-50257-13 Client Sample ID: 22B

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
Nitrogen, Kjeldahl	0.85		0.20	0.050	mg/L	1	351.2	Recoverable 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
Nitrogen, Kjeldahl	0.83		0.20	0.050	mg/L	1		351.2	Recoverable Total/NA
Nitrate Nitrite as N	0.26	1	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

Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
1.2	Ī	2.0	0.14	ug/L		_	200.8	Total
								Recoverable
0.63		0.20	0.050	mg/L	1		351.2	Total/NA
0.94		0.50	0.10	mg/L	1		353.2	Total/NA
0.34		0.010	0.0044	mg/L	1		365.1	Total/NA
1.6		1.0	1.0	mg/L	1		SM 2540D	Total/NA
1.6		0.70	0.15	mg/L	1		Total Nitrogen	Total/NA
	1.2 0.63 0.94 0.34 1.6	0.94 0.34 1.6	1.2 I 2.0 0.63 0.20 0.94 0.50 0.34 0.010 1.6 1.0	1.2 I 2.0 0.14 0.63 0.20 0.050 0.94 0.50 0.10 0.34 0.010 0.0044 1.6 1.0 1.0	1.2 I 2.0 0.14 ug/L 0.63 0.20 0.050 mg/L 0.94 0.50 0.10 mg/L 0.34 0.010 0.0044 mg/L 1.6 1.0 1.0 mg/L	1.2 I 2.0 0.14 ug/L 1 0.63 0.20 0.050 mg/L 1 0.94 0.50 0.10 mg/L 1 0.34 0.010 0.0044 mg/L 1 1.6 1.0 1.0 mg/L 1	1.2 I 2.0 0.14 ug/L 1 0.63 0.20 0.050 mg/L 1 0.94 0.50 0.10 mg/L 1 0.34 0.010 0.0044 mg/L 1 1.6 1.0 1.0 mg/L 1	1.2 I 2.0 0.14 ug/L 1 200.8 0.63 0.20 0.050 mg/L 1 351.2 0.94 0.50 0.10 mg/L 1 353.2 0.34 0.010 0.0044 mg/L 1 365.1 1.6 1.0 1.0 mg/L 1 SM 2540D

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Lab Sample ID: 660-50257-1

Matrix: Water

Date Collected: 09/25/12 09:30 Date Received: 09/26/12 08:50

Client Sample ID: 1A3

Method: 200.8 - Metals (ICP/MS) - Total Recove	rable							
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

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Client Sample ID: 1B

TestAmerica Job ID: 660-50257-1

Lab Sample ID: 660-50257-2

Matrix: Water

Date Collected: 09/25/12 09:45 Date Received: 09/26/12 08:50

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: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Lab Sample ID: 660-50257-3

Matrix: Water

Date Collected: 09/25/12 10:30 Date Received: 09/26/12 08:50

Client Sample ID: 2B

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

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Lab Sample ID: 660-50257-4

Matrix: Water

Date Collected: 09/25/12 11:00 Date Received: 09/26/12 08:50

Client Sample ID: 3B

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		

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Lab Sample ID: 660-50257-5

Matrix: Water

Date Collected: 09/25/12 11:15 Date Received: 09/26/12 08:50

Client Sample ID: 5B

Method: 200.8 - Metals (ICP/MS) - Total Recove	rable							
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

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Lab Sample ID: 660-50257-6

Matrix: Water

Date Collected: 09/25/12 11:30 Date Received: 09/26/12 08:50

Client Sample ID: 15B

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		

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Lab Sample ID: 660-50257-7

Matrix: Water

Date Collected: 09/25/12 11:45 Date Received: 09/26/12 08:50

Client Sample ID: 16B

Method: 200.8 - Metals (ICP/MS)	- Total Recove	rable							
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

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Client Sample ID: 19B

TestAmerica Job ID: 660-50257-1

Lab Sample ID: 660-50257-8

. Matrix: Water

Date Collected: 09/25/12 12:00
Date Received: 09/26/12 08:50

Method: 200.8 - Metals (ICP/MS Analyte	•	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.39		2.0		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

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Client Sample ID: 6B

TestAmerica Job ID: 660-50257-1

Lab Sample ID: 660-50257-9

Matrix: Water

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Date Collected: 09/25/12 12:45 Date Received: 09/26/12 08:50

Method: 200.8 - Metals (ICP/MS) - Total Recoverable Result Qualifier PQL Analyte MDL Unit D Analyzed Dil Fac Prepared Copper 0.46 I 2.0 0.14 ug/L 09/27/12 17:04 10/03/12 03:47

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: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Lab Sample ID: 660-50257-10

Matrix: Water

Date Collected: 09/25/12 13:00 Date Received: 09/26/12 08:50

Client Sample ID: 20B

Method: 200.8 - Metals (ICP/MS)	- Total Recove	rable							
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

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Lab Sample ID: 660-50257-11

Matrix: Water

Date Collected: 09/25/12 13:00 Date Received: 09/26/12 08:50

Client Sample ID: 21B

Method: 200.8 - Metals (ICP/MS	6) - Total Recove	rable							
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	1	0.70	0.15	mg/L			10/05/12 15:05	1

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Lab Sample ID: 660-50257-12

Matrix: Water

Date Collected: 09/25/12 14:00 Date Received: 09/26/12 08:50

Client Sample ID: 22A3

Method: 200.8 - Metals (ICP/MS) - Total Recoverable											
Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
0.99	I	2.0	0.14	ug/L		09/27/12 17:04	10/03/12 04:00	1			
Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
0.76		0.20	0.050	mg/L		10/01/12 17:30	10/02/12 16:00	1			
0.10	U	0.50	0.10	mg/L			10/04/12 17:04	1			
0.12		0.010	0.0044	mg/L		10/01/12 12:35	10/01/12 18:22	1			
3.6		1.0	1.0	mg/L			10/01/12 12:47	1			
0.76		0.70	0.15	mg/L			10/05/12 15:05	1			
	Result 0.99 Result 0.76 0.10 0.12 3.6	Result Qualifier	Result 0.99 Qualifier PQL 0.99 I 2.0 Result 0.76 Qualifier PQL 0.76 0.20 0.10 U 0.50 0.12 0.010 3.6 1.0	Result 0.99 I Qualifier PQL 2.0 MDL 0.14 Result 0.76 0.76 0.20 0.050 0.10 U 0.50 0.10 0.12 0.010 0.0044 0.010 0.0044 3.6 1.0 1.0 1.0	Result 0.99 Qualifier PQL 2.0 MDL ug/L Unit ug/L Result 0.76 0.20 0.050 mg/L 0.10 mg/L 0.10 0 0.50 0.10 mg/L 0.12 0.010 0.0044 mg/L 3.6 1.0 1.0 mg/L	Result 0.99 Qualifier PQL 2.0 MDL ug/L Unit ug/L D Result 0.76 Qualifier PQL 0.050 mg/L 0.050 mg/L 0.050 mg/L 0.010 mg/L 0.010 mg/L 0.12 0.010 0.0044 mg/L 0.0044 mg/L 3.6 1.0 1.0 mg/L	Result 0.99 I Qualifier PQL 2.0 MDL ug/L Unit ug/L D 09/27/12 17:04 Result 0.76 0.76 0.20 0.050 0.10 U 0.10 U 0.50 0.10 U 0.50 0.10 U 0.50 0.10 mg/L 0.12 0.010 0.0044 mg/L 0.12 0.010 0.0044 mg/L 0.10 mg/L D 0/27/12 17:04 0.004/2 mg/L 0.001/12 17:30 0.0044 mg/L 0.004/2 mg/L 0.001/2 12:35 3.6 0.00 0.0044 0.0044 mg/L 0.004/2 mg/L	Result 0.99 I Qualifier PQL 2.0 MDL ug/L Unit ug/L D Prepared 0.9/27/12 17:04 Analyzed 10/03/12 04:00 Result 0.76 0.76 0.20 0.050 mg/L 0.10 U 0.50 0.10 U 0.050 0.10 U 0.50 0.10 mg/L 0.12 0.010 0.0044 mg/L 0.12 0.010 0.0044 mg/L 0.12 0.010 0.0044 mg/L 0.010 0.0044 mg/L 0.010 0.0044 mg/L 0.010 0.0041 0.004/12 17:04 0.004/12 1			

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Lab Sample ID: 660-50257-13

. Matrix: Water

Date Collected: 09/25/12 14:30 Date Received: 09/26/12 08:50

Client Sample ID: 22B

Total Recove	rable							
Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
0.64	I	2.0	0.14	ug/L		09/27/12 17:04	10/03/12 04:05	1
Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
0.85		0.20	0.050	mg/L		10/01/12 17:30	10/02/12 16:01	1
0.10	U	0.50	0.10	mg/L			10/04/12 17:06	1
0.10		0.010	0.0044	mg/L		10/01/12 12:35	10/01/12 18:24	1
8.8		1.0	1.0	mg/L			10/01/12 12:47	1
0.85		0.70	0.15	mg/L			10/05/12 15:05	1
	Result 0.64 Result 0.85 0.10 0.10 8.8	0.10 U 0.10 8.8	Result 0.64 I Qualifier 2.0 Result 0.85 0.20 0.10 U 0.50 0.10 0.10 0.010 8.8 1.0	Result 0.64 I Qualifier 2.0 PQL 0.14 MDL 2.0 0.14 Result 0.85 0.85 0.20 0.050 0.10 U 0.50 0.10 0.10 0.004 0.010 0.010 0.0044 0.010 0.010 0.0044	Result 0.64 I PQL 2.0 MDL Unit 0.14 Unit 0.14 Ug/L Result 0.85 0.20 0.85 0.10 U 0.50 0.10 Mg/L 0.10 U 0.50 0.10 Mg/L 0.10 0.0044 Mg/L 0.10 0.010 0.0044 Mg/L 0.10 Mg/L 0.	Result 0.64 I PQL 2.0 MDL unit ug/L D Result 0.85 0.85 0.20 0.10 U PQL 0.50 0.050 mg/L 0.10 mg/L D 0.10 U 0.50 0.10 mg/L 0.10 0.0044 mg/L 0.0044 mg/L 8.8 1.0 1.0 mg/L	Result 0.64 I Qualifier PQL 2.0 MDL 2.0 Unit ug/L D 09/27/12 17:04 Result 0.85 0.85 0.20 0.050 0.10 U 0.50 0.10 U 0.50 0.10 U 0.50 0.10 mg/L 0.10 0.010 0.0044 mg/L 0.10 0.010 0.0044 mg/L 0.10 mg/L 0.10 0.010 0.0044 mg/L 0.10 mg/L 0.010 0.0044 mg/L 0.0044 mg/	Result 0.64 I PQL 2.0 MDL 2.0 Unit ug/L D 2.0 Prepared 2.0 Analyzed 10/03/12 04:05 Result 0.85 0.85 0.20 0.85 0.10 0.10 U 0.10 U 0.50 0.10 U 0.50 0.10 U 0.50 0.10 mg/L 0.10 U 0.010 0.0044 mg/L 0.004/12 17:35 10/01/12 18:24 D Prepared 2.0 Analyzed 2.0 0.85 0.20 0.050 mg/L 0.10 mg/L 0.10 0.10 U 0.50 0.10 mg/L 0.10 mg/L 0.10 0.0044 mg/L 0.10/01/12 12:35 10/01/12 18:24 10/01/12 12:35 10/01/12 12:47

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Lab Sample ID: 660-50257-14

Matrix: Water

Client Sample ID: PW Pump Date Collected: 09/25/12 14:45

Date Received: 09/26/12 08:50

Method: 200.8 - Metals (ICP/MS Analyte	•	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	1	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

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

TestAmerica Job ID: 660-50257-1

Lab Sample ID: 660-50257-15

Matrix: Water

Client Sample ID: Reuse 1
Date Collected: 09/25/12 15:00

Date Received: 09/26/12 08:50

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

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

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

Prep Batch: 49986

Prep Type: Total/NA

Prep Batch: 129677

Result Qualifier PQL MDL Unit D Analyzed Dil Fac Analyte Prepared 2.0 0.14 ug/L 09/27/12 17:04 10/03/12 01:47 Copper 0.14 U

мв мв

Lab Sample ID: LCS 180-49986/2-A Client Sample ID: Lab Control Sample **Matrix: Water Prep Type: Total Recoverable**

Analysis Batch: 50626

Prep Batch: 49986 LCS LCS Spike Added Analyte Result Qualifier Unit %Rec Limits Copper 250 223 ug/L 89 85 - 115

Lab Sample ID: 180-14724-E-3-B MS Client Sample ID: Matrix Spike **Matrix: Water Prep Type: Total Recoverable**

Analysis Batch: 50626

Spike MS MS Sample Sample %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 250 70 - 130 Copper 211 ug/L

Lab Sample ID: 180-14724-E-3-C MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Total Recoverable**

Matrix: Water

Analysis Batch: 50626

Prep Batch: 49986 Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Limit 1.1 Ī 250 85 70 - 130 Copper 213 ug/L 20

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 660-129677/10-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 129726

MR MR

Result Qualifier PQL MDL Unit D Prepared Dil Fac Analyte Analyzed 0.050 0.20 09/27/12 16:30 Nitrogen, Kjeldahl Ū 0.050 mg/L 09/28/12 13:04

Lab Sample ID: LCS 660-129677/11-A **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 129726 **Prep Batch: 129677** LCS LCS Spike %Rec.

Analyte Added Result Qualifier Unit D %Rec Limits Nitrogen, Kjeldahl 3.00 3.04 mg/L 101 90 - 110

Lab Sample ID: 660-50205-C-1-B MS Client Sample ID: Matrix Spike

Matrix: Water Prep Type: Total/NA Analysis Batch: 129726 **Prep Batch: 129677** Sample Sample Spike MS MS %Rec.

Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Nitrogen, Kjeldahl 24 J3 3.00 25.7 J3 mg/L 47 90 - 110

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: 660-50205-C-1-C I	MSD									Clier	nt Sa	ample ID	: Matrix S		•
Matrix: Water													•	ype: To	
Analysis Batch: 129726	Sample	Com	nla	Spike		Men	MSD						%Rec.	Batch: '	1296// RPD
Analyte	Result			Added		Result			Unit		D	%Rec	MRec.	RPD	Limit
Nitrogen, Kjeldahl			er	3.00		26.4		iller			_		90 - 110	3	30
Nitrogen, Kjeldani	24	JS		3.00		20.4	JJ		mg/L			69	90 - 110	3	30
Lab Sample ID: 660-50257-2 MS													Client	Sample	ID: 1B
Matrix: Water													Prep 1	Гуре: То	tal/NA
Analysis Batch: 129726													Prep	Batch: 1	129677
	Sample	Sam	ple	Spike		MS	MS						%Rec.		
Analyte	Result	Qual	ifier	Added		Result	Qual	lifier	Unit		D	%Rec	Limits		
Nitrogen, Kjeldahl	0.75			3.00		3.80			mg/L		_	102	90 - 110		
Lab Sample ID: 660-50257-2 MSD													Client	Sample	ID: 1B
Matrix: Water													Prep 1	Type: To	tal/NA
Analysis Batch: 129726													-	Batch: 1	
	Sample	Sam	ple	Spike		MSD	MSD)					%Rec.		RPD
Analyte	Result	Qual	ifier	Added		Result	Qual	lifier	Unit		D	%Rec	Limits	RPD	Limit
Nitrogen, Kjeldahl	0.75			3.00		3.66	-		mg/L		_	97	90 - 110	4	30
Lab Sample ID: MB 660-129804/10)- A											Client S	ample ID:	Method	l Blank
Matrix: Water													Prep 1	Гуре: То	tal/NA
Analysis Batch: 129846													Prep	Batch: 1	129804
-		MB	MB										•		
Analyte	R	esult	Qualifier		PQL		MDL	Unit		D	P	repared	Analya	zed	Dil Fac
Nitrogen, Kjeldahl		0.050	U		0.20		0.050	mg/L			10/0	1/12 17:30	10/02/12	15:28	1
Lab Sample ID: LCS 660-129804/1	1-A									CI	ient	Sample	ID: Lab C	ontrol S	Sample
Matrix: Water														Гуре: То	
Analysis Batch: 129846														Batch:	
,,															

	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Nitrogen, Kjeldahl	3.00	2.73		mg/L		91	90 - 110		_
Lab Sample ID: 660-50315-D-2-B MS						Client	Sample ID: N	//atrix Spik	е
Matrix: Water							Prep Typ	oe: Total/N	Α

Analysis Batch: 129846									Prep	Batch: 129	804
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Nitrogen, Kjeldahl	6.9	J3	3.00	9.54	J3	mg/L		89	90 - 110		

Lab Sample ID: 660-50315-D-2-	-C MSD						Client Sa	ample IE	D: Matrix S _l	pike Dup	olicate
Matrix: Water									Prep 1	Type: To	tal/NA
Analysis Batch: 129846									Prep	Batch: 1	29804
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Nitrogen, Kjeldahl	6.9	J3	3.00	9.42	J3	mg/L		85	90 - 110	1	30

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

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 660-129967/3 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 129967

мв мв Result Qualifier PQL MDL Unit D Analyzed Dil Fac Analyte Prepared 0.50 10/04/12 16:07 Nitrate Nitrite as N 0.10 U 0.10 mg/L

Lab Sample ID: LCS 660-129967/4 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 129967

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Nitrate Nitrite as N 1.00 0.990 mg/L 99 90 - 110

Lab Sample ID: 660-50257-2 MS Client Sample ID: 1B Matrix: Water Prep Type: Total/NA

Analysis Batch: 129967

Spike MS MS %Rec. Sample Sample Result Qualifier Added Result Qualifier Unit D %Rec Limits Nitrate Nitrite as N 0.10 U 1.00 1.01 101 mg/L

Lab Sample ID: 660-50257-2 MSD Client Sample ID: 1B **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 129967

%Rec. Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier Unit %Rec Limits Limit Nitrate Nitrite as N 0.10 U 1.00 mg/L 1.02 102 90 110

Lab Sample ID: MB 660-129968/3 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 129968

MR MR

Result Qualifier PQL MDL Unit Analyte D Dil Fac Prepared Analyzed 0.50 Nitrate Nitrite as N 0.10 Ū 10/04/12 17:00 0.10 mg/L

Lab Sample ID: LCS 660-129968/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 129968

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits 1.00 Nitrate Nitrite as N 1.03 mg/L 103 90 - 110

Lab Sample ID: 660-50257-10 MS Client Sample ID: 20B Prep Type: Total/NA

Matrix: Water

Analysis Batch: 129968

MS MS Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %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 Client Sample ID: 20B Prep Type: Total/NA

Matrix: Water

Analysis Batch: 129968

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 0.10 U Nitrate Nitrite as N 1.00 1.02 mg/L 102 90 - 110 0

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 640-96249/3-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 96275

мв мв

Sample Sample

0.13 J3

Sample Sample

Sample Sample

0.13 J3

Result Qualifier

0.13 J3

Result Qualifier

Result Qualifier

Result Qualifier PQL MDL Unit Analyte D Prepared Dil Fac Analyzed 0.010 0.0044 mg/L 10/01/12 12:35 10/01/12 17:45 Phosphorus 0.0044 U

> Spike Added

0.100

Spike

Added

0.100

Spike

Added

0.100

Spike

Added

0.100

LCS LCS

LCSD LCSD

MS MS

MSD MSD

DU DU

Result Qualifier

MDL Unit

1.0 mg/L

0.230

0.120

Result Qualifier

0.215 J3

Result Qualifier

Result Qualifier

0.0940

0.0915

Result Qualifier

Unit

mg/L

Unit

mg/L

Unit

mg/L

Unit

mg/L

Unit

mg/L

D

Prepared

Lab Sample ID: LCS 640-96249/5-A

Matrix: Water

Phosphorus

Analysis Batch: 96275

Analyte

Lab Sample ID: LCSD 640-96249/6-A

Matrix: Water

Analysis Batch: 96275

Analyte

Phosphorus

Lab Sample ID: 660-50257-1 MS **Matrix: Water**

Analysis Batch: 96275

Analyte Phosphorus

Lab Sample ID: 660-50257-1 MSD

Matrix: Water

Analysis Batch: 96275

Analyte Phosphorus

Lab Sample ID: 660-50257-1 DU

Matrix: Water

Analyte

Analysis Batch: 96275

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

Lab Sample ID: MB 660-129789/1

Matrix: Water

Analysis Batch: 129789

MB MB

Analyte Result Qualifier

Total Suspended Solids 1.0 U Prep Type: Total/NA

Prep Batch: 96249

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 96249

Limits 90 - 110

Client Sample ID: Lab Control Sample Dup

%Rec

%Rec

%Rec

%Rec

102

92

D

D

94

Prep Type: Total/NA

Prep Batch: 96249

%Rec. RPD

Limits **RPD** Limit

30

Client Sample ID: 1A3

Prep Type: Total/NA

Prep Batch: 96249

%Rec.

Limits

87 90 110

> Client Sample ID: 1A3 Prep Type: Total/NA

Prep Batch: 96249

RPD

%Rec. Limit RPD

Limits 90 - 110 30

Client Sample ID: 1A3 Prep Type: Total/NA

Prep Batch: 96249

RPD

Limit

30

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

Analyzed Dil Fac 10/01/12 12:47

PQL

1.0

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 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 129789

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit D %Rec Total Suspended Solids 100 102 102 80 - 120 mg/L

Lab Sample ID: 660-50257-14 DU Client Sample ID: PW Pump

Matrix: Water Prep Type: Total/NA

Analysis Batch: 129789

Sample Sample DU DU RPD Result Qualifier Result Qualifier **RPD** Limit Analyte Unit Total Suspended Solids 4.8 4.00 mg/L 18 20

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

Metals

Prep Batch: 49986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
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	

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Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

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	
LCSD 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
LCSD 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	

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

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	

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

General Chemistry (Continued)

Prep Batch: 129804 (Continued)

Lab Sample ID	Client Sample	ID Prep	Type Matrix	Method	Prep Batch
LCS 660-12980	4/11-A Lab Control Sa	imple Total/I	NA Water	351.2	
MB 660-129804	/10-A Method Blank	Total/I	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	

2

3

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4.6

1 1

12

1 1

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	

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Lab Sample ID: 660-50257-1

Matrix: Water

Matrix: Water

Date Collected: 09/25/12 09:30 Date Received: 09/26/12 08:50

Client Sample ID: 1A3

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	ТО	TAL TAM
Total/NA	Analysis	353.2		1	129967	10/04/12 16:31	ТО	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 Date Received: 09/26/12 08:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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

Lab Sample ID: 660-50257-3 Client Sample ID: 2B Date Collected: 09/25/12 10:30 Matrix: Water

Date Received: 09/26/12 08:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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

Client Sample ID: 3B

Date Collected: 09/25/12 11:00

Date Received: 09/26/12 08:50

Lab Sample ID: 660-50257-4

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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	ТО	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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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 TAN
Total/NA	Analysis	351.2		1	129726	09/28/12 13:31	TO	TAL TAN
Total/NA	Analysis	SM 2540D		1	129789	10/01/12 12:47	TO	TAL TAN
Total/NA	Analysis	353.2		1	129967	10/04/12 16:36	TO	TAL TAN
Total/NA	Analysis	Total Nitrogen		1	129986	10/05/12 15:05	RWF	TAL TAN

Client Sample ID: 15B Lab Sample ID: 660-50257-6

Date Collected: 09/25/12 11:30 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	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

Matrix: Water

Project/Site: City of Naples Stormwater

Client Sample ID: 16B

Date Collected: 09/25/12 11:45 Date Received: 09/26/12 08:50

Lab Sample ID: 660-50257-7

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	ТО	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	ТО	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

Date Received: 09/26/12 08:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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	ТО	TAL TAN
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 TAN
Total/NA	Analysis	353.2		1	129967	10/04/12 16:40	ТО	TAL TAN
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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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 Sample ID: 660-50257-10

Matrix: Water

Date Collected: 09/25/12 13:00 Date Received: 09/26/12 08:50

Client Sample ID: 20B

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	то	TAL TAM
Total/NA	Analysis	351.2		1	129846	10/02/12 15:57	ТО	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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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	ТО	TAL TAN
Total/NA	Prep	351.2			129804	10/01/12 17:30	TO	TAL TAN
Total/NA	Analysis	351.2		1	129846	10/02/12 15:59	ТО	TAL TAN
Total/NA	Analysis	353.2		1	129968	10/04/12 17:03	ТО	TAL TAI
Total/NA	Analysis	Total Nitrogen		1	129986	10/05/12 15:05	RWF	TAL TAI

Client Sample ID: 22A3 Lab Sample ID: 660-50257-12

Date Collected: 09/25/12 14:00

Date Received: 09/26/12 08:50

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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

Matrix: Water

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

Lab Sample ID: 660-50257-13

Matrix: Water

Date Collected: 09/25/12 14:30 Date Received: 09/26/12 08:50

Client Sample ID: 22B

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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	ТО	TAL TAM
Total/NA	Prep	351.2			129804	10/01/12 17:30	TO	TAL TAN
Total/NA	Analysis	351.2		1	129846	10/02/12 16:02	ТО	TAL TAN
Total/NA	Analysis	353.2		1	129968	10/04/12 17:07	ТО	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	129986	10/05/12 15:05	RWF	TAL TAN

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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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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TestAmerica Job ID: 660-50257-1

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

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

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Method Summary

Client: AMEC Environment & Infrastructure, Inc.

Project/Site: City of Naples Stormwater

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

TestAmerica Job ID: 660-50257-1

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

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Lab Project #: F1209343

Page 1 of

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 813-885-7427

Phone:

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

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11/8/2012

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Laboratory Test Report

Client: Test America Tampa

Page: Page 1 of 5

Client Project: MACTEC

Enterococcus, MPN

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Lab Project: F1209343

Report Date: 10/03/12

F1209343-01	Sample I 1A3	<u>Testariatha</u>			Matr Surface		mple Fype GRAB	Recevee∎Dni 9/25/12 13:		iple Date/ 9/25/12 9::	and an arrange of the second o
<u>Parameter</u>	,	Result	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	<u>Method</u>	Batch #	Analysis Date/Time	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN		152		4	4	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF		673	В	9	9	CFU/100mi	SM9222D	FB120928011	9/25/12 14:40	LV	E85457
F1209343-02	Sample I 1B	Desception			Mate Surface	Mary Control of the C	mple Evipe GRAB	Received Date 9/25/12 13;		iple Date/ 9/25/12 9:	The state of the s
<u>Parameter</u>		Result	<u>Qual</u>	MDL	PQL	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>
Enterococcus, MPN		100		100	100	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF		231	В	3	3	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457
HADOO 10 00	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1))eser plior			Matr		Commence of the Commence of th	Received Dat		iple Date/	
F1209343-03	2B				Surface '	water	GRAB	9/25/12 13:		9/25/12 10:	30
<u>Parameter</u>		Result	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN		961		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF		1840	В	9	9	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457
E1200242.04	Sample I 3B	Description	Color Manager		Matr Surface	Control of the Contro	mple Evpe GRAB	Received Date 9/25/12 13:		iple Date/ 9/25/12 11:	And the second second second
F1209343-04	313				Surrace	Water	UKAB	9123112 13:		9123112 11.	00
<u>Parameter</u>		Result	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN		47		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF		259	В	2	2	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457
<u>Lab ID</u> F1209343-05	Sample L 5B	Description			Matr Surface		mple Evpe GRAB	Received Dat 9/25/12 13:		iple Date/ 9/25/12 11:	
Parameter	J.B	Result	Qual	MDL	POL	<u>Units</u>	Method	Batch #	Analysis	Analyst	
			Vuu				<u> </u>		Date/Time		
Enterococcus, MPN		7		1	10	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
Eab ID F1209343-06	Sample 1 15B	Description			Mate Surface		m ple Fype GRAB	Received Data 9/25/12 13:		ipie≣Date/ 9/25/12 11:	
<u>Parameter</u>		Result	Qual	MDL	PQL	<u>Units</u>	Method	Batch #	Analysis Date/Time	Analyst	<u>Lab ID</u>

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

MPN/100ml

Enterolert

FB120928004

9/25/12 15:00

E85457

LV

Laboratory Test Report

Client:

Test America Tampa

Client Project: MACTEC

Page: Page 2 of 5

Lab Project: F1209343

Report Date: 10/03/12

	Sample	Description	i d	E 21. 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4	Man	ix Sa	mple Type	Received Dat	e/Time San	iple Date	Time
F1209343-06	15B			and a subsect of the	Surface	The transfer want representation of the species of	GRAB	9/25/12 13	Management of the Santa State of	9/25/12 11:	commonwealth and the plant
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Fecal Coliform, MF		230		10	10	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E 85457
	And the second of the second o	Description	<u>L</u>			of the Product of the Control of the	minima to the control of the control	Received Dat 9/25/12 13		nple Date 9/25/12 11:	
F1209343-07	16B				Surface	water	GRAB	9/25/12 15		9/23/12 11;	4 5
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>
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
Eab 1D F1209343-08	Sample 19B	Description	r e		Mate Surface		mple llype GRAB	Received Dat 9/25/12 13		tple=Date/ 9/25/12 12:	
F1209343-08	190				Burrace	TY dici	GICAD	9/25/12 15		<i>J</i> , <i>E</i> ,	00
<u>Parameter</u>		Result	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> Date/Time	<u>Analyst</u>	<u>Lab ID</u>
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
								#		The same of the sa	
	White the second property and the	Description			Matr	Martin Mr. 12, 200 and the marting of the little of the		Received Dat			TO THE PERSON NAMED IN COLUMN TWO
F1209343-09	=Sample∈ 6B	Description			Matr Surface	Martin Mr. 12, 200 and the marting of the little of the	mple Lype GRAB	Received Dat 9/25/12 15		iple Date/ 9/25/12 12:	TO THE PERSON NAMED IN COLUMN TWO
THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	White the second property and the	<u>Result</u>	<u>Qual</u>	MDL		Martin Mr. 12, 200 and the marting of the little of the					45
F1209343-09	White the second property and the			MDL	Surface	Water	GRAB	9/25/12 15	50 <u>Analysis</u>	9/25/12 12 .	45
F1209343-09 Parameter	White the second property and the	Result			Surface PQL	Water <u>Units</u>	GRAB Method	9/25/12 15 Batch #	50 Analysis Date/Time	9/25/12 12: <u>Analyst</u>	45 <u>Lab ID</u>
F1209343-09 Parameter Enterococcus, MPN Fecal Coliform, MF	6B Sample	Result	Qual	1	Surface PQL 1 100 Matr	Water <u>Units</u> MPN/100ml CFU/100ml	Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Dat	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11	9/25/12 12; Analyst LV LV ple Date.	Lab ID E85457 E85457
F1209343-09 Parameter Enterococcus, MPN Fecal Coliform, MF	6B	Result 101 5200	Qual	1	Surface PQL 1 100	Water <u>Units</u> MPN/100ml CFU/100ml	Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 e/Fime San	9/25/12 12; Analyst LV LV	Lab ID E85457 E85457
F1209343-09 Parameter Enterococcus, MPN Fecal Coliform, MF	6B Sample	Result 101 5200	Qual	1	Surface PQL 1 100 Matr	Water <u>Units</u> MPN/100ml CFU/100ml	Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Dat	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11	9/25/12 12; Analyst LV LV ple Date.	Lab ID E85457 E85457 Time 00
F1209343-09 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1209343-10	6B Sample	Result 101 5200 Description	<u>Qual</u>	1 100	PQL 1 100 Matr Surface	Water Units MPN/100ml CFU/100ml IX Water	Method Enterolert SM9222D mple=Type GRAB	9/25/12 15: Batch # FB120928005 FB120928012 Received Date	Analysis <u>Analysis</u> <u>Date/Time</u> 9/25/12 16:44 9/25/12 16:11 e/Fime San 50 <u>Analysis</u>	9/25/12 12: Analyst LV LV IDIC Date: 9/25/12 13:	Lab ID E85457 E85457 Time 00
F1209343-09 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1209343-10 Parameter	6B Sample	Result 101 5200 Description Result	<u>Qual</u>	1 100 <u>MDL</u>	Surface POL 1 100 Matr Surface POL	Water Units MPN/100ml CFU/100ml X Water Units	Method Enterolert SM9222D mple=Evpe=GRAB Method	9/25/12 15: Batch # FB120928005 FB120928012 Received Date 9/25/12 15: Batch #	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 e/Fime San 50 Analysis Date/Time	Analyst LV LV Die Date 9/25/12 13:	Lab ID E85457 E85457 Chime 00 Lab ID
F1209343-09 Parameter Enterococcus, MPN Fecal Coliform, MF Labeld F1209343-10 Parameter Enterococcus, MPN Fecal Coliform, MF	Sample 20B	Result 101 5200 Description Result 2420	<u>Qual</u> Qual	1 100 <u>MDL</u>	POL 1 100 Matr Surface POL 1 100 Modernia of the state of the sta	Water Units MPN/100ml CFU/100ml X Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D mple Type GRAB Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Dat 9/25/12 15: Batch # FB120928005 FB120928012 Received Dat	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 e/Fime San 50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:44	Analyst LV LV Iple Date Analyst LV LV Analyst LV LV	Lab ID E85457 E85457 Lab ID E85457 Lab ID E85457 E85457
F1209343-09 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1209343-10 Parameter Enterococcus, MPN Fecal Coliform, MF	Sample 20B	Result 5200 Description Result 2420 4000	<u>Qual</u> Qual	1 100 <u>MDL</u>	PQL 1 100 Matr Surface PQL 1 100	Water Units MPN/100ml CFU/100ml X Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D Method GRAB Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Dat 9/25/12 15: Batch # FB120928005 FB120928005	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 e/Fime San 50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:44 9/25/12 16:11 e/Fime San 50	9/25/12 12; Analyst LV LV nple Date 9/25/12 13; Analyst LV LV	Lab ID E85457 E85457 Lab ID E85457 Lab ID E85457 E85457
F1209343-09 Parameter Enterococcus, MPN Fecal Coliform, MF Labeld F1209343-10 Parameter Enterococcus, MPN Fecal Coliform, MF	Sample 20B	Result 5200 Description Result 2420 4000	<u>Qual</u> Qual	1 100 <u>MDL</u>	POL 1 100 Matr Surface POL 1 100 Modernia of the state of the sta	Water Units MPN/100ml CFU/100ml X Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D mple Type GRAB Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Dat 9/25/12 15: Batch # FB120928005 FB120928012 Received Dat	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 e/Fime San 50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:44	Analyst LV LV Iple Date Analyst LV LV Analyst LV LV	Lab ID E85457 E85457 Lab ID Lab ID E85457 E85457 E85457 Time 30
F1209343-09 Parameter Enterococcus, MPN Fecal Coliform, MF Lab D F1209343-10 Parameter Enterococcus, MPN Fecal Coliform, MF Lab D F1209343-11	Sample 20B	Result 5200 Description Result 2420 4000 Description	Qual Qual	1 100 MDL 1 100	POL 1 100 Matr Surface POL 1 100 Matr Surface	Water Units MPN/100ml CFU/100ml X Sa Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D Mple Evpe GRAB Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Date	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 e/Fime San 50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:44 9/25/12 16:11 e/Fime San 50 Analysis	Analyst LV LV pple Date 9/25/12 13:	Lab ID E85457 E85457 Lab ID Lab ID E85457 E85457 E85457 Time 30

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

Eab ID Sample Description Matrix Sample Lype Received Date Lime Sample Date Lime

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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 F1209343-12	Sample D 22A3	<u>ieseriptio</u> i			Matr Surface	- I The state of t	mple Type GRAB	Received Date 9/25/12 15:		iple=Date/ 9/25/12 14:	
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>
Enterococcus, MPN		162		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF		2450	В	9	9	CFU/100m1	SM9222D	FB120928012	9/25/12 16:11	LV	E85457
leabili D	Sample D	escription			Matr	ik Sn	mple=Type=	Received Date			
F1209343-13	22B				Surface	Water	GRAB	9/25/12 15:	50	9/25/12 14:	30
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>
Enterococcus, MPN		378		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF		2340	В	9	9	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457
Embelo Establish		escription			Matr	The state of the s	mple Type	Received Dat	The second secon		
F1209343-14	PW PUMP				Surface	Water	GRAB	9/25/12 15:	50	9/25/12 14:	45
Parameter		Result	<u>Qual</u>	MDL	POL	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>
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
		lesemption	L		Matr	iX oS n	mole#Kvpre	Ekecelved Dan		ple Date	
F1209343-15	Sample B REUSE 1	Description	English on the second of the s		Matr Surface	A CONTROL OF THE PARTY OF THE P		Received Data 9/25/12 15:		iple Date/ 9/25/12 15:	
the particular of the second s		escription <u>Result</u>	<u>Qual</u>	MDL		A CONTROL OF THE PARTY OF THE P	mple Type				00
F1209343-15			THE STATE OF THE S	<u>MDL</u> 1	Surface	Water	mple Evpe GRAB	9/25/12 15:	50 Analysis	9/25/12 15:	00
F1209343-15 Parameter		Result	<u>Qual</u>		Surface PQL	Water <u>Units</u>	mple Type GRAB Method	9/25/12 15: Batch #	50 Analysis Date/Time	9/25/12 15: Analyst	00 <u>Lab ID</u>
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF	REUSE 1	Result 1 2	Qual U U	1	Surface PQL 1 2 Mater	Water <u>Units</u> MPN/100ml CFU/100ml	mple Type GRAB Method Enterolert SM9222D mple Type	9/25/12 15: Batch # FB120928005 FB120928012 Received Date	50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 e/Eime San	9/25/12 15: Analyst LV LV uple Date/	Lab ID E85457 E85457 Time
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF	REUSE 1	Result 1 2	Qual U U	1	Surface PQL 1 2	Water <u>Units</u> MPN/100ml CFU/100ml	mple Type GRAB Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012	50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 e/Eime San	9/25/12 15: <u>Analyst</u> LV LV	Lab ID E85457 E85457 Time
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF	REUSE 1	Result 1 2	Qual U U	1	Surface PQL 1 2 Mater	Water <u>Units</u> MPN/100ml CFU/100ml	mple Type GRAB Method Enterolert SM9222D mple Type	9/25/12 15: Batch # FB120928005 FB120928012 Received Date	50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 e/Eime San	9/25/12 15: Analyst LV LV uple Date/	E85457 E85457 E85057
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1209343-16	REUSE 1	Result 1 2 Description	Qual U U	2	PQL 1 2 Mati Surface	Water <u>Units</u> MPN/100ml CFU/100ml ix Sal	mple Type GRAB Method Enterolert SM9222D mple Type GRAB	9/25/12 15: Batch # FB120928005 FB120928012 Received Date 9/26/12 11:	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 6/Lime San 15 Analysis	9/25/12 15: Analyst LV LV iple Date/ 9/26/12 7:	E85457 E85457 E85057
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF Lab D F1209343-16 Parameter	REUSE 1	Result 1 2 Pescription Result	Qual U U	1 2 <u>MDL</u>	POL 1 2 Matr Surface	Water Units MPN/100ml CFU/100ml IX Sal Water Units	mple Type GRAB Method Enterolert SM9222D mple Type GRAB Method	9/25/12 15: Batch # FB120928005 FB120928012 Received Date 9/26/12 11: Batch #	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 6/4-me San 15 Analysis Date/Time	9/25/12 15: Analyst LV LV 1ple Date 7: Analyst	E85457 E85457 EMBERGE 30 Lab ID
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1209343-16 Parameter Enterococcus, MPN	REUSE 1	Result 2 Result 27 15	Oual U U Oual	1 2 <u>MDL</u> 1	POL 1 2 Matr Surface POL 1	Water Units MPN/100ml CFU/100ml X Sa Water Units MPN/100ml CFU/100ml	mple Type GRAB Method Enterolert SM9222D mple Type GRAB Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Date 9/26/12 11: Batch # FB121003010	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 e/Time San 15 Analysis Date/Time 9/26/12 13:00 9/26/12 12:10 e/Time San	9/25/12 15: Analyst LV LV 1ple Date 9/26/12 7: Analyst LV LV	E85457 E85457 Lab ID E85457 E85457 E85457 E85457
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1209343-16 Parameter Enterococcus, MPN Fecal Coliform, MF	REUSE 1 Sample 1 7B	Result 2 Result 27 15	Oual U U Oual	1 2 <u>MDL</u> 1	Surface PQL 1 2 Mati Surface PQL 1 2 Mati Surface	Water Units MPN/100ml CFU/100ml X Sa Water Units MPN/100ml CFU/100ml	mple Type GRAB Method Enterolert SM9222D mple Type GRAB Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Date 9/26/12 11: Batch # FB121003010 FB121003018 Received Date 9/26/12	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 e/Time San 15 Analysis Date/Time 9/26/12 13:00 9/26/12 12:10 e/Time San	9/25/12 15: Analyst LV LV 1ple Date/ 9/26/12 7: Analyst LV LV	E85457 E85457 Lab ID E85457 E85457 E85457 E85457 E85457
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF Lab LD F1209343-16 Parameter Enterococcus, MPN Fecal Coliform, MF Lab LD F1209343-17	REUSE 1 Sample 1 7B	Result 2 Result 27 15	Qual U U Qual	1 2 MDL 1 2	POL 1 2 Matr Surface POL 1 2 Matr Surface	Water Units MPN/100ml CFU/100ml ix Sa Water Units MPN/100ml CFU/100ml	mple Type GRAB Method Enterolert SM9222D mple Type GRAB Method Enterolert SM9222D mple Type GRAB	9/25/12 15: Batch # FB120928005 FB120928012 Received Date 9/26/12 11: Batch # FB121003010 FB121003018 Received Date 9/26/12 11:	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 6/Time San 15 Analysis Date/Time 9/26/12 13:00 9/26/12 12:10 6/Time San 15 Analysis Analysis	9/25/12 15: Analyst LV LV 101e Date 9/26/12 7: LV LV 101e Date 9/26/12 8:6	E85457 E85457 Lab ID E85457 E85457 E85457 E85457 E85457

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Laboratory Test Report

Client: Test America Tampa

Fabili) Sample Desegration

Page: Page 4 of 5

Client Project: MACTEC

Lab Project: F1209343

Report Date: 10/03/12

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F1209343-18	Sample L 9B	Description	Encar Con - www.	The second secon	Main Surface		mple Lype GRAB	Received Dat 9/26/12 11:		i ple=Date / 9/26/12 8::	
112093-13-10	,,					., ., ., .				,	
<u>Parameter</u>		Result	Qual	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> Date/Time	<u>Analyst</u>	<u>Lab ID</u>
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
	Sample I	Description	a de la composição de l		- Matr	s Sa	mple Eype	Received Dat	√Time San	role:Date/	Time
F1209343-19	10B				Surface	the state of the s	GRAB	9/26/12 11:	Manager and the supplementary of the state of the supplementary of the state of the	9/26/12 9:	Commence of the Party of the Pa
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>
Enterococcus, MPN		186		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	L V	E85457
Fecal Coliform, MF		374	В	2	2	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457
Lab. ID	Sample I	Description			Matr	ix Sa	mple=Lype=	Received Da	e/timeSan	iple Date	Time
F1209343-20	11B			And Market Control of the Control of	Surface	Water	GRAB	9/26/12 11:	15	9/26/12 9:	30
<u>Parameter</u>		Result	Qual	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>
Enterococcus, MPN		194		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	LV	E85457
Fecal Coliform, MF		489	В	2	2	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457
-Jaba D	Sample b	Description			Main	าก	nioloday do	Receover Dail		mle Date	<u> 11me</u>
F1209343-21	Sample 1 11 PUMP	Description	The second second	the annual transfer of the state of the stat	Mate Surface	the base of the same of the sa	mple lype GRAB	Received Dat 9/26/12 11:		ple Date 9/26/12 9:	mental and a second
Continue to the second	The state of the s	Description <u>Result</u>	<u>Qual</u>	MDL	Contraction of the Contraction o	the base of the same of the sa	······································				45
F1209343-21	The state of the s		**************************************	MDL 1	Surface	Water	GRAB	9/26/12 11:	15 Analysis	9/26/12 9:	45
F1209343-21 Parameter	The state of the s	Result	**************************************		Surface PQL	Water <u>Units</u>	GRAB Method	9/26/12 11: Batch #	Analysis Date/Time	9/26/12 9: Analyst	45 <u>Lab ID</u>
F1209343-21 Parameter Enterococcus, MPN	II PUMP	Result	Qual	1	Surface PQL 1 100 Mate	Water <u>Units</u> MPN/100ml CFU/100ml	Method Enterolert SM9222D	9/26/12 11: Batch # FB121003010 FB121003018 Received Dat	Analysis <u>Analysis</u> <u>Date/Time</u> 9/26/12 13:00 9/26/12 12:10	9/26/12 9: Analyst LV LV LV	45 Lab ID E85457 E85457
F1209343-21 Parameter Enterococcus, MPN Fecal Coliform, MF	II PUMP	Result 127 4700	Qual	1	Surface PQL 1 100	Water <u>Units</u> MPN/100ml CFU/100ml	GRAB Method Enterolert SM9222D	9/26/12 11: Batch # FB121003010 FB121003018	Analysis <u>Analysis</u> <u>Date/Time</u> 9/26/12 13:00 9/26/12 12:10	9/26/12 9: <u>Analyst</u> LV LV	45 Lab ID E85457 E85457
F1209343-21 Parameter Enterococcus, MPN Fecal Coliform, MF	II PUMP	Result 127 4700	Qual	1	Surface PQL 1 100 Mate	Water <u>Units</u> MPN/100ml CFU/100ml	Method Enterolert SM9222D	9/26/12 11: Batch # FB121003010 FB121003018 Received Dat	Analysis <u>Analysis</u> <u>Date/Time</u> 9/26/12 13:00 9/26/12 12:10	9/26/12 9: Analyst LV LV LV	E85457 E85457 Time
F1209343-21 Parameter Enterococcus, MPN Fecal Coliform, MF Lab-ID F1209343-22	II PUMP	Result 127 4700 Description	Qual	1 100	PQL 1 100 Mate Surface	Water <u>Units</u> MPN/100ml CFU/100ml Jx Sa	Method Enterolert SM9222D mple Type GRAB	9/26/12 11: Batch # FB121003010 FB121003018 Received Dat 9/26/12 15:	Analysis	9/26/12 9: Analyst LV L.V 1.V 10 E Date: 9/26/12 10:	E85457 E85457 Time
F1209343-21 Parameter Enterococcus, MPN Fecal Coliform, MF Lab-ID F1209343-22 Parameter	II PUMP	Result 127 4700 Description Result	Qual	1 100 MDL	Surface POL 1 100 Mattribute Surface POL	Water <u>Units</u> MPN/100ml CFU/100ml ix Sa Water <u>Units</u>	Method Enterolert SM9222D mple Expe GRAB Method	9/26/12 11: Batch # FB121003010 FB121003018 Received Dat 9/26/12 15: Batch #	Analysis	9/26/12 9: Analyst LV 1.V 1.ple Date 9/26/12 10: Analyst	Lab ID E85457 E85457 E85457 Lab ID
F1209343-21 Parameter Enterococcus, MPN Fecal Coliform, MF Lab-ID F1209343-22 Parameter Enterococcus, MPN Fecal Coliform, MF	Sample I CP	Result 127 4700 Pescription Result 2420	<u>Qual</u>	1 100 <u>MDL</u> 1	POL 1 100 Mati Surface POL 1 100 Mati	Water Units MPN/100ml CFU/100ml X Sa Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D mple Type GRAB Method Enterolert SM9222D	9/26/12 11: Batch # FB121003010 FB121003018 Received Dat 9/26/12 15: Batch # FB121003011 FB121003020 Received Dat	Analysis Date/Time 9/26/12 13:00 9/26/12 12:10 //Time San 30 Analysis Date/Time 9/26/12 15:40 9/26/12 15:40	9/26/12 9: Analyst LV LV ple Date: 9/26/12 10: Analyst LV LV LV	Lab ID E85457 E85457 Time 45 Lab ID E85457 E85457 E85457
F1209343-21 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1209343-22 Parameter Enterococcus, MPN Fecal Coliform, MF	II PUMP Sample I CP	Result 127 4700 Description Result 2420 2300	<u>Qual</u>	1 100 <u>MDL</u> 1	Surface POL 1 100 Matu Surface POL 1 100	Water Units MPN/100ml CFU/100ml X Sa Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D mple Type GRAB Method Enterolert SM9222D	9/26/12 11: Batch # FB121003010 FB121003018 Received Dat 9/26/12 15: Batch # FB121003011 FB121003020	Analysis Date/Time 9/26/12 13:00 9/26/12 12:10 //Time San 30 Analysis Date/Time 9/26/12 15:40 9/26/12 15:40	9/26/12 9: Analyst LV LV 1.V 1.V 1.V Analyst LV LV LV	Lab ID E85457 E85457 Time 45 Lab ID E85457 E85457 E85457
F1209343-21 Parameter Enterococcus, MPN Fecal Coliform, MF Lab-ID F1209343-22 Parameter Enterococcus, MPN Fecal Coliform, MF	Sample I CP	Result 127 4700 Description Result 2420 2300	<u>Qual</u>	1 100 <u>MDL</u> 1	POL 1 100 Mati Surface POL 1 100 Mati	Water Units MPN/100ml CFU/100ml X Sa Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D mple Type GRAB Method Enterolert SM9222D	9/26/12 11: Batch # FB121003010 FB121003018 Received Dat 9/26/12 15: Batch # FB121003011 FB121003020 Received Dat	Analysis Date/Time 9/26/12 13:00 9/26/12 12:10 //Time San 30 Analysis Date/Time 9/26/12 15:40 9/26/12 15:40	9/26/12 9: Analyst LV LV ple Date: 9/26/12 10: Analyst LV LV LV	Lab ID E85457 E85457 Lab ID E85457 Lab ID E85457 E85457
F1209343-21 Parameter Enterococcus, MPN Fecal Coliform, MF Lab-ID F1209343-22 Parameter Enterococcus, MPN Fecal Coliform, MF Lab-ID F1209343-23	Sample I CP	Result 127 4700 Description Result 2420 2300 Description	Qual Qual	1 100 MDL 1 100	POL 1 100 Matr Surface POL 1 100 Matr Surface	Water Units MPN/100ml CFU/100ml SX Sa Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D mple Expe GRAB Method Enterolert SM9222D mple Type GRAB	9/26/12 11: Batch # FB121003010 FB121003018 Received Dat 9/26/12 15: Batch # FB121003011 FB121003020 Received Dat 9/26/12 15:	Analysis Date/Time 9/26/12 13:00 9/26/12 12:10 //Time San 30 Analysis Date/Time 9/26/12 15:40 9/26/12 15:40 9/26/12 15:40 //Time San 30 Analysis Analysis	9/26/12 9: Analyst LV 1.V 1.P 1.V Analyst LV LV LV 1.P 1.P 1.P 1.P 1.P 1.P 1.P 1.	Lab ID E85457 E85457 Lab ID E85457 Lab ID E85457 E85457

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Laboratory Test Report

Client: Test America Tampa

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Client Project: MACTEC

Fecal Coliform, MF

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Lab Project: F1209343

Report Date: 10/03/12

Eab ID F1209343-24	Sample D 14 PUMP	escription			Matr Surface	the back and the same and the s	mple Type GRAB	Received Data 9/26/12 15:		ple Date/ 9/26/12 11:	
<u>Parameter</u>		<u>Result</u>	<u>Qual</u>	MDL	<u>POL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> Date/Time	<u>Analyst</u>	<u>Lab ID</u>
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
F1209343-25	Sample L GD 3	iescorpytor	7	1	Matr Surface		mple Type GRAB	Received Date 9/26/12 15:		npleEDar(e/ 9/26/12 11:	
<u>Parameter</u>		Result	Qual	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	Lab ID
Enterococcus, MPN		28		1	1	MPN/100ml	Enterolert	FB121003011	9/26/12 15:40	LŸ	E85457
Fecal Coliform, MF		84		2	2	CFU/100ml	SM9222D	FB121003020	9/26/12 15:40	LV	E85457
<u>Lab ID</u> F1209343-26	Sample D REVSE 2	rescription			Matr Surface	K Sai Water	mple Type GRAB	Received Dat 9/26/12 15:		i ple≡Date/ 9/26/12 12:	
<u>Parameter</u>		Result	Qual	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> Date/Time	<u>Analyst</u>	<u>Lab ID</u>
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		escription			map.	š Šii	The second secon	Receive (ED air		iple Date/ 9/26/12 12:	
F1209343-27						Motor	CDAD	0/26/12 15:			
	24B				Surface `	Water	GRAB	9/26/12 15:		9/20/12 12;	
<u>Parameter</u>	24D	<u>Result</u>	<u>Qual</u>	MDL.	POL	Water <u>Units</u>	GRAB Method	9/26/12 15: <u>Batch #</u>	Analysis Date/Time	<u>Analyst</u>	
Parameter Enterococcus, MPN	240	Result 42	Qual	MDL 1					<u>Analysis</u>		
 	Z4D		<u>Qual</u>		<u>PQL</u>	<u>Units</u>	Method	Batch #	Analysis Date/Time	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN Fecal Coliform, MF	≕Sampol <mark>e</mark> ≘€	42 3200 Cescreption		1	POL 1 100 Mate	Units MPN/100ml CFU/100ml	Method Enterolert SM9222D	Batch # FB121003011 FB121003020 Received Dat	Analysis Date/Time 9/26/12 15:40 9/26/12 15:40	Analyst LV LV nple Date	Lab ID E85457 E85457
Enterococcus, MPN Fecal Coliform, MF Lab.1D F1209343-28		42 3200 Description		1 100	POL 1 100 Matr Surface	Units MPN/100ml CFU/100ml IX Sal	Method Enterolert SM9222D mple Type GRAB	Batch # FB121003011 FB121003020 Received Date 9/26/12 15:	Analysis Date/Time 9/26/12 15:40 9/26/12 15:40	Analyst LV LV iple Date/ 9/26/12 13:	Lab ID E85457 E85457 Time 00
Enterococcus, MPN Fecal Coliform, MF	≕Sampol <mark>e</mark> ≘€	42 3200 Cescreption		1	POL 1 100 Mate	Units MPN/100ml CFU/100ml	Method Enterolert SM9222D	Batch # FB121003011 FB121003020 Received Dat	Analysis Date/Time 9/26/12 15:40 9/26/12 15:40 9/26/12 San 30	Analyst LV LV nple Date	Lab ID E85457 E85457 Time 00
Enterococcus, MPN Fecal Coliform, MF Lab.1D F1209343-28	≕Sampol <mark>e</mark> ≘€	42 3200 Description		1 100	POL 1 100 Matr Surface	Units MPN/100ml CPU/100ml ix Sa Water Units MPN/100ml	Method Enterolert SM9222D mple Type GRAB	Batch # FB121003011 FB121003020 Received Dat 9/26/12 15: Batch # FB121003011	Analysis Date/Time 9/26/12 15:40 9/26/12 15:40 //Time San 30 Analysis Date/Time 9/26/12 15:40	Analyst LV LV iple Date/ 9/26/12 13:	Lab ID E85457 E85457 Lime 00 Lab ID E85457
Enterococcus, MPN Fecal Coliform, MF Lab ID F1209343-28 Parameter Enterococcus, MPN Fecal Coliform, MF	Sample L 4TH AVE 3	42 3200 Pescription Result 107 508	Qual B	1 100 MDL	POL 1 100 Matr Surface POL 1 2	Units MPN/100ml CFU/100ml X Sa Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D Mple Lype GRAB Method Enterolert SM9222D	Batch # FB121003011 FB121003020 Received Dat 9/26/12 15: Batch # FB121003011 FB121003020	Analysis Date/Time 9/26/12 15:40 9/26/12 15:40 //Time San 30 Analysis Date/Time 9/26/12 15:40 9/26/12 15:40	LV LV nple Date/ 9/26/12 13: Analyst LV LV	Lab ID E85457 E85457 Time 00 Lab ID E85457 E85457
Enterococcus, MPN Fecal Coliform, MF Lab.ID F1209343-28 Parameter Enterococcus, MPN	Sample L 4TH AVE 3	42 3200 Escription Result 107	Qual B	1 100 MDL	POL 1 100 Mater Surface POL 1	Units MPN/100ml CFU/100ml X Sa Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D Mple Lype GRAB Method Enterolert SM9222D	Batch # FB121003011 FB121003020 Received Dat 9/26/12 15: Batch # FB121003011	Analysis Date/Time 9/26/12 15:40 9/26/12 15:40 6/Time San 30 Analysis Date/Time 9/26/12 15:40 9/26/12 15:40 9/26/12 15:40	LV LV nple Date/ 9/26/12 13: Analyst LV LV	Lab ID E85457 E85457 Time 00 Lab ID E85457 E85457
Enterococcus, MPN Fecal Coliform, MF Lab ID F1209343-28 Parameter Enterococcus, MPN Fecal Coliform, MF	Sample L 4TH AVE 3	42 3200 Pescription Result 107 508	Qual B	1 100 MDL	POL 1 100 Matr Surface POL 1 2	Units MPN/100ml CFU/100ml X Sa Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D mple Type GRAB Method Enterolert SM9222D	Batch # FB121003011 FB121003020 Received Dat 9/26/12 15: Batch # FB121003011 FB121003020 Received Dat	Analysis Date/Time 9/26/12 15:40 9/26/12 15:40 6/Time San 30 Analysis Date/Time 9/26/12 15:40 9/26/12 15:40 9/26/12 15:40	LV LV nple Date/ 9/26/12 13: Analyst LV LV	Lab ID E85457 E85457 Time 00 Lab ID E85457 E85457 E85457
Enterococcus, MPN Fecal Coliform, MF Lab-ID F1209343-28 Parameter Enterococcus, MPN Fecal Coliform, MF Lab-ID F1209343-29	Sample L 4TH AVE 3	42 3200 Pescription Result 107 508 Pescription	Qual B	1 100 MDL 1 2	POL 1 100 Matr Surface POL 1 2 Matr Surface	Units MPN/100ml CFU/100ml ix Sa Water Units MPN/100ml CFU/100ml ix Sa Water	Method Enterolert SM9222D mple Type GRAB Method Enterolert SM9222D mple Type GRAB	Batch # FB121003011 FB121003020 Received Dat 9/26/12 15: Batch # FB121003011 FB121003020 Received Dat 9/27/12 11:	Analysis Date/Time 9/26/12 15:40 9/26/12 15:40 6/Time San 30 Analysis Date/Time 9/26/12 15:40 9/26/12 15:40 9/26/12 15:40 6/Time San 20 Analysis	LV LV nple Date/ 9/26/12 13: Analyst LV LV tple Date/ 9/27/12 7:	Lab ID E85457 E85457 Time 00 Lab ID E85457 E85457 E85457

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

CFU/100m1

SM9222D

FB121003024

9/27/12 12:27

LV/SL E85457

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,			Bottle Lot #									Matrix	Sampler Signature	Sampled By (PRINT)	Phone		Address
5.10	COMINENTO			ISB	160	153	5B	33	IJ IJ	B	AS	SAMPLE DESCRIPTION	Signature (USBah	By (PRINT) 109 By ES	Fax	1 ampa	
SAMPLES ON ICE	AS IS CLIENT INITIAL:	OKAY TO BIN											3	S (AMEC)			
	-	Ton Brito	RELINQUISHED BY / AFFILIATION	V 1200 V	11145	(1130)	/ ins	(1/00)) /030 ((945	9/25/12 930 G	DATE TIME TYPE	Sample	IEC)	H ₂ SO ₄ = S	Preservative: HCl = H, HNO ₃ = N, Na ₂ S ₂ O ₃ = ST,	P.O. #
		/ AMEC	Y / AFFILIATION								•	pH ICE		PRESERVATIVES	H ₂ SO ₄ = S, NaOH = SH, NH ₄ CI = NH	HNO3 = N, Na2S2O3 =	n any c
		9hs/12 1305	DATE TIME	1/1	\ \ \	7 7	٧ \	V V	\ <u>\</u>	\ \ \	11	[4][4] /	[\$\final{\pi}{\pi}\]	ANALYSES O	[= NH	ST,	
	,		ACCEPTED BY / AFFILIATION												REQUESTED DUE DATE:	Kit #	Customer Type: /
		11-71/2016	DATE	Z	40	\$\frac{1}{8}	25	\$	£ .	24	A	Sample ID #			NTE: 1018/12		らったスカー
		8	TIME		· · · · · · · · · · · · · · · · · · ·			Pa	nge 4	8 of 7		•					

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Project Name:		# (
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Service of Nation	/	O
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Customer Type:_ Project Location: TOO AMEC Naples FL

lest America (for AMEC)

Bill To:

Report To:

I BIT America

Environmental Testing Services -aboratories inc.

Sanders

Environmental Testing Services -aboratories inc.

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	CHAIN-OF-CUSTODY
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P.O. #	Bill To:	Report To:
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Address

Client

Are S

Phone

$H_2SO_4 = S$, NaOH =	Preservative: HCI = H, HNOs = N,
	<u>Z</u>
, NH ₄ CI = NH	$la_2S_2O_3 = ST$,

REQUESTED DUE DATE: 10/8/12	Ka # 2000 1200 1000 1000 1000 1000 1000 10	Customer Type:	Project Location: Naple FL	Project Name: Naples Somme	Page of _	# 717017
7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		T	meto		
• •	,	'	•	' '	11/8/20	12

SAMPIES	CLIENT INITIAL:	COMMENTS: OKAY TO RUN		Bottle Lot #	V Reuse 1	Pw-Pump	22B	27A3	21 3	1 208	SW (B	Matrix SAMPLE DESCRIPTION	Sampler Signature	Sampled By (PRINT)	
			Some / AMEC	RELINQUISHED BY / AFFILIATION	 J 1500 d	1445	1430	1400	1330	1300	9/25 1245 Sock 1	TYPE PHICE	Sample	PRESERVATIVES	
		- 1	125/150 ()	DATE TIME ACCEPTED BY / AFFILIATION	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	5	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	< \	<u> </u>				ANALYSES (15)	
		12/10	0/18/16/16/16/16/16/16/16/16/16/16/16/16/16/	DATE TIME	15	T	3		en entine const	9 of 70	70 11 - 7 11 - 12 - 13 - 13 - 13 - 13 - 13 - 13 -	Sample ID #			



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CHAIN-OF-CUSTODY RECORD

т Т о:	
TESTANGRICA	NAMY POBERTSON

P.O. #	Bill To:	Report To:
	NAZM	CAL SECTION

$H_2SO_4 = S$, NaOH = SH, N	Preservative: HCI = H, HNO3 = N, Na2S
SH, NH4CI = NH	$Na_2S_2O_3 = ST$

Phone

813-885-7427ax

Address

EST AMERICA

(FOR AMEC

REQUESTED DUE DATE: 10/8/12	₩ 1000 1000 1000 1000 1000 1000 1000 10	Customer Type:	Project Location: Naples FL	Project Name: Storm Water	City of Naples	Pageof	PROJECT F1204343
-	-	•		•	11	/8/20	12

,		Bottle Lot #	 							Matrix	Samp	Samp
CLIENT INITIAL: SAMPLES ONICE Yes No	COMMENTS: OKAY TO RUN	Lot		11 PUMP		10B	93	8B	75	SAMPLE DESCRIPTION	Sampler Signature	Sampled By (PRINT) TOM TSATES (A.
	Draw By	RELINQUISHED BY / AFFILIATION		V 945 V) 930 /	(900 \	830)	(800)	9/2/12730 G	DATE TIME TYPE 된 단	Sample	AMEC) PRESERVATIVES
Contract Marrie History	Colored Maria	TIME ACCEPTED BY / AFFILIATION		< \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				V V		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ANALYSES / / / / / / / / REQUEST
	al su mis	DATE TIME		2	20A			5 5 0 of 7	*	Sample ID#		

PROJECT

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Sanders Environmental Testing Ser Amesica _aboratories

			Vices	INC.	
U O #	Bill To: the strange	Report To: Nancy Ke			

Preservative: HCI = H, HNO₃ = N, Na₂S₂O₃ = ST, H₂SO₄ = S, NaOH = SH, NH₄CI = NH

REQUESTED DUE DATE:

Phone

Address

Customer Type: Project Location: Project Name: . 으 11/8/2012

ON ICE	INITIAL:	COMMENTS: OKAY TO RUN AS IS		Bottle Lot RE	17 Ave 3 13	248	Res 2 12:	603	14-Pump	1 /4B 9/26 1100	SW CP 9/26 10	Matrix SAMPLE DESCRIPTION DATE TIME		Son Ada	California by (Frint)
			Son Anda /Amer	RELINQUISHED BY / AFFILIATION	1300	1245	1230	15	5	000	9/26 1045 504	ME TYPE 共 CE	Sample		
			9/26 1530 MM MM W/	DATE TIME ACCEPTED BY / AFFILIATION								(m) (m)	12 J	REQUEST/ 45/ / / / / / /	ANALYSES / \$7 , \ / / /
		-	9/24/1520	DATE TIME	18.	Z	Š		پر خ age 5	35 3- 1 of 7	70	Sample ID #		//	<i>' ' ' ' ' ' ' ' ' '</i>

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Son Environmental Testing Services _aboratories INC.

Phone

Address

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PROJECT

port To: Nancy Robertsur To: Test America	P.O. #	1	2	•
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Preservative: HCI = H, HNO3 = N, Na2S2O3 = ST,

Customer Type: Project Location:

REQUESTED DUE DATE:

1018/17

Project Name: Negles

<u>으</u>

11/8/2012

H₂SO₄ = S, NaOH = SH, NH₄CI = NH

			-	(Yes)No	A	
				SAMPLES	,	•
				CLIENT INITIAL:		
			•	OKAY TO RUN AS IS	COMMENTS:	
1901 W/D	1/21 11/0 X		Son Ada /Ama			
DATE TIME	DATE TIME ACCEPTED BY / AFFILIATION	RELINQUISHED BY / AFFILIATION C	RELINQUISHE			Bottle Lot #
Ď.		and the same of th				
ige 5						
2 of 7						
<i>9</i> 4 R	× ×		9/27 730 500		268	25
Sample ID#	KJ & / / / / / / /	pH ICE	DATE TIME TYPE	Z	SAMPLE DESCRIPTION	Matrix
		5 A C S A C A C A C A C A C A C A C A C A	Sample	`	Signature	Sampler Signature
	ANALYSES / 4 ST	PRESERVATIVES AN		Arda	Sampled By (PRINT) Scm A	Sampled



<u>TestAmerica</u>

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

Ja Jalle

Authorized for release by: 11/8/2012 8:18:37 AM

Jeremy Sadler Project Manager

jeremyr.sadler@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.

Page 53 of 70 11/8/2012

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Sample Summary	1.3

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Definitions/Glossary

Client: TestAmerica Tampa Project/Site: 660-50257 TestAmerica Job ID: G2I270439

Glossary

RL

Reporting Limit or Requested Limit (Radiochemistry only)

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

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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.

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Detection Summary

Client: TestAmerica Tampa Project/Site: 660-50257

TestAmerica Job ID: G2I270439

Lab Sample ID: G2I270439001

Lab Sample ID: G2I270439002

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Client Sample	ID:	22A3	(660-50257-12)

No Detections

Client Sample ID: REUSE 1 (660-50257-15)

No Detections

Client Sample Results

Client: TestAmerica Tampa Project/Site: 660-50257 TestAmerica Job ID: G2I270439

Lab Sample ID: G2I270439001

Lab Sample ID: G2I270439002

Matrix: Water

Matrix: Water

Client Sample ID: 22A3 (660-50257-12)

Date Collected: 09/25/12 14:00 Date Received: 09/27/12 09:15

Method: 1694 - Pharmaceuticals, H	IPLC/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)

Date Collected: 09/25/12 15:00

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

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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

lient Sample ID	3C3-Caffein (25-150)	
lient Sample ID	(25-150)	
	(23-130)	
2A3 (660-50257-12)	59	
EUSE 1 (660-50257-15)	65	
lethod Blank	37	
ab Control Sample	32	
16	EUSE 1 (660-50257-15) ethod Blank	EUSE 1 (660-50257-15) 65 ethod Blank 37

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QC Sample Results

Client: TestAmerica Tampa Project/Site: 660-50257 TestAmerica Job ID: G2I270439

restAmenca 300 ib. G21270439

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

Lab Sample ID: G2J020000093B

Matrix: Water

Analysis Batch: 2276093

MB MB

Client Sample ID: Method Blank
Prep Type: Total
Prep Batch: 2276093_P

Analyte Caffeine	Result	Qualifier	RL 15	 Unit ng/L	<u>D</u>	Prepared 10/02/12 14:12	Analyzed 10/09/12 05:57	Dil Fac
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C3-Caffeine	37		25 - 150			10/02/12 14:12	10/09/12 05:57	1

Lab Sample ID: G2J020000093C **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total** Prep Batch: 2276093_P Analysis Batch: 2276093 Spike LCS LCS %Rec. Analyte Result Qualifier Limits Added Unit D %Rec Caffeine 100 101 101 60 - 140 ng/L LCS LCS Surrogate %Recovery Qualifier Limits 13C3-Caffeine 32 25 - 150

mple Total

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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	

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Lab Chronicle

Client: TestAmerica Tampa Project/Site: 660-50257

TestAmerica Job ID: G2I270439

Lab Sample ID: G2I270439001

Matrix: Water

Matrix: Water

Client Sample ID: 22A3 (660-50257-12)

Date Collected: 09/25/12 14:00 Date Received: 09/27/12 09:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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

Date Received: 09/27/12 09:15

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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

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Method Summary

Client: TestAmerica Tampa Project/Site: 660-50257 TestAmerica Job ID: G2I270439

MethodMethod DescriptionProtocolLaboratory1694Pharmaceuticals, HPLC/MS/MS (1694)CFR136ATAL 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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Chain
<mark></mark>
Custody
Record

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6/12 Benjamin Koad Suite 100 Tampa, FL°33684 Phone: 6443 865 7040			Chain e	Chain of Custody Record	of /2	THE LEADER IN SIVEROPAGENTAL TESTING
Client Information	Samples -	及它	Lab Rot	Lab PM: Robertson, Nancy	Carner Tracking No(s):	COC No: 660-43302-14207.1
Client Contact Mr. Tom Bates	Phone: 239-50	239-564-8483		E-Mail: nancy.robertson@testamericainc.com		Page: Page 1 of 4
Company: AMEC Environment & Infrastructure, Inc.				∆nalysis	Requested	Job #
Address: 222 Industrial Blvd., Suite 155	Due Date Requested:	745	i			ion Cod
City: Naples	TAT Requested (days):	s):				
04						U - NITIC ACID P - NAZCAS E - NaHSO4 Q - NAZSO3 F - MeOH R - NAZSZSO3
£83(TeI)	PO#: C012200389					쏪
om	WO#:			lids cus a		J-Di Water
Project Name: City of Naples Stormwater	Project#: 66003057			ded So		
Site	SSOW#:			orus uspend T - Ent		© Other:
		Sample Type	ple Matrix pe (v-water,	Filtered eminish - Copper - Phosph 353.2 - Total S CONTRAC		Numbe
Sample Identification	Sample Date	0.7		Fleid Fleid 200.8 365.1 351.2 25400 SUBC		Special Instructions/Note:
	4		- Paris			
1A3	9/25/12	2.8.b	> Water	2 4 4 4		
133		9:45	Water			
20	_	1030	Water	V J V V		
315		1100 /	Water	-		
びか		2	Water	0 0 0		
1513		38	Water	< < < < < < < < < < < < < < < < < < <		diament of the control of the contro
16B		145	Water	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		BAC is hard
19 B		1200	Water	4 4 4		delivered to
6B		1245	Water	V V V V		Sarder had
2013		300	Water	V d V V		# Ft. Myers
2)日	W /	1300 V	Water	V		
Possible Hazard Identification Non-Hazard Flammable Skin Irritant Pois	Poison B Unknown	wn Radiological	logical	Sample Disposal (A fee may t	essed if samples oosal By Lab	are retained longer than 1 month) Archive For Months
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:		
Empty Kit Relinquished by: M. Ke. L.V.	-	Date: 9-/ 7-	زر	ime:	Method of Shipment	
Relinquished by:	9/25/12 Date/Time:	1815	Company	Received by:	Me Wett Date/Time:	6/12 0850 Combany
Relinquished by:	Date/Time:		Company	Received by:	Date/Time;	Company
Custody Seals Intact. Custody Seal No.				Cooler Temperature(s) 'C and Other	1. Serieste (1) 7. 7. 2	

Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-50257-1

Login Number: 50257 List Source: TestAmerica Tampa

List Number: 1 Creator: McNulty, Carol

•		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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	

N/A

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Residual Chlorine Checked.

Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-50257-1

Login Number: 50257
List Source: TestAmerica Pittsburgh
List Number: 1
List Creation: 09/27/12 11:01 AM

Creator: Watson, Debbie

, ,		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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	
s 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	

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Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-50257-1

List Source: TestAmerica Tallahassee
List Number: 1
List Creation: 09/28/12 02:50 PM

Creator: Mitchell, Travis X

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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 ampered 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	
s 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	

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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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Total Access

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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 StormwaterOLD

Relative error ratio

Decision level concentration

Duplicate error ratio (normalized absolute difference)

Reporting Limit or Requested Limit (Radiochemistry only)

TestAmerica Job ID: 660-50294-1

Qualifiers

Metals

Qualifier	Qualifier Description
Ī	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.
1	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

Glossary

RER

DER

DLC

RL

bbreviation	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
NF	Contains no Free Liquid
L, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DL	Estimated Detection Limit
:PA	United States Environmental Protection Agency
1DL	Method Detection Limit
1L	Minimum Level (Dioxin)
ID	Not detected at the reporting limit (or MDL or EDL if shown)
QL	Practical Quantitation Limit
OC .	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
EF	Toxicity Equivalent Factor (Dioxin)
EQ	Toxicity Equivalent Quotient (Dioxin)
1DA	Minimum detectable activity
1DC	Minimum detectable concentration

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.

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

005 15. 000 00201 1

Client Sample ID: 7B	Lab Sample ID: 660-50294-1
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Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	20		2.0	0.14	ug/L		_	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
Nitrogen, Kjeldahl	1.4		0.20	0.050	mg/L	1	351.2	Recoverable 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 Nitroge	en 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		_	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		_	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	1	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

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

Client Sample ID: 11 Pump (Continued)

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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		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	1	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

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Client Sample ID: 14B

Lab Sample ID: 660-50294-8

Analyte	Result Q	ualifier	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

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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

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Client Sample ID: GD3

Lab Sample ID: 660-50294-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D N	Method	Prep Type
Copper	3.5		2.0	0.14	ug/L		_ 2	200.8	Total
									Recoverable
Nitrogen, Kjeldahl	0.46		0.20	0.050	mg/L	1	3	351.2	Total/NA
Phosphorus	0.020		0.010	0.0044	mg/L	1	3	365.1	Total/NA
Total Suspended Solids	8.8		1.0	1.0	mg/L	1	5	SM 2540D	Total/NA
Nitrogen, Total	0.46	1	0.70	0.15	mg/L	1	Т	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

Client Sample ID: 4th Ave 3

TestAmerica Job ID: 660-50294-1

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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
									Recoverable
Nitrogen, Kjeldahl	2.7		0.20	0.050	mg/L	1		351.2	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

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		_	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

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

TestAmerica Job ID: 660-50294-1

Lab Sample ID: 660-50294-1

Matrix: Water

Date Collected: 09/26/12 07:30 Date Received: 09/27/12 08:40

Client Sample ID: 7B

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

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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

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

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

TestAmerica Job ID: 660-50294-1

Lab Sample ID: 660-50294-3

Matrix: Water

Date Collected: 09/26/12 08:30 Date Received: 09/27/12 08:40

Client Sample ID: 9B

Method: 200.8 - Metals (ICP/MS) - Total Recove	rable							
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

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

TestAmerica Job ID: 660-50294-1

Lab Sample ID: 660-50294-4

Matrix: Water

Date Collected: 09/26/12 09:00 Date Received: 09/27/12 08:40

Client Sample ID: 10B

Method: 200.8 - Metals (ICP/MS	- Total Recove	rable							
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

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

TestAmerica Job ID: 660-50294-1

Lab Sample ID: 660-50294-5

Date Collected: 09/26/12 09:30 Matrix: Water

Date Received: 09/27/12 08:40

Client Sample ID: 11B

Method: 200.8 - Metals (ICP/MS	S) - Total Recove	rable							
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

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

TestAmerica Job ID: 660-50294-1

Lab Sample ID: 660-50294-6

Matrix: Water

Date Collected: 09/26/12 09:45 Date Received: 09/27/12 08:40

Client Sample ID: 11 Pump

Method: 200.8 - Metals (ICP/MS)	- Total Recove	rable							
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	1	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: 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/M	S) - Total Recove	rable							
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	1	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

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

TestAmerica Job ID: 660-50294-1

Lab Sample ID: 660-50294-8

Date Collected: 09/26/12 11:00 Date Received: 09/27/12 08:40

Client Sample ID: 14B

Matrix: Water

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

TestAmerica Job ID: 660-50294-1

Lab Sample ID: 660-50294-9

Date Collected: 09/26/12 11:15 Matrix: Water

Date Received: 09/27/12 08:40

Client Sample ID: 14 Pump

Method: 200.8 - Metals (ICP/MS) - Total Recove	rable							
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: AMEC Environment & Infrastructure, Inc. Project/Site: City of Naples StormwaterOLD

TestAmerica Job ID: 660-50294-1

Lab Sample ID: 660-50294-10

10/09/12 08:37

Matrix: Water

Date Collected: 09/26/12 11:45 Date Received: 09/27/12 08:40

Client Sample ID: GD3

Nitrogen, Total

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

0.70

0.46 I

0.15 mg/L

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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	S) - Total Recove	rable							
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

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

TestAmerica Job ID: 660-50294-1

Lab Sample ID: 660-50294-12

Matrix: Water

Date Collected: 09/26/12 12:45 Date Received: 09/27/12 08:40

Client Sample ID: 24B

Method: 200.8 - Metals (ICP/MS) - Total Recove	rable							
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

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

TestAmerica Job ID: 660-50294-1

10/09/12 08:37

Lab Sample ID: 660-50294-13

Matrix: Water

Date Collected: 09/26/12 13:00 Date Received: 09/27/12 08:40

Nitrogen, Total

Client Sample ID: 4th Ave 3

Method: 200.8 - Metals (ICP/MS) - Total Recove	rable							
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

0.70

1.2

0.15 mg/L

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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

		3C3-Caffein	
Lab Sample ID	Client Sample ID	(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			

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

Method: 200.8 - Metals (ICP/MS)

Analysis Batch: 54826

Copper

Lab Sample ID: MB 180-50442/1-A Client Sample ID: Method Blank **Matrix: Water Prep Type: Total Recoverable**

Prep Batch: 50442

88

85 - 115

Result Qualifier PQL MDL Unit D Dil Fac Analyte Prepared Analyzed 2.0 0.14 ug/L 10/02/12 09:27 Copper 0.14 U 11/08/12 22:31

Lab Sample ID: LCS 180-50442/2-A Client Sample ID: Lab Control Sample **Matrix: Water Prep Type: Total Recoverable Analysis Batch: 54826** Prep Batch: 50442

LCS LCS Spike Added Analyte Result Qualifier Unit %Rec Limits

250

мв мв

Lab Sample ID: LCSD 180-50442/3-A Client Sample ID: Lab Control Sample Dup

220

ug/L

Matrix: Water Prep Type: Total Recoverable Prep Batch: 50442 Analysis Batch: 54826 Spike LCSD LCSD %Rec. RPD

Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 250 221 Copper ug/L 85 - 115

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 660-129905/10-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 130003 Prep Batch: 129905 MB MB

Result Qualifier Analyte PQL MDL Unit Prepared Analyzed Dil Fac 0.050 U 0.20 0.050 10/03/12 16:00 10/04/12 21:03 Nitrogen, Kjeldahl ma/L

Lab Sample ID: LCS 660-129905/11-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 130003 Prep Batch: 129905**

Spike LCS LCS %Rec.

Added Result Qualifier Unit Limits Analyte D %Rec 3.00 Nitrogen, Kjeldahl 2.74 mg/L 91 90 - 110

Lab Sample ID: 660-50294-4 MS Client Sample ID: 10B **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 130003 Prep Batch: 129905**

MS MS Sample Sample Spike %Rec. Result Qualifier Result Qualifier Added Analyte Unit D %Rec Limits Nitrogen, Kjeldahl 1.1 J3 3.00 0.950 J3 mg/L 90 - 110

Lab Sample ID: 660-50294-4 MSD Client Sample ID: 10B **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 130003 Prep Batch: 129905**

Sample Sample Spike MSD MSD %Rec. RPD Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits RPD Limit Nitrogen, Kjeldahl 1.1 J3 3.00 1.01 J3 mg/L 90 - 110

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

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: MB 660-130027/10-A	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total/NA
Analysis Batch: 130090	Prep Batch: 130027

мв мв

Analyte	Result	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 **Client Sample ID: Lab Control Sample** Matrix: Water Prep Type: Total/NA Prep Batch: 130027 Analysis Batch: 130090 LCS LCS Spike

Analyte Added Result Qualifier Unit %Rec Limits Nitrogen, Kjeldahl 3.00 2.74 mg/L 91 90 - 110

Lab Sample ID: 660-50294-9 MS Client Sample ID: 14 Pump **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 130090 Prep Batch: 130027 Sample Sample Spike MS MS %Rec.

Result Qualifier Added Result Qualifier Unit D %Rec Limits Nitrogen, Kjeldahl 1.1 J3 2.47 3.81 J3 90 - 110 mg/L

Lab Sample ID: 660-50294-9 MSD Client Sample ID: 14 Pump

Prep Type: Total/NA **Matrix: Water** Analysis Batch: 130090 Prep Batch: 130027

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier RPD Limit Unit %Rec Limits Nitrogen, Kjeldahl 1.1 J3 2.47 3.94 J3 mg/L 116 90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 660-129968/3 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 129968

	IVID	IVID						
Analyte	Result	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 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 129968

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Nitrate Nitrite as N	1.00	1.03		mg/L		103	90 - 110	

Lab Sample ID: 660-50294-1 MS Client Sample ID: 7B **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 129968										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Nitrate Nitrite as N	0.10	U	1.00	0.991		mg/L		99	90 - 110	

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

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

Client Sample ID: 7B Prep Type: Total/NA

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 129968

Lab Sample ID: 660-50294-1 MSD

Lab Sample ID: MB 660-130017/3

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Nitrate Nitrite as N	0.10	U	1.00	0.995		mg/L		100	90 - 110	0	30

Client Sample ID: Method Blank

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Client Sample ID: Lab Control Sample

Matrix: Water

Analysis Batch: 130017

MB MB

Analyte	Result	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 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 130017

	эріке	LUS	LUS			%Rec.	
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	
Nitrate Nitrite as N	1.00	1.05	mg/L		105	90 - 110	 _

Lab Sample ID: 660-50294-13 MS Client Sample ID: 4th Ave 3 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 130017

Sample Sample %Rec. Spike MS MS Result Qualifier Added Result Qualifier Unit %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 Client Sample ID: 4th Ave 3 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 130017

١	•	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	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 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 96332							Prep Batc	h: 96283
	MB	MB						
Analyte	Result	Qualifier	PQL	MDL Unit	D	Prepared	Analyzed	Dil Fac

0.0044 U 10/02/12 10:03 Phosphorus 0.010 0.0044 mg/L 10/03/12 11:15

Lab Sample ID: LCS 640-96283/5-A

Matrix: Water

Analysis Batch: 96332						Prep	Batch: 96283
	Spike	LCS LCS				%Rec.	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	
Phosphorus	0.100	0.0990	mg/L		99	90 - 110	

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Prep Type: Total/NA

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Client Sample ID: Method Blank

10/02/12 07:57

Prep Type: Total/NA

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					Clie	nt Sam	nole ID:	Lab Contro	l Sampl	e Dup
Matrix: Water									ype: To	•
Analysis Batch: 96332									Batch:	
		Spike	LCSD	LCSD				%Rec.		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Phosphorus		0.100	0.0948		mg/L		95	90 - 110	4	30
Lab Sample ID: 660-50294-1 MS								Client 9	Sample	ID: 7B
Matrix: Water									ype: To	
Analysis Batch: 96332								•	Batch:	
	Sample	Spike	MS	MS				%Rec.		
Analyte Resul	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Phosphorus 0.084	J3	0.100	0.202	J3	mg/L		118	90 - 110		
Lab Sample ID: 660-50294-1 MSD								Client	Sample	ID: 7B
Matrix: Water									ype: To	
Analysis Batch: 96332								•	Batch:	
	Sample	Spike	MSD	MSD				%Rec.	Dateii.	RPD
•	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	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								Client 9	Sample	ID: 7B
Matrix: Water									ype: To	
Analysis Batch: 96332								•	Batch:	
	Sample		DU	DU					D utoiii	RPD
•	Qualifier		Result	Qualifier	Unit	D			RPD	Limit
Phosphorus 0.084	J3		0.0785		mg/L				7	30

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

1.0 U

Lab Sample ID: MB 660-129815/1

Matrix: Water

Total Suspended Solids

Analysis Batch: 129815									
	MB	MB							
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: LCS 660-129815/2			Client Sample ID: Lab Control Sample
Matrix: Water			Prep Type: Total/NA
Analysis Batch: 129815			
	• "	100 100	0/ 5

1.0

1.0 mg/L

, ,	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Total Suspended Solids	100	94.8		mg/L		95	80 - 120	

Lab Sample ID: 660-50294-4 DU	Client Sample ID: 10B
Matrix: Water	Prep Type: Total/NA
Analysis Patch, 120915	

- 1	7									
		Sample	Sample	DU	DU				RPD	
	Analyte	Result	Qualifier	Result	Qualifier	Unit	D	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

Analyte

Total Suspended Solids

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

Result Qualifier

2.0

TestAmerica Job ID: 660-50294-1

	1		

Limit

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Lab Sample ID: MB 660-129857/1 Matrix: Water												Client S	Sample ID: Met Prep Type		
Analysis Batch: 129857															••••
Analysis Batom 120001		МВ	МВ												
Analyte	R	esult	Qualifier		PQL		MDL	Unit		D	Р	repared	Analyzed		Dil Fac
Total Suspended Solids		1.0	U		1.0		1.0	mg/L					10/03/12 07:2	23	1
Lab Sample ID: LCS 660-129857/2										Cli	ent	Sample	e ID: Lab Cont	rol S	ample
Matrix: Water													Prep Type	e: To	tal/NA
Analysis Batch: 129857															
				Spike		LCS	LCS						%Rec.		
Analyte				Added		Result	Qua	lifier	Unit		D	%Rec	Limits		
Total Suspended Solids				100		94.4			mg/L		_	94	80 - 120		
Lab Sample ID: 660-50294-5 DU													Client Sam	ple II	D: 11B
Matrix: Water													Prep Type	e: To	tal/NA
Analysis Batch: 129857															
	Sample	Samp	ole			DU	DU								RPD
Analyte	Result	Quali	ifier			Result	Qua	lifier	Unit		D		I	RPD	Limit
Total Suspended Solids	3.6					3.60			mg/L		_			0	20
Lab Sample ID: 660-50294-13 DU												Cli	ent Sample ID	: 4th	Ave 3
Matrix: Water													Prep Type		
Analysis Batch: 129857													. 31		
	Sample	Samp	ole			DU	DU								RPD

Result Qualifier

2.40

Unit

mg/L

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

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	СР	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	СР	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	

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

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	

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

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	

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

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	СР	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	

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

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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	ТО	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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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	ТО	TAL TAN
Total/NA	Analysis	353.2		1	129968	10/04/12 17:21	ТО	TAL TAN
Total/NA	Prep	351.2			130027	10/05/12 15:30	ТО	TAL TAN
Total/NA	Analysis	351.2		1	130090	10/08/12 14:25	ТО	TAL TAN
Total/NA	Analysis	Total Nitrogen		1	130109	10/09/12 08:20	RWF	TAL TAN

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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	ТО	TAL TAM
Total/NA	Analysis	353.2		1	129968	10/04/12 17:23	ТО	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

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

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

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	ТО	TAL TAM
Total/NA	Analysis	353.2		1	129968	10/04/12 17:24	ТО	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	ТО	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

Date Received: 09/27/12 08:40

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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 TAN
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 TAN
Total/NA	Analysis	351.2		1	130090	10/08/12 14:29	TO	TAL TAN
Total/NA	Analysis	Total Nitrogen		1	130109	10/09/12 08:20	RWF	TAL TAN

Client Sample ID: 11 Pump Lab Sample ID: 660-50294-6

Date Collected: 09/26/12 09:45 Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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

TestAmerica Tampa 11/9/2012

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

Client Sample ID: CP Lab Sample ID: 660-50294-7

Date Collected: 09/26/12 10:45

Date Received: 09/27/12 08:40

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	ТО	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	130109	10/09/12 08:20	RWF	TAL TAM

Client Sample ID: 14B

Date Collected: 09/26/12 11:00

Lab Sample ID: 660-50294-8

Matrix: Water

Date Received: 09/27/12 08:40

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	ТО	TAL TAM
Total/NA	Analysis	Total Nitrogen		1	130109	10/09/12 08:37	RWF	TAL TAM

Client Sample ID: 14 Pump

Date Collected: 09/26/12 11:15

Lab Sample ID: 660-50294-9

Matrix: Water

Date Received: 09/27/12 08:40

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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

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

Client Sample ID: GD3

Lab Sample ID: 660-50294-10

Matrix: Water

Date Collected: 09/26/12 11:45 Date Received: 09/27/12 08:40

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	то	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

Date Received: 09/27/12 08:40

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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 TAN
Total/NA	Analysis	353.2		1	130017	10/04/12 18:48	TO	TAL TAN
Total/NA	Prep	351.2			130027	10/05/12 15:30	TO	TAL TAN
Total/NA	Analysis	351.2		1	130090	10/08/12 14:42	TO	TAL TAN
Total/NA	Analysis	Total Nitrogen		1	130109	10/09/12 08:37	RWF	TAL TAN

Client Sample ID: 24B Lab Sample ID: 660-50294-12

Date Collected: 09/26/12 12:45 Matrix: Water

Batch Batch Dilution Batch Prepared Method Factor Number or Analyzed **Prep Type** Type Run Analyst Lab Total Recoverable Prep 200.8 50442 10/02/12 09:27 CH TAL PIT Total Recoverable Analysis 200.8 54826 11/08/12 23:51 BR TAL PIT 1 Total/NA 365.2/365.3/365 96283 10/02/12 10:03 AJN TAL TAL Prep 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 353.2 130017 10/04/12 18:52 TO TAL TAM Analysis 1 Total/NA Prep 351.2 130027 10/05/12 15:30 TO TAL TAM Total/NA 130090 10/08/12 14:44 TO TAL TAM Analysis 351.2 Total/NA Analysis Total Nitrogen 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

Lab Sample ID: 660-50294-13

Matrix: Water

Client Sample ID: 4th Ave 3 Date Collected: 09/26/12 13:00

Date Received: 09/27/12 08:40

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	ТО	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

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

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

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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	Microbiology	NONE	
Fecal Coliform			

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	СР	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

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Laboratory Test Report

Lab Project #: F1209343

Page 1 of

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 813-885-7427

Phone:

none: 615-665-742

Fax: E-mail:

Project Name:

lame: 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 POL'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

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11/9/2012

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Laboratory Test Report

Client: Test America Tampa

Page: Page 1 of 5

Client Project: MACTEC

Lab Project: F1209343

Report Date: 10/03/12

Eab ID S					Matr		mpled Expe	Received Dat	Value and a second	inla Nara	
	A3 A3	escription			Surface '	And the second s	GRAB	9/25/12 13:		9/25/12 9:3	
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN		152		4	4	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF		673	В	9	9	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457
Company of the Compan	Sample: D B	escription	Para parameter Contraction		Matr Surface	The same of the sa	mple Type GRAB	Received Date 9/25/12 13:		iple Date/ 9/25/12 9:4	
F1209343-02	D				Билиос	W their	GKAD	7/23/12 13.		<i>7.</i> 2. 7.	
<u>Parameter</u>		Result	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	Lab ID
Enterococcus, MPN		100		100	100	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF		231	В	3	3	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457
	CHARLES THE CONTRACT OF THE CO	escription			Man	WANTED TATE OF THE PARTY OF THE	mple Type	Received Dat		i ple_Date / 9/25/12 10:	
F1209343-03 2	2B				Surface	water	GRAB	9/25/12 13:		9/23/12 10:	30
<u>Parameter</u>		Result	Qual	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN		961		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457
Fecal Coliform, MF		1840	В	9	9	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	L V	E85457
	**************************************	rescription			Matr Surface		mple Type GRAB	Received Date 9/25/12 13:	The state of the s	nple Date 9/25/12 11:	
F1209343-04 3	B				Burrace	water	UKAB	9123112 13.		9/23/12 11.	VV
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN		47		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E 8 5457
Fecal Coliform, MF		259	В	2	2	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E 8 5457
	***************************************	teseription			Mati		mple Lype	Received Dat	THE RESERVE THE PROPERTY OF THE PARTY OF THE	ple Date	AND ASSESSMENT OF THE PROPERTY OF THE PARTY
F1209343-05 5	5B				Surface	Water	GRAB	9/25/12 13:	:05	9/25/12 11:	15
<u>Parameter</u>		Result	<u>Qual</u>	MDL	POL	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
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
The second secon	Sample I 15B	lescriptio n			Matr Surface		mple Type GRAB	Received Dat 9/25/12 13		p ie Date 9/25/12 11:	
<u>Parameter</u>		Result	<u>Qual</u>	MDL	POL	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>

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

MPN/100ml

Enterolert

FB120928004

9/25/12 15:00

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Enterococcus, MPN

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E85457

Laboratory Test Report

Client:

Test America Tampa

Sample Description

Client Project: MACTEC

Page: Page 2 of 5

Lab Project: F1209343

Report Date: 10/03/12

								Report Date: 10/03/12					
LabID	Control of the Charles of the Charle	eser prior		and the state of t	Mati		mple Type	Received Dat		iple Date			
F1209343-06	15B				Surface '	Water	GRAB	9/25/12 13:	05	9/25/12 11:	30		
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>POL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>		
Fecal Coliform, MF		230		10	10	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457		
a5(1911)直接。	-Sample D	resempnor			Matr	ix Sai	milelyne=	Received Dat	e/Eime San	iple Daile	4 inc		
F1209343-07	16B			A A TO A COMMON TOWNS OF THE PARTY OF THE PA	Surface '	Water	GRAB	9/25/12 13:	05	9/25/12 11;	45		
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>		
Enterococcus, MPN		39		1	1	MPN/100m1	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		
elsahi iDa	Sample E	esemption			Matr		mple=1-ype	Received Dat	e/fimeSan	iple-Date	#lime===		
F1209343-08	19B				Surface '	Water	GRAB	9/25/12 13:	05	9/25/12 12:	00		
<u>Parameter</u>		Result	<u>Qual</u>	MDL	POL	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>		
Enterococcus, MPN		27		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457		
Fecal Coliform, MF		410		10	10	CFU/100mi	SM9222D	FB120928011	9/25/12 14:40	LV	E85457		
		Description			Mate	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	mple Type	Received Dat			The state of the s		
F1209343-09	Sample:L 6B)eseijnilmi			Matr Surface	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	mple Eype GRAB	Received Dat 9/25/12 15:		iple Date 9/25/12 12:	The state of the s		
		Result	<u>Qual</u>	MDL		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					45		
F1209343-09				MDL 1	Surface	Water	GRAB	9/25/12 15:	50 <u>Analysis</u>	9/25/12 12:	45		
F1209343-09 Parameter		Result			Surface PQL	Water <u>Units</u>	GRAB Method	9/25/12 15: Batch #	50 Analysis Date/Time	9/25/12 12: <u>Analyst</u>	45 <u>Lab ID</u>		
F1209343-09 Parameter Enterococcus, MPN	6B	Result	<u>Qual</u>	1	Surface POL 1	Water <u>Units</u> MPN/100ml CFU/100ml	GRAB Method Enterolert	9/25/12 15: <u>Batch #</u> FB120928005	50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 c/Fime San	9/25/12 12: Analyst LV LV	Lab ID E85457 E85457 Time		
F1209343-09 Parameter Enterococcus, MPN Fecal Coliform, MF	6B Sample₌I	Result 101 5200	<u>Qual</u>	1	Surface PQL 1 100 Mate	Water <u>Units</u> MPN/100ml CFU/100ml	Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Date	50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 c/Fime San	9/25/12 12; Analyst LV LV in the Date.	Lab ID E85457 E85457 75 me		
F1209343-09 Parameter Enterococcus, MPN Fecal Coliform, MF Lab 10 F1209343-10	6B Sample₌I	Result 101 5200 Description	<u>Qual</u>	1	POL 1 100 Mate Surface	Water <u>Units</u> MPN/100ml CFU/100ml ix Sa) Water	Method Enterolert SM9222D mple Type GRAB	9/25/12 15: Batch # FB120928005 FB120928012 Received Date 9/25/12 15:	50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 c/Pime—San 50 Analysis	9/25/12 12: Analyst LV LV nple Date: 9/25/12 13:	Lab ID E85457 E85457 75 me		
F1209343-09 Parameter Enterococcus, MPN Fecal Coliform, MF Lab LD F1209343-10 Parameter	6B Sample₌I	Result 101 5200 Description Result	<u>Qual</u>	1 100 <u>MDL</u>	POL 1 100 Mate Surface	Water Units MPN/100ml CFU/100ml Ix Sa) Water Units	Method Enterolert SM9222D mple Type GRAB Method	9/25/12 15: Batch # FB120928005 FB120928012 Received Date 9/25/12 15: Batch #	Analysis	9/25/12 12: Analyst LV LV iple Date 9/25/12 13: Analyst	Lab ID E85457 E85457 Chine 00 Lab ID		
F1209343-09 Parameter Enterococcus, MPN Fecal Coliform, MF Lab-ID F1209343-10 Parameter Enterococcus, MPN Fecal Coliform, MF	Sample I 20B	Result 101 5200 Pescription Result 2420	<u>Qual</u> <u>Qual</u>	1 100 <u>MDL</u> 1	POL 1 100 Matr Surface POL 1 100	Water Units MPN/100ml CFU/100ml IX Sa) Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D mple Evpe GRAB Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Dat 9/25/12 15: Batch # FB120928005 FB120928012 Received Dat	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 6/Time San 50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:44 9/25/12 16:11	9/25/12 12: Analyst LV LV 1ple Date 9/25/12 13: Analyst LV LV	Lab ID E85457 E85457 Lab ID E85457 Lab ID E85457 E85457		
F1209343-09 Parameter Enterococcus, MPN Fecal Coliform, MF Lab-10 F1209343-10 Parameter Enterococcus, MPN Fecal Coliform, MF	Sample P	Result 101 5200 Pescal pelot Result 2420 4000	<u>Qual</u> <u>Qual</u>	1 100 <u>MDL</u> 1	POL 1 100 Mate Surface POL 1 100	Water Units MPN/100ml CFU/100ml IX Sa) Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D mple Type GRAB Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Dat 9/25/12 15: Batch # FB120928005 FB120928005 FB120928012	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 6/Time San 50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:44 9/25/12 16:11	9/25/12 12; Analyst LV LV 1ple Date 9/25/12 13; Analyst LV LV	Lab ID E85457 E85457 Lab ID E85457 Lab ID E85457 E85457		
F1209343-09 Parameter Enterococcus, MPN Fecal Coliform, MF Lab-ID F1209343-10 Parameter Enterococcus, MPN Fecal Coliform, MF	Sample I 20B	Result 101 5200 Pescal pelot Result 2420 4000	<u>Qual</u> <u>Qual</u>	1 100 <u>MDL</u> 1	POL 1 100 Matr Surface POL 1 100	Water Units MPN/100ml CFU/100ml IX Sa) Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D mple Evpe GRAB Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Dat 9/25/12 15: Batch # FB120928005 FB120928012 Received Dat	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 6/Time San 50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:44 9/25/12 16:11	9/25/12 12: Analyst LV LV 1ple Date 9/25/12 13: Analyst LV LV	Lab ID E85457 E85457 Lab ID E85457 Lab ID E85457 E85457 E85457		
Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1209343-10 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1209343-11	Sample I 20B	Result 5200 Pescription Result 2420 4000 Pescription	<u>Qual</u>	1 100 MDL 1 100	POL 1 100 Mate Surface POL 1 100 Mati Surface	Water Units MPN/100ml CFU/100ml ix Sa Water Units MPN/100ml CFU/100ml ix Sa	Method Enterolert SM9222D Mple Type GRAB Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Date 9/25/12 15: Batch # FB120928005 FB120928012 Received Date 9/25/12 15:	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 6/Time San 50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:44 9/25/12 16:11 6/Time San Analysis Analysis	9/25/12 12: Analyst LV LV 19/25/12 13: Analyst LV LV LV 1ple Date 9/25/12 13:	Lab ID E85457 E85457 Lab ID E85457 Lab ID E85457 E85457 E85457		

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

Matrix Sample Type Received Date/Lime Sample Date/Lime

Laboratory Test Report

Client: Test America Tampa

Page: Page 3 of 5

Client Project: MACTEC

Lab Project: F1209343

Report Date: 10/03/12

								Report Date:	10/05/12		
Ealia ID	<u></u>	escription			Matr	A TRACTOR MANAGEMENT OF THE PARTY OF THE PAR	nple Type	Received Date		iple Date	
F1209343-12	22A3				Surface	Water	GRAB	9/25/12 15:	50	9/25/12 14:	00
<u>Parameter</u>		Result	Qual	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN		162		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF		2450	В	9	9	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457
Enbid :	Sample D	escription				ix Sai	ar you				
F1209343-13	22B				Surface	Water	GRAB	9/25/12 15:	50	9/25/12 14:	30
<u>Parameter</u>		Result	Qual	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN		378		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457
Fecal Coliform, MF		2340	В	9	9	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457
jabild -	Sample D	escription			Matr	ix Sai	mple=Expe	Receiver Dan	e/Fime San	iple Date/	Time
F1209343-14	PW PUMP	3 8500			Surface '	Water	GRAB	9/25/12 15:	50	9/25/12 14:	45
<u>Parameter</u>		Result	Qual	MDL.	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>
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
	Sample D	eseription			Maa	k Sn	nijo) (sii livy) (s	EKROKVOEDA	NII (Awang Calaman Amara)	iple Date	dilinie eeu
F1209343-15	Sample D REUSE 1	म्बद्धानम्			Main Surface		mple Evpe GRAB	≣RecolvedEDa(t 9/25/12 15:	e/Finie San	iple Date/ 9/25/12 15:	
		eseription Result	Qual	MDL					e/Finie San		00
F1209343-15				MDL 1	Surface '	Water	GRAB	9/25/12 15:	e/Time San 50 <u>Analysis</u>	9/25/12 15:	00
F1209343-15 Parameter		Result	Qual		Surface '	Water <u>Units</u>	GRAB Method	9/25/12 15: Batch #	e/TimeSan 50 Analysis Date/Time	9/25/12 15: <u>Analyst</u>	00 <u>Lab ID</u>
F1209343-15 Parameter Enterococcus, MPN	REUSE 1	Result	Qual U U	1	Surface 'POL	Water <u>Units</u> MPN/100ml CFU/100ml	GRAB Method Enterolert	9/25/12 15: Batch # FB120928005 FB120928012 Received Dat	### Analysis Date/Time	9/25/12 15: Analyst LV LV iple Date/	Lab ID E85457 E85457
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF	REUSE 1	Result 1 2	Qual U U	1	Surface POL 1 2	Water <u>Units</u> MPN/100ml CFU/100ml	Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012	### Analysis Date/Time	9/25/12 15: <u>Analyst</u> LV LV	Lab ID E85457 E85457
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF	REUSE 1	Result 1 2	Qual U U	1	POL 1 2 Mate	Water <u>Units</u> MPN/100ml CFU/100ml	Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Dat	### Analysis Date/Time	9/25/12 15: Analyst LV LV iple Date/	Lab ID E85457 E85457 Time 30
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF Lab-10 F1209343-16	REUSE 1	Result 1 2 Description	Qual U U	1 2	POL 1 2 Matr Surface	Water Units MPN/100ml CFU/100ml X S70 Water	Method Enterolert SM92222D miple Type GRAB	9/25/12 15: Batch # FB120928005 FB120928012 Received Date 9/26/12 11:	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 e/Time San 15 Analysis	9/25/12 15: Analyst LV LV IDle Date/ 9/26/12 7::	Lab ID E85457 E85457 Time 30
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF Enteropy F1209343-16 Parameter	REUSE 1	Result 1 2 Description Result	Qual U U	1 2 <u>MDL</u>	POL 1 2 Mate Surface POL	Water <u>Units</u> MPN/100ml CFU/100ml IX Sa) Water <u>Units</u>	Method Enterolert SM9222D mple=Pype GRAB Method	9/25/12 15: Batch # FB120928005 FB120928012 Received Dat 9/26/12 11: Batch #	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 e/Eime San 15 Analysis Date/Time	9/25/12 15: Analyst LV LV iple Date/ 9/26/12 7:: Analyst	Lab ID E85457 E85457 4-ime 30 Lab ID
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF Lab-ID F1209343-16 Parameter Enterococcus, MPN	REUSE 1 Sample D 7B	Result 2 Description Result 27	Qual U U Qual B	1 2 <u>MDL</u>	POL 1 2 Matr Surface POL 1 2 Matr Surface	Water Units MPN/100ml CFU/100ml ix Sa Water Units MPN/100ml CFU/100ml	Method Enterolert SM92222D IIIII Type GRAB Method Enterolert	9/25/12 15: Batch # FB120928005 FB120928012 Received Dat 9/26/12 11: Batch # FB121003010	Analysis Date/Time 9/25/12 16:11 E/Time San 15 Analysis Date/Time 9/26/12 13:00 9/26/12 12:10	9/25/12 15: Analyst LV LV ple Date/ 9/26/12 7: Analyst LV LV	Lab ID E85457 E85457 Time 30 Lab ID E85457 E85457
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF Labeld F1209343-16 Parameter Enterococcus, MPN Fecal Coliform, MF	REUSE 1 Sample D 7B	Result 2 Result 27 15	Qual U U Qual B	1 2 <u>MDL</u>	POL 1 2 Matr Surface POL 1 2	Water Units MPN/100ml CFU/100ml ix Sa Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D IIIII Type GRAB Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Dat 9/26/12 11: Batch # FB121003010 FB121003018	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 6/Time San 15 Analysis Date/Time 9/26/12 13:00 9/26/12 12:10 e/Time San	9/25/12 15: Analyst LV LV ple Date/ 9/26/12 7: Analyst LV LV	Lab ID E85457 E85457 Time 30 Lab ID E85457 E85457
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF Lab-ID F1209343-16 Parameter Enterococcus, MPN Fecal Coliform, MF	Sample D	Result 2 Result 27 15	Qual U U Qual B	1 2 <u>MDL</u>	POL 1 2 Matr Surface POL 1 2 Matr Surface	Water Units MPN/100ml CFU/100ml ix Sa Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D Ipple Type GRAB Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Dat 9/26/12 11: Batch # FB121003010 FB121003018 Received Dat	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 6/Time San 15 Analysis Date/Time 9/26/12 13:00 9/26/12 12:10 e/Time San	9/25/12 15: Analyst LV LV 101e Date/ 9/26/12 7: Analyst LV LV	Lab ID E85457 E85457 Lab ID E85457 E85457 E85457 E85457
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF Lab-10 F1209343-16 Parameter Enterococcus, MPN Fecal Coliform, MF Lab-10 F1209343-17	Sample D	Result 2 Description Result 27 15 Description	Qual U U Qual	1 2 MDL 1 2	POL 1 2 Mate Surface POL 1 2 Mate Surface Surface Surface	Water Units MPN/100ml CFU/100ml X SA Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D mple Type GRAB Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Dat 9/26/12 11: Batch # FB121003010 FB121003018 Received Dat 9/26/12 11:	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 6/Time San 15 Analysis Date/Time 9/26/12 13:00 9/26/12 12:10 6/Time San 15 Analysis Analysis	9/25/12 15: Analyst LV LV iple Date/ 9/26/12 7: LV LV iple Date/ 9/26/12 8:	Lab ID E85457 E85457 Lab ID E85457 E85457 E85457 E85457
Parameter Enterococcus, MPN Fecal Coliform, MF LabelD F1209343-16 Parameter Enterococcus, MPN Fecal Coliform, MF LabelD F1209343-17 Parameter	Sample D	Result 2 Result 27 15 Description Result Result Result	Qual U U Qual	1 2 MDL 2 MDL	POL 1 2 Mate Surface POL 1 2 Mate Surface POL 1 2 Mate Surface POL	Water Units MPN/100ml CFU/100ml ix Sa Water Units MPN/100ml CFU/100ml IX Sa Water Units	Method Enterolert SM9222D mple=Type GRAB Method Enterolert SM9222D mple=Type GRAB	9/25/12 15: Batch # FB120928005 FB120928012 Received Dat 9/26/12 11: Batch # FB121003010 FB121003018 Received Dat 9/26/12 11: Batch #	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 e/Time San 15 Analysis Date/Time 9/26/12 13:00 9/26/12 12:10 e/Time San 15 Analysis Date/Time 15	Analyst LV LV ple Date 9/26/12 7: Analyst LV LV iple Date 9/26/12 8: Analyst	Lab ID E85457 E85457 Time 30 Lab ID E85457 E85457 E85457 Lab ID Lab ID

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

Eab-1D Sample Description Matrix Sample Type Received Date/Hime Sample Date/Fime

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Laboratory Test Report

Client: Test America Tampa

Page: Page 4 of 5

Client Project: MACTEC

Lab Project: F1209343

Report Date: 10/03/12

								Report Date:			
	CONTRACT CONTRACT CO. C.	Description			the state of the s		nple=Lype==	Received Dat			
F1209343-18	9B				Surface	Water	GRAB	9/26/12 11:	15	9/26/12 8::	30
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	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 1	Description			Matr	ix====Sn	mple Lype	■Received Dat	e/Lime San	mle Date	Time =
F1209343-19	10B		<u> Тумінуның терунітіру сұйы</u>	**** *** 45°0 to*************	Surface		GRAB	9/26/12 11:		9/26/12 9:0	
<u>Parameter</u>		Result	Qual	MDL	PQL	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN		186		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	LV	E85457
Fecal Coliform, MF		374	В	2	2	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457
	Sample	Description			Matr	ix Sa	nple Type	Received Dai	e/Hinne San	iple≡Date/	Time
F1209343-20	11B				Surface	Water	GRAB	9/26/12 11:	15	9/26/12 9::	30
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>
Enterococcus, MPN		194		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	LV	E85457
Fecal Coliform, MF		489	В	2	2	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457
•				_	-	GPO/TOOIII	DIVITALLED	110121003010	7/20/12 12.10	2-7 1	
andid -	Sample"	Description			- Mada	ikęcznejski	mple=Pype=	Received Dat			
•	Sample I 11 PUMP					ikęcznejski			v/a k i mez — Sia n		Time -
analda anala	CONTRACTOR OF THE CONTRACTOR O			MDL	- Mada	ikęcznejski	mple Lype	्रिस्ट्रस्थाप्रस्ते । Dani	v/a k i mez — Sia n	inle Date	4 time 45
F1209343-21	CONTRACTOR OF THE CONTRACTOR O	Desemption			Marir Surface	(Sa) Water	mple Eype — GRAB	Received Dat 9/26/12 11:	e/ lime S an 15 <u>Analysis</u>	iple Date/ 9/26/12 9:	4 time 45
F1209343-21 Parameter	CONTRACTOR OF THE CONTRACTOR O	Pescription Result		MDL	Maine Surface PQL	fs <u>S</u> a Water <u>Units</u>	mple-Eype GRAB <u>Method</u>	Received Dat 9/26/12 11: Batch #	e/Time San 15 Analysis Date/Time	iple Date/ 9/26/12 9: <u>Analyst</u>	11me 45 <u>Lab ID</u>
F1209343-21 Parameter Enterococcus, MPN Fecal Coliform, MF Ent ID	11 PUMP	Description Result	<u>Qual</u>	<u>MDL</u> 1	Mater Surface POL 1 100 Mater	Water Units MPN/100ml CFU/100ml	mple Pype GRAB Method Enterolert SM9222D	Received Dat 9/26/12 11: <u>Batch #</u> FB121003010 FB121003018 Received Dat	### Company of the co	iple Date/ 9/26/12 9: Analyst LV LV	Lab ID E85457 E85457 Time
F1209343-21 Parameter Enterococcus, MPN Fecal Coliform, MF	11 PUMP	Result 127 4700	<u>Qual</u>	<u>MDL</u> 1	Mater Surface POL 1	Water Units MPN/100ml CFU/100ml	mple Type GRAB Method Enterolert SM9222D	Received Dat 9/26/12 11: Batch # FB121003010 FB121003018	### Company of the co	nple Date: 9/26/12 9: Analyst LV LV	Lab ID E85457 E85457 Time
F1209343-21 Parameter Enterococcus, MPN Fecal Coliform, MF Ent ID	11 PUMP	Result 127 4700	<u>Qual</u>	<u>MDL</u> 1	Mater Surface POL 1 100 Mater	Water Units MPN/100ml CFU/100ml	mple Pype GRAB Method Enterolert SM9222D	Received Dat 9/26/12 11: <u>Batch #</u> FB121003010 FB121003018 Received Dat	### Company of the co	iple Date/ 9/26/12 9: Analyst LV LV	Lab ID E85457 E85457 Time 45
F1209343-21 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1209343-22	11 PUMP	Result 127 4700 Description	Qual	MDL 1 100	Matr Surface POL 1 100 Matr Surface	Meter Water Units MPN/100ml CFU/100ml Ix Sa	Method Enterolert SM9222D mple=Type GRAB	Received Dat 9/26/12 11: Batch # FB121003010 FB121003018 Received Dat 9/26/12 15:	### Analysis Analysis Date/Time 9/26/12 13:00 9/26/12 12:10 C/Fime San 30 Analysis	### Date ####################################	Lab ID E85457 E85457 Time 45
F1209343-21 Parameter Enterococcus, MPN Fecal Coliform, MF Ent D F1209343-22 Parameter	11 PUMP	Result 127 4700 Description Result	Qual	MDL 1 100 MDL	Mater Surface POL 1 100 Mater Surface POL	Water Units MPN/100ml CPU/100ml ix Sa) Water Units	Method Enterolert SM9222D mple Type GRAB Method	Received Date 9/26/12 11: Batch # FB121003010 FB121003018 Received Date 9/26/12 15: Batch #	### Analysis	Analyst Date/ 9/26/12 9: Analyst LV LV 1ple Date/ 9/26/12 10: Analyst	Lab ID E85457 E85457 Time 45 Lab ID
F1209343-21 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1209343-22 Parameter Enterococcus, MPN	II PUMP Sample I CP	Result 127 4700 Pescription Result 2420	<u>Qual</u>	MDL 1 100 MDL 1 1101	Matr Surface POL 1 100 Matr Surface POL 1	MPN/100ml CFU/100ml LX Sa Water Units MPN/100ml CFU/100ml CFU/100ml	Method Enterolert SM9222D mple Type GRAB Method Enterolert	Received Dat 9/26/12 11: <u>Batch #</u> FB121003010 FB121003018 Received Dat 9/26/12 15: <u>Batch #</u> FB121003011	Analysis Date/Time 9/26/12 13:00 9/26/12 12:10 6/Fime San 30 Analysis Date/Time 9/26/12 15:40 9/26/12 15:40 9/26/12 15:40	Analyst LV LV 1ple Date/ 9/26/12 10: Analyst LV LV LV LV	Eab ID E85457 E85457 Lab ID E85457 Lab ID E85457 E85457
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Parameter Enterococcus, MPN Fecal Coliform, MF Enb D F1209343-22 Parameter Enterococcus, MPN Fecal Coliform, MF Lab D F1209343-22 Parameter Enterococcus, MPN Fecal Coliform, MF	Sample I CP	Result 127 4790 Description Result 2420 2300 Description	<u>Qual</u>	MDL 1 100 MDL 1 100	Matr Surface POL 1 100 Matr Surface POL 1 100 Matr Surface	Water Units MPN/100ml CFU/100ml ix Sa Water Units MPN/100ml CFU/100ml CFU/100ml	Method Enterolert SM9222D mple Type GRAB Method Enterolert SM9222D mple Type GRAB	Received Date 9/26/12 11: Batch # FB121003010 FB121003018 Received Date 9/26/12 15: Batch # FB121003011 FB121003020 Received Date 9/26/12 15:	Analysis Date/Time 9/26/12 13:00 9/26/12 12:10 6/Fime San 30 Analysis Date/Time 9/26/12 15:40 9/26/12 15:40 9/26/12 15:40 Analysis Analysis	### Date/ ### 9/26/12 9: ### Analyst LV ### Date/ ### 9/26/12 10: #### LV LV #### LV LV ############	Eme 45 Lab ID E85457 E85457 Time 45 Lab ID E85457 E85457 E85457 Time 00

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

Eabild Sample Description Matrix Sample Expe Received Date/Fine Sample Date/Fine

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Laboratory Test Report

Client:

Fecal Coliform, MF

890

Test America Tampa

Client Project: MACTEC

Page: Page 5 of 5

Lab Project: F1209343

Report Date: 10/03/12

Lab ID	Sample D	escription			- Matr	x Sui	mple Type	Received Date	/Time San	iple Date/	Time
F1209343-24	14 PUMP				Surface	The state of the same of the s	GRAB	9/26/12 15:		9/26/12 11:	
<u>Parameter</u>		Result	Qual	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>
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
Eabard	<u>Sample</u> D	eseription			Matr		mple-Lype	Recoved Dair			
F1209343-25	GD 3				Surface \	Water	GRAB	9/26/12 15:		9/26/12 11:	45
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
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
eleabeld	=Sample=D	escription				and the second second second second		Received Date		ALCOHOLD STATE OF THE PARTY OF	100000000000000000000000000000000000000
F1209343-26	REVSE 2				Surface \	Water	GRAB	9/26/12 15:		9/26/12 12:	30
Parameter		Result	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
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
Ealt210	Sample≇D	eseription			Mate	Martin Committee of the American Committee of the Committ	mple:Pype	Received Dat 9/26/12 15:	The second secon		
F1209343-27	24B				Surface '	water	GRAB	9/76/17 15:	30	9/26/12 12:	43
							OI WAS	7120112 to.			
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	Analysis Date/Time	Analyst	<u>Lab ID</u>
Parameter Enterococcus, MPN		Result 42	<u>Qual</u>	<u>MDL</u>	POL I				<u>Analysis</u>	Analyst	<u>Lab ID</u> E85457
			<u>Qual</u>			<u>Units</u>	Method	Batch #	Analysis Date/Time	-	
Enterococcus, MPN Fecal Coliform, MF	≕Sample≅Đ	42 3200 lese aprior		1	1 100 M ate	Units MPN/100ml CFU/100ml	Method Enterolert SM9222D	Batch # FB121003011 FB121003020 Received Date	Analysis Date/Time 9/26/12 15:40 9/26/12 15:40 e/Time San	LV LV	E85457 E85457
Enterococcus, MPN Fecal Coliform, MF		42 3200 lese aprior		1	1	Units MPN/100ml CFU/100ml	Method Enterolert SM9222D	Batch # FB121003011 FB121003020	Analysis Date/Time 9/26/12 15:40 9/26/12 15:40 e/Time San 30	LV	E85457 E85457
Enterococcus, MPN Fecal Coliform, MF	≕Sample≅Đ	42 3200 lese aprior		1	1 100 M ate	Units MPN/100ml CFU/100ml	Method Enterolert SM9222D	Batch # FB121003011 FB121003020 Received Date	Analysis Date/Time 9/26/12 15:40 9/26/12 15:40 e/Time San	LV LV	E85457 E85457 Finte
Enterococcus, MPN Fecal Coliform, MF Lab ID F1209343-28	≕Sample≅Đ	42 3200 Description		1 100	I 100 Matr Surface	Units MPN/100ml CFU/100ml Salwater	Method Enterolert SM9222D mple=Type GRAB	Batch # FB121003011 FB121003020 Received Date 9/26/12 15:	Analysis Date/Time 9/26/12 15:40 9/26/12 15:40 e/Time San 30 Analysis	LV LV iple=Date / 9/26/12 13:	E85457 E85457 Finte
Enterococcus, MPN Fecal Coliform, MF Lab ID F1209343-28 Parameter	≕Sample≅Đ	42 3200 Coscription Result		1 100 MDL	1 100 Matr Surface	Units MPN/100ml CFU/100ml Salwater Units	Method Enterolert SM9222D mple Pype GRAB Method	Batch # FB121003011 FB121003020 Received Date 9/26/12 15: Batch #	Analysis Date/Time 9/26/12 15:40 9/26/12 15:40 e/Time San 30 Analysis Date/Time	LV LV iple Date / 9/26/12 13; <u>Analyst</u>	E85457 E85457 Time 00 Lab ID
Enterococcus, MPN Fecal Coliform, MF Lab ID F1209343-28 Parameter Enterococcus, MPN	≕Sample≅Đ	42 3200 Pescription Result 107 508	Qual B	1 100 MDL 1	1 100 Matr Surface PQL 1	Units MPN/100ml CFU/100ml Sal Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D Imple Type GRAB Method Enterolert	Batch # FB121003011 FB121003020 Received Date 9/26/12 15: Batch # FB121003011	Analysis Date/Time 9/26/12 15:40 9/26/12 15:40 e/Time San 30 Analysis Date/Time 9/26/12 15:40 9/26/12 15:40 9/26/12 15:40	LV LV 1ple Date 9/26/12 13: Analyst LV LV	E85457 E85457 Cime 00 Lab ID E85457 E85457 E85457
Enterococcus, MPN Fecal Coliform, MF Lab-ID F1209343-28 Parameter Enterococcus, MPN Fecal Coliform, MF	Sample D 4TH AVE 3	42 3200 Pescription Result 107 508	Qual B	1 100 MDL 1	1 100 Matr Surface PQL 1 2	Units MPN/100ml CFU/100ml Sal Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D mple Type GRAB Method Enterolert SM9222D	Batch # FB121003011 FB121003020 Received Date 9/26/12 15: Batch # FB121003011 FB121003020 Received Date Pate Pate Pate Pate Pate Pate Pate P	Analysis Date/Time 9/26/12 15:40 9/26/12 15:40 e/Time San 30 Analysis Date/Time 9/26/12 15:40 9/26/12 15:40 9/26/12 15:40	LV LV 1ple Date 9/26/12 13; Analyst LV LV 1ple Date/	E85457 E85457 Time 00 Lab ID E85457 E85457 E85457

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

CFU/100ml

SM9222D

FB121003024

LV/SL E85457

9/27/12 12:27

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5.6 (·	CLIENT INITIAL:	COMMENTS:		## ° °	ISB	160	153	58	33	とい	B	1A3	Matrix SAMPLE DESCRIPTION	Sampler Signature	Ī	Phone Fax	Compa	Address	client 1 est America (for AMEC		Colooratories INC	Sanders
Yes No	SAMPLES ON ICE	1T:	OKAY TO RUN AS IS												(AMEC					(53)			
				Longito/	RELINQUISHED BY / AFFILIATIO	V 1200 V	11145	1130	ins	(100)	/030	SH6	9/25/ ₁₀ , 930 G	DATE TIME TYPE #	V .		H ₂ SO ₄ = S, I	Preservative: HCl = H, HNO ₃ = N, Na ₂ S ₂ O ₃ =	P.O. #	Bill To:	Report To: Test	Vance	
				AMEC	AFFILIATION								ę	ICE		PRESERVATIVES	H ₂ SO ₄ = S, NaOH = SH, NH ₄ Ci = NH	VO₃ = N, Na₂S₂O₃			Test America	Vancy Robertson	
				9/12/305	DATE TIME	~ \ \	< <	\ \ \	V V	V V	VV	V	<u> </u>	KINKO	REQUESTA /	ANALYSES /	OI = NH	= ST,			-	(C)	Ć
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CHAIN-OF-CUSTODY RECORD

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CHAIN-OF-CUSTODY RECORD

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11/9/2012

Customer Type: Project Location: Project Name: Naples - Hormete

REQUESTED DUE DATE:

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SAMPLE DESCRIPTION

DATE | TIME

TYPE

1300

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Sample

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COMMENTS

OKAY TO RUN AS IS...

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Sampler Signature

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Bill To:

Report To: _

Preservative: HCl = H, HNOs = N, NasS2Os = ST,

H₂SO₄ = S, NaOH = SH, NH₄Cl = NH

Environmental Testing Services

_aboratories inc

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1050 Endeavor Ct., Nokomis, FL 34275-3623 • (941)488-8103 • FAX 484-6774	•
•	
10090 Bavaria Rd., Fort Myers, FL 33913 • (239	

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SAMPLES QN)ICE (Yes) No

CHAIN-OF-CUSTODY RECORD

PROJECT

F1209343

Sanders

Environmental Testing Services aboratories INC.

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H ₂ SO ₄ = S, NaOH = SH, NH ₄ Cl = NH	Preservative: HCl = H, HNO ₃ = N, Na ₂ S ₂ O ₃ = ST,	P.O. #	Bill To: text Annerica	Report To: Nancy Kobert Sun		CHAIN-OF-CUSTODY RECORD
REQUESTED DUE DATE: 10/8/13	***	Customer Type:	Project Location:	Project Name:	Page of 9/20	PROJECT TUNASYS

Phone

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	,				U. Q	-						52	Matrix	Sar	Sar
					Bottle Lot #	 		20					, X	npler	npled
			COMMENTS:			4x Ave 3	24B	Res 2	GD3	ナサーヤング	/48	CA	SAMPLE DESCRIPTION	Sampler Signature	Sampled By (PRINT)
Yes No	SAMPLES ON ICE	CLIENT INITIAL:	OKAY TO RUN AS IS												
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Sanders Environmental Testing Services -aboratories INC.

Bill To: Test America-Report To: _

Preservative: HCI = H, HNO₃ = N, Na₂S₂O₃ = ST, H₂SO₄ = S, NaOH = SH, NH₄CI = NH

P.O. #

Phone .

Client Address

CHAIN-OF-CUSTODY RECORD

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S.S. (Fes) No	SAMPLES	CLIENT INITIAL:	COMMENTS: OKAY TO RUN		Bottle Lot					26B	SAMPLE DESCRIPTION	Sampler Signature	Sampled By (PRINT) Scar Arda
				Son Adr	RELINQUISHED BY / AFFILIATION					8/27 730 See	DATE TIME TYPE	Sample	
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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

Jz Jelle

Authorized for release by: 11/8/2012 8:21:24 AM

Jeremy Sadler
Project Manager
jeremyr.sadler@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.

Page 50 of 67 11/9/2012

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Case Narrative	
Detection Summary	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	9
Lab Chronicle	10
Certification Summary	11
Method Summary	12
Sample Summary	1.3

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Definitions/Glossary

Client: TestAmerica Tampa Project/Site: 660-50294 TestAmerica Job ID: G2J010411

Qualifiers

HPL	_C
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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.

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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 I	O 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

Lab Sample ID: G2J010411001

Matrix: Water

Date Collected: 09/26/12 09:45 Date Received: 09/28/12 09:00

Client Sample ID: 11 PUMP (660-50294-6)

Method: 1694 - Pharmaceuticals, H	IPLC/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				Prepared	Analyzed	Dil Fac
13C3-Caffeine	45		25 - 150				10/02/12 14:12	10/09/12 07:59	20

Client Sample ID: CP (660-50294-7)

Lab Sample ID: G2J010411002

Matrix: Water

Matrix: Water

Matrix: Water

Date Collected: 09/26/12 10:45 Date Received: 09/28/12 09:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caffeine	ND ND		300	260	ng/L		10/02/12 14:12	10/09/12 08:30	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3-Caffeine	72	-	25 - 150				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 - Pharmac	euticals, 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				Prepared	Analyzed	Dil Fac
13C3-Caffeine	54		25 - 150				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

Date Received: 09/28/12 09:00

Method: 1694 - Pharmace	euticals, 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				Prepared	Analyzed	Dil Fac
13C3-Caffeine	82		25 - 150				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 Date Received: 09/28/12 09:00

Method: 1694 - Pharmaceuticals, HPLC/MS/MS (1694) Analyte Result Qualifier RL MDL Unit 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 Prepared Analyzed Dil Fac 13C3-Caffeine 25 - 150 10/02/12 14:12 10/09/12 10:02 66 20

Surrogate Summary

Client: TestAmerica Tampa Project/Site: 660-50294 TestAmerica Job ID: G2J010411

America Job ID. G2J010411

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

Matrix: Water Prep Type: Total

Lab Campla ID		3C3-Caffein	
Lab Cample ID			
Lab Sample ID	Client Sample ID	(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	

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QC Sample Results

Client: TestAmerica Tampa Project/Site: 660-50294

TestAmerica Job ID: G2J010411

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

Lab Sample ID: G2J020000093B Client Sample ID: Method Blank **Matrix: Water Prep Type: Total**

Prep Batch: 2276093_P Analysis Batch: 2276093 MB MB

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 15 10/02/12 14:12 10/09/12 05:57 Caffeine 13 ng/L ND MB MB Dil Fac %Recovery Qualifier Limits Surrogate Prepared Analyzed 13C3-Caffeine 25 - 150 10/02/12 14:12 37 10/09/12 05:57

Lab Sample ID: G2J020000093C **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total** Analysis Batch: 2276093 Prep Batch: 2276093 P LCS LCS Spike %Rec.

Result Qualifier Analyte Added Unit D %Rec Limits Caffeine 100 101 101 60 - 140 ng/L

LCS LCS %Recovery Surrogate Qualifier Limits 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	

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Lab Chronicle

Client: TestAmerica Tampa Project/Site: 660-50294

TestAmerica Job ID: G2J010411

Lab Sample ID: G2J010411001

Client Sample ID: 11 PUMP (660-50294-6)

Date Collected: 09/26/12 09:45 Date Received: 09/28/12 09:00

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	EXTRACTION, SOLID			2276093_P	10/02/12 14:12	JR	TAL WSC
Total	Analysis	PHASE 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

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 PHASE			2276093_P	10/02/12 14:12	JR	TAL WSC
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

Date Received: 09/28/12 09:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	EXTRACTION, SOLID PHASE			2276093_P	10/02/12 14:12	JR	TAL WSC
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

Date Received: 09/28/12 09:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total	Prep	EXTRACTION, SOLID PHASE			2276093_P	10/02/12 14:12	JR	TAL WSC
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

Date Received: 09/28/12 09:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	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 10:02	NS	TAL WSC

Laboratory References:

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

TestAmerica West Sacramento

Page 10 of 13 Page 59 of 67













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

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Method Summary

Client: TestAmerica Tampa Project/Site: 660-50294 TestAmerica Job ID: G2J010411

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 Method
 Method Description
 Protocol
 Laboratory

 1694
 Pharmaceuticals, HPLC/MS/MS (1694)
 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

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Phone (813) 885-7427 Fax (813) 885-7049					STATE
	Sampler Town Bates	Robertson, Nancy		Carrier Tracking No(s): CC	COC No: 660-43302-14207.3
Client Contact Mr. Tom Bates	848-148	S E-Mail:	E-Mail: nancy.robertson@testamericainc.com	Pa	Page: Page 3 of 4
ment & Infrastructure, Inc.			\nalysis	Requested	Job #:
Address: 222 Industrial Blvd., Suite 155	Due Date Requested: Std.			Pr	8
City: Naples	TAT Requested (days):		form	J O @	B - NaOH N - None C - Zn Acetate O - AsNaO2
State, Zip: FL, 34104				חתוד ל	
Phone: 239-564-8483(Tel)	PO#: C012200389	6)	nd Fec	ı o	Δ.
Email: tdbates@mactec.com	WO# 6063-12-0207		ilds cus a		ē
Project Name: City of Naples Stormwater	Project #: 66003057		led Sc		L - EDA Z - other (specify)
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CP	1045	Water	1001		BACTIS WERE
EB	1//00	Water	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		hand delivered to
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GD 3	1145	Water	V V V V		Ft. Myery
REUSE 2	V 1230 V	Water V	10000		
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poice	Poison B		Sample Disposal (A fee may be a: Return To Client	assessed if samples are retained longer Disposal By Lab Archive For	longer than 1 month) 9 For Months
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Custody Seals Intact: Custody Seal No.: Δ Yes: Δ No			Cooler Temperature(s) °C and Other Remarks:	ars 576, 2.6, 2	S. (4.63

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

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Thone (813) 885-7427 Fax (813) 885-7049						İ			l				ĺ	ĺ	ĺ	ĺ	l	l	l	1				l		۱	
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Client Contact Mr. Tom Bates	Phone:			E-Mail: nancy.robertson@testamerical	/.гоbе	rtson	@tes	tame	nicai.	nc.com	ž								ידיד	Page: Page	Page: Page 4 of 4	4					
Company: AMEC Environment & Infrastructure, Inc.		•							Αn	alysis	sis	Requested	les:	ëd						# dol							
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Possible Hazard Identification Non-Hazard Flammable Skin Iritant Pois	Poison B Unknown		Radiological		လွ	Sample Disposal (A Return To Clien	ple Disposal (A Return To Clien	osa To	I (A Clien	fee i	⊒Ven		ispo	sed i	assessed if san Disposal By Lab	nple		LI S	rchh	tained long Archive For	וּקer אין	than	1 1 11	fee may be assessed if samples are retained longer than 1 month) Disposal By Lab	nth) Months		
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Custody Seals Intact: Custody Seal No.:						8	Cooler Temperature(s)	perat	(s)	် ရ	© and Other Remarks	er Re	natks														

Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-50294-1

Login Number: 50294 List Source: TestAmerica Tampa

List Number: 1

Creator: McNulty, Carol

ordator. mortality, out or		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-50294-1

List Source: TestAmerica Pittsburgh
List Number: 1
List Creation: 09/28/12 12:21 PM

Creator: Watson, Debbie

Answer	Comment
N/A	
True	
N/A	
N/A	
	N/A True

N/A

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Residual Chlorine Checked.

Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-50294-1

List Source: TestAmerica Tallahassee
List Number: 1
List Creation: 09/29/12 02:44 PM

Creator: Delp. Eric

Creator: Delp, Eric		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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	

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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

Review your project results through Total Access

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

Duplicate error ratio (normalized absolute difference)

Reporting Limit or Requested Limit (Radiochemistry only)

Decision level concentration

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

DER

DLC

RL

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
\tilde	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

TestAmerica Tampa 11/8/2012

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.

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.

Detection Summary

Client: AMEC Environment & Infrastructure, Inc. Project/Site: City of Naples Stormwater 2012

Client Sample ID: 26B

TestAmerica Job ID: 660-50305-1

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	S) - Total Recove	rable							
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

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Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 180-50442/1-A Client Sample ID: Method Blank **Matrix: Water Prep Type: Total Recoverable Analysis Batch: 51268**

Prep Batch: 50442

мв мв

Analyte	Result Qua	lifier PQL	MDL Ur	nit D	Prepared	Analyzed	Dil Fac
Copper	0.557 I	2.0	0.14 uq	/L	10/02/12 09:27	10/09/12 00:52	1

Lab Sample ID: LCS 180-50442/2-A **Client Sample ID: Lab Control Sample Matrix: Water Prep Type: Total Recoverable Analysis Batch: 51268** Prep Batch: 50442

LCS LCS Spike Added Result Qualifier Unit %Rec Limits 250 241 ug/L 96 85 - 115

Lab Sample ID: LCSD 180-50442/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Water Analysis Batch: 51268

Analyte

Copper

Prep Type: Total Recoverable Prep Batch: 50442

Spike LCSD LCSD RPD %Rec. Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit

250 243 Copper ug/L 85 - 115

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 660-130102/10-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 130150 MB MB

Prep Batch: 130102

Analyte Result Qualifier PQL MDL Unit Prepared Analyzed Dil Fac 0.050 U 0.20 10/09/12 06:00 10/09/12 18:24 Nitrogen, Kjeldahl 0.050 ma/L

Lab Sample ID: LCS 660-130102/11-A Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 130150 **Prep Batch: 130102** Spike LCS LCS %Rec.

Added Result Qualifier Limits Analyte Unit D %Rec 3.00 90 - 110 Nitrogen, Kjeldahl 2.90 mg/L 97

Lab Sample ID: 660-50403-A-1-B MS Client Sample ID: Matrix Spike **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 130150 **Prep Batch: 130102** Sample Sample Spike MS MS %Rec.

Unit Analyte Result Qualifier Added Result Qualifier %Rec Limits Nitrogen, Kjeldahl 0.23 3.00 3.32 mg/L 103 90 - 110

Lab Sample ID: 660-50403-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Water Prep Type: Total/NA Analysis Batch: 130150 Prep Batch: 130102 Sample Sample Spike MSD MSD %Rec. RPD

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Nitrogen, Kjeldahl 0.23 3.00 3.19 mg/L 99 90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 660-130017/3

Matrix: Water

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

Analysis Batch: 130017

 Analyte
 Result Nitrite as N
 Qualifier Unit Notice (Notice of the Notice
Lab Sample ID: LCS 660-130017/4

Matrix: Water

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

Analysis Batch: 130017

LCS LCS Spike %Rec. Added Analyte Result Qualifier Unit %Rec Limits Nitrate Nitrite as N 1.00 1.05 mg/L 105 90 - 110

Lab Sample ID: 660-50294-C-13 MS

Client Sample ID: Matrix Spike
Matrix: Water

Prep Type: Total/NA

Analysis Batch: 130017

Spike MS MS %Rec. Sample Sample Result Qualifier Added Result Qualifier Unit D %Rec Limits Nitrate Nitrite as N 0.10 U 1.00 0.969 mg/L 90 - 110

Lab Sample ID: 660-50294-C-13 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water Prep Type: Total/NA

Analysis Batch: 130017

MSD MSD Sample Sample Spike %Rec. RPD Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Limit 0.10 U 1.00 30 Nitrate Nitrite as N 0.981 mg/L 98 90 - 110

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 640-96242/3-A Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 96272

 Analyte
 Result
 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

Client Sample ID: Lab Control Sample
Matrix: Water

Prep Type: Total/NA

Analysis Batch: 96272

Spike LCS LCS %Rec.

MR MR

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

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Phosphorus 0.100 0.0929 mg/L 93 90 - 110

Prep Type: Total/NA

Prep Batch: 96242

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 Client Sample ID: Matrix Spike **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 96272** Prep Batch: 96242 Sample Sample Spike MS MS

Result Qualifier Added Analyte Result Qualifier %Rec Limits Unit D 0.100 96 90 - 110 Phosphorus 0.018 0.114 mg/L

Lab Sample ID: 180-14858-F-3-B MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Water** Prep Type: Total/NA Prep Batch: 96242

Analysis Batch: 96272

MSD MSD Sample Sample Spike Result Qualifier Added Result Analyte Qualifier Unit D %Rec Limits RPD Limit Phosphorus 0.018 0.100 0.114 mg/L 96 90 - 110 30

Lab Sample ID: 180-14858-G-3-G DU **Client Sample ID: Duplicate Matrix: Water** Prep Type: Total/NA

Analysis Batch: 96272 Prep Batch: 96242 DU DU RPD Sample Sample

Analyte Result Qualifier Result Qualifier Unit **RPD** Limit 0.018 0.0175 30 Phosphorus mg/L

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

Lab Sample ID: MB 660-129857/1 Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA

Analysis Batch: 129857

MB MB Result Qualifier **PQL** MDL Unit D Analyzed Dil Fac Prepared 1.0 Ū 1.0 10/03/12 07:23 Total Suspended Solids 1.0 ma/L

Lab Sample ID: LCS 660-129857/2 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 129857

Spike LCS LCS %Rec. Added Result Qualifier Unit Limits Analyte D %Rec Total Suspended Solids 100 94.4 mg/L 80 - 120

Lab Sample ID: 660-50294-D-13 DU Client Sample ID: Duplicate Prep Type: Total/NA

Matrix: Water

Analysis Batch: 129857

DU DU RPD Sample Sample Result Qualifier Result Qualifier RPD Analyte Unit D Limit **Total Suspended Solids** 2.0 2.40 mg/L 18 20

TestAmerica Job ID: 660-50305-1

Client: AMEC Environment & Infrastructure, Inc. Project/Site: City of Naples Stormwater 2012

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 San	nple ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-503	05-1	26B	Total Recoverable	Water	200.8	50442
LCS 180)-50442/2-A	Lab Control Sample	Total Recoverable	Water	200.8	50442
LCSD 18	30-50442/3-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 Bat
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	

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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	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

Lab Sample ID: 660-50305-1

Matrix: Water

Date Collected: 09/27/12 07:30 Date Received: 09/27/12 15:30

Client Sample ID: 26B

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	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	ТО	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

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TestAmerica Job ID: 660-50305-1

Client: AMEC Environment & Infrastructure, Inc. Project/Site: City of Naples Stormwater 2012

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

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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

Lab Project #: F1209343

Page 1 of _____

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 813-885-7427

Phone:

ione: 613-663-742

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

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11/8/2012

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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 F1209343-01	<u>Sample</u> 1A3	Description			Matr Surface		mple Eype GRAB	Received Dat 9/25/12 13:		Sample Dato/Fime 9/25/12 9:30		
<u>Parameter</u>	,	Result	Qual	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> Date/Time	<u>Analyst</u>	<u>Lab ID</u>	
Enterococcus, MPN		152		4	4	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457	
Fecal Coliform, MF		673	В	9	9	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457	
Smith D	and the second s	Description			Matr Surface	Market of the control	mole=Evpe GRAB	Received Dat 9/25/12 13:	The state of the s	iple Date/ 9/25/12 9:4		
F1209343-02	1B				Surrace	w alei	UKAB	9/23/12 13.		9123112 9:	4 5	
<u>Parameter</u>		Result	<u>Qual</u>	MDL	POL	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>	
Enterococcus, MPN		100		100	100	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457	
Fecal Coliform, MF		231	В	3	3	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457	
F1209343-03	Sample 2B	Description			Marte Surface		mple Lype GRAB	Received Dat 9/25/12 13:		iple Date/ 9/25/12 10:	Miles Land Market Annual Annual Property Comments	
<u>Parameter</u>		Result	Qual	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> Date/Time	Analyst	<u>Lab ID</u>	
Enterococcus, MPN		961		I	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457	
Fecal Coliform, MF		1840	В	9	9	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457	
Lab ID		Description	ļ.		Matr Surface	The second secon	mple Type GRAB	Received Dat 9/25/12 13		nple Date 9/25/12 11:	The second secon	
F1209343-04	3B				Burrace	water	OKAB	9123112 13.		9123112 11.	00	
<u>Parameter</u>		Result	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>	
Enterococcus, MPN		47		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457	
Feeal Coliform, MF		259	В	2	2	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457	
<u>Lab ID</u>	Sample 5B	Description			Matr Surface	The state of the s	mple Type GRAB	Received Dat 9/25/12 13	The state of the s	nple Date 9/25/12 11:		
F1209343-05	JB				Burtaco	,, nco	GIVID), 25 /12 13	Analysis			
<u>Parameter</u>		Result	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	Method	Batch #	Date/Time	<u>Analyst</u>	<u>Lab ID</u>	
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	
<u>Lab 10</u> F1209343-06	Sample 15B	រិស្តិតមន្ត្រាក់ ស្ត្រាក់	i i		Matr Surface		mple Type GRAB	Received Dat 9/25/12 13	e/Elme S ar :05	n ple Date 9/25/12 11		
<u>Parameter</u>		Result	<u>Qual</u>	<u>MDL</u>	POL	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>	

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

MPN/100ml

Enterolert

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Enterococcus, MPN

FB120928004

9/25/12 15:00

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Laboratory Test Report

Client: Test America Tampa

Page: Page 2 of 5

Client Project: MACTEC

= ab ID Sample Description

Lab Project: F1209343

Report Date: 10/03/12

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Labid	Constitution of the section of the section of	escription			Matr		CONTRACTOR OF THE PARTY OF THE	Received Dat					
F1209343-06	15B				Surface '	Water	GRAB	9/25/12 13:	05	9/25/12 11:	30		
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>		
Fecal Coliform, MF		230		10	10	CFU/100ml	SM9222D	FB120928011	9/25/12 14:40	LV	E85457		
自即间的	Sample D	escription			– Mati	i <u>x</u> Sa	mple Type	Received Dat	v/HimeSan	iple#Date/	Time		
F1209343-07	16B		Service and a service	***************************************	Surface	Water	GRAB	9/25/12 13:	05	9/25/12 11:	45		
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>		
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		
	_Sample₃t	escription			Matr	ix Sa	mple=Fype	Received Dail		iple:Date/	Time		
F1209343-08	19B				Surface '	Water	GRAB	9/25/12 13:	05	9/25/12 12:	00		
<u>Parameter</u>		Result	<u>Qual</u>	<u>MDL</u>	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>		
Enterococcus, MPN		27		1	1	MPN/100ml	Enterolert	FB120928004	9/25/12 15:00	LV	E85457		
Fecal Coliform, MF		410		10	10	CFU/100m1	SM9222D	FB120928011	9/25/12 14:40	LV	E85457		
EMBID -		tese el plion			Matr		mple Lype	Received Dat	CAN THE STATE OF T				
F1209343-09	Sample 1 6B	Teseriotion			<u>Matr</u> Surface		mple Eype - GRAB	Recoved Dat 9/25/12 15:	50	iple Date/ 9/25/12 12:			
		escription <u>Result</u>	<u>Qual</u>	MDL					CAN THE STATE OF T		45		
F1209343-09				<u>MDL</u>	Surface	Water	GRAB	9/25/12 15:	50 Analysis	9/25/12 12:	45		
F1209343-09 Parameter		Result			Surface PQL	Water <u>Units</u>	GRAB <u>Method</u>	9/25/12 15: Batch #	50 <u>Analysis</u> <u>Date/Time</u>	9/25/12 12: Analyst	45 <u>Lab ID</u>		
F1209343-09 Parameter Enterococcus, MPN	6B	Result	Qual	1	Surface PQL	Water <u>Units</u> MPN/100ml CFU/100ml	GRAB Method Enterolert	9/25/12 15: Batch # FB120928005 FB120928012	50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 c/Time San	9/25/12 12; Analyst LV LV	45 Lab ID E85457 E85457 /Time		
F1209343-09 Parameter Enterococcus, MPN Fecal Coliform, MF	6B Sample∃	Result 101 5200	Qual	1	Surface PQL 1 100 Mate	Water <u>Units</u> MPN/100ml CFU/100ml	GRAB Method Enterolert SM9222D mple Type	9/25/12 15: <u>Batch #</u> FB120928005 FB120928012 Received Date	50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 c/Time San	9/25/12 12: Analyst LV LV iple Date	Lab ID E85457 E85457 Fime 00		
F1209343-09 Parameter Enterococcus, MPN Fecal Coliform, MF Eab ID F1209343-10	6B Sample∃	Result 101 5200 Description	Qual	1 100	PQL 1 100 Matr Surface	Water Units MPN/100ml CFU/100ml X Water	Method Enterolert SM9222D mple Type GRAB	9/25/12 15: Batch # FB120928005 FB120928012 Received Date 9/25/12 15:	Analysis <u>Analysis</u> <u>Date/Time</u> 9/25/12 16:44 9/25/12 16:11 e/Fime San 50 <u>Analysis</u>	9/25/12 12: Analyst LV LV iple Date 9/25/12 13:	Lab ID E85457 E85457 Fime 00		
F1209343-09 Parameter Enterococcus, MPN Fecal Coliform, MF Lab-10 F1209343-10 Parameter	6B Sample∃	Result 101 5200 Description Result	Qual	1 100 MDL	POL 1 100 Matr Surface	Water Units MPN/100ml CFU/100ml IX Water Units	Method Enterolert SM9222D mple Type GRAB Method	9/25/12 15: Batch # FB120928005 FB120928012 Received Date 9/25/12 15: Batch #	Analysis	9/25/12 12: Analyst LV LV aple Date 9/25/12 13: Analyst	Lab ID E85457 E85457 /Time 00 Lab ID		
F1209343-09 Parameter Enterococcus, MPN Fecal Coliform, MF Eab-ID F1209343-10 Parameter Enterococcus, MPN Fecal Coliform, MF	Sample L 20B	Result 101 5200 Description Result 2420	<u>Qual</u> <u>Qual</u>	1 100 MDL 1	POL 1 100 Matr Surface POL 1 100 Matr Matr Matr Matr	Water Units MPN/100ml CFU/100ml Sawater Units MPN/100ml CFU/100ml	Method Enterolert SM9222D mple Type GRAB Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Date 9/25/12 15: Batch # FB120928005 FB120928012 Received Date 9/25/12 15:	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 E/Time San 50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:44 9/25/12 16:11	9/25/12 12: Analyst LV LV Iple Date LV LV LV LV LV LV LV	Lab ID E85457 E85457 Lab ID E85457 Lab ID E85457 E85457		
F1209343-09 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1209343-10 Parameter Enterococcus, MPN Fecal Coliform, MF	Sample L 20B	Result 101 5200 Description Result 2420 4000	<u>Qual</u> <u>Qual</u>	1 100 MDL 1	POL 1 100 Matr Surface POL 1 100	Water Units MPN/100ml CFU/100ml Sawater Units MPN/100ml CFU/100ml	Method Enterolert SM9222D mple Type GRAB Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Date 9/25/12 15: Batch # FB120928005 FB120928012	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 E/Time San 50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:44 9/25/12 16:11	9/25/12 12: Analyst LV LV IPIC Date 9/25/12 13: Analyst LV LV	Lab ID E85457 E85457 Lab ID E85457 Lab ID E85457 E85457		
F1209343-09 Parameter Enterococcus, MPN Fecal Coliform, MF Eab-ID F1209343-10 Parameter Enterococcus, MPN Fecal Coliform, MF	Sample L 20B	Result 101 5200 Description Result 2420 4000	<u>Qual</u> <u>Qual</u>	1 100 MDL 1	POL 1 100 Matr Surface POL 1 100 Matr Matr Matr Matr	Water Units MPN/100ml CFU/100ml Sawater Units MPN/100ml CFU/100ml	Method Enterolert SM9222D mple Type GRAB Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Date 9/25/12 15: Batch # FB120928005 FB120928012 Received Date 9/25/12 15:	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 E/Time San 50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:44 9/25/12 16:11	9/25/12 12: Analyst LV LV 19/25/12 13: Analyst LV LV LV 10le Date 9/25/12 13:	Lab ID E85457 E85457 Lab ID E85457 Lab ID E85457 E85457		
F1209343-09 Parameter Enterococcus, MPN Fecal Coliform, MF Lab-ID F1209343-10 Parameter Enterococcus, MPN Fecal Coliform, MF Lab-ID F1209343-11	Sample L 20B	Result 5200 Description Result 2420 4000 Description	Qual Qual	1 100 MDL 1 100	POL 1 100 Matr Surface POL 1 100 Matr Surface	Water Units MPN/100ml CFU/100ml X Sa Water Units MPN/100ml CFU/100ml X Sa Water	Method Enterolert SM9222D mple Type GRAB Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Date 9/25/12 15: Batch # FB120928005 FB120928012 Received Date 9/25/12 15:	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 e/Time San 50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:44 9/25/12 16:11 e/Fime San 50 Analysis	9/25/12 12: Analyst LV LV 19/25/12 13: Analyst LV LV LV 10le Date 9/25/12 13:	Lab ID E85457 E85457 Lab ID E85457 E85457 E85457 E85457		

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

Sample Type Received Date/Time Sample Date/Time

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Laboratory Test Report

Client:

Test America Tampa

Sample Description

Client Project: MACTEC

Page: Page 3 of 5

Lab Project: F1209343

Report Date: 10/03/12

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F1209343-12	22A3				Surface	Water	GRAB	9/25/12 15:	50	9/25/12 14:	00		
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>POL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>		
Enterococcus, MPN		162		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457		
Fecal Coliform, MF		2450	В	9	9	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457		
ambip	Sample D	escription			Matr	k Sa	mple-Evpe	Received Dat	e/Time San	iple Date/	Pimie		
F1209343-13	22B	1		occasion of pro-congress open and water the	Surface	Water	GRAB	9/25/12 15:	50	9/25/12 14:	30		
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> Date/Time	Analyst	<u>Lab ID</u>		
Enterococcus, MPN		378		1	1	MPN/100ml	Enterolert	FB120928005	9/25/12 16:44	LV	E85457		
Fecal Coliform, MF		2340	В	9	9	CFU/100ml	SM9222D	FB120928012	9/25/12 16:11	LV	E85457		
BEADEID E	Sample 1)	eseription			. Matr	ix Sa	mple=Expe	Received Dat	e/Time San	iple Date	Time		
F1209343-14	PW PUMP			// 1 / 201	Surface	Water	GRAB	9/25/12 15:	50	9/25/12 14:	45		
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>		
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		
	Sample D				Mair				rris	mlo-Waka	94		
	- Dalli Neri	Tevieri areita				A PART DA	mple=Evpe	Received Date	60 a 1111 [6]	the rate.	111110		
F1209343-15	REUSE 1	<u> 1921 a B 101 (0) 1</u>		in The st	Surface	Committee of the commit	GRAB	9/25/12 15:		9/25/12 15:			
		Result	<u>Qual</u>	<u>MDL</u>	Secretary of the second	Committee of the commit	W/W				00		
F1209343-15		, , , , , , , , , , , , , , , , , , , ,		<u>MDL</u>	Surface	Water	GRAB	9/25/12 15:	50 Analysis	9/25/12 15:	00		
F1209343-15 Parameter		Result	Qual		Surface POL	Water <u>Units</u>	GRAB Method	9/25/12 15: <u>Batch #</u>	50 Analysis Date/Time	9/25/12 15: Analyst	Lab ID		
F1209343-15 Parameter Enterococcus, MPN	REUSE I	Result	Qual U U	1	Surface POL 1 2 Mate	Water <u>Units</u> MPN/100ml CFU/100ml	GRAB Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Dat	50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:11	9/25/12 15: Analyst LV LV IDIC Date/	E85457 E85457		
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF	REUSE I	Result 1 2	Qual U U	1	Surface POL 1 2	Water <u>Units</u> MPN/100ml CFU/100ml	Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012	50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:11	9/25/12 15: Analyst LV LV	E85457 E85457		
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF	REUSE I	Result 1 2	Qual U U	1	Surface POL 1 2 Mate	Water <u>Units</u> MPN/100ml CFU/100ml	GRAB Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Dat	50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:11	9/25/12 15: Analyst LV LV IDIC Date/	E85457 E85457 Time		
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF Eab 10 F1209343-16	REUSE I	Result 1 2 Pescription	Qual U U	1 2	POL 1 2 Mati	Water <u>Units</u> MPN/100ml CFU/100ml IX Sin	Method Enterolert SM9222D Inple-Type GRAB	9/25/12 15: Batch # FB120928005 FB120928012 Received Date 9/26/12 11:	50 Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 E/Time San 15 Analysis	9/25/12 15: Analyst LV LV iple Date/ 9/26/12 7::	E85457 E85457 Time		
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF Eab 10 F1209343-16 Parameter	REUSE I	Result 1 2 Pescription Result	Qual U U	1 2 MDL	Surface POL 1 2 Matr Surface POL	Water <u>Units</u> MPN/100ml CFU/100ml IX Sa) Water <u>Units</u>	Method Enterolert SM9222D mple=Pype GRAB Method	9/25/12 15: Batch # FB120928005 FB120928012 Received Dat 9/26/12 11: Batch #	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 C/Time San 15 Analysis Date/Time	9/25/12 15: Analyst LV LV iple Date/ 9/26/12 7: Analyst	E85457 E85457 Time 30		
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF Eab 10 F1209343-16 Parameter Enterococcus, MPN Fecal Coliform, MF	REUSE I Sample D 7B	Result 2 Result Result 27 15	Oual U U Oual	1 2 MDL	POL 1 2 Matu Surface POL 1 2 Matu Surface	Water Units MPN/100ml CFU/100ml San Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D Inple-Type GRAB Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Dat 9/26/12 11: Batch # FB121003010 FB121003018 Received Dat	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 6/Time San 15 Analysis Date/Time 9/26/12 13:00 9/26/12 12:10	9/25/12 15: Analyst LV IDLE Date/ 9/26/12 7:: Analyst LV LV LV	E85457 E85457 Lab ID E85457 E85457 E85457 E85457		
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF Eab D F1209343-16 Parameter Enterococcus, MPN Fecal Coliform, MF	REUSE I Sample D 7B	Result 2 Result Result 27 15	Oual U U Oual	1 2 MDL	Surface POL 1 2 Mati Surface POL 1 2	Water Units MPN/100ml CFU/100ml San Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D Enterolert GRAB Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Dat 9/26/12 11: Batch # FB121003010 FB121003018	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 6/Time San 15 Analysis Date/Time 9/26/12 13:00 9/26/12 12:10	9/25/12 15: Analyst LV LV iple Date/ 9/26/12 7:: Analyst LV LV	E85457 E85457 Lab ID E85457 E85457 E85457 E85457		
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF Eab 10 F1209343-16 Parameter Enterococcus, MPN Fecal Coliform, MF	REUSE I Sample D 7B	Result 2 Result Result 27 15	Oual U U Oual	1 2 MDL	POL 1 2 Matu Surface POL 1 2 Matu Surface	Water Units MPN/100ml CFU/100ml San Water Units MPN/100ml CFU/100ml	Method Enterolert SM9222D Inple-Type GRAB Method Enterolert SM9222D	9/25/12 15: Batch # FB120928005 FB120928012 Received Dat 9/26/12 11: Batch # FB121003010 FB121003018 Received Dat	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 6/Time San 15 Analysis Date/Time 9/26/12 13:00 9/26/12 12:10	9/25/12 15: Analyst LV IDLE Date/ 9/26/12 7:: Analyst LV LV LV	E85457 E85457 Lab ID E85457 Lab ID E85457 E85457 E85457		
F1209343-15 Parameter Enterococcus, MPN Fecal Coliform, MF Eab ID F1209343-16 Parameter Enterococcus, MPN Fecal Coliform, MF Eab ID F1209343-17	REUSE I Sample D 7B	Result 2 Pescription Result 27 15	Qual U U Qual B	1 2 MDL 1 2	POL 1 2 Matr Surface POL 1 2 Matr Surface	Water Units MPN/100ml CFU/100ml Sa) Water Units MPN/100ml CFU/100ml Simulater Simulater	Method Enterolert SM9222D mple=Eype GRAB Method Enterolert SM9222D mple=Eype GRAB	9/25/12 15: Batch # FB120928005 FB120928012 Received Dat 9/26/12 11: Batch # FB121003010 FB121003018 Received Dat 9/26/12 11:	Analysis Date/Time 9/25/12 16:44 9/25/12 16:11 6/Time San 15 Analysis Date/Time 9/26/12 13:00 9/26/12 12:10 6/Time San 15 Analysis	9/25/12 15: Analyst LV IDIC Date/ 9/26/12 7: LV LV LV IDIC Date/ 9/26/12 8:0	E85457 E85457 Lab ID E85457 Lab ID E85457 E85457 E85457		

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

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Laboratory Test Report

Client: Test America Tampa

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Client Project: MACTEC

Lab Project: F1209343

Report Date: 10/03/12

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PERIORIO	S topographic and the state of	teseraption			Matr		mple:/Eype	Received Dat	Carlotte Carlotte	Sample Date/Time			
F1209343-18	9B				Surface	Water	GRAB	9/26/12 11:	15	9/26/12 8:	30		
<u>Parameter</u>		Result	Qual	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>		
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		
Elabero E	<u> Samble I</u>) Pescription			Matr	ix Sa	mple Type	Received Dat	e/Time San	mle Date	Time =		
F1209343-19	10B			200000000000000000000000000000000000000	Surface	Water	GRAB	9/26/12 11:		9/26/12 9:0	All and the second of the seco		
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	Lab ID		
Enterococcus, MPN		186		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	LV	E85457		
Fecal Coliform, MF		374	В	2	2	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457		
]sajbilD====	Sample D) Description			Matr		mple Type	Received Dat	e/Eime==San	iple Date	Tine		
F1209343-20	11B		1,000		Surface	Water	GRAB	9/26/12 11:	15	9/26/12 9:	30		
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> Date/Time	Analyst	<u>Lab ID</u>		
Enterococcus, MPN		194		1	1	MPN/100ml	Enterolert	FB121003010	9/26/12 13:00	LV	E85457		
Fecal Coliform, MF		489	В	2	2	CFU/100ml	SM9222D	FB121003018	9/26/12 12:10	LV	E85457		
a Babaro	1000 - 10	Description			Mah	Commence of the local party of t	mple-Type	=Roccive(EDat					
Eab-UD F1209343-21	Sample) 11 PUMP	Description		Tanan Yang	Matr Surface	Commence of the local party of t	mple Lype GRAB	Received Dat 9/26/12 11:		iple Date 9/26/12 9:			
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F1209343-21	1000 - 10			<u>MDL</u>	Surface	Water	GRAB	9/26/12 11:	15 Analysis	9/26/12 9:	45		
F1209343-21 Parameter	1000 - 10	Result			Surface PQL	Water <u>Units</u>	GRAB Method	9/26/12 11: Batch #	Analysis Date/Time	9/26/12 9: <u>Analyst</u>	45 <u>Lab ID</u>		
F1209343-21 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID	II PUMP	Result	Qual	1	Surface POL 1 100 Mate	Water <u>Units</u> MPN/100ml CFU/100ml	Method Enterolert SM9222D	9/26/12 11: Batch # FB121003010 FB121003018 Received Dat	Analysis	9/26/12 9: Analyst LV LV inple Date	Lab ID E85457 E85457		
F1209343-21 Parameter Enterococcus, MPN Fecal Coliform, MF	11 PUMP	Result 127 4700	Qual	1	Surface PQL 1 100	Water <u>Units</u> MPN/100ml CFU/100ml	Method Enterolert SM9222D	9/26/12 11: Batch # FB121003010 FB121003018	Analysis	9/26/12 9: <u>Analyst</u> LV LV	Lab ID E85457 E85457		
F1209343-21 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID	II PUMP	Result 127 4700	Qual	1	Surface POL 1 100 Mate	Water <u>Units</u> MPN/100ml CFU/100ml	Method Enterolert SM9222D	9/26/12 11: Batch # FB121003010 FB121003018 Received Dat	Analysis	9/26/12 9: Analyst LV LV inple Date	Lab ID E85457 E85457 Time 45		
F1209343-21 Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1209343-22	II PUMP	Result 127 4700 Description	<u>Qual</u>	1 100	POL 1 100 Mater Surface	Water Units MPN/100ml CFU/100ml ix Sa Water	Method Enterolert SM9222D mple Type GRAB	9/26/12 11: Batch # FB121003010 FB121003018 Received Date 9/26/12 15:	Analysis	9/26/12 9: Analyst LV LV iple Date: 9/26/12 10:	Lab ID E85457 E85457 Time 45		
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Nokomis Lab ~ 1050 Endeavor Ct. \sim Nokomis, FL 34275-3623 \sim Phone: 941-488-8103 \sim Fax: 941-484-6774 \sim DOH Certification # E84380 Fort Myers Lab ~ 10090 Bavaria Road \sim Fort Myers, FL 33913 \sim Phone: 239-590-0337 \sim Fax: 239-590-0536 \sim DOH Certification # E85457

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Laboratory Test Report

Client: Test America Tampa

Page: Page 5 of 5

Client Project: MACTEC

Fecal Coliform, MI7

Lab Project: F1209343

Report Date: 10/03/12

								Report Date: 10/05/12						
labilbe.		escription			Mätr		mple Lype	Received Dat	Control (Con-	imple Date/Time				
F1209343-24	14 PUMP				Surface '	Water	GRAB	9/26/12 15:	30	9/26/12 11:	15			
<u>Parameter</u>		Result	Qual	MDL.	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> Date/Time	Analyst	<u>Lab ID</u>			
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			
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<u>Parameter</u>		Result	Qual	MDL	POL	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	Analyst	<u>Lab ID</u>			
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			
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Fecal Coliform, MF		2	U	2	2	CFU/100ml	SM9222D	FB121003020	9/26/12 15:40	LV	E85457			
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F1209343-27 Parameter		Result	**************************************		Surface T	Water <u>Units</u>	GRAB <u>Method</u>	9/26/12 15: Batch #	Analysis Date/Time	9/26/12 12: Analyst	45 Lab ID			
F1209343-27 Parameter Enterococcus, MPN	24B	Result 42	Qual	1	Surface POL	Water <u>Units</u> MPN/100ml CFU/100ml	GRAB Method Enterolert	9/26/12 15: <u>Batch #</u> FB121003011	Analysis Date/Time 9/26/12 15:40 9/26/12 15:40	9/26/12 12: Analyst LV LV	45 Lab ID E85457 E85457			
F1209343-27 Parameter Enterococcus, MPN Fecal Coliform, MF	24B	Result 42 3200 Description	Qual	1	POL 1 100	Water <u>Units</u> MPN/100ml CFU/100ml	Method Enterolert SM9222D	9/26/12 15: Batch # FB121003011 FB121003020	Analysis <u>Analysis</u> <u>Date/Time</u> 9/26/12 15:40 9/26/12 15:40 e/Fime San	9/26/12 12: Analyst LV LV	45 Lab ID E85457 E85457			
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Nokomis Lab ~ 1050 Endeavor Ct. \sim Nokomis, FL 34275-3623 \sim Phone: 941-488-8103 \sim Fax: 941-484-6774 \sim DOH Certification # E84380 Fort Myers Lab ~ 10090 Bavaria Road \sim Fort Myers, FL 33913 \sim Phone: 239-590-0337 \sim Fax: 239-590-0536 \sim DOH Certification # E85457

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CHAIN-OF-CUSTODY RECORD

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Sanders Laboratories INC. Environmental Testing Services	•
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CHAIN-OF-CUSTODY RECORD

Bill To: P.O. # Report To:

Preservative: HCI = H, HNO3 = N, Na2S2O3 = ST,

H₂SO₄ = S, NaOH = SH, NH₄CI = NH

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Preservative: HCI = H, HNO3 = N, Na2S2O3 = ST, H₂SO₄ = S, NaOH = SH, NH₄CI = NH

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Stamwite	Project Name: Negles Sta	Bill To: Test America-	lest America	Client
	-		Environmental Testing Services	
으 /8/2	Page_		Laboratories INC.	

Page 26 of 30

RECENTED FOR LABORATORY BY (SIGNATURE)		RECEIVED BY: (SIGNATURE)	EMPTY CONTAINERS							9/27 730	DATE TIME	COMPANY CONTRACTING THIS WORK (if applicable)	CLIENT ADDRESS	AMEC - Som	CLIENT (SITE) PM	SAMPLER'S SIGNATURE	PROJECT REFERENCE	THE LEADER IN ENVIRONMENTAL TESTING	IDSTAMPION (ISSUER)
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1/27/kg		DATE TI	$\frac{6}{5}$							-	SAMPLE IDI	e)		CLIENT E-MAIL	CLIENT PHONE	P.O. NUMBER	PROJECT NO.	ω = 2	ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD
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O.L.	10 10 10 10 10 10 10 10 10 10 10 10 10 1	$(\varphi\varphi)$	TIME							1	ER OF CONTA	收购	 	IP Cv			REQUIRED ANALYSIS	Alternate Laboratory Name/Location	TestAmerica Tampa 6712 Benjamin Road, Suite 100 Tampa, FL 33634
() () () () () () () () () () () () () (· · · · · · · · · · · · · · · · · · ·	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)								NUMBER OF CONTAINERS SUBMITTED						ANALYSIS	ation	
and official processes in	を 1 年 1 年 1 日 1 日 1 日 1 日 1 日 1 日 1 日 1 日	GNATURE)	3Y: (SIGNATURE)				-											Phone: Fax:	Website: www.testam Phone: (813) 885-74 Fax: (813) 885-7049
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	我也是我的人,我们是不不是你有多少的	TIME	TIME								REMARKS	NUMBER OF COOLERS SUBMITTED PER SHIPMENT:		EPORT		EPORT (Q.	· i	.com

Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-50305-1

Login Number: 50305 List Source: TestAmerica Tampa

List Number: 1

Creator: McNulty, Carol

ordator. mortality, our or		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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 Source: TestAmerica Pittsburgh
List Number: 1
List Creation: 09/28/12 12:21 PM

Creator: Watson, Debbie

Creator: Watson, Debbie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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	

11/8/2012

TestAmerica Tampa

Login Sample Receipt Checklist

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-50305-1

List Source: TestAmerica Tallahassee
List Number: 1
List Creation: 09/29/12 02:44 PM

Creator: Delp, Eric

Creator: Delp, Eric		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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 ampered 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	
s the Field Sampler's name present on COC?	True	
here 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	
ppropriate 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	
fultiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

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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 -----

Review your project results through Total Access

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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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

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

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

Metals

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

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

Glossary

Abbreviation	These commonly	used abbreviations may	v or may not be	present in this report
Appreviation	These commonly	useu appreviations ma	y or may not be	present in this report.

Eisted 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)

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Detection Summary

Client: AMEC Environment & Infrastructure, Inc. Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-51589-1

3

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
Nitrogen, Kjeldahl	1.6		0.20	0.15	mg/L	1		351.2	Recoverable 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

5

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	ī ·	2.0	0.14	ug/L		_	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

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Client Sample ID: PW-Pump Lab Sample ID: 660-51589-3

								In -	
Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.3	I	2.0	0.14	ug/L		_	200.8	Total
Nitrogen, Kjeldahl	1.1		0.20	0.15	mg/L	1		351.2	Recoverable 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

14

Client Sample ID: Reuse 3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D N	/lethod	Prep Type
Copper	0.96	Ī	2.0	0.14	ug/L	1	_ 2	200.8	Total
									Recoverable
Nitrogen, Kjeldahl	0.82		0.20	0.15	mg/L	1	3	351.2	Total/NA
Nitrate Nitrite as N	0.33		0.050	0.010	mg/L	1	3	353.2	Total/NA
Phosphorus	0.74		0.020	0.0088	mg/L	2	3	865.1	Total/NA
Total Suspended Solids	1.6		1.0	1.0	mg/L	1	S	SM 2540D	Total/NA
Nitrogen, Total	1.2		0.25	0.25	mg/L	1	Т	otal Nitrogen	Total/NA

TestAmerica Tampa

Client Sample Results

Client: AMEC Environment & Infrastructure, Inc. Project/Site: City of Naples Stormwater 2012

TestAmerica Job ID: 660-51589-1

Lab Sample ID: 660-51589-1

Matrix: Water

Date Collected: 12/06/12 10:15 Date Received: 12/07/12 09:00

Client Sample ID: 14-Pump

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 Lab Sample ID: 660-51589-2

Date Collected: 12/06/12 11:15

Date Received: 12/07/12 09:00

	Method: 1694 - Pharmaceuticals ar	nd Personal	Care Produc	ts (LC/MS/M	S)					
İ	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
	Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
	13C3-Caffeine	89		25 - 150				12/13/12 13:18	12/28/12 22:31	1

Method: 200.8 - Metals (ICP/MS) - T	otal Recove	rable							
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									

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 Lab Sample ID: 660-51589-3 Date Collected: 12/06/12 12:45 **Matrix: Water**

Date Received: 12/07/12 09:00

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											

General Chemistry									
Analyte	Result Q	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

Page 7 of 31

Matrix: Water

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

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
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3-Caffeine	60		25 - 150				12/13/12 13:18	12/28/12 23:02	1
- Method: 200.8 - Metals (ICP/MS	S) - Total Recove	rable							
Analyte		Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.96	Ī	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

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 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 8061** Prep Batch: 8028 мв мв

PQL Result Qualifier MDL Unit D Dil Fac Analyte Prepared Analyzed 50 12/13/12 13:18 Caffeine 50 U 50 ng/L 12/28/12 22:01 MB MB

Isotope Dilution %Recovery Qualifier Limits Prepared Analyzed Dil Fac 12/13/12 13:18 13C3-Caffeine 34 25 - 150 12/28/12 22:01

Lab Sample ID: LCS 320-8028/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water Analysis Batch: 8061 Prep Batch: 8028 LCS LCS Spike %Rec.

Analyte Added Result Qualifier Unit %Rec Limits Caffeine 100 108 ng/L 108 60 - 140 LCS LCS

%Recovery Isotope Dilution Qualifier Limits 13C3-Caffeine 30 25 - 150

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 180-57750/1-A Client Sample ID: Method Blank **Matrix: Water Prep Type: Total Recoverable**

Analysis Batch: 58038 Prep Batch: 57750 MB MB

Analyte Result Qualifier PQL MDL Unit D Prepared Analyzed Dil Fac 0.14 U 2.0 ug/L 12/09/12 17:51 12/11/12 15:36 Copper 0.14

Lab Sample ID: LCS 180-57750/2-A Client Sample ID: Lab Control Sample **Prep Type: Total Recoverable Matrix: Water**

Analysis Batch: 58038 Prep Batch: 57750 LCS LCS Spike %Rec.

Analyte Added Result Qualifier Unit D %Rec Copper 250 220 ug/L 88 85 - 115

Lab Sample ID: LCSD 180-57750/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Water Prep Type: Total Recoverable Analysis Batch: 58038** Prep Batch: 57750 LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit 250 94 85 - 115

236

ug/L

Method: 351.2 - Nitrogen, Total Kjeldahl

Copper

Lab Sample ID: MB 680-259252/2-A Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA Analysis Batch: 259371 Prep Batch: 259252

MB MB PQL Result Qualifier MDL Unit Dil Fac Analyte Prepared Analyzed 12/10/12 08:36 Nitrogen, Kjeldahl 0.15 U 0.20 0.15 mg/L 12/11/12 12:16

TestAmerica Tampa

TestAmerica Job ID: 660-51589-1

Client: AMEC Environment & Infrastructure, Inc. Project/Site: City of Naples Stormwater 2012

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

MR MR

Lab Sample ID: LCS 680-259252/1-A C						Client Sample ID: Lab Control Sample				
Matrix: Water				Prep 1	Type: Total/NA					
Analysis Batch: 259371							Prep	Batch: 259252		
	Spike	LCS	LCS				%Rec.			
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Nitrogen, Kjeldahl	2.00	1.98		mg/L		99	75 - 125			

-									
Lab Sample ID: 660-51580-A-1-B N	IS							Client	Sample ID: Matrix Spike
Matrix: Water									Prep Type: Total/NA
Analysis Batch: 259371									Prep Batch: 259252
•	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits

Nitrogen, Kjeldahl	1.3		2.00	3.15		mg/L		92	75 - 125		
Lab Sample ID: 660-51580-A-1	-C MSD						Client S	ample II	D: Matrix Sp	oike Dup	licate
Matrix: Water									Prep T	ype: To	tal/NA
Analysis Batch: 259371									Prep I	Batch: 2	59252
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Nitrogen Kieldahl	13	-	2 00	3 42	-	ma/l		106	75 125	8	40

Lab Sample ID: 660-51580-A-2-B DU						Client Sample ID: Duplicate					
Matrix: Water								I	Prep Ty	pe: To	tal/NA
Analysis Batch: 259371									Prep B	atch: 2	59252
	Sample	Sample		DU	DU						RPD
Analyte	Result	Qualifier		Result	Qualifier	Unit	D			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	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total/NA

Analysis Batch: 259626

Analyte	Result	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 680-259626/1	6						Client	Sample	ID: Lab Control Sample
Matrix: Water									Prep Type: Total/NA
Analysis Batch: 259626									
			Spike	LCS	LCS				%Rec.
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
Nitrate Nitrite as N			0.997	1.04		mg/L		105	90 - 110
- Lab Sample ID: 660-51589-1 MS								Cli	ent Sample ID: 14-Pump
Matrix: Water									Prep Type: Total/NA
Analysis Batch: 259626									
-	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Nitrate Nitrite as N	0.32		0.997	1.36		mg/L		104	90 - 110

TestAmerica Job ID: 660-51589-1

99

90 - 110

Client: AMEC Environment & Infrastructure, Inc. Project/Site: City of Naples Stormwater 2012

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

Lab Sample ID: 660-51589-1 MSD	Client Sample ID: 14-Pump
Matrix: Water	Prep Type: Total/NA

Analysis Batch: 259626

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	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 **Client Sample ID: Duplicate Matrix: Water** Prep Type: Total/NA

Analysis Batch: 259626

Phosphorus

	Sample	Sample	DU	DU				RPD
Analyte	Result	Qualifier	Result	Qualifier	Unit	D	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	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total/NA
Analysis Batch: 97981	Prep Batch: 97951
МВ МВ	

Analyte Result Qualifier PQL MDL Unit Prepared Analyzed Phosphorus 0.0044 U 0.010 0.0044 mg/L 12/10/12 12:24 12/11/12 11:06

Lab Sample ID: LCS 640-97951/5-A Matrix: Water Analysis Batch: 97981						Client	Sample		trol Sample e: Total/NA atch: 97951
	-	Spike	LCS	LCS				%Rec.	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	

0.0989

mg/L

0.100

Lab Sample ID: LCSD 640-97951/6-A			Clie	ent Sam	ple ID: I	Lab Contro	ol Sampl	e Dup	
Matrix: Water						Prep T	ype: To	tal/NA	
Analysis Batch: 97981						Prep	Batch:	97951	
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit

Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Phosphorus	0.100	0.0995		mg/L		100	90 - 110	1	30
Г									

Lab Sample ID: 180-17063-F-3-A MS Client Sample ID: Matrix Spike **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 97981** Prep Batch: 97951

	Sample Sample	Spike	MS	MS				%Rec.
Analyte	Result Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Phosphorus	0.019	0.100	0.118		mg/L		99	90 - 110

Lab Sample ID: 180-17063-F-3-B MSD						Client Sample ID: Matrix Spike Duplicate						
Matrix: Water									Prep T	ype: To	tal/NA	
Analysis Batch: 97981									Prep	Batch:	97951	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Phosphorus	0.019		0.100	0.118		mg/L		100	90 - 110	0	30	

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TestAmerica Job ID: 660-51589-1

Prep Type: Total/NA

Client: AMEC Environment & Infrastructure, Inc. Project/Site: City of Naples Stormwater 2012

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: 180-17063-G-3-D DU **Client Sample ID: Duplicate**

Matrix: Water

Analysis Batch: 97981

Prep Type: Total/NA Prep Batch: 97951 Sample Sample DU DU

Result Qualifier Limit Analyte Result Qualifier D RPD Unit 30 Phosphorus 0.019 0.0184 mg/L

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

Lab Sample ID: MB 660-132457/1 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 132457

мв мв Result Qualifier PQL Analyte MDL Unit D Prepared Analyzed Dil Fac Total Suspended Solids 1.0 U 1.0 1.0 mg/L 12/13/12 13:13

Lab Sample ID: LCS 660-132457/2 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 132457

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Total Suspended Solids 100 96 95.6 mg/L 80 - 120

Lab Sample ID: 660-51589-1 DU Client Sample ID: 14-Pump **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 132457

DU DU Sample Sample RPD Result Qualifier Limit Result Qualifier Unit **RPD** 4.0 4.80 Total Suspended Solids 18 20 mg/L

Lab Sample ID: 660-51589-2 DU Client Sample ID: 11-Pump Prep Type: Total/NA

Matrix: Water

Analysis Batch: 132457

Sample Sample DU DU RPD Result Qualifier Result Qualifier RPD Analyte Limit Unit 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 Batcl
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	
_CSD 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

12/31/2012

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
LCSD 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

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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 Pro	ep 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	

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TestAmerica Job ID: 660-51589-1

Client: AMEC Environment & Infrastructure, Inc. Project/Site: City of Naples Stormwater 2012

Lab Sample ID: 660-51589-1

Matrix: Water

Client Sample ID: 14-Pump Date Collected: 12/06/12 10:15 Date Received: 12/07/12 09:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	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 Lab Sample ID: 660-51589-2

Date Collected: 12/06/12 11:15 Matrix: Water Date Received: 12/07/12 09:00

	Batch	Batch		Dil	Initi	al	Fin	al	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amo	unt	Amo	unt	Number	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	ТО	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 Lab Sample ID: 660-51589-3 Date Collected: 12/06/12 12:45 Matrix: Water

Date Received: 12/07/12 09:00

	Batch	Batch		Dil	Initial	Fin	al	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amo	unt	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			100 mL	100	mL	57750	12/09/12 17:51	СН	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	ТО	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

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Lab Chronicle

Client: AMEC Environment & Infrastructure, Inc. Project/Site: City of Naples Stormwater 2012

Client Sample ID: Reuse 3

Date Collected: 12/06/12 14:25

Date Received: 12/07/12 09:00

TestAmerica Job ID: 660-51589-1

Lab Sample ID: 660-51589-4

Matrix: Water

	Batch	Batch		Dil	Init	ial	Fin	al	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amo	unt	Amo	unt	Number	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	ТО	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	Microbiology	NONE	
Fecal Coliform			

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

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TestAmerica Job ID: 660-51589-1

Client: AMEC Environment & Infrastructure, Inc. Project/Site: City of Naples Stormwater 2012

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
lowa	State Program	7	353	07-01-13
Kentucky (UST)	State Program	4	18	02-28-13
Louisiana	NELAP	6	30690	06-30-13

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TestAmerica Job ID: 660-51589-1

Client: AMEC Environment & Infrastructure, Inc. Project/Site: City of Naples Stormwater 2012

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

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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

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Laboratory Test Report

Lab Project#: F1212119

Page Lof ____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

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12/31/2012

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SANDERS LABORATORIES, INC.

Laboratory Test Report

Client: Test America Tampa

Client Project: MACTEC

Page: Page 1 of 1

Lab Project: F1212119

Report Date: 12/10/12

Lab ID	Sample D	escription			Matr	ix Sai	nple I vpe	Received Date	/Time San	ple Date/	Time
F1212119-01	14-PUMP		The second secon		Ground '		GRAB	12/6/12 15:	39	12/6/12 10:	15
<u>Parameter</u>		Result	<u>Quai</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	Analysis Date/Time	Analyst	<u>Lab ID</u>
Enterococcus, MPN		550		1	l	MPN/100ml	Enterolert	FB121210011	12/6/12 16:00	LV	E85457
Feenl Coliform, MF		360	В	90	90	CFU/100ml	SM9222D	FB121210004	12/6/12 16:20	LV	E85457
Lab ID		escription	and the state of t		Matr		V-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Received Date			dr. Greiber allern
F1212119-02	11-PUMP				Ground	Water	GRAB	12/6/12 15:	39	12/6/12 11:	10
<u>Parameter</u>		Result	<u>Qual</u>	MDL	<u>PQL</u>	<u>Units</u>	Method	Batch #	<u>Analysis</u> <u>Date/Time</u>	<u>Analyst</u>	<u>Lab ID</u>
Enterococcus, MPN		501		ı	1	MPN/100ml	Enterolert	FB121210011	12/6/12 16:00	LV	E85457
Fecal Coliform, MF		450	В	90	90	CFU/100ml	SM9222D	FB121210004	12/6/12 16:20	LV	E85457
LabID	Samble D	escription			Matr	ix Sa	mple Type	Received Dat	e/Time San	iple Date	Time
<u>LabilD</u> F1212119-03	Sample D PW-PUMP	escription			Matr Ground	AND AND AND AND AND AND AND AND AND AND	mple Type = GRAB	Received Dat 12/6/12 15:		iple Date/ 12/6/12 12:	I Perfuse Present
The same way and the same of t	Till danger and manager and and appropriate	Description Result	<u>Qual</u>	MDL.		AND AND AND AND AND AND AND AND AND AND	Contract of the Contract of th				45
F1212119-03	Till danger and manager and and appropriate		ari us voistum distributant distri	<u>MDL</u>	Ground	Water	GRAB	12/6/12 15:	39 <u>Analysis</u>	12/6/12 12:	45
F1212119-03 Parameter	Till dangers and management and an arrangement	Result	ari us voistum distributant distri		Ground	Water <u>Units</u>	GRAB <u>Method</u>	12/6/12 15: Batch #	39 <u>Analysis</u> <u>Date/Time</u>	12/6/12 12: Analyst	45 <u>Lab ID</u>
F1212119-03 Parameter Enterococcus, MPN Fecal Coliform, MF	PW-PUMP	<u>Result</u> 437 5200	<u>Qual</u>	1	Ground POL 1 100	Water <u>Units</u> MPN/100ml CFU/100ml	GRAB Method Enterolert	12/6/12 15: <u>Batch #</u> FB121210011	Analysis Date/Time 12/6/12 16:00 12/6/12 16:20	12/6/12 12: <u>Analyst</u> LV LV	45 <u>Lab ID</u> E85457
F1212119-03 Parameter Enterococcus, MPN	PW-PUMP	Result 437	<u>Qual</u>	1	Ground POL 1 100	Water <u>Units</u> MPN/100ml CFU/100ml	Method Enterolert SM9222D	12/6/12 15: Batch # FB121210011 FB121210004	39 Analysis Date/Time 12/6/12 16:00 12/6/12 16:20 e/Time San	12/6/12 12: <u>Analyst</u> LV LV	Lab ID E85457 E85457 Time
F1212119-03 Parameter Enterococcus, MPN Fecal Coliform, MF Lab 1D	PW-PUMP	<u>Result</u> 437 5200	<u>Qual</u>	1	Ground POL 1 100 Matr	Water <u>Units</u> MPN/100ml CFU/100ml	GRAB Method Enterolert SM9222D mple:Type	12/6/12 15: Batch # FB121210011 FB121210004 Received Dat	39 Analysis Date/Time 12/6/12 16:00 12/6/12 16:20 e/Time San	12/6/12 12: Analyst LV LV nple Date	Lab ID E85457 E85457 Time 25
Parameter Enterococcus, MPN Fecal Coliform, MF Lab ID F1212119-04	PW-PUMP	Result 437 5200 Pescription	<u>Qual</u>	1	POL 1 100 Matr Ground	Water <u>Units</u> MPN/100ml CFU/100ml ix Water	Method Enterolert SM9222D mple-Type GRAB	12/6/12 15: Batch # FB121210011 FB121210004 Received Date 12/6/12 15:	39 Analysis Date/Time 12/6/12 16:00 12/6/12 16:20 e/Time: San 39 Analysis	Analyst LV LV apple Date, 12/6/12 14:	Lab ID E85457 E85457 Time 25

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

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Phone ast Kenning JOW DC

Client Address

> Bill To: P.O. # Report To: Jarry Roberton EstAmerica

Preservative: HCI = H, HNO₃ = N, Na₂S₂O₃ = ST, HaSO4 = S, NaOH = SH, NH4O1 = NH

> PROJECT 122XC

Project Name: City of Naples Storm water l oí

Customer Type: For AMEC Project Location:

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7.1			COMMENTS:							REUSE 3	PW-PUMP	11- PUMP	14- PUMP	Nonellessocations	Sampler Signature	Sampled By (PRINT)
(Yes)No	SAMPLES	CLIENT INITIAL:	OKAY NG EUN										121	// (0.1		
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10090 Bavaria Rd., Fart Nivers, FL 33913 • (239) 590-0337 • FAX (239) 590-0536

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Company Company

Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-51589-1

Login Number: 51589 List Source: TestAmerica Tampa

List Number: 1

Creator: McNulty, Carol

oreator. mortality, our or		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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	
s 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	

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Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-51589-1

List Source: TestAmerica Pittsburgh
List Number: 1
List Creation: 12/08/12 10:50 AM

Creator: Watson, Debbie

Creator: Watson, Debbie		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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	

N/A

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Client: AMEC Environment & Infrastructure, Inc. Job Number: 660-51589-1

List Source: TestAmerica Savannah
List Number: 1
List Creation: 12/08/12 08:42 AM

Creator: Barnett, Eddie T

oreator. Darriett, Ludie 1		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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	

N/A

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Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-51589-1

List Source: TestAmerica Tallahassee
List Number: 1
List Creation: 12/08/12 10:55 AM

Creator: Delp, Eric

Creator: Delp, Eric		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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	

N/A

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Client: AMEC Environment & Infrastructure, Inc.

Job Number: 660-51589-1

List Source: TestAmerica West Sacramento
List Number: 1
List Creation: 12/10/12 02:18 PM

Creator: Control, Sac Data

Creator: Control, Sac Data		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	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	

N/A

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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)
		3C3-Caffein	
Lab Sample ID	Client Sample ID	(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		

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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



 $\textbf{Photo No. 8.} \ Lake \ 3, \ view \ from \ N \ end \ facing \ S$

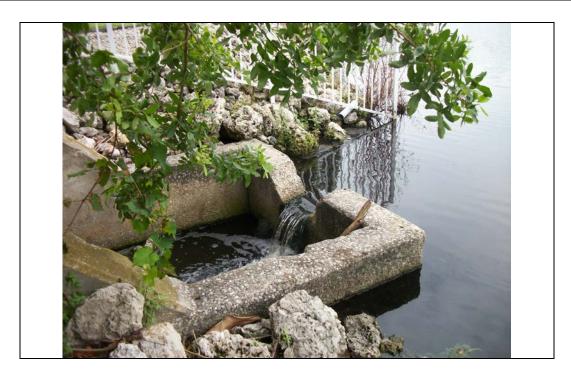


Photo No. 9. Sample Location 5B



Photo No. 10. Lake 5, view from outfall to the NE



Photo No. 11. Lake 5, view from SE end to the NW

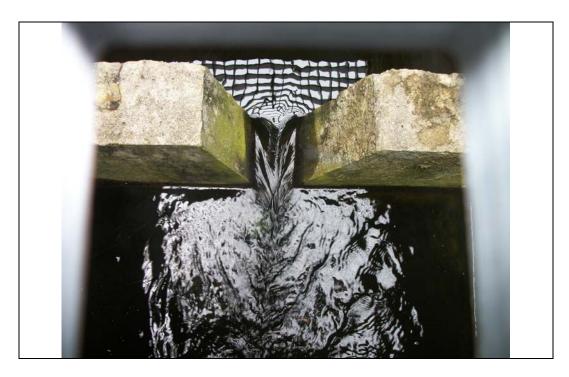


Photo No. 12. Sample Location 6B



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

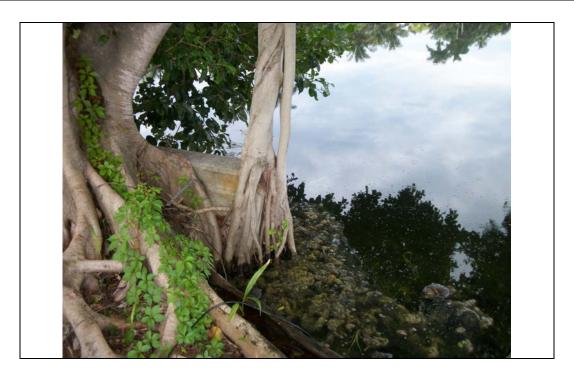


Photo No. 19. Sample location 9B



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



 $\textbf{Photo No. 27.} \ Lake \ 14, view \ from \ outfall \ to \ the \ N$



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

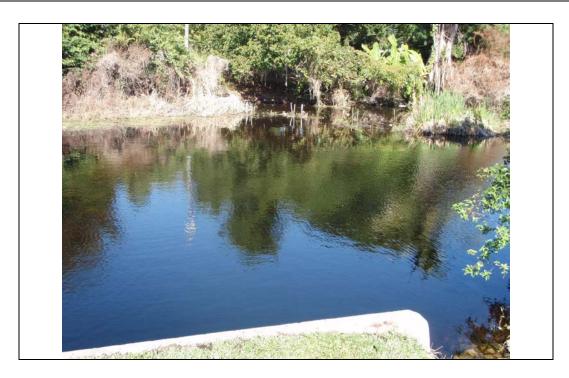


Photo No. 51. Sample location 22A



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

AMEC



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

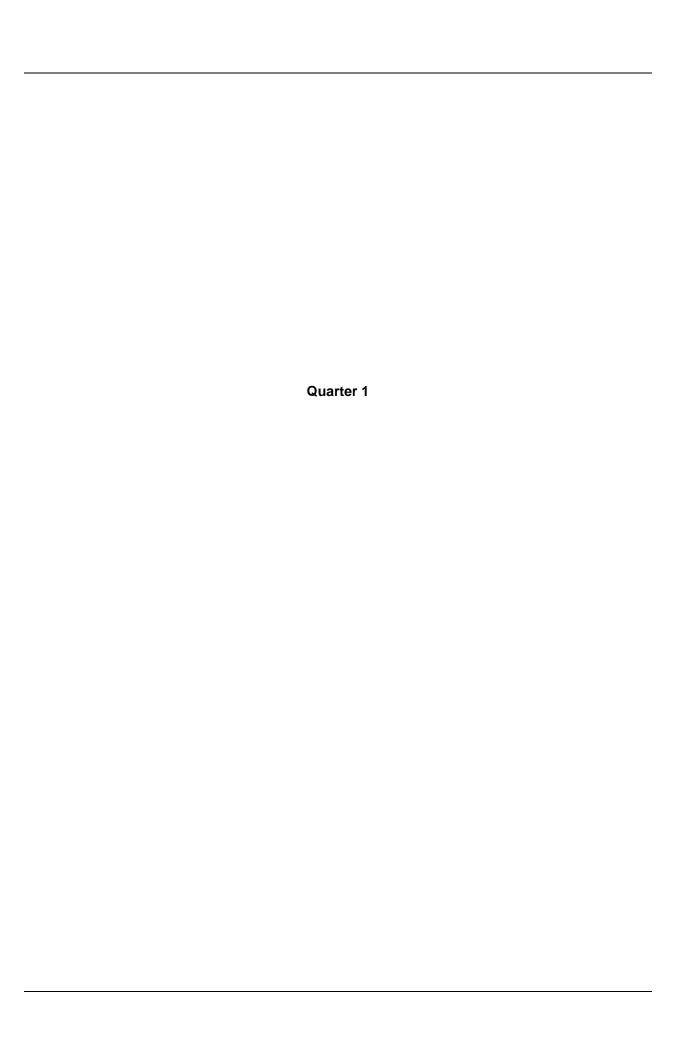


Photo No. 68. Sample location Reuse 1 and Reuse 3



Photo No. 69. Sample location Reuse 2, view to the SW





Lake ID#: 28	Lake Name:		Client:		
Lake ID #: Z S Lake Name: Client: Date: 4/4 Time: 9:00 Field Team:					
Location:	Weather:				
Water Quality Depth	Profiles				
Parameter		Mid-Depth	Bottom		
Water Temperature (°C)	27, 33				
pH (S.U.)	8.17				
Salinity (ppt)	*****				
Conductivity (μS/cm)	462 9.17				
D.O. (ppm)	9.17				
Water Sample Coll	ection				
Sample ID #: Date: Time:					
Depth Sample Collected:Method of Sample Collection:					
# of Sample Bottles:Location of Sample Collection:					
Parameters to be Analyzed:					
COC#:					
Comments					
į					
Signature:					
Field Team Leader:		Date:			

Lake ID #:	Lake Name:		Client:	
Date: <u>4/9</u> Ti	ime: <u>9:/5</u> Field	d Team:		
,	Weather:			
Water Quality Depth				
Parameter	Surface	Mid-Depth	Bottom	
Water Temperature (°C)	27.27			
рН (S.U.)	7.88	· · · · · · · · · · · · · · · · · · ·		
Salinity (ppt)				
Conductivity (µS/cm)	508 5,38			
D.O. (ppm)	5,38			
Water Sample Coll	ection			
Sample ID #:	Da	te:	Time:	
Depth Sample Collected:Method of Sample Collection:				
# of Sample Bottles: Location of Sample Collection:				
Parameters to be Analyzed:				
COC#:				
Comments				
Floring - same as ZB				
	1			
Signature: Date:				
Field Team Leader:		Date:		

Lake ID #: 5B	Lake Name:	c	lient:
Date: 4/4 T	ime: 7:55 Fiel	d Team:	
Location:	Weather:		
Water Quality Depth	Profiles		
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)			
рН (S.U.)	8.52		
Salinity (ppt)			
Conductivity (µS/cm)	442		
D.O. (ppm)	9,25		
Water Sample Coll	ection		
Sample ID #:	D:	ate:	Time:
 Depth Sample Collected 	:Method of	Sample Collection:	
# of Sample Bottles:	Location of	Sample Collection:	
Parameters to be Analyz	ed:		
COC#:	a transitation and the contract of the contrac		
Comments			
Algre Sloom	y crea &	face diges	. 8 sofice
- / f n /	y gren &	particulate in	1 radire
Signature:		Date:	(y
Field Team Leader:		Date:	
	actua	J algae	Fland legth
{			

Lake ID #: /5}	Lake Name:	Cli	ent:	
Date: 4 T	ime: 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 Coll	ection		, de	
Sample ID #;	Da	te:	Time:	
Depth Sample Collected:Method of Sample Collection:				
f of Sample Bottles: Location of Sample Collection:				
Parameters to be Analyzed:				
COC#:				
Comments				
Cloudy,	can't tell if	+ is along	or TSS/705.	
Almost	Cloudy, count tell if it is algae or TSS/TDS. Almost looks Colloidal, greyish			
Signature:	L.	Date:		
Field Team Leader:		Date:	****	

Lake ID #:	Lake Name:		Client:		
Lake ID #: Client: Client: Date: Time: Field Team:					
/	Weather:				
Water Quality Depth	Profiles				
Parameter	Surface	Mid-Depth	Bottom		
Water Temperature (°C					
рН (S.U.)	7.95				
Salinity (ppt)					
Conductivity (µS/cm)	409				
D.O. (ppm)	7.23				
Water Sample Coll	ection	W-444-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			
Sample ID #:	Sample ID #: Time:				
Depth Sample Collected:Method of Sample Collection:					
# of Sample Bottles: Location of Sample Collection:					
Parameters to be Analyzed:					
COC#:					
Comments					
Sampled @ Leaduch, lots of Juck					
fices on the headel A in the					
Loca .					
Signature: Date:					
Field Team Leader: Date:					

PL/					
Lake ID #:	Lake Name	:	Client:		
Date: 4/4 T	Date: 1/4 Time: 1/30 Field Team:				
Location:	Weather:				
Water Quality Depth	Profiles				
Parameter	Surface	Mid-Depth	Bottom		
Water Temperature (°C	26.85				
рН (S.U.)	7.20				
Salinity (ppt)					
Conductivity (μS/cm)	1430				
D.O. (ppm)	6.14				
Water Sample Coll	lection				
Sample ID #:		Date:	Time:		
Depth Sample Collected:Method of Sample Collection:					
# of Sample Bottles: Location of Sample Collection:					
Parameters to be Analyzed:					
COC#:					
Comments		. HANNA			
that is very low - low input flow probably					
Signature:					
Field Team Leader:		Date:			

Lake ID #:	Lake Name:		Client:	
Lake ID #:				
Location:	Weather:		·	
Water Quality Depth	Profiles			
Parameter	Surface	Mid-Depth	Bottom	
Water Temperature (°C				
рН (S.U.)	7,33			
Salinity (ppt)				
Conductivity (µS/cm)	1031			
D.O. (ppm)	5,25			
Water Sample Coll	ection	***************************************		
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:				

Lake ID #: 21 B	Lake Name:		Client:	
Date: 4	ime: <u>1320</u> Field	d Team:	Client:	
Location:	Weather:			
Water Quality Depth	Profiles			
Parameter	Surface	Mid-Depth	Bottom	
Water Temperature (°C)	29.38 Elon 7.86			
рН (S.U.)	8.02 7.86			
Salinity (ppt)				
Conductivity (µS/cm)	472			
D.O. (ppm)	8.02			
Water Sample Coll	ection			
Sample ID #: Time:				
Depth Sample Collected:Method of Sample Collection:				
# of Sample Bottles:Location of Sample Collection:				
Parameters to be Analyzed:				
COC#:				
Comments				
Signature:	l	Date:	1/11	
Field Team Leader:		Date:		

Lake ID#: 20 B	Lake Name: Client:			
Lake ID #: 20 B Lake Name: Client: Client: Client: Client: Client: Client:				
Location:	Weather:			
Water Quality Depth	Profiles			
Parameter	Surface	Mid-Depth	Bottom	
Water Temperature (°C)	28.27			
рН (S.U.)	8.16			
Salinity (ppt)				
Conductivity (µS/cm)	541			
D.O. (ppm)	7. 36			
Water Sample Coll	ection			
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 flue was a lake is				
green as USUK				
Signature: Date: 1/2				
Field Team Leader: Date:				
Part				

Naples Water Field Forms

Lake ID#: 22A	Lake Name:		Client:		
Date: 4/1/	Date: 4/1/ Time: 1370 Field Team:				
Location:	Weather:				
Water Quality Depth	Profiles				
Parameter	Surface	Mid-Depth	Bottom		
Water Temperature (°C					
рН (S.U.)	7.16				
Salinity (ppt)	U				
Conductivity (µS/cm)	701				
D.O. (ppm)	246 2.40				
Water Sample Coll	ection				
Sample ID #:	Da	te:	Time:		
Depth Sample Collected	Depth Sample Collected:Method of Sample Collection:				
# of Sample Bottles:Location of Sample Collection:					
Parameters to be Analyz	ed:				
COC#:					
Comments					
SHANN BANGE					
Stalf lights of the things to the					
Signature: Date:					
Field Team Leader: Date:					

Page _____ of ____

Lake ID#: 22B	Lake Name:		Client:		
Date: 4/4 Time: 1345 Field Team:					
	Weather:				
Water Quality Depth	Profiles				
Parameter	Surface	Mid-Depth	Bottom		
Water Temperature (°C)	28.13				
рН (S.U.)	46 8.77				
Salinity (ppt)					
Conductivity (μS/cm)	466				
D.O. (ppm)	# 19. G				
Water Sample Coll	ection				
Sample ID #: Date: Time:					
Depth Sample Collected:Method of Sample Collection:					
# of Sample Bottles: Location of Sample Collection:					
Parameters to be Analyzed:					
COC#:					
Comments	Comments				
Derse & Coulthy stand of SAV					
Derse & Coulty stand of SAV					
Signature: Date: 1/1/1/2					
Field Team Leader:		Date:			

Lake Name:		Client:		
ime: $\frac{/4/0}{}$ Field	d Team:			
Profiles				
Surface	Mid-Depth	Bottom		
29.37				
7.65				
617				
6.00				
ection				
Da	ate:	Time:		
Method of	Sample Collection:			
# of Sample Bottles:Location of Sample Collection:				
ed:				
?	4	//		
	Date:	10		
	Date:	***		
	me:	Surface Mid-Depth 29.37 7.65 Color Date: Location of Sample Collection: ed: Date:		

AMEC, 404 SW 140th Terrace, Newberry, FL 32669

Naples Water Field Forms

Lake ID #: 26 B	Lake Name:	c	lient:	_
Date: 4/4 T	ime: <u>/430</u> Fiel	d Team:		_
Location:	Weather:			
Water Quality Depth	Profiles			٦
Parameter	Surface	Mid-Depth	Bottom	
Water Temperature (°C	27.70			
рН (S.U.)	7.13			
Salinity (ppt)				
Conductivity (µS/cm)	2.54			_
D.O. (ppm)	2.54			
Water Sample Coll	ection			a
Sample ID #:	D	ate:	Time:	
Depth Sample Collected	:Method of	Sample Collection:		
# of Sample Bottles:	Location o	f Sample Collection:		
Parameters to be Analyz	ed:			
coc#:				
Comments				₹
Sampled	@ outfell	structure ins	de fla like,	_
no flow	@ marlole			
Signature: Date:Date:				
Field Team Leader:		Date:		
Lake looks anic) Sot ve (: My pads (Lealthy, her	s cercitors, &	(40%) coverest	slight!

Page _____ of ____

Telephone: 352-332-3318 / Fax: 352-333-6622

Lake ID#: Gordon	Lake Name:	0	ilient:	
Date: 4/5 T	ime: <u>OF45</u> Field	d Team:		
Location:	Weather:			
Water Quality Depth	Profiles	······································		
Parameter	Surface	Mid-Depth	Bottom	
Water Temperature (°C)	23.56			
рН (S.U.)	7.65			
Salinity (ppt)				
Conductivity (µS/cm)	1472			
D.O. (ppm))472 3.96			
Water Sample Coll	ection			
Sample ID #:	Da	ate:	Time:	
Depth Sample Collected	:Method of !	Sample Collection:		
# of Sample Bottles:Location of Sample Collection:				
Parameters to be Analyzed:				
COC#:				
Comments				
since ~	0.10 ind ye	he what	Setze, but	
not floring				
Signature:	<u>/</u>	Date:	15/12	
Field Team Leader:		Date:		

Lake ID #: 14 B	Lake Name:	Cli	ent:	
Date: 4/5 T	Lake Name:	d Team:		
Location:	Weather:			
Water Quality Depth	Profiles			
Parameter	Surface	Mid-Depth	Bottom	
Water Temperature (°C)	27.70			
рН (S.U.)	7.90			
Salinity (ppt)				
Conductivity (μS/cm)	8072			
D.O. (ppm)	4.87			
Water Sample Col	lection			
Sample ID #:	Sample ID #: Time:			
Depth Sample Collected	:Method of	Sample Collection:		
# of Sample Bottles:	Location of	Sample Collection:		
Parameters to be Analyz	zed:			
COC#:		-		
Comments		<u> </u>		
Flowing	- Sampled -	La overf	bu	
Algan not Not a lot of algae, if any bloom				
at 91/	/	<i>.</i>		
Signature:		Date:		
Field Team Leader:		Date:		

Lake ID#: // Pc	Lake Name:		Client:	
Date: 4/5 Ti	Lake Name:	ld Team:		
	Weather:			
Water Quality Depth	Profiles			
Parameter	Surface	Mid-Depth	Bottom	
Water Temperature (°C	26.97			
рН (S.U.)	7.51			
Salinity (ppt)				
Conductivity (µS/cm)	7091			
D.O. (ppm)	4.99			
Water Sample Coll	ection			
Sample ID #:	[Date:	Time:	
Depth Sample Collected:	Method of	f Sample Collection:		
# of Sample Bottles:	Location o	of Sample Collection:		
Parameters to be Analyz	ed:			
COC#:	And the second s	· · · · · · · · · · · · · · · · · · ·		
Comments				
(A)	st Stipped	+ lowery		
	V /			\(\frac{1}{2} \)
				· · · · · ·
Signature		Date:	5/12	
Field Team Leader:		_ Date:		

Lake ID#: 44	Ave Lake Name:	Clier				
Date: 4/5	Date: 4/5 Time: 1000 Field Team:					
	Weather:					
Water Quality Depth	n Profiles					
Parameter	Surface	Mid-Depth	Bottom			
Water Temperature (°C)	74,70					
рН (S.U.)	7,24					
Salinity (ppt)						
Conductivity (µS/cm)	530					
D.O. (ppm)	0.31					
Water Sample Coll	ection					
Sample ID #:	Da	ite:	Time:			
Depth Sample Collected:	Method of S	Sample Collection:				
# of Sample Bottles:Location of Sample Collection:						
Parameters to be Analyzed:						
COC#:						
Comments						
Taker	inside Ve	cl+ issu-	(1 P. 1/1)e			
peol in fact of overflow Syndre. no flow						
@ sample time, rained ~0.10 inch the what John						
Signature:						
Field Team Leader:		Date:				

Lake ID #:	Lake Name:		Client:	
Date: 4/5 Ti	ime: <u>/025</u> Fie	ld Team:		
	Weather:			
Water Quality Depth	Profiles			
Parameter	Surface	Mid-Depth	Bottom	
Water Temperature (°C)	27.30			
рН (S.U.)	7,84			
Salinity (ppt)				
Conductivity (µS/cm)	635			
D.O. (ppm)	3.73			
Water Sample Coll	ection			
Sample ID #:	D	Pate:	Time:	
Depth Sample Collected:	Method of	Sample Collection:		
# of Sample Bottles:Location of Sample Collection:				
Parameters to be Analyz	ed:			
COC#:				
Comments				
green w	ater! proba	y a son	l'redon of	
afgæ Lalgcecide, Sot Vory græn				
Signature:	1/2	Date:	5/12	
Field Team Leader:		_ Date:	·	

	Lake Name: _				
Date: 4/5/12 T	ime: 1045 Fiel	ld Team:			
Location:	Weather:				
Water Quality Depth	Profiles				
Parameter	Surface	Mid-Depth	Bottom		
Water Temperature (°C)	27.29				
рН (S.U.)	7,83				
Salinity (ppt)					
Conductivity (µS/cm)	622				
D.O. (ppm)	4.72				
Water Sample Coll	ection				
Sample ID #:	C	Date:	Time:		
Depth Sample Collected	:Method of	Sample Collection:			
# of Sample Bottles:	# of Sample Bottles: Location of Sample Collection:				
Parameters to be Analyzed:					
COC#:]		
Comments					
water	still grean	1. Le 11/	y just tricking		
Water still grean like 11st just triking. If out cracks in the weit					
, 0	0				
Signature:					
Field Team Leader:		Date:	1 1000		

Lake ID #: // Pum	Lake Name:_	CI	ient:		
Date:T	ime: ///S Fiel	d Team:	ient:		
Location:	Weather:				
Water Quality Depth	Profiles				
Parameter	Surface	Mid-Depth	Bottom		
Water Temperature (°C	25.05				
рН (S.U.)	7.09				
Salinity (ppt)					
Conductivity (μS/cm)	2928 4.52				
D.O. (ppm)	4.52				
Water Sample Coll	ection				
Sample ID #:	D:	ate:	Time:		
Depth Sample Collected	Depth Sample Collected:Method of Sample Collection:				
# of Sample Bottles:Location of Sample Collection:					
Parameters to be Analyzed:					
COC#:					
Comments					
Signature:	Signature:				
Field Team Leader:		Date:			

Lake ID #: SC	Lake Name:		Client:
Date: 4/5 T	ime: Field	d Team:	
Location:	Weather:		
Water Quality Depth	Profiles		
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.95		
рН (S.U.)	8.04		
Salinity (ppt)			
Conductivity (μS/cm)	1634		
D.O. (ppm)	6.91		
Water Sample Col	lection		
Sample ID #:	D	ate:	Time:
Depth Sample Collected	l:Method of	Sample Collection:	
# of Sample Bottles:	Location o	f Sample Collection:	
Parameters to be Analy	zed:		
COC#:			
Comments			
	How @	time.	of sample,
water la	vel Just L	whow we	& overlie
Signature:	-CC	Date:	5/12
Field Team Leader:		_ Date:	

Lake ID #:	Lake Name:	(Client:	
Date:Tim	ie: 8 7415 Field	d Team:		
Location:	Weather:			
Water Quality Depth P	rofiles		1	
Parameter	Surface	Mid-Depth	Bottom	
Water Temperature (°C	76,57			
рН (S.U.)	7.49			
Salinity (ppt)				
Conductivity (μS/cm)	4.35			
D.O. (ppm)	4.35			
Water Sample Collec	tion			
Sample ID #:	D	ate:	Time:	
Depth Sample Collected: Method of Sample Collection:				
# of Sample Bottles: Location of Sample Collection:				
Parameters to be Analyze	d:			
COC#:				
Comments			46	
<u>sampled</u>	By inlet	that rece	ives flow from	
small pand to the E. Small pand not				
Disdang	a fine of	Sample'		
Signature:	10c	Date:	/12	
Field Team Leader:		Date:		

Lake ID #:	Lake Name:		Client:
Date: 4/6 T	ime: <u>08/5</u> Fie	ld Team:	
Location:	Weather:		
Water Quality Depth	Profiles		
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	26.15		
рН (S.U.)	7.64		
Salinity (ppt)			
Conductivity (μS/cm)	707		
D.O. (ppm)	5.8)		
Water Sample Coll	ection		
Sample ID #:		Date:	Time:
Depth Sample Collected	:Method o	f Sample Collection:	
# of Sample Bottles:	Location	of Sample Collection:	
Parameters to be Analy:	zed:		
COC#:			
Comments			
flowing of szap	over onthe	11 51nd	ve e time
	1		
Signature:		Date:	16/12
Field Team Leader:		Date:	

ake ID #: 7B	Lake Name:		Client:
Date: 4/6 Ti	Lake Name:	l Team:	
	Weather:		
Water Quality Depth	Profiles	-	
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	26.67		
рН (S.U.)	8.09		
Salinity (ppt)			
Conductivity (μS/cm)	1321.		
D.O. (ppm)	4,20		
Water Sample Coll	ection		
Sample ID #:	Da	ate:	Time:
Depth Sample Collected	:Method of	Sample Collection:	
# of Sample Bottles:	Location of	Sample Collection: _	
Parameters to be Analyz	ed:		
coc#:			
Comments			
10 1/1	2		
very s	men - good	algae) loom
Signature:	l	Date:	/6/12
Field Team Leader:		Date:	

Lake ID #:	Lake Name:		Client:
Date:	me: <u>0900 </u>	ld Team:	
Location:	Weather:		
Water Quality Depth	Profiles	1	
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27.48		
рН (S.U.)	7.98		
Salinity (ppt)			
Conductivity (μS/cm)	860		
D.O. (ppm)	4.99		
Water Sample Coll	ection		
Sample ID #:	E	Date:	Time:
Depth Sample Collected	:Method of	Sample Collection:	
# of Sample Bottles:	Location o	of Sample Collection:	:
Parameters to be Analyz	ed:		
COC#:			***************************************
Comments			
trickle	of a floi	w going	out of
Comments + ricke He ov	Hear Pig	e. Let	med algae
nore +	, ,		Gazze
Signature:		_ Date:	
Field Team Leader:		Date:	

aké ID #:	Lake Name:		client:
Date: U/6 Tio	me: <u>09/5</u> Field	d Team:	Client:
	Weather:		
Water Quality Depth	Profiles		
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C	26.81 8.24		
pH (S.U.)	8.24		
Salinity (ppt)			
Conductivity (µS/cm)	802 5.44		
D.O. (ppm)	<u> </u>		
Water Sample Coll	ection		
Sample ID #:	D	Pate:	Time:
Depth Sample Collected	l:Method of	Sample Collection:	
# of Sample Bottles:	Location o	of Sample Collection:	
Parameters to be Analy	zed:		
COC#:			
Comments			
minimal	algae, mos	sty fle f	Brows / Filamesta
floaty to	ipe, weAV	is blue	ish, algrecide
of so	me type	prohably	
Signature:		_ Date:	4/6/12
			/ /
Field Team Leader:		Date:	

Lake ID #: Alley	Lake Name:		Client:
Date: 4/6 T	ime: 1000 Fiel	d Team:	
/	Weather:		
Water Quality Depth	Profiles		
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C	20 00		
рН (S.U.)	\$ 8.28		
Salinity (ppt)			
Conductivity (µS/cm)	47		
D.O. (ppm)	7.12		
Water Sample Coll	ection		
Sample ID #:	D	ate:	Tíme:
Depth Sample Collected	:Method of	Sample Collection:	
# of Sample Bottles:	Location o	f Sample Collection: _	
Parameters to be Analyz	red:		,
coc#:			
Comments],		
J USA (eshed!		
	1		
Signature:		Date:	/6/12
Field Team Leader:		Date:	

ake ID#: DB	Lake Name	: cı	ient:
Date: 4/6 Ti	ime: <u>0945 </u> F	ield Team:	ient:
Water Quality Depth	Profiles	T	
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C	26.30		
pH (S.U.)	7.73		
Salinity (ppt)			
Conductivity (µS/cm)	3,30		
D.O. (ppm)	3,30		
Water Sample Coll	lection		
Sample ID #:		Date:	Time:
		of Sample Collection:	
#of Sample Bottles:	Locatio	n of Sample Collection:	
Parameters to be Analy:	zed:		
coc#:			
Comments			
		_	
Signature:		Date:	
Field Team Leader:		Date:	



Naples Stormwater Sampling YSI Calibration Log

#MACTEC

Initial Calibration

Post Verification

T. 12 Time: T. 12 Time: T. 12 Time: T. 13 Time: T. 13 Time: T. 14 Time: Time: Performed Paramet Meter Paramet Paramet Time: Time: T. 12 Time: Performed Paramet Time: T. 13 Time: Performed Paramet Time: T. 15 Time: Performed Paramet Time: Time: Performed Paramet Time: Time: Time: Performed Paramet Time: Time: Time: Time: Performed Paramet Time: Time: Time: Time: Time: Time: Performed Paramet Time: Time: Time: Performed Time: Time: Time: Paramet Time: Time: Time: Time: Paramet Time: 16	5				S	17	11	~	6		
Initial Calibration	Date: 7/09	Time: 184	Performed By:			Parameter	7	5	Conductivity	2	3
Initial Calibration											
Standard Units Reading 1.00			1		Calibrated Meter	Reading	9.99	7.00	8974	100,1	
N N				ation	Initial Meter	Reading	3.97	96.9		7.88	
N N N N N N N N N N N N N N N N N N N	1	1	Į	Calibr		Units			SW		
	2/17	72	7 12	Initia		Standard	10.00	7.00	h±68	965at	
2	Date: 7/0	Time: 112	Performed By:				223		Conductivity		3

	Post	Post Verification	ation	
			Initial Meter	Calibrated Meter
Parameter	Standard	Units	Reading	Reading
7	4.00		3.93	4.00
	7.00		7.08	7.00
Conductivity	24 HZ78	SW	9022	5248
2	+590		105.7	1001
3				

1
of Fred City

Comments:

Prepared by Signature:

Field Team leader:

Naples Water and Sediment Field Forms



	Lake Name:		
Date: 7/05/12 T	ime:Fiel	d Team: TOM Ba	tes
Location: Lantern L	n RumpSWeather:	Duny	
Water Quality Depth	Profiles)	
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	29.98		
рН (S.U.)	7.51		v v
Salinity (ppt)			
Conductivity (μS/cm)	8755		
D.O. (ppm)	4.63 (62.5%)		
Water Sample Coll	ection		
Sample ID #:	PUMP DO	ate: 7/05/12	Time: 1145
Depth Sample Collected	:Method of	Sample Collection:	possiler Poly
# of Sample Bottles:	Location of	f Sample Collection:	74
Parameters to be Analyz			
COC#:			
Comments	3		
Pump st	arted running	during samp	sle
collections	after field	measurements	
	7		
Signature:	2 Polo	Date: 7/05/1	12
Field Team Leader:		Date:	

Naples Water and Sediment Field Forms



Lake ID #: //- +	Lake Name: _	Clier	nt:
	Time: 1230 Fiel		
Location: Broad St. 7	Weather: M	ostly sunny	
Water Quality Depth	Profiles	7	
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 Coll	ection		
Sample ID #:// 5	PUNP D	ate: 7/05/12	Time: 1230
Depth Sample Collected	PUNP DE	Sample Collection:	Bailer
	Location o		
Parameters to be Analyz			
COC#:			
Comments			
Pump die	d not run wh	de on-site	•
	7		
Signature:	D. Esta	Date: 7/05/12	
Field Team Leader:		Date:	

Naples Water and Sediment Field Forms



	Pump Lake Name:		
Date: 7/05/2 1	Time: <u>/320</u> Field	d Team: Tom 2	BAES
Location: Public Woo	des Pompsweather: Sun	my then clouding	up-approaching rai
Water Quality Depth	n Profiles	Vo precipitatio	y while on-site
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	28.55		
рН (S.U.)	7.14		
Salinity (ppt)			
Conductivity (μS/cm)	7072		
D.O. (ppm)	3.96 (51.1%)		
Water Sample Col			
Sample ID #:	PW PUMP DA	ate: 7/05/12	Time: 1340
Depth Sample Collected	PW PUUP Da	Sample Collection:	possible Poly Bailer
# of Sample Bottles:	Location of	Sample Collection:	-
Parameters to be Analyz			
COC#:			
Comments			
Pump did	not run while	sampling or	collecting
	Gate was lock		
We do have	key, it is the s	come. They cha	nged to matching
Signature:	D. Tela		Tocks
Field Team Leader:		Date:	



FIELD EQUIPMENT CALIBRATION RECORDS

Project Name:	(2002/2020)	م						
			%	PROJECT INFORMATION	ATION			
Project & Task #:			Calit	Calibration Date:	2/25			
)	CALIBRATION DATA	4TA			
Instrument Description	ID # or Serial #	Parameter Description	Time	Standard Value	Standard Reference #	Reading	Units	Comments
YSI 566 MULTIMETER		00		Sat. air/water	NA	5.201	%, mg/L	
		Hd		4.0			Hd	
		Hd		7.0		1,0	Hd	
		Hd		10.0		10.03	Hd	
		SPECIFIC COND.					µS/cm ^c	
		ORP					mV	
YSI 566 MULTIMETER		00		Sat. air/water	NA		%, mg/L	
		Hd		4.0			Hd	
		Hd		7.0			Hd	
		Hd		10.0			Hd	
		SPECIFIC COND.					µS/cm°	
		ORP					μV	
STANDARDS:	Reference #			Manuf./ Batch #	Batch #			Exp. Date
		-						
			SIGN	SIGNATURES (Signed Initials)	1 Initials)			
Calibrated by:			Date:		Reviewed by:			Date:

Resta

FIELD EQUIPMENT CALIBRATION RECORDS

Project Name:	605 120	7020	84	PROJECT INFORMATION	ATION			
Project & Task #:			Calik	Calibration Date:	15%	12		
)	CALIBRATION DAFA	4 f A '			
Instrument Description	ID # or Serial #	Parameter Description	Time	Standard Value	Standard Reference #	Reading	Units	Comments
YSI 566 MULTIMETER		DO	009/	Sat. air/water	NA	2.86	%, mg/L	
		Hd	1600	4.0			Hd	
		Hd	009/	7.0	5,7	6.86	Hd	
		Hd	1600	10.0	0.61	10.0/	Hd	
		SPECIFIC COND.					µS/cm°	
		ORP					μV	
YSI 566 MULTIMETER		00		Sat. air/water	AN		%, mg/L	
		Hd		4.0			Hd	
		Hd		2,0			hd	
		Hd		10,0			Hd	
		SPECIFIC COND.					µS/cm°	
		ORP					mV	
STANDARDS:	Reference #			Manuf./ Batch #	Batch #			Exp. Date
					N. B. Waller			
Calibrated hv.			Date:	SIGNALUKES (Signed Initials) Reviewed	Reviewed by:			Date:
Callblated by.			2					

Lake ID #: 1 A 3	Lake Name:	Clien	t:	
Date: 9/25 T	ime: 9:30 Fie	Clien	B	
		•		
Water Quality Depth	ı Profiles			
Parameter	Surface	Mid-Depth	Bottom	
Water Temperature (°C	28.46			
рН (S.U.)	6.84			
Salinity (ppt)				
Conductivity (μS/cm)	411			
D.O. (ppm)	-44 .85			
Water Sample Collection				
Sample ID #: Date: Time:				
		Sample Collection:		
# of Sample Bottles:	Location o	f Sample Collection:		
# of Sample Bottles: Location of Sample Collection: Parameters to be Analyzed:				
COC#:		4		
Comments				
Bo no f	Tout			
	<i>,</i>			
Signature:	L	Date: 7/25		
Field Team Leader:		Date:		

Naples Water Field Forms

Lake ID #: 13	Lake Name:	Clie	nt:		
Date: 0/25 Time: 9:15 Field Team:					
Location: Weather:					
Water Quality Depth	Profiles		77.41		
Parameter	Surface	Mid-Depth	Bottom		
Water Temperature (°C	27.33				
рН (S.U.)	7.31				
Salinity (ppt)	E				
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 Sa	imple Collection:			
Parameters to be Analyz	ed:				
COC#:					
Comments					
sampled	50' € of	weir on :	S bal to		
sampled 50' E of veir on 5 bak to avail weed influence					
Signature:	L Da	nte: 9/25/	10		
Field Team Leader:	Da	ate:			

Page _____ of

Lake ID #: 2B	Lake Name:	Clic	ent:		
Date: 1/25 Time: 10:30 Field Team:					
Location:	Weather:				
Water Quality Depth	Profiles				
Parameter	Surface	Mid-Depth	Bottom		
Water Temperature (°C)	27.54				
рН (S.U.)	7.29				
Salinity (ppt)					
Conductivity (µS/cm)	1718				
D.O. (ppm)	4.52				
Water Sample Collection					
Sample ID #:	Da ⁻	te:	Time:		
Depth Sample Collected:Method of Sample Collection:					
# of Sample Bottles:	Location of	Sample Collection:			
Parameters to be Analyz	zed:				
COC#:					
Comments					
Dow the	ough new la	t not ove	es lots		
flow through new but not over loss of algae mats a surface					
Signature: Date: 1/25					
Field Team Leader:		Date:			

Lake ID #: 3B	Lake Name:	Client	::			
Date: 1/25 Time: // Field Team:						
Location: Weather:						
Water Quality Depth Profiles						
Parameter	Surface	Mid-Depth	Bottom			
Water Temperature (°C	27.35					
рН (S.U.)	7,16					
Salinity (ppt)						
Conductivity (µS/cm)	871					
D.O. (ppm)	4,74					
Water Sample Collection						
Sample ID #: Date: Time:						
Depth Sample Collected:Method of Sample Collection:						
# of Sample Bottles:	Location of S	ample Collection:				
Parameters to be Analyz	ed:					
COC#:						
Comments						
flowing @ time of saple						
1, out, or						
Signature: Date: 5/25						
Field Team Leader:		Pate:				

Lake ID #:	Lake Name:	Clie	ent:		
Date: <u>9/25</u> Time: //:/5 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 Analyz	ed:				
COC#:					
Comments					
flowing, recently trimmed the pepper not too much visible algae last great Rictime					
too much visible algae (not green this tree)					
Signature:	ll	Date:	25/12		
Field Team Leader:		Date:			

Lake ID #:	Lake Name:	Clie	ent:			
Date:						
Location: Weather:						
Water Quality Depth	Profiles	T				
Parameter	Surface	Mid-Depth	Bottom			
Water Temperature (°C	28.66					
рН (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 o	f Sample Collection:				
Parameters to be Analyz	zed:					
COC#:						
Comments						
Lut no visible algal bloom. Ducks in						
yord near outflow (see picture)						
Signature: Date: 9/25						
Field Team Leader:		Date:				

Lake ID #: 16B	Lake Name:		Client:			
Date: 4/25 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)	143					
Water Sample Collection						
Sample ID #: Time:						
Depth Sample Collected:Method of Sample Collection:						
# of Sample Bottles:	Location of	Sample Collection:				
Parameters to be Analyz	ed:					
COC#:						
Comments						
Jots of ducks in vicinity (see photos)						
Signature: Date: 5/25						
Field Team Leader:		Date:				

Lake ID #:	Lake Name:		Client:			
Lake ID #: Client: Client: Client: Date: Time: I2 ! 0 D Field Team: Field Team: Client: Client:						
Location: Weather:						
Water Quality Depth	Profiles					
Parameter	Surface	Mid-Depth	Bottom			
Water Temperature (°C)	28.33					
рН (S.U.)	7.61					
Salinity (ppt)	\$					
Conductivity (µS/cm)	534					
D.O. (ppm)	8.04					
Water Sample Collection						
Sample ID #: Time:						
Depth Sample Collected:Method of Sample Collection:						
# of Sample Bottles:	Location of	Sample Collection:				
Parameters to be Analyz	ed:					
COC#:						
Comments						
Water 5/3/14 green & cloud, flowing @ zine of sample, large stand of Cathill in hout						
ot avelle	nalsala	(HU.1)	sec DO)			
Signature:	le	Date:	-5/12			
Field Team Leader:		Date:				

Lake ID #:	Lake Name: _		Client:			
Lake ID #: 65 Lake Name: Client: Date: 4/25 Time: 12:45 Field Team:						
Location: Weather:						
Water Quality Depth Profiles						
Parameter	Surface	Mid-Depth	Bottom			
Water Temperature (°C	28,19					
рН (S.U.)	7.15					
Salinity (ppt)						
Conductivity (μS/cm)	(4, 47					
D.O. (ppm)	14.47					
Water Sample Collection						
Sample ID #:	D	ate:	Time:			
Depth Sample Collected:Method of Sample Collection:						
# of Sample Bottles:	Location o	f Sample Collection:				
Parameters to be Analyz	ed:					
COC#:						
Comments						
Slowin Har Rough V- noted, no						
Slowly street Rough V-noted, no Visible alsoe bloom						
Signature: Date:						
Field Team Leader: Date:						

Lake ID #: 2013	Lake Name:	CI	ient:			
Lake ID #: 2013 Lake Name:						
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)	437		·			
D.O. (ppm)	4.23					
Water Sample Collection						
Sample ID #: Date: Time:						
Depth Sample Collected: Method of Sample Collection:						
# of Sample Bottles:	Location o	f Sample Collection:				
Parameters to be Analy:	zed:					
coc#:	- Company					
Comments						
green - a algae bleon, flouring						
79						
Signature:		Date:	125			
Field Team Leader: Date:						

Lake ID #: ZIB	Lake Name:	Cl	ient:		
Date: 9/25 Time: 1330 Field Team:					
Location:	Weather:				
Water Quality Depth	Profiles				
Parameter	Surface	Mid-Depth	Bottom		
Water Temperature (°C)	28.54				
рН (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 Analyz	zed:				
COC#:					
Comments		•			
no flow	, where bel	as outell	Stevens, Dudes,		
agre dry the soffice literal zone, no visible					
Signature:	C	Date: 9/23			
Field Team Leader:		Date:			

Lake ID #: 22A 3 Lake Name: Client:					
Date: <u>\$\frac{900}{25}\$</u> Time: <u>\frac{400}{900}</u> Field Team:					
	Weather:				
Water Quality Depth	Profiles				
Parameter	Surface	Mid-Depth	Bottom		
Water Temperature (°C)	28.05				
рН (S.U.)	@ G.96				
Salinity (ppt)					
Conductivity (μS/cm)	506				
D.O. (ppm)	,84				
Water Sample Coll	ection				
Sample ID #:	Da	ate:	Time:		
Depth Sample Collected	:Method of	Sample Collection:	prop		
	Location of		~ v		
Parameters to be Analyz	zed:				
COC#:					
Comments					
ductured, not mud algre, no flow					
	,				
	/°				
Signature:	CC	Date: 9/25			
Field Team Leader:		Date:			

Lake ID #: 2213	Lake Name:	(Client:
Date: <u>9/25</u> Ti	ime: <u>/430</u> Fiel	d Team:	
Location:	Weather:		
Water Quality Depth	Profiles		
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C			
рН (S.U.)	至 6.93		
Salinity (ppt)			
Conductivity (µS/cm)	589 2.02		
D.O. (ppm)	2.07		
Water Sample Coll	ection		
Sample ID #:		Date:	Time:
Depth Sample Collected	:Method of	Sample Collection:	
# of Sample Bottles:	Location o	of Sample Collection:	
Parameters to be Analyz	zed:		
COC#:			
Comments			
just de	rased vegita	An surous	ding outlas
Structure	flowing, as	o visible	Stoon
Signature:	20	Date: 9/2	5
Field Team Leader:		Date:	

Lake ID #: PW - Pur	Lake Name:	Clie	nt:
Date: <u>9/25</u> Ti	me: <u>/445</u> Fie	ld Team:	
Location:	Weather:		
Water Quality Depth	Profiles		
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C	28.09		
рН (S.U.)	7.19		
Salinity (ppt)			
Conductivity (µS/cm)	1486		
D.O. (ppm)	4.56		
Water Sample Colle	ection	1000	
Sample ID #:		Date:	Time:
Depth Sample Collected:	Method o	f Sample Collection:	
# of Sample Bottles:	Location	of Sample Collection:	
Parameters to be Analyz	ed:		
COC#:			
Comments			
no flor	J could 1	hear one p	pe disdaying
into Sum	g upstreen	V	·
	<i>V</i>		
Signature:	ll	_ Date:	
Field Team Leader:		Date:	

ake ID#: Leuse	Lake Name:	Clie	ent:
Date: <u>9/25</u> Ti	me: <u>/500</u> Fie	ld Team:	ent:
ocation:	Weather:		
Water Quality Depth			T
Parameter		Mid-Depth	Bottom
Water Temperature (°C	30.37		
pH (S.U.)	69		
Salinity (ppt)			
Conductivity (µS/cm)	1045		
D.O. (ppm)	2.45		
Water Sample Coll	ection		
Sample ID #:		Date:	Time:
Depth Sample Collected	:Method o	f Sample Collection:	
# of Sample Bottles:	Location	of Sample Collection:	
Parameters to be Analy:	zed:		
COC#:			
Comments			
-take	rom spicket 1	@ & phot	
Signature:		Date:	
Field Team Leader:		Date:	

Lake ID #: 7 3	Lake Name:	(lient:
Date: 9/26	ime: 770 Fie	eld Team:	
Location:	Weather:		
Water Quality Depth	Profiles		
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	27,73		
рН (S.U.)	8-44		
Salinity (ppt)			
Conductivity (μS/cm)	1240		
D.O. (ppm)	8. 79		
Water Sample Coll	ection		
Sample ID #:	[Date:	Time:
Depth Sample Collected	:Method o	f Sample Collection:	
# of Sample Bottles:	Location (of Sample Collection:	
 Parameters to be Analyz	ed:		
COC#:			
Comments			
discharge	located 1	@ WW si	de of plake
sample to	cha by cas	sting bile	115-20/140
the late	, shallow @	Shore S	of deeper in middle
Signature:	ll	Date: 9/26	,
Field Team Leader:	····	Date:	

Lake ID #:	Lake Name:	Clien	t:	_	
Date: 9/26 T	ime: 800 Fiel			-	
Location:	Weather:			_	
Water Quality Depth	Profiles			ส	
Parameter	Surface	Mid-Depth	Bottom		
Water Temperature (°C	27.51				
рН (S.U.)	7.22				
Salinity (ppt)					
Conductivity (µS/cm)	660				
D.O. (ppm)	3,75 4.22				
Water Sample Coll	ection			ត	
Sample ID #:	Da	ate:	Time:		
Depth Sample Collected	:Method of	Sample Collection:			
# of Sample Bottles:	Location of	Sample Collection:			
Parameters to be Analyz	red:				
coc#:					
Comments					
Small flo	ow, discharge	Strudere Li	ad 121 of		
algre met/		hat it it.	scripted from		
Tisclarge	structure.	2 floody isk	ds, 100	4	vy vove
Signature:	Cl	Date: 3/26	· · · · · · · · · · · · · · · · · · ·	3	callta
Field Team Leader:		Date:			

Lake ID #:	Lake Name:		Client:			
Lake ID #:						
Location:	Weather:	consiste di Mala e Color				
Water Quality Depth	Profiles	1100000				
Parameter	Surface	Mid-Depth	Bottom			
Water Temperature (°C)	2-1.1					
pH (S.U.)	7.32					
Salinity (ppt)						
Conductivity (μS/cm)	651					
D.O. (ppm)	4.51					
Water Sample Colle	ection					
Sample ID #:	D	ate:	Time:			
Depth Sample Collected:	Method of	Sample Collection:				
# of Sample Bottles:	Location o	f Sample Collection:				
Parameters to be Analyze	ed:					
COC#:						
Comments						
no visble	flar, Lower	ie lage	algal met			
blocking).	scherge st.	udie, 5	algal met			
-10° f	ro- shore	Miles	<i>*</i>			
Signature:	2	Date:	26			
Field Team Leader:		Date:				

Lake ID #: 10B	Lake Name:	Clie	nt:	_
Date: 9/26	Lake Name:Lake Name:Field	l Team:		_
	Weather:			
Water Quality Deptl				า
Parameter	Surface	Mid-Depth	Bottom	
Water Temperature (°C				
рН (S.U.)	6.81			
Salinity (ppt)	,			
Conductivity (µS/cm)	9/39			
D.O. (ppm)	6.34			
Water Sample Col	lection			า
Sample ID #:	Da	te:	Time:	
Depth Sample Collected	l:Method of S	sample Collection:		
# of Sample Bottles:	Location of	Sample Collection:		
Parameters to be Analy	zed:			
COC#:				
Comments		4		3 °%
casted be	allesc. uder	discharging	a time	82
of samp	e, but mou	sed upstream	- a Lit	事。
alm the	S bak.	to avoid 6	fulf Infloence	
	2/1	9/2	/	
Signature:		Date:	<u>"</u> /	
Field Team Leader:		Date:		139
			4 2	1155
			5/90 PZ	3/9345
			None and the second	ORIGINATION OF THE PARTY OF THE

Lake ID #: //B	Lake Name:	Clie	ent:	_
Date: 0/26 T	ime: <u>4164 930</u> Fiel	d Team:		_
Location:	Weather:			_
Water Quality Depth	Profiles		<u> </u>	-
Parameter	Surface	Mid-Depth	Bottom	
Water Temperature (°C)	27.43			
рН (S.U.)	2.88			
Salinity (ppt)				
Conductivity (µS/cm)	533			
D.O. (ppm)	2.41			
Water Sample Col	lection			=
Sample ID #:	· D	ate:	Time:	
Depth Sample Collected	:Method of	Sample Collection:		
# of Sample Bottles:	Location o	f Sample Collection:		_
Parameters to be Analyz	zed:	·		_
COC#:				
Comments				= CI CI CONS
1 coctor	1 1 Fin Es	ist late. Flow	1-4.3	FLFI cover 5
cerctors in	& I FI in Ed Sp. Loke, no	F1. Elsal mor	ts In Sp. leke,	Con 11 (c)
no bloom	•			
Signature:		Date:		
Field Team Leader:		Date:		

Lake ID #: // - P.	Lake Name:		ent:
Date: 9/26/12 T	ime: <u>545</u> Fi	eld Team:	
Location:	Weather:		
Water Quality Depth	Profiles		
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C	27.72		
рН (S.U.)	6.51		
Salinity (ppt)			
Conductivity (µS/cm)	1331		
D.O. (ppm)	6.01		
Water Sample Coll	ection		
Sample ID #:		Date:	Time:
Depth Sample Collected:	:Method c	of Sample Collection:	
# of Sample Bottles:	Location	of Sample Collection:	
Parameters to be Analyz	ed:		
COC#:			
Comments			
flowing,	work done	upstream 8	decrete ing
Into swa	le ~ 1/2 m	De up Broad	S_{t}
Signature:		Date:	
Field Team Leader:		Date:	

Lake ID #:	Lake Name:	Clic	ent:	
Date: 9/26 T	ime: <u>/045</u> Field	l Team:		
Location:	Weather:			
Water Quality Depth	Profiles			<u> </u>
Parameter	Surface	Mid-Depth	Bottom	
Water Temperature (°C)				
рН (S.U.)	6.13			_
Salinity (ppt)		againg the contract of the con		
Conductivity (μS/cm)	766			
D.O. (ppm)	色 4.12			
Water Sample Col	lection			
Sample ID #:	Da	ate:	Time:	
Depth Sample Collected	:Method of	Sample Collection:		
# of Sample Bottles:	Location of	Sample Collection:		
Parameters to be Analy:	zed:			
COC#:				
Comments				
+ lowing				
And the second s				
				_ ^
Signature:		Date:		Ň
Field Team Leader:	and the same state of the same	Date:		
				Styry, if
				1 3

			lient:	-
Date: <u> </u>	ime: <u>// 0 ^U</u> Fie	ld Team:		-
				_
Water Quality Depth	Profiles			า
Parameter	Surface	Mid-Depth	Bottom	
Water Temperature (°C)	27.58			
pH (S.U.)	5,81			
Salinity (ppt)				-
Conductivity (µS/cm)	7529			-
D.O. (ppm)	7.73			
Water Sample Coll	ection			7
Sample ID #:	[Pate:	Time:	-
Depth Sample Collected	:Method o	f Sample Collection:		-
# of Sample Bottles:	Location o	of Sample Collection:		-
Parameters to be Analyz	zed:			•
COC#:				
Comments				= FI Z
Thomas, al	Ise (more o	way Hange	votico (ste), Dock	cares 4
) FI near	disduce	•		[' <i>f</i>
				consta 4
Signature:	r	_ Date: 9 / 7 6		FIZ Cort sile
Field Team Leader:		Date:		type 5 condition 5
andeco				condition >
41 800-	000			

Lake ID #: 19-10	Lake Name:		Client:
Date: 1/26 T	ime: 1811/5 Fiel	d Team:	Client:
Location:	Weather:		
Water Quality Depth	Profiles		
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C	27.75		
рН (S.U.)	7.15		
Salinity (ppt)			
Conductivity (μS/cm)	30706	<u></u>	
D.O. (ppm)	4.15		
Water Sample Coll	ection		
Sample ID #:	D:	ate:	Time:
Depth Sample Collected	:Method of	Sample Collection:	
# of Sample Bottles:	Location of	f Sample Collection:	
Parameters to be Analyz	ed:		
COC#:			
Comments		1	
Pump .	traed or	LLle	say /y
	9		
Signature:		Date:	9/16
Field Team Leader:		Date:	

Lake ID#: <u>603</u>	Lake Name:	(Client:
Date: 5/26 T	ime: <u>//</u> 45Fie	ld Team:	
	Weather:		
Water Quality Depth	Profiles		
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C	27,72		
pH (S.U.)	2007.14		
Salinity (ppt)			
Conductivity (µS/cm)	8730		
D.O. (ppm)	4.37		
Water Sample Col	ection		
Sample ID #:		Pate:	Time:
Depth Sample Collected	:Method of	Sample Collection:	
# of Sample Bottles:	Location o	of Sample Collection:	
Parameters to be Analyz	zed:		
COC#:	The state of the s		
Comments			
372. 7-311	oige (arasia) file	oring, not	- Lighton.
Sample to	che from	casted La	ler no visible
algae,	ealthy 1. Ho	rel some	
Signature:	L	Date: 5/2	6
Field Team Leader:		_ Date:	

Lake ID#: Rev Se	Lake Name:	c	lient:
Date: 9/26 T	ime: <u>/23</u> 0Fi	eld Team:	
Water Quality Depth	Profiles	- 11 - 1	
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C			
рН (S.U.)	6.74		
Salinity (ppt)			
Conductivity (μS/cm)	6.30		
D.O. (ppm)	6.90		
Water Sample Coll	ection		
Sample ID #:		Date:	Time:
Depth Sample Collected	:Method o	of Sample Collection:	
# of Sample Bottles:	Location	of Sample Collection:	
Parameters to be Analyz	zed:		
Comments			
Spiker	on Gordon C	rive ust	5 of 3700.
Spidet =	a W side	of St.	5 of 3700.
Signature:	d	Date:	126
Field Team Leader:		Date:	, <u>,</u>

Lake ID #: 241	Lake Name:	Clien	t:
Date: <u>5/26</u> Ti	me: <u>1245</u> Field	Team:	
Location:	Weather:		
Water Quality Depth	Profiles		T 1
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C	27.99		
рН (S.U.)	8.07		
Salinity (ppt)			
Conductivity (μS/cm)	1293		
D.O. (ppm)	4.76		
Water Sample Colle	ection		
Sample ID #:	Dat	te:	_Time:
Depth Sample Collected:	Method of S	ample Collection:	
# of Sample Bottles:	Location of S	Sample Collection:	
Parameters to be Analyz	ed:		
COC#:			
Comments			
flowing @	> time it s	ample. lots	of birds.
Signature:	le	Date: 7/2	<u>(</u>
Field Team Leader:		/ Date:	

Lake ID#: ZJL A	<u>/e 3</u> Lake Name:	Clie	nt:
Date:	ime: <u>/300</u> Field	d Team:	
	Weather:		
Water Quality Depth	Profiles		
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C	27.08		
рН (S.U.)	6.92		
Salinity (ppt)			
Conductivity (µS/cm)	653		
D.O. (ppm)	Del 8 (14)		·
Water Sample Col	ection		
Sample ID #:	Da	ite:	_Time:
Depth Sample Collected	:Method of S	Sample Collection:	
# of Sample Bottles:	Location of	Sample Collection:	
Parameters to be Analyz	ed:		
COC#:			
Comments			
GBJ Ver	, small flow	, sampled i	I pump
Signature:	De	Date: 9/2	6
Field Team Leader:		Date:	

Lake ID #: 26 B	Lake Name:	Clien	t:
Date: 9/27 T	ime: <u>0730</u> Field	d Team:	
Location:	Weather:		
Water Quality Depth	Profiles		T
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)			
рН (S.U.)	- Prope	methoda	
Salinity (ppt)			
Conductivity (µS/cm)	536		
D.O. (ppm)	1.19		
Water Sample Coll	ection		
Sample ID #:	Da	ate:	Time:
Depth Sample Collected	:Method of S	Sample Collection:	
# of Sample Bottles:	Location of	Sample Collection:	
Parameters to be Analyz	ed:		
COC#:			
Comments			
2 th probe	stopped wo	Jein. White	Howly.
Signature:	2	Date: 9/27	
Field Team Leader:		Date:	





Lake ID #: 14-7	DUMP Lake Name:	Clie	nt:
Date: 12/6/12 T	ime: <u>/0/3</u> Fiel	d Team: 10 M Z	ates
Location: Lantern	Ln Weather: 40	w 70's part	ly sunny
Water Quality Depth	Profiles		
			a lynasy Nile
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 Coll	ection		-
Sample ID #:	Di Method of	ate: 12/6/12	Time: 10/5
Depth Sample Collected:	: Method of	Sample Collection: Disp	osable Poly Bailer
# of Sample Bottles:	Location of	f Sample Collection:	
Parameters to be Analyz	ed:		
COC#:			
Comments			
Pump jus	t finished ru	inning	
Signature:	Olale	Date: 2/6/12	2
Field Team Leader:		Date:	



Lake ID #: 11- PC	Lake Name:	Clie	nt:
Date: 12/6/12 1	ime: <u>//03</u> Field	d Team: T. Bail	es services
Location: Broad St	- Peny Weather: 1	lid 70's , Par	thy cloudy
Water Quality Depth	Profiles		
and the second			
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 Col	lection		
Sample ID #:	DUMP Da	ite: 12/6/12	Time: 10:15
Depth Sample Collected	DUMP Da	Sample Collection: Dispo	unde Poly Bailer
# of Sample Bottles:	Location of	Sample Collection:	
Parameters to be Analyz	red:		
COC#:			
Comments			
Pem	p alid not ru	in while at	- this
Sc	te.		
	7		
Signature:	Diffel	Date: 12/6/	12
Field Team Leader:		Date:	



Lake ID#: PW - T	Lake Name:	Clie	
Date: 12/6/12 T	Time: $12:35$ Field backs Weather: 7	d Team:	
Location: Public a	brks Weather: 7	270 Partly	cloudy
Water Quality Depth			
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 Coll	ection		
Sample ID #: Pw-	PUMP D	ate: 12/6/12	Time: 12:45
Depth Sample Collected	: Method of	Sample Collection:	10 mm
# of Sample Bottles:	Location of	f Sample Collection:	
Parameters to be Analyz	ed:		
COC#:			
Comments			
	1		
1/16	of Dealer	Date: 12(6(1)	2
Signature:		Date:	
Field Team Leader:		Date:	



Lake ID#: REUSE	Lake Name:	Clien	nt:
Date: 12/6/12 1	Time: <u>/420</u> Fiel	d Team: T- Bate	
Location: Plant	Weather:	Os Fortly sun	ny
Water Quality Depth			J
Parameter	Surface	Mid-Depth	Bottom
Water Temperature (°C)	25.59		
pH (S.U.)	6.97		
Salinity (ppt)			
Conductivity (μS/cm)			49
D.O. (ppm)	7.96 (97.7	26)	
Water Sample Col	lection		
Sample ID #: REUS	E3 D	ate: 12/6/12	Time: 1425
Depth Sample Collected	: Method of	Sample Collection: DIR	EET
# of Sample Bottles:	Location o	f Sample Collection:	
Parameters to be Analyz	red:		
COC#:			
Comments			
Sampled	middle value	(#92) on	the right
	sink. Water	-	
	ar She was s		
Signature:	D. Balu	Date: (2/6/12	2
Field Team Leader:		Date:	

Telephone: 352-332-3318 / Fax: 352-333-6622

City of Naples

Initial Calibration

Date: 12/6/12

Time: 0945

Performed By:

Post Verification

Date:

Time: (7:00 Performed By:

	Initia	Initial Calibration	ation		
				Calibrated	
			Initial Meter	Meter	
Parameter	Standard	Units	Reading	Reading	Parame
12	700	PIS	707	7.00	
五	4.008 Std	Pts	3.94	4.00	표
	10.00	175	9.93	9.99	
Conductivity	1413		1200	1408	Conducti
2	Sat	%	136.6	100.4	2
3					3

*	Post	Post Verification	ation	
				Calibrated
		×	Initial Meter	Meter
Parameter	Standard	Units	Reading	Reading
	h		348	
Hd	Ł		56.9	
	10		96.6	
Conductivity	5111		1703	7
2				
3				

Meter had shot down before post verification

Comments:

Prepared by Signature:

Field Team leader: