



Southwest Florida Water Management District

Contract TWA 15TW-43

SEDIMENT ASSESSMENT REPORT

Coastal Rivers:

Homosassa, Chassahowitzka,
and Weeki Wachee

March 2016

SEDIMENT ASSESSMENT REPORT

Coastal Rivers:

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Weeki Wachee



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Our Ref.:

06562004.D003

Date:

March 2016

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1 EXECUTIVE SUMMARY

As part of continuing efforts of the Southwest Florida Water Management District (District) to protect waters of the State, Arcadis U.S., Inc. (Arcadis) was requested to conduct an assessment of sediment and near-sediment character in three spring-fed coastal rivers; Chassahowitzka, Homosassa, and Weeki Wachee. Spring and River velocity, discharge and distribution of aquatic vegetation are fairly well known in these rivers, but sediment type and distribution are not yet characterized throughout their reach, and therefore resulting or related sediment dynamics are not yet understood.

This study provides a preliminary overview of several aspects of river character: sediment thickness, sediment lithology, presence and level of several chemical parameters in sediment, surface water, and pore water (all within the context of longitudinal distribution). The results of this study can serve to provide support to several ongoing project assessments such as submerged aquatic vegetation (SAV) and macroinvertebrates, but also provides initial inference on next steps for additional assessment that could yield the most useful information to the District.

In general, sediments in all three rivers consist primarily of fine sands to silty fine sands; all with a small percentage of fine-grained material, but each with its own longitudinal distribution. The results of chemical analysis of metals, inorganics, and nutrients indicate that these rivers have differing character. The driving influences of these chemical distributions are not considered as part of this study, but are presented here as a partial basis by which steps can be taken to better understand influential factors. Aqueous and sediment chemical dynamics in specific sampling locations may allude to possible areas of higher flux contributing to the eco/hydrodynamics of that river. If these areas are similar to those showing impacts in other studies, such as SAV, then more in-depth assessment may be warranted as a priority in those areas.

Report information herein is combined for introduction and general sampling description (Sections 1 through 3), but sections describing results in each river (Sections 4 through 6) are designed to stand alone for ease in using this body of data in support of other District efforts.

2 BACKGROUND

The District is one of five water management districts charged with protecting and managing the State of Florida's water resources. As part of the District's water resources monitoring efforts, SAV and macroinvertebrate studies have been conducted in coastal and spring-fed rivers for several years. The goal of this study is to provide a preliminary assessment of sediments in three coastal rivers; to compliment SAV and macroinvertebrate assessments underway, and support future restoration actions. A sediment assessment was conducted along the main channel of the Homosassa, Chassahowitzka, and Weeki Wachee rivers, from approximately the headsprings (where accessible) to the beginning of the salt marsh.

Each river was evaluated at 20 transect locations that traverse the width of the river. Along these transects, sediments were assessed with respect to general physical and chemical characteristics to better understand their distribution and estimated the total sediment volume in each river. Surface water collected above the mudline and shallow sediment pore water were also analyzed to provide supporting information.

The District's goal for this Coastal Rivers sediment project is to characterize surficial sediments in each river with a focus on the upper layer that has the most potential to influence SAV. Sediment samples were therefore limited to the top root-active portion of the river bottom, and the surface water and pore water sampling were conducted at the same locations. A few core samples were attempted in each river, to attempt to collect deeper-than-surface sediments; most with low recovery. After discussion, the District recommended collection of composited ponar samples.

A site reconnaissance event was conducted over a three-day period to identify any access issues, collect general observations of river conditions such as water depth and flow velocities and large-scale changes in channel morphology. Additional reconnaissance activities included identification of areas of high or unexpected anthropogenic activity, visible outfalls to the rivers, and general conditions at the proposed transect locations. During the reconnaissance event, sediment and aqueous samples were collected from Weeki Wachee Transect 10.0 and Chassahowitzka transect 10.0.

This study is not intended to evaluate correlative or causative factors, simply to provide a preliminary characterization and description of each river which will be compared to data from other studies (SAV and macroinvertebrate assessments), and provide insight on areas that warrant further study.

3 DATA COLLECTION ACTIVITIES

The study area includes three spring-fed coastal rivers in west central Florida (**Figure 4-1**). Each river was characterized along 20 transects that traverse the width of the river. The midpoint of each transect was located using Global Positioning System (GPS) coordinates provided by the District; therefore, collection of additional GPS coordinates was not conducted. Each study area was in the public access portion of the river, no work was done within park boundaries, and no permits were required.

All sampling activities were conducted in general accordance with FDEP-SOP-001/01 (updated March 1, 2014); most specifically sections FS 2100 (surface water sampling), and FS 4000 (sediment sampling and pore water sampling).

3.1 Physical Depth Measurements

Sediment probing measurements were recorded at five stations across each transect, for a total of 100 locations in each river. Probe and sample locations were named one through five from left to right while facing upstream. At each station, a metered, 0.75-inch diameter metal rod was used to measure water depth, thickness of soft/flocculent sediment, and compacted sediment thickness (maximum rod penetration or refusal). At each station, the presence or absence of SAV or a significant algal mat at the sediment/water interface were also noted. Field logs are provided in **Appendix A**.

3.2 Sediment Sampling

Sediment samples were collected using a Ponar dredge sampler from the three central stations of each transect (stations 2, 3, and 4). These three samples were composited in a stainless steel bowl and visually described in accordance with the Unified Soil Classification System. A total of 20 composite samples from each river were collected, one per transect.

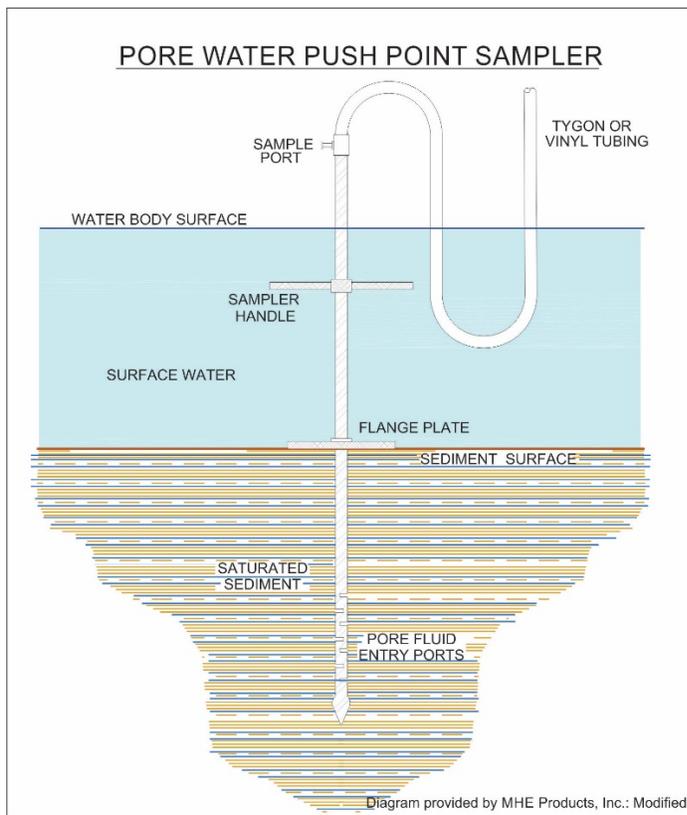
A portion of the composited sample from each transect was preserved and sent to TestAmerica Laboratories Inc. (TA Labs) for analysis of nutrients (total phosphorus, soluble reactive phosphorus, total Kjeldahl nitrogen, ammonia, nitrate, nitrite, total nitrogen and orthophosphate); ions (chloride, sulfate and ferrous iron); and trace elements (iron, copper, manganese, magnesium and potassium). Material from a subset of the 20 composite samples was submitted to MC Squared, Inc. (MC2) for geotechnical analysis of grain size, organic content (by loss on ignition), natural moisture content and specific gravity. Laboratory results are provided in **Appendix B**.

3.3 Aqueous Sampling

Aqueous sampling was conducted prior to probing and sediment collection activities to avoid disturbing the water column prior to sampling. Sampling was performed at the central station (station 3) of 10 transect locations within each river. A 3-foot-long stainless-steel, ¼-inch diameter push point sampler (shown below) fitted with a polypropylene screen sock was advanced with two sets of tubing connected to a peristaltic pump. A polycarbonate sampling platform (flange plate) was utilized to ensure that surface water was collected approximately 1 foot above the sediment/water interface, and paired pore water was collected approximately 1 foot below the sediment/water interface.

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A total of 10 surface water, and 10 pore water samples were collected for laboratory analysis. After pre-sample purge, field measurements were recorded for temperature, conductivity, pH, dissolved oxygen (DO), turbidity and oxidation-reduction potential (ORP). Samples were then collected, preserved on ice, and sent to TA Labs for analysis of nutrients (total phosphorus, soluble reactive phosphorus, total Kjeldahl nitrogen, ammonia, nitrate, nitrite, total nitrogen and orthophosphate); ions (chloride, sulfate and ferrous iron); and total and dissolved trace elements (iron, copper, manganese, magnesium and potassium).



Pore water push point sampler. Diagram provided by MHE Products, Inc.; modified.

4 HOMOSASSA RIVER

The Homosassa River study area (**Figure 4-1**) includes approximately 3.2 miles of river extending from its confluence at the salt marsh upstream to the downstream limit of the Homosassa Springs Park boundary. The 20 transects in this reach are collocated with the historical SAV study transects (**Figure 4-2**). As provided by the District, GPS coordinates for the center of each transect are provided in **Table 4-1**.

4.1 Visual Observations

Observations were made of basic riverbank condition from the approximate viewpoint of the near-shore transect locations (stations 1 and 5). Beginning at transect 10.5 and facing upstream, the majority of the left bank (station 1 side) is bordered by a variety of residential housing developments of low relief with sea walls and docks up through transect 1.5 where the park property begins. On the right side bank, the lower bank is undeveloped, then residential housing is predominant from transects 9.5 through 6.5, followed by a low relief wooded area to transect 5.0. Between transects 5.0 and 4.5, a condominium development provides canal access to the river. Moving upstream from transect 4.5, low relief wooded areas gradually give way to more concentrated housing to the edge of the preserve.

Two example views of typical riverbank conditions are shown below. Additional photos are provided in **Appendix C**.



Homosassa, left bank, transect 7.5; low relief residential.



Homosassa, right bank, transect 10.5; undeveloped.

4.2 Probe Data

Probing measurements collected from the 20 transects are provided in **Table 4-2**. The measured sediment thicknesses are presented on **Figure 4-3**. As expected, areas of higher sediment accumulation are present at the edges compared to the mid-channel location where the majority of flow is conveyed. No overall spatial trend appears to be present from upstream to downstream. In general, the narrowest portions of the river appear to have the thinnest sediment layers; as indicated around transects 2.5 and 7.5, and the thickest deposit of sediment appears to be present in the wider, lower-energy portions of the river.

The area represented by each probing location was determined using ESRI ArcGIS software and using the midpoint between each transect to set the longitudinal length and the midpoint between probing station to set the lateral width (**Figure 4-3**). The subareas were combined with the measured sediment thickness to estimate sediment volume across each transect, as outlined in **Table 4-2**. Sediment volume estimates are limited to depth of refusal for hand-sampling methods, and are a rough estimate due to spacing of the transects. These transect volumes sum to a minimum estimated total sediment volume of 21,976,070 cubic feet in the Homosassa study area.

Sediment thickness at each Station, and average thickness by transect is presented in **Graph 4-1**. Sediment thicknesses in the Homosassa River are relatively thin up near the headwaters and increase heading downstream with local variations controlled by the overall width of the channel (i.e., station 2.5 between transects 7 and 7.5), and the thickest sediment accumulations are found at transect 10.5 and

near the edges of the rivers (stations 1 and 5). Probe logs and field observations are provided in **Appendix A**.

4.3 Sediment Data

A portion of the composited samples from 12 Homosassa transects was sent to MC2 for geotechnical analysis including grain size analysis, organic content (by loss on ignition), natural moisture content and specific gravity. Selected transect locations include 1.5, 2.5, 3.5, 4.5, 5.5, 6.0, 6.5, 7.0, 7.5, 8.5, 9.5 and 10.0. Locations 6.0 and 7.0 were selected for their positions downstream of the residential areas and canal, and location 10.0 was sampled during the reconnaissance event. Photos of samples collected for visual description are provided in **Appendix C**.

The geotechnical laboratory report is provided in **Appendix B**, and results are shown in **Table 4-3**. Though still a minor fraction overall, silt content generally increases downstream, transitioning from primarily fine sand to silty sand in the area of transect 5.0, both with trace organic detritus (**Figure 4-4**). This transition correlates with an overall increase in percent fines in the downstream direction. **A significant longitudinal trend for organic content is not apparent.** As shown in **Graph 4-2**, the percent fines and percent organic material appear to trend together. Lateral trends in sediment grain size and composition were not evaluated.

The analytical laboratory report is also provided in **Appendix B**, and results are shown in **Table 4-4**. Longitudinal trends of sediment chemical parameters are shown in **Graphs 4-3** thru **4-7**. All metals (copper, magnesium, potassium, manganese and iron) appear generally correlated along the reach of the study area. Inorganic compounds chloride and sulfate generally trend together, except for a notably sharper decrease in chloride at the 2.0 transect. Both ammonia and orthophosphate show a sharp increase at transects 8.5 and 9.0. Nitrate-nitrite shows a clear decrease to an asymptotic level around transect 6.5.

The increasing metals trend is shown in **Figure 4-5** for manganese. Iron is high at transect 1.5, low throughout most of the reach, increasing again at transects 9.5 and 10.5

4.4 Aqueous Data

Aqueous samples were collected from paired pore water and surface water locations for the purpose of gaining preliminary information regarding areas that may be in flux with respect to ground water, surface water, and pore water. A significant differential of any given analytical parameter may warrant consideration for future additional investigation of their possible influence on SAV communities.

Aqueous analytical results are provided in **Table 4-5**. Longitudinal trends of paired surface water and pore water chemical parameters are also shown in **Graphs 4-8** thru **4-11**. The area of transect 4.5 shows an apparent differential between aqueous sources for manganese, magnesium, potassium, ammonia, total Kjeldahl nitrogen, nitrate-nitrite, phosphorous, orthophosphate and chloride. Transect 8.5 shows an apparent differential of iron, manganese, ammonia, phosphorous and orthophosphate.

On **Figure 4-6**, the above noted differentials for nitrate-nitrite and ammonia are most notable in transect 4.5; the ammonia differential also appears to be notable in the 3.5 transect. Paired data shown on **Figure**

4-7 indicates a differential for manganese and iron that is most notable at transects 4.5 and 8.5 of the Homosassa River. The analytical laboratory report is also provided in **Appendix B**.

4.5 Summary

Sediment thickness in the Homosassa River ranges from approximately 1 to 7 feet of penetrable thickness. Thick sequences at transects 4.5 to 5.0 and 8.0 to 8.5 appear to be coincident with canals associated with residential developments. Overall sediment character collected from the river bottom is mostly fine sand with a mild downstream transition to a slightly higher silt content around transect 5.

Most notable physical and chemical changes appear to be spatially associated with these residential canals. Both sediment ammonia and orthophosphate show a sharp increase at transects 8.5 and 9.0. Paired aqueous data at transects 4.5 at 8.5 indicate several notable differentials as well; whether these are solely a result of canal discharge, or rather influenced by other resulting or unrelated hydrologic flux dynamics is not yet known.

4.6 Recommendations

The above assessment data provide a first-order characterization of sediments in the Homosassa River with a focus on the upper layer that has the most potential to influence SAV. Accompanying aqueous data is applied herein to supplement the sedimentological data, and provide a generalized view of the area that may warrant additional study related to hydrologic and nutrient flux dynamics.

Once these data are compared with the SAV and macroinvertebrate assessments that were contracted coincidentally with this study; possible next steps for additional research may include:

- Hydrologic and nutrient flux studies, to consider groundwater-to-surface water impacts and partitioning.
- Finer scale sediment (longitudinal, lateral and potential vertical) assessment in impacted areas identified in current assessments.
- Chemical and contaminant assessment and characterization of contributing features such as canals and outfalls noted during reconnaissance.
- Additional sediment characterization correlated to confirmed bedrock surface and stratigraphic analysis.
- Evaluation of tidal cycle, GW-SW interaction, and river velocities throughout river reach.
- Sediment transport modeling.
- Nutrient demand and limiting dynamics.
- Assessments similar to this on other area rivers.

4.7 Attachments

4.7.1 Tables

TABLE 4-1
Transect Location Coordinates
Homosassa River, October 2015
 March 2016 Sediment Assessment Report

RIVER	TRANSECT	STATION	MEAN LATITUDE	MEAN LONGITUDE
Homosassa	1.0	3	28.79885	-82.5909
Homosassa	1.5	3	28.80041	-82.59379
Homosassa	2.0	3	28.80061	-82.59613
Homosassa	2.5	3	28.79896	-82.59815
Homosassa	3.0	3	28.79887	-82.60028
Homosassa	3.5	3	28.79769	-82.6019
Homosassa	4.0	3	28.79548	-82.60343
Homosassa	4.5	3	28.79508	-82.60582
Homosassa	5.0	3	28.79253	-82.60863
Homosassa	5.5	3	28.79043	-82.61062
Homosassa	6.0	3	28.78919	-82.61262
Homosassa	6.5	3	28.78742	-82.61468
Homosassa	7.0	3	28.78648	-82.61652
Homosassa	7.5	3	28.78512	-82.61952
Homosassa	8.0	3	28.78302	-82.62131
Homosassa	8.5	3	28.78264	-82.62353
Homosassa	9.0	3	28.78349	-82.62565
Homosassa	9.5	3	28.78357	-82.62746
Homosassa	10.0	3	28.7837	-82.62954
Homosassa	10.5	3	28.7841	-82.63159

TABLE 4-2
Sediment Volume and Thickness by Transect
Homosassa River, October 2015
 March 2016 Sediment Assessment Report

RIVER	TRANSECT	STATION NO.	GIS STATION ID	WATER DEPTH (ft)	SEDIMENT THICKNESS (ft)	STATION AREA (ft ²)	SEDIMENT VOLUME (ft ³)	MEAN	STATION 1	STATION 2	STATION 3	STATION 4	STATION 5
Homosassa	1.0	1	HM-1-1	5.00	1.25	84,342.5	105,428	1	1.25				
Homosassa	1.0	2	HM-1-2	6.75	0.25	49,848.6	12,462			0.25			
Homosassa	1.0	3	HM-1-3	7.50	1	52,573.2	52,573				1		
Homosassa	1.0	4	HM-1-4	8.50	1	47,802.3	47,802					1	
Homosassa	1.0	5	HM-1-5	9.00	1.5	35,033.9	52,551						1.5
Homosassa	1.5	1	HM-1.5-1	5.00	0.75	71,039.4	53,280	1.1	0.75				
Homosassa	1.5	2	HM-1.5-2	8.50	1	76,455.8	76,456			1			
Homosassa	1.5	3	HM-1.5-3	12.00	0	74,096.1	0				0		
Homosassa	1.5	4	HM-1.5-4	9.00	3.5	74,551.6	260,931					3.5	
Homosassa	1.5	5	HM-1.5-5	5.75	0.25	77,764.0	19,441						0.25
Homosassa	2.0	1	HM-2-1	6.00	3.5	79,240.5	277,342	1.75	3.5				
Homosassa	2.0	2	HM-2-2	5.50	2.25	75,362.8	169,566			2.25			
Homosassa	2.0	3	HM-2-3	7.00	2.25	65,183.1	146,662				2.25		
Homosassa	2.0	4	HM-2-4	5.50	0.5	53,473.1	26,737					0.5	
Homosassa	2.0	5	HM-2-5	4.25	0.25	40,630.5	10,158						0.25
Homosassa	2.5	1	HM-2.5-1	3.50	0.25	32,010.7	8,003	0.7	0.25				
Homosassa	2.5	2	HM-2.5-2	4.50	1	33,703.5	33,704			1			
Homosassa	2.5	3	HM-2.5-3	7.50	1.25	38,921.0	48,651				1.25		
Homosassa	2.5	4	HM-2.5-4	8.50	1	37,905.5	37,905					1	
Homosassa	2.5	5	HM-2.5-5	4.00	0	33,321.4	0						0
Homosassa	3.0	1	HM-3-1	5.00	4	43,006.8	172,027	2.15	4				
Homosassa	3.0	2	HM-3-2	7.50	1.5	45,594.6	68,392			1.5			
Homosassa	3.0	3	HM-3-3	6.50	1.5	44,495.5	66,743				1.5		
Homosassa	3.0	4	HM-3-4	5.50	1.25	41,393.7	51,742					1.25	
Homosassa	3.0	5	HM-3-5	3.50	2.5	41,618.2	104,045						2.5
Homosassa	3.5	1	HM-3.5-1	5.00	0.75	133,850.9	100,388	2	0.75				
Homosassa	3.5	2	HM-3.5-2	6.00	2.5	114,792.2	286,981			2.5			
Homosassa	3.5	3	HM-3.5-3	5.75	1.75	107,596.3	188,294				1.75		
Homosassa	3.5	4	HM-3.5-4	5.50	2.75	100,400.3	276,101					2.75	
Homosassa	3.5	5	HM-3.5-5	4.50	2.25	84,356.7	189,803						2.25
Homosassa	4.0	1	HM-4-1	4.25	2.25	83,407.0	187,666	2.2	2.25				
Homosassa	4.0	2	HM-4-2	6.00	1.5	90,177.6	135,266			1.5			
Homosassa	4.0	3	HM-4-3	8.25	2.25	117,750.4	264,938				2.25		
Homosassa	4.0	4	HM-4-4	5.50	2.5	112,063.7	280,159					2.5	
Homosassa	4.0	5	HM-4-5	4.00	2.5	107,712.1	269,280						2.5
Homosassa	4.5	1	HM-4.5-1	4.50	3.75	220,356.6	826,337	2.55	3.75				
Homosassa	4.5	2	HM-4.5-2	5.50	2	256,085.8	512,172			2			
Homosassa	4.5	3	HM-4.5-3	6.00	1.5	190,623.3	285,935				1.5		
Homosassa	4.5	4	HM-4.5-4	6.25	1.75	172,789.8	302,382					1.75	
Homosassa	4.5	5	HM-4.5-5	3.25	3.75	142,973.2	536,149						3.75
Homosassa	5.0	1	HM-5-1	5.00	2	193,004.0	386,008	3.4	2				
Homosassa	5.0	2	HM-5-2	7.50	2	208,799.7	417,599			2			
Homosassa	5.0	3	HM-5-3	8.50	3.5	151,473.8	530,158				3.5		
Homosassa	5.0	4	HM-5-4	5.50	3.5	143,742.8	503,100					3.5	
Homosassa	5.0	5	HM-5-5	3.50	6	137,593.1	825,558						6
Homosassa	5.5	1	HM-5.5-1	8.50	1.75	95,153.9	166,519	3.45	1.75				
Homosassa	5.5	2	HM-5.5-2	7.50	3	94,617.7	283,853			3			
Homosassa	5.5	3	HM-5.5-3	8.00	3.5	101,118.9	353,916				3.5		
Homosassa	5.5	4	HM-5.5-4	5.00	5	107,620.0	538,100					5	
Homosassa	5.5	5	HM-5.5-5	3.25	4	131,222.0	524,888						4

TABLE 4-2
Sediment Volume and Thickness by Transect
Homosassa River, October 2015
 March 2016 Sediment Assessment Report

RIVER	TRANSECT	STATION NO.	GIS STATION ID	WATER DEPTH (ft)	SEDIMENT THICKNESS (ft)	STATION AREA (ft ²)	SEDIMENT VOLUME (ft ³)	MEAN	STATION 1	STATION 2	STATION 3	STATION 4	STATION 5
Homosassa	6.0	1	HM-6-1	7.50	3.5	118,958.1	416,353	2.65	3.5				
Homosassa	6.0	2	HM-6-2	5.00	0.5	114,559.3	57,280			0.5			
Homosassa	6.0	3	HM-6-3	6.00	2.5	115,904.6	289,761				2.5		
Homosassa	6.0	4	HM-6-4	6.00	3	117,249.7	351,749					3	
Homosassa	6.0	5	HM-6-5	4.25	3.75	115,335.9	432,510						3.75
Homosassa	6.5	1	HM-6.5-1	4.50	3.5	121,639.9	425,740	2.45	3.5				
Homosassa	6.5	2	HM-6.5-2	5.75	2.25	124,255.0	279,574			2.25			
Homosassa	6.5	3	HM-6.5-3	4.00	1	127,104.1	127,104				1		
Homosassa	6.5	4	HM-6.5-4	8.00	1.25	129,953.1	162,441					1.25	
Homosassa	6.5	5	HM-6.5-5	3.50	4.25	146,007.0	620,530						4.25
Homosassa	7.0	1	HM-7-1	4.00	3	94,843.5	284,531	1.7	3				
Homosassa	7.0	2	HM-7-2	3.50	2.25	71,944.3	161,875			2.25			
Homosassa	7.0	3	HM-7-3	10.50	0.75	75,949.9	56,962				0.75		
Homosassa	7.0	4	HM-7-4	11.50	1.25	88,489.2	110,611					1.25	
Homosassa	7.0	5	HM-7-5	7.50	1.25	91,809.5	114,762						1.25
Homosassa	7.5	1	HM-7.5-1	3.75	2	81,550.4	163,101	1.55	2				
Homosassa	7.5	2	HM-7.5-2	3.50	2.75	83,793.3	230,432			2.75			
Homosassa	7.5	3	HM-7.5-3	6.25	2	56,424.7	112,849				2		
Homosassa	7.5	4	HM-7.5-4	9.75	0	47,893.6	0					0	
Homosassa	7.5	5	HM-7.5-5	10.00	1	50,356.9	50,357						1
Homosassa	8.0	1	HM-8-1	4.50	2.25	40,913.8	92,056	2.7	2.25				
Homosassa	8.0	2	HM-8-2	8.00	0	46,813.8	0			0			
Homosassa	8.0	3	HM-8-3	12.00	3	59,471.1	178,413				3		
Homosassa	8.0	4	HM-8-4	6.75	4.25	79,033.8	335,894					4.25	
Homosassa	8.0	5	HM-8-5	4.00	4	78,947.2	315,789						4
Homosassa	8.5	1	HM-8.5-1	7.50	0.75	59,259.7	44,445	3.7	0.75				
Homosassa	8.5	2	HM-8.5-2	4.00	2.25	77,670.7	174,759			2.25			
Homosassa	8.5	3	HM-8.5-3	3.75	3.75	84,089.9	315,337				3.75		
Homosassa	8.5	4	HM-8.5-4	5.25	5.75	90,509.3	520,428					5.75	
Homosassa	8.5	5	HM-8.5-5	6.00	6	105,646.9	633,882						6
Homosassa	9.0	1	HM-9-1	6.50	3.5	85,905.5	300,669	1.4	3.5				
Homosassa	9.0	2	HM-9-2	5.00	0	68,111.1	0			0			
Homosassa	9.0	3	HM-9-3	8.50	0.5	66,410.3	33,205				0.5		
Homosassa	9.0	4	HM-9-4	9.00	3	64,709.2	194,128					3	
Homosassa	9.0	5	HM-9-5	5.00	0	57,097.7	0						0
Homosassa	9.5	1	HM-9.5-1	6.00	3.25	92,308.1	300,001	2.1	3.25				
Homosassa	9.5	2	HM-9.5-2	6.00	4.5	77,047.8	346,715			4.5			
Homosassa	9.5	3	HM-9.5-3	6.50	2.5	78,415.1	196,038				2.5		
Homosassa	9.5	4	HM-9.5-4	3.00	0.25	79,782.3	19,946					0.25	
Homosassa	9.5	5	HM-9.5-5	3.50	0	91,443.8	0						0
Homosassa	10.0	1	HM-10-1	2.00	0	77,546.7	0	1.5	0				
Homosassa	10.0	2	HM-10-2	7.50	0.75	78,149.9	58,612			0.75			
Homosassa	10.0	3	HM-10-3	4.25	3	78,012.6	234,038				3		
Homosassa	10.0	4	HM-10-4	2.25	1	77,875.1	77,875					1	
Homosassa	10.0	5	HM-10-5	2.25	2.75	73,257.6	201,458						2.75
Homosassa	10.5	1	HM-10.5-1	4.50	4.5	85,099.5	382,948	4.9	4.5				
Homosassa	10.5	2	HM-10.5-2	8.00	3.5	74,699.0	261,446			3.5			
Homosassa	10.5	3	HM-10.5-3	6.50	4.5	79,139.4	356,127				4.5		
Homosassa	10.5	4	HM-10.5-4	3.50	5.5	78,467.1	431,569					5.5	
Homosassa	10.5	5	HM-10.5-5	3.00	6.5	68,864.2	447,617						6.5

ESTIMATED SEDIMENT VOLUME (FT³)

21,976,070

TABLE 4-3
Geotechnical Data
 Homosassa River, October 2015
 March 2016 Sediment Assessment Report

Sample No.	Transect	Soil Description	USCS Class.	% of Total Soil (by weight) passing U.S. Standard Sieve Nos.								N M C (%)	LL (%)	PL (%)	PI (%)	Specific Gravity	(%) Organic Content
				1-inch	#4	#10	#20	#40	#60	#100	(%) Fines #200						
HM 1.5 SED	1.5	Brown, dark gray fine SAND (SP)	SP	–	100	100	100	99	95	74	4	58.4	NP	NP	NP	2.64	1.4
HM 2.5 SED	2.5	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM	–	–	100	100	98	93	71	6	63.9	NP	NP	NP	2.62	2.5
HM 3.5 SED	3.5	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM	–	–	100	100	99	94	76	10	68.0	NP	NP	NP	2.60	2.6
HM 4.5 SED	4.5	Brown, dark gray fine SAND (SP)	SP	–	–	100	100	98	92	71	5	46.8	NP	NP	NP	2.66	1.8
HM 5.5 SED	5.5	Brown, dark gray silty fine SAND (SM)	SM	–	–	100	100	99	96	84	15	96.3	NP	NP	NP	2.56	4.5
HM 6.0 SED	6.0	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM	–	100	100	100	99	96	83	8	45.6	NP	NP	NP	2.62	1.7
HM 6.5 SED	6.5	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM	–	–	100	100	99	94	80	9	49.5	NP	NP	NP	2.62	2.1
HM 7.0 SED	7.0	Brown, dark gray silty fine SAND (SM)	SM	–	–	100	99	98	95	82	24	129.0	NP	NP	NP	2.53	6.5
HM 7.5 SED	7.5	Brown, dark gray silty fine SAND (SM)	SM	–	100	99	99	99	96	81	14	92.0	NP	NP	NP	2.61	2.3
HM 8.5 SED	8.5	Brown, dark gray silty fine SAND (SM)	SM	–	–	100	100	99	97	72	25	97.8	NP	NP	NP	2.55	5.2
HM 9.5 SED	9.5	Brown, dark gray silty fine SAND (SM)	SM	–	100	100	100	99	97	87	29	124.9	NP	NP	NP	2.5	7.5
HM 10.0 SED	10.0	Brown, dark gray silty fine SAND (SM)	SM	–	100	100	100	99	95	83	20	73.1	NP	NP	NP	2.61	3.8

Footnotes:

- % - percent
- LL - liquid limit
- NMC - natural moisture content
- NP - non-plastic
- PI - plasticity index
- PL - plastic limit
- SED - sediment
- SM - silty sand
- SP - sand
- SP-SM - sand with silt
- USCS - Unified Soil Classification System
- no sample

TABLE 4-4
Sediment Analytical Results
Homosassa River, October 2015
March 2016 Sediment Assessment Report

Sample ID Sample Collection Date	HM 1.0 SED (10/22/15) 10/22/15 12:30	HM 1.5 SED (10/22/15) 10/22/15 10:30	HM 2.0 SED (10/22/15) 10/22/15 9:50	HM SED 2.5 (10/21/15) 10/21/15 16:20	HM 3.0 SED (10/21/15) 10/21/15 15:45	HM 3.5 SED (10/21/15) 10/21/15 15:20	HM 4.0 SED (10/21/15) 10/21/15 14:55	HM 4.5 SED (10/21/15) 10/21/15 14:30	HM 5.0 SED (10/21/15) 10/21/15 14:00	HM 5.5 SED (10/21/15) 10/21/15 13:30	
Parameter	Units										
Metals by 6010B											
Copper	mg/kg	1.5	17	1.8	3.4	8.6	3.1	2.1	1.4	1.0	4.8
Iron	mg/kg	1200	4200	480	1100	2100	1200	800	570	810	2100
Magnesium	mg/kg	170	540	95	210	430	250	220	160	170	470
Manganese	mg/kg	1.9	9.0	0.94	2.2	4.3	2.4	2.1	1.4	1.9	5.8
Potassium	mg/kg	32 l	62 l	32 l	34 l	67 l	47 l	40 l	34 l	41 l	98
Wet Chemistry by 350.1											
Ammonia (as N), Dissolved	mg/kg	0.32 U	0.32 U	1.1	0.32 U	0.32 J3 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Wet Chemistry by 351.2											
Total Kjeldahl Nitrogen	mg/kg	360	930	490 J3	350	370	670	600	170	87	1100
Wet Chemistry by 353.2											
Nitrate Nitrite as N, Dissolved	mg/kg	0.36 U	0.36 U	7.6	4.4	0.36 J3 U	2.2	0.49 l	0.81 l	0.36 U	0.36 U
Wet Chemistry by 354.1											
Nitrite as N, Dissolved	mg/kg	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Wet Chemistry by 365.1											
Orthophosphate, Dissolved	mg/kg	1.3	0.49 l J3	0.30 U	0.45 l	1.1	0.35 l				
Wet Chemistry by 365.4											
Phosphorus, Total	mg/kg	65	130	70 J3	77	110	65	66	36	22	120
Wet Chemistry by 9038											
Sulfate, Dissolved	mg/kg	25 U	90 l	27 U	78 l	170	130	94	76 l	74 l	160
Wet Chemistry by 9251											
Chloride, Dissolved	mg/kg	380	870	24 l	530	1100	740	560	470	400	890
Wet Chemistry by Nitrate by calc											
Nitrate as N, Dissolved	mg/kg	0.36 U	0.36 U	7.6	4.4	0.36 U	2.2	0.49 l	0.81 l	0.36 U	0.36 U
Wet Chemistry by Total Nitrogen											
Nitrogen, Total	mg/kg	360	930	500	350	370	670	600	170	87	1100

Footnotes on Page 2.

TABLE 4-4
Sediment Analytical Results
Homosassa River, October 2015
March 2016 Sediment Assessment Report

Sample ID Sample Collection Date	HM 6.0 SED (10/21/15) 10/21/15 12:00	HM 6.5 SED (10/21/15) 10/21/15 11:05	HM 7.0 SED (10/21/15) 10/21/15 10:30	HM 7.5 SED (10/21/15) 10/21/15 10:00	HM 8.0 SED (10/21/15) 10/21/15 9:35	HM 8.5 SED (10/20/15) 10/20/15 9:10	HM 9.0 SED (10/19/15) 10/19/15 15:00	HM 9.5 SED (10/19/15) 10/19/15 14:00	HM 10.0 SED (10/19/15) 10/19/15 13:15	HM 10.5 SED (10/19/15) 10/19/15 10:55	
Parameter	Units										
Metals by 6010B											
Copper	mg/kg	1.8	1.9	6.4	5.0	3.3	4.8	7.1	4.9	3.1	4.0
Iron	mg/kg	1200	1400	3000	2400	2300 J3	2900	5000	4100	3400	4200
Magnesium	mg/kg	270	300	670	500	560	620	1200	1000	880	1100
Manganese	mg/kg	3.6	4.4	11	8.8	7.5	11	20	18	15	18
Potassium	mg/kg	65 I	77 I	140	120	120	140	290	260	210	270
Wet Chemistry by 350.1											
Ammonia (as N), Dissolved	mg/kg	0.32 U	0.32 U	0.91 I	0.32 U	0.32 J3 U	3.2	11	7.3	5.1 J3	5.1
Wet Chemistry by 351.2											
Total Kjeldahl Nitrogen	mg/kg	220	510	1300	890	770	870 J3	1400	1000	940	780 J3
Wet Chemistry by 353.2											
Nitrate Nitrite as N, Dissolved	mg/kg	3.0	0.44 I	0.36 U	0.36 U	0.36 U	0.36 I V	0.36 U	0.36 U	0.36 J3 U	0.36 U
Wet Chemistry by 354.1											
Nitrite as N, Dissolved	mg/kg	0.36U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 J3 U	0.36 U	0.36 U	0.36 U	0.36 J3 U
Wet Chemistry by 365.1											
Orthophosphate, Dissolved	mg/kg	0.59I	0.55 I	0.39 I	0.42 I	0.30 U	1.4	2.0	1.9	2.0	2.7
Wet Chemistry by 365.4											
Phosphorus, Total	mg/kg	74V	63 V	160	100	130	110	170	170	160	160 J3
Wet Chemistry by 9038											
Sulfate, Dissolved	mg/kg	49I	68 I	140	110	160	110	210	130	44 I	120
Wet Chemistry by 9251											
Chloride, Dissolved	mg/kg	500	590	960	860	840	920	2000	1800	1100	1200
Wet Chemistry by Nitrate by calc											
Nitrate as N, Dissolved	mg/kg	3.0	0.44 I	0.36 U	0.36 U	0.36 U	0.36 I	0.36 U	0.36 U	0.36 U	0.36 U
Wet Chemistry by Total Nitrogen											
Nitrogen, Total	mg/kg	220	510	1300	890	770	870	1400	1000	940	780

Footnotes:

mg/kg - milligrams per kilogram

SED - sediment

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

I J3 - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

I V - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J3 - Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

J3 U - Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

J3 V - 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.

V - Indicates that the analyte was detected at or above the method detection limit 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

TABLE 4-5
Surface Water and Pore Water Analytical Results
 Homosassa River, October 2015
 March 2016 Sediment Assessment Report

Sample ID Sample Collection Date Laboratory Order Number	HM 1.5 SW (10/22/15) 10/22/15 10:10 660-70002-1	HM 1.5 PW (10/22/15) 10/22/15 10:10 660-70002-2	HM 2.5 SW (10/21/15) 10/21/15 16:30 660-69974-12	HM 2.5 PW (10/21/15) 10/21/15 16:30 660-69974-13	HM 3.5 SW (10/20/15) 10/20/15 17:40 660-69919-11	HM 3.5 PW (10/20/15) 10/20/15 17:40 660-69919-12	HM 4.5 SW (10/20/15) 10/20/15 16:55 660-69919-9	HM 4.5 PW (10/20/15) 10/20/15 16:55 660-69919-10	HM 5.5 SW (10-20-15) 10/20/15 15:30 660-69919-7	HM 5.5 PW (10-20-15) 10/20/15 15:30 660-69919-8	
Field Parameters	Units										
Temperature	C	23.89	25.11	24.53	24.73	23.86	23.75	24.06	24.67	24	24.59
Conductivity	µS/cm	2804	3856	2106	3365	4341	5484	3324	5469	3423	4090
pH	SU	6.61	7.18	6.83	7.05	8.15	7.3	8.11	7.35	7.9	7.68
DO	%	49.6	27.5	78.9	20.7	86	13.7	74.2	24.3	87.9	23.2
DO	mg/L	4.16	2.23	6.54	1.71	7.15	1.14	6.17	1.98	7.32	1.91
ORP	mV	187.2	-235.5	208.3	-76.3	-52.5	-304.3	137.8	-283.3	65.5	-22.2
Turbidity	NTU	1.13	0.3	1.04	0.34	0.67	0.39	1.52	0.86	2.38	0.86
Metals by 6010B											
Copper	µg/L	2.5 U	2.5 I	2.5 U	2.5 U	3.3 I	3.0 I	2.7 I	2.6 I	2.5 U	2.6 I
Copper, Dissolved	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.7 I	2.5 U	2.5 I	2.5 U	2.5 U	2.5 U
Iron	µg/L	120 I	50 U	93 I	51 I	85 I	50 I	50 I	130 I	150 I	98 I
Iron, Dissolved	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Magnesium	µg/L	60000	78000	46000	59000	86000	99000	98000	65000	64000 J3	77000
Magnesium, Dissolved	µg/L	60000	78000	46000	57000	95000	99000	99000	66000	69000	79000
Manganese	µg/L	4.0	3.9 I	2.2 I	10	1.2 I	8.3	11	1.9 I	2.0 I	7.6
Manganese, Dissolved	µg/L	1.0 U	3.5 I	1.0 U	1.0 U	1.0 U	7.9	10	1.0 U	1.0 U	1.0 U
Potassium	µg/L	19000	26000	14000	21000	29000	35000	37000	21000	21000	26000
Potassium, Dissolved	µg/L	19000	26000	14000	20000	33000	35000	37000	21000	22000	26000
Wet Chemistry by 350.1											
Ammonia (as N)	mg/L	0.020 U	1.1	0.020 U	0.22	0.020 U	3.3	6.5	0.020 U	0.020 U	0.20
Wet Chemistry by 351.2											
Total Kjeldahl Nitrogen	mg/L	0.26 U	1.6	0.29 I V	0.66 V	0.47 I V	4.3	7.6	0.41 I V	0.43 I V	0.81 V
Wet Chemistry by 353.2											
Nitrate Nitrite as N	mg/L	0.54	0.15 V	0.46	0.030 I V	0.21 V	0.018 U	0.018 U	0.35	0.34	0.041 I V
Nitrite as N	mg/L	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Wet Chemistry by 365.1											
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry by 365.2											
Orthophosphate, Dissolved	mg/L	0.014	0.15	0.0070 I	0.066	0.0050 U	0.087	0.18	0.011	0.0070 I	0.064
Wet Chemistry by 365.4											
Phosphorus, Total	mg/L	0.032 U	0.20	0.057 I V	0.11 V	0.072 I V	0.26 V	0.66	0.056 I V	0.042 I V	0.10 V
Wet Chemistry by Nitrate by calc											
Nitrate as N	mg/L	0.54	0.15	0.46	0.030	0.21	0.010 U	0.010 U	0.35	0.34	0.041
Nitrate Nitrite as N	mg/L	0.54	0.15	0.46	0.030	0.21	0.010 U	0.010 U	0.35	0.34	0.041
Wet Chemistry by SM 4500 Cl- E											
Chloride	mg/L	380	380	710	1100	1800	2000	1900	1100 J3	1100	370
Wet Chemistry by SM 4500 SO4 E											
Sulfate	mg/L	140	170	100	120	190	130	140	140	140	160
Wet Chemistry by SM3500_FE_D											
Ferrous Iron	µg/L	80 Q	64 Q	62 Q	120 Q	86 Q	67 Q	71 Q	100 Q	97 Q	160 Q
Wet Chemistry by Total Nitrogen											
Nitrogen, Total	mg/L	0.54	1.8	0.75	0.69	0.68	4.3	7.6	0.76	0.77	0.85

Footnotes on Page 2.

TABLE 4-5
Surface Water and Pore Water Analytical Results
 Homosassa River, October 2015
 March 2016 Sediment Assessment Report

Sample ID Sample Collection Date Laboratory Order Number	HM 6.5 SW (10-20-15) 10/20/15 14:57 660-69919-5	HM 6.5 PW (10-20-15) 10/20/15 14:57 660-69919-6	HM 7.5 SW (10/20/15) 10/20/15 14:15 660-69919-3	HM 7.5 PW (10/20/15) 10/20/15 14:15 660-69919-4	HM 8.5 SW (10/20/15) 10/20/15 9:40 660-69919-1	HM 8.5 PW (10/20/15) 10/20/15 9:40 660-69919-2	HM 9.5 SW (10/19/15) 10/19/15 14:25 660-69893-3	HM 9.5 PW (10/19/15) 10/19/15 14:25 660-69893-4	HM 10.5 SW (10/19/15) 10/19/15 11:30 660-69893-1	HM 10.5 PW (10/19/15) 10/19/15 11:30 660-69893-2	
Field Parameters	Units										
Temperature	C	23.65	24.14	23.9	23.67	21.63	22.12	22.95	23.03	22.54	23.69
Conductivity	µS/cm	3856	5071	4926	4696	6065	5036	4420	5207	4846	4874
pH	SU	7.96	7.69	7.81	7.86	6.24	6.9	7.65	7.55	6.65	7.21
DO	%	72.6	17.7	74	69.6	88.2	32.7	73.9	17.9	82.9	55.5
DO	mg/L	6.09	1.45	6.15	5.82	7.6	2.7	6.26	1.49	7.07	4.63
ORP	mV	190.9	-75.3	200.7	193.7	206.4	3.5	219.1	58.8	263.1	58.9
Turbidity	NTU	2.03	0.25	1.59	8.4	1.51	0.58	1.66	7.01	2.23	5.88
Metals by 6010B											
Copper	µg/L	3.4 I	3.2 I	3.7 I	3.7 I	3.9 I	3.3 I	3.0 I	3.0 I	3.5 I	3.1 I
Copper, Dissolved	µg/L	2.7 I	3.0 I	3.2 I	3.0 I	3.4 I	3.4 I	3.0 I	3.2 I	3.5 I	2.9 I
Iron	µg/L	160 I	81 I	160 I	310	140 I	690	160 I	260	310	70 I
Iron, Dissolved	µg/L	50 U	50 U	50 U	50 U	50 U	230	50 U	50 U	50 U	50 U
Magnesium	µg/L	71000	92000	84000	86000	110000 J3	97000	88000 J3	98000	99000	94000
Magnesium, Dissolved	µg/L	70000	94000	85000	87000	110000	99000	89000	100000	110000	98000
Manganese	µg/L	2.5 I	9.2	2.9 I	5.4	4.8	38	3.6 I	13	6.1	5.1
Manganese, Dissolved	µg/L	1.0 U	1.4 I	1.0 U	1.0 U	1.0 U	8.9	1.0 U	5.6	1.0 U	1.0 U
Potassium	µg/L	25000	32000	30000	31000	42000	34000	29000	36000	35000	32000
Potassium, Dissolved	µg/L	25000	33000	30000	31000	42000	35000	30000	37000	37000	33000
Wet Chemistry by 350.1											
Ammonia (as N)	mg/L	0.020 U	0.68	0.020 U	0.020 U	0.020 U	1.4	0.020 U	0.020 U	0.020 U	0.020 U
Wet Chemistry by 351.2											
Total Kjeldahl Nitrogen	mg/L	0.37 I V	1.4 V	0.45 I V	0.73 V	0.50 V	2.2 V	0.51	1.8	0.70	0.59
Wet Chemistry by 353.2											
Nitrate Nitrite as N	mg/L	0.28	0.019 I V	0.23 J3 V	0.21 V	0.18	0.018 U	1.0	0.020 I	0.16	0.10
Nitrite as N	mg/L	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Wet Chemistry by 365.1											
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry by 365.2											
Orthophosphate, Dissolved	mg/L	0.0050 U	0.12	0.0090 I	0.012	0.0050 U	0.50	0.0050 I	0.044	0.0050 U	0.0060 I
Wet Chemistry by 365.4											
Phosphorus, Total	mg/L	0.068 I V	0.17 V	0.069 I V	0.091 I V	0.066 I V	0.55 V	0.065 I V	0.39 V	0.10 V	0.057 I V
Wet Chemistry by Nitrate by calc											
Nitrate as N	mg/L	0.28	0.019 I	0.23	0.21	0.18	0.010 U	0.20	0.020	0.16	0.10
Nitrate Nitrite as N	mg/L	0.28	0.019 I	0.23	0.21	0.18	0.010 U	0.20	0.020	0.16	0.10
Wet Chemistry by SM 4500 Cl- E											
Chloride	mg/L	360	1800	1600	1700	2200	1800	1600	1800 J3	2000	1800
Wet Chemistry by SM 4500 SO4 E											
Sulfate	mg/L	150	170	200	170	240	160	140	180	180 J3	180
Wet Chemistry by SM3500_FE_D											
Ferrous Iron	µg/L	110 Q	90 Q	130 Q	180 Q	140 Q	1800 Q	90 Q	180 Q	110 Q	95 Q
Wet Chemistry by Total Nitrogen											
Nitrogen, Total	mg/L	0.65	1.4	0.68	0.94	0.68	2.2	1.5	1.8	0.86	0.69

Footnotes:

mg/L - milligrams per liter

µg/L - micrograms/liter

MDL - method detection limit

PQL - practical quantitation limit

I - The reported value is between the laboratory MDL and the laboratory PQL.

I Q - The reported value is between the laboratory MDL and the laboratory PQL.

I V - The reported value is between the laboratory MDL and the laboratory PQL.

J3 - Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

J3 U - Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

J3 V - Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

Q - Sample held beyond the accepted holding time.

NA - not analyzed

Q U - Sample held beyond the accepted holding time.

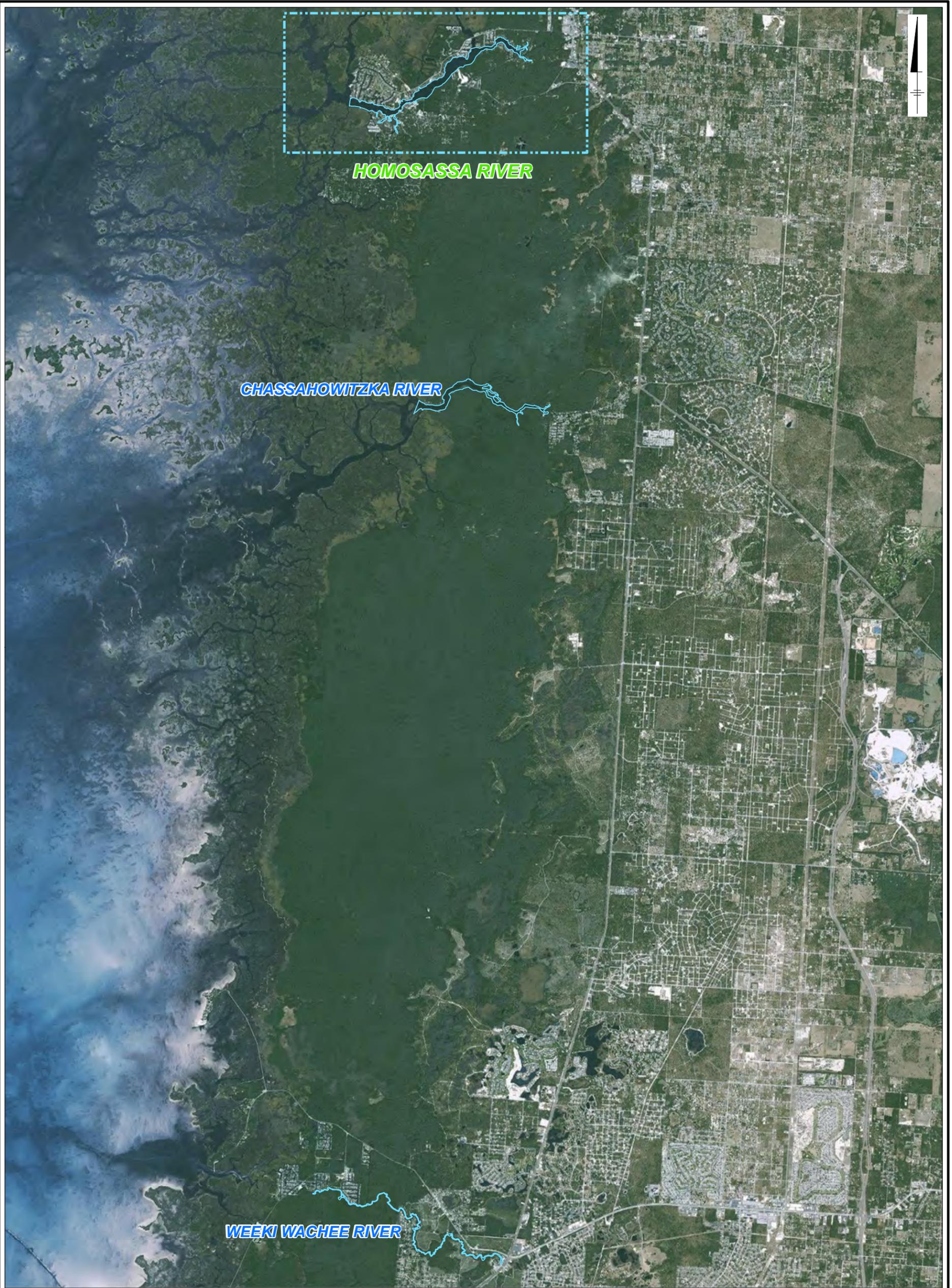
U - Indicates that the compound was analyzed for but not detected.

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.

SW - surface water

PW - pore water

4.7.2 Figures



LEGEND:
 STUDY AREA SHORELINE

Prepared for:
 Southwest Florida Water Management District

Imagery Source: ESRI World Imagery
 Imagery date 8/12/2013

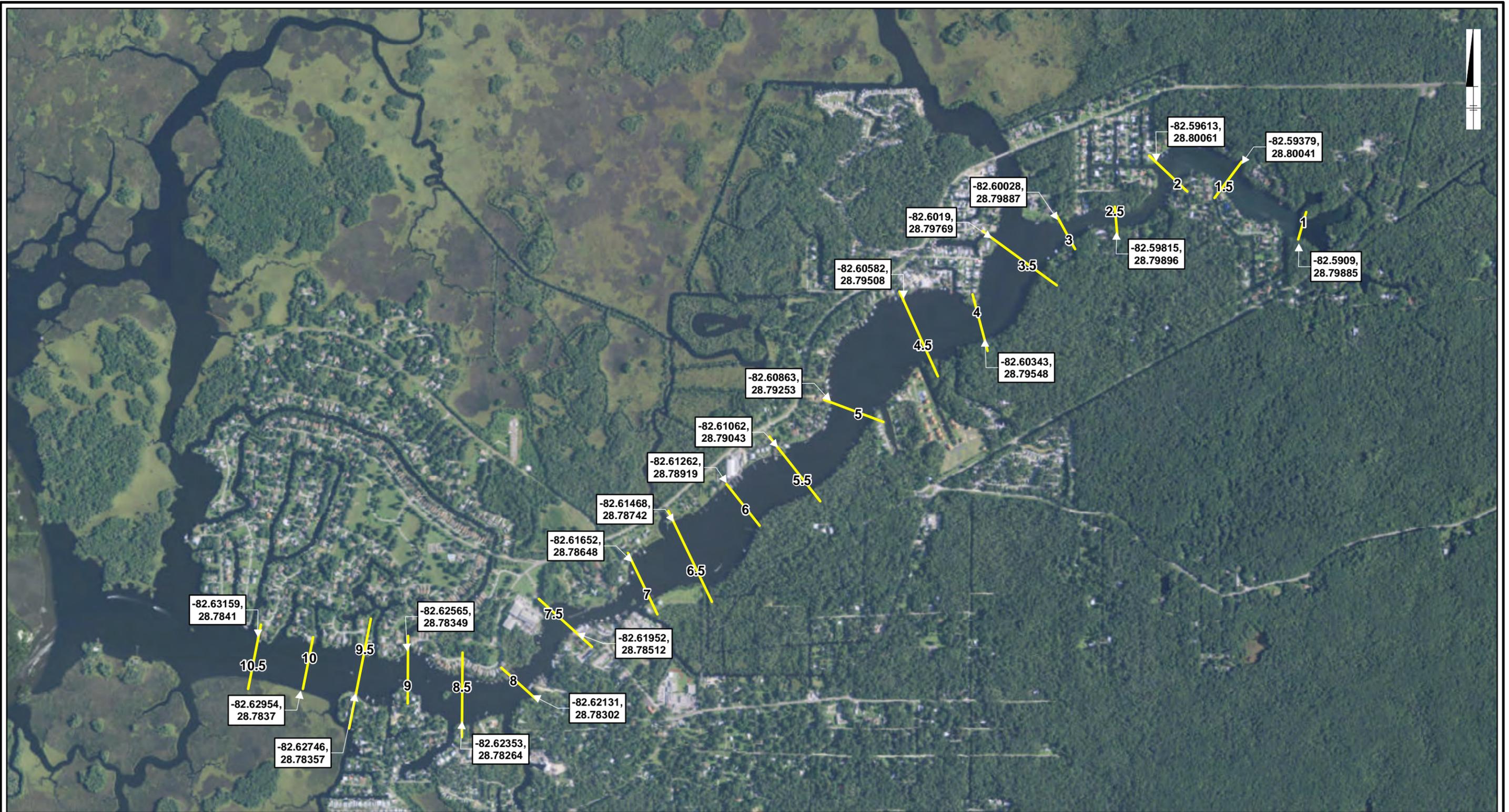


COASTAL RIVERS SEDIMENT ASSESSMENT STUDY AREA

March 2016 Sediment Assessment Report



FIGURE 4-1



LEGEND:

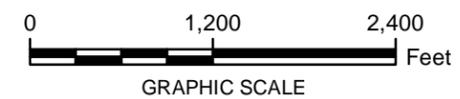
— TRANSECT LOCATION AND IDENTIFICATION

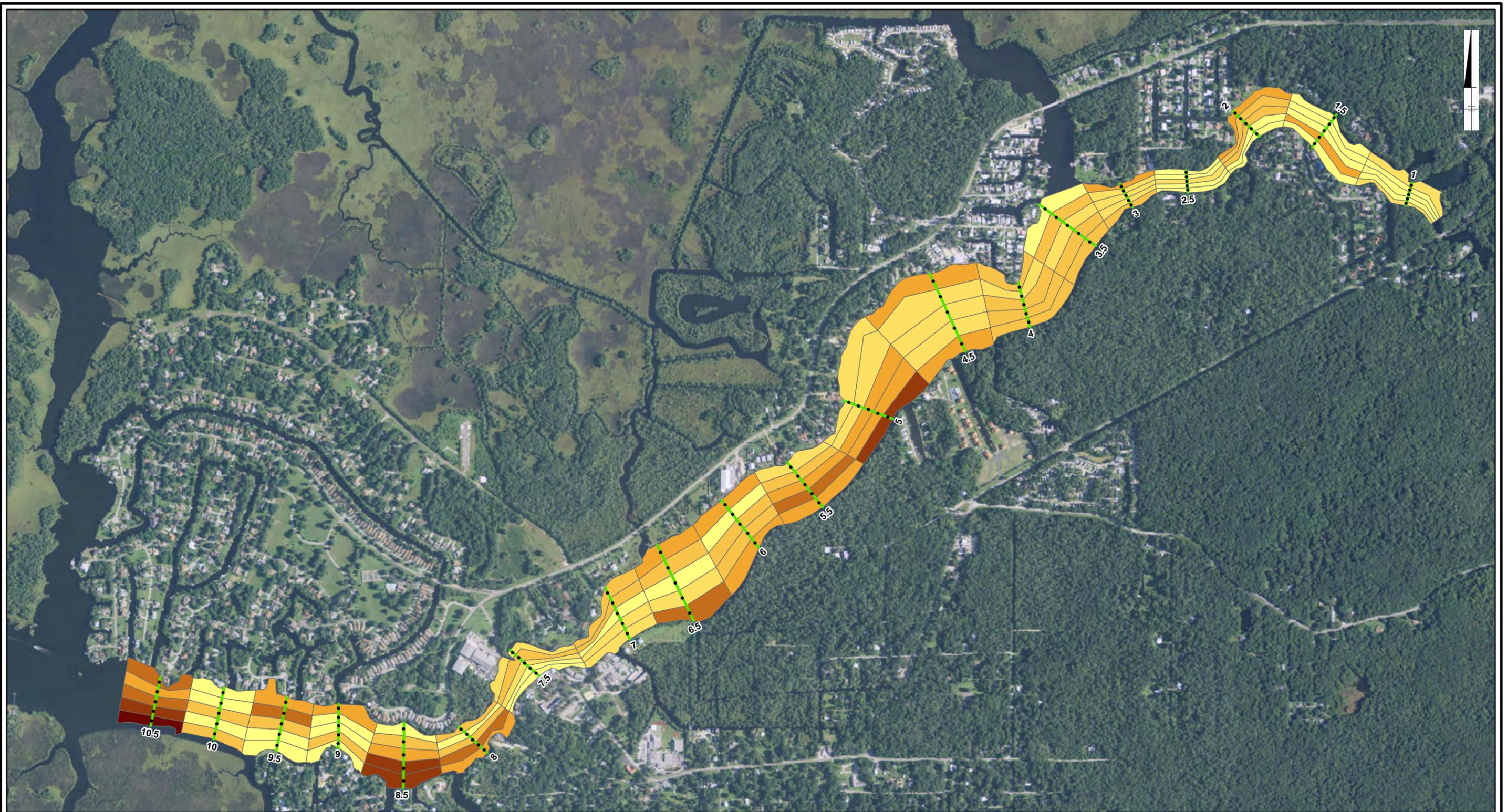
Prepared for:
Southwest Florida Water Management District

**HOMOSASSA
TRANSECT LOCATIONS**

Imagery Source: ESRI World Imagery
Imagery date 8/12/2013

March 2016 Sediment Assessment Report





LEGEND:

- ROD LOCATION
 - TRANSECT LOCATION
- | SEDIMENT THICKNESS, FT |
|---|
| 0 - 1 |
| 1 - 2 |
| 2 - 3 |
| 3 - 4 |
| 4 - 5 |
| 5 - 6 |
| 6 - 7 |

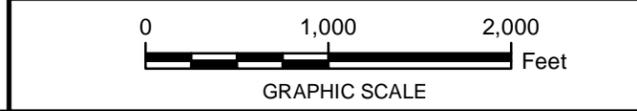
NOTES:
 FT: FEET
 SAMPLING DATES: OCTOBER 19 - 22, 2015

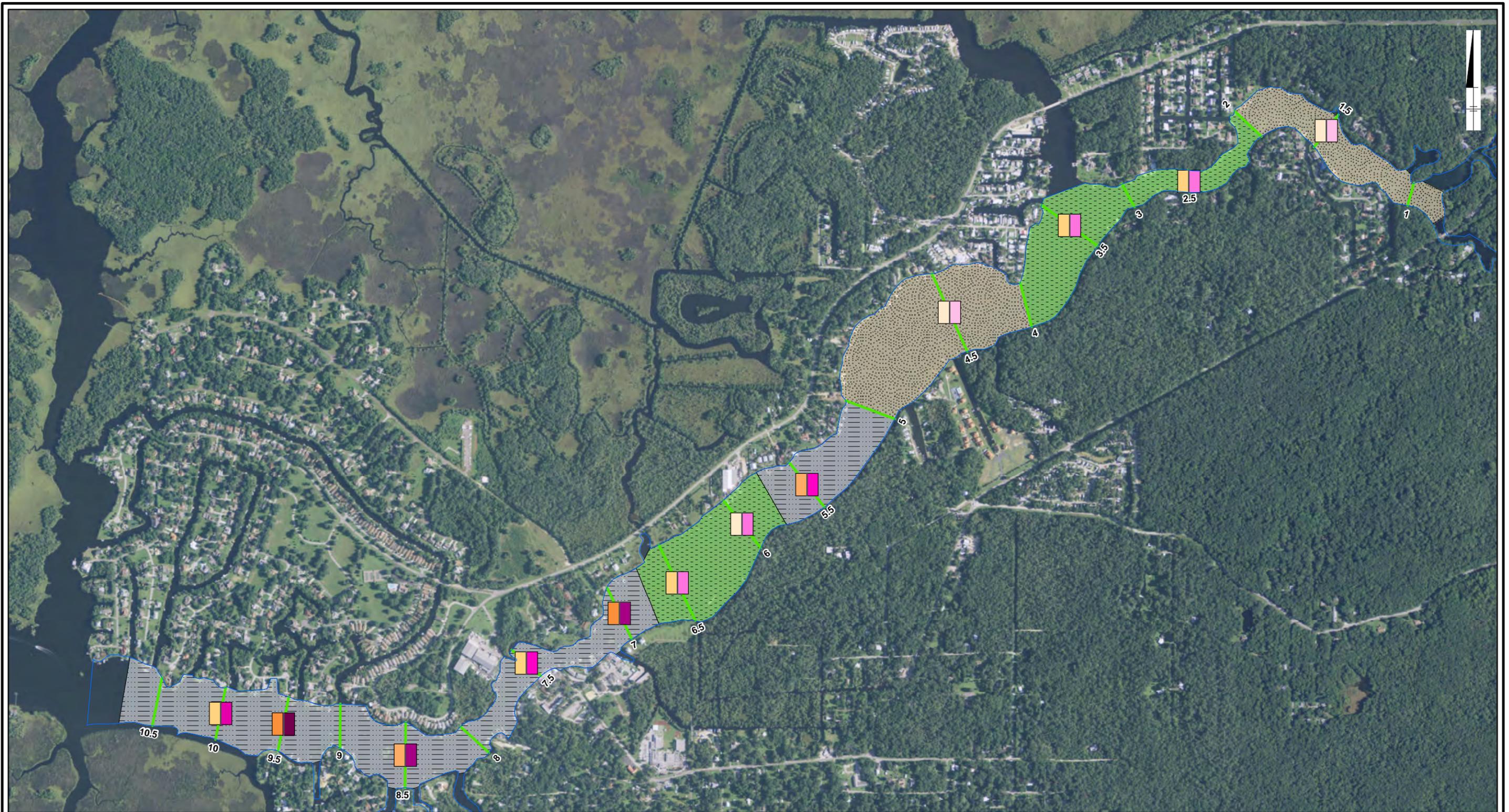
Prepared for:
Southwest Florida Water Management District

**HOMOSASSA TRANSECTS
 SEDIMENT THICKNESS**

Imagery Source: ESRI World Imagery
 Imagery date 8/12/2013

March 2016 Sediment Assessment Report



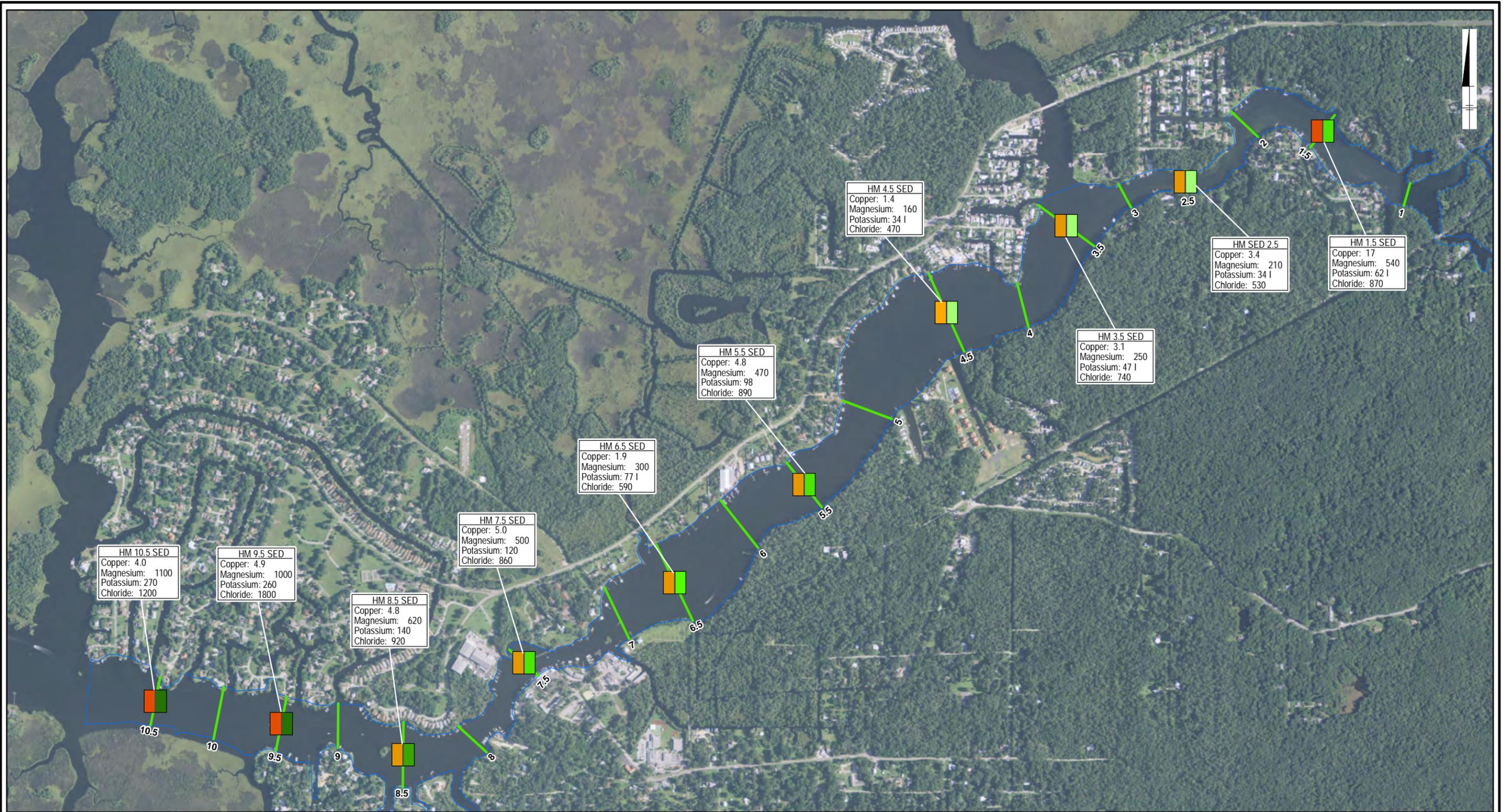


LEGEND:

% ORGANICS		% FINES		PRIMARY LITHOLOGY
<2		< 5		SAND
2 - 4		5 - 10		SAND WITH SILT
4 - 6		10 - 15		SILTY SAND
6 - 8		15 - 20		TRANSECT LOCATION
8 - 10		20 - 25		
		25 - 30		

VALUES PRESENTED ARE IN PERCENT OF TOTAL VOLUME OF SEDIMENT
 SAMPLING DATES: OCTOBER 19 - 22, 2015

<p>Prepared for: Southwest Florida Water Management District</p>	<p>HOMOSSASSA TRANSECTS SEDIMENT CHARACTER</p>
<p>Imagery Source: ESRI World Imagery Imagery date 8/12/2013</p>	<p>March 2016 Sediment Assessment Report</p>
<p>0 1,000 2,000 Feet GRAPHIC SCALE</p>	<p> ARCADIS <small>Design & Consultancy for natural and built assets</small> FIGURE 4-4</p>



LEGEND:

IRON	MANGANESE	TRANSECT LOCATION
0 - 50	0 - 1	SHORELINE
50 - 100	1 - 3	
100 - 500	3 - 5	
500 - 1000	5 - 10	
1000 - 3000	10 - 15	
> 3000	> 15	

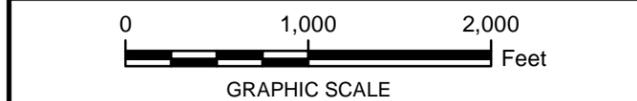
ALL RESULTS ARE REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg)
 SAMPLING DATES: OCTOBER 19 - 22, 2015

Prepared for:
Southwest Florida Water Management District

**HOMOSSASSA TRANSECTS
 IRON AND MANGANESE RESULTS
 SEDIMENT**

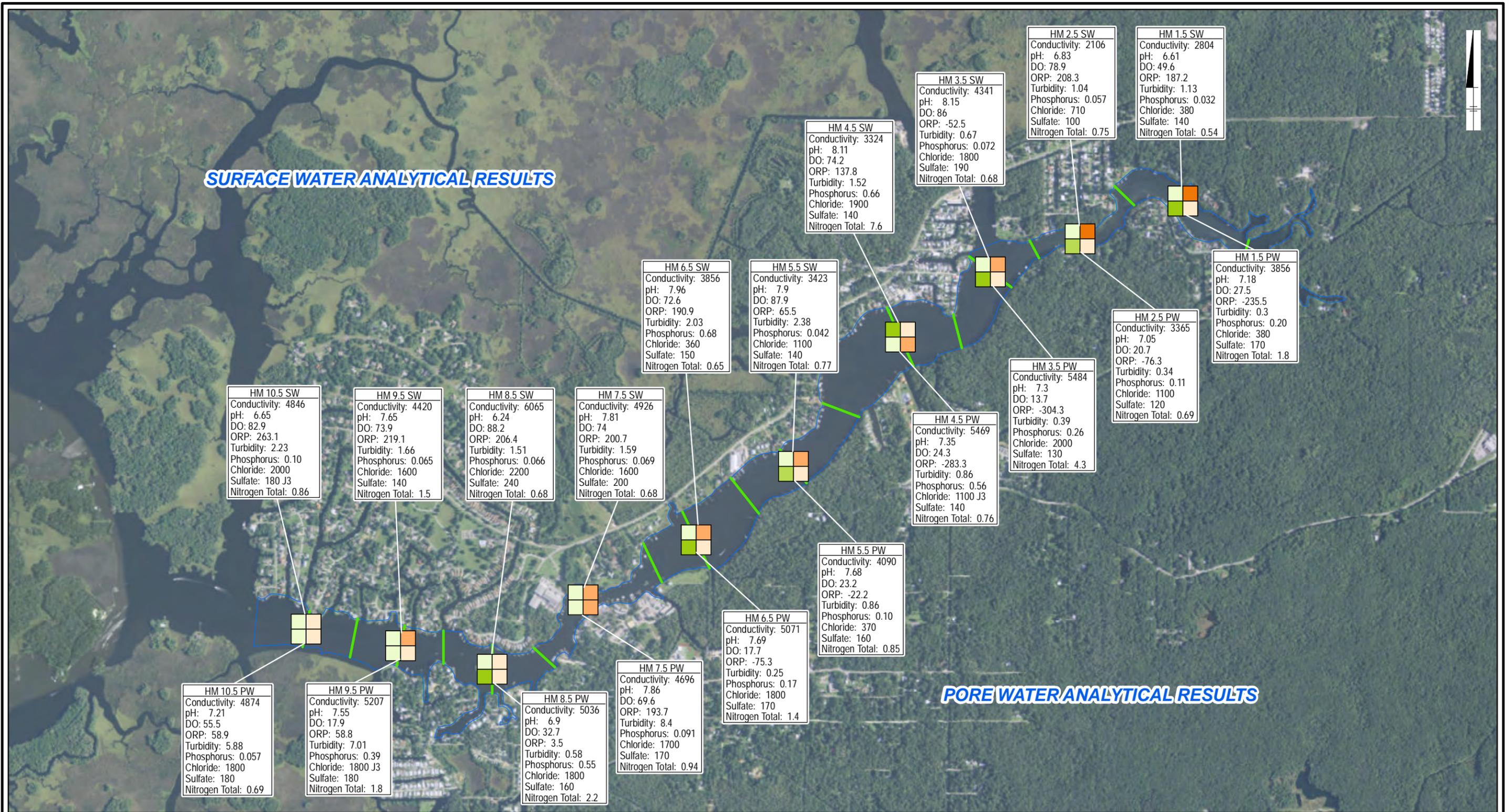
Imagery Source: ESRI World Imagery
 Imagery date 8/12/2013

March 2016 Sediment Assessment Report



ARCADIS Design & Consultancy for natural and built assets

FIGURE 4-5



LEGEND:

- SURFACE WATER AMMONIA RESULT
- PORE WATER AMMONIA RESULT
- SURFACE WATER NITRATE RESULT
- PORE WATER NITRATE RESULT

AMMONIA CONCENTRATION

- 0.02
- 0.03 - 0.12
- 0.13 - 0.26
- 0.27 - 6.50

NITRATE CONCENTRATION

- 0.00 - 0.18
- 0.19 - 0.36
- 0.37 - 0.54

SAMPLING DATES: OCTOBER 19 - 22, 2015

TRANSECT LOCATION

SHORELINE

REPORTING UNITS

- Ammonia mg/L
- Nitrate mg/L
- Conductivity μ S/cm
- pH SU
- Dissolved Oxygen mg/L
- ORP mV
- Turbidity NTU
- Phosphorus mg/L
- Chloride mg/L
- Sulfate mg/L
- Nitrogen_Total mg/L

Prepared for:
Southwest Florida Water Management District

Imagery Source: ESRI World Imagery
Imagery date 8/12/2013

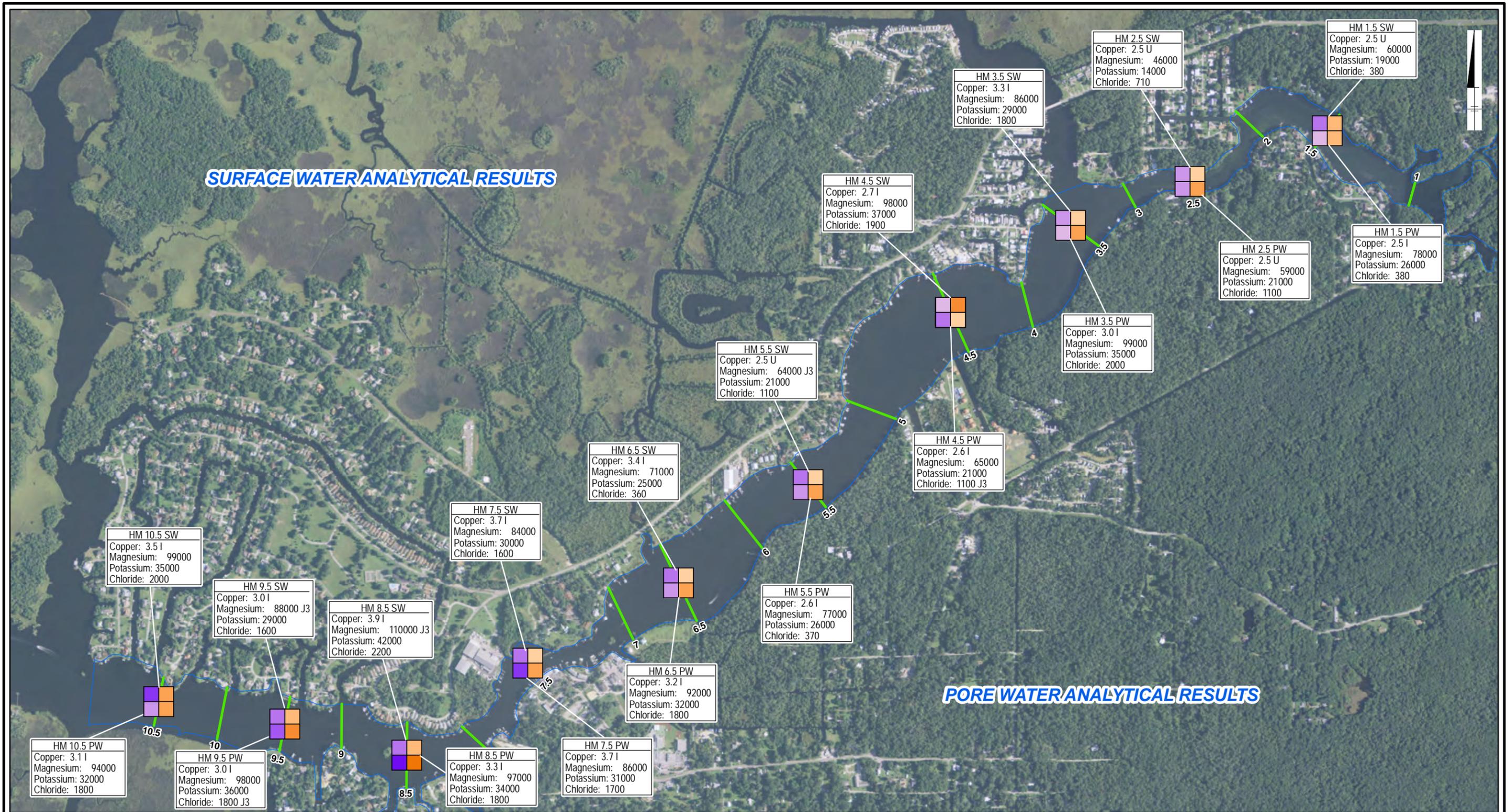
0 1,000 2,000 Feet
GRAPHIC SCALE

**HOMOSASSA TRANSECTS
AMMONIA AND NITRATE RESULTS**

March 2016 Sediment Assessment Report

ARCADIS Design & Consultancy for natural and built assets

FIGURE 4-6



LEGEND:

	SURFACE WATER IRON RESULT		IRON CONCENTRATION		MANGANESE CONCENTRATION		TRANSECT LOCATION
	PORE WATER IRON RESULT		0 - 50		0 - 1		SHORELINE
	SURFACE WATER MANGANESE RESULT		50 - 100		1 - 3		REPORTING UNITS
	PORE WATER MANGANESE RESULT		100 - 200		3 - 5	Iron	µg/L
			200 - 300		5 - 10	Manganese	µg/L
			300 - 400		10 - 25	Copper	µg/L
			> 400		> 25	Magnesium	µg/L
						Potassium	µg/L
						Chloride	mg/L

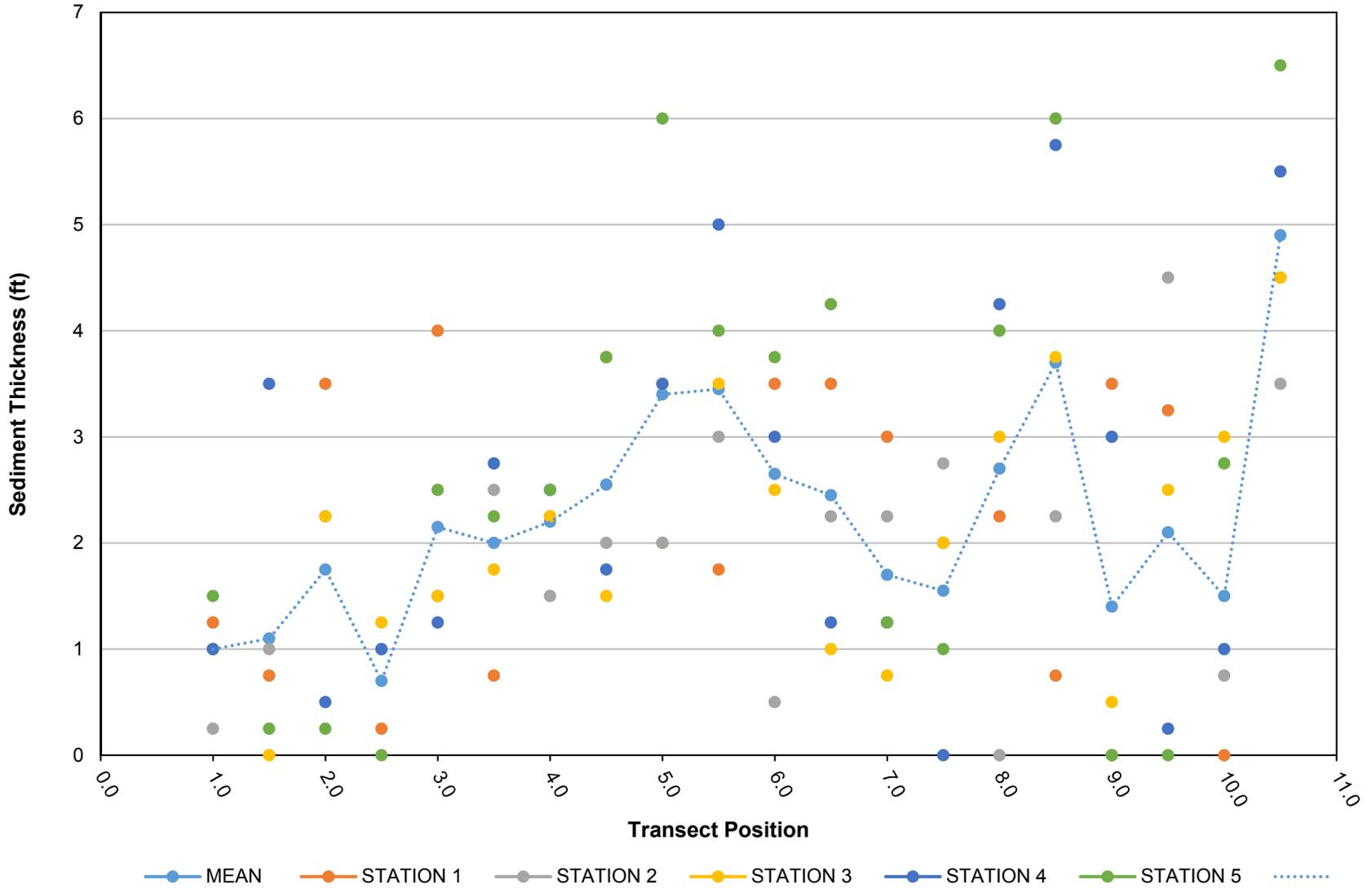
SAMPLING DATES: OCTOBER 19 - 22, 2015

<p>Prepared for: Southwest Florida Water Management District</p>	<p>HOMOSSA TRANSECTS IRON AND MANGANESE RESULTS</p>
<p>Imagery Source: ESRI World Imagery Imagery date 8/12/2013</p>	<p>March 2016 Sediment Assessment Report</p>
<p>0 1,000 2,000 Feet GRAPHIC SCALE</p>	<p> ARCADIS Design & Consultancy for natural and built assets</p>
	<p>FIGURE 4-7</p>

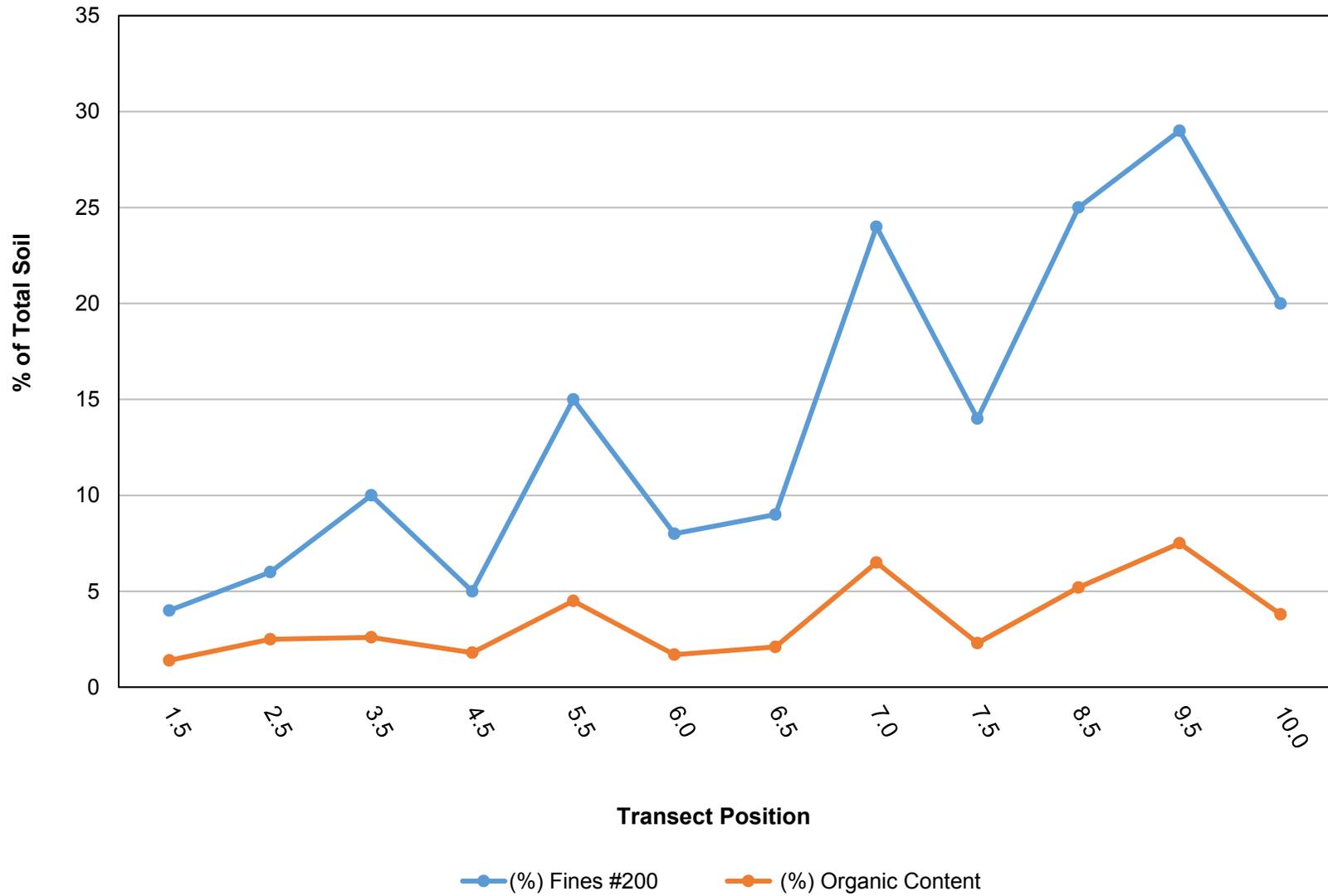
4.7.3 Trend Graphs

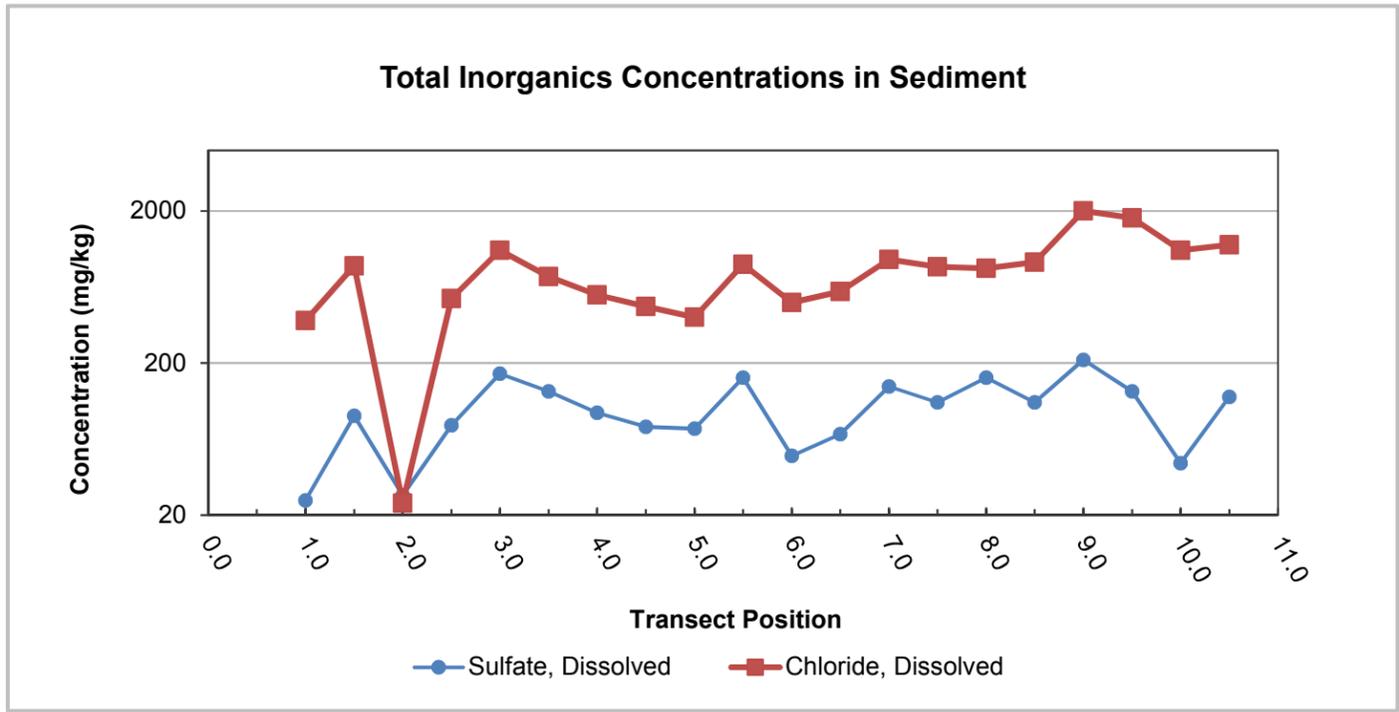
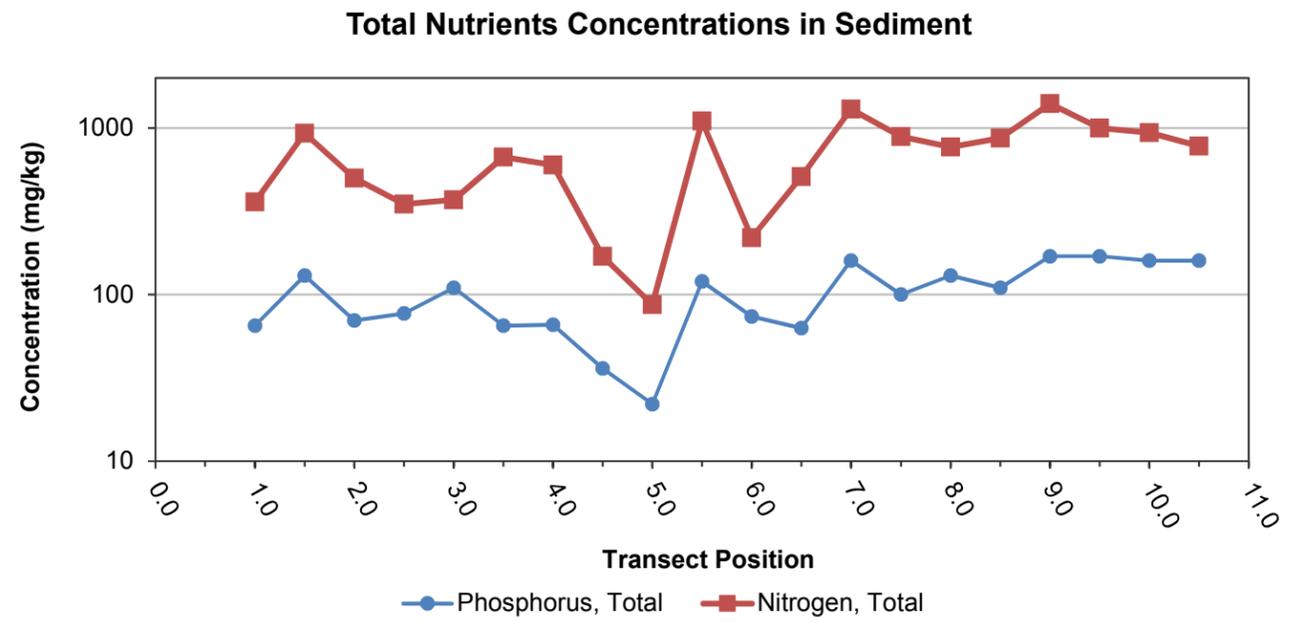
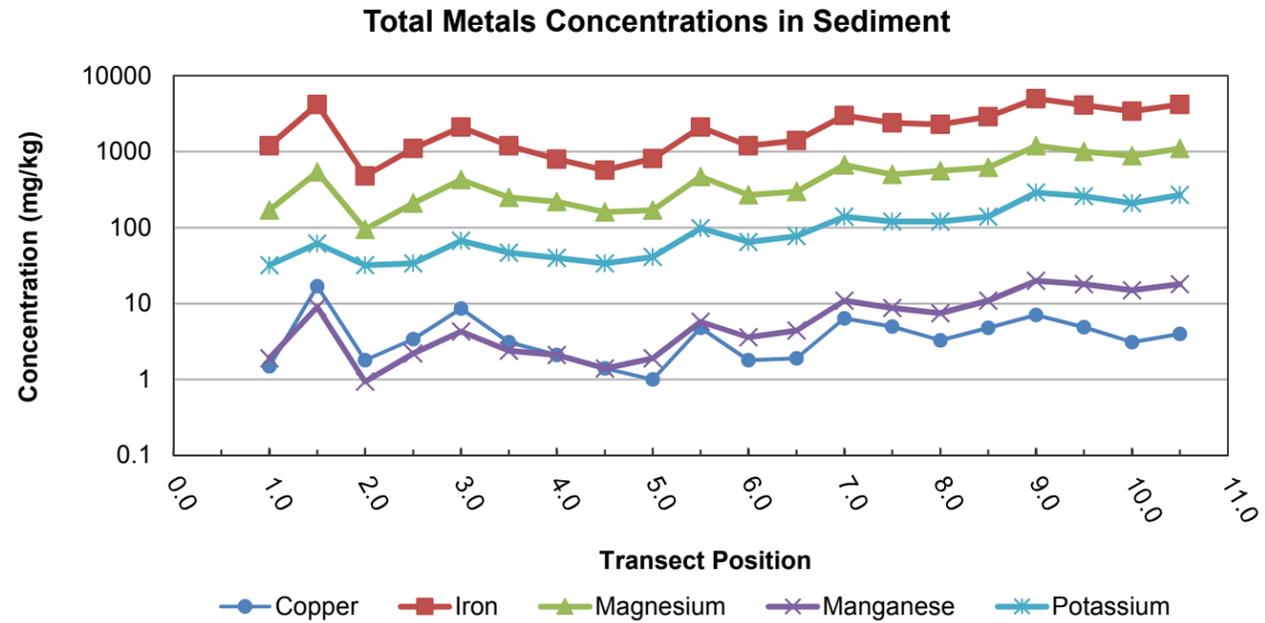
GRAPH 4-1. Sediment Thickness by Transect and Station

Homosassa River, October 2015
March 2016 Sediment Assessment Report



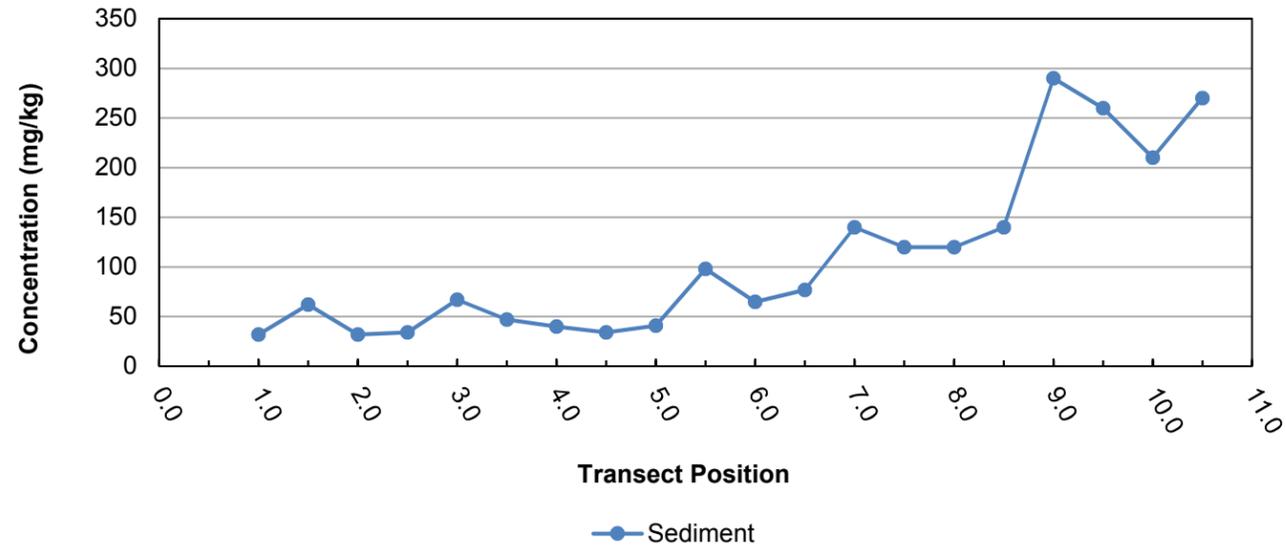
GRAPH 4-2. Geotechnical Data
Homosassa River, October 2015
March 2016 Sediment Assessment Report



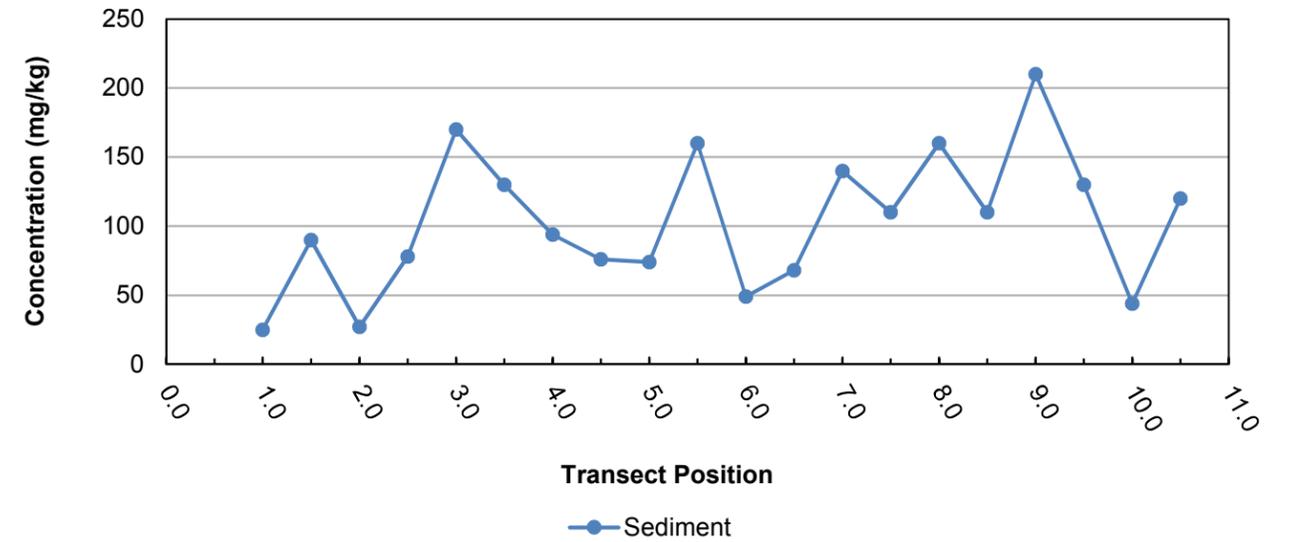


NOTES:
mg/kg - milligrams per kilogram

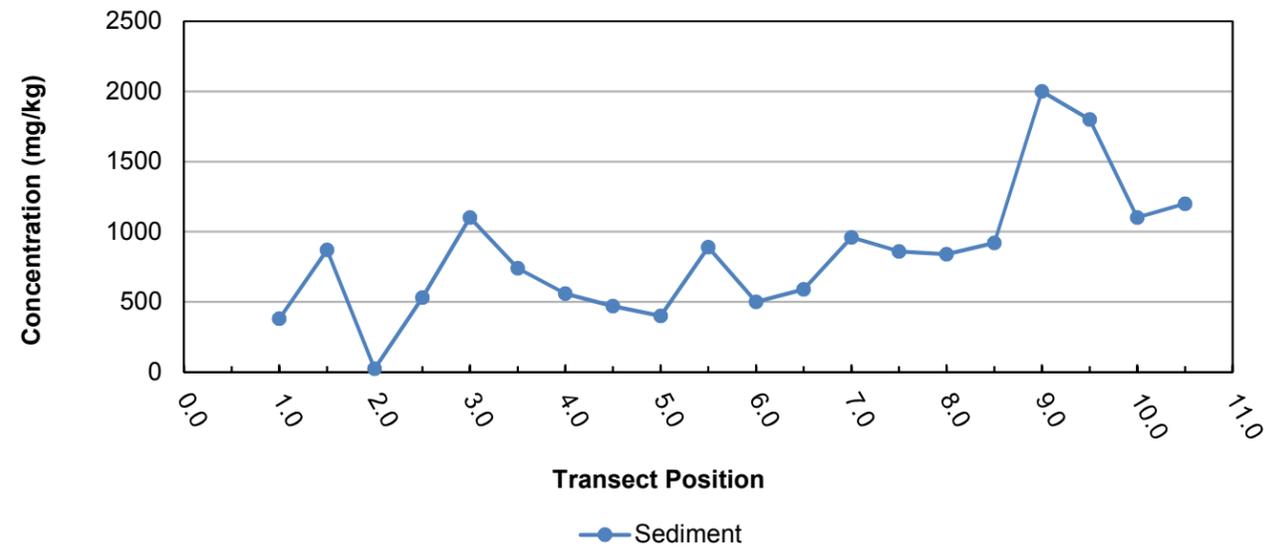
Potassium Concentrations in Sediment



Dissolved Sulfate Concentrations in Sediment

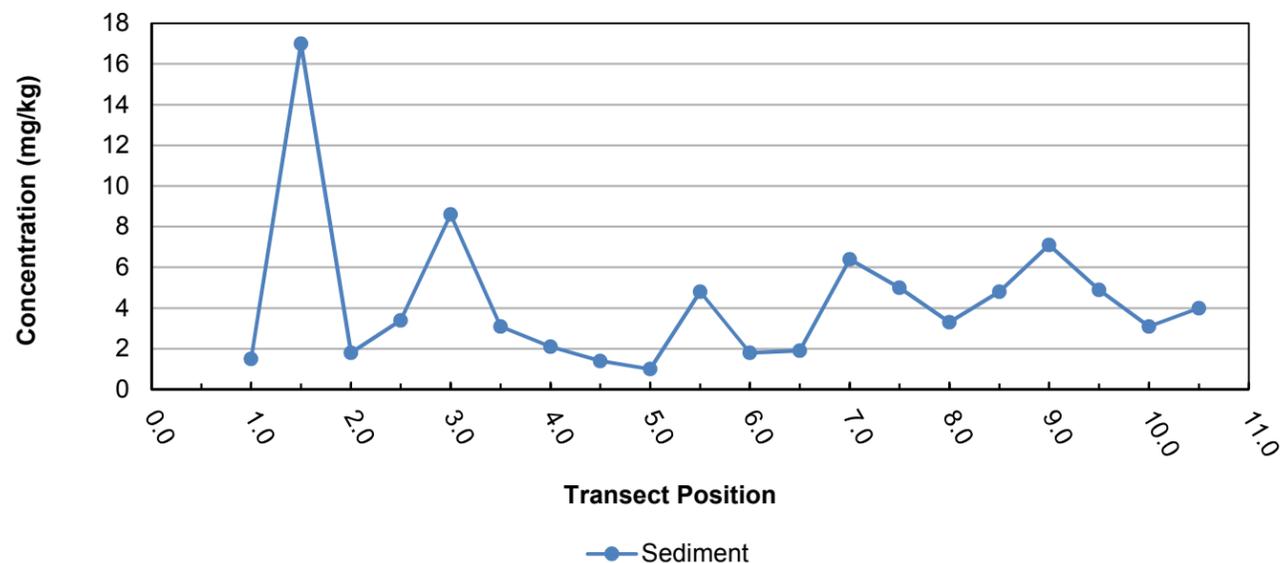


Dissolved Chloride Concentrations in Sediment

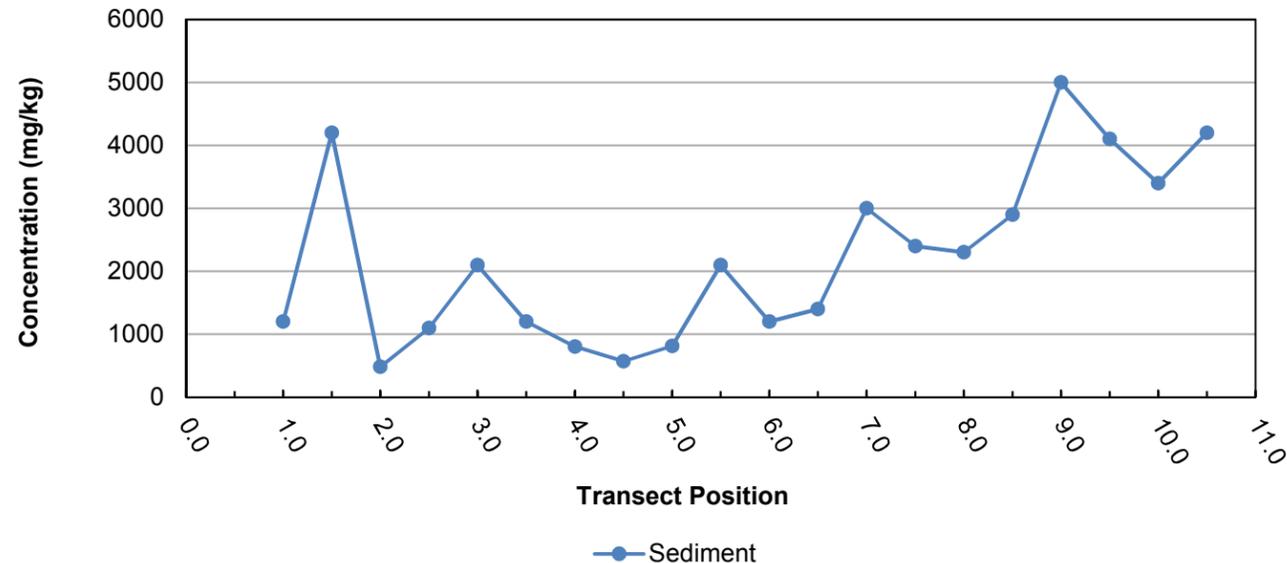


NOTES:
mg/kg - milligrams per kilogram

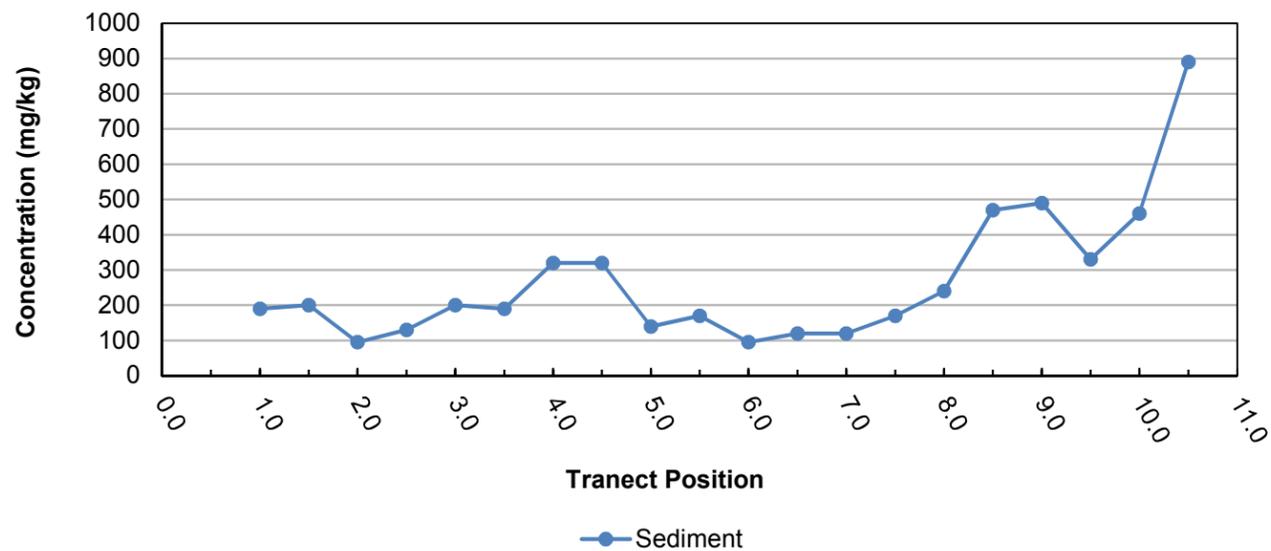
Copper Concentrations in Sediment



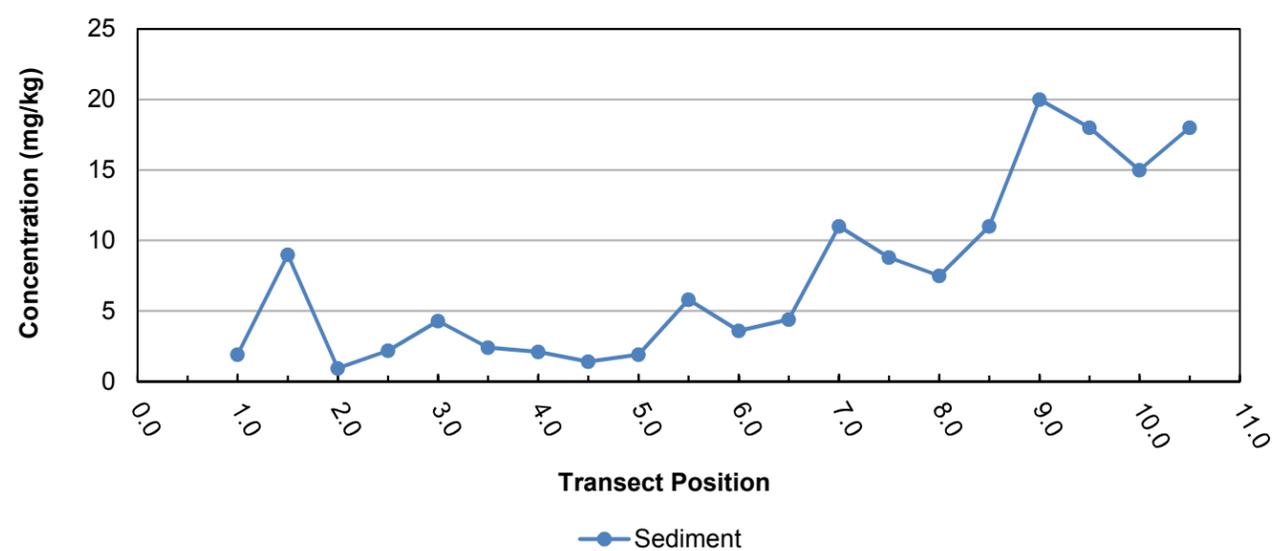
Iron Concentrations in Sediment



Magnesium Concentrations in Sediment

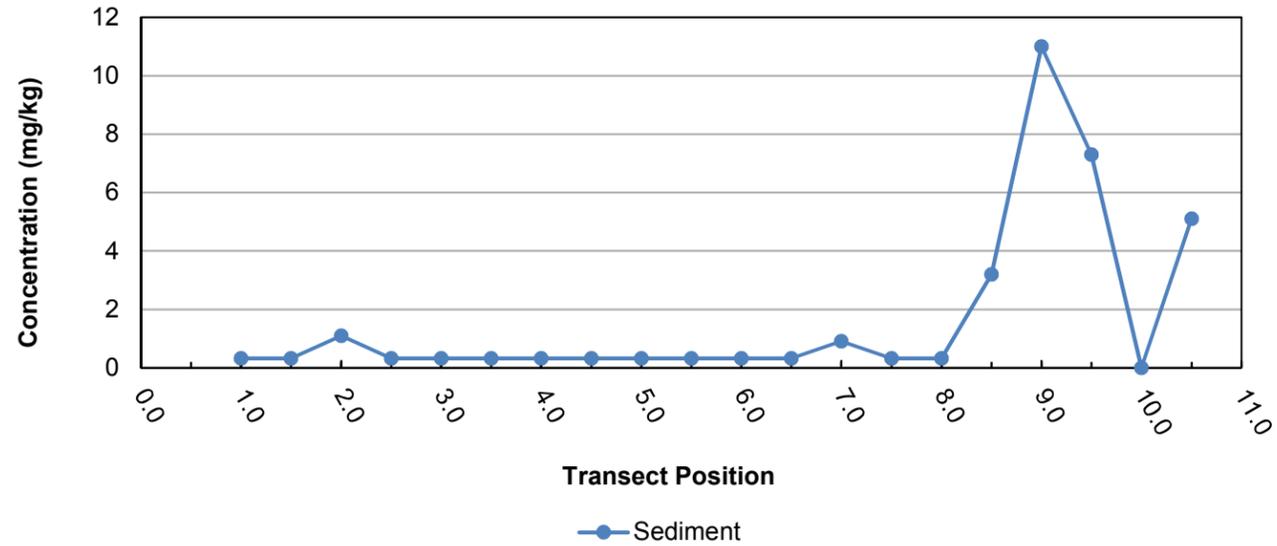


Manganese Concentrations in Sediment

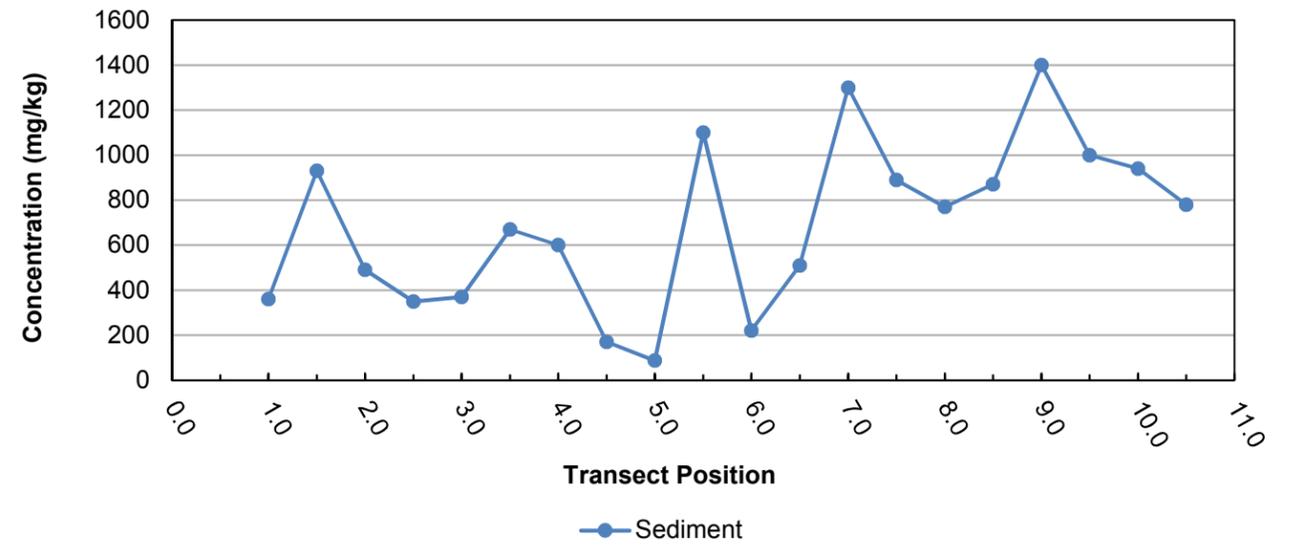


NOTES:
mg/kg - milligrams per kilogram

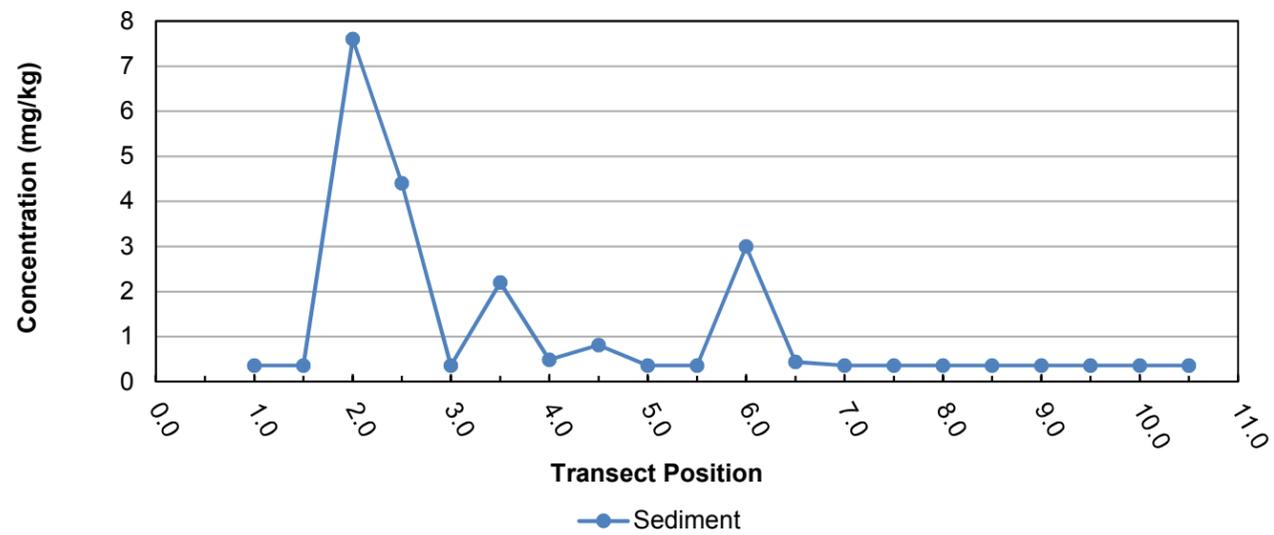
Dissolved Ammonia (as N) Concentrations in Sediment



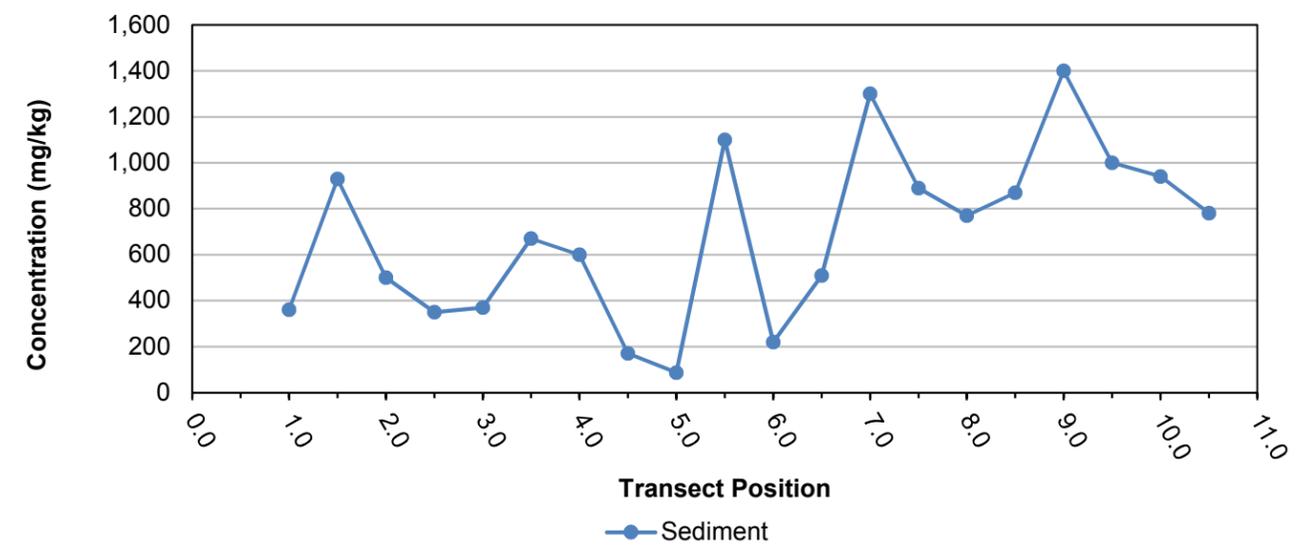
Total Kjeldahl Nitrogen Concentrations in Sediment



Dissolved Nitrate as N Concentrations in Sediment



Total Nitrogen Concentrations in Sediment

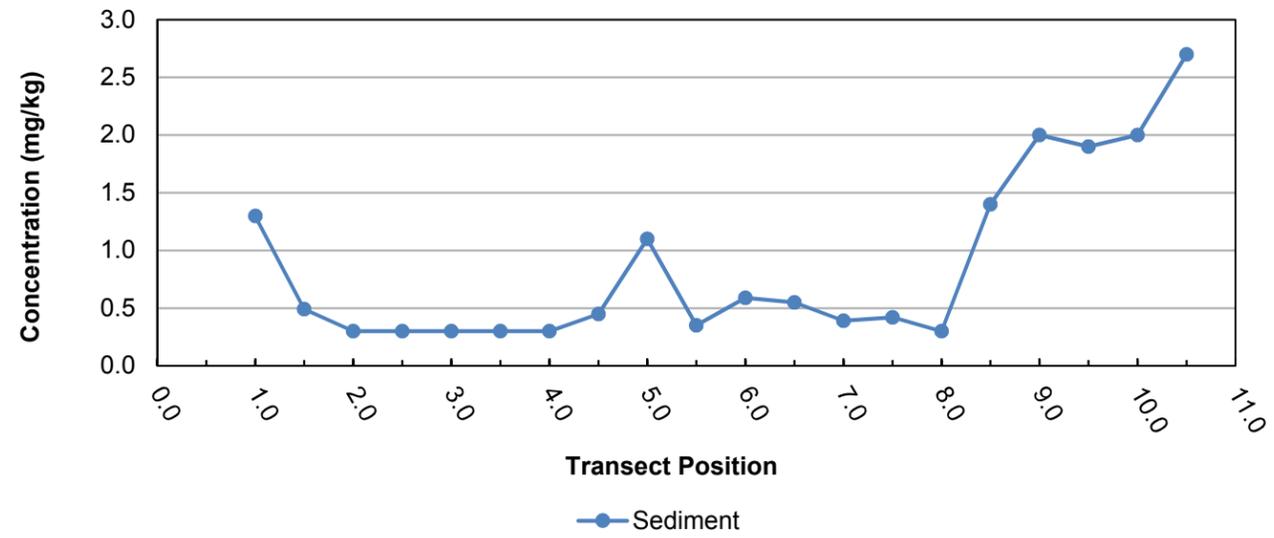


NOTES:
mg/kg - milligrams per kilogram

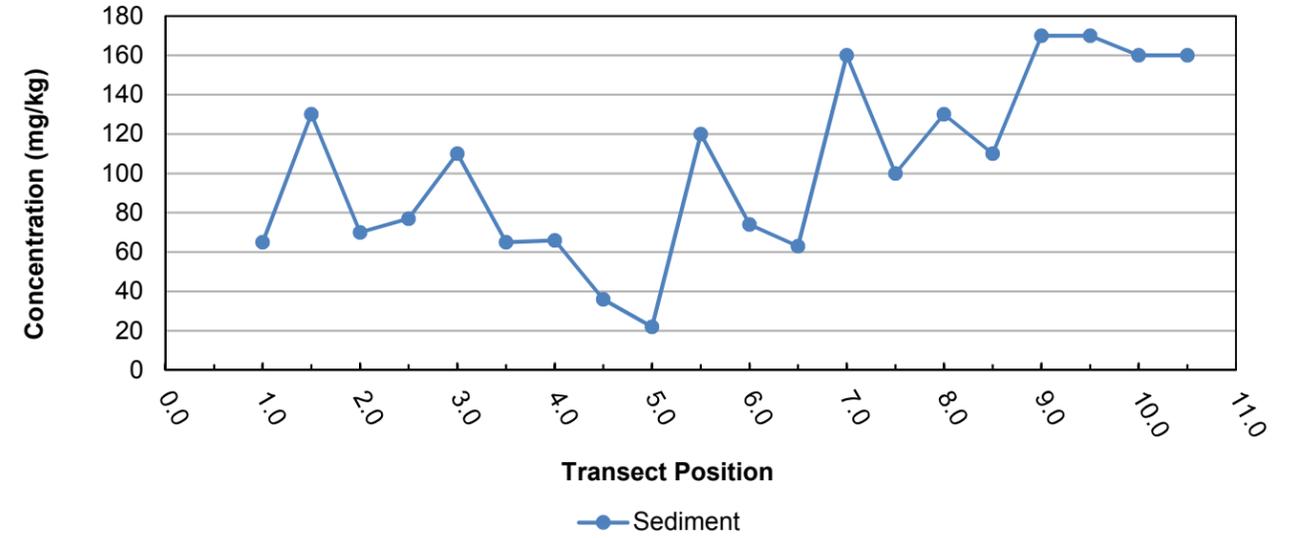
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
 SEDIMENT ASSESSMENT REPORT
 COASTAL RIVERS: HOMOSASSA, CHASSAHOWITZKA,
 AND WEEKI WACHEE
CONCENTRATIONS IN SEDIMENT
 Homosassa River
 October 2015



Dissolved Orthophosphate Concentrations in Sediment

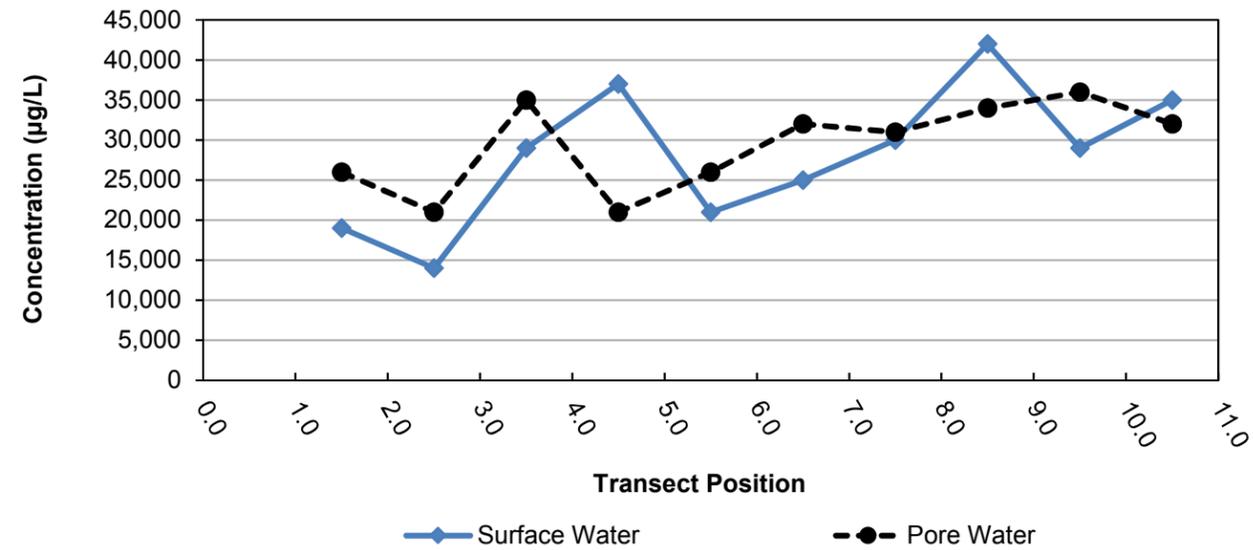


Total Phosphorus Concentrations in Sediment

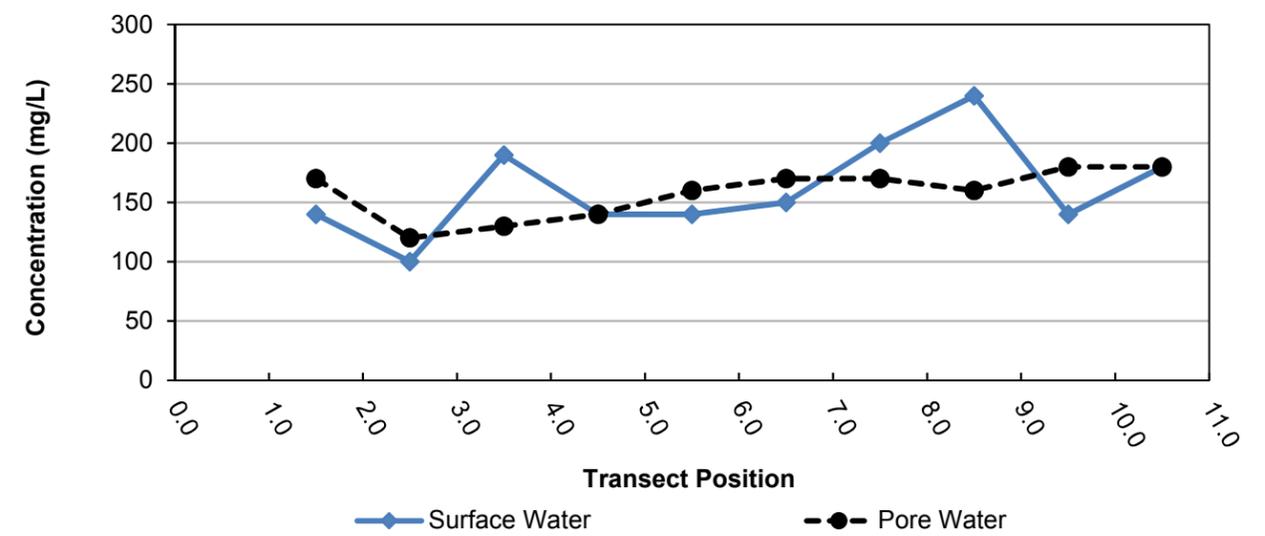


NOTES:
mg/kg - milligrams per kilogram

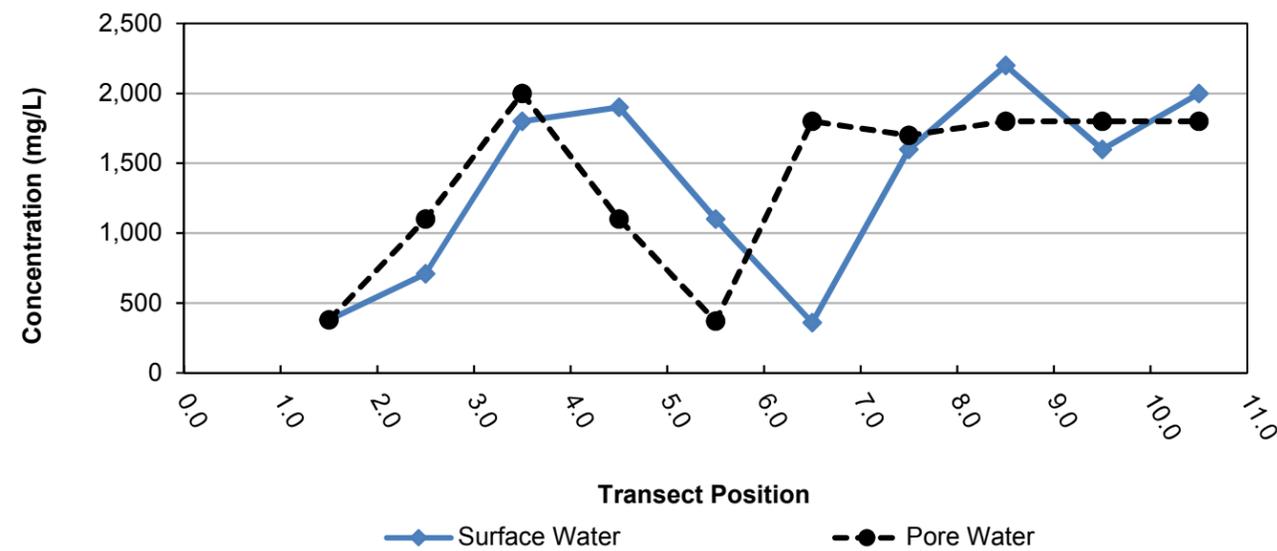
Potassium Concentrations in Water



Sulfate Concentrations in Water

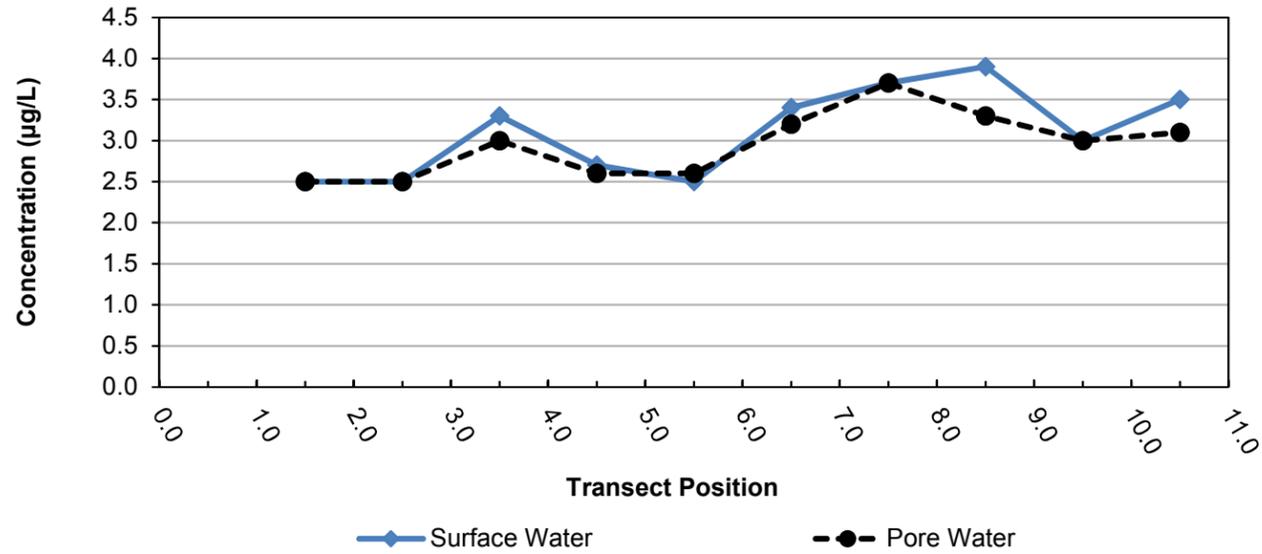


Chloride Concentrations in Water

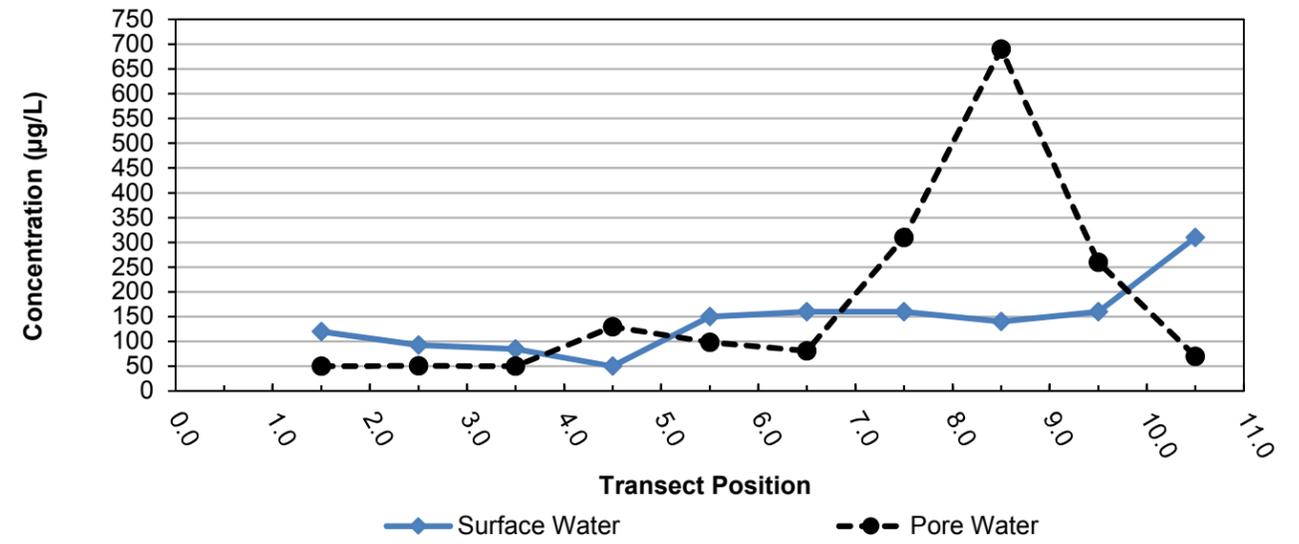


NOTES:
 mg/L - milligrams per liter
 µg/L - micrograms per liter

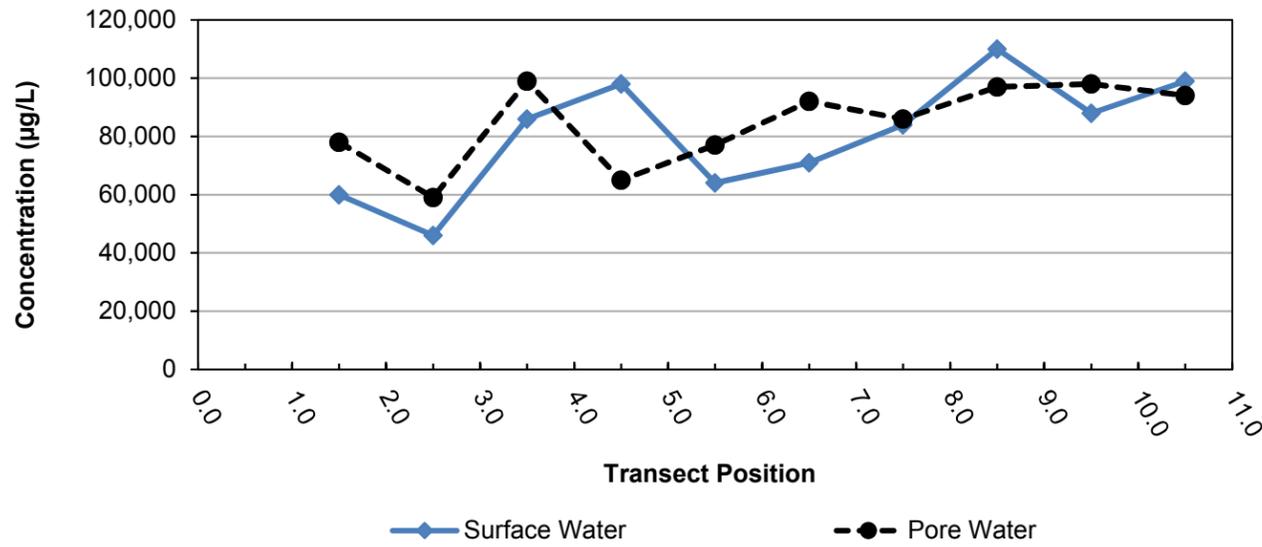
Copper Concentrations in Water



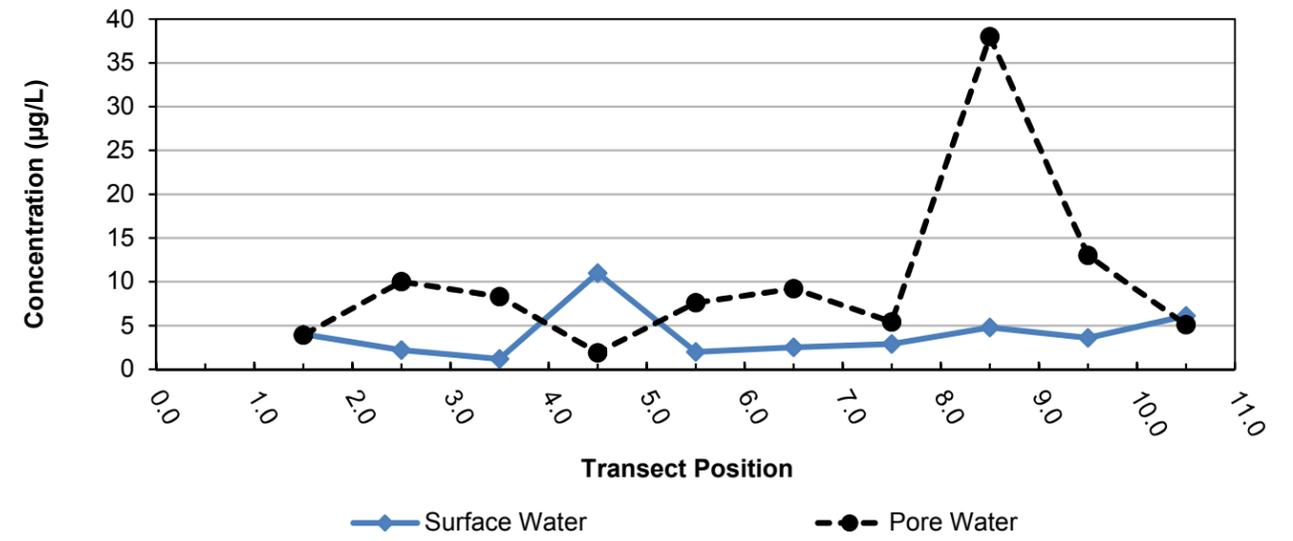
Iron Concentrations in Water



Magnesium Concentrations in Water



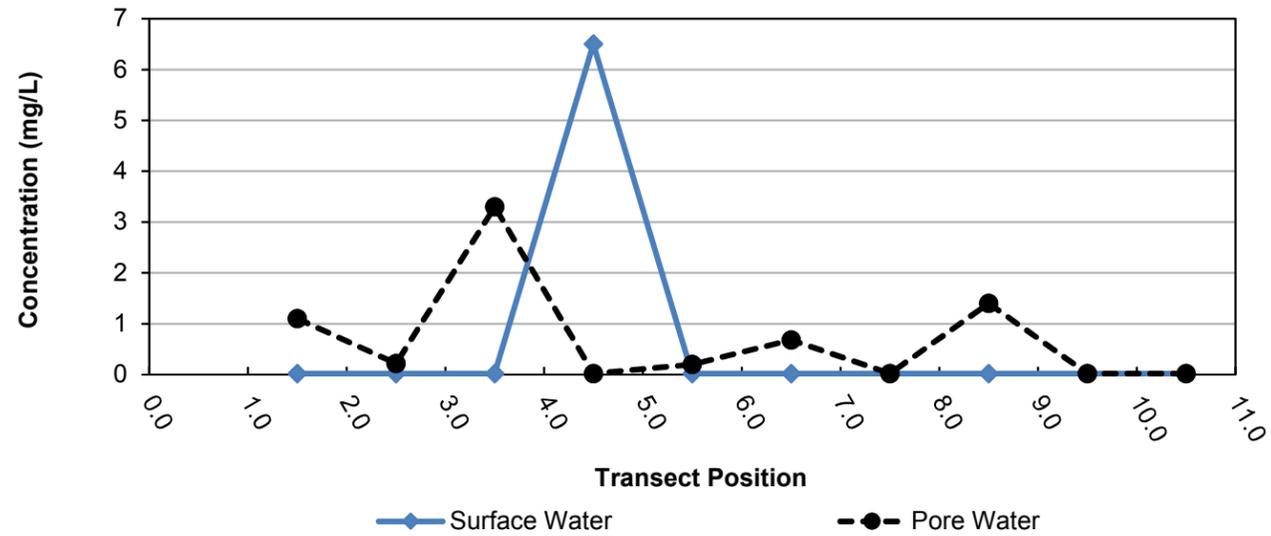
Manganese Concentrations in Water



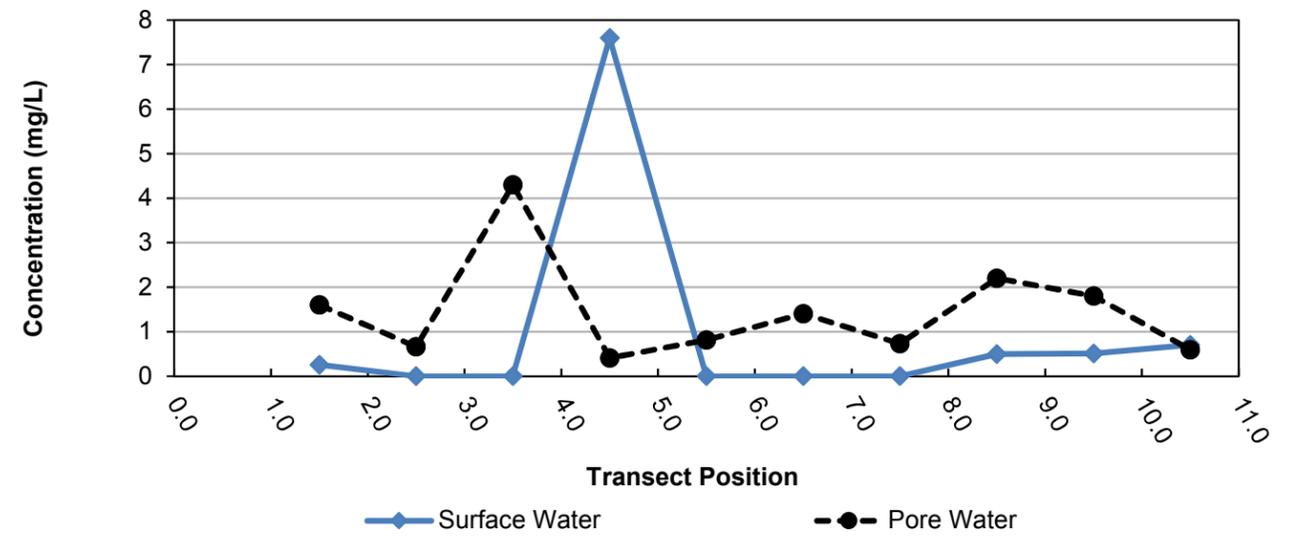
NOTES:
µg/L - micrograms per liter

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT SEDIMENT ASSESSMENT REPORT	
COASTAL RIVERS: HOMOSASSA, CHASSAHOWITZKA, AND WEEKI WACHEE	
CONCENTRATIONS IN WATER Homosassa River October 2015	
	GRAPH 4-9

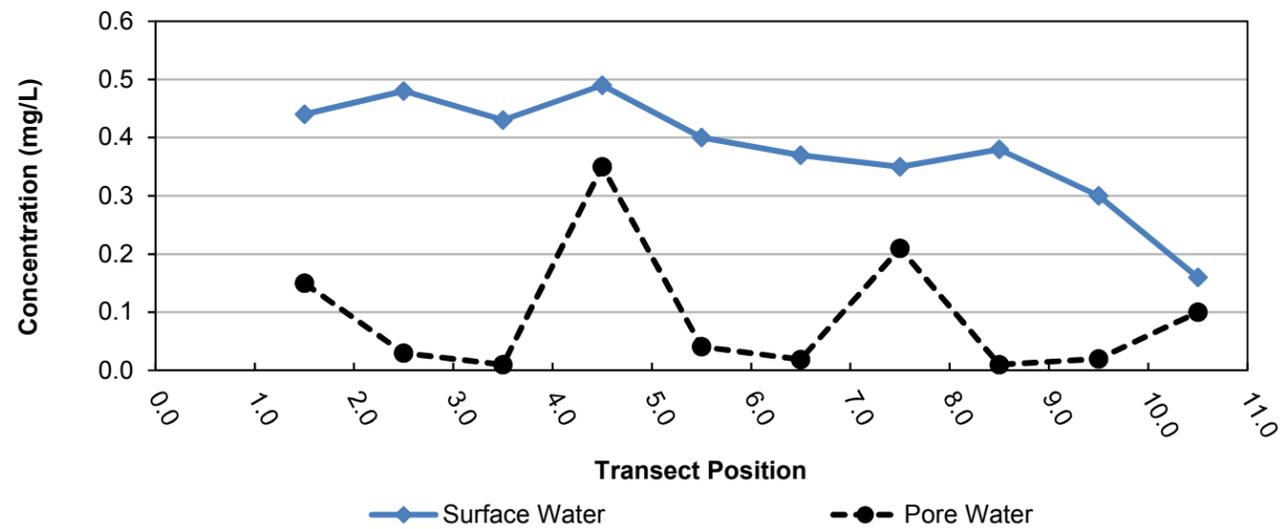
Ammonia (as N) Concentrations in Water



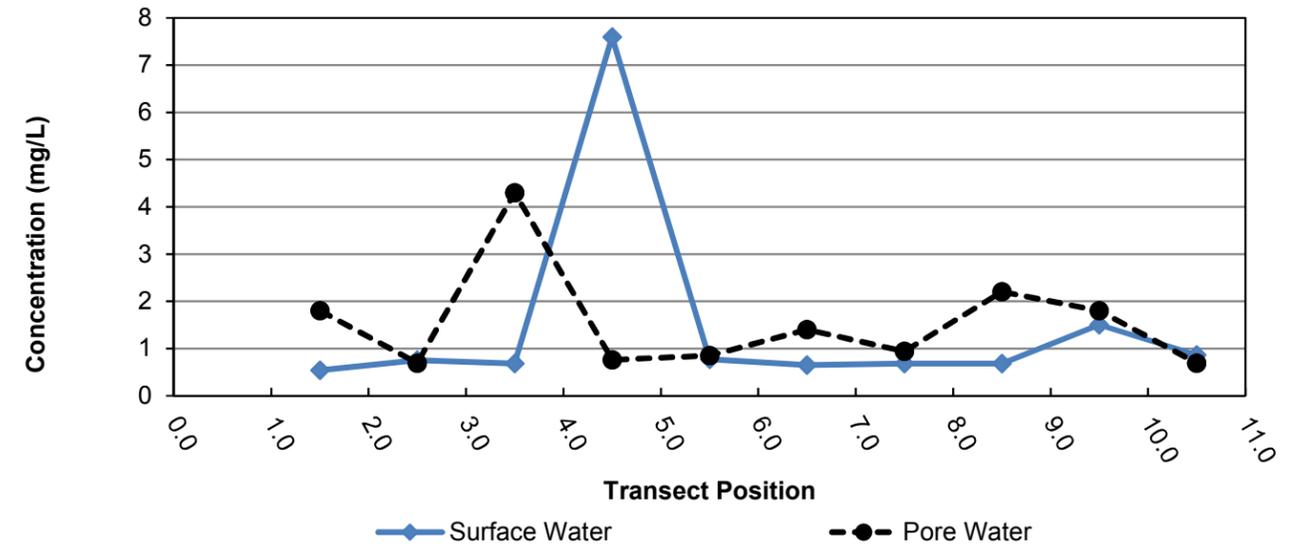
Total Kjeldahl Nitrogen Concentrations in Water



Nitrate as N Concentrations in Water

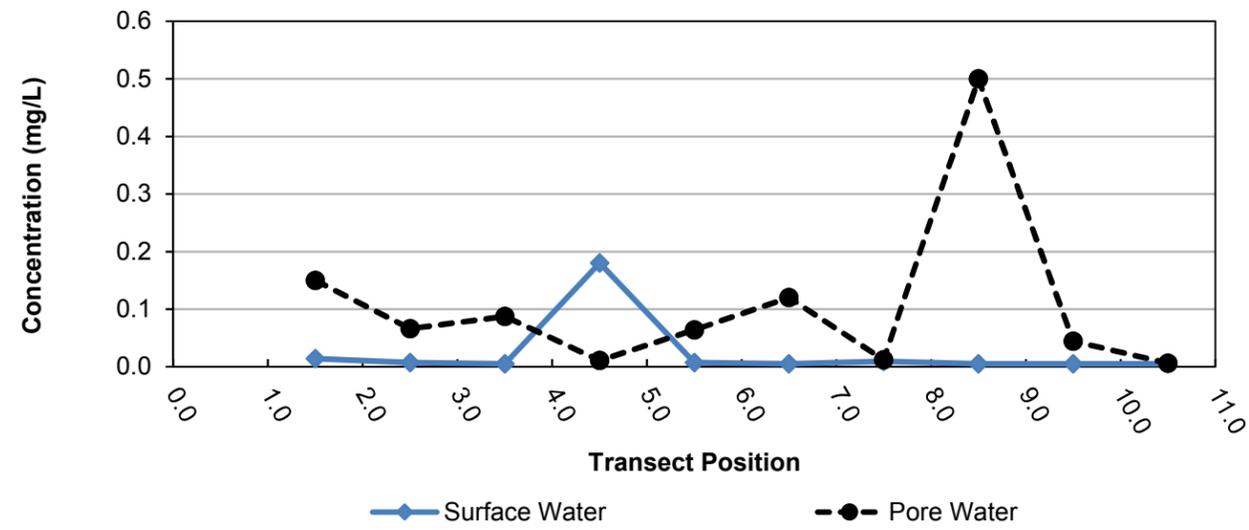


Total Nitrogen Concentrations in Water

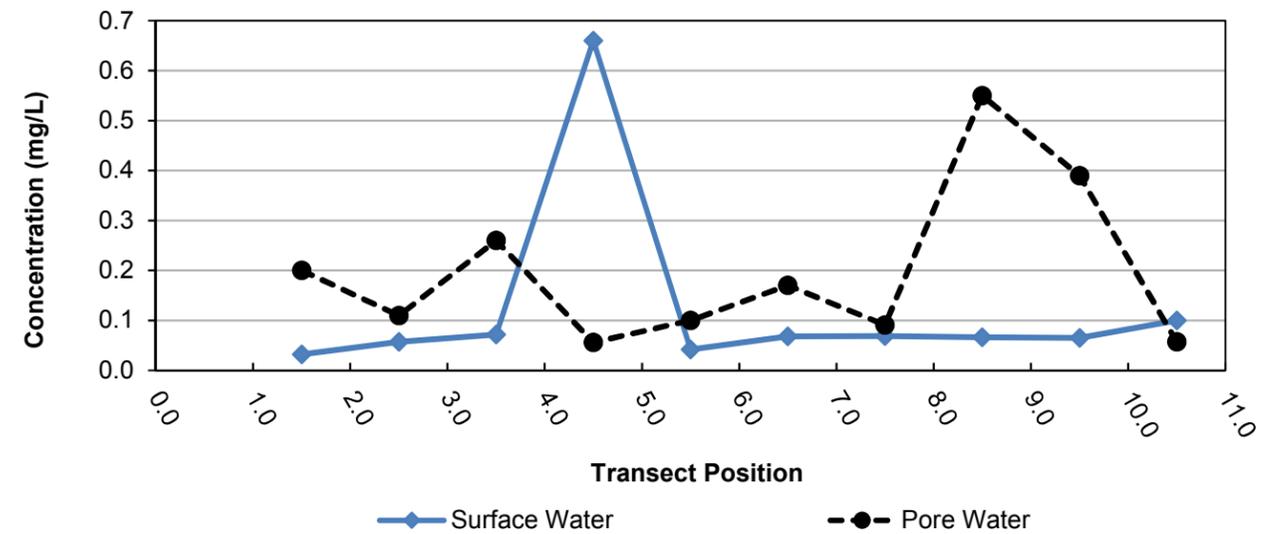


NOTES:
mg/L - milligrams per liter

Dissolved Orthophosphate Concentrations in Water



Total Phosphorus Concentrations in Water



NOTES:
mg/L - milligrams per liter

5 CHASSAHOWITZKA RIVER

The Chassahowitzka River study area (**Figure 5-1**) includes approximately 2.4 miles of river extending from its confluence at the salt marsh upstream to the main spring/boat dock area. The 20 transects in this reach are collocated with the historical SAV study transects (**Figure 5-2**). As provided by the District, GPS coordinates for the center of each transect are provided in **Table 5-1**.

5.1 Visual Observations

Observations were made of basic riverbank conditions from the approximate viewpoint of the near shore transect locations (stations 1 and 5). Riverbank surface morphology of the Chassahowitzka is primarily low relief wooded and grassy areas, with some minor docks and cabin-style residences in the lower reaches beyond transect 8.0. Moving upstream from transect 10.0, low relief marsh grass dominates with some palms to transect 6.5 where more hardwoods are present through to transect 0.5.

Two example views of typical riverbank conditions are shown below. Additional photos are provided in **Appendix C**.



Chassahowitzka, left bank, Transect 6.5; low relief with hardwoods.



Chassahowitzka, left bank, Transect 9.5; low relief with palms.

5.2 Probe Data

Probing measurements collected from the 20 transects are provided in **Table 5-2**. The measured sediment thicknesses are presented on **Figure 5-3**. As expected, areas of higher sediment accumulation are present at the edges compared to the mid-channel location where the majority of flow is conveyed. Overall thickness of sediment generally increases longitudinally downstream. The thickest sediment is encountered in two locations, near transect 6.0 and transect 8.5. The width of the river channel increases near the location of transect 6.0, coincident with the entrance of a tributary channel. Transect 8.5 is just upstream of a sharp bend in the river channel.

The area represented by each probing locations was determined using ESRI ArcGIS software and using the midpoint between each transect to set the longitudinal length and the midpoint between probing station to set the lateral width (**Figure 5-3**). The subareas were combined with the measured sediment thickness to estimate sediment volume across each transect, as outlined in **Table 5-2**. Sediment volume estimates are limited to depth of refusal for hand-sampling methods, and are a rough estimate due to spacing of the transects. These transect volumes sum to a minimum estimated total sediment volume of 8,954,202 cubic feet in the Chassahowitzka study area.

As can be seen in **Graph 5-1**, sediment thicknesses are relatively thin up near the headwaters and increase heading downstream with local variations controlled by the overall width of the channel (i.e., transects 5.5 and 9.0) and thickest sediment accumulations are found at transects 6.0 and 8.5. Probe logs and field observations are provided in **Appendix A**.

5.3 Sediment Data

A portion of the composited samples from 18 Chassohowitzka transects was sent to (MC2) for geotechnical analysis including grain size analysis, organic content (by loss on ignition), natural moisture content and specific gravity. Selected transect locations include 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 6.0, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5 and 10.0. Location 10.0 was sampled during the reconnaissance event. Photos of samples collected for visual description are provided in **Appendix C**.

The geotechnical laboratory report is provided in **Appendix B**, and results are shown in **Table 5-3**. Though still a minor fraction overall, silt content generally increases downstream of the tributary confluence near transect 6.0, transitioning from primarily fine sand to silty sand in the area of transect 8.5, both with trace organic detritus (**Figure 5-4**). This transition correlates with an overall increase in percent fines in the downstream direction. As shown in **Graph 5-2**, the percent fines and percent organic material appear to trend together. A significant longitudinal trend for organic content is not apparent. Lateral trends in sediment grain size and composition were not evaluated.

The analytical laboratory report is also provided in **Appendix B**, and results are provided in **Table 5-4**. Longitudinal trends of sediment chemical parameters are shown in **Graphs 5-3** thru **5-6**. All metals (copper, magnesium, potassium, manganese and iron) appear generally correlated along the reach of the study area. Potassium shows a slight differential in the upstream portion of the river reach. Inorganic compounds chloride and sulfate trend in a similar manner as well. No discernible trend is apparent for ammonia or nitrogen. Nutrients (total Kjeldahl nitrogen and phosphorus) show a similar trend, with the exception of a sharp increase in phosphorous at transect 2.5.

The increasing metals trend is shown in **Figure 5-5** for iron and manganese. The most notable longitudinal change occurs just downstream of the tributary confluence.

5.4 Aqueous Data

Results for aqueous chemical analyses are provided in **Table 5-5**. Longitudinal trends of paired surface water and pore water chemical parameters are also shown in **Graphs 5-7** thru **5-10**. The area of transect 5.5 shows an apparent differential between aqueous sources for metals copper, iron, manganese and magnesium. A nitrate differential is indicated at transect 1.5. Transect 3.5 shows an apparent differential of inorganic compounds chloride and sulfate, as well as phosphorus, orthophosphate, copper, magnesium and ammonia.

On **Figure 5-6**, the most notable differential is ammonia at transect 3.5. Paired data for iron and manganese are shown on **Figure 5-7**, with a larger downstream differential visible for iron. The analytical laboratory report is also provided in **Appendix B**.

5.5 Summary

Overall sediment character collected from the river bottom is mostly fine sand transitioning to silty sand in the area of transect 8.5, both with trace organic detritus. This transition correlates with an overall increase in percent fines in the downstream direction.

SEDIMENT ASSESSMENT REPORT

Sediment thickness in the Chassahowitzka River ranges from approximately 1 to 9 feet of penetrable thickness. A thick sequence at transect 6.0 appears at the confluence of a sizeable tributary, while thick sediments at transect 8.5 appear just upstream from a sharp bend in the river. A sharp bend will cause a sudden decrease in river velocity, allowing a release of sediment load in that area.

Though most notable sedimentological changes appear to be spatially associated with these morphological features, notable chemical changes appear to be related to features in the upstream portion of the river. Notable sediment concentrations of potassium and phosphorus occur at transects 3.5 and upstream. In those same transects, notable paired aqueous differentials are apparent for several nutrients and inorganic parameters. Whether the causative factors include small upstream tributaries, simple proximity to the spring head, or alternative aspects, is not yet known.

5.6 Recommendations

The above assessment data provide a first-order characterization of sediments in the Chassahowitzka River with a focus on the upper layer that has the most potential to influence SAV. Accompanying aqueous data is applied herein to supplement the sedimentological data, and provide a generalized view of area that may warrant additional study related to hydrologic and nutrient flux dynamics.

Once these data are compared with the SAV and macroinvertebrate assessments that were contracted coincidentally with this study; possible next steps for additional research may include:

- Hydrologic and nutrient flux studies, to consider ground-to-surface water impacts and partitioning.
- Finer scale sediment (longitudinal, lateral and potential vertical) assessment in impacted areas identified in current assessments.
- Chemical and contaminant assessment and characterization of contributing features such as canals and outfalls noted during reconnaissance.
- Additional sediment characterization correlated to confirmed bedrock surface and stratigraphic analysis.
- Evaluation of tidal cycle, GW-SW Interaction, and river velocities throughout river reach.
- Sediment transport modeling.
- Nutrient demand and limiting dynamics.
- Assessments similar to this on other area rivers.

5.7 Attachments

5.7.1 Tables

TABLE 5-1
Transect Location Coordinates
 Chassahowitzka River, October 2015
 March 2016 Sediment Assessment Report

RIVER	TRANSECT	STATION	MEAN LATITUDE	MEAN LONGITUDE
Chassahowitzka	0.5	3	28.71561	-82.57754
Chassahowitzka	1.0	3	28.71629	-82.57819
Chassahowitzka	1.5	3	28.71634	-82.57917
Chassahowitzka	2.0	3	28.71648	-82.58079
Chassahowitzka	2.5	3	28.71675	-82.58199
Chassahowitzka	3.0	3	28.71579	-82.58335
Chassahowitzka	3.5	3	28.71509	-82.58446
Chassahowitzka	4.0	3	28.71539	-82.58575
Chassahowitzka	4.5	3	28.71561	-82.58695
Chassahowitzka	5.0	3	28.71671	-82.58863
Chassahowitzka	5.5	3	28.71763	-82.5907
Chassahowitzka	6.0	3	28.71968	-82.59391
Chassahowitzka	6.5	3	28.72026	-82.59575
Chassahowitzka	7.0	3	28.72095	-82.59731
Chassahowitzka	7.5	3	28.72066	-82.59859
Chassahowitzka	8.0	3	28.71979	-82.60099
Chassahowitzka	8.5	3	28.7185	-82.603
Chassahowitzka	9.0	3	28.71527	-82.60363
Chassahowitzka	9.5	3	28.71481	-82.60653
Chassahowitzka	10.0	3	28.71472	-82.60861

TABLE 5-2
Sediment Volume and Thickness by Transect
 Chassahowitzka River, October 2015
 March 2016 Sediment Assessment Report

RIVER	TRANSECT	STATION NO.	GIS STATION ID	WATER DEPTH (ft)	SEDIMENT THICKNESS (ft)	STATION AREA (ft ²)	SEDIMENT VOLUME (ft ³)	STATION 1	STATION 2	STATION 3	STATION 4	STATION 5	MEAN
Chassahowitzka	0.5	1	CZ-0.5-1	3.50	0.5	11,884.7	5,942	0.5					1.05
Chassahowitzka	0.5	2	CZ-0.5-2	4.75	1.25	16,483.9	20,605		1.25				
Chassahowitzka	0.5	3	CZ-0.5-3	4.00	1.25	15,948.7	19,936			1.25			
Chassahowitzka	0.5	4	CZ-0.5-4	4.25	1.25	15,863.4	19,829				1.25		
Chassahowitzka	0.5	5	CZ-0.5-5	3.00	1	17,884.4	17,884					1	
Chassahowitzka	1.0	1	CZ-1-1	2.50	0.75	7,339.6	5,505	0.75					0.65
Chassahowitzka	1.0	2	CZ-1-2	3.25	0.25	7,433.8	1,858		0.25				
Chassahowitzka	1.0	3	CZ-1-3	3.50	0.5	7,344.4	3,672			0.5			
Chassahowitzka	1.0	4	CZ-1-4	3.75	1	6,293.1	6,293				1		
Chassahowitzka	1.0	5	CZ-1-5	3.50	0.75	8,792.6	6,594					0.75	
Chassahowitzka	1.5	1	CZ-1.5-1	2.00	0	16,534.0	0	0					0.95
Chassahowitzka	1.5	2	CZ-1.5-2	2.75	1.5	13,730.0	20,595		1.5				
Chassahowitzka	1.5	3	CZ-1.5-3	3.50	1.5	13,755.8	20,634			1.5			
Chassahowitzka	1.5	4	CZ-1.5-4	3.25	1.25	13,160.0	16,450				1.25		
Chassahowitzka	1.5	5	CZ-1.5-5	2.00	0.5	15,736.9	7,868					0.5	
Chassahowitzka	2.0	1	CZ-2-1	3.00	2	15,981.1	31,962	2					1.6
Chassahowitzka	2.0	2	CZ-2-2	3.50	0.25	17,619.9	4,405		0.25				
Chassahowitzka	2.0	3	CZ-2-3	4.50	2.5	18,539.6	46,349			2.5			
Chassahowitzka	2.0	4	CZ-2-4	3.75	1.5	18,513.7	27,771				1.5		
Chassahowitzka	2.0	5	CZ-2-5	2.75	1.75	18,899.0	33,073					1.75	
Chassahowitzka	2.5	1	CZ-2.5-1	3.25	0.5	25,290.5	12,645	0.5					0.744
Chassahowitzka	2.5	2	CZ-2.5-2	3.50	1	25,950.9	25,951		1				
Chassahowitzka	2.5	3	CZ-2.5-3	3.00	0.72	18,661.2	13,436			0.72			
Chassahowitzka	2.5	4	CZ-2.5-4	4.00	0.5	17,346.4	8,673				0.5		
Chassahowitzka	2.5	5	CZ-2.5-5	3.00	1	13,861.1	13,861					1	
Chassahowitzka	3.0	1	CZ-3-1	2.50	2.75	17,055.5	46,903	2.75					1.9
Chassahowitzka	3.0	2	CZ-3-2	3.75	2.25	18,251.1	41,065		2.25				
Chassahowitzka	3.0	3	CZ-3-3	3.75	1.75	20,303.8	35,532			1.75			
Chassahowitzka	3.0	4	CZ-3-4	4.25	0.75	17,362.2	13,022				0.75		
Chassahowitzka	3.0	5	CZ-3-5	4.25	2	24,533.7	49,067					2	
Chassahowitzka	3.5	1	CZ-3.5-1	3.50	1.75	11,404.2	19,957	1.75					1.3
Chassahowitzka	3.5	2	CZ-3.5-2	3.75	1.25	16,459.3	20,574		1.25				
Chassahowitzka	3.5	3	CZ-3.5-3	4.50	1	17,694.9	17,695			1			
Chassahowitzka	3.5	4	CZ-3.5-4	4.50	2	18,930.6	37,861				2		
Chassahowitzka	3.5	5	CZ-3.5-5	4.75	0.5	26,984.4	13,492					0.5	
Chassahowitzka	4.0	1	CZ-4-1	3.00	1.25	14,183.4	17,729	1.25					1.6
Chassahowitzka	4.0	2	CZ-4-2	5.00	1	13,997.2	13,997		1				
Chassahowitzka	4.0	3	CZ-4-3	4.25	1	13,021.9	13,022			1			
Chassahowitzka	4.0	4	CZ-4-4	3.50	2.75	12,866.8	35,384				2.75		
Chassahowitzka	4.0	5	CZ-4-5	3.00	2	16,212.2	32,424					2	
Chassahowitzka	4.5	1	CZ-4.5-1	2.50	1.25	17,175.2	21,469	1.25					1.25
Chassahowitzka	4.5	2	CZ-4.5-2	3.75	1.25	22,820.2	28,525		1.25				
Chassahowitzka	4.5	3	CZ-4.5-3	3.75	1	22,885.3	22,885			1			
Chassahowitzka	4.5	4	CZ-4.5-4	3.75	0.5	22,950.3	11,475				0.5		
Chassahowitzka	4.5	5	CZ-4.5-5	1.75	2.25	20,679.7	46,529					2.25	
Chassahowitzka	5.0	1	CZ-5-1	2.00	1.75	42,295.8	74,018	1.75					1.15
Chassahowitzka	5.0	2	CZ-5-2	2.00	1.25	36,433.9	45,542		1.25				
Chassahowitzka	5.0	3	CZ-5-3	2.00	0.75	42,921.7	32,191			0.75			
Chassahowitzka	5.0	4	CZ-5-4	2.25	0.75	44,271.3	33,203				0.75		
Chassahowitzka	5.0	5	CZ-5-5	1.75	1.25	33,265.0	41,581					1.25	

TABLE 5-2
Sediment Volume and Thickness by Transect
 Chassahowitzka River, October 2015
 March 2016 Sediment Assessment Report

RIVER	TRANSECT	STATION NO.	GIS STATION ID	WATER DEPTH (ft)	SEDIMENT THICKNESS (ft)	STATION AREA (ft ²)	SEDIMENT VOLUME (ft ³)	STATION 1	STATION 2	STATION 3	STATION 4	STATION 5	MEAN
Chassahowitzka	5.5	1	CZ-5.5-1	2.00	0.25	32,792.1	8,198	0.25					1.05
Chassahowitzka	5.5	2	CZ-5.5-2	1.75	1.5	44,296.4	66,445		1.5				
Chassahowitzka	5.5	3	CZ-5.5-3	2.25	0.25	46,977.1	11,744			0.25			
Chassahowitzka	5.5	4	CZ-5.5-4	1.50	1.5	47,248.8	70,873				1.5		
Chassahowitzka	5.5	5	CZ-5.5-5	1.25	1.75	48,190.6	84,334					1.75	
Chassahowitzka	6.0	1	CZ-6-1	1.50	8	54,347.3	434,778	8					3.45
Chassahowitzka	6.0	2	CZ-6-2	2.00	2.5	59,048.6	147,622		2.5				
Chassahowitzka	6.0	3	CZ-6-3	3.50	1.5	49,914.9	74,872			1.5			
Chassahowitzka	6.0	4	CZ-6-4	1.75	2.75	50,027.6	137,576				2.75		
Chassahowitzka	6.0	5	CZ-6-5	2.00	2.5	45,977.0	114,942					2.5	
Chassahowitzka	6.5	1	CZ-6.5-1	3.50	1.5	59,574.2	89,361	1.5					1.85
Chassahowitzka	6.5	2	CZ-6.5-2	3.25	1	63,449.9	63,450		1				
Chassahowitzka	6.5	3	CZ-6.5-3	2.00	3	63,716.9	191,151			3			
Chassahowitzka	6.5	4	CZ-6.5-4	3.25	2.25	63,983.7	143,963				2.25		
Chassahowitzka	6.5	5	CZ-6.5-5	3.00	1.5	64,734.0	97,101					1.5	
Chassahowitzka	7.0	1	CZ-7-1	2.50	3	85,370.5	256,112	3					2.65
Chassahowitzka	7.0	2	CZ-7-2	3.00	1.25	67,484.3	84,355		1.25				
Chassahowitzka	7.0	3	CZ-7-3	3.00	2.5	61,809.9	154,525			2.5			
Chassahowitzka	7.0	4	CZ-7-4	3.00	4	56,135.5	224,542				4		
Chassahowitzka	7.0	5	CZ-7-5	2.50	2.5	49,489.8	123,725					2.5	
Chassahowitzka	7.5	1	CZ-7.5-1	4.00	1	73,706.4	73,706	1					2.7
Chassahowitzka	7.5	2	CZ-7.5-2	3.00	2.75	78,369.4	215,516		2.75				
Chassahowitzka	7.5	3	CZ-7.5-3	3.00	2	76,020.2	152,040			2			
Chassahowitzka	7.5	4	CZ-7.5-4	2.50	3	73,670.9	221,013				3		
Chassahowitzka	7.5	5	CZ-7.5-5	1.50	4.75	75,093.7	356,695					4.75	
Chassahowitzka	8.0	1	CZ-8-1	2.75	0	82,867.7	0	0					1.3
Chassahowitzka	8.0	2	CZ-8-2	5.00	0	87,333.0	0		0				
Chassahowitzka	8.0	3	CZ-8-3	3.50	3	83,497.9	250,494			3			
Chassahowitzka	8.0	4	CZ-8-4	2.50	2	79,663.1	159,326				2		
Chassahowitzka	8.0	5	CZ-8-5	2.50	1.5	75,882.4	113,824					1.5	
Chassahowitzka	8.5	1	CZ-8.5-1	3.75	7.75	123,911.5	960,314	7.75					4.85
Chassahowitzka	8.5	2	CZ-8.5-2	5.50	5.5	90,822.0	499,521		5.5				
Chassahowitzka	8.5	3	CZ-8.5-3	5.00	5	92,575.2	462,876			5			
Chassahowitzka	8.5	4	CZ-8.5-4	2.75	4	89,910.0	359,640				4		
Chassahowitzka	8.5	5	CZ-8.5-5	1.50	2	88,913.3	177,827					2	
Chassahowitzka	9.0	1	CZ-9-1	3.00	2.75	59,420.1	163,405	3.00					2.65
Chassahowitzka	9.0	2	CZ-9-2	4.75	3	67,235.6	201,707		4.75				
Chassahowitzka	9.0	3	CZ-9-3	4.50	4	95,827.8	383,311			4.50			
Chassahowitzka	9.0	4	CZ-9-4	3.75	0.5	106,973.4	53,487				3.75		
Chassahowitzka	9.0	5	CZ-9-5	2.50	3	137,631.3	412,894					2.50	
Chassahowitzka	9.5	1	CZ-9.5-1	2.75	2.25	57,265.7	128,848	2.75					2.8
Chassahowitzka	9.5	2	CZ-9.5-2	6.00	4.5	66,383.4	298,725		6.00				
Chassahowitzka	9.5	3	CZ-9.5-3	6.25	2.5	67,935.8	169,839			6.25			
Chassahowitzka	9.5	4	CZ-9.5-4	3.50	2.75	69,487.9	191,092				3.50		
Chassahowitzka	9.5	5	CZ-9.5-5	2.50	2	79,888.5	159,777					2.50	
Chassahowitzka	10.0	1	CZ-10-1	2.50	2.25	36,436.4	81,982	2.50					3.2
Chassahowitzka	10.0	2	CZ-10-2	6.25	4.5	43,714.0	196,713		6.25				
Chassahowitzka	10.0	3	CZ-10-3	6.50	3.5	45,268.1	158,438			6.50			
Chassahowitzka	10.0	4	CZ-10-4	4.00	3.75	46,822.0	175,582				4.00		
Chassahowitzka	10.0	5	CZ-10-5	2.50	2	60,070.4	120,141					2.50	

ESTIMATED SEDIMENT VOLUME (FT³)

8,954,202

TABLE 5-3
Geotechnical Data
 Chassahowitzka River, October 2015
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Sample No.	Transect	Soil Description	USCS Class.	% of Total Soil (by weight) passing U.S. Standard Sieve Nos.								N M C (%)	LL (%)	PL (%)	PI (%)	Specific Gravity	(% Organic Content)
				1-inch	#4	#10	#20	#40	#60	#100	Fines #200						
CZ 0.5 SED	0.5	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM	–	–	100	100	98	89	69	6	39.0	NP	NP	NP	2.60	2.0
CZ 1.0 SED	1.0	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM	–	–	100	100	96	81	51	6	36.4	NP	NP	NP	2.60	1.9
CZ 1.5 SED	1.5	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM	–	–	100	100	96	80	56	7	49.8	NP	NP	NP	2.64	1.4
CZ 2.0 SED	2.0	Brown, dark gray fine SAND (SP)	SP	–	–	100	100	95	80	55	4	35.8	NP	NP	NP	2.62	1.8
CZ 2.5 SED	2.5	Brown, dark gray medium to fine SAND with silt (SP- SM)	SP-SM	–	–	100	100	94	78	57	9	67.5	NP	NP	NP	2.60	3.0
CZ 3.0 SED	3.0	Brown, dark gray fine SAND (SP)	SP	–	–	100	100	97	84	52	4	43.4	NP	NP	NP	2.65	1.5
CZ 3.5 SED	3.5	Brown, dark gray silty fine SAND (SM)	SM	–	–	100	100	98	90	72	16	86.6	NP	NP	NP	2.58	4.4
CZ 4.0 SED	4.0	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM	–	–	100	99	97	89	69	11	114.4	NP	NP	NP	2.55	6.0
CZ 4.5 SED	4.5	Brown, dark gray fine SAND (SP)	SP	–	–	100	100	94	78	55	5	38.4	NP	NP	NP	2.61	1.2
CZ 5.0 SED	5.0	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM	–	–	100	100	95	81	57	8	37.4	NP	NP	NP	2.64	2.3
CZ 5.5 SED	5.5	Brown, dark gray fine SAND (SP)	SP	–	–	100	100	96	84	66	4	36.7	NP	NP	NP	–	–
CZ 6.0 SED	6.0	Brown, dark gray fine SAND (SP)	SP	–	–	100	100	94	77	59	3	26.5	NP	NP	NP	2.67	0.8
CZ 6.5 SED	6.5	Brown, dark gray fine SAND (SP)	SP	–	–	100	100	97	87	71	4	27.0	NP	NP	NP	–	–
CZ 7.0 SED	7.0	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM	–	–	100	100	97	86	66	5	26.7	NP	NP	NP	2.61	1.0
CZ 7.5 SED	7.5	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM	–	–	100	100	97	88	61	7	54.6	NP	NP	NP	2.60	2.0
CZ 8.0 SED	8.0	Brown, dark gray silty fine SAND (SM)	SM	–	–	100	99	96	85	69	15	76.7	NP	NP	NP	2.57	4.3
CZ 8.5 SED	8.5	Brown, dark gray silty fine SAND (SM)	SM	–	–	100	99	98	90	70	15	89.8	NP	NP	NP	2.56	5.0
CZ 9.0 SED	9.0	Brown, dark gray medium to fine SAND with silt (SP- SM)	SP-SM	–	–	100	100	95	80	57	8	45.7	NP	NP	NP	2.63	2.4
CZ 9.5 SED	9.5	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM	–	–	100	100	96	85	59	11	62.2	NP	NP	NP	2.58	3.5
CZ 10.0 SED	10.0	Dark C to F SAND with silt and shell (SP-SM)	SP-SM	100	73	60	59	56	48	40	10	67.8	NP	NP	NP	2.47	4.8

Footnotes:

- % - percent
- C - coarse
- F - fine
- LL - liquid limit
- NMC - natural moisture content
- NP - non-plastic
- PI - plasticity index
- PL - plastic limit
- SED - sediment
- SM - silty sand
- SP - sand
- SP-SM - sand with silt
- USCS - Unified Soil Classification System
- no sample

TABLE 5-4
Sediment Analytical Results
 Chassahowitzka River, October 2015
 March 2016 Sediment Assessment Report

Sample ID Sample Collection Date	CZ 0.5 SED (10/14/15) 10/14/15 10:00	CZ 1.0 SED (10/14/15) 10/14/15 11:51	CZ 1.5 SED (10/14/15) 10/14/15 12:01	CZ 2.0 SED (10/14/15) 10/14/15 12:50	CZ 2.5 SED (10/14/15) 10/14/15 14:30	CZ 3.0 SED (10/15/15) 10/15/15 9:30	CZ 3.5 SED (10/15/15) 10/15/15 9:55	CZ 4.0 SED (10/15/15) 10/15/15 11:00	CZ 4.5 SED (10/15/15) 10/15/15 11:40	CZ 5.0 SED (10/15/15) 10/15/15 14:30	
Parameter	Units										
Metals by 6010B											
Copper	mg/kg	2.4	3.8	0.75 I	0.89 I	0.80 I	0.75 I	1.4	1.3	0.72 I	1.2
Iron	mg/kg	1400	1600	860	1000	980	860	1000	1200	510	750
Magnesium	mg/kg	190	200	95	130	200	190	320	320	140	170
Manganese	mg/kg	1.6 V	2.3 V	1.4 V	1.9 V	0.76 I V	0.98 V	1.4 V	2.2 V	1.2	2.0
Potassium	mg/kg	24 I	29 I	21 I	32 I	30 I	34 I	54 I	55 I	25 I	24 I
Wet Chemistry by 350.1											
Ammonia (as N), Dissolved	mg/kg	1.0	2.1	2.9	0.91 I	0.32 U	0.56 I	2.9	1.3	2.5	1.5
Wet Chemistry by 351.2											
Total Kjeldahl Nitrogen	mg/kg	330	330	100	280	310	270	600	800	410	690
Wet Chemistry by 353.2											
Nitrate Nitrite as N, Dissolved	mg/kg	0.35 J3 U	0.35 U	0.36 U	0.35U	0.36 U	0.36 U	0.35 U	0.36 U	0.36 U	0.36 U
Wet Chemistry by 354.1											
Nitrite as N, Dissolved	mg/kg	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 J3 U	0.36 U	0.36 U	0.36 U
Wet Chemistry by 365.1											
Orthophosphate, Dissolved	mg/kg	0.62 I	2.0	0.55 I	0.30 U	0.30 U	0.30 J3 U	0.30 U	0.30 U	0.34 I	0.30 U
Wet Chemistry by 365.4											
Phosphorus, Total	mg/kg	78	64	30	52	300	37	69	86	71	69
Wet Chemistry by 9038											
Sulfate, Dissolved	mg/kg	370 J3	110	250	280	410	280	570	490	200	360
Wet Chemistry by 9251											
Chloride, Dissolved	mg/kg	440	400	260	350	860	460	1500	1300	420	410
Wet Chemistry by Nitrate by calc											
Nitrate as N, Dissolved	mg/kg	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Wet Chemistry by Total Nitrogen											
Nitrogen, Total	mg/kg	330	330	100	280	310	270	600	800	410	690

Footnotes on Page 2.

TABLE 5-4
Sediment Analytical Results
 Chassahowitzka River, October 2015
 March 2016 Sediment Assessment Report

Sample ID Sample Collection Date	CZ 5.5 SED (10/15/15) 10/15/15 15:10	CZ 6.0 SED (10/15/15) 10/15/15 15:55	CZ 6.5 SED (10/16/15) 10/16/15 9:05	CZ 7.0 SED (10/16/15) 10/16/15 10:10	CZ 7.5 SED (10/16/15) 10/16/15 10:50	CZ 8.0 SED (10/16/15) 10/16/15 12:25	CZ 8.5 SED (10/16/15) 10/16/15 13:45	CZ 9.0 SED (10/16/15) 10/16/15 15:35	CZ 9.5 SED (10/16/15) 10/16/15 16:00	CZ 10 SED (08/12/15) 08/12/15 16:00	
Parameter	Units										
Metals by 6010B											
Copper	mg/kg	0.57 I	0.37 I	0.36 I	0.47 I	0.45 I	1.1	1.0	0.58 I	0.78 I	0.81 I
Iron	mg/kg	360	430	610	790	1100	2400	2400	1400	2200	3600 J3
Magnesium	mg/kg	95	120	120	170	240	470	490	330	460	890
Manganese	mg/kg	1.3	2.0	1.9	1.5	2.4	5.8	6.6	4.7	5.7	16
Potassium	mg/kg	21 I	32 I	35 I	47 I	42 I	72 I	81 I	61 I	89 I	160
Wet Chemistry by 350.1											
Ammonia (as N), Dissolved	mg/kg	1.8	3.4	2.4	1.4	0.63 I	1.9	1.8	1.6	1.4	0.93 I J3
Wet Chemistry by 351.2											
Total Kjeldahl Nitrogen	mg/kg	230	210	200J3	320	410	730	1200	650	720	230 J3
Wet Chemistry by 353.2											
Nitrate Nitrite as N, Dissolved	mg/kg	0.35 J3 U	0.37 I	0.35 U	0.35U	0.35U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Wet Chemistry by 354.1											
Nitrite as N, Dissolved	mg/kg	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Wet Chemistry by 365.1											
Orthophosphate, Dissolved	mg/kg	0.30 U	1.2	0.94 I	0.30 U	0.30 U	2.6				
Wet Chemistry by 365.4											
Phosphorus, Total	mg/kg	36	32	36 J3	72	59	110	220	160	130	110 J3
Wet Chemistry by 9038											
Sulfate, Dissolved	mg/kg	26 U	26 U	26 U	27U	41 I	85 I	120	46 I	120	200
Wet Chemistry by 9251											
Chloride, Dissolved	mg/kg	320	280	360	370	440	730	880	640	900	1100
Wet Chemistry by Nitrate by calc											
Nitrate as N, Dissolved	mg/kg	0.36 U	0.37 I	0.36 U	0.36 U	0.36 U					
Wet Chemistry by Total Nitrogen											
Nitrogen, Total	mg/kg	230	210	200	320	410	730	120	650	720	230

Footnotes:

mg/kg - milligrams per kilogram

SED - sediment

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

I J3 - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

I V - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J3 - Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

J3 U - Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

J3 V - 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.

V - Indicates that the analyte was detected at or above the method detection limit 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

TABLE 5-5
Surface Water and Pore Water Analytical Results
 Chassahowitzka River, October 2015
 March 2016 Sediment Assessment Report

Sample ID Sample Collection Date Laboratory Order Number	CZ 0.5 SW (10/14/15) 10/14/15 10:15 660-69823-2	CZ 0.5 PW (10/14/15) 10/14/15 10:15 660-69823-3	CZ 1.5 SW (10/14/15) 10/14/15 12:48 660-69823-6	CZ 1.5 PW (10/14/15) 10/14/15 12:48 660-69823-7	CZ 2.5 SW (10/14/15) 10/14/15 14:45 660-69823-10	CZ 2.5 PW (10/14/15) 10/14/15 14:45 660-69823-11	CZ 3.5 SW (10/15/15) 10/15/15 10:15 660-69852-1	CZ 3.5 PW (10/15/15) 10/15/15 10:15 660-69852-2	CZ 4.5 SW (10/15/15) 10/15/15 12:05 660-69852-3	CZ 4.5 PW (10/15/15) 10/15/15 12:05 660-69852-4	
Field Parameters	Units										
Temperature	C	24.03	23.98	24.9	24.76	25.38	25.27	23.03	23.41	24.44	24.15
Conductivity	µS/cm	1048	4000	2431	2196	2352	7866	2437	8199	3494	6268
pH	SU	7.56	7.21	7.73	7.55	7.63	7.25	6.79	6.92	7.53	7.31
DO	%	61.6	34.8	81.5	61.9	104.4	66.9	20.1	76.2	16.5	16.5
DO	mg/L	5.17	2.9	6.68	5.07	8.49	2.11	5.69	1.64	6.3	1.32
ORP	mV	245.5	230.6	197.7	214.8	229.1	241.1	378.6	185.5	102.6	-49.3
Turbidity	NTU	0.23	2.67	0.8	5.21	0.77	4	1.02	2.53	1.13	1.03
Metals by 6010B											
Copper	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.8 I	2.5 U	3.3 I	2.6 I	4.0 I
Copper, Dissolved	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.7 I	2.5 U	2.9 I	2.6 I	3.1 I
Iron	µg/L	50 U	50 U	100 I	110 I	82 I	50 U	85 I	50 U	150 I	57 I
Iron, Dissolved	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Magnesium	µg/L	22000 J3	75000	47000	43000	46000	130000	48000	150000	66000	110000
Magnesium, Dissolved	µg/L	24000	74000	48000	44000	45000	130000	52000	150000	67000	110000
Manganese	µg/L	1.0 U	1.0 U	1.8 I	1.0 U	1.3 I	3.0 U	1.8 I	1.7 I	1.5 I	2.6 I
Manganese, Dissolved	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Potassium	µg/L	4700	28000	15000	13000	14000	56000	15000	59000	22000	41000
Potassium, Dissolved	µg/L	5100	27000	15000	13000	14000	56000	16000	61000	23000	40000
Wet Chemistry by 350.1											
Ammonia (as N)	mg/L	0.020 U	0.052	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U	0.87	0.020 U	0.22
Wet Chemistry by 351.2											
Total Kjeldahl Nitrogen	mg/L	0.26 J3 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.91	0.26 U	0.26 U
Wet Chemistry by 353.2											
Nitrate Nitrite as N	mg/L	0.44	0.20	0.48	0.71	0.43	0.032 I	0.49	0.018 U	0.40	0.018 U
Nitrite as N	mg/L	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Wet Chemistry by 365.1											
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry by 365.2											
Orthophosphate, Dissolved	mg/L	0.014	0.038	0.014	0.019	0.011	0.016	0.0090 I	0.15	0.0080 I	0.056
Wet Chemistry by 365.4											
Phosphorus, Total	mg/L	0.032 U	0.032 U	0.077 I V	0.12 V	0.035 I V	0.048 I V	0.032 U	0.18 V	0.049 I V	0.085 I V
Wet Chemistry by Nitrate by calc											
Nitrate as N	mg/L	0.44	0.20	0.48	0.71	0.43	0.032	0.49	0.010 U	0.40	0.010 U
Nitrate Nitrite as N	mg/L	0.44	0.20	0.48	0.71	0.43	0.032	0.49	0.010 U	0.40	0.010 U
Wet Chemistry by SM 4500 Cl- E											
Chloride	mg/L	71	1300 J3	670	350	370	2500	390	2900	380	2200
Wet Chemistry by SM 4500 SO4 E											
Sulfate	mg/L	22	160	77	68	88	310	94	240	110	200
Wet Chemistry by SM3500_FE_D											
Ferrous Iron	µg/L	20 Q U	20 Q U	20Q U	20 Q U	20 Q U	20 Q U	82 Q	71 Q	120 Q	99 Q
Wet Chemistry by Total Nitrogen											
Nitrogen, Total	mg/L	0.44 I	0.26 U	0.48 I	0.71	0.43 I	0.26 U	0.49 I	0.91	0.40 I	0.26 U

Footnotes on Page 2.

TABLE 5-5
Surface Water and Pore Water Analytical Results
 Chassahowitzka River, October 2015
 March 2016 Sediment Assessment Report

Sample ID Sample Collection Date Laboratory Order Number	CZ 5.5 SW (10/15/15) 10/15/15 15:20 660-69852-5	CZ 5.5 PW (10/15/15) 10/15/15 15:20 660-69852-6	CZ 6.5 SW (10/16/15) 10/16/15 9:25 660-69879-1	CZ 6.5 PW (10/16/15) 10/16/15 9:25 660-69879-2	CZ 7.5 SW (10/16/15) 10/16/15 11:20 660-69879-3	CZ 7.5 PW (10/16/15) 10/16/15 11:20 660-69879-4	CZ 8.5 SW (10/16/15) 10/16/15 14:05 660-69879-5	CZ 8.5 PW (10/16/15) 10/16/15 14:05 660-69879-6	CZ 10 SW (08/12/15) 08/12/15 13:26 660-68566-1	CZ 10 PW (08/12/15) 08/12/15 15:00 660-68566-2	
Field Parameters	Units										
Temperature	C	26	25.31	21.62	22.79	23.16	23.79	24.67	24.9	26	22.26
Conductivity	µS/cm	3378	3805	3472	4281	4003	5364	4386	5462	4887	5820
pH	SU	7.76	7.49	6.81	7.03	7.42	7.35	7.76	7.37	7.73	7.01
DO	%	106.6	26.8	48.7	14.1	72.5	12.3	80.6	14.8	82.6	16
DO	mg/L	8.56	2.1	4.24	1.19	6.13	1.02	6.6	1.21	6.71	2.4
ORP	mV	154.1	89.1	305.4	20.06	211.4	-251.8	94.4	-261.3	99.1	-330.2
Turbidity	NTU	2.61	1.66	0.66	3.08	1.42	2.26	3.94	2.69	7.21	2.92
Metals by 6010B											
Copper	µg/L	3.1 I	3.0 I	2.9 I	3.1 I	2.7 I	2.7 I	2.7 I	2.7 I	3.4 I	3.6 I
Copper, Dissolved	µg/L	2.5 U	2.5 U	2.5 I	2.5 U	2.5 I	2.6 I	2.5 I	3.1 I	3.3 I	3.4 I
Iron	µg/L	170 I	360	73 I	280	50 U	220	50 U	340	340	87 I
Iron, Dissolved	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U	61 I	61 I	50 U
Magnesium	µg/L	62000 J3	67000	67000	83000	76000	98000	81000	96000	96000	150000
Magnesium, Dissolved	µg/L	65000	69000	67000	84000	76000	99000	85000	100000	96000	160000
Manganese	µg/L	1.6 I	9.3	1.5 I	5.0	2.7 I	4.7	3.3 I	8.2	7.0	5.2
Manganese, Dissolved	µg/L	1.0 U	5.0	1.0 U	4.6	1.0 U	3.8 I	1.0 U	4.4	1.0 U	2.0 U
Potassium	µg/L	20000	23000	22000	27000	26000	36000	27000	35000	37000	69000
Potassium, Dissolved	µg/L	21000	23000	22000	27000	25000	36000	28000	36000	37000	71000
Wet Chemistry by 350.1											
Ammonia (as N)	mg/L	0.020 U	0.19	0.020 U	0.19	0.020 U	1.0	0.020 U	1.7	0.26	0.95
Wet Chemistry by 351.2											
Total Kjeldahl Nitrogen	mg/L	0.26 J3 U	0.31 I	0.26 U	0.43 I	0.26 U	1.4	0.43 I	2.2	0.83	1.6
Wet Chemistry by 353.2											
Nitrate Nitrite as N	mg/L	0.37	0.034 I	0.35	0.018 U	0.38	0.018 U	0.30 J3	0.018 U	0.17	0.025 I
Nitrite as N	mg/L	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0053 I	0.0050 U
Wet Chemistry by 365.1											
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	0.036	0.091
Wet Chemistry by 365.2											
Orthophosphate, Dissolved	mg/L	0.0070 I	0.057	0.0070 I	0.060	0.12	0.16	0.018	0.27	0.019	0.070
Wet Chemistry by 365.4											
Phosphorus, Total	mg/L	0.032 U	0.10	0.032 U	0.047 I	0.032 U	0.17	0.20	0.34	NA	NA
Wet Chemistry by Nitrate by calc											
Nitrate as N	mg/L	0.37	0.034	0.35	0.010 U	0.38	0.010 U	0.30	0.010 U	0.16	0.025
Nitrate Nitrite as N	mg/L	0.37	0.034	0.35	0.010 U	0.38	0.010 U	0.30	0.010 U	0.17	0.025
Wet Chemistry by SM 4500 Cl- E											
Chloride	mg/L	880	1200 J3	590	1500	1400	1900	1500	1900	1700	3200
Wet Chemistry by SM 4500 SO4 E											
Sulfate	mg/L	120	150	78 I	130	140	200	160	170	230	340
Wet Chemistry by SM3500_FE_D											
Ferrous Iron	µg/L	110 Q	380 Q	69 Q	390 Q	99 Q	56 Q	120 Q	97 Q	260 Q	150 Q
Wet Chemistry by Total Nitrogen											
Nitrogen, Total	mg/L	0.37 I	0.34 I	0.35 I	0.43 I	0.38 I	1.4	0.73	2.2	1.0	1.6

Footnotes:

mg/L - milligrams per liter

µg/L - micrograms/liter

MDL - method detection limit

PQL - practical quantitation limit

I - The reported value is between the laboratory MDL and the laboratory PQL.

I Q - The reported value is between the laboratory MDL and the laboratory PQL.

I V - The reported value is between the laboratory MDL and the laboratory PQL.

J3 - Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

J3 U - Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

J3 V - Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

Q - Sample held beyond the accepted holding time.

NA - not analyzed

Q U - Sample held beyond the accepted holding time.

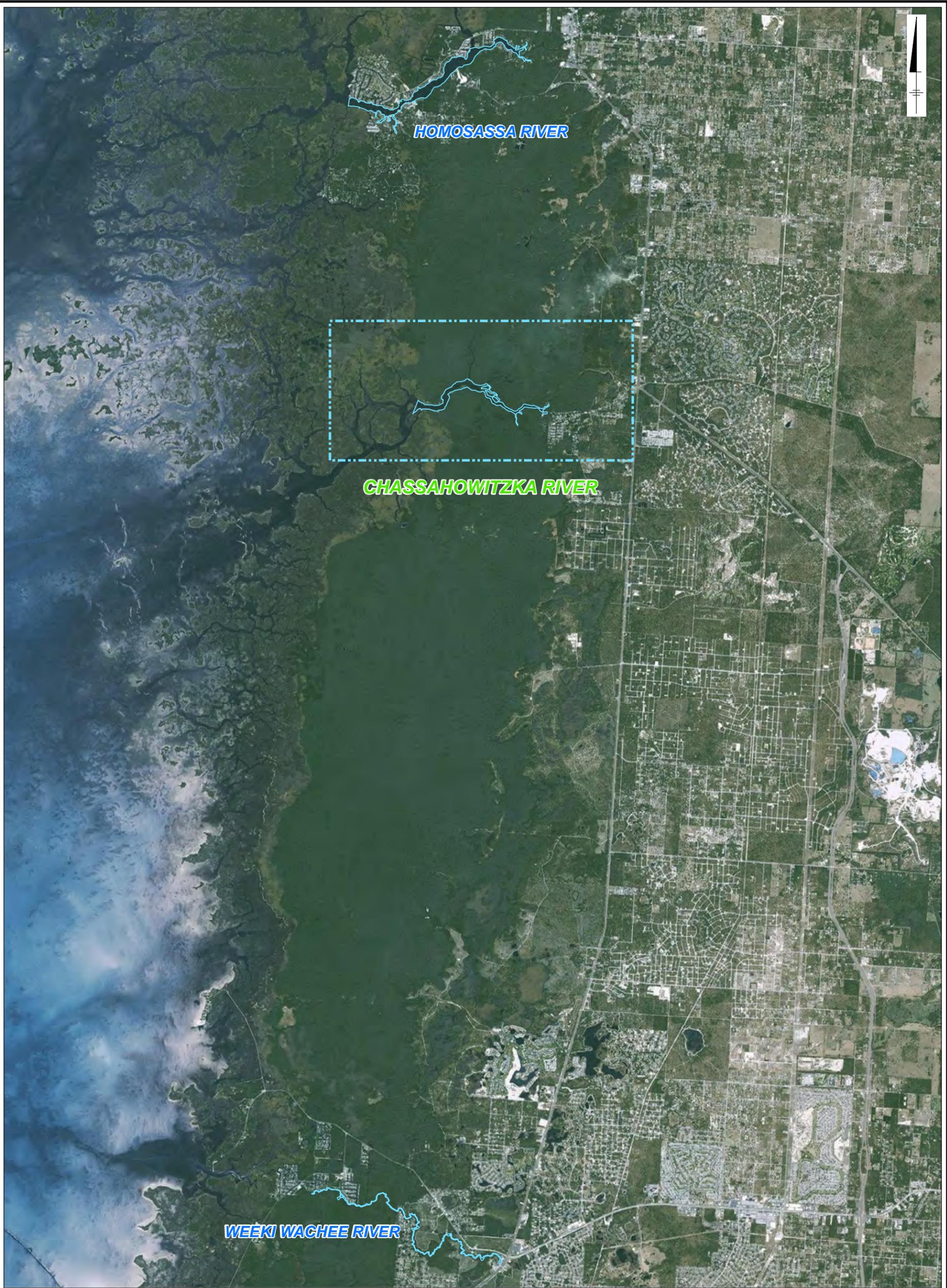
U - Indicates that the compound was analyzed for but not detected.

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.

SW - surface water

PW - pore water

5.7.2 Figures



LEGEND:
 STUDY AREA SHORELINE

Prepared for:
 Southwest Florida Water Management District

Imagery Source: ESRI World Imagery
 Imagery date 8/12/2013

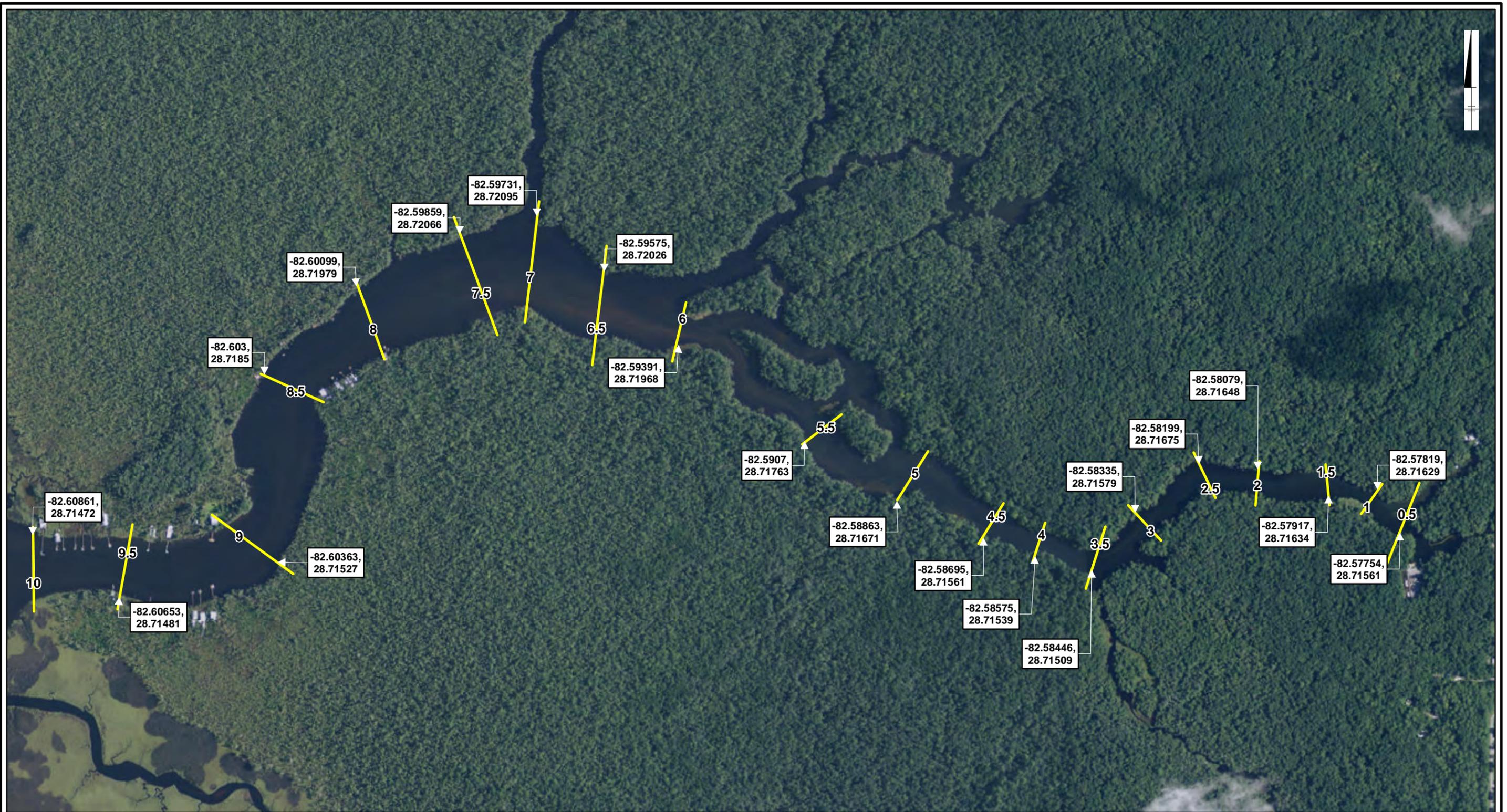


**COASTAL RIVERS SEDIMENT
 ASSESSMENT STUDY AREA**

March 2016 Sediment Assessment Report



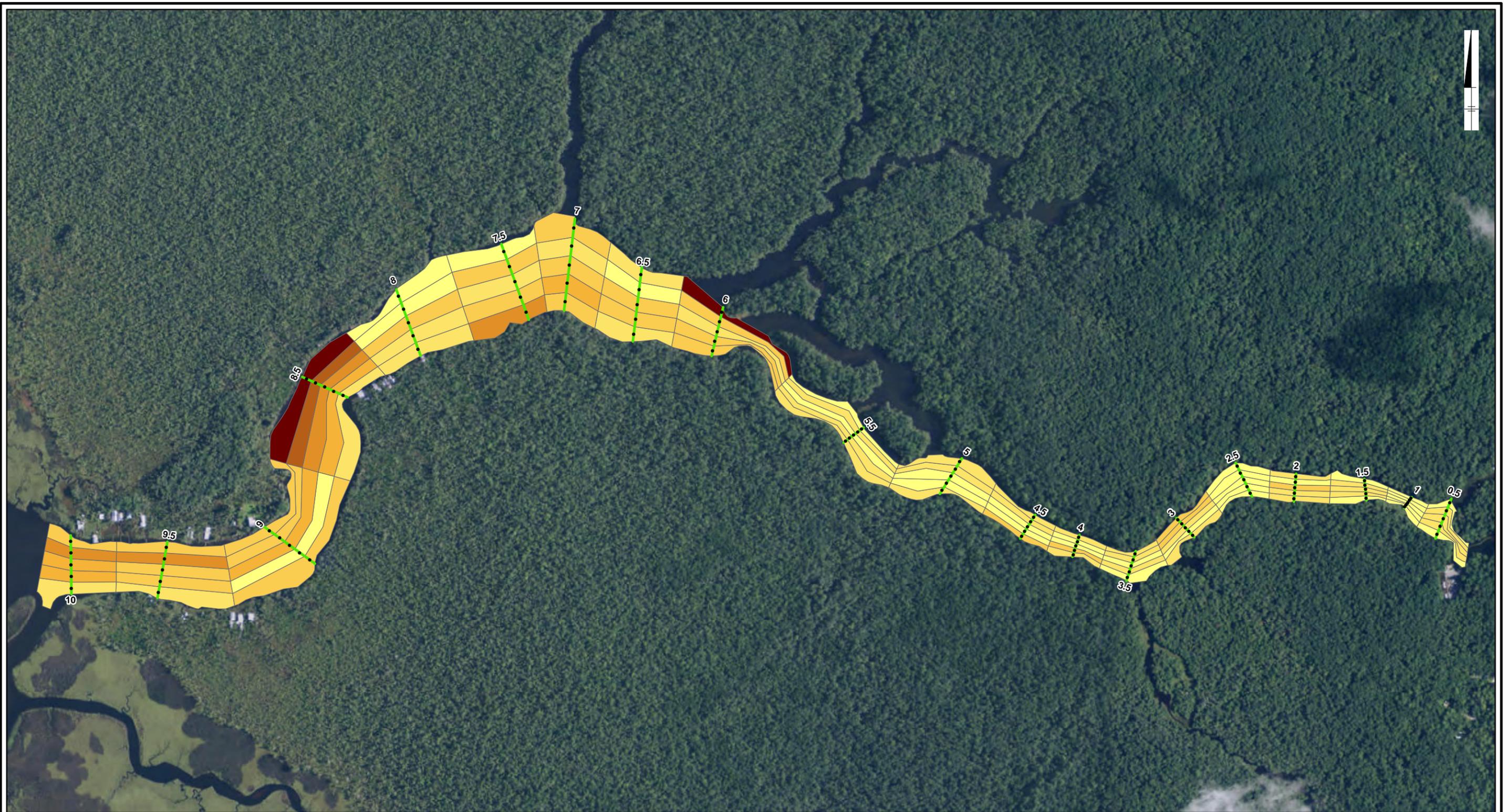
**FIGURE
 5-1**



LEGEND:

— TRANSECT LOCATION AND IDENTIFICATION

Prepared for: Southwest Florida Water Management District	CHASSAHOWITZKA TRANSECT LOCATIONS
Imagery Source: ESRI World Imagery Imagery date 8/12/2013	March 2016 Sediment Assessment Report
<p>0 700 1,400 Feet GRAPHIC SCALE</p>	<p>ARCADIS Design & Consultancy for natural and built assets</p>
	FIGURE 5-2



LEGEND:

- ROD LOCATION
 - TRANSECT LOCATION
- SEDIMENT THICKNESS, FT**
- 0 - 1
 - 1 - 2
 - 2 - 3
 - 3 - 4
 - 4 - 5
 - 5 - 6
 - 6 - 7
 - 8 - 9

NOTES:
 FT: FEET
 SAMPLING DATES: OCTOBER 14 - 16, 2015

Prepared for:
 Southwest Florida Water Management District

Imagery Source: ESRI World Imagery
 Imagery date 8/12/2013

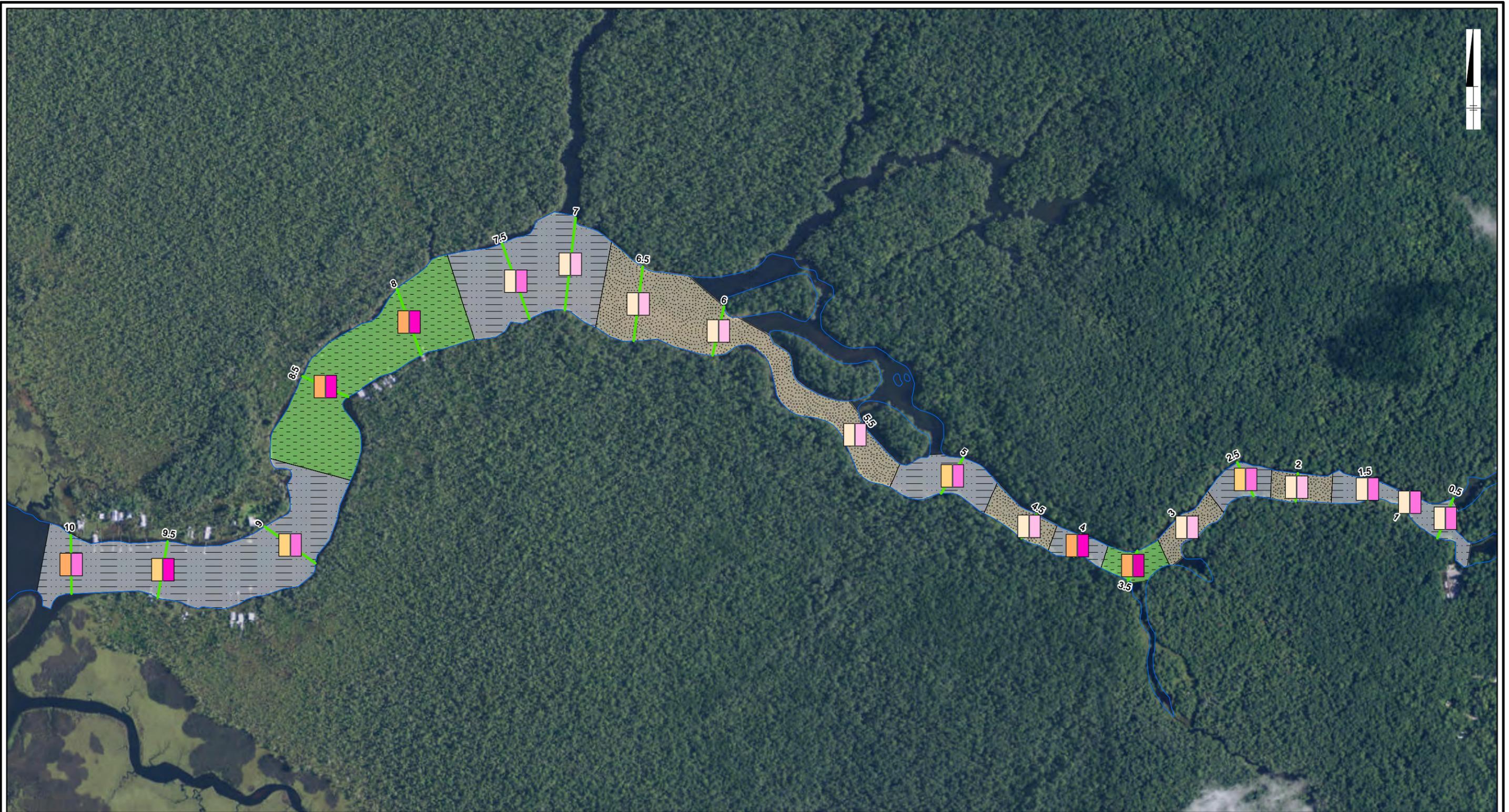
0 700 1,400 Feet
 GRAPHIC SCALE

**CHASSAHOWITZKA TRANSECTS
 SEDIMENT THICKNESS**

March 2016 Sediment Assessment Report

ARCADIS Design & Consultancy
 for natural and built assets

**FIGURE
 5-3**



LEGEND:

% ORGANICS	% FINES	PRIMARY LITHOLOGY
<2	< 5	SAND
2 - 4	5 - 10	SAND WITH SILT
4 - 6	10 - 15	SILTY SAND
6 - 8	15 - 20	TRANSECT LOCATION
8 - 10	20 - 25	
	25 - 30	

VALUES PRESENTED ARE IN PERCENT OF TOTAL VOLUME OF SEDIMENT
 SAMPLING DATES: OCTOBER 14 - 16, 2015

Prepared for:
 Southwest Florida Water Management District

Imagery Source: ESRI World Imagery
 Imagery date 8/12/2013

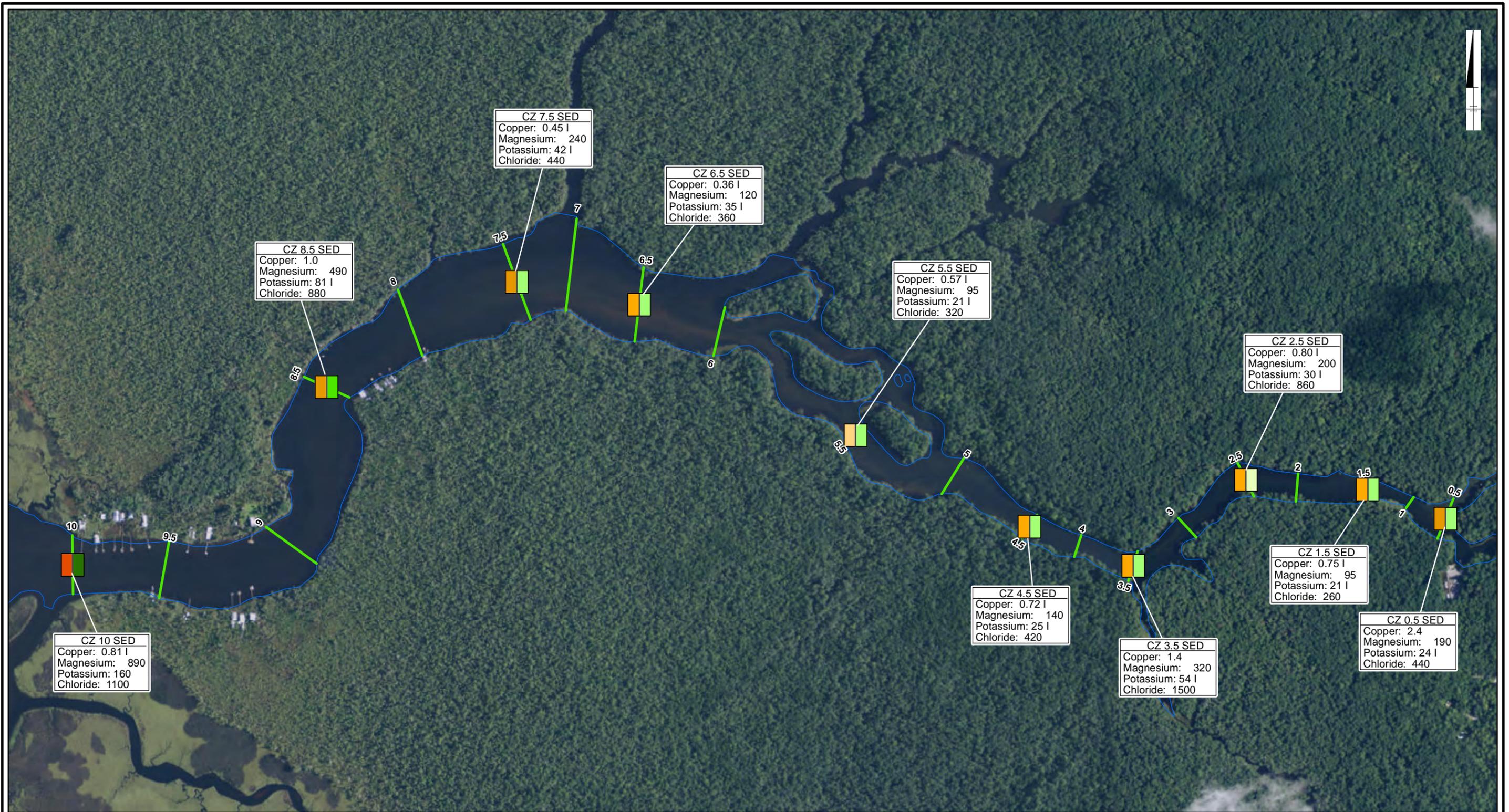
0 700 1,400 Feet
 GRAPHIC SCALE

**CHASSAHOWITZKA TRANSECTS
 SEDIMENT CHARACTER**

March 2016 Sediment Assessment Report

ARCADIS Design & Consultancy for natural and built assets

FIGURE 5-4



CZ 10 SED
 Copper: 0.81 l
 Magnesium: 890
 Potassium: 160
 Chloride: 1100

CZ 8.5 SED
 Copper: 1.0
 Magnesium: 490
 Potassium: 81 l
 Chloride: 880

CZ 7.5 SED
 Copper: 0.45 l
 Magnesium: 240
 Potassium: 42 l
 Chloride: 440

CZ 6.5 SED
 Copper: 0.36 l
 Magnesium: 120
 Potassium: 35 l
 Chloride: 360

CZ 5.5 SED
 Copper: 0.57 l
 Magnesium: 95
 Potassium: 21 l
 Chloride: 320

CZ 4.5 SED
 Copper: 0.72 l
 Magnesium: 140
 Potassium: 25 l
 Chloride: 420

CZ 3.5 SED
 Copper: 1.4
 Magnesium: 320
 Potassium: 54 l
 Chloride: 1500

CZ 2.5 SED
 Copper: 0.80 l
 Magnesium: 200
 Potassium: 30 l
 Chloride: 860

CZ 1.5 SED
 Copper: 0.75 l
 Magnesium: 95
 Potassium: 21 l
 Chloride: 260

CZ 0.5 SED
 Copper: 2.4
 Magnesium: 190
 Potassium: 24 l
 Chloride: 440

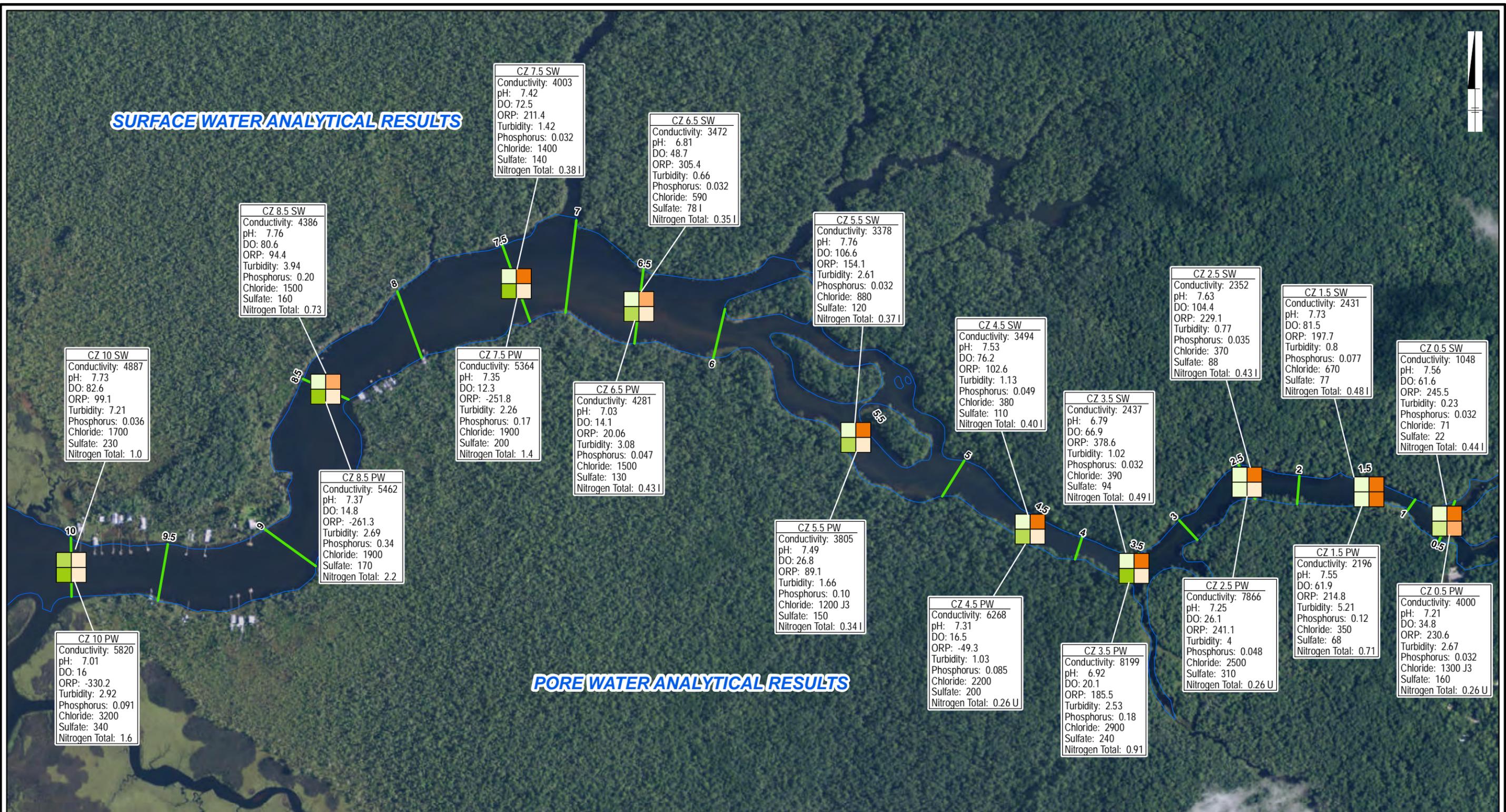
LEGEND:

IRON	MANGANESE	TRANSECT LOCATION
0 - 50	0 - 1	SHORELINE
50 - 100	1 - 3	
100 - 500	3 - 5	ALL RESULTS ARE REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg)
500 - 1000	5 - 10	SAMPLING DATES: OCTOBER 14 - 16, 2015
1000 - 3000	10 - 15	
> 3000	> 15	

<p>Prepared for: Southwest Florida Water Management District</p>	<p>CHASSAHOWITZKA TRANSECTS IRON AND MANGANESE RESULTS SEDIMENT</p>
<p>Imagery Source: ESRI World Imagery Imagery date 8/12/2013</p>	<p>March 2016 Sediment Assessment Report</p>
<p>0 700 1,400 Feet GRAPHIC SCALE</p>	<p>ARCADIS Design & Consultancy for natural and built assets FIGURE 5-5</p>

SURFACE WATER ANALYTICAL RESULTS

PORE WATER ANALYTICAL RESULTS



LEGEND:

	SURFACE WATER AMMONIA RESULT		AMMONIA CONCENTRATION 0.02		NITRATE CONCENTRATION 0.00 - 0.18		TRANSECT LOCATION
	PORE WATER AMMONIA RESULT		AMMONIA CONCENTRATION 0.03 - 0.12		NITRATE CONCENTRATION 0.19 - 0.36		SHORELINE
	SURFACE WATER NITRATE RESULT		AMMONIA CONCENTRATION 0.13 - 0.26		NITRATE CONCENTRATION 0.37 - 0.71		
	PORE WATER NITRATE RESULT		AMMONIA CONCENTRATION 0.27 - 6.50				

SAMPLING DATES: OCTOBER 14 - 16, 2015

REPORTING UNITS

Ammonia	mg/L
Nitrate	mg/L
Conductivity	µS/cm
pH	SU
Dissolved Oxygen	mg/L
ORP	mV
Turbidity	NTU
Phosphorus	mg/L
Chloride	mg/L
Sulfate	mg/L
Nitrogen_Total	mg/L

Prepared for:
Southwest Florida Water Management District

Imagery Source: ESRI World Imagery
Imagery date 8/12/2013

0 700 1,400 Feet
GRAPHIC SCALE

**CHASSAHOWITZKA TRANSECTS
AMMONIA AND NITRATE RESULTS**

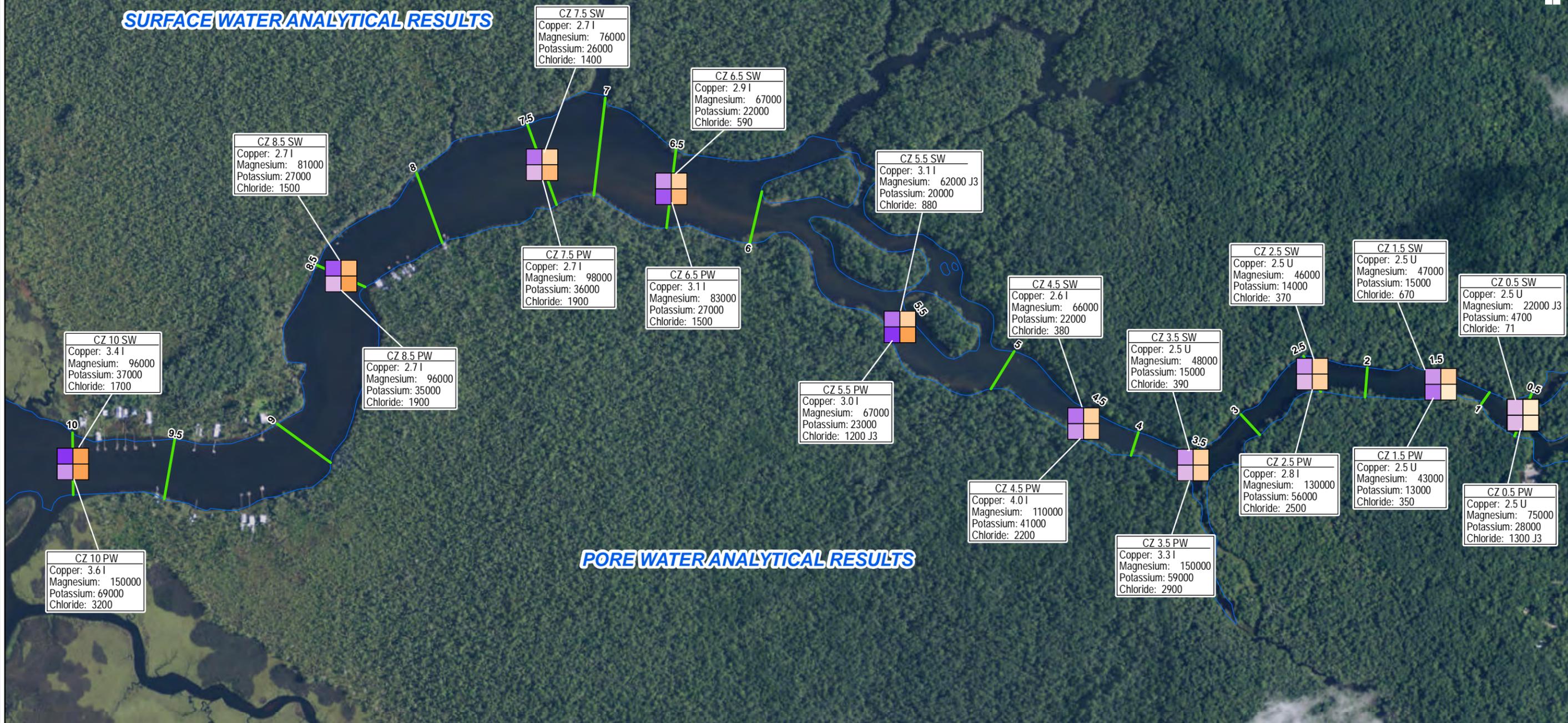
March 2016 Sediment Assessment Report

ARCADIS Design & Consultancy for natural and built assets

FIGURE 5-6

SURFACE WATER ANALYTICAL RESULTS

PORE WATER ANALYTICAL RESULTS



LEGEND:

	SURFACE WATER IRON RESULT		IRON CONCENTRATION		MANGANESE CONCENTRATION		TRANSECT LOCATION
	PORE WATER IRON RESULT		0 - 50		0 - 1		SHORELINE
	SURFACE WATER MANGANESE RESULT		50 - 100		1 - 3	REPORTING UNITS	
	PORE WATER MANGANESE RESULT		100 - 200		3 - 5	Iron	µg/L
			200 - 300		5 - 10	Manganese	µg/L
			300 - 400		10 - 25	Copper	µg/L
			> 400		> 25	Magnesium	µg/L
						Potassium	µg/L
						Chloride	mg/L

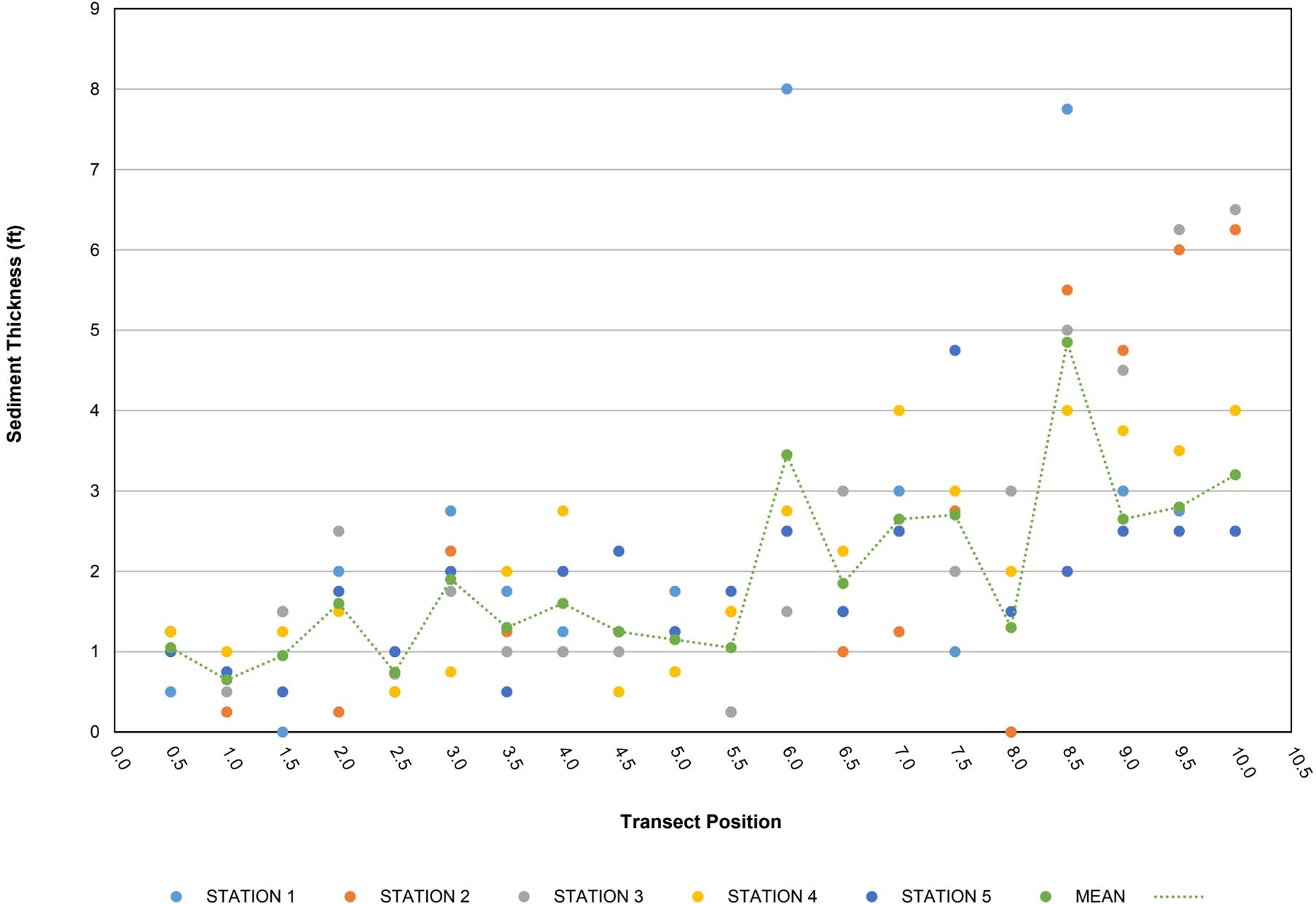
SAMPLING DATES: OCTOBER 14 - 16, 2015

<p>Prepared for: Southwest Florida Water Management District</p>	<p>CHASSAHOWITZKA TRANSECTS IRON AND MANGANESE RESULTS</p>
<p>Imagery Source: ESRI World Imagery Imagery date 8/12/2013</p>	<p>March 2016 Sediment Assessment Report</p>
<p>0 700 1,400 Feet GRAPHIC SCALE</p>	<p> ARCADIS Design & Consultancy for natural and built assets</p>

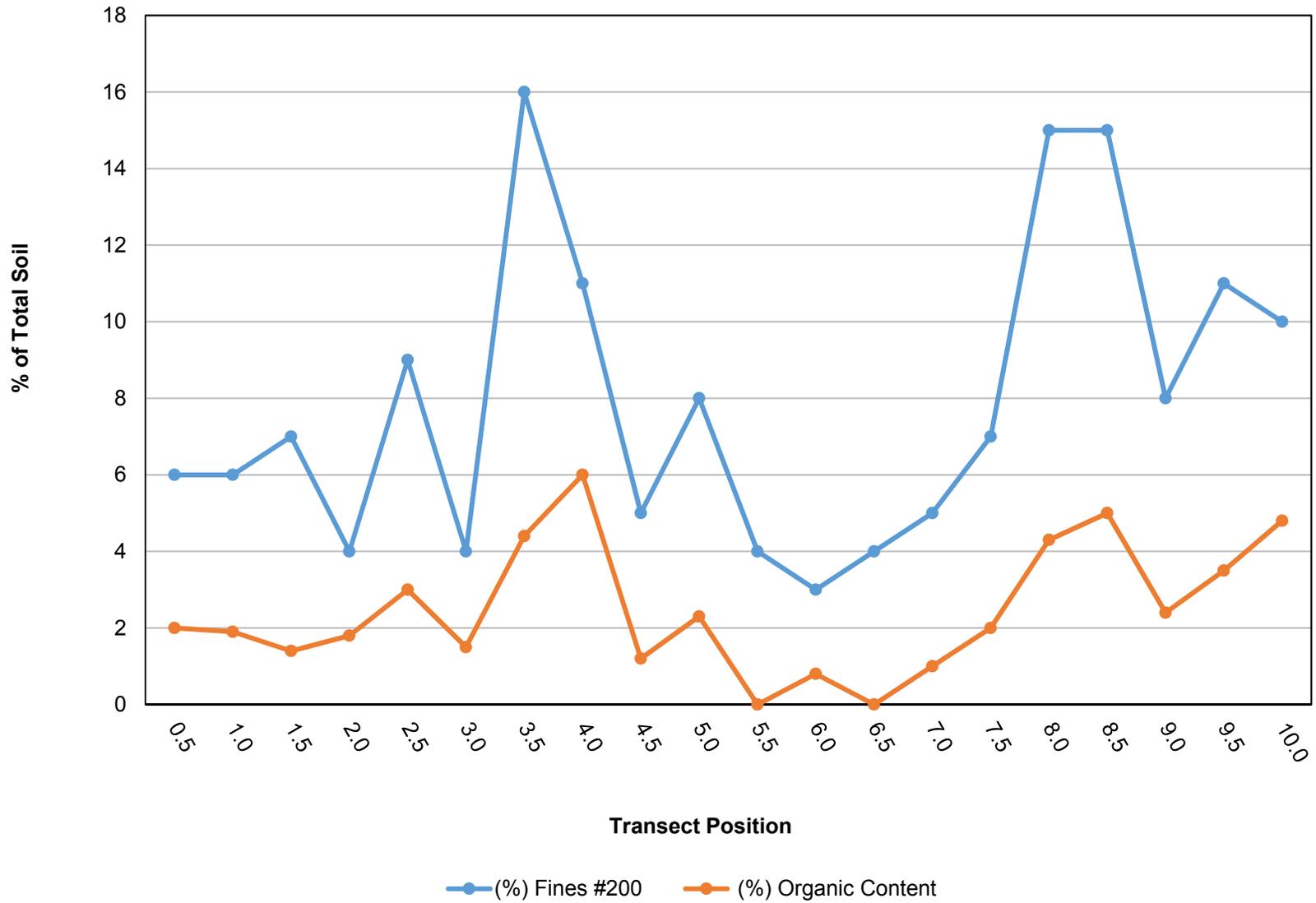
5.7.3 Trend Graphs

GRAPH 5-1. Sediment Thickness by Transect and Station

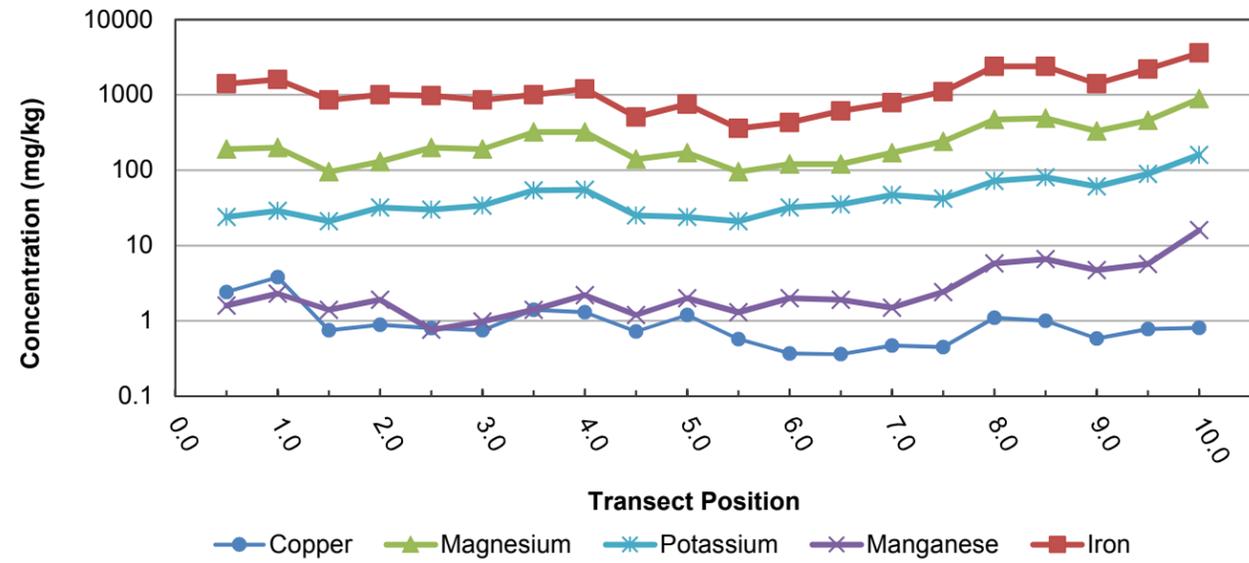
Chassahowitzka River, October 2015
March 2016 Sediment Assessment Report



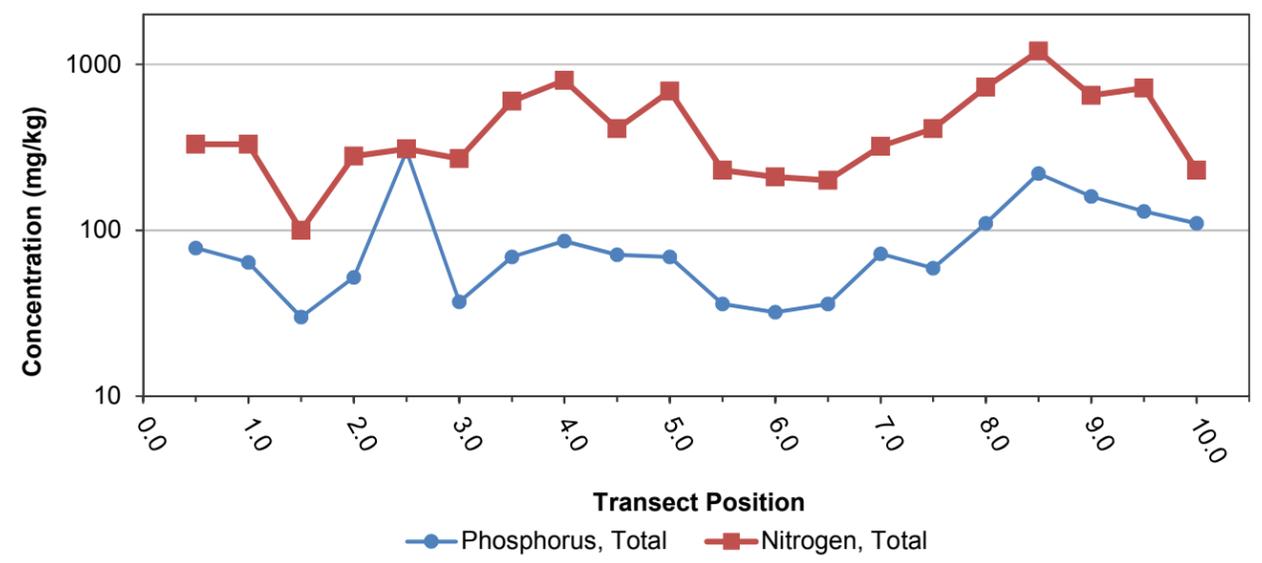
GRAPH 5-2. Geotechnical Data
Chassahowitzka River, October 2015
March 2016 Sediment Assessment Report



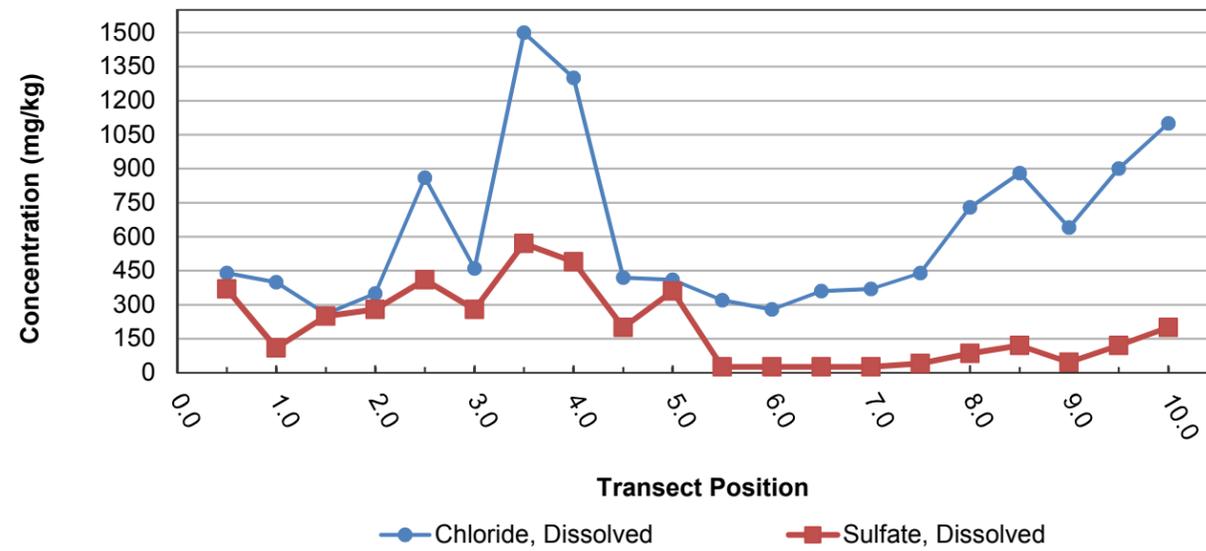
Total Metals Concentrations in Sediment



Total Nutrients Concentrations in Sediment

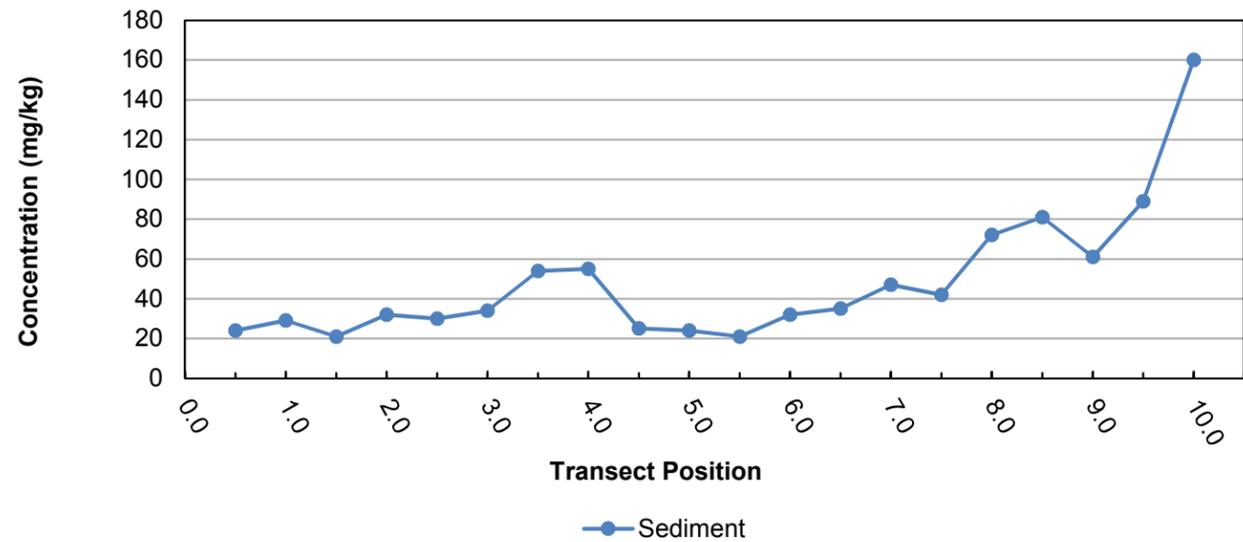


Total Inorganics Concentrations in Sediment

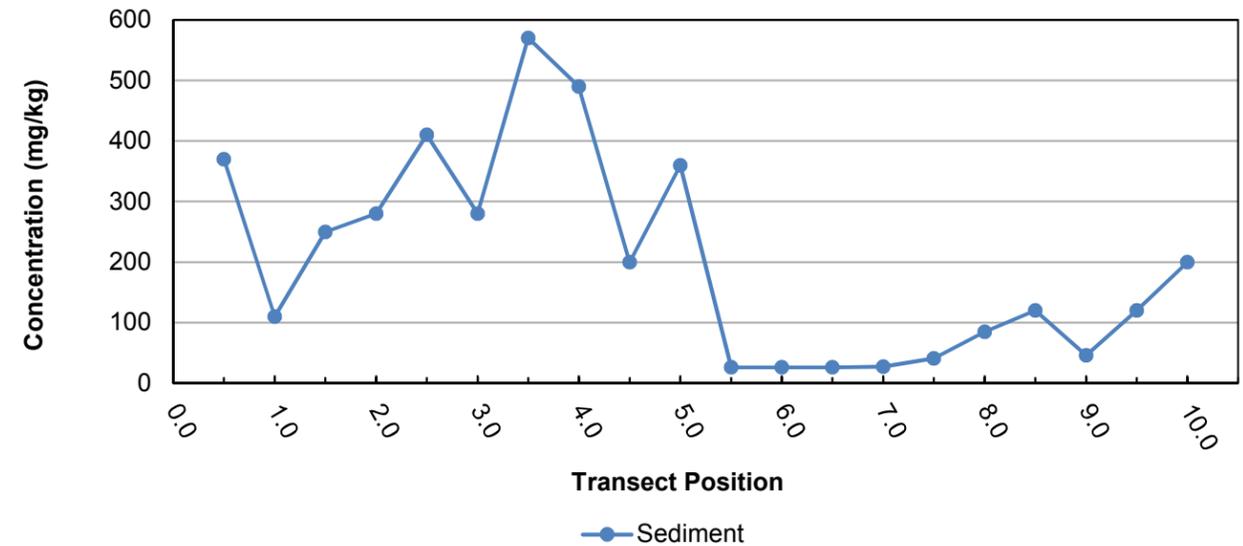


NOTES:
mg/kg - milligrams per kilogram

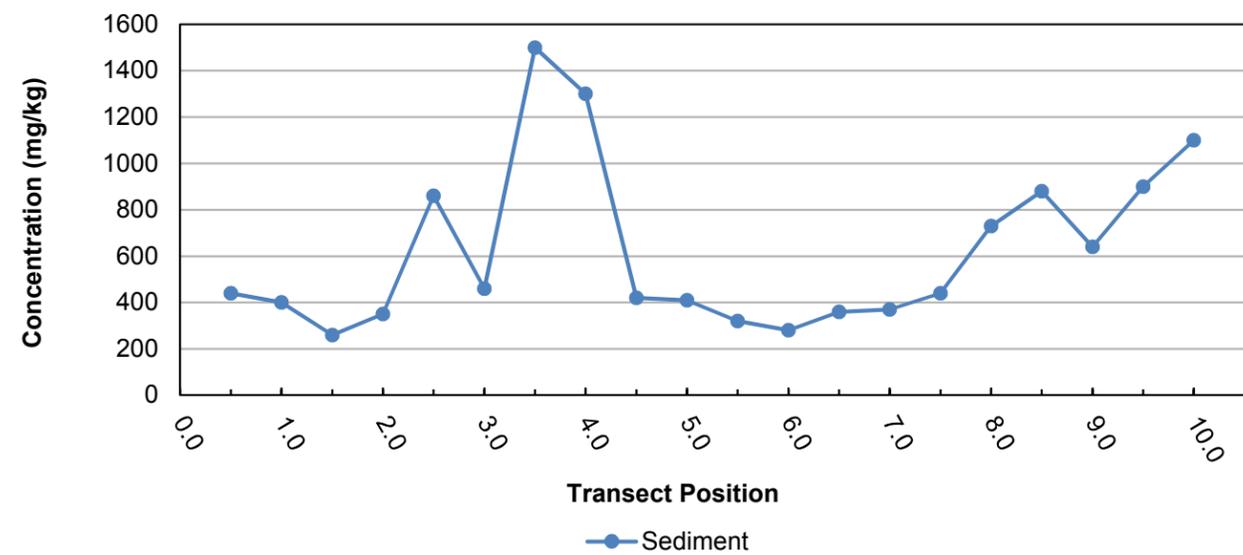
Potassium Concentrations in Sediment



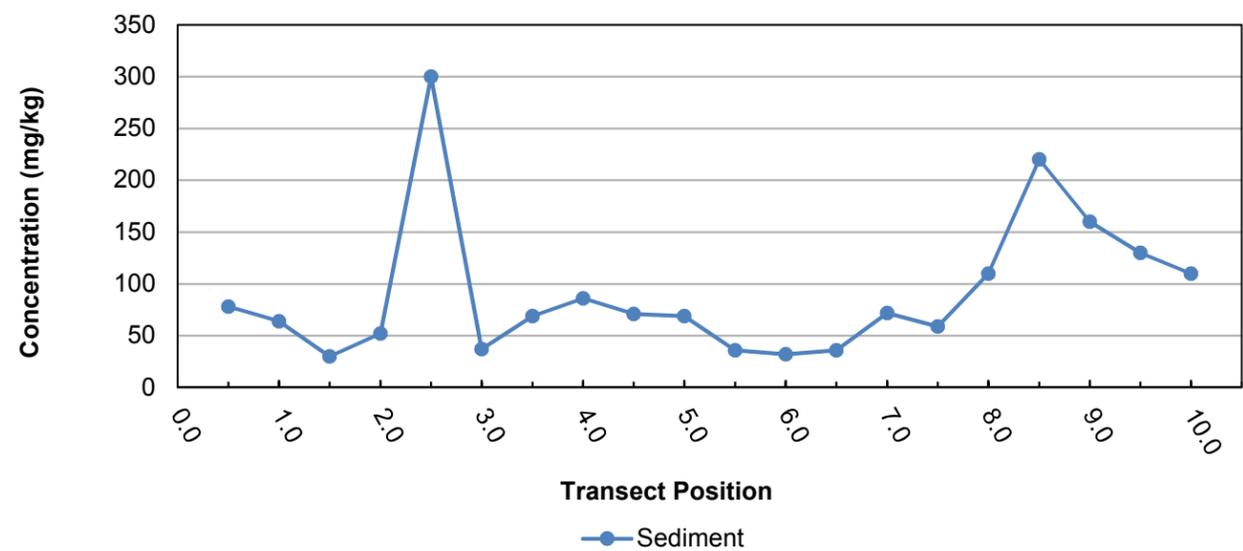
Dissolved Sulfate Concentrations in Sediment



Dissolved Chloride Concentrations in Sediment



Total Phosphorus Concentrations in Sediment

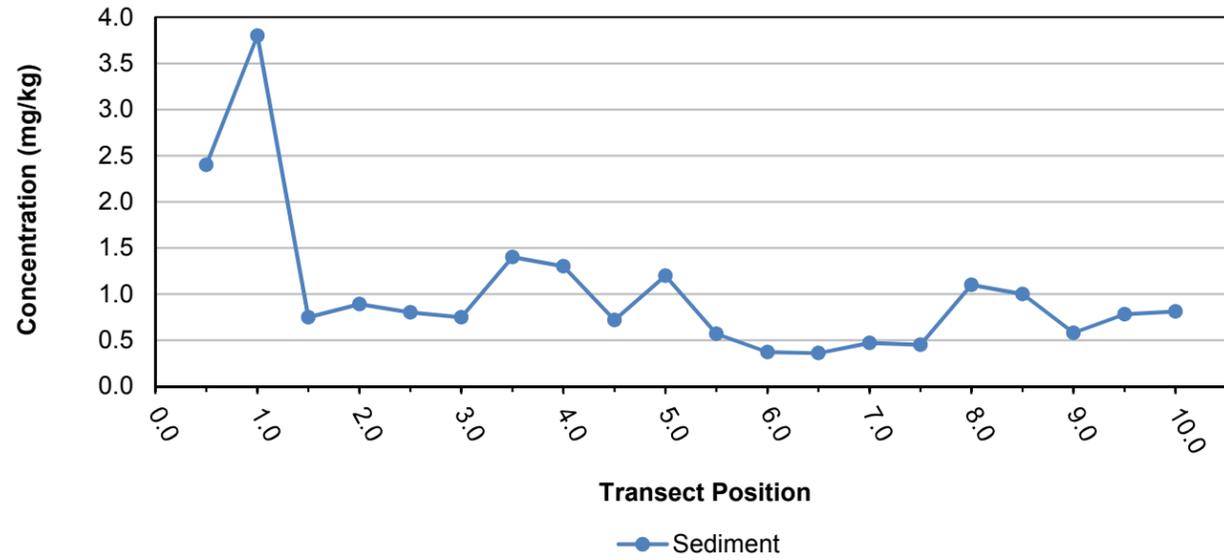


NOTES:
mg/kg - milligrams per kilogram

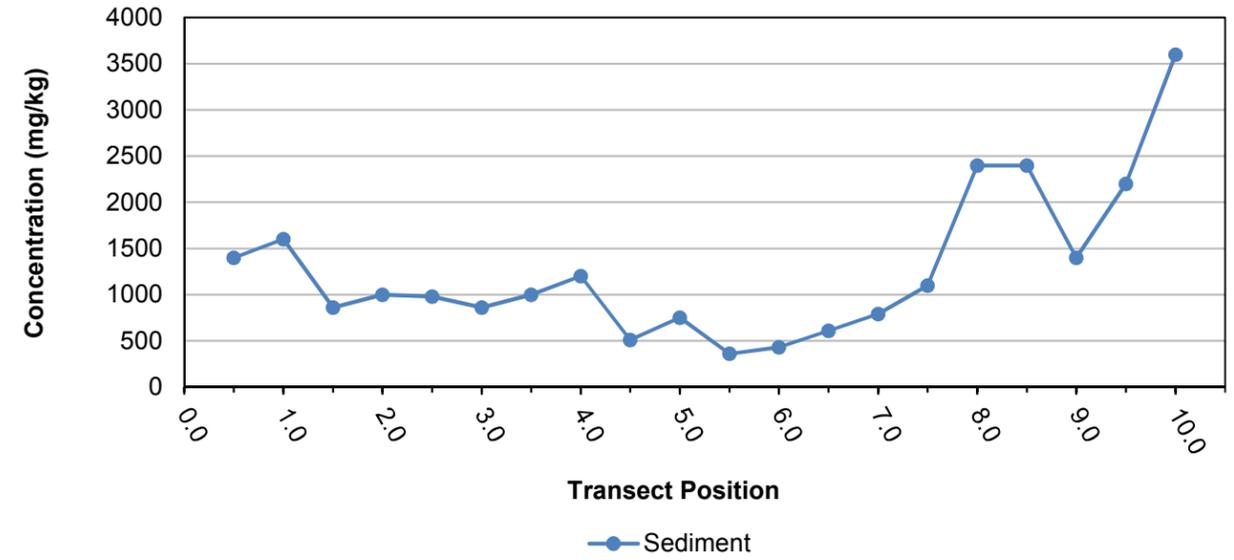
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
 SEDIMENT ASSESSMENT REPORT
 COASTAL RIVERS: HOMOSASSA, CHASSAHOWITZKA,
 AND WEEKI WACHEE
CONCENTRATIONS IN SEDIMENT
 Chassahowitzka River
 October 2015



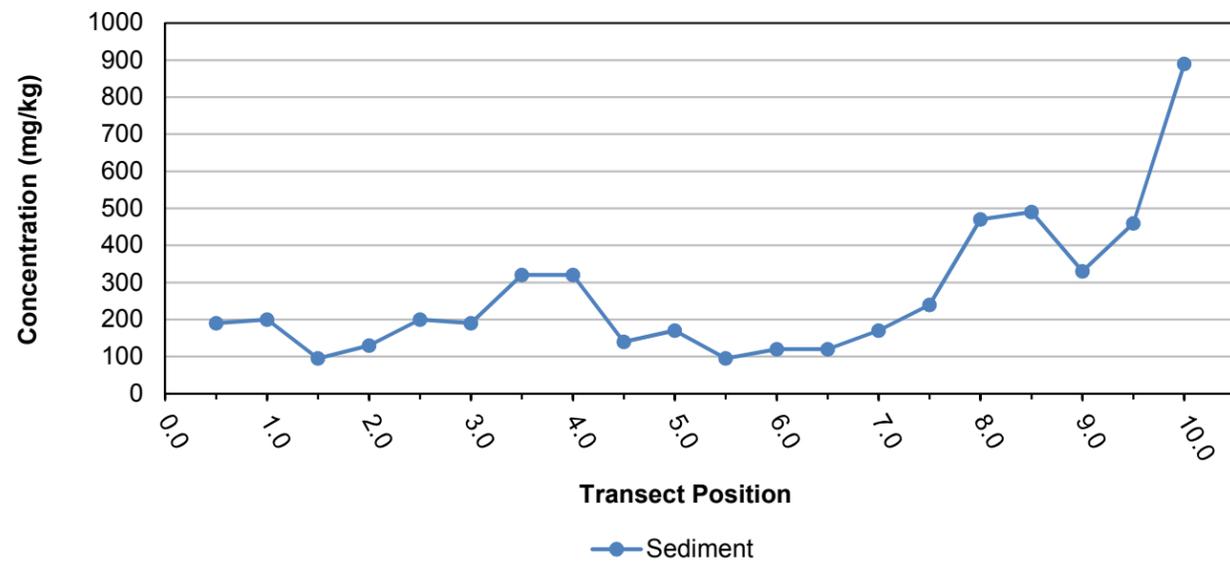
Copper Concentrations in Sediment



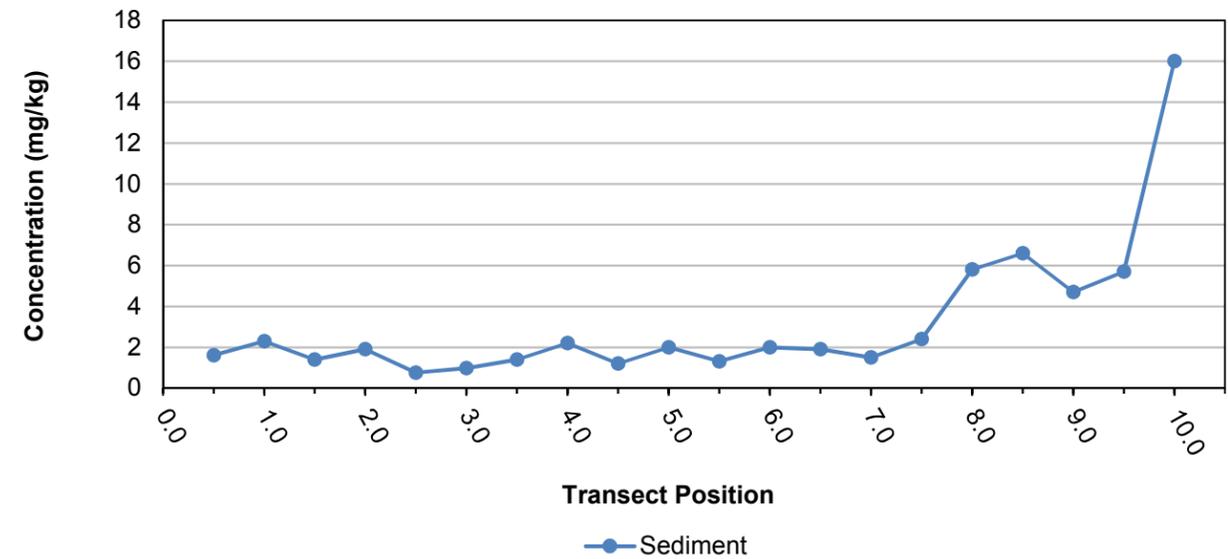
Iron Concentrations in Sediment



Magnesium Concentrations in Sediment

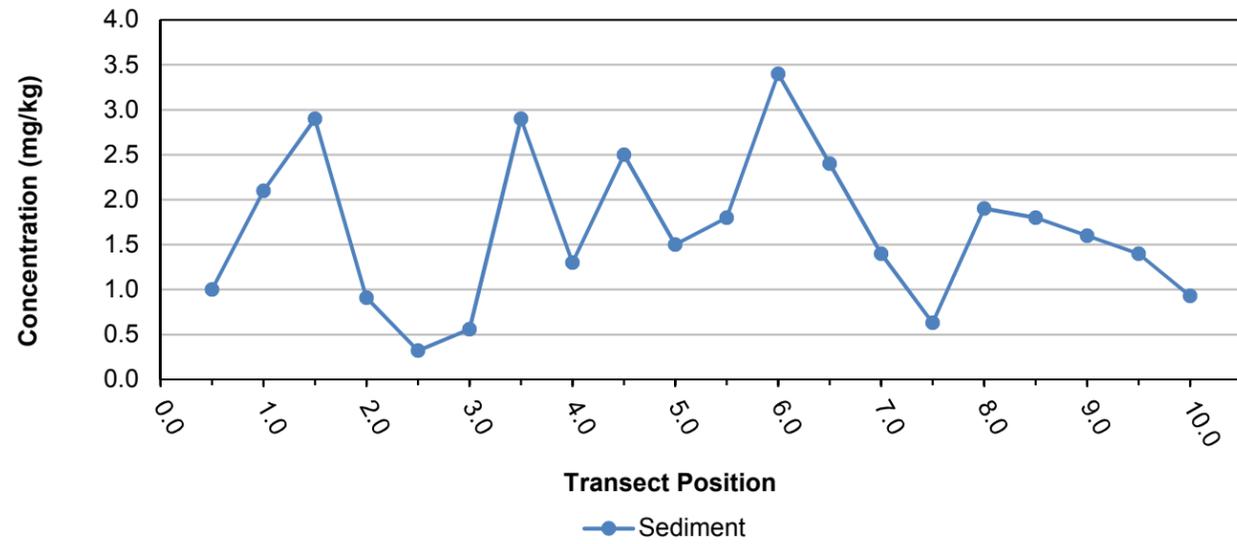


Manganese Concentrations in Sediment

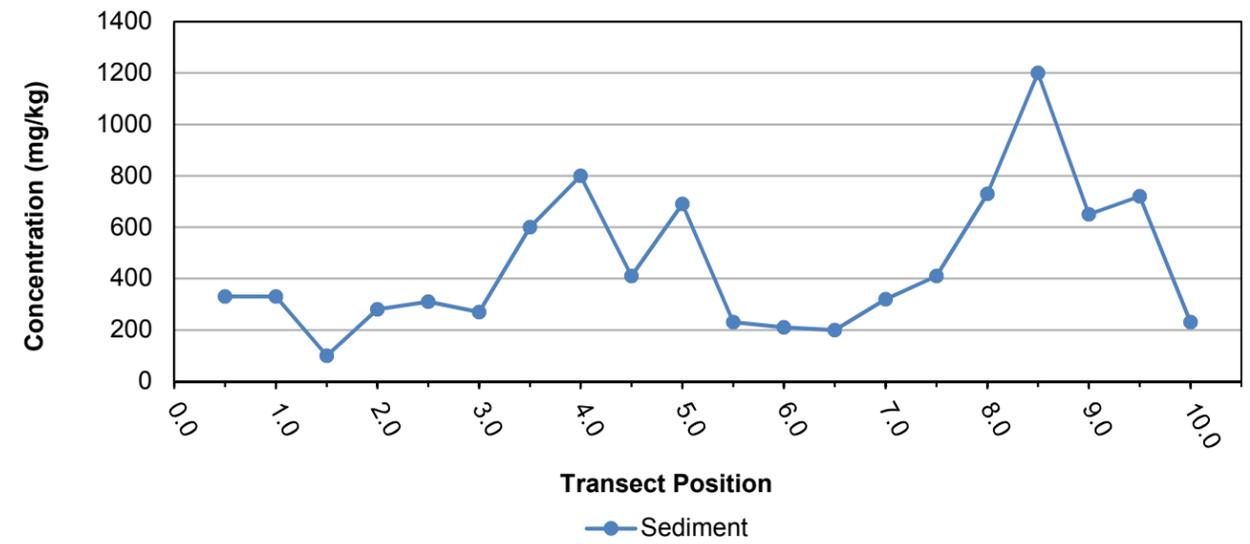


NOTES:
mg/kg - milligrams per kilogram

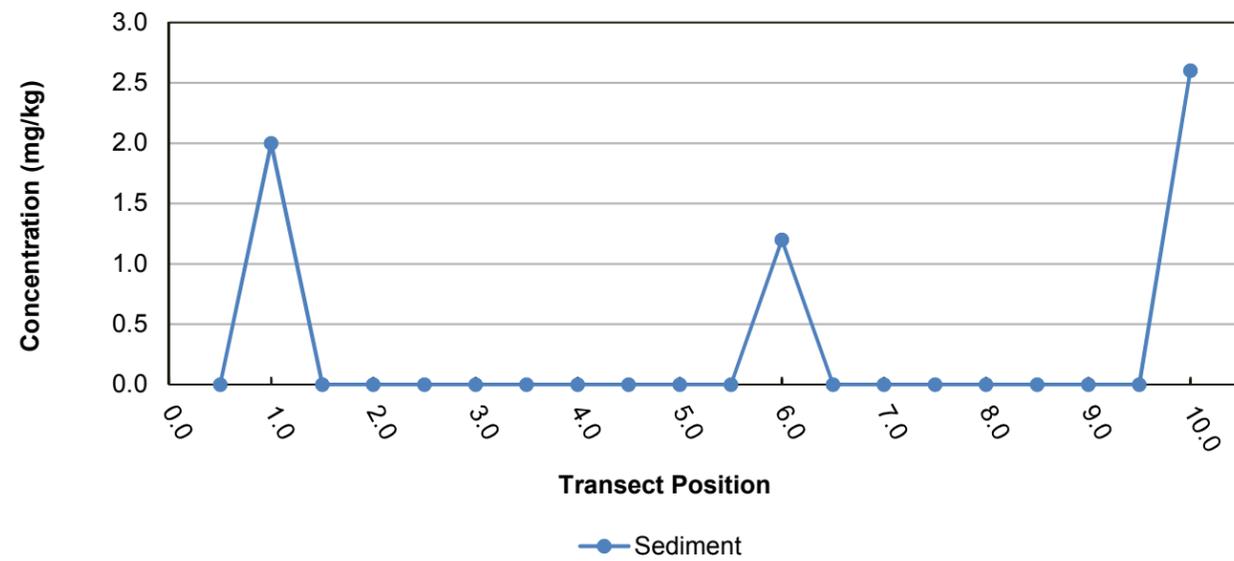
Dissolved Ammonia (as N) Concentrations in Sediment



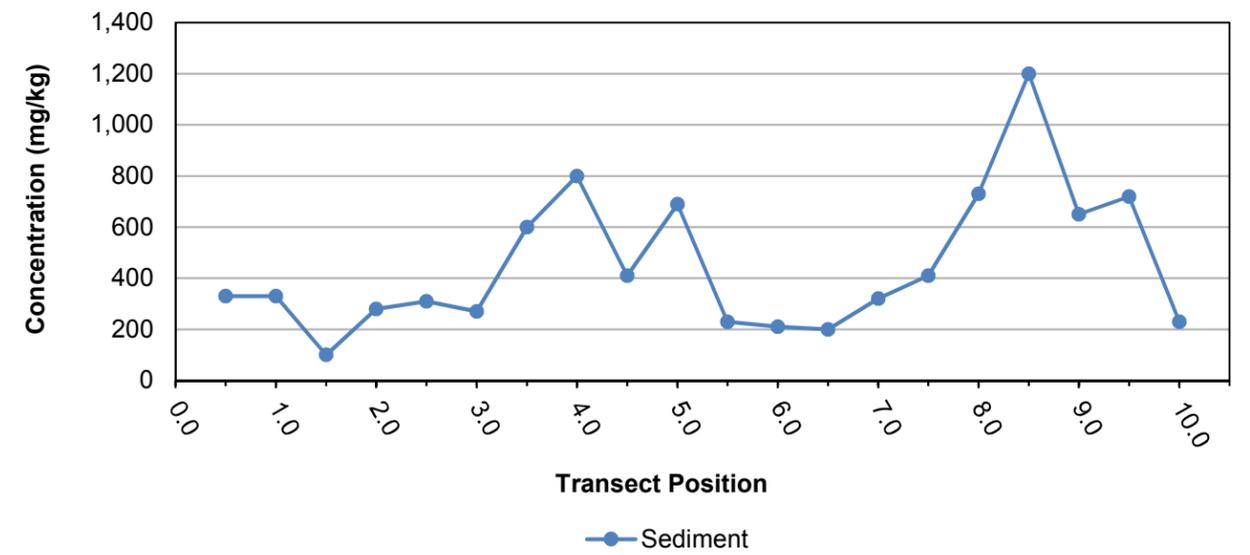
Total Kjeldahl Nitrogen Concentrations in Sediment



Dissolved Orthophosphate Concentrations in Sediment



Total Nitrogen Concentrations in Sediment

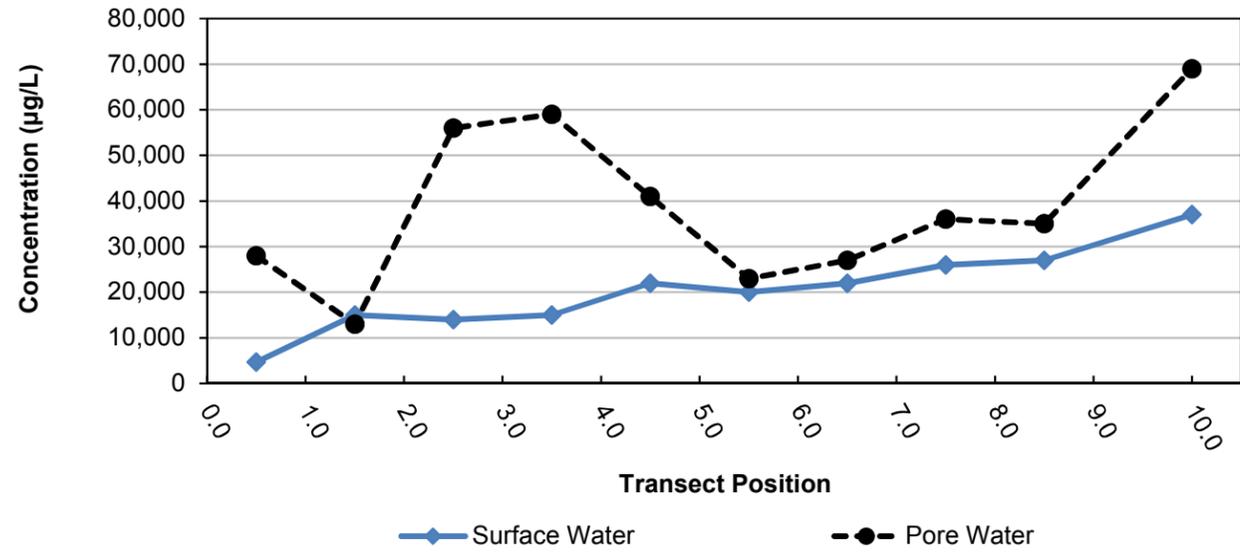


NOTES:
mg/kg - milligrams per kilogram

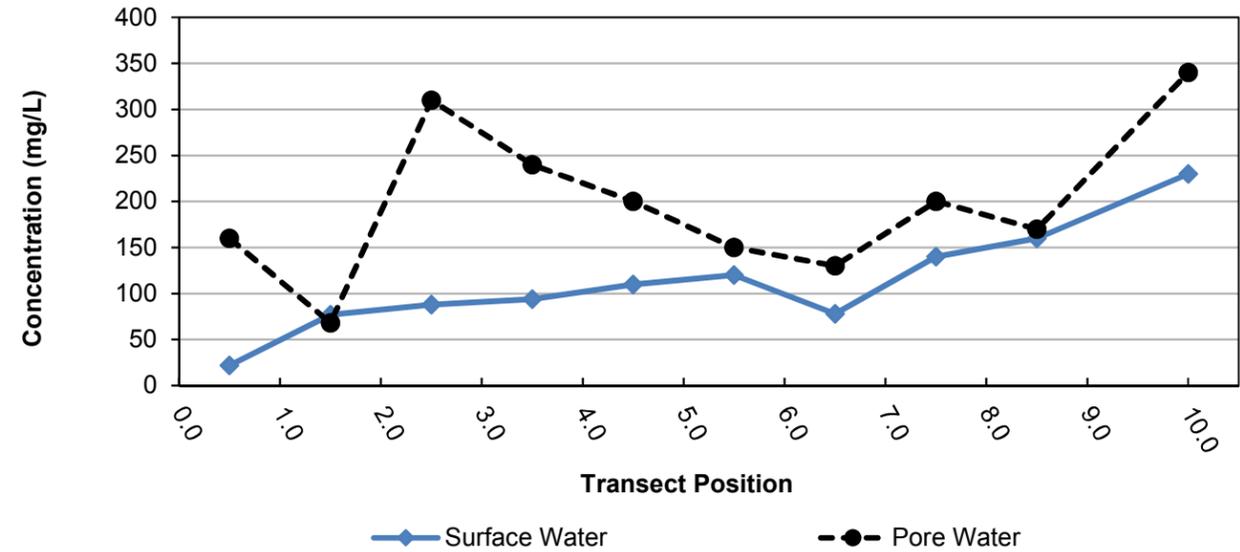
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
SEDIMENT ASSESSMENT REPORT
**COASTAL RIVERS: HOMOSASSA, CHASSAHOWITZKA,
AND WEEKI WACHEE**
CONCENTRATIONS IN SEDIMENT
Chassahowitzka River
October 2015



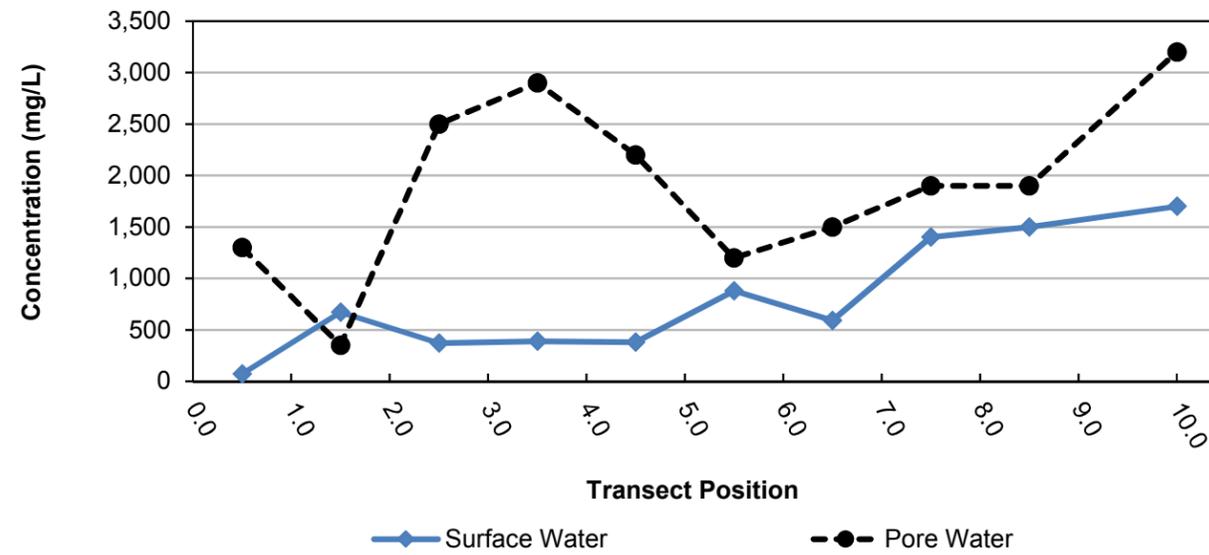
Potassium Concentrations in Water



Sulfate Concentrations in Water

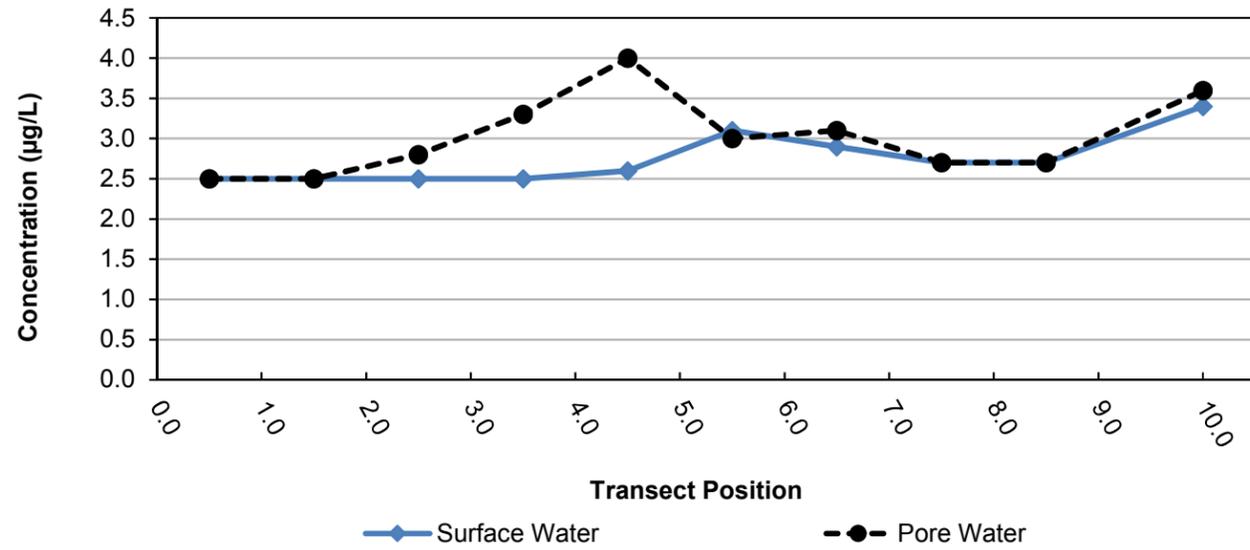


Chloride Concentrations in Water

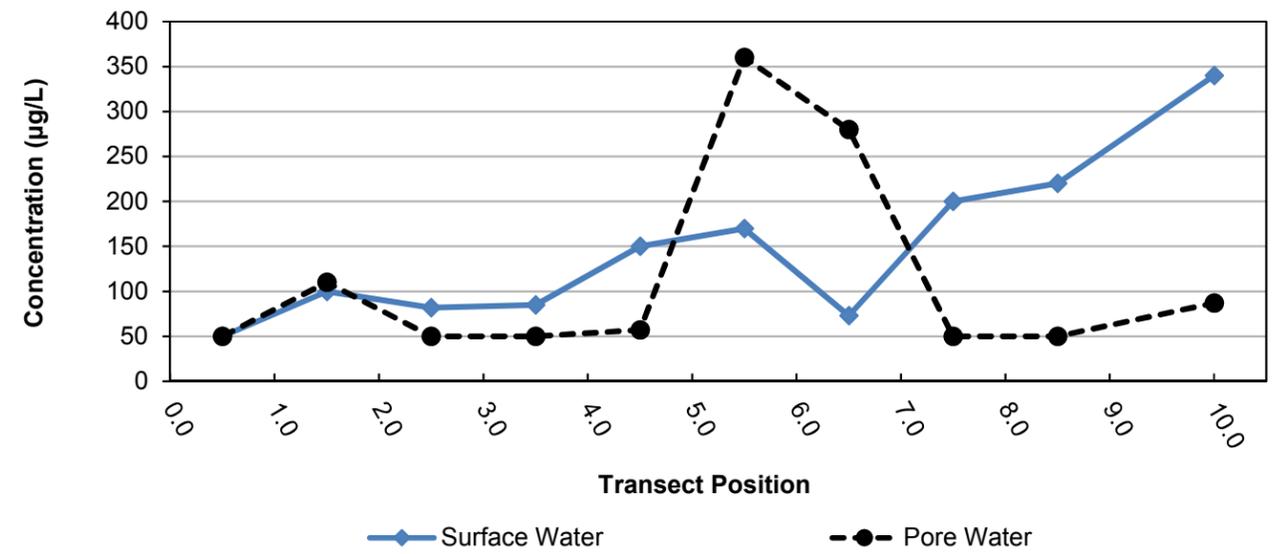


NOTES:
 mg/L - milligrams per liter
 µg/L - micrograms per liter

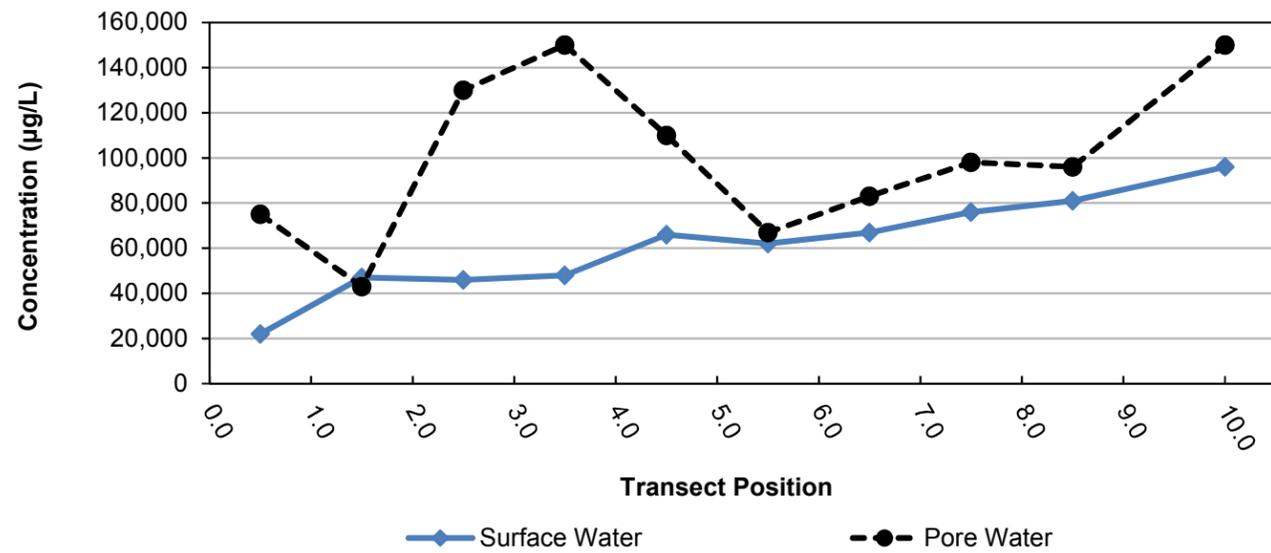
Copper Concentrations in Water



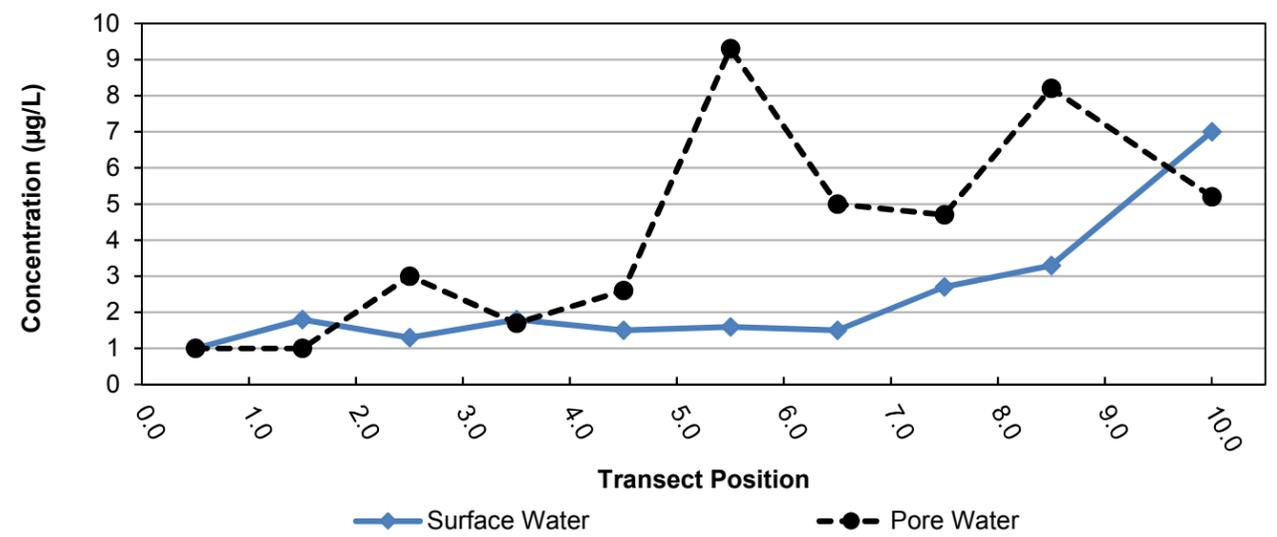
Iron Concentrations in Water



Magnesium Concentrations in Water

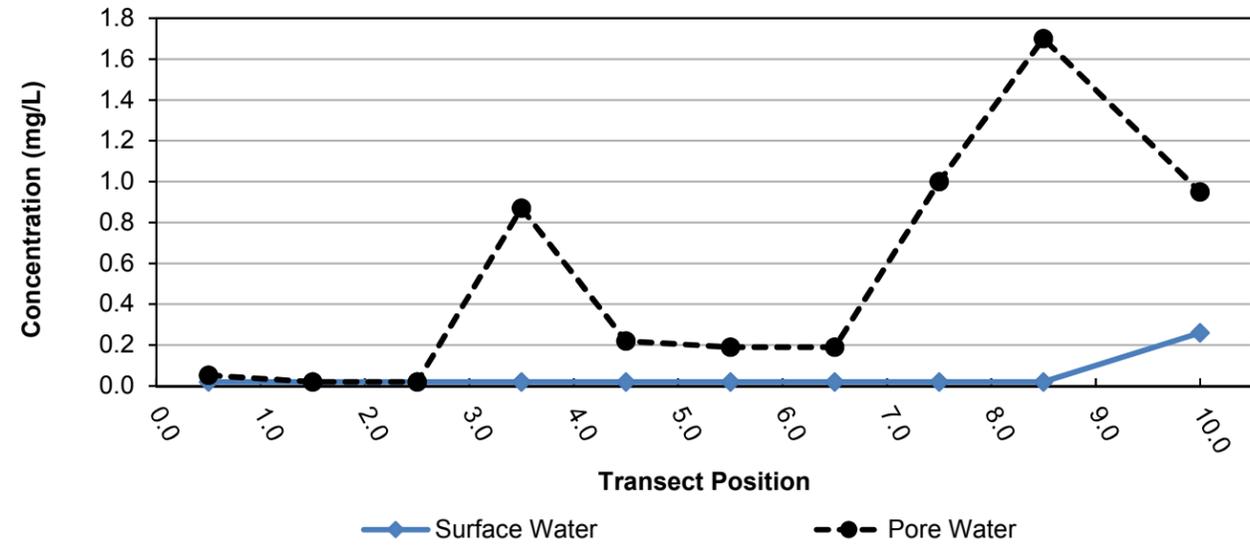


Manganese Concentrations in Water

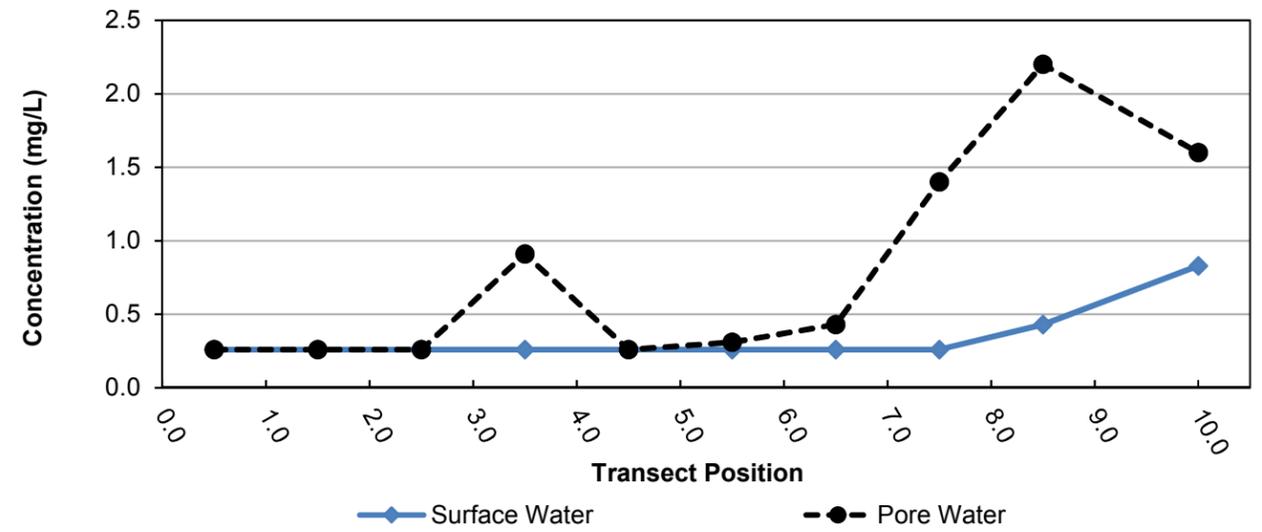


NOTES:
µg/L - micrograms per liter

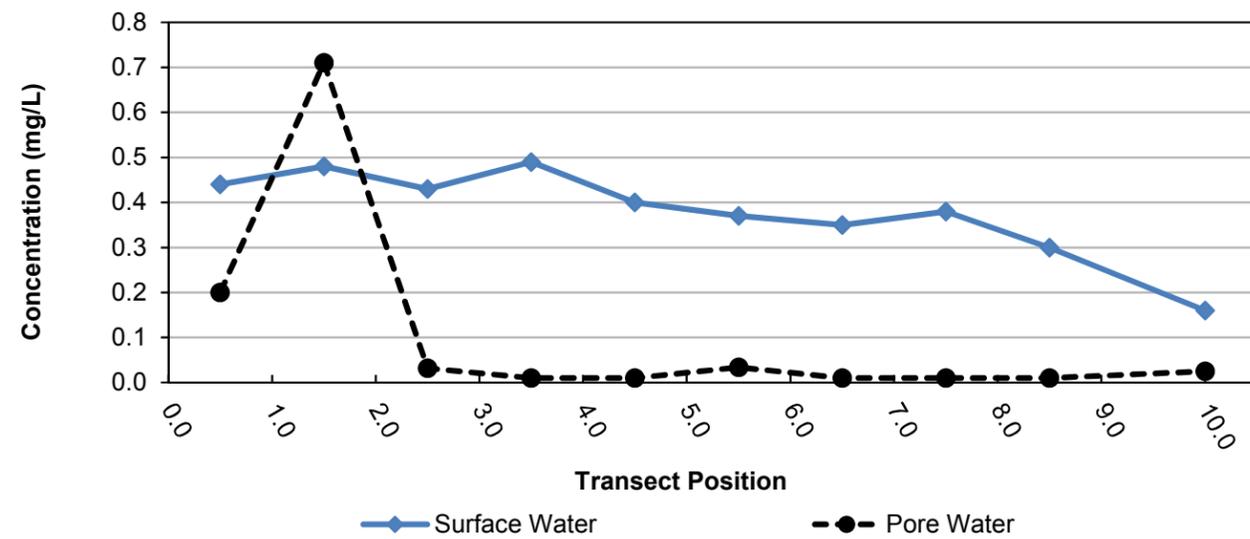
Ammonia (as N) Concentrations in Water



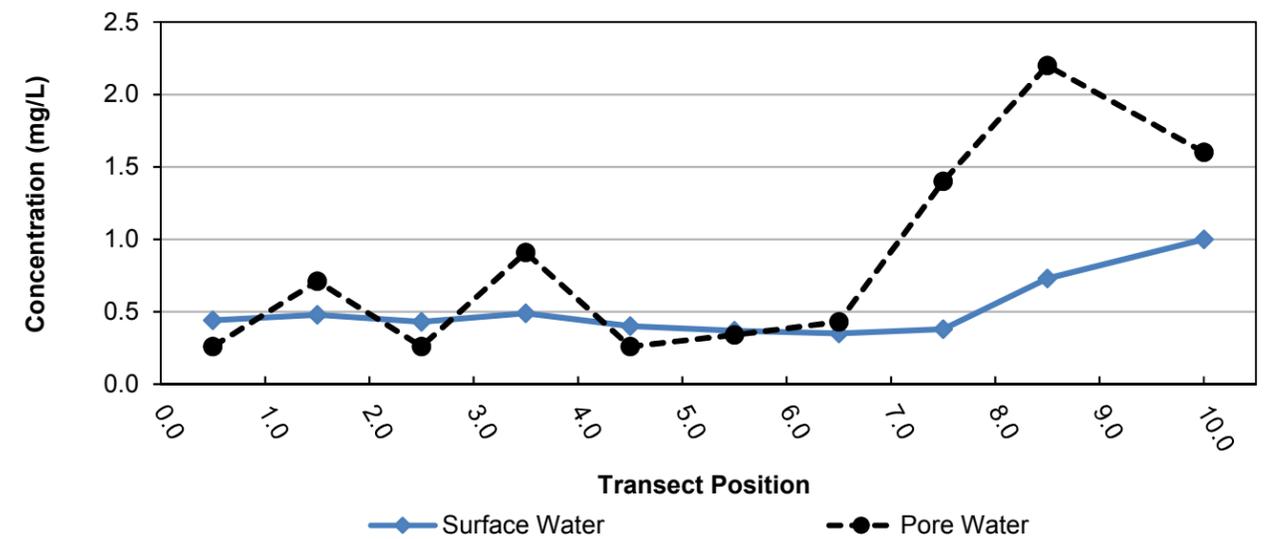
Total Kjeldahl Nitrogen Concentrations in Water



Nitrate as N Concentrations in Water

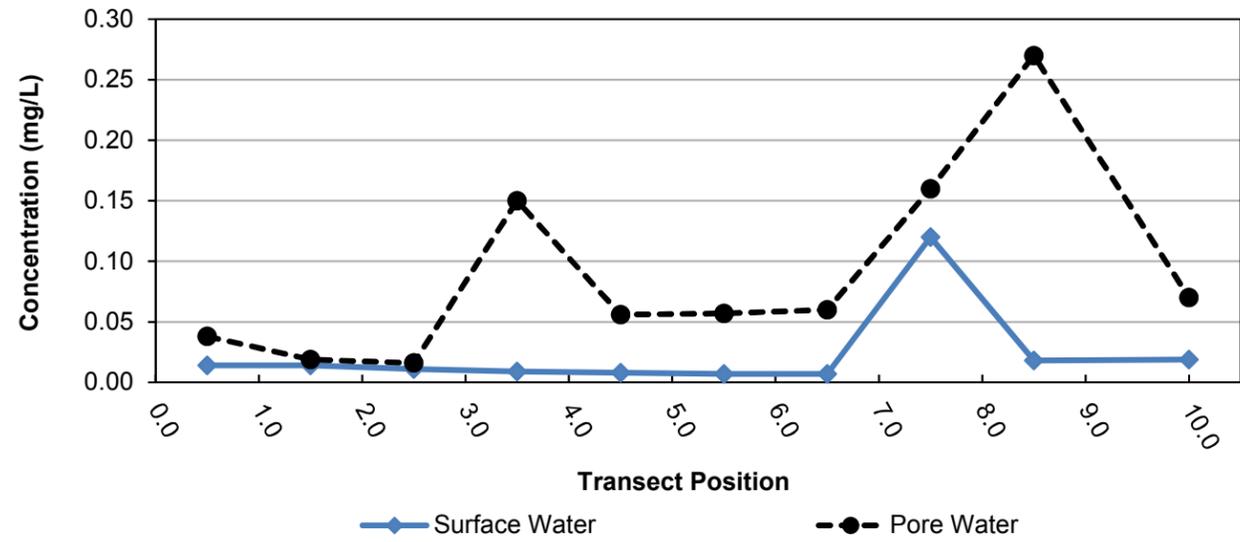


Total Nitrogen Concentrations in Water

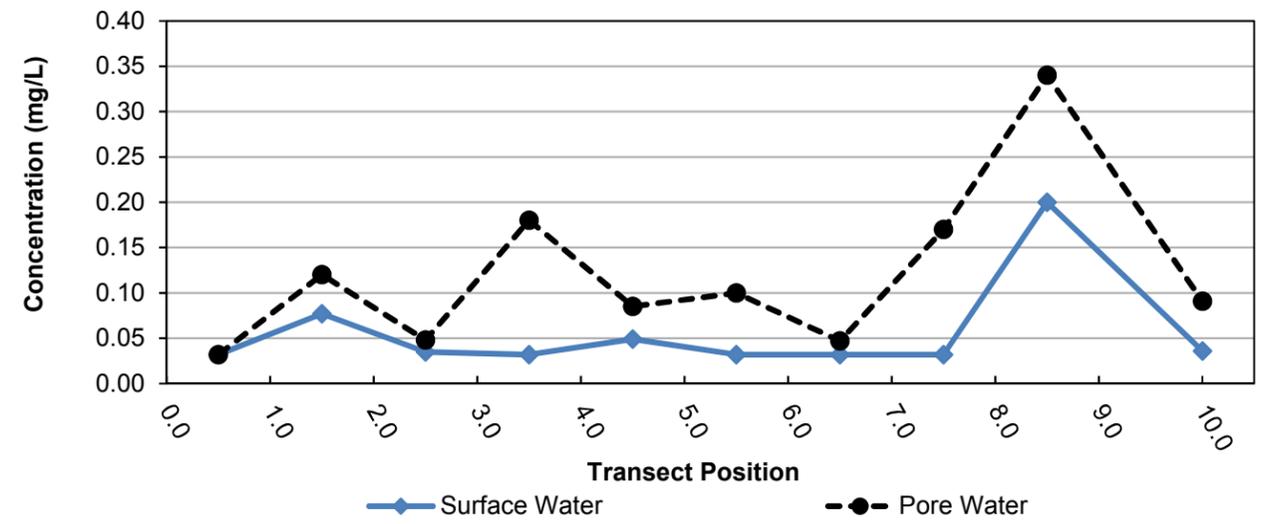


NOTES:
mg/L - milligrams per liter

Dissolved Orthophosphate Concentrations in Water



Total Phosphorus Concentrations in Water



NOTES:
mg/L - milligrams per liter

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT SEDIMENT ASSESSMENT REPORT	
COASTAL RIVERS: HOMOSASSA, CHASSAHOWITZKA, AND WEEKI WACHEE	
CONCENTRATIONS IN WATER Chassahowitzka River October 2015	
	GRAPH 5-10

6 WEEKI WACHEE RIVER

The Weeki Wachee River study area (**Figure 6-1**) includes approximately 5.1 miles of river extending from its confluence at the salt marsh upstream to the downstream limit of the Weeki Wachee Springs Park boundary. The 20 transects in this reach are collocated with the historical SAV study transects (**Figures 6-2A** and **6-2B**). As provided by the District, GPS coordinates for the center of each transect are provided in **Table 6-1**.

6.1 Visual Observations

Observations were made of basic riverbank conditions from the approximate viewpoint of the near shore transect locations (stations 1 and 5). Riverbank surface morphology on the left (station 1 side) of the Weeki Wachee river, has residential sea walls from transect 10 upstream to transect 8.0; then predominantly low relief wooded areas up to the transect 1 location. The right side bank surface morphology is predominately low relief and wooded the entire reach of the river, with some housing far enough from the bank to not be visible.

Two example views of typical riverbank conditions are shown below. Additional photos are provided in **Appendix C**.



Weeki Wachee, right bank, Transect 1.5; low relief and wooded.



Weeki Wachee, left bank, Transect 5.5; low relief and wooded.

6.2 Probe Data

Probing measurements collected from the 20 transects are provided in **Table 6-2**. The measured sediment thicknesses are presented on **Figures 6-3A** and **6-3B**. Two areas of deeper sediments include a narrow portion of the river around transect 4.0, and adjacent to a residential development around transect 8.5.

The area represented by each probing location was determined using ESRI ArcGIS software and using the midpoint between each transect to set the longitudinal length and the midpoint between probing station to set the lateral width (**Figures 6-3A** and **6-3B**). The subareas were combined with the measured sediment thickness to estimate sediment volume across each transect, as outlined in **Table 6-2**. Sediment volume estimates are limited to depth of refusal for hand-sampling methods, and are a rough estimate due to spacing of the transects. These transect volumes sum to a minimum estimated total sediment volume of 2,251,023 cubic feet in the Weeki Wachee study area.

As can be seen in **Graph 6-1**, no longitudinal trend is discernible for sediment thickness. The thickest sediment accumulations are found at transects 4.0 and 8.5. Probe logs and field observations are provided in **Appendix A**.

6.3 Sediment Data

A portion of the composited sample from 10 Weeki Wachee transects was sent to MC2 for geotechnical analysis including grain size analysis, organic content (by loss on ignition), natural moisture content and specific gravity. Selected transects include 1.5, 2.5, 3.5, 4.5, 5.25, 5.5, 6.5, 7.5, 8.5 and 10. Transect 5.5 was selected for sampling due to the low sediment thickness, and transect 10 was sampled during the reconnaissance event. Sediment depth measurements were recorded at 0.25 foot (3 inch) intervals. Depth measurements at the 5.25 transect were less than 0.25 feet; therefore, this measurement was recorded as zero feet depth. However, a small amount of sediment was able to be collected at each rod station, and were composited to provide sufficient volume for sample analyses.

The geotechnical laboratory report is provided in **Appendix B**, and results are shown in **Table 6-3**. After some increased silt content in the first few transects, sediment character shows very little variability over the remainder of the river's reach (**Figures 6-4A** and **6-4B**). The vast majority of the river is comprised of fine sands with low percentages of fines and organics. As shown in **Graph 6-2**, the percent fines and percent organic material appear to trend together. A significant longitudinal trend for organic content is not apparent. Lateral trends in sediment grain size and composition were not evaluated.

The analytical laboratory report is also provided in **Appendix B**, and results are provided in **Table 6-4**. Longitudinal trends of sediment chemical parameters are shown in **Graphs 6-3** thru **6-6**. All metals (copper, magnesium, potassium, manganese and iron) appear generally correlated; also potassium and copper trend together along the reach of the study area. Metals iron and manganese show elevated concentrations at the 2.0 and 4.0 transects.

Inorganic compounds chloride and sulfate trend in a similar manner, with downstream increases in chloride as might be expected closer to the marine environment. Nutrients (total Kjeldahl nitrogen and phosphorus) show a similar trend as well. No discernible trend is apparent for iron and manganese as shown on **Figures 6-5A** and **6-5B**.

6.4 Aqueous Data

Longitudinal trends of paired surface water and pore water chemical parameters are also shown in **Graphs 6-7** thru **6-10**. The area of transect 7.5 shows an apparent differential between aqueous sources for iron, manganese, phosphorus, orthophosphate and total Kjeldahl nitrogen. Magnesium, potassium and chloride show sharp increases downstream starting at transect 7.5. On **Figures 6-6A** and **6-6B**, surface water appears nitrate-enriched throughout the river reach.

The largest differential for manganese is apparent at transect 7.5, as shown on **Figures 6-7A** and **6-7B**, with ammonia differentials indicated at transects 6.5 and 7.5. The analytical laboratory report is also provided in **Appendix B**.

6.5 Summary

After some increased silt content in the first few transects, overall sediment character shows very little variability over the remainder of the river's reach (**Figures 6-4A** and **6-4B**). The vast majority of the river is comprised of fine sands with low percentages of fines and organics.

SEDIMENT ASSESSMENT REPORT

The measured sediment layer ranged in thickness from 0 to 7.75 feet and averaged approximately 1.3 feet. Metals copper, iron, manganese and potassium show elevated sediment concentrations at the 2.0 and 4.0 transects. Transect 4.0 contains the thickest sediment layer.

One possible morphological correlation to aqueous results is canals at transects 7.5 and 8.0. Transect 7.5 shows an apparent differential between aqueous sources for iron, manganese, phosphorus, orthophosphate and total Kjeldahl nitrogen. Magnesium, potassium and chloride show sharp increases downstream starting at transect 7.5. Definitive causative factors are not yet identified.

6.6 Recommendations

The above assessment data provide a first-order characterization of sediments in the Weeki Wachee River with a focus on the upper layer that has the most potential to influence SAV. Accompanying aqueous data is applied herein to supplement the sedimentological data and provide a generalized view of area that may warrant additional study related to hydrologic and nutrient flux dynamics.

Once these data are compared with the SAV and macroinvertebrate assessments that were contracted coincidentally with this study; possible next steps for additional research may include:

- Hydrologic and nutrient flux studies, to consider ground-to-surface water impacts and partitioning.
- Finer scale sediment (longitudinal, lateral and potential vertical) assessment in impacted areas identified in current assessments.
- Chemical and contaminant assessment and characterization of contributing features such as canals and outfall noted during reconnaissance.
- Additional sediment characterization correlated to confirmed bedrock surface and stratigraphic analysis.
- Evaluation of tidal cycle, GW-SW Interaction, and river velocities throughout river reach.
- Sediment transport modeling.
- Nutrient demand and limiting dynamics.
- Assessments similar to this on other area rivers.

6.7 Attachments

6.7.1 Tables

TABLE 6-1
Transect Location Coordinates
 Weeki Wachee River, October 2015
 March 2016 Sediment Assessment Report

RIVER	TRANSECT	STATION	MEAN LATITUDE	MEAN LONGITUDE
Weeki Wachee	1.0	3	28.51921	-82.57445
Weeki Wachee	1.5	3	28.51878	-82.5766
Weeki Wachee	2.0	3	28.51872	-82.57933
Weeki Wachee	2.5	3	28.51887	-82.58147
Weeki Wachee	3.0	3	28.52189	-82.58461
Weeki Wachee	3.5	3	28.52308	-82.58723
Weeki Wachee	4.0	3	28.5201	-82.59
Weeki Wachee	4.5	3	28.51848	-82.59303
Weeki Wachee	5.0	3	28.51916	-82.59566
Weeki Wachee	5.25	3	28.52403	-82.59653
Weeki Wachee	5.5	3	28.52694	-82.59745
Weeki Wachee	6.0	3	28.52859	-82.60032
Weeki Wachee	6.5	3	28.52897	-82.6035
Weeki Wachee	7.0	3	28.53161	-82.60604
Weeki Wachee	7.5	3	28.52852	-82.60911
Weeki Wachee	8.0	3	28.52829	-82.61144
Weeki Wachee	8.5	3	28.5285	-82.61413
Weeki Wachee	9.0	3	28.53158	-82.61687
Weeki Wachee	9.5	3	28.53199	-82.61971
Weeki Wachee	10.0	3	28.53093	-82.62192

TABLE 6-2
Sediment Volume and Thickness by Transect
 Weeki Watchee River, October 2015
 March 2016 Sediment Assessment Report

RIVER	TRANSECT	STATION NO.	GIS STATION ID	WATER DEPTH (ft)	SEDIMENT THICKNESS (ft)	STATION AREA (ft ²)	SEDIMENT VOLUME (ft ³)	STATION 1	STATION 2	STATION 3	STATION 4	STATION 5	MEAN
Weeki Wachee	1.0	1	WW-1-1	3.50	2.5	14,476.0	36,190	2.5					1
Weeki Wachee	1.0	2	WW-1-2	3.00	0.5	14,568.8	7,284		0.5				
Weeki Wachee	1.0	3	WW-1-3	5.25	0.25	15,408.5	3,852			0.25			
Weeki Wachee	1.0	4	WW-1-4	5.25	1.5	14,788.9	22,183				1.5		
Weeki Wachee	1.0	5	WW-1-5	4.50	0.25	10,433.9	2,608					0.25	
Weeki Wachee	1.5	1	WW-1.5-1	2.00	0.25	13,899.4	3,475	0.25					1.7
Weeki Wachee	1.5	2	WW-1.5-2	6.00	1.25	15,928.7	19,911		1.25				
Weeki Wachee	1.5	3	WW-1.5-3	7.25	0.5	19,576.2	9,788			0.5			
Weeki Wachee	1.5	4	WW-1.5-4	4.00	3.5	18,197.4	63,691				3.5		
Weeki Wachee	1.5	5	WW-1.5-5	2.50	3	20,601.3	61,804					3	
Weeki Wachee	2.0	1	WW-2-1	3.25	0.25	16,064.1	4,016	0.25					0.7
Weeki Wachee	2.0	2	WW-2-2	7.25	0	22,223.9	0		0				
Weeki Wachee	2.0	3	WW-2-3	5.50	0.75	21,288.9	15,967			0.75			
Weeki Wachee	2.0	4	WW-2-4	2.50	1	22,088.0	22,088				1		
Weeki Wachee	2.0	5	WW-2-5	1.50	1.5	20,071.6	30,107					1.5	
Weeki Wachee	2.5	1	WW-2.5-1	1.00	0.5	21,338.6	10,669	0.5					1.4
Weeki Wachee	2.5	2	WW-2.5-2	3.50	2.5	25,252.1	63,130		2.5				
Weeki Wachee	2.5	3	WW-2.5-3	5.50	1.25	23,133.2	28,916			1.25			
Weeki Wachee	2.5	4	WW-2.5-4	4.00	1	24,510.1	24,510				1		
Weeki Wachee	2.5	5	WW-2.5-5	1.50	1.75	18,976.6	33,209					1.75	
Weeki Wachee	3.0	1	WW-3-1	4.00	0	18,730.9	0	0					0.95
Weeki Wachee	3.0	2	WW-3-2	6.00	0.25	21,518.5	5,380		0.25				
Weeki Wachee	3.0	3	WW-3-3	6.25	0.25	21,257.9	5,314			0.25			
Weeki Wachee	3.0	4	WW-3-4	5.00	3.5	20,895.0	73,133				3.5		
Weeki Wachee	3.0	5	WW-3-5	1.50	0.75	17,144.1	12,858					0.75	
Weeki Wachee	3.5	1	WW-3.5-1	1.75	0.75	24,542.6	18,407	0.75					1.45
Weeki Wachee	3.5	2	WW-3.5-2	3.75	0.25	23,926.6	5,982		0.25				
Weeki Wachee	3.5	3	WW-3.5-3	3.75	1	24,116.6	24,117			1			
Weeki Wachee	3.5	4	WW-3.5-4	5.00	1.5	24,167.8	36,252				1.5		
Weeki Wachee	3.5	5	WW-3.5-5	3.50	3.75	22,183.7	83,189					3.75	
Weeki Wachee	4.0	1	WW-4-1	1.00	7.75	18,799.2	145,694	7.75					2.9
Weeki Wachee	4.0	2	WW-4-2	2.50	6	22,643.6	135,861		6				
Weeki Wachee	4.0	3	WW-4-3	5.00	0.5	21,806.5	10,903			0.5			
Weeki Wachee	4.0	4	WW-4-4	5.00	0.25	24,149.8	6,037				0.25		
Weeki Wachee	4.0	5	WW-4-5	4.00	0	15,168.3	0					0	
Weeki Wachee	4.5	1	WW-4.5-1	3.00	4.5	16,307.9	73,385	4.5					2.9
Weeki Wachee	4.5	2	WW-4.5-2	5.50	2.5	16,280.3	40,701		2.5				
Weeki Wachee	4.5	3	WW-4.5-3	4.25	3.25	14,817.8	48,158			3.25			
Weeki Wachee	4.5	4	WW-4.5-4	4.00	3.25	15,824.4	51,429				3.25		
Weeki Wachee	4.5	5	WW-4.5-5	0.50	1	17,648.4	17,648					1	
Weeki Wachee	5.0	1	WW-5-1	5.25	2.75	15,579.7	42,844	2.75					1.15
Weeki Wachee	5.0	2	WW-5-2	7.75	0.5	17,852.6	8,926		0.5				
Weeki Wachee	5.0	3	WW-5-3	4.50	2	18,738.0	37,476			2			
Weeki Wachee	5.0	4	WW-5-4	3.25	0	21,132.7	0				0		
Weeki Wachee	5.0	5	WW-5-5	1.00	0.5	19,951.9	9,976					0.5	
Weeki Wachee	5.25	1	WW-5.25-1	1.25	0	35,234.1	0	0					0
Weeki Wachee	5.25	2	WW-5.25-2	2.75	0	39,668.8	0		0				
Weeki Wachee	5.25	3	WW-5.25-3	4.25	0	36,600.3	0			0			
Weeki Wachee	5.25	4	WW-5.25-4	5.75	0	38,037.3	0				0		
Weeki Wachee	5.25	5	WW-5.25-5	6.00	0	36,315.9	0					0	
Weeki Wachee	5.5	1	WW-5.5-1	4.00	1.5	15,130.4	22,696	1.5					0.55
Weeki Wachee	5.5	2	WW-5.5-2	4.75	0.25	21,009.4	5,252		0.25				

TABLE 6-2
Sediment Volume and Thickness by Transect
 Weeki Watchee River, October 2015
 March 2016 Sediment Assessment Report

RIVER	TRANSECT	STATION NO.	GIS STATION ID	WATER DEPTH (ft)	SEDIMENT THICKNESS (ft)	STATION AREA (ft ²)	SEDIMENT VOLUME (ft ³)	STATION 1	STATION 2	STATION 3	STATION 4	STATION 5	MEAN
Weeki Wachee	5.5	3	WW-5.5-3	5.50	1	21,435.2	21,435			1			
Weeki Wachee	5.5	4	WW-5.5-4	5.50	0	21,690.5	0				0		
Weeki Wachee	5.5	5	WW-5.5-5	4.00	0	17,282.6	0					0	
Weeki Wachee	6.0	1	WW-6-1	3.50	2	14,700.6	29,401	2					0.95
Weeki Wachee	6.0	2	WW-6-2	5.25	1	15,733.4	15,733		1				
Weeki Wachee	6.0	3	WW-6-3	5.75	0.75	15,809.8	11,857			0.75			
Weeki Wachee	6.0	4	WW-6-4	6.00	0.5	17,042.6	8,521				0.5		
Weeki Wachee	6.0	5	WW-6-5	2.50	0.5	16,006.8	8,003					0.5	
Weeki Wachee	6.5	1	WW-6.5-1	4.00	0.25	16,726.3	4,182	0.25					1.05
Weeki Wachee	6.5	2	WW-6.5-2	4.25	0.75	16,276.0	12,207		0.75				
Weeki Wachee	6.5	3	WW-6.5-3	4.50	0.25	16,742.2	4,186			0.25			
Weeki Wachee	6.5	4	WW-6.5-4	2.50	1	17,115.5	17,115				1		
Weeki Wachee	6.5	5	WW-6.5-5	2.00	3	16,652.1	49,956					3	
Weeki Wachee	7.0	1	WW-7-1	2.50	0.5	17,337.0	8,669	0.5					2.1
Weeki Wachee	7.0	2	WW-7-2	3.00	0.75	19,350.9	14,513		0.75				
Weeki Wachee	7.0	3	WW-7-3	4.50	3.25	19,209.3	62,430			3.25			
Weeki Wachee	7.0	4	WW-7-4	4.50	3	20,026.8	60,081				3		
Weeki Wachee	7.0	5	WW-7-5	3.50	3	16,817.7	50,453					3	
Weeki Wachee	7.5	1	WW-7.5-1	3.50	1.75	14,423.6	25,241	1.75					1.1
Weeki Wachee	7.5	2	WW-7.5-2	5.00	1.5	14,246.3	21,369		1.5				
Weeki Wachee	7.5	3	WW-7.5-3	4.50	1	13,063.5	13,063			1			
Weeki Wachee	7.5	4	WW-7.5-4	3.75	1.25	13,528.3	16,910				1.25		
Weeki Wachee	7.5	5	WW-7.5-5	2.75	0	12,797.4	0					0	
Weeki Wachee	8.0	1	WW-8-1	4.00	0	10,673.6	0	0					0.35
Weeki Wachee	8.0	2	WW-8-2	5.00	0.25	11,990.1	2,998		0.25				
Weeki Wachee	8.0	3	WW-8-3	6.50	1	13,955.2	13,955			1			
Weeki Wachee	8.0	4	WW-8-4	4.00	0	13,741.3	0				0		
Weeki Wachee	8.0	5	WW-8-5	3.00	0.5	11,803.8	5,902					0.5	
Weeki Wachee	8.5	1	WW-8.5-1	1.00	5	19,233.8	96,169	5					1.5
Weeki Wachee	8.5	2	WW-8.5-2	2.00	0	23,400.2	0		0				
Weeki Wachee	8.5	3	WW-8.5-3	2.50	0.25	23,714.5	5,929			0.25			
Weeki Wachee	8.5	4	WW-8.5-4	4.00	0.25	23,789.0	5,947				0.25		
Weeki Wachee	8.5	5	WW-8.5-5	6.50	2	13,898.7	27,797					2	
Weeki Wachee	9.0	1	WW-9-1	8.50	1.25	11,214.2	14,018	1.25					1.45
Weeki Wachee	9.0	2	WW-9-2	6.00	0.5	16,440.3	8,220		0.5				
Weeki Wachee	9.0	3	WW-9-3	5.00	3	14,568.4	43,705			3			
Weeki Wachee	9.0	4	WW-9-4	4.50	1	14,123.5	14,124				1		
Weeki Wachee	9.0	5	WW-9-5	2.00	1.5	9,292.4	13,939					1.5	
Weeki Wachee	9.5	1	WW-9.5-1	5.75	0.75	11,162.6	8,372	0.75					1.25
Weeki Wachee	9.5	2	WW-9.5-2	5.75	0.25	9,755.7	2,439		0.25				
Weeki Wachee	9.5	3	WW-9.5-3	6.00	1.75	11,502.8	20,130			1.75			
Weeki Wachee	9.5	4	WW-9.5-4	5.00	3	11,295.5	33,886				3		
Weeki Wachee	9.5	5	WW-9.5-5	3.50	0.5	8,806.0	4,403					0.5	
Weeki Wachee	10.0	1	WW-10-1	6.00	0.5	10,237.8	5,119	0.5					1.95
Weeki Wachee	10.0	2	WW-10-2	6.00	0.25	10,898.4	2,725		0.25				
Weeki Wachee	10.0	3	WW-10-3	4.00	4	9,575.5	38,302			4			
Weeki Wachee	10.0	4	WW-10-4	3.50	4	8,869.2	35,477				4		
Weeki Wachee	10.0	5	WW-10-5	3.25	1	7,122.1	7,122					1	

ESTIMATED SEDIMENT VOLUME (FT³)

2,251,023

TABLE 6-3
Geotechnical Data
 Weeki Wachee River, October 2015
 March 2016 Sediment Assessment Report

Sample No.	Transect	Soil Description	USCS Class.	% of Total Soil (by weight) passing U.S. Standard Sieve Nos.								N M C (%)	LL (%)	PL (%)	PI (%)	Specific Gravity	(%) Organic Content
				1-inch	#4	#10	#20	#40	#60	#100	Fines #200						
WW 1.5 SED	1.5	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM	-	-	97	97	95	83	51	8	50.2	NP	NP	NP	2.64	1.3
WW 2.5 SED	2.5	Brown, dark gray fine SAND (SP)	SP	-	-	99	98	96	87	38	3	23.0	NP	NP	NP	2.66	0.2
WW 3.5 SED	3.5	Brown, dark gray M to F SAND (SP)	SP	-	-	99	99	92	37	10	2	22.2	NP	NP	NP	2.66	0.2
WW 4.5 SED	4.5	Brown, dark gray M to F SAND (SP)	SP	-	-	100	100	94	58	25	2	24.6	NP	NP	NP	2.66	0.2
WW 5.25 SED	5.25	Brown, dark gray fine SAND (SP)	SP	-	-	99	99	95	67	20	2	25.0	NP	NP	NP	2.69	0.3
WW 5.5 SED	5.5	Brown, dark gray fine SAND (SP)	SP	-	-	100	100	95	55	14	2	23.1	NP	NP	NP	2.69	0.2
WW 6.5 SED	6.5	Brown, dark gray fine SAND (SP)	SP	-	-	99	98	96	82	41	3	36.8	NP	NP	NP	2.63	0.8
WW 7.5 SED	7.5	Brown, dark gray fine SAND (SP)	SP	-	-	99	99	91	57	14	2	28.9	NP	NP	NP	2.66	0.3
WW 8.5 SED	8.5	Brown, dark gray M to F SAND (SP)	SP	-	-	100	100	94	63	21	2	21.9	NP	NP	NP	2.68	0.4
WW 10.0 SED	10.0	White fine SAND (SP)	SP	-	-		100	100	95	62	4	13.2	NP	NP	NP	2.71	0.3

Footnotes:

% - percent
 F - fine
 LL - liquid limit
 M - medium
 NMC - natural moisture content
 NP - non-plastic
 PI - plasticity index
 PL - plastic limit
 SED - sediment
 SM - silty sand
 SP - sand
 SP-SM - sand with silt
 USCS - Unified Soil Classification System
 - no sample

TABLE 6-4
Sediment Analytical Results
 Weeki Watchee River, October 2015
 March 2016 Sediment Assessment Report

Sample ID Sample Collection Date	WW 1.0 SED (10/27/15) 10/27/15 12:50	WW 1.5 SED (10/27/15) 10/27/15 11:40	WW 2.0 SED (10/27/15) 10/27/15 11:15	WW 2.5 SED (10/27/15) 10/27/15 10:15	WW 3.0 SED (10/27/15) 10/27/15 9:45	WW 3.5 SED (10/26/15) 10/26/15 15:45	WW 4.0 SED (10/26/15) 10/26/15 15:00	WW.4.5 SED (10/26/15) 10/26/15 14:10	WW 5.0 SED (10/26/15) 10/26/15 13:40	WW 5.25 SED (10/26/15) 10/26/15 11:40	
Parameter	Units										
Metals by 6010B											
Copper	mg/kg	0.27 l	0.43 l	0.64 l	0.40 l	0.29 l	0.19 U	0.20 U	0.19 U	0.19 U	0.18 U
Iron	mg/kg	36	140	790	17	49	10	110	29	35	41
Magnesium	mg/kg	150	150	84	38 l	68	12 l	93	17 l	18 l	11 l
Manganese	mg/kg	0.28 l	0.55 l	2.2	0.22 l	0.35 l	0.18 l	0.85 l	0.21 l	0.22 l	0.20 l
Potassium	mg/kg	10 l	14 l	18 l	12 l	9.5 U	9.7 U	16 l	9.7 U	9.7 U	9.2 U
Wet Chemistry by 350.1											
Ammonia (as N), Dissolved	mg/kg	1.8	4.5	1.7	3.3	1.8	0.32 U	2.0	0.32 U	0.32 U	1.8
Wet Chemistry by 351.2											
Total Kjeldahl Nitrogen	mg/kg	820	340	140	160	120	100	140	150	65 l	140
Wet Chemistry by 353.2											
Nitrate Nitrite as N, Dissolved	mg/kg	0.36 U	0.36 U	0.36 U	0.36 U	0.35 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Wet Chemistry by 354.1											
Nitrite as N, Dissolved	mg/kg	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Wet Chemistry by 365.1											
Orthophosphate, Dissolved	mg/kg	0.30 U	0.42 l	0.30 l	0.43 l	0.30 U	0.30 U				
Wet Chemistry by 365.4											
Phosphorus, Total	mg/kg	95	36	36	29	16 J3 V	16	26	17	14	20
Wet Chemistry by 9038											
Sulfate, Dissolved	mg/kg	25 U	25 U	120	25 U	26 U	28 U	24 U	27 U	27 U	24 U
Wet Chemistry by 9251											
Chloride, Dissolved	mg/kg	15 l	11 l	31 l	11 U	11 U	12 J3 U	10 U	12 U	12 U	12 l
Wet Chemistry by Nitrate by calc											
Nitrate as N, Dissolved	mg/kg	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Wet Chemistry by Total Nitrogen											
Nitrogen, Total	mg/kg	820	340	140	160	120	100	140	150	65	140

Footnotes on Page 2.

TABLE 6-4
Sediment Analytical Results
 Weeki Watchee River, October 2015
 March 2016 Sediment Assessment Report

Sample ID Sample Collection Date	WW 5.5 SED (10/26/15 10:15)	WW 6.0 SED (10/23/15) 10/23/15 13:55	WW 6.5 SED (10/23/15) 10/23/15 11:40	WW 7.0 SED (10/23/15) 10/23/15 11:15	WW 7.5 SED (10/23/15) 10/23/15 10:05	WW 8.0 SED (10/23/15) 10/23/15 9:30	WW 8.5 SED (10/22/15) 10/22/15 16:35	WW 9.0 SED (10/22/15) 10/22/15 15:50	WW 9.5 SED (10/22/15) 10/22/15 15:20	WW 10 SED (08/12/15) 08/13/15 9:55	
	Parameter	Units									
Metals by 6010B											
Copper	mg/kg	0.18 U	0.18 U	0.19 U	0.20 U	0.20 U	0.20 U	0.19 U	0.20 U	0.19 I	0.25 I
Iron	mg/kg	34	26	70	69	58	75	59	38	75	190
Magnesium	mg/kg	12 I	12 I	25 I	31 I	18 I	23 I	14 I	18 I	26 I	82
Manganese	mg/kg	0.16 I	0.23 I	0.38 I	0.24 I	0.28 I	0.31 I	0.23 I	0.23 I	0.45 I	1.2
Potassium	mg/kg	10 I	11 I	12 I	9.9 U	11 I	9.9 U	11 I	11 I	12 I	13 I
Wet Chemistry by 350.1											
Ammonia (as N), Dissolved	mg/kg	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.31 U
Wet Chemistry by 351.2											
Total Kjeldahl Nitrogen	mg/kg	100	150	130	220	78	95	150	130	96	100
Wet Chemistry by 353.2											
Nitrate Nitrite as N, Dissolved	mg/kg	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Wet Chemistry by 354.1											
Nitrite as N, Dissolved	mg/kg	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Wet Chemistry by 365.1											
Orthophosphate, Dissolved	mg/kg	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 J3 U
Wet Chemistry by 365.4											
Phosphorus, Total	mg/kg	20	21	19	26	16 V	19	18	46	34	19
Wet Chemistry by 9038											
Sulfate, Dissolved	mg/kg	27 U	25 U	26 U	25 U	25 U	28 U	28 U	27 U	26 U	51 I
Wet Chemistry by 9251											
Chloride, Dissolved	mg/kg	12 I	11 U	22 I	61	11 U	360	29 I	74	150	310
Wet Chemistry by Nitrate by calc											
Nitrate as N, Dissolved	mg/kg	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Wet Chemistry by Total Nitrogen											
Nitrogen, Total	mg/kg	100	150	130	220	78	95	150	130	96	100

Footnotes:

mg/kg - milligrams per kilogram

SED - sediment

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

I J3 - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

I V - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J3 - Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

J3 U - Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

J3 V - 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.

V - Indicates that the analyte was detected at or above the method detection limit 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

TABLE 6-5
Surface Water and Pore Water Analytical Results
 Weeki Watchee River, October 2015
 March 2016 Sediment Assessment Report

Sample ID Sample Collection Date Laboratory Order Number	WW 1.5 SW (10/27/15)	WW 1.5 PW (10/27/15)	WW 2.5 SW (10/27/15)	WW 2.5 PW (10/27/15)	WW 3.5 SW (10/26/15)	WW 3.5 PW (10/26/15)	WW 4.5 SW (10/26/15)	WW 4.5 PW (10/26/15)	WW 5.25 SW (10/26/15)	WW 5.25 PW (10/26/15)	
	10/27/15 12:10 660-70082-3	10/27/15 12:10 660-70082-4	10/27/15 10:35 660-70082-1	10/27/15 10:35 660-70082-2	10/26/15 16:10 660-70053-13	10/26/15 16:10 660-70053-14	10/26/15 14:25 660-70053-11	10/26/15 14:25 660-70053-12	10/26/15 11:50 660-70053-9	10/26/15 11:50 660-70053-10	
Field Parameters	Units										
Temperature	C	23.71	23.63	23.35	23.38	24.06	24.07	24.36	24.05	24.16	24.23
Conductivity	µS/cm	237	217	235	24.1	254	266	253	234	255	250
pH	SU	7.62	7.53	7.00	7.20	8.02	7.67	8.01	7.57	7.72	7.6
DO	%	43.2	15.5	42.1	21.1	52.2	17.3	67.3	14.2	63.2	22.7
DO	mg/L	3.65	1.31	3.59	1.78	4.39	1.44	5.63	1.19	5.3	1.81
ORP	mV	54.5	11.2	182.3	126.7	136.7	105.7	85.4	-105.3	46.5	-56.9
Turbidity	NTU	0.02	0.12	0.04	0.73	0.13	1.18	0.15	0.85	0.19	0.19
Metals by 6010B											
Copper	µg/L	2.5 U	2.5 U	2.5 U	2.5 U	5.61	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Copper, Dissolved	µg/L	2.5 U	2.5 U	7.5 I	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Iron	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	120 I
Iron, Dissolved	µg/L	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Magnesium	µg/L	6600	6300	6600	6200	6500	6400	6700	7000	6500	7500
Magnesium, Dissolved	µg/L	6700	6400	6400	6200	6600	6500	6600	7000	6600	7600
Manganese	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	4.5	2.0 I	1.0 U	4.1	1.0 U	1.0 U
Manganese, Dissolved	µg/L	1.0 U	1.0 U	6.9	1.0 U	1.0 U	1.1 I	1.0 U	3.3 I	1.0 U	1.0 U
Potassium	µg/L	1900	960 I	5500	2900	450 I	510 I	470 I	380 I	470 I	360 I
Potassium, Dissolved	µg/L	710 I	580 I	770 I	870 I	460 I	500 I	450 I	350 I	450 I	320 I
Wet Chemistry by 350.1											
Ammonia (as N)	mg/L	0.020 U	0.020 U	0.020 U	0.53	0.020 U	0.41	0.020 U	0.13	0.020 U	0.020 U
Wet Chemistry by 351.2											
Total Kjeldahl Nitrogen	mg/L	0.26 U	0.26 U	0.26 U	0.93	0.26 U	0.53	0.26 U	0.37 I	0.26 U	0.26 U
Wet Chemistry by 353.2											
Nitrate Nitrite as N	mg/L	0.89	0.30	0.89	0.018 U	0.86	0.018 U	0.84	0.038 I	0.84	0.018 U
Nitrite as N	mg/L	0.0050 U	0.0081 I	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0051 I	0.0050 U	0.0050 U
Wet Chemistry by 365.1											
Phosphorus	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry by 365.2											
Orthophosphate, Dissolved	mg/L	0.0060 I	0.0070 I	0.0050 U	0.087	0.0050 U	0.11	0.0050 U	0.047	0.0050 U	0.0060 I
Wet Chemistry by 365.4											
Phosphorus, Total	mg/L	0.054 I	0.047 I	0.038 I	0.13	0.032 U	0.16	0.032 U	0.042 I	0.032 U	0.032 U
Wet Chemistry by Nitrate by calc											
Nitrate as N	mg/L	0.89	0.29	0.89	0.010 U	0.86	0.010 U	0.84	0.033	0.84	0.010 U
Nitrate Nitrite as N	mg/L	0.89	0.30	0.89	0.010 U	0.86	0.010 U	0.84	0.038	0.84	0.010 U
Wet Chemistry by SM 4500 Cl- E											
Chloride	mg/L	11	8.6	11 J3	14	11	12	11 J3	8.5	10	9.6
Wet Chemistry by SM 4500 SO4 E											
Sulfate	mg/L	11	9.5	11	6.1	12	10	12 J3	4.4 I	12	13
Wet Chemistry by SM3500_FE_D											
Ferrous Iron	µg/L	24 I Q	47 I Q	28 I Q	77 Q	41 I Q	60 Q	47 I Q	88 Q	45 I Q	150 Q
Wet Chemistry by Total Nitrogen											
Nitrogen, Total	mg/L	0.89	0.30 I	0.89	0.93	0.86	0.53	0.84	0.41 I	0.84	0.26 U

Footnotes on Page 2.

TABLE 6-5
Surface Water and Pore Water Analytical Results
 Weeki Watchee River, October 2015
 March 2016 Sediment Assessment Report

Sample ID Sample Collection Date Laboratory Order Number	WW 5.5 SW (10/26/15) 10/26/15 10:40 660-70053-7	WW 5.5 PW (10/26/15) 10/26/15 10:40 660-70053-8	WW 6.5 SW (10/23/15) 10/23/15 12:25 660-70026-3	WW 6.5 PW (10/23/15) 10/23/15 12:25 660-70026-4	WW 7.5 SW (10/23/15) 10/23/15 10:30 660-70026-1	WW 7.5 PW (10/23/15) 10/23/15 10:30 660-70026-2	WW 8.5 SW (10/22/15) 10/22/15 17:05 660-70002-3	WW 8.5 PW (10/22/15) 10/22/15 17:05 660-70002-4	WW 10 SW (2015 AUG 13) 08/13/15 11:30 660-68601-1	WW 10 PW (2015 AUG 13) 08/13/15 11:00 660-68601-2	
Field Parameters	Units										
Temperature	C	24.23	24.38	24.29	24.07	23.29	23.38	24.74	24.3	24.92	24.6
Conductivity	µS/cm	254	253	264	328	264	667	301	3089	420	3120
pH	SU	7	7.08	7.81	7.14	6.88	6.55	7.97	7.2	7.9	7.31
DO	%	61.4	14	71.8	12.9	66.4	19.4	85	11.7	87	11.7
DO	mg/L	5.15	1.17	6.01	1.1	5.66	1.63	7.05	0.97	7.1	0.97
ORP	mV	151.3	190.9	112.6	-122.1	130	-114.9	70.6	-318.8	73	-321
Turbidity	NTU	0.25	0.24	0.19	0.38	0.04	0.2	0.62	2.64	0.91	6.23
Metals by 6010B											
Copper	µg/L	2.5 U	2.7 I	2.5 U	3.4 I						
Copper, Dissolved	µg/L	2.5 U	2.9 I	5.0 U	3.4 I						
Iron	µg/L	50 U	93 I	50 U	370	50 U	2200	50 U	50 U	170 I	50 U
Iron, Dissolved	µg/L	50 U	100 U	50 U							
Magnesium	µg/L	6600 J3	7900	6300	6300	6500	7400	6600	58000	6700	150000
Magnesium, Dissolved	µg/L	6600	8100	6300	6600	6500	7500	6700	59000	14000	150000
Manganese	µg/L	1.0 U	1.9 I	1.0 U	4.5	1.0 U	50	1.0 U	1.0 U	1.6 I	40
Manganese, Dissolved	µg/L	1.0 U	1.8 I	1.0 U	4.0	1.0 U	46	1.0 U	1.0 U	2.0 U	41
Potassium	µg/L	470 I	810 I	460 I	1100	530 I	6800	520 I	18000	1100	59000
Potassium, Dissolved	µg/L	450 I	780 I	410 I	1000	500 I	6700	480 I	18000	1800 I	59000
Wet Chemistry by 350.1											
Ammonia (as N)	mg/L	0.020 U	0.83	0.020 U	2.0	0.020 U	30	0.020 U	2.7	0.12	0.78
Wet Chemistry by 351.2											
Total Kjeldahl Nitrogen	mg/L	0.26 U	1.1	0.26 U	2.5	0.26 U	34	0.26 U	3.6	0.44 I	1.1
Wet Chemistry by 353.2											
Nitrate Nitrite as N	mg/L	0.87	0.018 U	0.82	0.11	0.84	0.018 U	0.71	0.068 V	0.72	0.018 U
Nitrite as N	mg/L	0.0050 U	0.0050 U	0.0050 U	0.019	0.0050 U	0.0050 U	0.0050 U	0.0050 J3 U	0.0050 U	0.0050 U
Wet Chemistry by 365.1											
Phosphorus	mg/L	NA	0.010	0.081							
Wet Chemistry by 365.2											
Orthophosphate, Dissolved	mg/L	0.0050 U	0.19	0.10	0.34	0.0050 U	6.4	0.0060 I	0.11	0.0050 U	0.082
Wet Chemistry by 365.4											
Phosphorus, Total	mg/L	0.032 U	0.20	0.032 U	0.31	0.032 U	5.1	0.032 U	0.27	NA	NA
Wet Chemistry by Nitrate by calc											
Nitrate as N	mg/L	0.87	0.010 U	0.82	0.091	0.84	0.010 U	0.71	0.068	0.72	0.010 U
Nitrate Nitrite as N	mg/L	0.87	0.010 U	0.82	0.11	0.84	0.010 U	0.71	0.068	0.72	0.010 U
Wet Chemistry by SM 4500 Cl- E											
Chloride	mg/L	11	11	11	14	12	18	15	1100 J3	20	3300
Wet Chemistry by SM 4500 SO4 E											
Sulfate	mg/L	12	1.4 U	12	4.8 I	12	1.4 U	13	16	13	380
Wet Chemistry by SM3500_FE_D											
Ferrous Iron	µg/L	47 I Q	150 Q	49 I Q	400 Q	49 I Q	2400 Q	34 I Q	92 Q	180 Q	130 Q
Wet Chemistry by Total Nitrogen											
Nitrogen, Total	mg/L	0.87	1.1	0.82	2.6	0.84	34	0.71	3.7	1.2	1.1

Footnotes:

mg/L - milligrams per liter

µg/L - micrograms/liter

MDL - method detection limit

PQL - practical quantitation limit

I - The reported value is between the laboratory MDL and the laboratory PQL.

I Q - The reported value is between the laboratory MDL and the laboratory PQL.

I V - The reported value is between the laboratory MDL and the laboratory PQL.

J3 - Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

J3 U - Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

J3 V - Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.

Q - Sample held beyond the accepted holding time.

NA - not analyzed

Q U - Sample held beyond the accepted holding time.

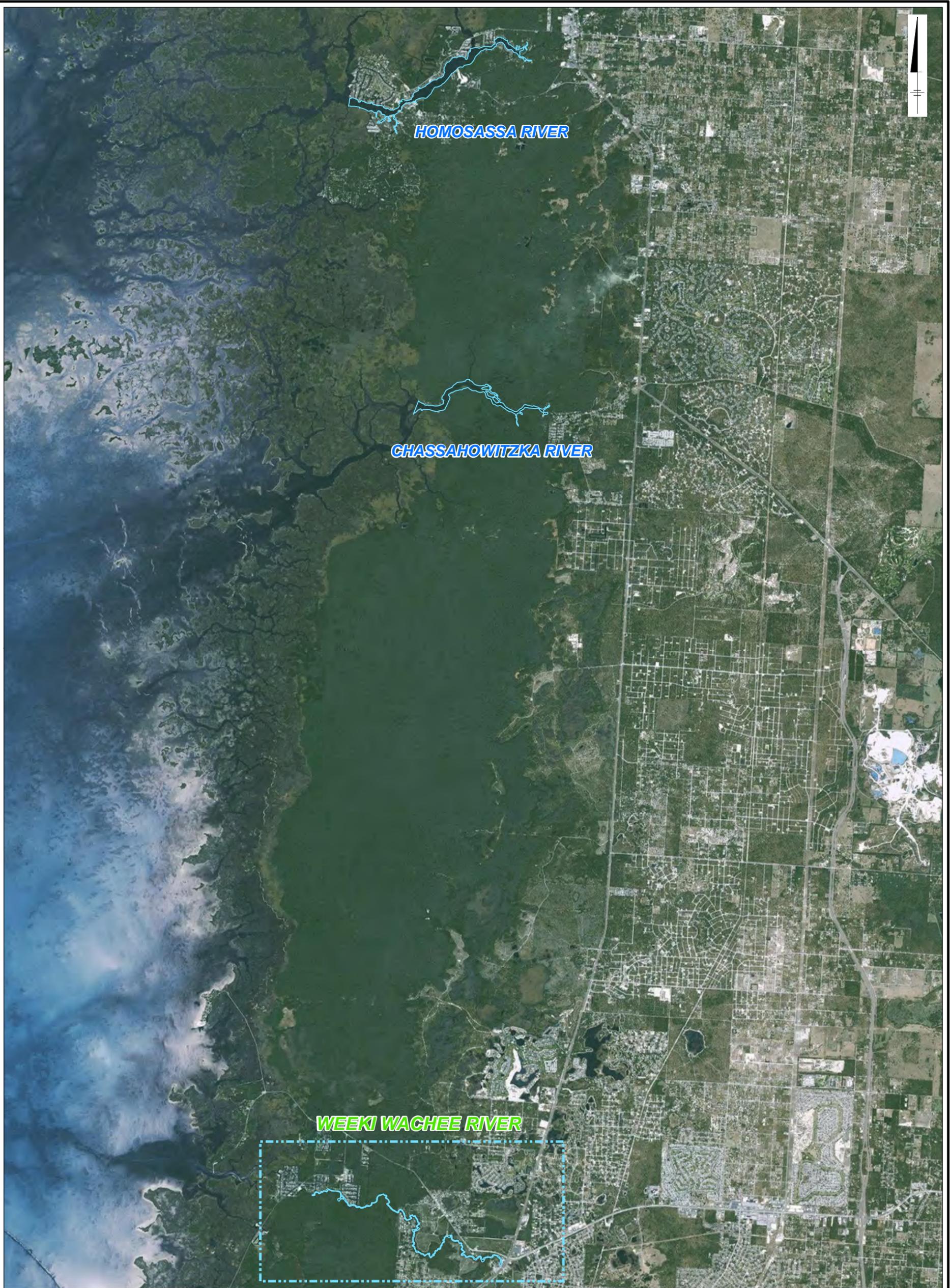
U - Indicates that the compound was analyzed for but not detected.

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.

SW - surface water

PW - pore water

6.7.2 Figures



LEGEND:
 STUDY AREA SHORELINE

Prepared for:
 Southwest Florida Water Management District

Imagery Source: ESRI World Imagery
 Imagery date 8/12/2013

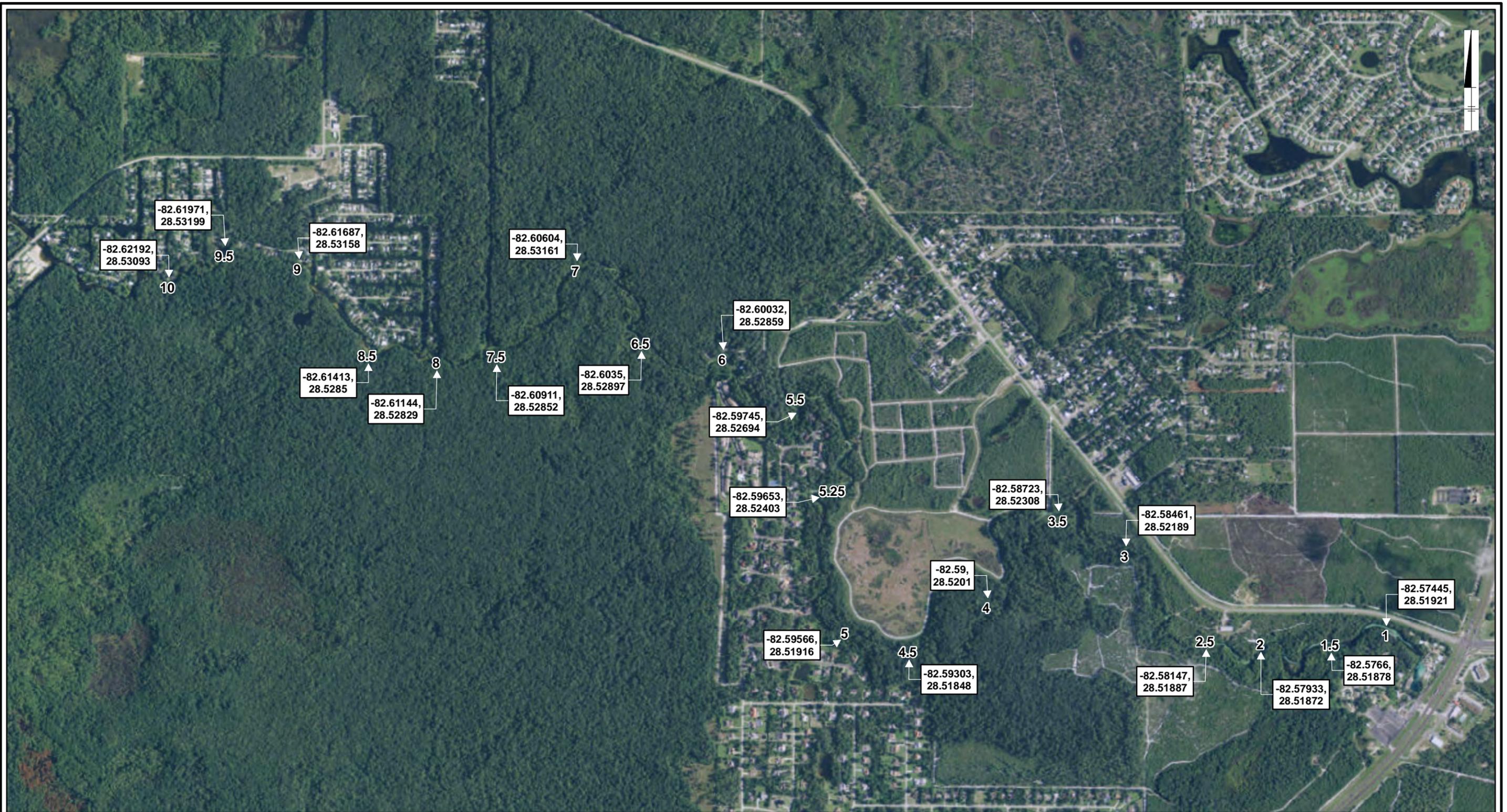


**COASTAL RIVERS SEDIMENT
 ASSESSMENT STUDY AREA**

March 2016 Sediment Assessment Report



**FIGURE
 6-1**



LEGEND:

— TRANSECT LOCATION AND IDENTIFICATION

Prepared for:
Southwest Florida Water Management District

**WEEKI WACHEE
TRANSECT LOCATIONS**

Imagery Source: ESRI World Imagery
Imagery date 8/12/2013

March 2016 Sediment Assessment Report





LEGEND:

- ROD LOCATION
 - TRANSECT LOCATION
- | SEDIMENT THICKNESS, FT |
|---|
| 0 - 1 |
| 1 - 2 |
| 2 - 3 |
| 3 - 4 |
| 4 - 5 |
| 5 - 6 |
| 6 - 7 |

NOTES:
 FT: FEET
 SAMPLING DATES: OCTOBER 22 - 27, 2015

Prepared for:
Southwest Florida Water Management District

**WEEKI WACHEE TRANSECTS
 SEDIMENT THICKNESS**

Imagery Source: ESRI World Imagery
 Imagery date 8/12/2013

March 2016 Sediment Assessment Report





LEGEND:

- ROD LOCATION
 - TRANSECT LOCATION
- | SEDIMENT THICKNESS, FT |
|---|
| 0 - 1 |
| 1 - 2 |
| 2 - 3 |
| 3 - 4 |
| 4 - 5 |
| 5 - 6 |
| 6 - 7 |

NOTES:
 FT: FEET
 SAMPLING DATES: OCTOBER 22 - 27, 2015

Prepared for:
Southwest Florida Water Management District

**WEEKI WACHEE TRANSECTS
 SEDIMENT THICKNESS**

Imagery Source: ESRI World Imagery
 Imagery date 8/12/2013

March 2016 Sediment Assessment Report



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for natural and built assets | **FIGURE 6-3B**

5
6
7
8



LEGEND:

% ORGANICS		% FINES		PRIMARY LITHOLOGY	
<2		< 5			SAND
2 - 4		5 - 10			SAND WITH SILT
4 - 6		10 - 15			SILTY SAND
6 - 8		15 - 20			TRANSECT LOCATION
8 - 10		20 - 25		VALUES PRESENTED ARE IN PERCENT OF TOTAL VOLUME OF SEDIMENT	
		25 - 30		SAMPLING DATES: OCTOBER 22 - 27, 2015	

Prepared for:
Southwest Florida Water Management District

Imagery Source: ESRI World Imagery
Imagery date 8/12/2013

0 550 1,100 Feet
GRAPHIC SCALE

**WEEKI WACHEE TRANSECTS
SEDIMENT CHARACTER**

March 2016 Sediment Assessment Report

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FIGURE 6-4A



LEGEND:

% ORGANICS	% FINES	PRIMARY LITHOLOGY
<2	< 5	SAND
2 - 4	5 - 10	SAND WITH SILT
4 - 6	10 - 15	SILTY SAND
6 - 8	15 - 20	TRANSECT LOCATION
8 - 10	20 - 25	
	25 - 30	

VALUES PRESENTED ARE IN PERCENT OF TOTAL VOLUME OF SEDIMENT
 SAMPLING DATES: OCTOBER 22 - 27, 2015

Prepared for:
 Southwest Florida Water Management District

Imagery Source: ESRI World Imagery
 Imagery date 8/12/2013

0 550 1,100 Feet
 GRAPHIC SCALE

**WEEKI WACHEE TRANSECTS
 SEDIMENT CHARACTER**

March 2016 Sediment Assessment Report

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FIGURE 6-4B



WW 5.5 SED
 Copper: 0.18 U
 Magnesium: 12 I
 Potassium: 10 I
 Chloride: 12 I

WW 5.25 SED
 Copper: 0.18 U
 Magnesium: 11 I
 Potassium: 9.2 U
 Chloride: 12 I

WW 3.5 SED
 Copper: 0.19 U
 Magnesium: 12 I
 Potassium: 9.7 U
 Chloride: 12 U J3

WW 4.5 SED
 Copper: 0.19 U
 Magnesium: 17 I
 Potassium: 9.7 U
 Chloride: 12 U

WW 2.5 SED
 Copper: 0.40 I
 Magnesium: 38 I
 Potassium: 12 I
 Chloride: 11 U

WW 1.5 SED
 Copper: 0.43 I
 Magnesium: 150
 Potassium: 14 I
 Chloride: 11 I

LEGEND:

IRON	MANGANESE	TRANSECT LOCATION
0 - 50	0 - 1	SHORELINE
50 - 100	1 - 3	
100 - 500	3 - 5	
500 - 1000	5 - 10	
1000 - 3000	10 - 15	
> 3000	> 15	

ALL RESULTS ARE REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg)
 SAMPLING DATES: OCTOBER 19 - 22, 2015

<p>Prepared for: Southwest Florida Water Management District</p>	<p>WEEKI WACHEE TRANSECTS IRON AND MANGANESE RESULTS SEDIMENT</p>
<p>Imagery Source: ESRI World Imagery Imagery date 8/12/2013</p>	<p>March 2016 Sediment Assessment Report</p>
<p>0 550 1,100 Feet GRAPHIC SCALE</p>	<p>ARCADIS Design & Consultancy for natural and built assets</p> <p>FIGURE 6-5A</p>



WW 10 SED
 Copper: 0.25 I
 Magnesium: 82
 Potassium: 13 I
 Chloride: 310

WW 8.5 SED
 Copper: 0.19 U
 Magnesium: 14 I
 Potassium: 11 I
 Chloride: 29 I

WW 7.5 SED
 Copper: 0.20 U
 Magnesium: 18 I
 Potassium: 11 I
 Chloride: 11 U

WW 6.5 SED
 Copper: 0.19 U
 Magnesium: 25 I
 Potassium: 12 I
 Chloride: 22 I

WW 5.5 SED
 Copper: 0.18 U
 Magnesium: 12 I
 Potassium: 10 I
 Chloride: 12 I

LEGEND:

IRON	MANGANESE	TRANSECT LOCATION
0 - 50	0 - 1	SHORELINE
50 - 100	1 - 3	
100 - 500	3 - 5	ALL RESULTS ARE REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg)
500 - 1000	5 - 10	SAMPLING DATES: OCTOBER 22 - 27, 2015
1000 - 3000	10 - 15	
> 3000	> 15	

Prepared for: Southwest Florida Water Management District	WEEKI WACHEE TRANSECTS IRON AND MANGANESE RESULTS SEDIMENT
Imagery Source: ESRI World Imagery Imagery date 8/12/2013	March 2016 Sediment Assessment Report
 GRAPHIC SCALE	
	FIGURE 6-5B



LEGEND:

	SURFACE WATER AMMONIA RESULT
	PORE WATER AMMONIA RESULT
	SURFACE WATER NITRATE RESULT
	PORE WATER NITRATE RESULT

AMMONIA CONCENTRATION	NITRATE CONCENTRATION
0.02	0.00 - 0.18
0.03 - 0.12	0.19 - 0.36
0.13 - 0.26	0.37 - 0.89
0.27 - 6.50	

SAMPLING DATES: OCTOBER 22 - 27, 2015

TRANSECT LOCATION
 SHORELINE

REPORTING UNITS

Ammonia	mg/L
Nitrate	mg/L
Conductivity	µS/cm
pH	SU
Dissolved Oxygen	mg/L
ORP	mV
Turbidity	NTU
Phosphorus	mg/L
Chloride	mg/L
Sulfate	mg/L
Nitrogen_Total	mg/L

Prepared for:
Southwest Florida Water Management District

Imagery Source: ESRI World Imagery
 Imagery date 8/12/2013

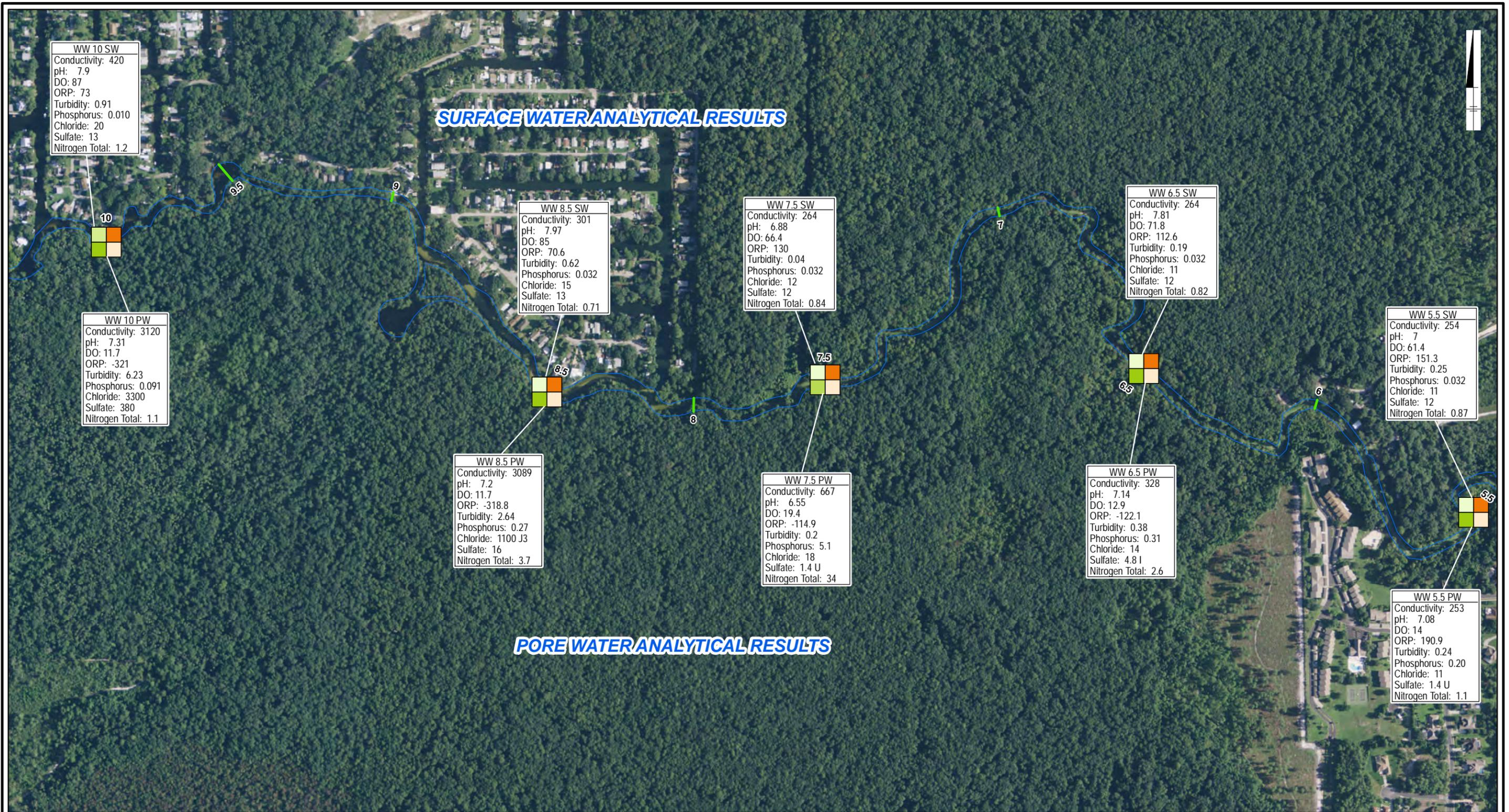


**WEEKI WACHEE TRANSECTS
 AMMONIA AND NITRATE RESULTS**

March 2016 Sediment Assessment Report



**FIGURE
 6-6A**



WW 10 SW
 Conductivity: 420
 pH: 7.9
 DO: 87
 ORP: 73
 Turbidity: 0.91
 Phosphorus: 0.010
 Chloride: 20
 Sulfate: 13
 Nitrogen Total: 1.2

SURFACE WATER ANALYTICAL RESULTS

WW 8.5 SW
 Conductivity: 301
 pH: 7.97
 DO: 85
 ORP: 70.6
 Turbidity: 0.62
 Phosphorus: 0.032
 Chloride: 15
 Sulfate: 13
 Nitrogen Total: 0.71

WW 7.5 SW
 Conductivity: 264
 pH: 6.88
 DO: 66.4
 ORP: 130
 Turbidity: 0.04
 Phosphorus: 0.032
 Chloride: 12
 Sulfate: 12
 Nitrogen Total: 0.84

WW 6.5 SW
 Conductivity: 264
 pH: 7.81
 DO: 71.8
 ORP: 112.6
 Turbidity: 0.19
 Phosphorus: 0.032
 Chloride: 11
 Sulfate: 12
 Nitrogen Total: 0.82

WW 10 PW
 Conductivity: 3120
 pH: 7.31
 DO: 11.7
 ORP: -321
 Turbidity: 6.23
 Phosphorus: 0.091
 Chloride: 3300
 Sulfate: 380
 Nitrogen Total: 1.1

WW 8.5 PW
 Conductivity: 3089
 pH: 7.2
 DO: 11.7
 ORP: -318.8
 Turbidity: 2.64
 Phosphorus: 0.27
 Chloride: 1100 J3
 Sulfate: 16
 Nitrogen Total: 3.7

WW 7.5 PW
 Conductivity: 667
 pH: 6.55
 DO: 19.4
 ORP: -114.9
 Turbidity: 0.2
 Phosphorus: 5.1
 Chloride: 18
 Sulfate: 1.4 U
 Nitrogen Total: 34

WW 6.5 PW
 Conductivity: 328
 pH: 7.14
 DO: 12.9
 ORP: -122.1
 Turbidity: 0.38
 Phosphorus: 0.31
 Chloride: 14
 Sulfate: 4.8 I
 Nitrogen Total: 2.6

WW 5.5 SW
 Conductivity: 254
 pH: 7
 DO: 61.4
 ORP: 151.3
 Turbidity: 0.25
 Phosphorus: 0.032
 Chloride: 11
 Sulfate: 12
 Nitrogen Total: 0.87

PORE WATER ANALYTICAL RESULTS

WW 5.5 PW
 Conductivity: 253
 pH: 7.08
 DO: 14
 ORP: 190.9
 Turbidity: 0.24
 Phosphorus: 0.20
 Chloride: 11
 Sulfate: 1.4 U
 Nitrogen Total: 1.1

- LEGEND:**
- SURFACE WATER AMMONIA RESULT
 - PORE WATER AMMONIA RESULT
 - SURFACE WATER NITRATE RESULT
 - PORE WATER NITRATE RESULT

AMMONIA CONCENTRATION	NITRATE CONCENTRATION
0.02	0.00 - 0.18
0.03 - 0.12	0.19 - 0.36
0.13 - 0.26	0.37 - 0.89
0.27 - 6.50	

SAMPLING DATES: OCTOBER 22 - 27, 2015

REPORTING UNITS

Ammonia	mg/L
Nitrate	mg/L
Conductivity	µS/cm
pH	SU
Dissolved Oxygen	mg/L
ORP	mV
Turbidity	NTU
Phosphorus	mg/L
Chloride	mg/L
Sulfate	mg/L
Nitrogen_Total	mg/L

Prepared for:
 Southwest Florida Water Management District

Imagery Source: ESRI World Imagery
 Imagery date 8/12/2013

0 550 1,100 Feet
 GRAPHIC SCALE

**WEEKI WACHEE TRANSECTS
 AMMONIA AND NITRATE RESULTS**

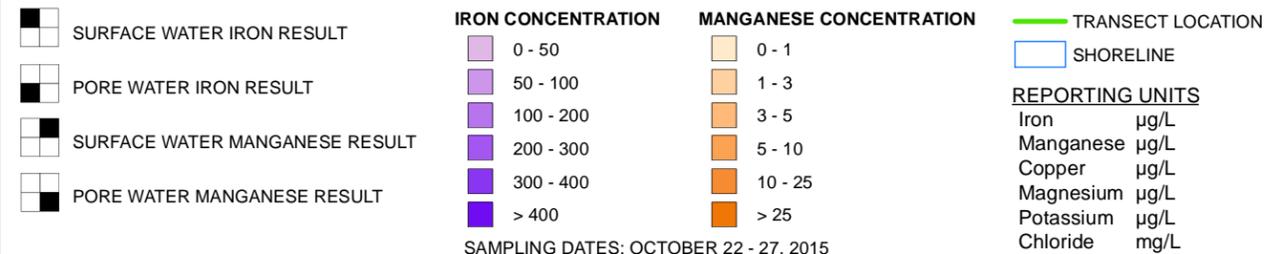
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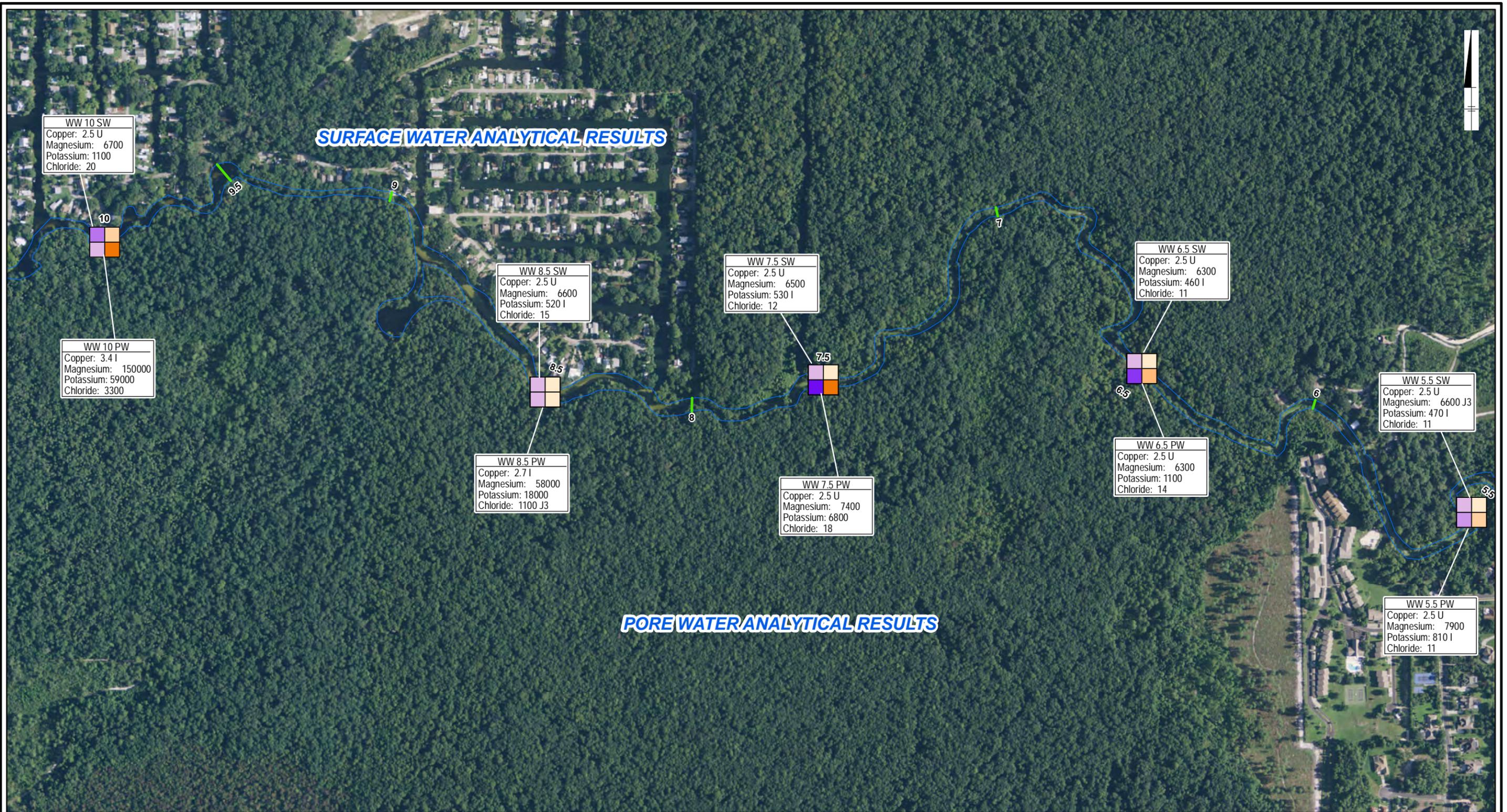
FIGURE 6-6B



LEGEND:



<p>Prepared for: Southwest Florida Water Management District</p>	<p>WEEKI WACHEE TRANSECTS IRON AND MANGANESE RESULTS</p>
<p>Imagery Source: ESRI World Imagery Imagery date 8/12/2013</p>	<p>March 2016 Sediment Assessment Report</p>
<p>0 550 1,100 Feet GRAPHIC SCALE</p>	<p> ARCADIS Design & Consultancy for natural and built assets</p> <p>FIGURE 6-7A</p>



SURFACE WATER ANALYTICAL RESULTS

PORE WATER ANALYTICAL RESULTS

LEGEND:

	SURFACE WATER IRON RESULT		IRON CONCENTRATION		MANGANESE CONCENTRATION		TRANSECT LOCATION
	PORE WATER IRON RESULT		0 - 50		0 - 1		SHORELINE
	SURFACE WATER MANGANESE RESULT		50 - 100		1 - 3		
	PORE WATER MANGANESE RESULT		100 - 200		3 - 5		
			200 - 300		5 - 10		
			300 - 400		10 - 25		
			> 400		> 25		

SAMPLING DATES: OCTOBER 22 - 27, 2015

REPORTING UNITS
 Iron µg/L
 Manganese µg/L
 Copper µg/L
 Magnesium µg/L
 Potassium µg/L
 Chloride mg/L

Prepared for:
 Southwest Florida Water Management District

Imagery Source: ESRI World Imagery
 Imagery date 8/12/2013

0 550 1,100
 Feet
 GRAPHIC SCALE

**WEEKI WACHEE TRANSECTS
 IRON AND MANGANESE RESULTS**

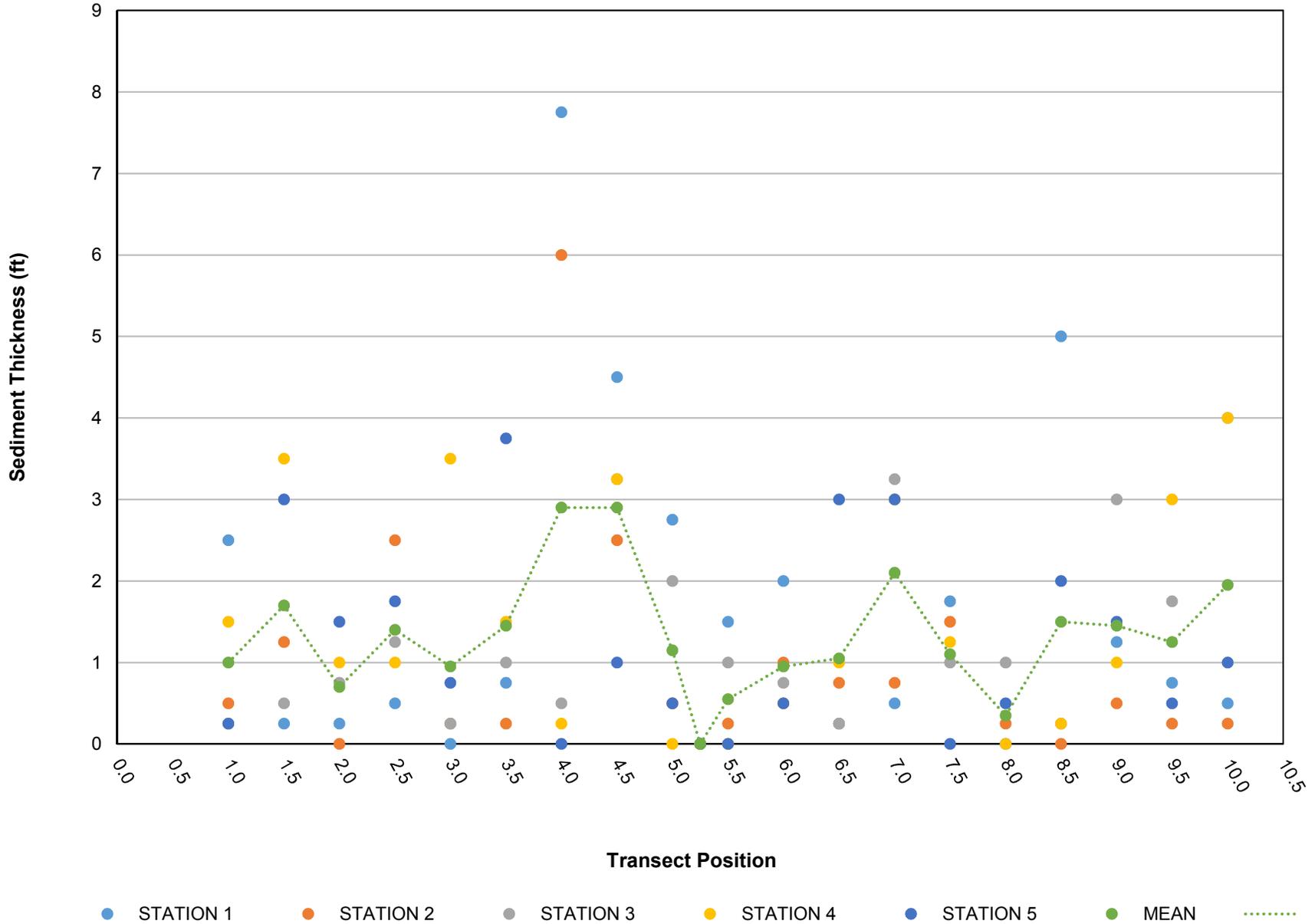
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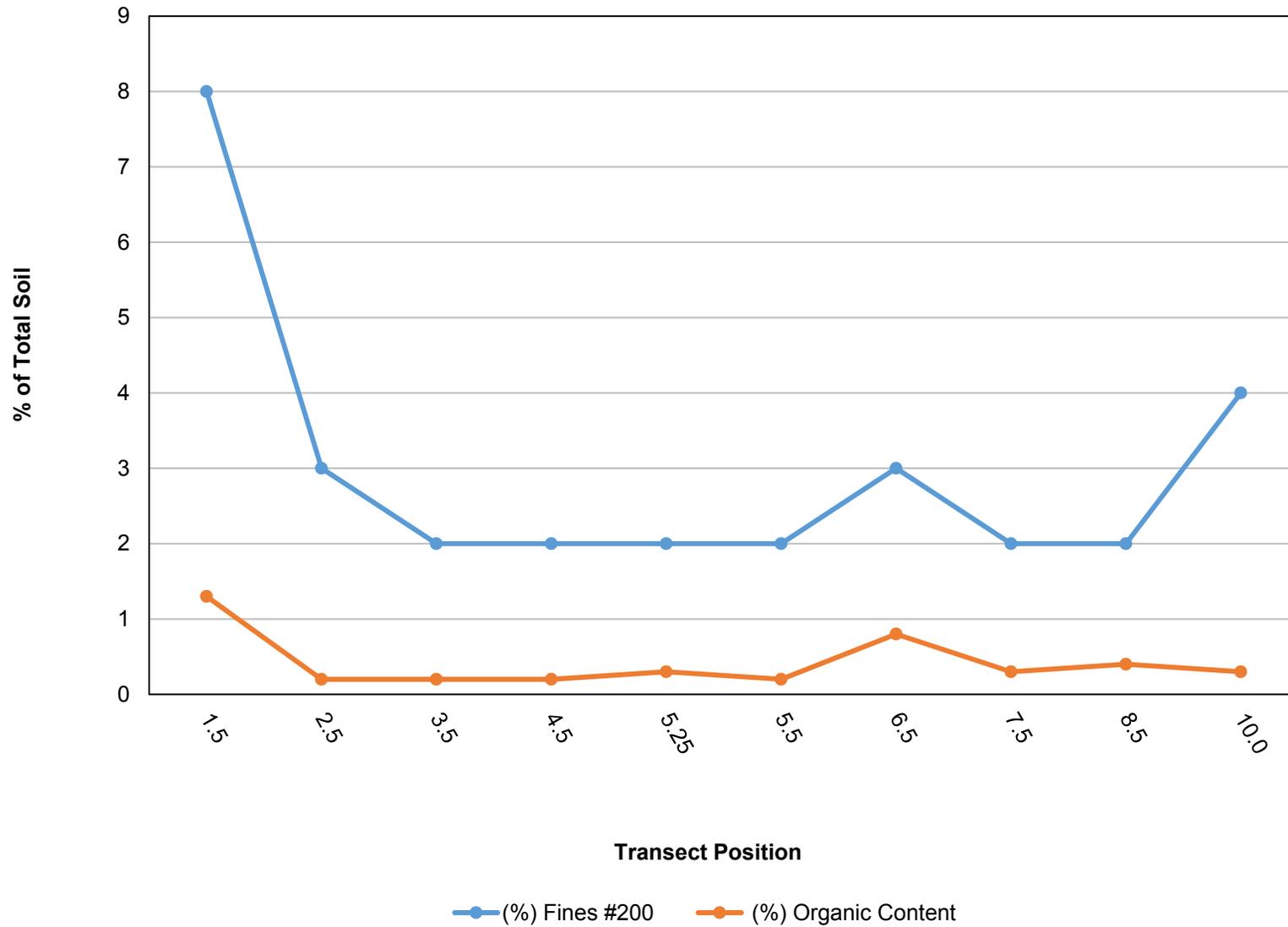
**FIGURE
 6-7B**

6.7.3 Trend Graphs

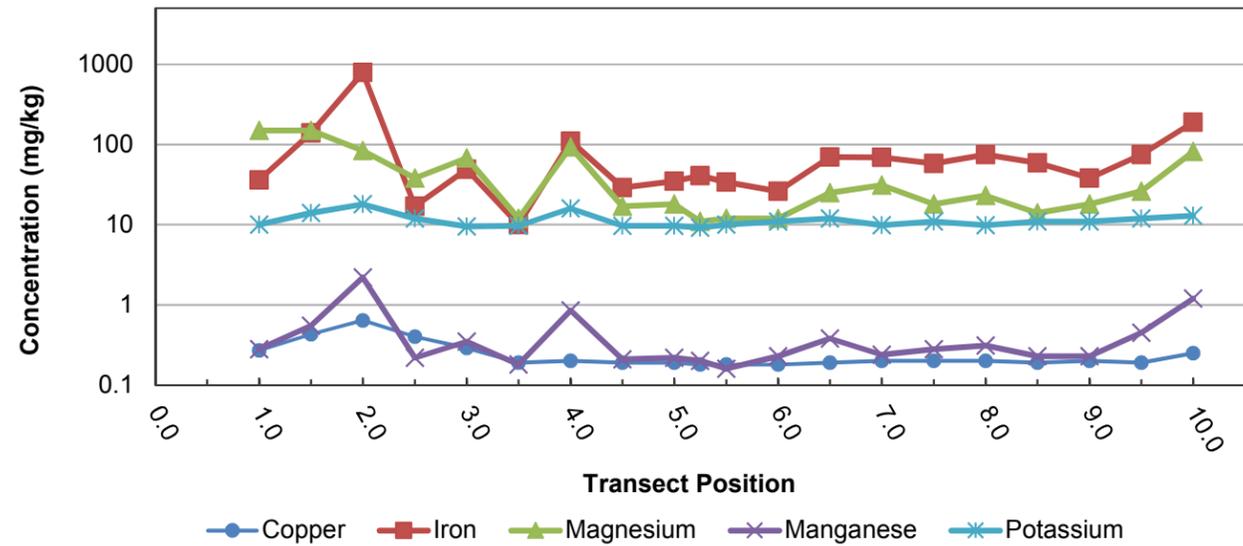
GRAPH 6-1. Sediment Thickness by Transect and
 Weeki Watchee River, October 2015
 March 2016 Sediment Assessment Report



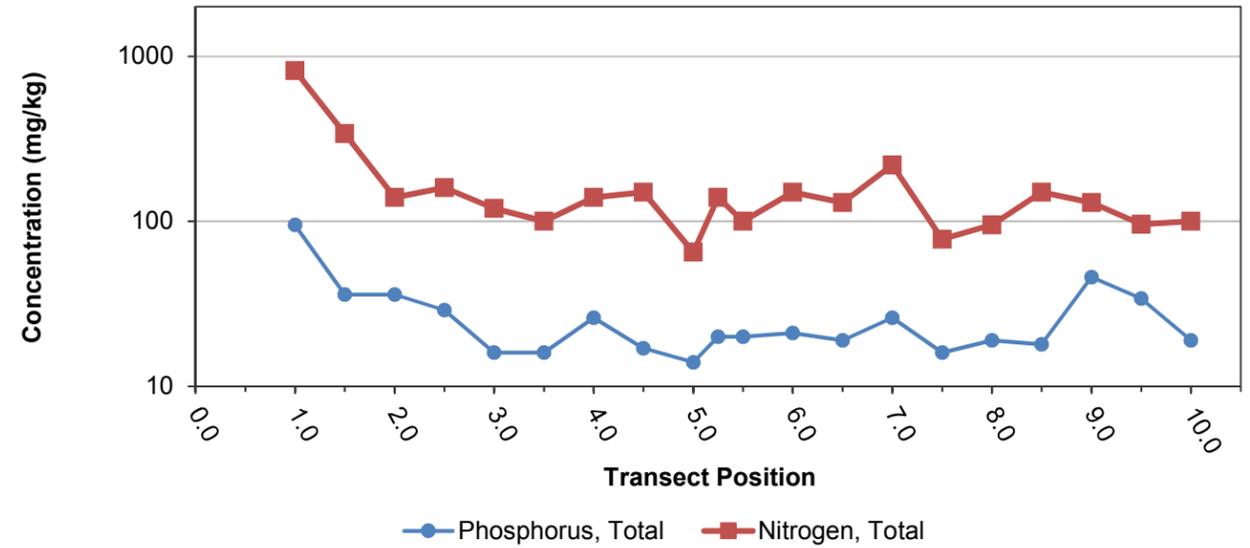
GRAPH 6-2. Geotechnical Data
Weeki Watchee River, October 2015
March 2016 Sediment Assessment Report



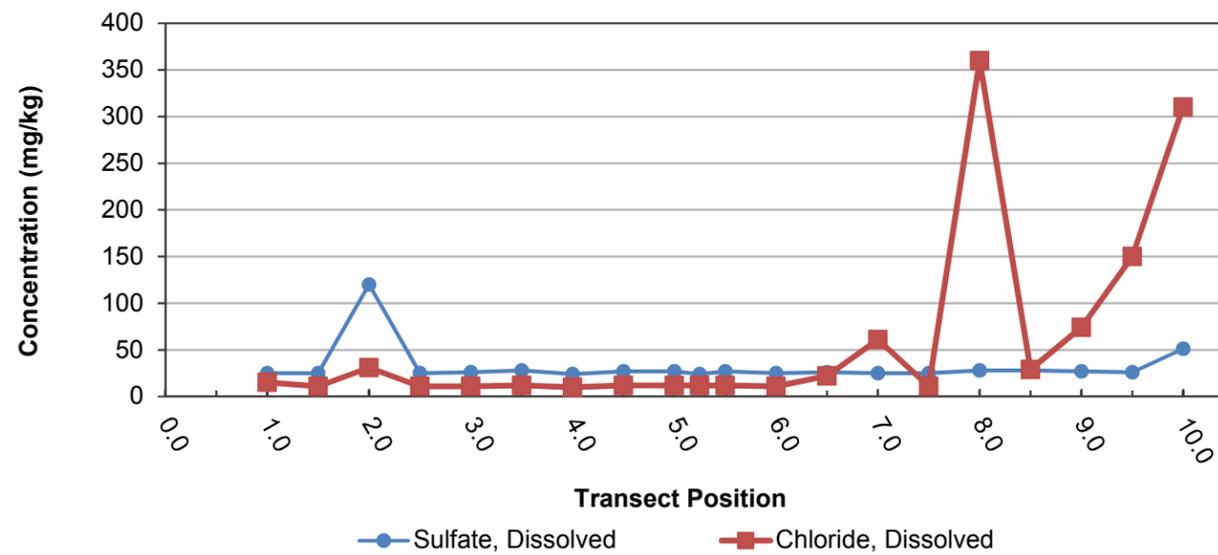
Total Metals Concentrations in Sediment



Total Nutrients Concentrations in Sediment

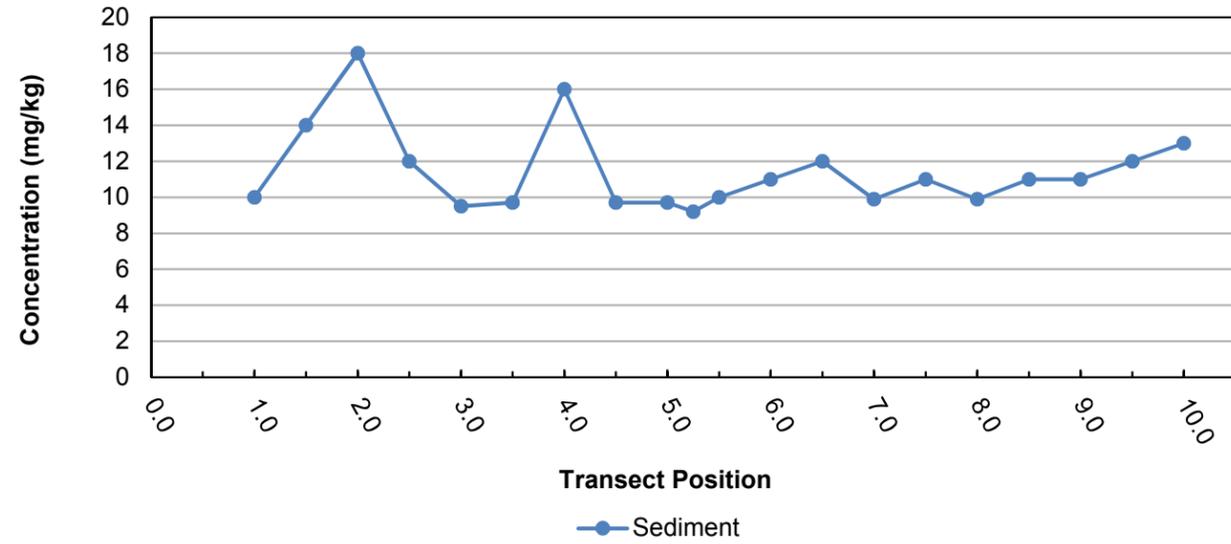


Total Inorganics Concentrations in Sediment

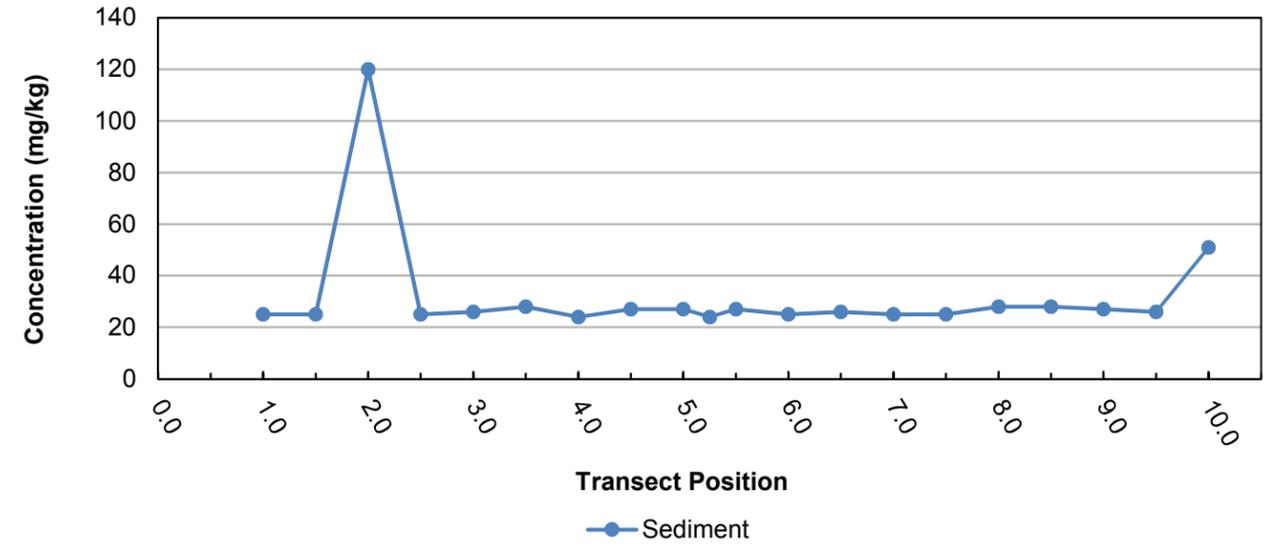


NOTES:
mg/kg - milligrams per kilogram

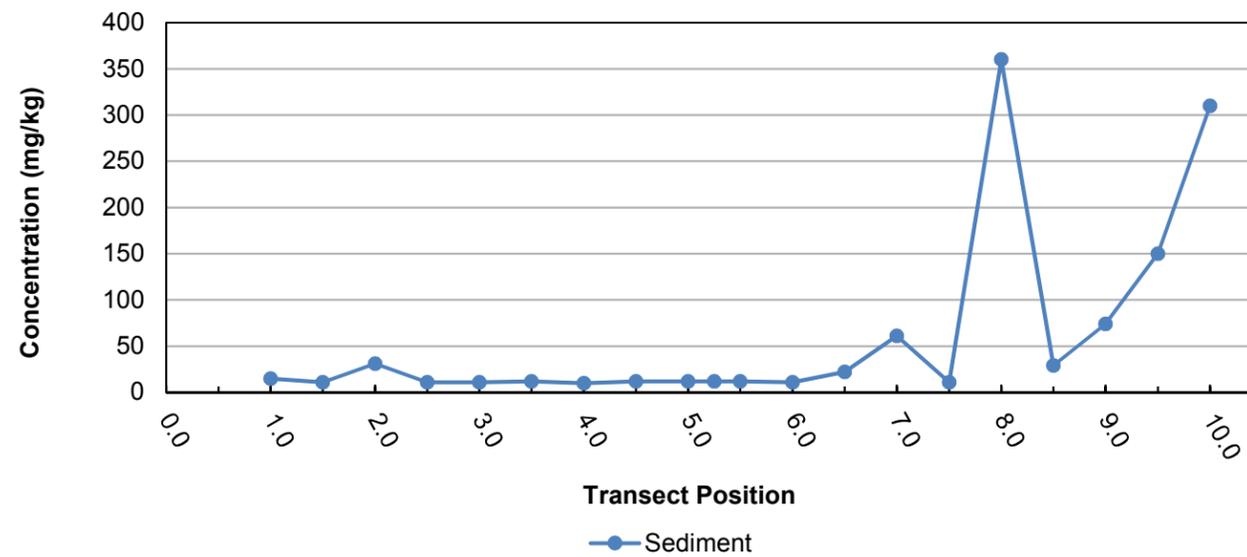
Potassium Concentrations in Sediment



Dissolved Sulfate Concentrations in Sediment

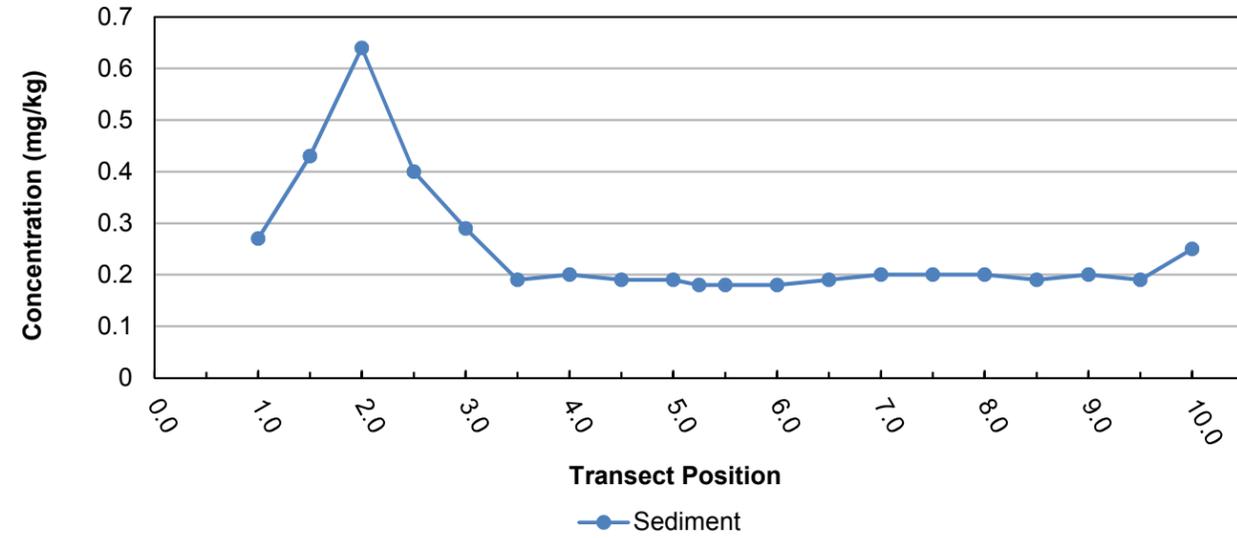


Dissolved Chloride Concentrations in Sediment

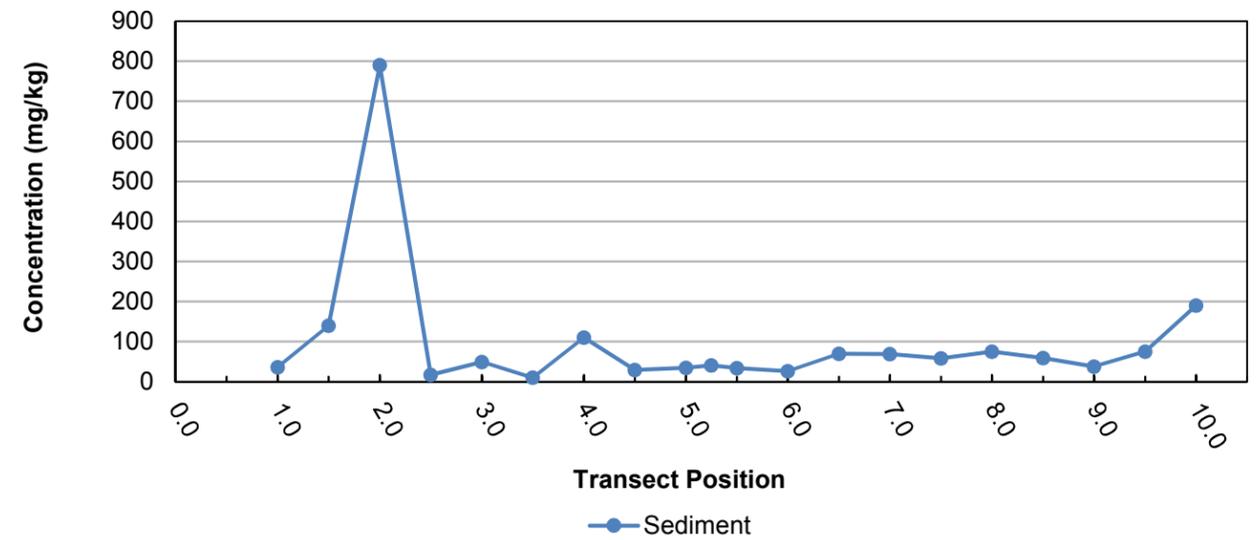


NOTES:
mg/kg - milligrams per kilogram

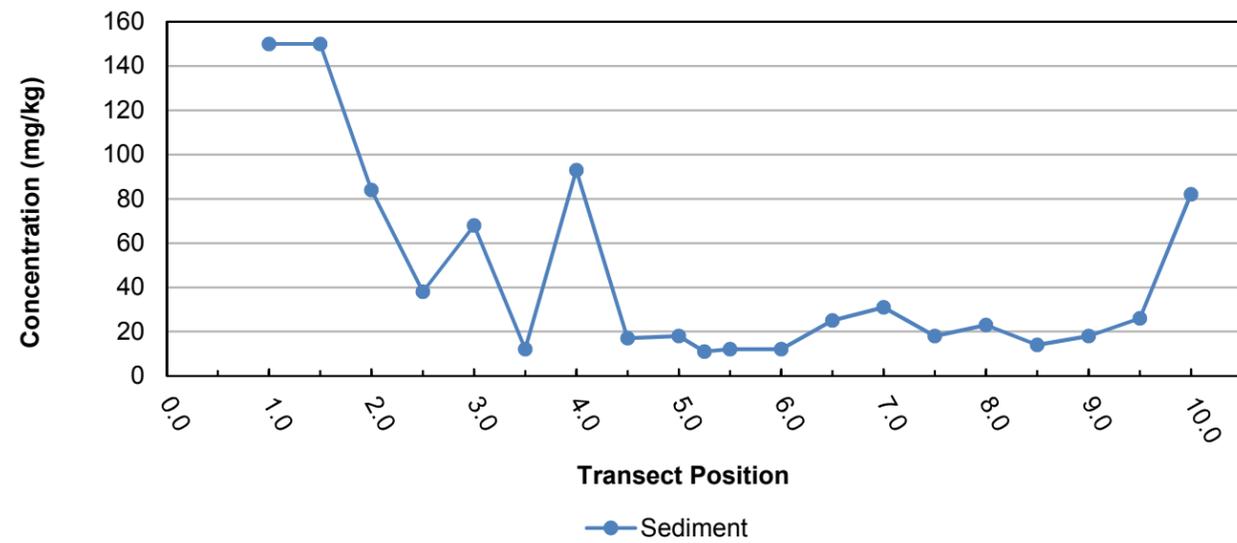
Copper Concentrations in Sediment



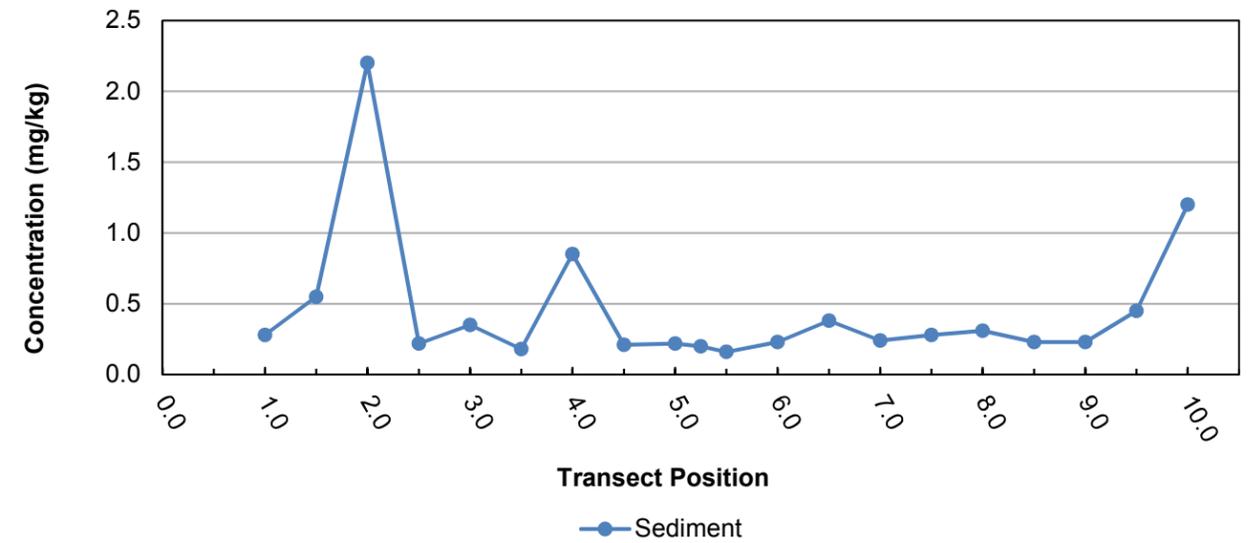
Iron Concentrations in Sediment



Magnesium Concentrations in Sediment



Manganese Concentrations in Sediment

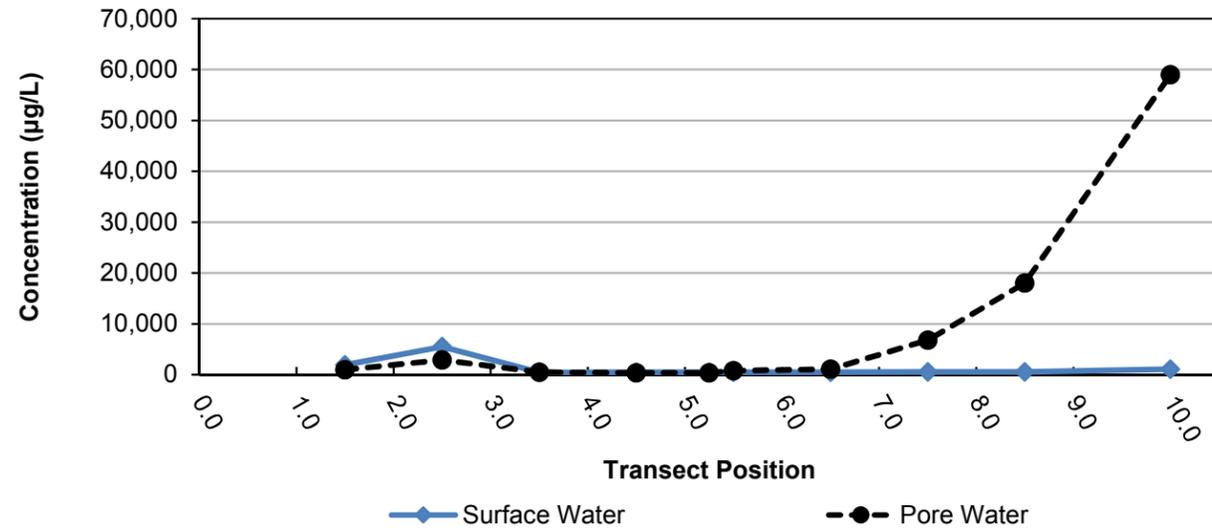


NOTES:
mg/kg - milligrams per kilogram

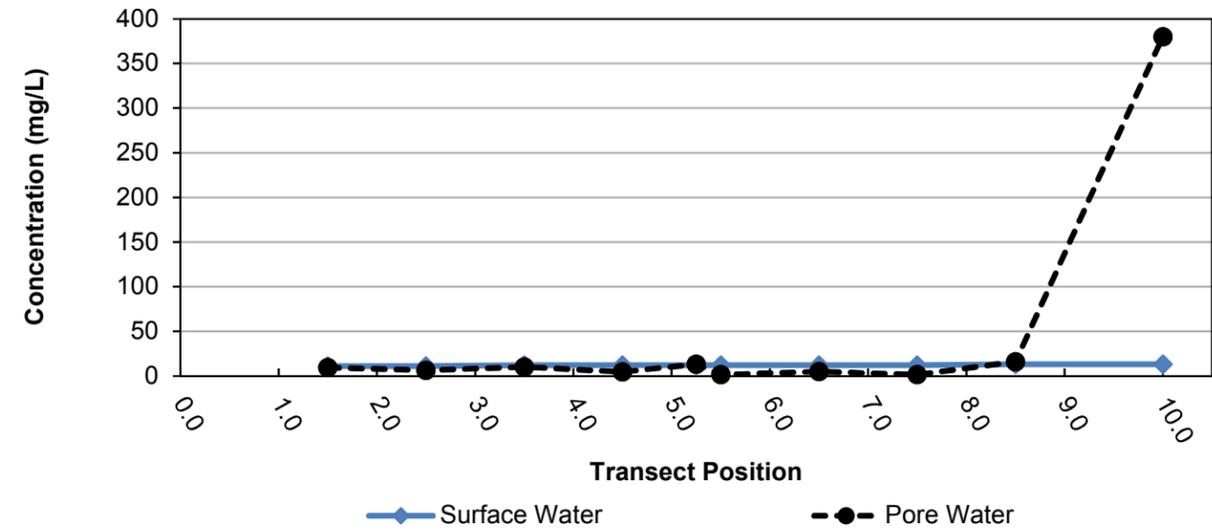
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT
 SEDIMENT ASSESSMENT REPORT
 COASTAL RIVERS: HOMOSASSA, CHASSAHOWITZKA,
 AND WEEKI WACHEE
CONCENTRATIONS IN SEDIMENT
 Weeki Watchee River
 October 2015



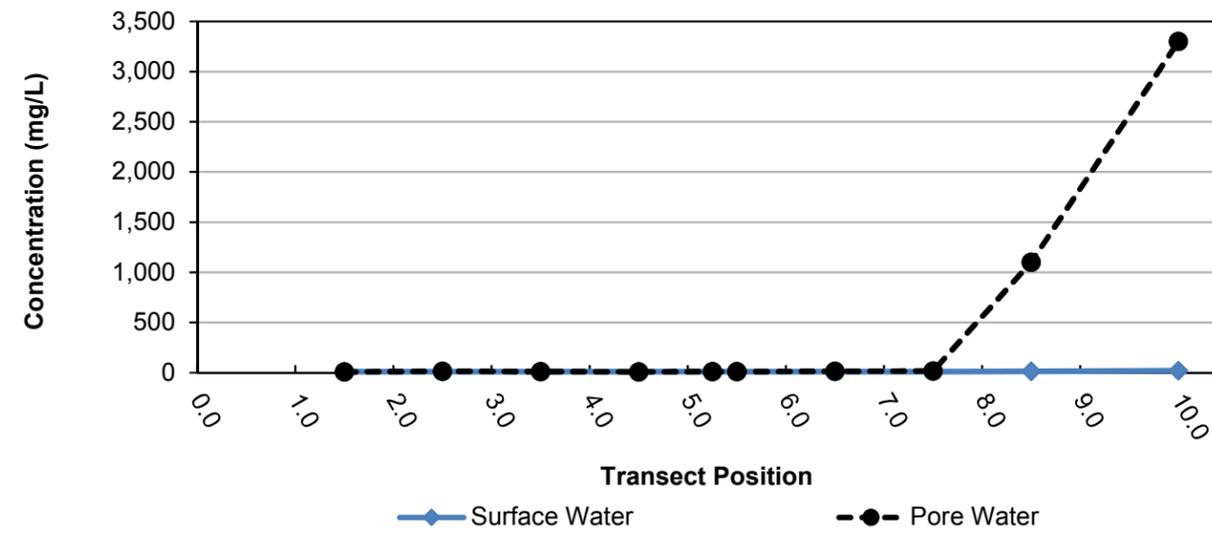
Potassium Concentrations in Water



Sulfate Concentrations in Water

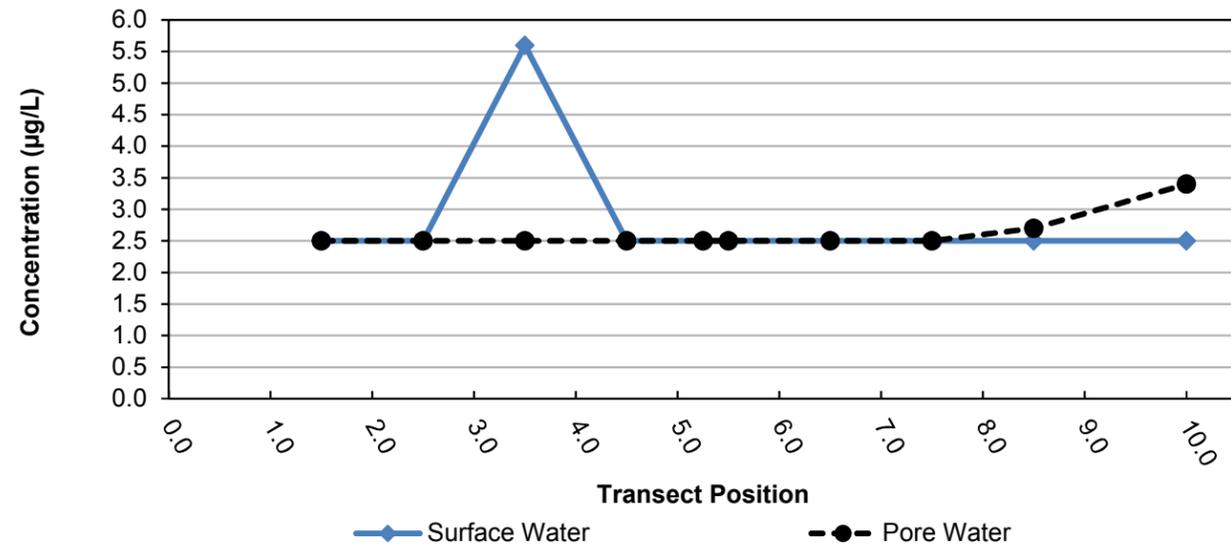


Chloride Concentrations in Water

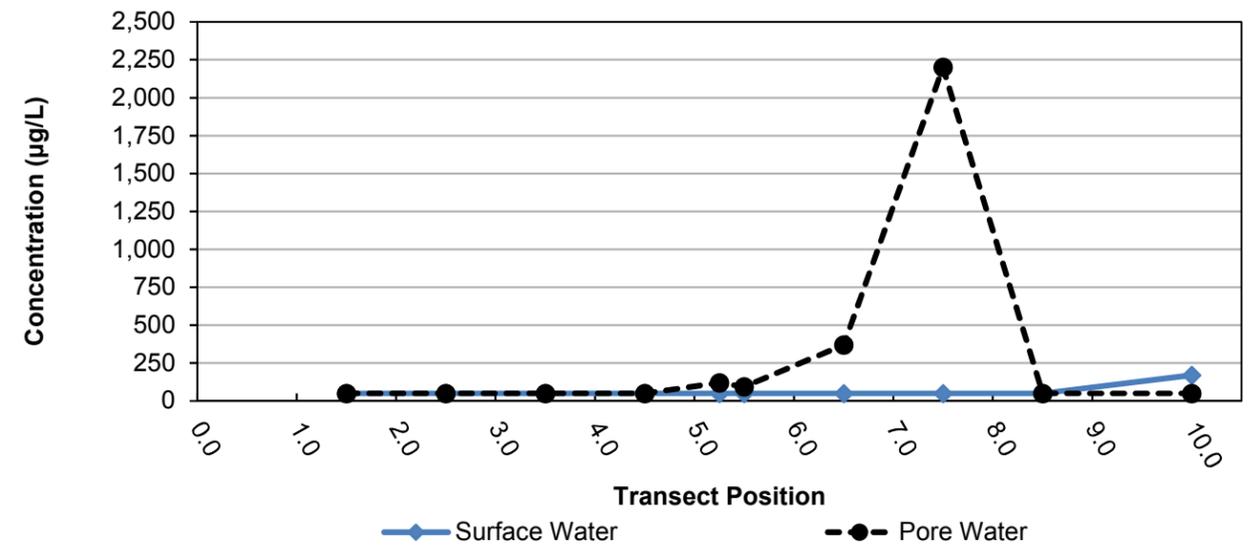


NOTES:
 mg/L - milligrams per liter
 µg/L - micrograms per liter

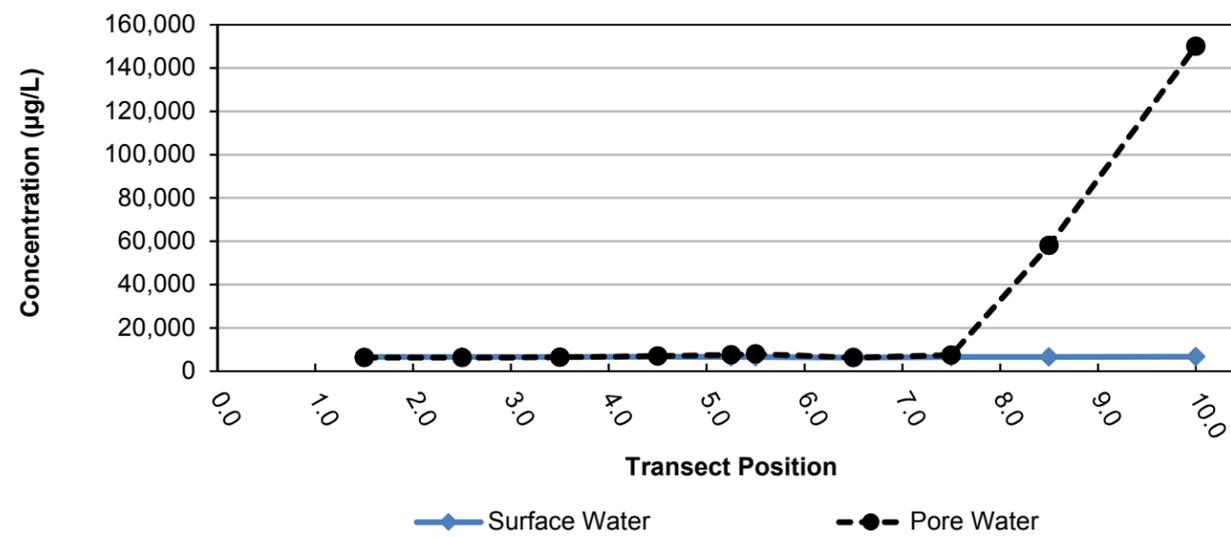
Copper Concentrations in Water



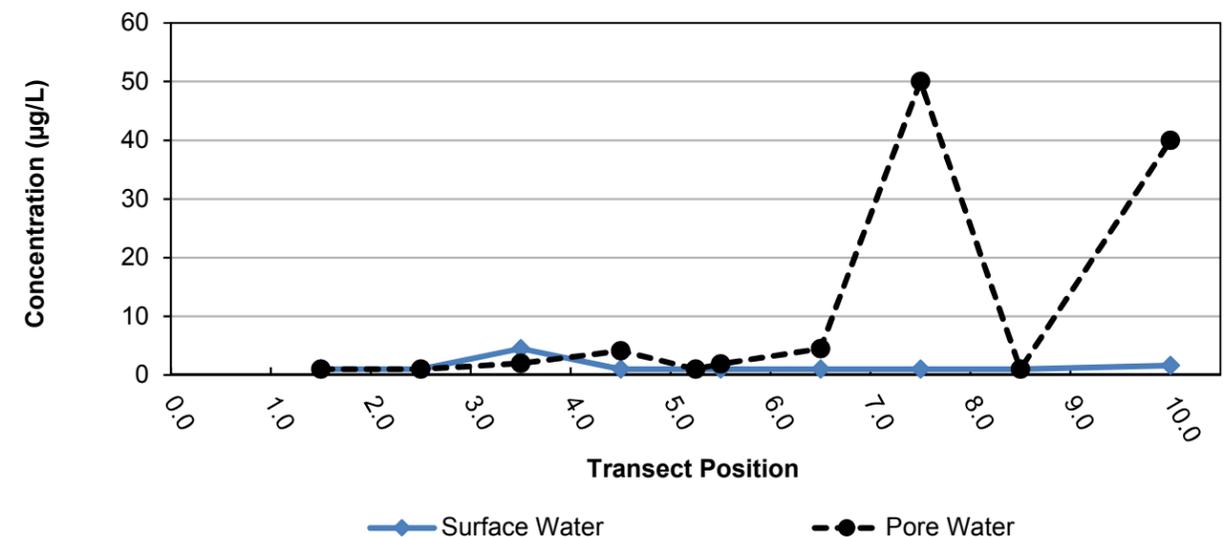
Iron Concentrations in Water



Magnesium Concentrations in Water

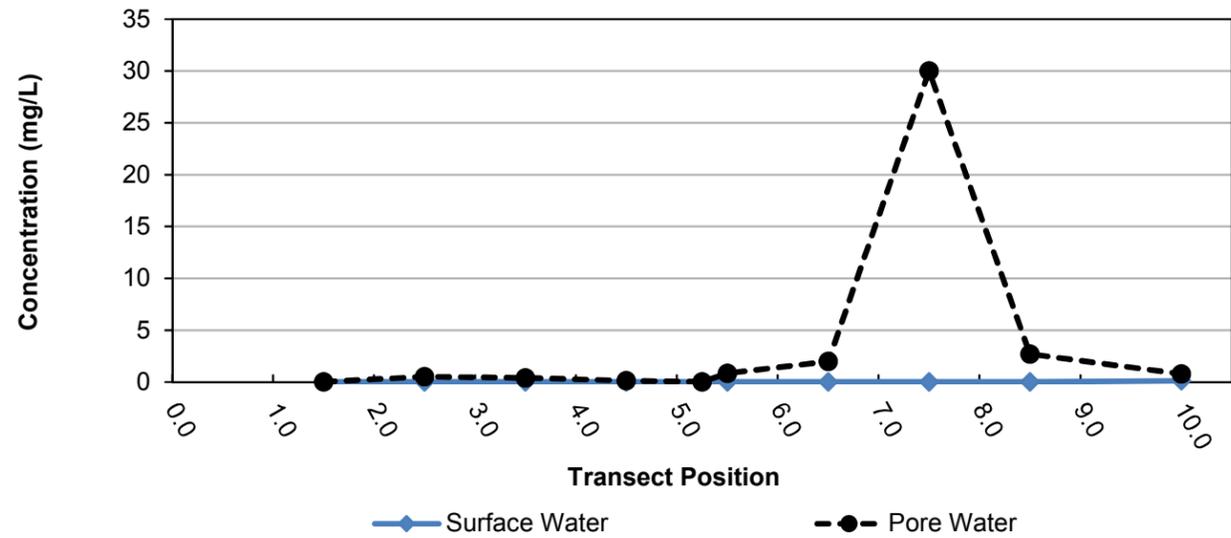


Manganese Concentrations in Water

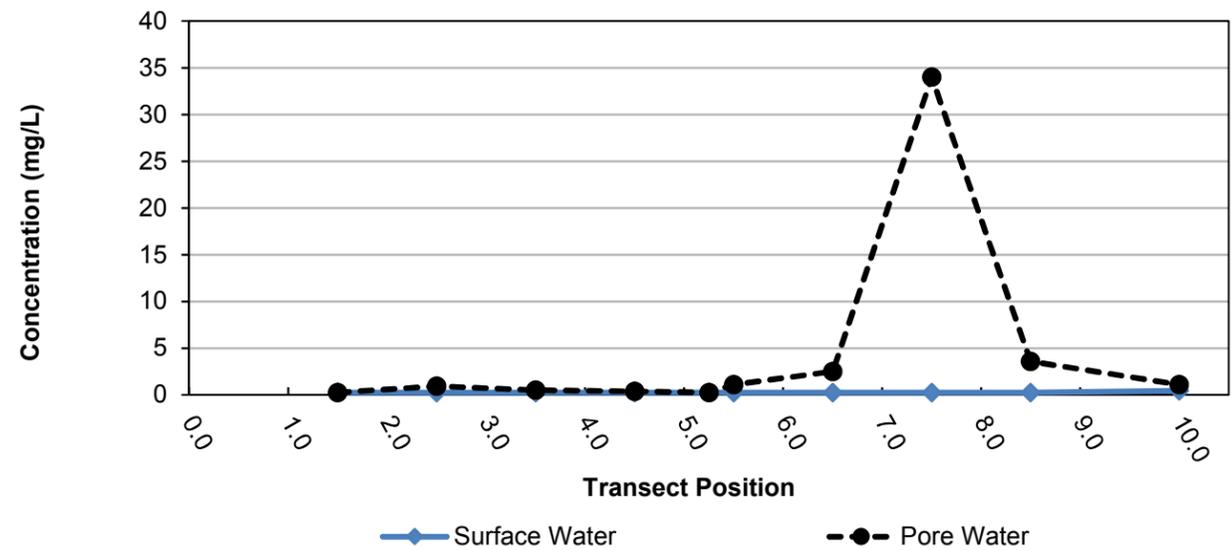


NOTES:
µg/L - micrograms per liter

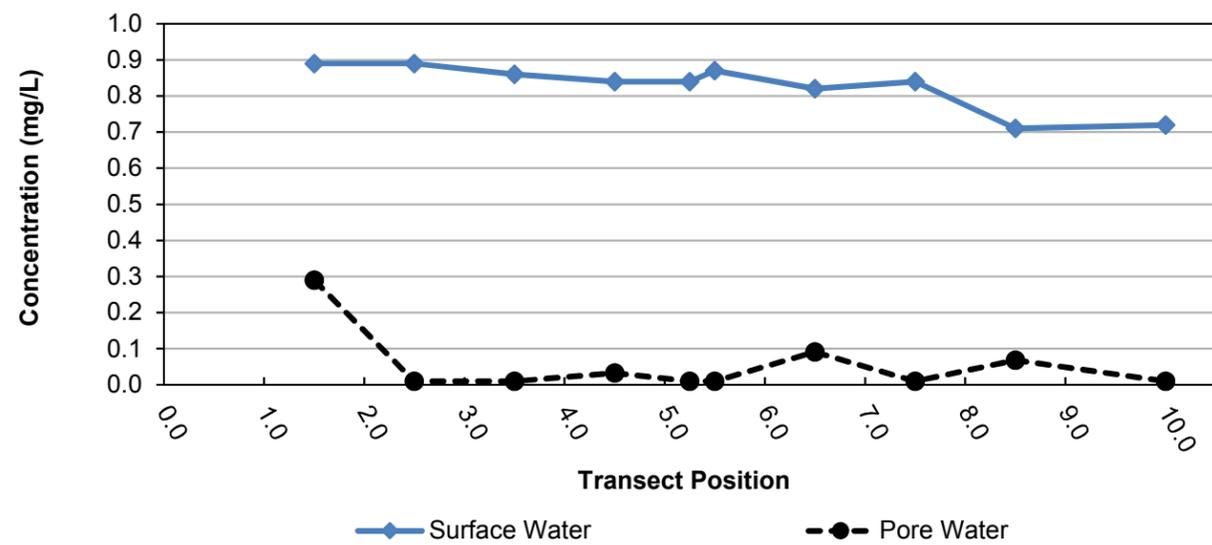
Ammonia (as N) Concentrations in Water



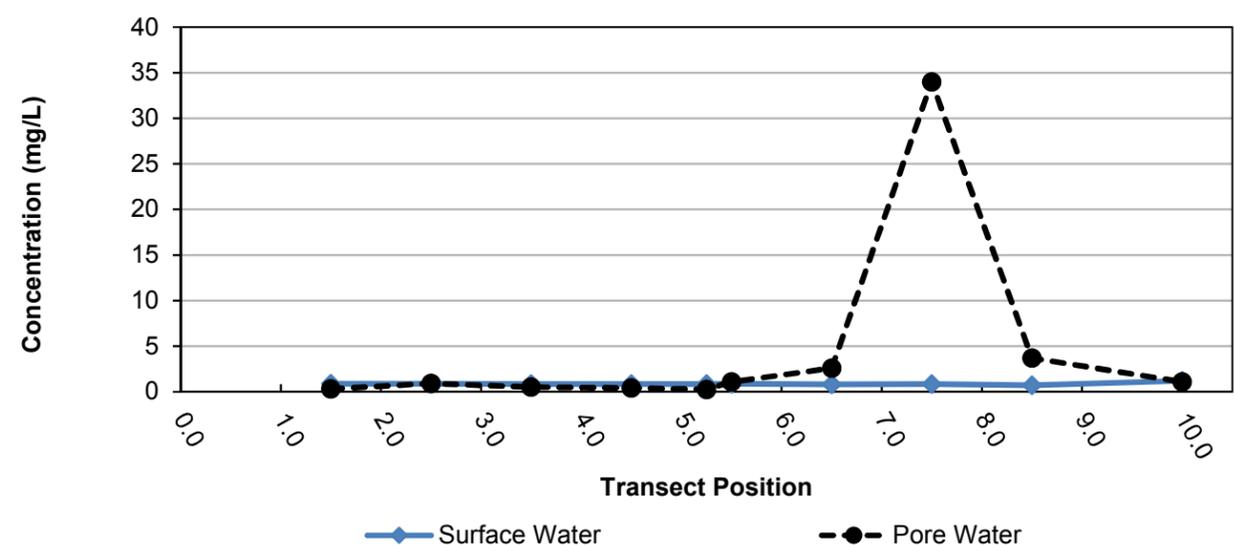
Total Kjeldahl Nitrogen Concentrations in Water



Nitrate as N Concentrations in Water

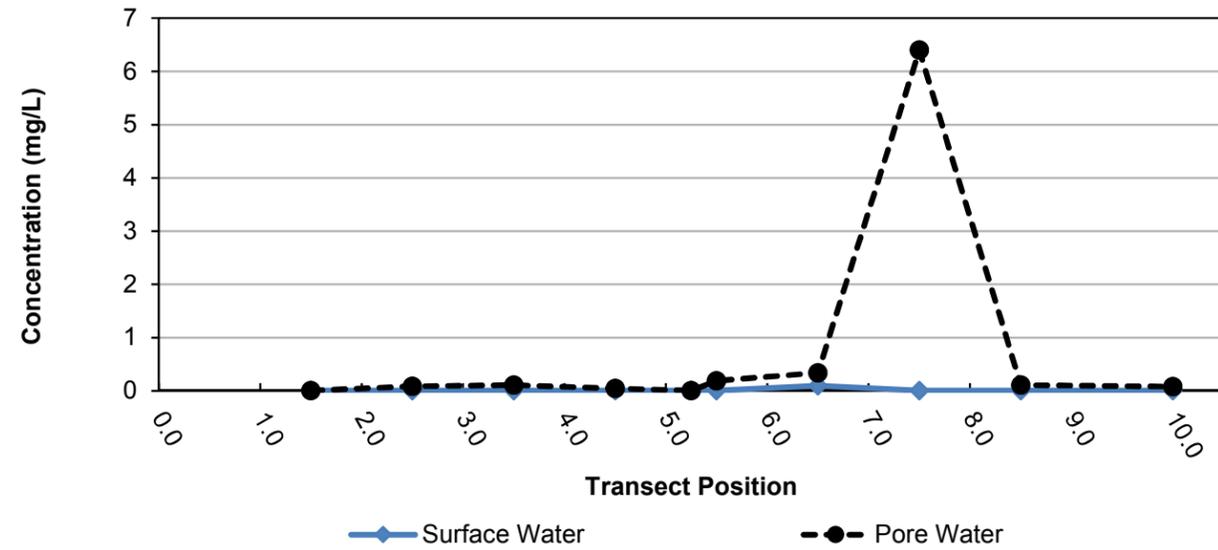


Total Nitrogen Concentrations in Water

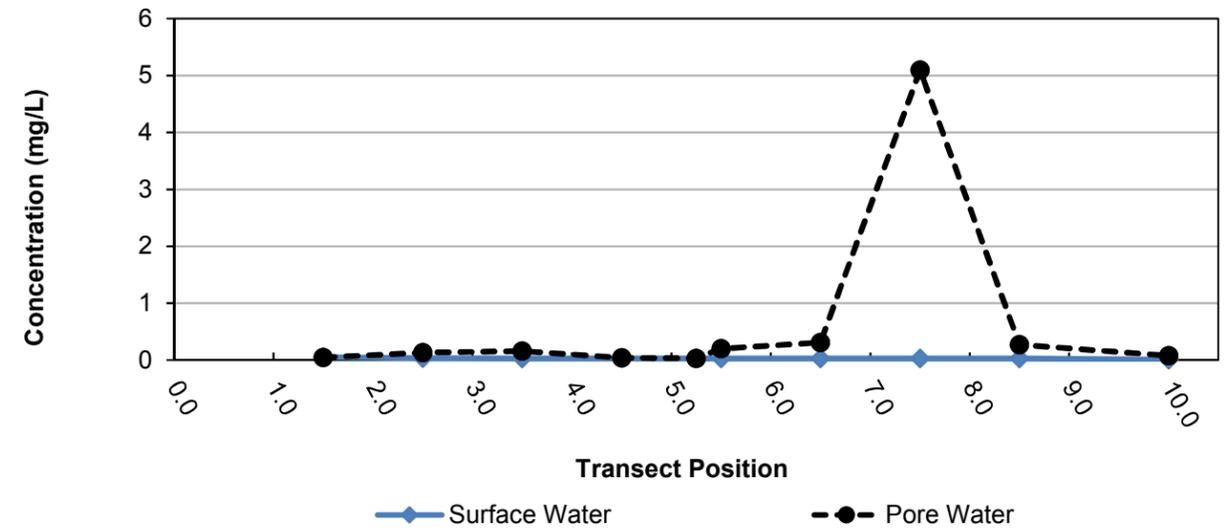


NOTES:
mg/L - milligrams per liter

Dissolved Orthophosphate Concentrations in Water



Total Phosphorus Concentrations in Water



NOTES:
mg/L - milligrams per liter

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT SEDIMENT ASSESSMENT REPORT	
COASTAL RIVERS: HOMOSASSA, CHASSAHOWITZKA, AND WEEKI WACHEE	
CONCENTRATIONS IN WATER Weeki Watchee River October 2015	
	GRAPH 6-10

APPENDICES



APPENDIX A

Field Logs



TRANSECT: WEEKI WACHEE 1.0

TRANSECT Lat 28.51921 Long -82.57445
 DATE 10-27-2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Low Relief, Wooded
 RIGHT BANK Low Relief, Boat Dock for
Weeki Wachee
 details for Y toxes

UTILITIES	
OUTFALLS	Y <input checked="" type="checkbox"/> N
	Y <input checked="" type="checkbox"/> N
Photo	

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	3.50	Water	3.00	Water	5.25	Water	5.25	Water	4.50
Flocculant	4.50	Flocculant	3.50	Flocculant	5.50	Flocculant	6.75	Flocculant	4.75
penetration	6.00	penetration	3.50	penetration	5.50	penetration	6.75	penetration	4.75
refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N
SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N
Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N
Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N
ft= below water surface		Lithology:	FINE SAND	Lithology:	FINE SAND	Lithology:	FINE SAND	Details for other:	
Stations 1 to 5		TAN FINE SAND		TAN FRAG. FRAG		TAN FRAG. FRAG			
from left to right		TRACE ORGANIC		SHELL FRAG. FRAG		SHELL FRAG. FRAG			
while facing upstream		Shell FRAG.		TRACE ORGANICS					
		Photo	yes	Photo	yes	Photo	yes	SAMPLE: WW1.0SED (date)	

2/250

TRANSECT: WEEKI WACHEE 1.5

TRANSECT Lat 28.51878 Long -82.5766

DATE 10-27-2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Low Relief, WOODED

RIGHT BANK Low Relief, WOODED

details for Y _____

OUTFALLS

Y N

Y N

Photo yes

UTILITIES

Y N

TRANSECT: WEEKI WACHEE 2.0

TRANSECT Lat 28.51872 Long -82.57933

DATE 10.27.2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Low Relief, Wooded

RIGHT BANK Low Relief, Wooded

details for Y

OUTFALLS

Y N

Y N

Photo Yes, Bank faces

RM

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	3.25	Water	7.25	Water	5.50	Water	2.50	Water	1.50
Flocculant	3.50	Flocculant	-	Flocculant	6.00	Flocculant	3.50	Flocculant	2.25
penetration	3.50	penetration	7.25	penetration	6.25	penetration	3.50	penetration	3.00
refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
SAV?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
ft= below water surface		Lithology:	TAN FINE SAND	Lithology:	TAN FINE SAND	Lithology:	BROWN FINE SAND	Details for other:	
Stations 1 to 5		Shell FRAG.	TRACE ORGANICS	Shell FRAG.	TRACE ORGANICS	Shell FRAG.	TRACE ORGANICS		
from left to right		Clay chunks present		Shell ? shell frag.					
while facing upstream		Photo	yes	Photo	yes	Photo	yes	SAMPLE: WW2.OSED (date)	

© 1115

TRANSECT: WEEKI WACHEE 3.0

TRANSECT Lat 28.52189 Long -82.58461

DATE 10-27-2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Low Relief, wooded

RIGHT BANK Low Relief, wooded

details for Y _____

OUTFALLS

Y N

Y N

Photo _____

UTILITIES

Y N

Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	4.00	Water	6.00	Water	6.25	Water	5.00	Water	1.50
Flocculant	4.00	Flocculant	6.25	Flocculant	6.50	Flocculant	5.25	Flocculant	2.25
penetration	4.00	penetration	6.25	penetration	6.50	penetration	8.50	penetration	2.25
refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
SAV?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
ft= below water surface Stations 1 to 5 from left to right		Lithology: TAN FINE SAND intergranular shell FRAG Present		Lithology: TAN FINE SAND w/ORGANICS shell FRAG Present		Lithology: TAN FINE SAND w/ORGANICS shell FRAG Present		Lithology: TAN FINE SAND w/ORGANICS shell FRAG Present	Details for other: Tree Roots Present
while facing upstream	Photo	yes	Photo	yes	Photo	yes	Photo	yes	SAMPLE: WW3.0SED (date)

0945

TRANSECT: WEEKI WACHEE 3.5

TRANSECT Lat 20.52308 Long -82.58723

DATE 10-26-2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Low Relief, wooded

RIGHT BANK Low Relief, wooded

details for Y

OUTFALLS

Y N

Y N

Photo

UTILITIES

Y N

Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	1.75	Water	3.75	Water	3.75	Water	5.00	Water	3.50
Flocculant	2.50	Flocculant	4.00	Flocculant	4.75	Flocculant	6.50	Flocculant	5.50
penetration	2.50	penetration	4.00	penetration	4.75	penetration	6.50	penetration	7.25
refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N
SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N
Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N
Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N
ft= below water surface		Lithology:	TAN FINE SAND	Lithology:	TAN FINE SAND	Lithology:	TAN FINE SAND	Details for other:	
Stations 1 to 5									
from left to right									
while facing upstream		Photo	yes	Photo	yes	Photo	yes	SAMPLE: WW3.5SED (date)	

1545

SURFACE WATER	
temp (C)	24.06
conductivity (uS/cm)	254
pH (SU)	8.02
DO (%)	52.2
ORP (mV)	136.7
turbidity (NTU)	0.13
TIME	1610
SAMPLE: WW3.5SW (date)	notes:

PORE WATER	
temp (C)	24.07
conductivity (uS/cm)	266
pH (SU)	7.67
DO (%)	17.3
ORP (mV)	mg/L 1.44
turbidity (NTU)	-105.7
TIME	1610
SAMPLE: WW3.5PW (date)	notes:

TRANSECT: WEEKI WACHEE 4.0

TRANSECT Lat 28.5201 Long 82.59

DATE 10.26.2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Low Relief, Wooded

RIGHT BANK Low Relief, Wooded

details for Y _____

OUTFALLS

Y N

Y N

Photo _____

UTILITIES

Y N

Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	1.00	Water	2.50	Water	5.00	Water	5.00	Water	4.00
Flocculant	1.50	Flocculant	3.25	Flocculant	5.50	Flocculant	5.25	Flocculant	--
penetration	8.75	penetration	8.50	penetration	5.50	penetration	5.25	penetration	4.00
refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N
SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N
Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N
Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N
ft= below water surface Stations 1 to 5 from left to right while facing upstream		Lithology: TAN FINE SAND TRACE ORGANICS		Lithology: TAN FINE SAND shell & FRAG		Lithology: TAN FINE SAND shell & FRAG		Details for other: Submerged tree roots @ 5	
		Photo	yes	Photo	yes	Photo	yes	SAMPLE: WW4.OSED (date)	@1500

TRANSECT: WEEKI WACHEE 4.5
 TRANSECT Lat 28.51848 Long -82.59303
 DATE 10-26-2015

BANK OBSERVATIONS (facing upstream)
 LEFT BANK Low Relief, Wooded
 RIGHT BANK Low Relief, Wooded
 details for Y _____
 Photo _____

OUTFALLS
 Y N
 Y N
 UTILITIES
 Y N
 Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	3.0	Water	5.50	Water	4.25	Water	4.00	Water	0.50
Flocculant	4.0	Flocculant	6.00	Flocculant	6.25	Flocculant	6.00	Flocculant	1.00
penetration	7.5	penetration	8.00	penetration	7.5	penetration	7.25	penetration	1.50
refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
SAV?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
ft= below water surface Stations 1 to 5 from left to right while facing upstream		Lithology: <u>TAN FINE SAND</u>		Lithology: <u>TAN FINE SAND</u> <u>TRACE ORGANICS</u> <u>shell Frag.</u>		Lithology: <u>TAN FINE SAND</u> <u>TRACE FLOCC</u> <u>TRACE ORGANICS</u> <u>shell Frag.</u>		Details for other:	
Photo	YES	Photo	YES	Photo	YES	Photo	yes	SAMPLE: WW4.5SED (date)	

1410

SURFACE WATER	
temp (C)	24.36
conductivity (uS/cm)	253
pH (SU)	8.01
DO (%)	67.3
ORP (mV)	85.4
turbidity (NTU)	0.15
TIME	1425
SAMPLE: WW4.5SW (date)	notes:

PORE WATER	
temp (C)	24.05
conductivity (uS/cm)	234
pH (SU)	7.57
DO (%)	14.2
ORP (mV)	-105.3
turbidity (NTU)	0.85
TIME	1425
SAMPLE: WW4.5PW (date)	notes:

TRANSECT: WEEKI WACHEE 5.0

TRANSECT Lat 28.51916 Long -82.59506

DATE 10-26-2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Low Relief, wooded

RIGHT BANK Low Relief, wooded

details for Y

Photo

OUTFALLS

Y N

Y N

Y (N)

Y (N)

UTILITIES

Y (N)

Y (N)

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	5.25	Water	7.75	Water	4.50	Water	3.25	Water	1.00
Flocculant	6.50	Flocculant	8.00	Flocculant	6.50	Flocculant	3.25	Flocculant	1.50
penetration	8.00	penetration	8.25	penetration	6.50	penetration	3.25	penetration	1.50
refusal?	<u>(Y)</u> N	refusal?	<u>(Y)</u> N	refusal?	<u>(Y)</u> N	refusal?	<u>(Y)</u> N	refusal?	<u>(Y)</u> N
SAV?	Y <u>(N)</u>	SAV?	Y <u>(N)</u>	SAV?	<u>(Y)</u> N	SAV?	<u>(Y)</u> N	SAV?	<u>(Y)</u> N
Algal Mat?	Y <u>(N)</u>	Algal Mat?	Y <u>(N)</u>	Algal Mat?	Y <u>(N)</u>	Algal Mat?	Y <u>(N)</u>	Algal Mat?	<u>(Y)</u> N
Other?	Y <u>(N)</u>	Other?	Y <u>(N)</u>	Other?	Y <u>(N)</u>	Other?	Y <u>(N)</u>	Other?	Y <u>(N)</u>
ft= below water surface		Lithology:		Lithology:		Lithology:		Details for other:	
Stations 1 to 5				TAN FINE SAND		TAN FINE SAND			
from left to right				shell & FRAG		Trace shell FRAG.			
while facing upstream		Photo	YES	Photo	YES	Photo	YES	SAMPLE: WW5.05ED (date)	

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TRANSECT: WEEKI WACHEE 5.25
 TRANSECT Lat 28.52403 Long -82.59653
 DATE 10-26-2015

BANK OBSERVATIONS (facing upstream)
 LEFT BANK Low Relief, WOODED
 RIGHT BANK High relief/bank, WOODED
 details for Y w/ House in Background
 UTILITIES
 Y N Y N Y (N) Y (N)
 Photo

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	1.25	Water	2.75	Water	4.25	Water	5.75	Water	6.00
Flocculant	1.50	Flocculant	3.00	Flocculant	5.50	Flocculant	9.25	Flocculant	6.50
penetration	1.50	penetration	3.00	penetration	5.75	penetration	9.50	penetration	6.50
refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N
SAV?	<input checked="" type="radio"/> N	SAV?	<input checked="" type="radio"/> N	SAV?	<input checked="" type="radio"/> N	SAV?	<input checked="" type="radio"/> N	SAV?	<input checked="" type="radio"/> N
Algal Mat?	<input checked="" type="radio"/> N	Algal Mat?	<input checked="" type="radio"/> N	Algal Mat?	<input checked="" type="radio"/> N	Algal Mat?	<input checked="" type="radio"/> N	Algal Mat?	<input checked="" type="radio"/> N
Other?	<input checked="" type="radio"/> N	Other?	<input checked="" type="radio"/> N	Other?	<input checked="" type="radio"/> N	Other?	<input checked="" type="radio"/> N	Other?	<input checked="" type="radio"/> N
ft= below water surface		Lithology:		Lithology:		Lithology:		Lithology:	
Stations 1 to 5		TAN FINE SAND		TAN FINE SAND		TAN FINE SAND		LIGHT ALGAE GROWING	
from left to right		SHELL & FRAG		SHELLS & FRAG		FLOCC IS PRESENT		ON OUTCROPS & ROCKS	
while facing upstream		PRESENT		PRESENT		PRESENT			
Photo	YES	Photo	YES	Photo	YES	Photo	YES	SAMPLE: WW5.25SED (date)	

Detritus

SURFACE WATER

temp (C)	24.16
conductivity (uS/cm)	255
pH (SU)	7.72
DO (%)	63.2
ORP (mV)	46.6
turbidity (NTU)	0.19
TIME	1150
SAMPLE: WW5.25SW (date)	notes:

PORE WATER

temp (C)	24.23
conductivity (uS/cm)	250
pH (SU)	7.60
DO (%)	22.7
ORP (mV)	mg/L 1.81
turbidity (NTU)	~56.9
TIME	0.19
SAMPLE: WW5.25PW (date)	notes:

TRANSECT: WEEKI WACHEE 9.5

TRANSECT Lat 28.53199 Long -82.61971

DATE 10.22.2015

BANK OBSERVATIONS (facing upstream)		OUTFALLS	UTILITIES
LEFT BANK	<u>Low Relief, Woods</u>	<input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> N
RIGHT BANK	<u>Low Relief, Woods</u>	<input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> N
details for Y _____		Photo	

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	<u>5.75</u>	Water	<u>5.75</u>	Water	<u>6.00</u>	Water	<u>5.00</u>	Water	<u>3.50</u>
Flocculant	<u>6.50</u>	Flocculant	<u>6.00</u>	Flocculant	<u>7.50</u>	Flocculant	<u>6.50</u>	Flocculant	<u>4.00</u>
penetration	<u>6.50</u>	penetration	<u>6.00</u>	penetration	<u>7.75</u>	penetration	<u>6.50</u>	penetration	<u>4.00</u>
refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N
SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N
Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N
Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N
ft= below water surface Stations 1 to 5 from left to right		Lithology: <u>Thin Fine SAND</u> <u>TRACE ORGANICS</u> <u>shell frags.</u>		Lithology: <u>TAN FINE SAND</u> <u>TRACE ORGANIC</u> <u>shell frags.</u>		Lithology: <u>Thin Fine SAND</u> <u>TRACE ORGANICS</u> <u>Trace shell frags.</u>		Details for other: SAMPLE: WW9.5SED (date)	
while facing upstream		Photo	<u>YES</u>	Photo	<u>YES</u>	Photo	<u>YES</u>		

STATIONS 2,3,4: LEKAN CORES HAD VERY LOW RECOVERY

SURFACE WATER	
temp (C)	
conductivity (us/cm)	
pH (SU)	
DO (%)	<u>mg/L</u>
ORP (mV)	
turbidity (NTU)	
TIME	
SAMPLE: WW9.5SW (date)	notes:

PORE WATER	
temp (C)	
conductivity (us/cm)	
pH (SU)	
DO (%)	<u>mg/L</u>
ORP (mV)	
turbidity (NTU)	
TIME	
SAMPLE: WW9.5PW (date)	notes:

poREWATER
Surface water
Take on
@ 7:10
transect

@ 1520

TRANSECT: WEEKI WACHEE 6.0

TRANSECT Lat 28.52859 Long -82.60032

DATE 10.23.2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK SEA WALL, HOUSE

RIGHT BANK Low Relief, WOODED

details for Y

Photo

OUTFALLS

Y N

Y N

Y N

UTILITIES

Y N

Y N

Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	3.50	Water	5.25	Water	5.75	Water	3.00	Water	2.50
Flocculant	4.75	Flocculant	5.50	Flocculant	6.50	Flocculant	3.50	Flocculant	2.75
penetration	5.50	penetration	6.25	penetration	6.50	penetration	3.50	penetration	3.00
refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N
SAV?	<input checked="" type="radio"/> N	SAV?	<input checked="" type="radio"/> N	SAV?	<input checked="" type="radio"/> N	SAV?	<input checked="" type="radio"/> N	SAV?	<input checked="" type="radio"/> N
Algal Mat?	<input checked="" type="radio"/> N	Algal Mat?	<input checked="" type="radio"/> N	Algal Mat?	<input checked="" type="radio"/> N	Algal Mat?	<input checked="" type="radio"/> N	Algal Mat?	<input checked="" type="radio"/> N
Other?	<input checked="" type="radio"/> N	Other?	<input checked="" type="radio"/> N	Other?	<input checked="" type="radio"/> N	Other?	<input checked="" type="radio"/> N	Other?	<input checked="" type="radio"/> N
ft= below water surface		Lithology: TAN FINE SAND							
Stations 1 to 5		SWELL FRAG		SHELL FRAG.		TRACE ORGANICS		SHELL FRAG.	
from left to right		Photo		Photo		Photo		Photo	
while facing upstream		yes		yes		yes		yes	
									SAMPLE: WW6.0SED (date)

© 1355

TRANSECT: WEEKI WACHEE 6.5

TRANSECT Lat 28.52897 Long -82.6035

DATE 10.23.2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Low Relief, Wooded

RIGHT BANK Low Relief, Wooded

details for Y

OUTFALLS

Y N

Y N

Y (N)

Y (N)

Photo

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	4.00	Water	4.25	Water	4.50	Water	2.50	Water	2.00
Flocculant	4.25	Flocculant	5.00	Flocculant	4.75	Flocculant	3.25	Flocculant	3.50
penetration	4.25	penetration	5.00	penetration	4.75	penetration	3.50	penetration	5.00
refusal?	<u>(Y)</u> N	refusal?	<u>(Y)</u> N	refusal?	<u>(Y)</u> N	refusal?	<u>(Y)</u> N	refusal?	<u>(Y)</u> N
SAV?	<u>(Y)</u> N	SAV?	<u>(Y)</u> N	SAV?	<u>(Y)</u> N	SAV?	<u>(Y)</u> N	SAV?	<u>(Y)</u> N
Algal Mat?	<u>(Y)</u> N	Algal Mat?	<u>(Y)</u> N	Algal Mat?	<u>(Y)</u> N	Algal Mat?	<u>(Y)</u> N	Algal Mat?	<u>(Y)</u> N
Other?	<u>(Y)</u> N	Other?	<u>(Y)</u> N	Other?	<u>(Y)</u> N	Other?	<u>(Y)</u> N	Other?	<u>(Y)</u> N
ft= below water surface		Lithology: TAN FINE SANDS		Lithology: TAN FINE SANDS		Lithology: LITE GRAY FINE SAND		Details for other:	
Stations 1 to 5		TRACE ORGANICS		TRACE ORGANICS		WY FLOCC			
from left to right				Shell FRAG.		TRACE ORGANICS			
while facing upstream		Photo	yes	Photo	yes	Photo	yes	SAMPLE: WW6.5SED (date)	

© 1210

SURFACE WATER	
temp (C)	24.29
conductivity (uS/cm)	264
pH (SU)	7.81
DO (%)	71.8
ORP (mV)	112.6
turbidity (NTU)	0.19
TIME	1225
SAMPLE: WW6.5SW (date)	notes:

PORE WATER	
temp (C)	24.07
conductivity (uS/cm)	328
pH (SU)	7.14
DO (%)	12.9
ORP (mV)	mg/L 1.10
turbidity (NTU)	-122.1
TIME	0.38
SAMPLE: WW6.5PW (date)	1225
	notes:

TRANSECT: WEEKI WACHEE 7.0

TRANSECT Lat 28.53161 Long -82.60604

DATE 10.23.2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Low Relief, Wooded

RIGHT BANK Low Relief, Wooded

details for Y _____

OUTFALLS

Y N

Y N

Photo _____

UTILITIES

Y N

Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	2.50	Water	3.00	Water	4.50	Water	4.50	Water	3.50
Flocculant	3.00	Flocculant	3.50	Flocculant	5.00	Flocculant	7.00	Flocculant	4.50
penetration	3.00	penetration	3.75	penetration	7.75	penetration	7.50	penetration	4.50
refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N
SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N
Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N
Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N
ft= below water surface Stations 1 to 5 from left to right while facing upstream		Lithology: TAN FINE SAND w/ FLOCC TRACE ORGANICS TRACE SHELL FRAG		Lithology: TAN FINE SAND TRACE SHELL FRAG.		Lithology: TAN FINE SAND TRACE ORGANIC SHELL FRAG.		Details for other: Detritus e STATION 1	
Photo	yes	Photo	yes	Photo	yes	Photo	yes	SAMPLE: WW7.0SED (date)	

© 1115

TRANSECT: WEEKI WACHEE 7.5

TRANSECT Lat 28.52852 Long -82.60711

DATE 10-23-2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Low Relief, Wooded

RIGHT BANK Low Relief, Wooded

details for Y

OUTFALLS

Y N

Y N

Photo

UTILITIES

Y N

Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	3.50	Water	5.00	Water	4.50	Water	3.75	Water	2.75
Flocculant	4.00	Flocculant	6.00	Flocculant	5.00	Flocculant	4.25	Flocculant	2.75
penetration	5.25	penetration	6.50	penetration	5.50	penetration	5.00	penetration	2.75
refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
SAV?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
ft= below water surface Stations 1 to 5 from left to right while facing upstream		Lithology: TAN FINE SAND		Lithology: TAN FINE SAND SHELL FRAG.		Lithology: TAN FINE SAND SHELL FRAG.		Details for other: DETRITUS STATION 1	
		Photo	yes	Photo	yes	Photo	yes	SAMPLE: WW7.5SED (date)	

1005

SURFACE WATER	
temp (C)	23.29
conductivity (uS/cm)	264
pH (SU)	6.88
DO (%)	66.4
ORP (mV)	130.0
turbidity (NTU)	0.04
TIME	1030
SAMPLE: WW7.5SW (date)	notes:

PORE WATER	
temp (C)	23.38
conductivity (uS/cm)	667
pH (SU)	6.55
DO (%)	19.4
ORP (mV)	-114.9
turbidity (NTU)	0.20
TIME	1030
SAMPLE: WW7.5PW (date)	notes:

TRANSECT: WEEKI WACHEE8.0

TRANSECT Lat 28.52829 Long -82.61144

DATE 10.23.2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Low Relief, Wooded

RIGHT BANK Low Relief, Wooded

details for Y

OUTFALLS

Y N

Y N

Photo yes

UTILITIES

Y N

Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	4.00	Water	5.00	Water	6.50	Water	4.00	Water	3.00
Flocculant	4.00	Flocculant	5.25	Flocculant	7.25	Flocculant	4.00	Flocculant	3.50
penetration	4.00	penetration	5.25	penetration	7.50	penetration	4.00	penetration	3.50
refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N
SAV?	Y <input checked="" type="radio"/> N	SAV?	Y <input checked="" type="radio"/> N	SAV?	Y <input checked="" type="radio"/> N	SAV?	Y <input checked="" type="radio"/> N	SAV?	Y <input checked="" type="radio"/> N
Algal Mat?	Y <input checked="" type="radio"/> N	Algal Mat?	Y <input checked="" type="radio"/> N	Algal Mat?	Y <input checked="" type="radio"/> N	Algal Mat?	Y <input checked="" type="radio"/> N	Algal Mat?	Y <input checked="" type="radio"/> N
Other?	<input checked="" type="radio"/> N	Other?	<input checked="" type="radio"/> N	Other?	Y <input checked="" type="radio"/> N	Other?	Y <input checked="" type="radio"/> N	Other?	Y <input checked="" type="radio"/> N
ft= below water surface Stations 1 to 5 from left to right while facing upstream		Lithology: <u>TAN FINE SAND</u>		Lithology: <u>TAN FINE SAND ORGANICS w/ shell FRAG.</u>		Lithology: <u>TAN FINE SAND SMALL amount of Floc trace shell FRAG.</u>		Details for other: <u>DOWN TROGS & DETRITUS IN WATER</u>	
Photo	YES	Photo	YES	Photo	YES	Photo	YES	SAMPLE: WW8.0SED (date)	

0930

↓ DOWN TREE/LOGS
only were
NO Detritus

TRANSECT: WEEKI WACHEE 8.5
 TRANSECT Lat 28.5285 Long -82.61413
 DATE 10.22.2015

BANK OBSERVATIONS (facing upstream)
 LEFT BANK SEA WALL, HOUSE
 RIGHT BANK LOW Relief, WOODED
 details for Y _____
 Photo _____

OUTFALLS
 Y N
 Y (N)
 Y (N)

UTILITIES
 Y N
 Y (N)
 Y (N)

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	1.00	Water	2.00	Water	2.50	Water	4.00	Water	6.50
Flocculant	1.75	Flocculant	2.00	Flocculant	2.75	Flocculant	4.25	Flocculant	7.50
penetration	6.00	penetration	2.00	penetration	2.75	penetration	4.25	penetration	8.50
refusal?	<u>(Y)</u> N	refusal?	<u>(Y)</u> N	refusal?	<u>(Y)</u> N	refusal?	<u>(Y)</u> N	refusal?	<u>(Y)</u> N
SAV?	<u>(Y)</u> N	SAV?	Y <u>(N)</u>	SAV?	Y <u>(N)</u>	SAV?	Y <u>(N)</u>	SAV?	Y <u>(N)</u>
Algal Mat?	Y <u>(N)</u>	Algal Mat?	Y <u>(N)</u>	Algal Mat?	Y <u>(N)</u>	Algal Mat?	Y <u>(N)</u>	Algal Mat?	Y <u>(N)</u>
Other?	Y <u>(N)</u>	Other?	Y <u>(N)</u>	Other?	Y <u>(N)</u>	Other?	Y <u>(N)</u>	Other?	Y <u>(N)</u>
ft= below water surface Stations 1 to 5 from left to right		Lithology: TAW. FINE SAND		Lithology: TAW FINE SAND shell FRAG.		Lithology: TAW FINE SAND shell FRAG.		Lithology: TAW FINE SAND shell FRAG.	
while facing upstream		Photo	yes	Photo	yes	Photo	yes	Photo	yes
		SAMPLE: WW8.5SW (date)		SAMPLE: WW8.5SW (date)		SAMPLE: WW8.5PW (date)		SAMPLE: WW8.5SED (date)	

@ 1635

SURFACE WATER	
temp (C)	24.74
conductivity (uS/cm)	301
pH (SU)	7.97
DO (%)	85.0
ORP (mV)	70.6
turbidity (NTU)	0.62
TIME	1705
SAMPLE: WW8.5SW (date) notes:	

PORE WATER	
temp (C)	24.30
conductivity (uS/cm)	3089
pH (SU)	7.20
DO (%)	11.7
ORP (mV)	mg/L 0.97
turbidity (NTU)	-318.8
TIME	2.64
TIME	1705
SAMPLE: WW8.5PW (date) notes:	

TRANSECT: WEEKI WACHEE9.0

TRANSECT Lat 28.53158 Long -82.61687
 DATE 10-22-2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Sea Wall, House
 RIGHT BANK Low relief, wooded
 details for Y _____

OUTFALLS

Y N
 Y N

UTILITIES

Y N
 Y N

Photo _____

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)		
Water	8.50	Water	6.00	Water	5.00	Water	4.50	Water	2.00		
Flocculant	9.50	Flocculant	6.25	Flocculant	6.50	Flocculant	5.25	Flocculant	2.50		
penetration	9.75	penetration	6.50	penetration	8.00	penetration	5.50	penetration	3.50		
refusal?	Y N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N		
SAV?	Y N	SAV?	Y <input checked="" type="checkbox"/> N	SAV?	Y <input checked="" type="checkbox"/> N	SAV?	Y <input checked="" type="checkbox"/> N	SAV?	Y <input checked="" type="checkbox"/> N		
Algal Mat?	Y N	Algal Mat?	Y <input checked="" type="checkbox"/> N	Algal Mat?	Y <input checked="" type="checkbox"/> N	Algal Mat?	Y <input checked="" type="checkbox"/> N	Algal Mat?	Y <input checked="" type="checkbox"/> N		
Other?	Y N	Other?	Y <input checked="" type="checkbox"/> N	Other?	Y <input checked="" type="checkbox"/> N	Other?	Y <input checked="" type="checkbox"/> N	Other?	Y <input checked="" type="checkbox"/> N		
ft= below water surface Stations 1 to 5 from left to right while facing upstream		Lithology: TAN FINE SAND ORGANICS - wood debris SHELL FRAG.	Photo	yes	Lithology: TAN FINE SAND TRACE ORGANICS SHELL FRAG.	Photo	yes	Lithology: TAN FINE SAND TRACE ORGANICS SHELL FRAG.	Photo	yes	SAMPLE: WW9.0SED (date)

© 1550

TRANSECT: WEEKI WACHEE 9.5

TRANSECT Lat 28.53199 Long -82.61971

DATE 10.22-2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Low Relief, WOODS

RIGHT BANK Low Relief, WOODS

details for Y

OUTFALLS

N

Y

Photo

UTILITIES

N

Y

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	<u>5.75</u>	Water	<u>5.75</u>	Water	<u>6.00</u>	Water	<u>5.00</u>	Water	<u>3.50</u>
Flocculant	<u>6.50</u>	Flocculant	<u>6.00</u>	Flocculant	<u>7.50</u>	Flocculant	<u>6.50</u>	Flocculant	<u>4.00</u>
penetration	<u>6.50</u>	penetration	<u>6.00</u>	penetration	<u>7.75</u>	penetration	<u>6.50</u>	penetration	<u>4.00</u>
refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N
SAV?	<input checked="" type="checkbox"/> Y	SAV?	<input checked="" type="checkbox"/> Y	SAV?	<input checked="" type="checkbox"/> Y	SAV?	<input checked="" type="checkbox"/> Y	SAV?	<input checked="" type="checkbox"/> Y
Algal Mat?	<input checked="" type="checkbox"/> Y	Algal Mat?	<input checked="" type="checkbox"/> Y	Algal Mat?	<input checked="" type="checkbox"/> Y	Algal Mat?	<input checked="" type="checkbox"/> Y	Algal Mat?	<input checked="" type="checkbox"/> Y
Other?	<input checked="" type="checkbox"/> Y	Other?	<input checked="" type="checkbox"/> Y	Other?	<input checked="" type="checkbox"/> Y	Other?	<input checked="" type="checkbox"/> Y	Other?	<input checked="" type="checkbox"/> Y
ft= below water surface Stations 1 to 5 from left to right		Lithology: <u>TAU FINE SAND</u> <u>TRACE ORGANICS</u> <u>SHELL FRAG.</u>		Lithology: <u>TAU FINE SAND</u> <u>TRACE FLOCC</u> <u>TRACE ORGANIC</u> <u>SHELL FRAG.</u>		Lithology: <u>TAU FINE SAND</u> <u>TRACE ORGANICS</u> <u>TRACE SHELL FRAG.</u>		Details for other:	
while facing upstream		Photo	<u>YES</u>	Photo	<u>YES</u>	Photo	<u>YES</u>	SAMPLE: WW9.5SED (date)	<u>@ 1520</u>

STATIONS 2,3,4: LEXAN CORES HAD VERY LOW RECOVERY

SAMPLE: WW9.5SW (date)	notes:
temp (C)	
conductivity (uS/cm)	
pH (SU)	
DO (%)	
ORP (mV)	
turbidity (NTU)	
TIME	

SAMPLE: WW9.5PW (date)	notes:
temp (C)	
conductivity (uS/cm)	
pH (SU)	
DO (%)	
ORP (mV)	
turbidity (NTU)	
TIME	

Surface water
pore water
Surface water
Taken @ #10
Hansen

TRANSECT: Weeki Wachee 10.0
 TRANSECT Lat 28.53093 Long 82.62192
 DATE 8-13-2015

BANK OBSERVATIONS (facing upstream)
 LEFT BANK SEAWALL, HOUSE
 RIGHT BANK Low Relief, WOODED
 details for Y _____
 Photo 1/15/10

OUTFALLS
 Y N
 Y N
 UTILITIES
 Y N
 Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	6.0	Water	6.0	Water	4.0	Water	3.5	Water	3.25
Flocculant	6.25	Flocculant	6.0	Flocculant	7.0	Flocculant	6.5	Flocculant	4.25
penetration	6.5	penetration	6.25	penetration	7.0	penetration	7.5	penetration	4.25
refusal?	<input checked="" type="checkbox"/> N	refusal?	Y N	refusal?	Y N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N
SAV?	<input checked="" type="checkbox"/> N	SAV?	Y N	SAV?	Y N	SAV?	Y <input checked="" type="checkbox"/> N	SAV?	Y <input checked="" type="checkbox"/> N
Algal Mat?	Y <input checked="" type="checkbox"/> N	Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	Y <input checked="" type="checkbox"/> N	Algal Mat?	Y <input checked="" type="checkbox"/> N
Other?	Y <input checked="" type="checkbox"/> N	Other?	Y N	Other?	Y N	Other?	Y <input checked="" type="checkbox"/> N	Other?	Y <input checked="" type="checkbox"/> N
ft= below water surface Stations 1 to 5 from left to right while facing upstream		Lithology: TAN FINE SAND TRACE ORGANICS TRACE FLOC		Lithology: TAN FINE SAND TRACE ORGANICS TRACE FLOC		Lithology: TAN FINE SAND TRACE ORGANICS TRACE FLOC		Lithology: TAN FINE SAND TRACE ORGANICS TRACE FLOC	
Photo		Photo		Photo		Photo		Photo	
SAMPLE:		yes		yes		yes		SAMPLE:	

89:55

SURFACE WATER

temp (C)	24.92
conductivity (uS/cm)	420
pH (SU)	7.90
DO (%)	87.0 mg/L 7.10
ORP (mV)	73.0
turbidity (NTU)	0.91
TIME	11 COC
SAMPLE: <u>NW10.0 SW</u>	notes:

PORE WATER

temp (C)	24.60
conductivity (uS/cm)	3120
pH (SU)	7.31
DO (%)	11.7 mg/L 0.97
ORP (mV)	-321.0
turbidity (NTU)	6.25
TIME	11 COC
SAMPLE: <u>NW10.0 PW</u>	notes:

TRANSECT: CHASSAHOWITZKA 0.5

TRANSECT Lat 28.71561 Long -82.57754

DATE 10-14-2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Low Relief, WOODED

RIGHT BANK Low Relief, WOODED

details for Y

OUTFALLS

Y N

Y N

Photo

UTILITIES

Y N

Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	3.5	Water	4.75	Water	4.0	Water	4.25	Water	3.00
Flocculant	3.75	Flocculant	5.0	Flocculant	5.0	Flocculant	4.75	Flocculant	3.75
penetration	4.0	penetration	6.0	penetration	5.25	penetration	5.50	penetration	4.00
refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N
SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N
Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N
Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N
ft= below water surface		Lithology:		Lithology:		Lithology:		Lithology:	
Stations 1 to 5		Flocc Present		Flocc. Present		Flocc. Present		Flocc. Present	
from left to right		Trace organics present							
while facing upstream		Photo	YES	Photo	YES	Photo	YES	Photo	YES
		notes:		notes:		notes:		notes:	

Time: 1000

Stations 2,3,4: Layan Codes HAD low recovery

SURFACE WATER	
temp (C)	24.03
conductivity (uS/cm)	1048
pH (SU)	7.56
DO (%)	61.6
ORP (mV)	245.5
turbidity (NTU)	0.23
TIME	1015
SAMPLE: CZO.5SW (date)	notes:

10/14/2015

PORE WATER	
temp (C)	23.98
conductivity (uS/cm)	4000
pH (SU)	7.21
DO (%)	34.8
ORP (mV)	230.6
turbidity (NTU)	2.67
TIME	1015
SAMPLE: CZO.5PW (date)	notes:

10/14/2015

TRANSECT: CHASSAHOWITZKA 1.0

TRANSECT Lat 28.71629 Long -82.57819

DATE 10-14-2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Low Relief, wooded

RIGHT BANK Low Relief, wooded

details for Y _____

OUTFALLS

Y N

Y N

Photo _____

UTILITIES

Y N

Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	<u>2.50</u>	Water	<u>3.25</u>	Water	<u>3.5</u>	Water	<u>3.75</u>	Water	<u>3.50</u>
Flocculant	<u>3.00</u>	Flocculant	<u>3.50</u>	Flocculant	<u>3.75</u>	Flocculant	<u>4.25</u>	Flocculant	<u>4.00</u>
penetration	<u>3.25</u>	penetration	<u>3.50</u>	penetration	<u>4.00</u>	penetration	<u>4.75</u>	penetration	<u>4.25</u>
refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N
SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N
Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N
Other?	Y N	Other?	Y N	Other?	Y N	Other?	Y N	Other?	Y N
ft= below water surface		Lithology:	<u>Light Brown Fine sand</u>	Lithology:	<u>Light Brown Fine sand, NO ORGANICS</u>	Lithology:	<u>FLOCC PRESENT</u>	Details for other:	
Stations 1 to 5			<u>ORGANICS Present</u>		<u>NO FLOCC.</u>		<u>DARK BROWN FINE SAND TRACE ORG.</u>		
from left to right		Photo	<u>yes</u>	Photo	<u>yes</u>	Photo	<u>yes</u>	SAMPLE: CZ1.05ED (date)	
while facing upstream									

TIME: 11:51

TRANSECT: CHASSAHOWITZKA 1.5
 TRANSECT Lat 28.71634 Long -82.57917
 DATE 10-14-2015

BANK OBSERVATIONS (facing upstream)
 LEFT BANK Low Reliefs, wooded
 RIGHT BANK Low Relief, wooded
 details for Y Photo

OUTFALLS
 Y N
 Y (N)
 Y (N)

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	<u>2.0</u>	Water	<u>2.75</u>	Water	<u>3.5</u>	Water	<u>3.25</u>	Water	<u>2.0</u>
Flocculant		Flocculant	<u>4.00</u>	Flocculant	<u>5.0</u>	Flocculant	<u>4.50</u>	Flocculant	<u>2.5</u>
penetration	<u>2.0</u>	penetration	<u>4.25</u>	penetration	<u>5.0</u>	penetration	<u>4.50</u>	penetration	<u>2.5</u>
refusal?	<u>(Y) N</u>	refusal?	<u>(Y) N</u>	refusal?	<u>(Y) N</u>	refusal?	<u>(Y) N</u>	refusal?	<u>(Y) N</u>
SAV?	<u>(Y) N</u>	SAV?	<u>(Y) N</u>	SAV?	<u>(Y) N</u>	SAV?	<u>(Y) N</u>	SAV?	<u>(Y) N</u>
Algal Mat?	<u>(Y) N</u>	Algal Mat?	<u>(Y) N</u>	Algal Mat?	<u>(Y) N</u>	Algal Mat?	<u>(Y) N</u>	Algal Mat?	<u>(Y) N</u>
Other?	<u>Y N</u>	Other?	<u>Y N</u>	Other?	<u>Y N</u>	Other?	<u>Y N</u>	Other?	<u>Y N</u>
ft= below water surface		Lithology:		Lithology:		Lithology:		Lithology:	
Stations 1 to 5		<u>DARK GREY FINE SAND</u>		<u>LIGHT BROWN FINE SAND</u>		<u>TRACE FLOCC.</u>		<u>LIGHT GREY FINE SAND</u>	
from left to right		<u>ORGANICS PRESENT</u>		<u>TRACE ORGANICS</u>		<u>ORGANICS PRESENT</u>		<u>ORGANICS PRESENT</u>	
while facing upstream		Photo	<u>yes</u>	Photo	<u>yes</u>	Photo	<u>yes</u>	Photo	<u>yes</u>
									SAMPLE: CZ1.5SED (date)

TIME!
1201

SURFACE WATER	
temp (C)	<u>24.90</u>
conductivity (uS/cm)	<u>2431</u>
pH (SU)	<u>7.73</u>
DO (%)	<u>81.5</u>
ORP (mV)	<u>mg/L 6.68</u>
turbidity (NTU)	<u>197.7 197.7</u>
TIME	<u>0.80</u>
SAMPLE: CZ1.5SW (date)	notes:

PORE WATER	
temp (C)	<u>24.76</u>
conductivity (uS/cm)	<u>2196</u>
pH (SU)	<u>7.55</u>
DO (%)	<u>mg/L 5.07</u>
ORP (mV)	<u>214.8</u>
turbidity (NTU)	<u>5.21</u>
TIME	<u>1240</u>
SAMPLE: CZ1.5PW (date)	notes:

TRANSECT: CHASSAHOWITZKA 2.0

TRANSECT Lat 28.71648 Long -82.58079

DATE 10-14-2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Low Relief, Wooded

RIGHT BANK Low Relief, Wooded

details for Y _____

OUTFALLS

Y N

Y N

Photo

UTILITIES

Y N

Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	3.0	Water	3.5	Water	4.50	Water	3.75	Water	2.75
Flocculant	5.0	Flocculant	3.75	Flocculant	7.00	Flocculant	6.25	Flocculant	8.75
penetration	5.0	penetration	3.75	penetration	7.00	penetration	5.25	penetration	4.50
refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N
SAV?	Y N	SAV?	Y <input checked="" type="checkbox"/> N	SAV?	Y <input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N
Algal Mat?	Y N	Algal Mat?	Y <input checked="" type="checkbox"/> N	Algal Mat?	Y <input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N
Other?	<input checked="" type="checkbox"/> N	Other?	Y N	Other?	Y <input checked="" type="checkbox"/> N	Other?	Y <input checked="" type="checkbox"/> N	Other?	Y <input checked="" type="checkbox"/> N
ft= below water surface		Lithology:	GREY/BROWN FINE SAND w/ ORGANICS	Lithology:	2 layers: DARK GREY FINE SANDS w/ ORGANICS	Lithology:	FLOCC. Present DARK GREY FINE SANDS w/ ORGANICS	Details for other:	
Stations 1 to 5 from left to right		Photo	yes	Photo	yes	Photo	yes	Photo	yes
while facing upstream		Photo	yes	Photo	yes	Photo	yes	SAMPLE: CZ2.05ED (date)	

Time: 1350

OTHER: Zero Visibility

TRANSECT: CHASSAHOWITZKA 2.5

TRANSECT Lat 28.71675 Long -82.58199

DATE 10.14.2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Low Relief, WOODED

RIGHT BANK Low Relief, WOODED

details for Y

OUTFALLS

Y N

Y N

Photo

UTILITIES

Y N

Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	3.25	Water	3.5	Water	3.0	Water	4.0	Water	3.0
Flocculant	3.75	Flocculant	4.0	Flocculant	3.5	Flocculant	4.5	Flocculant	4.0
penetration	3.75	penetration	4.5	penetration	3.72	penetration	4.5	penetration	4.0
refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N
SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	Y <input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	Y <input checked="" type="checkbox"/> N
Algal Mat?	Y <input checked="" type="checkbox"/> N	Algal Mat?	Y <input checked="" type="checkbox"/> N	Algal Mat?	Y <input checked="" type="checkbox"/> N	Algal Mat?	Y <input checked="" type="checkbox"/> N	Algal Mat?	Y <input checked="" type="checkbox"/> N
Other?	Y N	Other?	Y N	Other?	Y N	Other?	Y N	Other?	Y N
ft= below water surface		Lithology:		Lithology:		Lithology:		Lithology:	
Stations 1 to 5		Flocc. present		DARK GREY & BROWN		ORGANIC FLOCC w/		Details for other:	
from left to right		DARK GREY FINE SAND		FINE SOME w/ ORGANICS		MINOR FINE SAND			
while facing upstream		w/ ORGANICS		trace Flocc					
		Photo	YES	Photo	YES	Photo	YES	SAMPLE: CZ2.5SED (date)	

TIME:
1430

SURFACE WATER	
temp (C)	25.38
conductivity (uS/cm)	2352
pH (SU)	7.63
DO (%)	104.4 mg/L 8.49
ORP (mV)	229.1
turbidity (NTU)	0.77
TIME	1445
SAMPLE: CZ2.5SW (date)	notes:

PORE WATER	
temp (C)	25.27
conductivity (uS/cm)	7866
pH (SU)	7.25
DO (%)	26.1 mg/L 2.11
ORP (mV)	241.1
turbidity (NTU)	4.00
TIME	1445
SAMPLE: CZ2.5PW (date)	notes:

TRANSECT: CHASSAHOWITZKA 4.0

TRANSECT Lat 26.71539 Long -82.58575

DATE 10.15.2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Low Relief, WOODED

RIGHT BANK Low Relief, WOODED

details for Y _____

OUTFALLS

Y N

Y N

Photo

UTILITIES

Y N

Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	3.0	Water	5.60	Water	4.25	Water	3.50	Water	3.00
Flocculant	4.25	Flocculant	5.50	Flocculant	4.50	Flocculant	6.25	Flocculant	5.00
penetration	4.25	penetration	6.00	penetration	5.25	penetration	6.25	penetration	5.00
refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N
SAV?	Y <input checked="" type="checkbox"/>	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	Y <input checked="" type="checkbox"/>	SAV?	Y <input checked="" type="checkbox"/> N
Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> Y
Other?	Y <input checked="" type="checkbox"/>	Other?	Y <input checked="" type="checkbox"/>	Other?	Y <input checked="" type="checkbox"/>	Other?	Y <input checked="" type="checkbox"/>	Other?	Y <input checked="" type="checkbox"/>
ft= below water surface		Lithology:		Lithology:		Lithology:		Lithology:	
Stations 1 to 5		MOSTLY FLOCC (BLACK) w/ FINE SAND ORGANICS		MOSTLY FLOCC + FINE SAND w/ FINE SAND ORGANICS		DARK GREY FINE SAND FLOCC PRESENT ORGANICS		Details for other:	
from left to right		Photo	yes	Photo	yes	Photo	yes	SAMPLE: CZ4.05ED (date)	
while facing upstream									

TRANSECT: CHASSAHOWITZKA 4.5
 TRANSECT Lat 28.71561 Long -82.58675
 DATE 10.15.2015

BANK OBSERVATIONS (facing upstream)
 LEFT BANK Low Relief, WOODED
 RIGHT BANK Low Relief, WOODED
 details for Y _____
 Photo yes (RIGHT SIDES)

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	2.50	Water	3.75	Water	3.75	Water	3.75	Water	1.75
Flocculant	3.00	Flocculant	4.50	Flocculant	4.50	Flocculant	4.25	Flocculant	2.50
penetration	3.75	penetration	5.00	penetration	4.75	penetration	4.25	penetration	4.00
refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N
SAV?	<input checked="" type="radio"/> N	SAV?	<input checked="" type="radio"/> N	SAV?	<input checked="" type="radio"/> N	SAV?	<input checked="" type="radio"/> N	SAV?	<input checked="" type="radio"/> N
Algal Mat?	<input checked="" type="radio"/> N	Algal Mat?	<input checked="" type="radio"/> N	Algal Mat?	<input checked="" type="radio"/> N	Algal Mat?	<input checked="" type="radio"/> N	Algal Mat?	<input checked="" type="radio"/> N
Other?	<input checked="" type="radio"/> N	Other?	<input checked="" type="radio"/> N	Other?	<input checked="" type="radio"/> N	Other?	<input checked="" type="radio"/> N	Other?	<input checked="" type="radio"/> N
ft= below water surface Stations 1 to 5 from left to right while facing upstream		Lithology: <u>light green FINE SAND</u> <u>TRACE ORGANICS</u> <u>TRACE FLOCC</u>		Lithology: <u>TAN FINE SAND</u> <u>TRACE ORGANICS</u> <u>NO FLOCC</u>		Lithology: <u>Light Brown FINE SAND</u> <u>ORGANICS</u> <u>TRACE FLOCC</u>		Details for other: SAMPLE: CZ4.5SED (date)	
Photo	yes	Photo	yes	Photo	yes	Photo	yes	Photo	yes

1140

SURFACE WATER	
temp (C)	24.44
conductivity (uS/cm)	3494
pH (SU)	7.53
DO (%)	76.2 mg/L 6.30
ORP (mV)	102.6
turbidity (NTU)	1.13
TIME	1205
SAMPLE: CZ4.5SW (date)	notes:

PORE WATER	
temp (C)	24.15
conductivity (uS/cm)	6268
pH (SU)	7.31
DO (%)	16.5 mg/L 1.32
ORP (mV)	-49.3
turbidity (NTU)	1.03
TIME	1205
SAMPLE: CZ4.5PW (date)	notes:

TRANSECT: CHASSAHOWITZKA 5.5
 TRANSECT Lat 28.71763 Long - 82.5907
 DATE 10-15-2015

BANK OBSERVATIONS (facing upstream)
 LEFT BANK Low Relief, Abandoned
 RIGHT BANK Low Relief, Wooded
 details for Y

OUTFALLS
 Y (N)
 Y (N)
 Photo

UTILITIES
 Y (N)
 Y (N)

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	2.00	Water	1.75	Water	2.25	Water	1.5	Water	1.25
Flocculant	2.25	Flocculant	3.25	Flocculant	2.50	Flocculant	1.75	Flocculant	3.00
penetration	2.25	penetration	3.25	penetration	2.50	penetration	3.00	penetration	3.00
refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N
SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N
Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N
Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N
ft= below water surface Stations 1 to 5 from left to right while facing upstream		Lithology: Light grey Fine Sand Trace organics Trace Flocc		Lithology: TAN FINE SAND Trace organics		Lithology: GREY FINE SAND FLOCC Present		Details for other:	
Photo	yes	Photo	yes	Photo	yes	Photo	yes	SAMPLE: CZ5.5SED (date)	1510

SURFACE WATER	
temp (C)	26.00
conductivity (uS/cm)	3378
pH (SU)	7.76
DO (%)	106.6
ORP (mV)	154.1
turbidity (NTU)	2.61
TIME	1520
SAMPLE: CZ5.5SW (date)	notes:

PORE WATER	
temp (C)	25.31
conductivity (uS/cm)	3805
pH (SU)	7.49
DO (%)	26.8
ORP (mV)	89.1
turbidity (NTU)	1.66
TIME	1520
SAMPLE: CZ5.5PW (date)	notes:

TRANSECT: CHASSAHOWITZKA 6.0

TRANSECT Lat 28.71968 Long -82.59391

DATE 10-15-2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Cat tails, wooded

RIGHT BANK Cat tails, wooded

details for Y _____

OUTFALLS

Y N

Y (N)

Photo

UTILITIES

Y N

Y (N)

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	1.5	Water	2.0	Water	3.50	Water	1.75	Water	2.0
Flocculant	2.5	Flocculant	2.50	Flocculant	4.25	Flocculant	3.00	Flocculant	2.5
penetration	9.5	penetration	4.50	penetration	5.00	penetration	4.50	penetration	4.5
refusal?	Y <u>(N)</u>	refusal?	<u>(Y)</u> N	refusal?	<u>(Y)</u> N	refusal?	<u>(Y)</u> N	refusal?	<u>(Y)</u> N
SAV?	<u>(Y)</u> N	SAV?	<u>(Y)</u> N	SAV?	<u>(Y)</u> N	SAV?	<u>(Y)</u> N	SAV?	<u>(Y)</u> N
Algal Mat?	<u>(Y)</u> N	Algal Mat?	Y <u>(N)</u>	Algal Mat?	<u>(Y)</u> N	Algal Mat?	<u>(Y)</u> N	Algal Mat?	<u>(Y)</u> N
Other?	Y <u>(N)</u>	Other?	Y <u>(N)</u>	Other?	Y <u>(N)</u>	Other?	Y <u>(N)</u>	Other?	Y <u>(N)</u>
ft= below water surface		Lithology:	TAN FINE SAND TRACE ORGANICS TRACE FLOCC	Lithology:	TAN FINE SAND ORGANICS TRACE FLOCC	Lithology:	GREY FINE SAND TRACE ORGANICS TRACE FLOCC	Details for other:	
Stations 1 to 5		Photo	yes	Photo	yes	Photo	yes	SAMPLE: CZ6.05ED (date)	
from left to right									
while facing upstream									

1555

CZ6.5 SED (10/16/2015)

TRANSECT: CHASSAHOWITZKA 6.5
 TRANSECT Lat 28.72026 Long -82.59575
 DATE 10.16.2015

BANK OBSERVATIONS (facing upstream)
 LEFT BANK Low Relief, WOODED CAT TAILS
 RIGHT BANK Low Relief, WOODED CAT TAILS
 details for Y
 Photo yes left
 UTILITIES
 Y (N) Y (N)
 Y (N) Y (N)

PIC

SIDE

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	3.50	Water	3.25	Water	2.00	Water	3.25	Water	3.00
Flocculant	4.75	Flocculant	4.00	Flocculant	2.75	Flocculant	5.50	Flocculant	4.00
penetration	5.00	penetration	4.25	penetration	5.00	penetration	5.50	penetration	4.50
refusal?	(Y) N	refusal?	(Y) N	refusal?	(Y) N	refusal?	(Y) N	refusal?	(Y) N
SAV?	(Y) N	SAV?	(Y) N	SAV?	(Y) N	SAV?	(Y) N	SAV?	(Y) N
Algal Mat?	(Y) N	Algal Mat?	(Y) N	Algal Mat?	(Y) N	Algal Mat?	(Y) N	Algal Mat?	(Y) N
Other?	(Y) N	Other?	(Y) N	Other?	(Y) N	Other?	(Y) N	Other?	(Y) N
ft= below water surface Stations 1 to 5 from left to right while facing upstream		Lithology: GREY FINE SAND ORGANICS TRACE FLOCC		Lithology: GREY FINE SAND ORGANICS TRACE FLOCC		Lithology: GREY FINE SAND ORGANICS TRACE FLOCC		Details for other: SAMPLE: CZ6.5SED (date)	
Photo	yes	Photo	yes	Photo	yes	Photo	yes	Photo	0905

SURFACE WATER	
temp (C)	21.6Z
conductivity (uS/cm)	347Z
pH (SU)	6.81
DO (%)	48.7
ORP (mV)	305.4
turbidity (NTU)	0.66
TIME	0925
SAMPLE: CZ6.5SW (date)	notes:

CZ6.5SW (10/16/2015)

PORE WATER	
temp (C)	22.79
conductivity (uS/cm)	4281
pH (SU)	7.03
DO (%)	14.1
ORP (mV)	20.6
turbidity (NTU)	3.08
TIME	0925
SAMPLE: CZ6.5PW (date)	notes:

(10/16/2015)

ON BANK
EDGE

TRANSECT: CHASSAHOWITZKA 7.0
 TRANSECT Lat 28.72095 Long -82.59731
 DATE 10-16-2015

BANK OBSERVATIONS (facing upstream)
 LEFT BANK LOW Relief, WOODED
 RIGHT BANK LOW Relief, WOODED
 details for Y _____
 Photo _____
 UTILITIES
 Y (N)
 Y (N)

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	2.50	Water	3.00	Water	3.00	Water	3.00	Water	2.50
Flocculant	3.00	Flocculant	3.75	Flocculant	5.00	Flocculant	4.50	Flocculant	4.50
penetration	5.50	penetration	4.25	penetration	5.50	penetration	7.00	penetration	5.00
refusal?	<u>(Y)</u> N	refusal?	<u>(Y)</u> N	refusal?	<u>(Y)</u> N	refusal?	<u>(Y)</u> N	refusal?	<u>(Y)</u> N
SAV?	<u>(Y)</u> N	SAV?	<u>(Y)</u> N	SAV?	<u>(Y)</u> N	SAV?	<u>(Y)</u> N	SAV?	<u>(Y)</u> N
Algal Mat?	<u>(Y)</u> N	Algal Mat?	<u>(Y)</u> N	Algal Mat?	<u>(Y)</u> N	Algal Mat?	<u>(Y)</u> N	Algal Mat?	<u>(Y)</u> N
Other?	<u>(Y)</u> N	Other?	<u>(Y)</u> N	Other?	<u>(Y)</u> N	Other?	<u>(Y)</u> N	Other?	<u>(Y)</u> N
ft= below water surface Stations 1 to 5 from left to right while facing upstream		Lithology: <u>GREY FINE SAND</u> <u>TRACE ORGANICS</u> <u>TRACE FLOCC</u>		Lithology: <u>LITE GREY FINE SAND</u> <u>TRACE ORGANICS</u> <u>TRACE FLOCC</u>		Lithology: <u>LITE GREY FINE SAND</u> <u>TRACE ORGANICS</u> <u>TRACE FLOCC</u>		Details for other:	
	Photo	Photo	Photo	Photo	Photo	Photo	Photo	SAMPLE: CZ7.0SED (date)	
		yes	yes	yes	yes	yes	yes		

TIME: 1010

TRANSECT: CHASSAHOWITZKA 7.5
 TRANSECT Lat 28.72066 Long -82.59859
 DATE 10.16.2015

BANK OBSERVATIONS (facing upstream)
 LEFT BANK Low Relief, WOODED, SPARSE CAT TAILS
 RIGHT BANK Low Relief, WOODED, CAT TAILS
 details for Y

UTILITIES	
OUTFALLS	Y (N)
	Y (N)
Photo	

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	4.00	Water	3.00	Water	3.00	Water	2.5	Water	1.5
Flocculant	4.25	Flocculant	5.25	Flocculant	5.00	Flocculant	4.25	Flocculant	3.5
penetration	5.00	penetration	5.75	penetration	5.00	penetration	5.50	penetration	6.25
refusal?	(Y) N	refusal?	(Y) N	refusal?	(Y) N	refusal?	(Y) N	refusal?	(Y) N
SAV?	Y N	SAV?	(Y) N	SAV?	(Y) N	SAV?	(Y) N	SAV?	(Y) N
Algal Mat?	Y N	Algal Mat?	(Y) N	Algal Mat?	(Y) N	Algal Mat?	(Y) N	Algal Mat?	(Y) N
Other?	Y N	Other?	(Y) N	Other?	(Y) N	Other?	(Y) N	Other?	(Y) N
ft= below water surface		Lithology:	GREY FINE SAND	Lithology:	GREY FINE SAND	Lithology:	GREY FINE SAND	Details for other:	
Stations 1 to 5			SMALL SHELL FRAG.		SMALL SHELL FRAG.		SMALL SHELL FRAG.		
from left to right			TRACE ORGANICS		TRACE ORGANICS		TRACE ORGANICS		
while facing upstream		Photo	YES	Photo	YES	Photo	YES		

Almost to TOP OF WATER

1050

low to ZERO visibility

SURFACE WATER	
temp (C)	23.16
conductivity (uS/cm)	4003
pH (SU)	7.42
DO (%)	72.5
ORP (mV)	211.4
turbidity (NTU)	1.42
TIME	1120
SAMPLE: CZ7.5SW (date)	notes:

PORE WATER	
temp (C)	23.79
conductivity (uS/cm)	5364
pH (SU)	7.35
DO (%)	12.3
ORP (mV)	-251.8
turbidity (NTU)	2.26
TIME	1120
SAMPLE: CZ7.5PW (date)	notes:

TRANSECT: CHASSAHOWITZKA 8.0

TRANSECT Lat 28.71979 Long -82.60099

DATE 10-16-2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Low, Relief, ^{MOSTLY PALM} TREE & SAWGRASS

RIGHT BANK Low Relief, WOODED

details for Y ABANDONED HOUSE, does not

LOOK OCCUPIED

OUTFALLS

Y N

Y N

Y N

N

Photo YES Right side

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	2.75	Water	5.00	Water	3.50	Water	2.50	Water	2.50
Flocculant	-	Flocculant	-	Flocculant	6.50	Flocculant	4.00	Flocculant	3.00
penetration	2.75	penetration	5.00	penetration	6.50	penetration	4.50	penetration	4.00
refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N
SAV?	Y N ?	SAV?	Y <input checked="" type="radio"/> N	SAV?	Y <input checked="" type="radio"/> N	SAV?	Y <input checked="" type="radio"/> N	SAV?	Y N
Algal Mat?	Y N ?	Algal Mat?	Y <input checked="" type="radio"/> N	Algal Mat?	Y <input checked="" type="radio"/> N	Algal Mat?	Y <input checked="" type="radio"/> N	Algal Mat?	Y N
Other?	<input checked="" type="radio"/> N	Other?	Y <input checked="" type="radio"/> N	Other?	Y <input checked="" type="radio"/> N	Other?	Y <input checked="" type="radio"/> N	Other?	Y N
ft= below water surface		Lithology:	MOSTLY FLOCC GREY FINE SAND w/ SHELL FRAG. TRACE ORGANICS	Lithology:	DARK GRAY FINE SAND TRACE ORGANICS FLOCC SMALL SHAL FRAG.	Lithology:	DARK GRAY FINE SAND TRACE ORGANIC TRACE FLOCC SMALL SHAL FRAG.	Details for other:	
Stations 1 to 5 from left to right		Photo	yes	Photo	yes	Photo	yes	SAMPLE: CZ8.05ED (date)	

Time: 1225

Little to ZERO
Visibility

"HARD" Refusal

OTHER: submerged trees

Little/ZERO
Visibility

TRANSECT: CHASSAHOWITZKA 8.5
 TRANSECT Lat 26.7195 Long -82.603
 DATE 10.16.2015

BANK OBSERVATIONS (facing upstream)
 LEFT BANK Low Relief, w/ PALM trees
MANY PALM TREES
AND SAW GRASSES
 RIGHT BANK Low Relief, SPARSE PALM TREES
AND SAW GRASSES
 details for Y Photo

OUTFALLS UTILITIES
 Y N Y N
 Y N Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	3.75	Water	5.50	Water	5.00	Water	2.75	Water	1.50
Flocculant	10.25	Flocculant	9.00	Flocculant	7.50	Flocculant	5.50	Flocculant	2.50
penetration	11.50	penetration	11.00	penetration	10.00	penetration	6.75	penetration	3.50
refusal?	Y N	refusal?	Y N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N
SAV?	Y N	SAV?	Y N	SAV?	Y N	SAV?	Y N	SAV?	Y N
Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	Y N
Other?	Y N	Other?	Y N	Other?	Y N	Other?	Y N	Other?	Y N
ft= below water surface		Lithology:		Lithology:		Lithology:		Lithology:	
Stations 1 to 5		Dark Grey FINE SAND w/ shell FRAG.		Dark Grey FINE SAND w/ shell FRAG.		Dark Grey FINE SAND w/ shell FRAG.		Dark Grey FINE SAND w/ shell FRAG.	
from left to right		HEAVY FLOCC TRACE ORGANIC		HEAVY FLOCC TRACE ORGANIC		HEAVY FLOCC TRACE ORGANIC		HEAVY FLOCC TRACE ORGANIC	
while facing upstream		Photo	YES	Photo	YES	Photo	YES	Photo	YES

zero VISIBILITY
 1345
 Time: 1345

* SEDIMENT SAMPLES HAVE "sulfur" smell (MODERATE)

SURFACE WATER	
temp (C)	24.67
conductivity (uS/cm)	4386
pH (SU)	7.76
DO (%)	80.6 mg/L 6.60
ORP (mV)	94.4
turbidity (NTU)	3.94
TIME	1405
SAMPLE: CZ8.5SW (date)	notes:

PORE WATER	
temp (C)	24.90
conductivity (uS/cm)	5462
pH (SU)	7.37
DO (%)	14.8 mg/L 1.21
ORP (mV)	-261.3
turbidity (NTU)	2.69
TIME	1405
SAMPLE: CZ8.5PW (date)	notes:

Mick FLOCCULANT

TRANSECT: CHASSAHOWITZKA 9.0

TRANSECT Lat 28.71527 Long -82.60363

DATE 10-16-2015

BANK OBSERVATIONS (facing upstream)		OUTFALLS	UTILITIES
LEFT BANK <u>Low Relief, wooded w/ PALMS & SAW GRASS</u>		Y <input checked="" type="checkbox"/> N	Y <input checked="" type="checkbox"/> N
RIGHT BANK <u>Low Relief, PALM TREES & SAW GRASS</u>		Y <input checked="" type="checkbox"/> N	Y <input checked="" type="checkbox"/> N
details for Y		Photo	

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	3.00	Water	4.75	Water	4.50	Water	3.75	Water	2.5
Flocculant	5.25	Flocculant	6.25	Flocculant	5.50	Flocculant	4.25	Flocculant	4.5
penetration	5.75	penetration	7.75	penetration	8.50	penetration	4.25	penetration	5.5
refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N
SAV?	Y <input checked="" type="checkbox"/> N	SAV?	Y <input checked="" type="checkbox"/> N	SAV?	Y <input checked="" type="checkbox"/> N	SAV?	Y <input checked="" type="checkbox"/> N	SAV?	Y <input checked="" type="checkbox"/> N
Algal Mat?	Y <input checked="" type="checkbox"/> N	Algal Mat?	Y <input checked="" type="checkbox"/> N	Algal Mat?	Y <input checked="" type="checkbox"/> N	Algal Mat?	Y <input checked="" type="checkbox"/> N	Algal Mat?	Y <input checked="" type="checkbox"/> N
Other?	Y <input checked="" type="checkbox"/> N	Other?	Y <input checked="" type="checkbox"/> N	Other?	Y <input checked="" type="checkbox"/> N	Other?	Y <input checked="" type="checkbox"/> N	Other?	Y <input checked="" type="checkbox"/> N
ft= below water surface Stations 1 to 5 from left to right while facing upstream		Lithology: BROWN/GREY FINE SAND w/ shell FRAG. TRACE ORGANICS		Lithology: GREY FINE SAND w/ shell FRAG. TRACE ORG		Lithology: GREY FINE SAND w/ shell FRAG. TRACE ORGANICS		Details for other:	
Photo	yes	Photo	yes	Photo	yes	Photo	yes	SAMPLE: CZ9.05ED (date)	1535

Low Relief

No visibility

TRANSECT: CHASSAHOWITZKA 9.5
 TRANSECT Lat 28.71481 Long -82.60653
 DATE 10-10-2015

BANK OBSERVATIONS (facing upstream)
 LEFT BANK Low Relief, Sparse wooded area, Palm trees, grass
 RIGHT BANK Low Relief, Palm trees, grass
 details for Y

UTILITIES	Y <input checked="" type="checkbox"/>
OUTFALLS	Y <input checked="" type="checkbox"/>
Photo	

Low Visibility

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	2.75	Water	6.00	Water	6.25	Water	3.50	Water	2.50
Flocculant penetration	5.00	Flocculant penetration	8.00	Flocculant penetration	8.75	Flocculant penetration	6.25	Flocculant penetration	3.50
refusal? <input checked="" type="checkbox"/> Y N		refusal? <input checked="" type="checkbox"/> Y N		refusal? <input checked="" type="checkbox"/> Y N		refusal? <input checked="" type="checkbox"/> Y N		refusal? <input checked="" type="checkbox"/> Y N	
SAV? <input checked="" type="checkbox"/> Y N		SAV? <input type="checkbox"/> Y N		SAV? <input type="checkbox"/> Y N		SAV? <input checked="" type="checkbox"/> Y N		SAV? <input checked="" type="checkbox"/> Y N	
Algal Mat? <input checked="" type="checkbox"/> Y N		Algal Mat? <input type="checkbox"/> Y N		Algal Mat? <input type="checkbox"/> Y N		Algal Mat? <input checked="" type="checkbox"/> Y N		Algal Mat? <input checked="" type="checkbox"/> Y N	
Other? <input checked="" type="checkbox"/> Y N		Other? <input type="checkbox"/> Y N		Other? <input type="checkbox"/> Y N		Other? <input checked="" type="checkbox"/> Y N		Other? <input checked="" type="checkbox"/> Y N	
ft= below water surface									
Stations 1 to 5 from left to right while facing upstream									
Lithology:		Lithology:		Lithology:		Lithology:		Lithology:	
FLOCC W/GREY FINE SAND & SHELL FRAG. TRACE ORGANICS		FLOCC FINE SAND & SHELL FRAG. TRACE ORGANICS		FLOCC W/GREY FINE SAND & SHELL FRAG. TRACE ORGANICS		GREY FINE SAND w/ SHELL FRAG. TRACE ORGANICS		Details for other:	
Photo		Photo		Photo		Photo		SAMPLE: CZ9.5SED (date)	
yes		yes		yes		yes			

Time
1400

SURFACE WATER	
temp (C)	
conductivity (us/cm)	
pH (SU)	
DO (%)	mg/L
ORP (mV)	
turbidity (NTU)	
TIME	
SAMPLE: CZ9.5SW (date)	
notes:	

SURFACE & PORE WATER TAKEN @ CZ.10.0

PORE WATER	
temp (C)	
conductivity (us/cm)	
pH (SU)	
DO (%)	mg/L
ORP (mV)	
turbidity (NTU)	
TIME	
SAMPLE: CZ9.5PW (date)	
notes:	

TRANSECT: CHASSAHO WITZKA 10.0
 TRANSECT Lat 28.71472 Long -82.60861
 DATE 8-12-2015

BANK OBSERVATIONS (facing upstream) PALM
 LEFT BANK LOW RELIEF, WOODED TREES, GLASS
 RIGHT BANK LOW RELIEF, WOODED, TREES
 details for Y

UTILITIES	Y <input checked="" type="radio"/> N
OUTFALLS	Y <input checked="" type="radio"/> N
Photo	Y <input checked="" type="radio"/> N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	2.5	Water	6.25	Water	6.5	Water	4.0	Water	2.50
Flocculant	4.5	Flocculant	8.0	Flocculant	9.25	Flocculant	7.25	Flocculant	4.0
penetration	4.75	penetration	10.75	penetration	10.0	penetration	7.75	penetration	4.5
refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N
SAV?	<input checked="" type="radio"/> N	SAV?	<input checked="" type="radio"/> N	SAV?	<input checked="" type="radio"/> N	SAV?	<input checked="" type="radio"/> N	SAV?	<input checked="" type="radio"/> N
Algal Mat?	<input checked="" type="radio"/> N	Algal Mat?	<input checked="" type="radio"/> N	Algal Mat?	<input checked="" type="radio"/> N	Algal Mat?	<input checked="" type="radio"/> N	Algal Mat?	<input checked="" type="radio"/> N
Other?	<input checked="" type="radio"/> N	Other?	<input checked="" type="radio"/> N	Other?	<input checked="" type="radio"/> N	Other?	<input checked="" type="radio"/> N	Other?	<input checked="" type="radio"/> N
ft= below water surface		Lithology:	FLOC W/ GREY FINE SAND, TRACE ORGANICS	Lithology:	FLOCC GREY FINE SAND	Lithology:	FLOCC. GREY FINE SAND W/ SHELL FRAGS TRACE ORGANICS	Details for other:	
Stations 1 to 5 from left to right while facing upstream		Photo	yes	Photo	yes	Photo	yes	SAMPLE:	

*LOW VISIBILITY

SURFACE WATER	
temp (C)	26.00
conductivity (uS/cm)	4887
pH (SU)	7.73
DO (%)	92.6 mg/L
ORP (mV)	99.1
turbidity (NTU)	7.21
TIME	IN COL
SAMPLE: C2.10.05W	notes:

PORE WATER	
temp (C)	26.26
conductivity (uS/cm)	5820
pH (SU)	7.01
DO (%)	16.0 mg/L
ORP (mV)	-330.2
turbidity (NTU)	2.92
TIME	IN COL
SAMPLE: C2.10.5 PW	notes:

TRANSECT: HOMOSASSA 1.0

TRANSECT Lat 28.79885 Long -82.5961

DATE 10-22-2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Low Relief, Wooded

RIGHT BANK Low Relief, Wooded

details for Y

OUTFALLS

Y N

Y N

Photo

UTILITIES

Y N

Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	5.00	Water	6.25	Water	7.50	Water	8.50	Water	9.00
Flocculant	6.00	Flocculant	6.50	Flocculant	8.00	Flocculant	9.50	Flocculant	10.00
penetration	6.25	penetration	6.50	penetration	8.50	penetration	9.50	penetration	10.50
refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N
SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N
Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N
Other?	Y <input checked="" type="checkbox"/> N	Other?	Y <input checked="" type="checkbox"/> N	Other?	Y <input checked="" type="checkbox"/> N	Other?	Y <input checked="" type="checkbox"/> N	Other?	Y <input checked="" type="checkbox"/> N
ft= below water surface		Lithology: Lite Grey FINE SAND		Lithology: DARK Grey FINE SAND		Lithology: DARK Grey FINE SAND		Details for other:	
Stations 1 to 5		TRACE FLOCC		w/ FLOCC		w/ FLOCC			
from left to right		TRACE ORGANICS		TRACE ORGANICS		TRACE ORGANICS			
while facing upstream		Photo	YES	Photo	YES	Photo	YES	SAMPLE: HM1.OSED (date)	

@ 1230

↓ Pulled SAV's up with sed. sample

TRANSECT: HOMOSASSA 1.5

TRANSECT Lat 28.80041 Long -82.59379

DATE 10-22-2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK low relief, wooded

RIGHT BANK See wall, House

details for Y

OUTFALLS

Y N

Y N

Photo

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	5.00	Water	8.50	Water	12.00	Water	9.00	Water	5.75
Flocculant	5.75	Flocculant	9.50	Flocculant	12.00	Flocculant	12.50	Flocculant	6.00
penetration	5.75	penetration	9.50	penetration	12.00	penetration	12.50	penetration	6.00
refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
SAV?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	SAV?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	SAV?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	SAV?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	SAV?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Algal Mat?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Algal Mat?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Algal Mat?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <u>Detritus</u>	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N *	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N *	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N *	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
ft= below water surface		Lithology:		Lithology:		Lithology:		Details for other:	
Stations 1 to 5		BLACK FLOCC		BLACK FLOCC		BLACK FLOCC		* NO	
from left to right		TRACE ORGANICS		TRACE ORGANICS		TRACE ORGANICS		VISIBILITY	
while facing upstream		Photo		Photo		Photo		SAMPLE: HM1.5SED (date)	
		YES		YES		YES			

Detritus present

@ 1030

SURFACE WATER	
temp (C)	23.89
conductivity (uS/cm)	2804
pH (SU)	6.61
DO (%)	49.6
ORP (mV)	187.2
turbidity (NTU)	1.13
TIME	1010
SAMPLE: HM1.5SW (date) notes:	

PORE WATER	
temp (C)	25.11
conductivity (uS/cm)	3856
pH (SU)	7.18
DO (%)	27.5
ORP (mV)	-235.2
turbidity (NTU)	0.30
TIME	1010
SAMPLE: HM1.5PW (date) notes:	

- Difficult pulling sample w/ Flocc here slow.

TRANSECT: HOMOSASSA 2.0

TRANSECT Lat 28.80061 Long -82.59613

DATE 10.27.2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK SEA WALL, HOUSES

RIGHT BANK SEA WALL, HOUSES

details for Y _____

OUTFALLS

Y N

Y N

Photo _____

UTILITIES

Y N

Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	6.00	Water	5.50	Water	7.00	Water	5.50	Water	4.25
Flocculant penetration	8.00	Flocculant penetration	7.75	Flocculant penetration	9.25	Flocculant penetration	6.00	Flocculant penetration	4.50
refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N
SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N	SAV?	<input checked="" type="checkbox"/> N
Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N
Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N
ft= below water surface Stations 1 to 5 from left to right while facing upstream		Lithology: LIFE GRAY FINE SAND TRACE FLOCC TRACE ORGANICS		Lithology: DARK GRAY FINE SAND w/ FLOCC TRACE ORGANICS		Lithology: LIFE GRAY FINE SAND TRACE ORGANICS TRACE FLOCC		Details for other:	
		Photo	yes	Photo	yes	Photo	yes	SAMPLE: HM2.05ED (date)	

@ 0950

TRANSECT: HOMOSASSA 2.5
 TRANSECT Lat 28.79896 Long -82.59815
 DATE 10.21.2015

BANK OBSERVATIONS (facing upstream)
 LEFT BANK Low Relief, WOODED
 RIGHT BANK Low Relief, WOODED
 details for Y _____
 Photo _____

OUTFALLS
 Y N
 Y N
 UTILITIES
 Y N
 Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	3.50	Water	4.50	Water	7.50	Water	8.50	Water	4.00
Flocculant	3.75	Flocculant	4.50	Flocculant	8.75	Flocculant	9.00	Flocculant	4.00
penetration	3.75	penetration	5.50	penetration	8.75	penetration	9.50	penetration	4.00
refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
SAV?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	SAV?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	SAV?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	SAV?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	SAV?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Algal Mat?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Algal Mat?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <i>Detritus</i>	Other?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N *	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N *	Other?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
ft= below water surface Stations 1 to 5 from left to right while facing upstream		Lithology: Life Grey FINE SAND w/ FLOCC ORGANICS TRACE SHELL FRAG.		Lithology: BLACK FINE SAND TRACE FINE SAND TRACE ORGANICS TRACE SHELL FRAG.		Lithology: Life Grey FINE SAND w/ FLOCC TRACE ORGANICS TRACE SHELL FRAG.		Lithology: Life Grey FINE SAND w/ FLOCC TRACE ORGANICS TRACE SHELL FRAG.	Details for other: * NO VISIBILITY
Photo	Yes	Photo	Yes	Photo	Yes	Photo	Yes	Photo	Yes
SAMPLE: HM2.5SW (date) notes:									

e 1670

SURFACE WATER	
temp (C)	24.53
conductivity (uS/cm)	2106
pH (SU)	6.83
DO (%)	78.9
ORP (mV)	208.3
turbidity (NTU)	1.04
TIME	1630
SAMPLE: HM2.5SW (date) notes:	

10-21-2015

PORE WATER	
temp (C)	24.73
conductivity (uS/cm)	3365
pH (SU)	7.05
DO (%)	20.7
ORP (mV)	-76.3
turbidity (NTU)	0.34
TIME	1630
SAMPLE: HM2.5PW (date) notes:	

10-21-2015

Detritus

TRANSECT: HOMOSASSA 3.5

TRANSECT Lat 28.76769 Long -82.6019

DATE 10.20.2015 / 10.21.2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK SEA WALL, HOUSE

RIGHT BANK Low Relief, WOODED

details for Y

OUTFALLS

Y N

Y N

Photo

UTILITIES

Y N

Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	5.00	Water	6.00	Water	5.75	Water	5.50	Water	4.50
Flocculant	5.75	Flocculant	8.50	Flocculant	7.50	Flocculant	8.00	Flocculant	6.75
penetration	5.75	penetration	8.50	penetration	7.50	penetration	8.25	penetration	6.75
refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
SAV?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	SAV?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	SAV?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	SAV?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	SAV?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Algal Mat?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Algal Mat?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Algal Mat?	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Algal Mat?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
ft= below water surface		Lithology:	BLACK FLOCC	Lithology:	GRAY/BROWN FINE SAND	Lithology:	Light Grey FINE SAND	Details for other:	* NO VISIBILITY
Stations 1 to 5		TRACE ORGANICS		TRACE ORGANICS		w/ FLOCC			
from left to right		& shell FRAG		TRACE ORGANICS		TRACE ORGANICS			
while facing upstream		Photo	yes	Photo	yes	Photo	yes	Photo	
									SAMPLE: HM3.5SED (date)

@ 1520

SURFACE WATER	
temp (C)	23.86
conductivity (uS/cm)	4341
pH (SU)	8.15
DO (%)	86.0
ORP (mV)	-52.5
turbidity (NTU)	0.167
TIME	1740
SAMPLE: HM3.5SW (date)	notes:

10/20/2015

PORE WATER	
temp (C)	23.75
conductivity (uS/cm)	5484
pH (SU)	7.30
DO (%)	13.7
ORP (mV)	mg/L 1.14
turbidity (NTU)	- 304.3
TIME	0.39
	1740
SAMPLE: HM3.5PW (date)	notes:

10/20/2015

TRANSECT: HOMOSASSA 4.0
 TRANSECT Lat 28.79548 Long -82.60343
 DATE 10.21.2015

BANK OBSERVATIONS (facing upstream)
 LEFT BANK SEA WALL, HOUSE
 RIGHT BANK LOW RELIEF, WOODS
 details for Y _____
 Photo _____

OUTFALLS
 Y N
 Y (N)
 UTILITIES
 Y N
 Y (N)

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	<u>4.25</u>	Water	<u>6.00</u>	Water	<u>8.25</u>	Water	<u>5.50</u>	Water	<u>4.00</u>
Flocculant	<u>5.00</u>	Flocculant	<u>7.50</u>	Flocculant	<u>9.50</u>	Flocculant	<u>7.50</u>	Flocculant	<u>5.00</u>
penetration	<u>6.50</u>	penetration	<u>7.50</u>	penetration	<u>10.50</u>	penetration	<u>8.00</u>	penetration	<u>6.50</u>
refusal?	<u>(Y) N</u>	refusal?	<u>(Y) N</u>	refusal?	<u>(Y) N</u>	refusal?	<u>(Y) N</u>	refusal?	<u>(Y) N</u>
SAV?	<u>(Y) N</u>	SAV?	<u>(Y) N</u>	SAV?	<u>(Y) N</u>	SAV?	<u>(Y) N</u>	SAV?	<u>(Y) N</u>
Algal Mat?	<u>(Y) N</u>	Algal Mat?	<u>(Y) N</u>	Algal Mat?	<u>(Y) N</u>	Algal Mat?	<u>(Y) N</u>	Algal Mat?	<u>(Y) N</u>
Other?	<u>(Y) N shell</u>	Other?	<u>(Y) N *</u>	Other?	<u>(Y) N *</u>	Other?	<u>(Y) N *</u>	Other?	<u>(Y) N *</u>
ft= below water surface Stations 1 to 5 from left to right while facing upstream		Lithology: <u>BLACK FLOCC w/ DARK GREY FINE SAND TRACE ORG & SHELL FRAG</u>		Lithology: <u>DARK GREY FINE SAND w/ FLOCC TRACE ORG & SHELL FRAG.</u>		Lithology: <u>LITE GREY FINE SAND FLOCC TRACE ORG. & SHELL FRAG</u>		Details for other: <u>* NO VISIBILITY</u>	
		Photo	<u>YES</u>	Photo	<u>YES</u>	Photo	<u>YES</u>	SAMPLE: HM4.0SED (date)	

1455

TRANSECT: HOMOSASSA 4.5
 TRANSECT Lat 28.79508 Long -82.60582
 DATE 10-20-2015 / 10-21-2015

BANK OBSERVATIONS (facing upstream)
 LEFT BANK SEA WALL, HOUSE
 RIGHT BANK Low Relief, Wooded
 details for Y _____
 Photo _____

OUTFALLS
 Y N
 Y (N)
 UTILITIES
 Y N
 Y (N)

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)			
Water	4.50	Water	5.50	Water	6.00	Water	6.25	Water	3.25			
Flocculant	6.50	Flocculant	6.00	Flocculant	7.25	Flocculant	7.50	Flocculant	4.00			
penetration	8.25	penetration	7.50	penetration	7.50	penetration	8.00	penetration	7.00			
refusal?	(Y) N	refusal?	(Y) N	refusal?	Y N	refusal?	(Y) N	refusal?	(Y) N			
SAV?	Y N	SAV?	Y N	SAV?	Y N	SAV?	Y N	SAV?	Y (N)			
Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	(Y) N			
Other?	(Y) N *	Other?	(Y) N *	Other?	Y N	Other?	(Y) N *	Other?	(N) N			
ft= below water surface Stations 1 to 5 from left to right while facing upstream		Lithology: like GRAY FINE SAND w/ FLOCC TRACE ORGANICS & SMELL FRAG.	Photo	yes	Lithology: BLACK FLOCC w/ GRAY FINE SAND TRACE ORGANICS TRACE SHELL FRAG.	Photo	yes	Lithology: SILTY FINE SAND w/ TRACE OF FLOCC TRACE ORGANICS TRACE SHELL FRAG.	Photo	yes	Lithology: * NO VISIBILITY	SAMPLE: HM4.5SED (date)

e.1430

SURFACE WATER	
temp (C)	24.06
conductivity (uS/cm)	3384
pH (SU)	8.11
DO (%)	74.2
ORP (mV)	137.8
turbidity (NTU)	1.52
TIME	1655
SAMPLE: HM4.5SW (date)	notes:

10/20/2015

PORE WATER	
temp (C)	24.67
conductivity (uS/cm)	5469
pH (SU)	7.35
DO (%)	24.3
ORP (mV)	-283.3
turbidity (NTU)	0.86
TIME	1655
SAMPLE: HM4.5PW (date)	notes:

10/20/2015

TRANSECT: HOMOSASSA 5.0

TRANSECT Lat 28.79253 Long -82.60863

DATE 10-21-2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK SEAWALL, HOUSE

RIGHT BANK Low Relief, WOODED

details for Y

OUTFALLS	UTILITIES
Y N	Y N
Y <u>(N)</u>	Y <u>(N)</u>
Photo	

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	5.00	Water	7.50	Water	8.50	Water	5.50	Water	3.50
Flocculant	6.25	Flocculant	9.00	Flocculant	10.00	Flocculant	7.75	Flocculant	4.50
penetration	7.00	penetration	9.50	penetration	12.00	penetration	9.00	penetration	9.50
refusal?	<u>(Y)</u> N	refusal?	<u>(Y)</u> N	refusal?	<u>(Y)</u> N	refusal?	<u>(Y)</u> N	refusal?	<u>(Y)</u> N
SAV?	Y N	SAV?	Y N	SAV?	Y N	SAV?	Y N	SAV?	Y N
Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	Y N
Other?	<u>(Y)</u> N *	Other?	<u>(Y)</u> N *	Other?	<u>(Y)</u> N *	Other?	<u>(Y)</u> N *	Other?	<u>(Y)</u> N *
ft= below water surface		Lithology:	Light Grey FINE SANDS w/ TRACE FLOCC w/ TRACE ORG & SHELL	Lithology:	Light Brown FINE SANDS w/ TRACE FLOCC TRACE ORG & SMALL FRAG	Lithology:	Light Grey FINE SAND TRACE FLOCC TRACE ORGANICS TRACE SHELL FRAG	Details for other:	* NO VISIBILITY
Stations 1 to 5		Photo	yes	Photo	yes	Photo	yes	Photo	
from left to right									
while facing upstream									

1400

© 1355

TRANSECT: HOMOSASSA 5.5
 TRANSECT Lat 28.79043 Long -82.61062
 DATE 10.21.2015

BANK OBSERVATIONS (facing upstream)
 LEFT BANK SEA WALL, HOUSE
 RIGHT BANK Low Relief, wooded
 details for Y _____
 Photo _____

OUTFALLS
 Y N
 UTILITIES
 Y N
 Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	8.50	Water	7.50	Water	8.00	Water	5.00	Water	3.25
Flocculant	10.25	Flocculant	9.50	Flocculant	10.00	Flocculant	7.50	Flocculant	5.00
penetration	10.25	penetration	10.50	penetration	11.50	penetration	10.00	penetration	7.25
refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N
SAV?	Y N	SAV?	Y N	SAV?	Y N	SAV?	Y N	SAV?	<input checked="" type="checkbox"/> N
Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	<input checked="" type="checkbox"/> N
Other?	<input checked="" type="checkbox"/> N *	Other?	<input checked="" type="checkbox"/> N *	Other?	<input checked="" type="checkbox"/> N *	Other?	<input checked="" type="checkbox"/> N *	Other?	Y <input checked="" type="checkbox"/> N
ft= below water surface		Lithology:		Lithology:		Lithology:		Details for other:	
Stations 1 to 5		BLACK FLOCC w/		LITOPORA		BLACK FLOCC		* NO	
from left to right		TRACE GRAY FINE SANDY FLOCC		TRACE ORGANIC		FINE SANDY FLOCC		VISIBILITY	
while facing upstream		TRACE ORG.		TRACE SHELL FRAG		YES			
		Photo	yes	Photo	yes	Photo	yes	SAMPLE: HM5.5SED (date)	

© 1330

SURFACE WATER	
temp (C)	24.00
conductivity (uS/cm)	3423
pH (SU)	7.90
DO (%)	87.9
ORP (mV)	65.5
turbidity (NTU)	2.38
TIME	1530
SAMPLE: HM5.5SW (date) notes:	

10/20/2015

PORE WATER	
temp (C)	24.59
conductivity (uS/cm)	4090
pH (SU)	7.68
DO (%)	23.2
ORP (mV)	-22.2
turbidity (NTU)	0.80
TIME	1530
SAMPLE: HM5.5PW (date) notes:	

10/20/2015

NEXT DOOR UP RIVER
IS:
MAGIC MANATEE MARINA

TRANSECT: HOMOSASSA 6.0
TRANSECT Lat 28.78919 Long -82.61262
DATE 10.21.2015

BANK OBSERVATIONS (facing upstream)
LEFT BANK SEA WALL, HOUSE
RIGHT BANK Low Relief, WOODED
UTILITIES
Y N
Y N
Photo

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	7.50	Water	5.00	Water	6.00	Water	6.00	Water	4.25
Flocculant	10.00	Flocculant	5.50	Flocculant	7.75	Flocculant	7.00	Flocculant	6.25
penetration	11.00	penetration	5.50	penetration	8.50	penetration	9.00	penetration	8.00
refusal?	<input checked="" type="radio"/> Y <input type="radio"/> N	refusal?	<input checked="" type="radio"/> Y <input type="radio"/> N	refusal?	<input checked="" type="radio"/> Y <input type="radio"/> N	refusal?	<input checked="" type="radio"/> Y <input type="radio"/> N	refusal?	<input checked="" type="radio"/> Y <input type="radio"/> N
SAV?	<input type="radio"/> Y <input type="radio"/> N	SAV?	<input type="radio"/> Y <input type="radio"/> N	SAV?	<input type="radio"/> Y <input type="radio"/> N	SAV?	<input type="radio"/> Y <input type="radio"/> N	SAV?	<input type="radio"/> Y <input type="radio"/> N
Algal Mat?	<input type="radio"/> Y <input type="radio"/> N	Algal Mat?	<input type="radio"/> Y <input type="radio"/> N	Algal Mat?	<input type="radio"/> Y <input type="radio"/> N	Algal Mat?	<input type="radio"/> Y <input type="radio"/> N	Algal Mat?	<input type="radio"/> Y <input type="radio"/> N
Other?	<input checked="" type="radio"/> Y <input type="radio"/> N *	Other?	<input checked="" type="radio"/> Y <input type="radio"/> N *	Other?	<input checked="" type="radio"/> Y <input type="radio"/> N *	Other?	<input checked="" type="radio"/> Y <input type="radio"/> N *	Other?	<input checked="" type="radio"/> Y <input type="radio"/> N *
ft= below water surface Stations 1 to 5 from left to right while facing upstream		Lithology: LITE GRAY FINE SAND TRACE FLOCC & ORG. TRACE SHELL FRAG SAV'S Present		Lithology: LITE GRAY FINE SAND TRACE FLOCC & ORG. TRACE SHELL FRAG		Lithology: LITE GRAY FINE SAND TRACE FLOCC TRACE ORG. ANIMAL TRACE SHELL FRAG		Details for other: * NO VISIBILITY	
Photo	yes	Photo	yes	Photo	yes	Photo	yes	SAMPLE: HM6.0SED (date)	© 1700

TRANSECT: HOMOSASSA 6.5
 TRANSECT Lat 28.78742 Long -82.61468
 DATE 10/20/2015 / 10.21.2015

BANK OBSERVATIONS (facing upstream)
 LEFT BANK SEA WALL, HOUSE
 RIGHT BANK Low Relief, wooded
 details for Y

UTILITIES	Y	N
OUTFALLS	Y	N
Photo	Y	N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	4.50	Water	5.75	Water	4.00	Water	8.00	Water	3.50
Flocculant	6.00	Flocculant	8.00	Flocculant	4.25	Flocculant	9.00	Flocculant	5.25
penetration	8.00	penetration	8.00	penetration	5.00	penetration	9.25	penetration	7.75
refusal?	<input checked="" type="radio"/> Y <input type="radio"/> N	refusal?	<input checked="" type="radio"/> Y <input type="radio"/> N	refusal?	<input checked="" type="radio"/> Y <input type="radio"/> N	refusal?	<input checked="" type="radio"/> Y <input type="radio"/> N	refusal?	<input checked="" type="radio"/> Y <input type="radio"/> N
SAV?	<input type="radio"/> Y <input type="radio"/> N	SAV?	<input type="radio"/> Y <input type="radio"/> N	SAV?	<input checked="" type="radio"/> Y <input type="radio"/> N	SAV?	<input type="radio"/> Y <input type="radio"/> N	SAV?	<input checked="" type="radio"/> Y <input type="radio"/> N
Algal Mat?	<input type="radio"/> Y <input type="radio"/> N	Algal Mat?	<input type="radio"/> Y <input type="radio"/> N	Algal Mat?	<input checked="" type="radio"/> Y <input type="radio"/> N	Algal Mat?	<input type="radio"/> Y <input type="radio"/> N	Algal Mat?	<input checked="" type="radio"/> Y <input type="radio"/> N
Other?	<input checked="" type="radio"/> Y <input type="radio"/> N *	Other?	<input checked="" type="radio"/> Y <input type="radio"/> N *	Other?	<input type="radio"/> Y <input checked="" type="radio"/> N *	Other?	<input checked="" type="radio"/> Y <input type="radio"/> N *	Other?	<input type="radio"/> Y <input checked="" type="radio"/> N *
ft= below water surface		Lithology:	Light Grey FINE SAND	Lithology:	Light Grey FINE SAND	Lithology:	Light Grey FINE SAND	Lithology:	* NO Visibility
Stations 1 to 5		Lithology:	TRACE ORG. & FLOCC	Lithology:	TRACE FLOCC & ORG.	Lithology:	TRACE FLOCC & ORG.	Details for other:	
from left to right		Lithology:	TRACE SHELL FRAG	Lithology:	TRACE SHELL FRAG	Lithology:	TRACE SHELL FRAG		
while facing upstream		Photo	yes	Photo	yes	Photo	yes	SAMPLE: HM6.5SED (date)	

10-21-2015
 10.20.2015

SURFACE WATER	
temp (C)	24.14
conductivity (uS/cm)	5071
pH (SU)	7.69
DO (%)	17.7
ORP (mV)	mg/L 1.45
turbidity (NTU)	-75.3
TIME	0.25
SAMPLE: HM6.5SW (date)	1457
notes:	

PORE WATER	
temp (C)	24.14
conductivity (uS/cm)	5071
pH (SU)	7.69
DO (%)	17.7
ORP (mV)	mg/L 1.45
turbidity (NTU)	-75.3
TIME	0.25
SAMPLE: HM6.5PW (date)	1457
notes:	

10/20/2015

10/20/2015

SMALL RAIN DRAIN (Appears)

BANK OBSERVATIONS (facing upstream)

LEFT BANK Sea Wall, Low Relief, Houses

RIGHT BANK Low Relief, Houses

UTILITIES

Y N

Y N

Photo

TRANSECT: HOMOSASSA 7.0

TRANSECT Lat 20.70648 Long -82.61652

DATE 10-21-2015

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	4.00	Water	3.50	Water	10.50	Water	11.50	Water	7.50
Flocculant penetration	6.00	Flocculant penetration	5.50	Flocculant penetration	11.25	Flocculant penetration	12.00	Flocculant penetration	8.75
refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N	refusal?	<input checked="" type="radio"/> N
SAV?	<input checked="" type="radio"/> N	SAV?	Y N	SAV?	Y N	SAV?	Y N	SAV?	Y N
Algal Mat?	<input checked="" type="radio"/> N	Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	Y N
Other?	Y <input checked="" type="radio"/> N	Other?	<input checked="" type="radio"/> N *	Other?	<input checked="" type="radio"/> N *	Other?	<input checked="" type="radio"/> N *	Other?	<input checked="" type="radio"/> N *
ft= below water surface Stations 1 to 5 from left to right while facing upstream		Lithology: <u>Grey FINE SAND w/ FLOCC SAV'S present FINE TRACE ORGANICS</u>		Lithology: <u>GREY FINE SAND w/ FLOCC AND STEEL FLAKES</u>		Lithology: <u>BLACK FLOCC TRACE ORGANICS shell frag. Pres.</u>		Details for other: <u>* NO VISIBILITY</u>	
		Photo	yes	Photo	yes	Photo	yes	SAMPLE: HM7.05ED (date)	

@ 1030

TRANSECT: HOMOSASSA 7.5

TRANSECT Lat 28.78512 Long -82.61962
 DATE 10.20.2015 / 10.21.2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Low Relief, MARINA
 RIGHT BANK Low Relief, Dock - Lodge
 details for Y

OUTFALLS

N
 N

UTILITIES
 N
 N

Photo yes

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	3.75	Water	3.50	Water	6.25	Water	9.75	Water	10.00
Flocculant	5.00	Flocculant	3.75	Flocculant	8.25	Flocculant		Flocculant	11.00
penetration	5.75	penetration	6.25	penetration	8.25	penetration	9.75	penetration	11.00
refusal?	Y N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N
SAV?	Y <input checked="" type="checkbox"/> N	SAV?	Y <input checked="" type="checkbox"/> N	SAV?	Y N	SAV?	Y N	SAV?	Y N
Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	Y N
Other?	Y <input checked="" type="checkbox"/> N	Other?	Y <input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N *	Other?	<input checked="" type="checkbox"/> N *	Other?	<input checked="" type="checkbox"/> N
ft= below water surface Stations 1 to 5 from left to right while facing upstream		Lithology: BLACK FLOCC TRACE GRAY FINE SAND TRACE ORGANICS (no shell)		Lithology: BLACK FLOCC. w/ GRAY FINE SAND TRACE ORGANICS TRACE SHELL FRAG		Lithology: BLACK FLOCC TRACE ORGANICS SHELL FRAG. Present		Details for other: * NO VISIBILITY	
Photo	yes	Photo	yes	Photo	yes	Photo	yes	SAMPLE: HM7.5SED (date)	

SURFACE WATER	
temp (C)	23.90
conductivity (uS/cm)	4620
pH (SU)	7.81
DO (%)	74.0
ORP (mV)	200.7
turbidity (NTU)	1.59
TIME	1415
SAMPLE: HM7.5SW (date)	notes:

10/20/2015

PORE WATER	
temp (C)	23.67
conductivity (uS/cm)	4696
pH (SU)	7.86
DO (%)	69.6
ORP (mV)	193.7
turbidity (NTU)	8.40
TIME	1415
SAMPLE: HM7.5PW (date)	notes:

10/20/2015

TRANSECT: HOMOSASSA 8.0
 TRANSECT Lat 28.78302 Long -82.62131
 DATE 10-20-2015 10-21-2015

BANK OBSERVATIONS (facing upstream)
 LEFT BANK SEA WALL, HOUSES
 RIGHT BANK SEA WALL, HOUSES
 details for Y _____
 Photo _____

OUTFALLS
 Y N
 Y N
 UTILITIES
 Y N
 Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	<u>4.50</u>	Water	<u>8.00</u>	Water	<u>12.00</u>	Water	<u>6.75</u>	Water	<u>4.00</u>
Flocculant	<u>5.00</u>	Flocculant	<u>8.00</u>	Flocculant	<u>14.25</u>	Flocculant	<u>9.00</u>	Flocculant	<u>7.00</u>
penetration	<u>6.75</u>	penetration	<u>8.00</u>	penetration	<u>15.00</u>	penetration	<u>11.00</u>	penetration	<u>8.00</u>
refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N
SAV?	<input type="checkbox"/> N	SAV?	<input type="checkbox"/> N	SAV?	<input type="checkbox"/> N	SAV?	<input type="checkbox"/> N	SAV?	<input type="checkbox"/> N
Algal Mat?	<input type="checkbox"/> N	Algal Mat?	<input type="checkbox"/> N	Algal Mat?	<input type="checkbox"/> N	Algal Mat?	<input type="checkbox"/> N	Algal Mat?	<input type="checkbox"/> N
Other?	<input checked="" type="checkbox"/> <u>NO visibility</u>	Other?	<input checked="" type="checkbox"/> <u>NO visibility</u>	Other?	<input type="checkbox"/> <u>NO visibility</u>	Other?	<input checked="" type="checkbox"/> <u>NO visibility</u>	Other?	<input checked="" type="checkbox"/> <u>NO visibility</u>
ft= below water surface		Lithology:	<u>BLACK FLOCC. TRACE ORGANICS Heavy shell frag present</u>	Lithology:	<u>BLACK FLOCC. TRACE ORGANICS shell frag. present</u>	Lithology:	<u>BLACK FLOCC. TRACE ORGANICS shell frag. present</u>	Details for other:	<u>* NO visibility</u>
Stations 1 to 5 from left to right while facing upstream		Photo	<u>yes</u>	Photo	<u>yes</u>	Photo	<u>yes</u>	SAMPLE: HM8.0SED (date)	<u>0935</u>

TRANSECT: HOMOSASSA 9.0

TRANSECT Lat 28.70349 Long -82.62565

DATE 10.19.2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Sea Wall, house

RIGHT BANK Sea Wall, House

details for Y

OUTFALLS

Y N

Y N

Photo

UTILITIES

Y N

Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	6.50	Water	5.00	Water	8.50	Water	9.00	Water	5.00
Flocculant	9.50	Flocculant	-	Flocculant	9.00	Flocculant	11.50	Flocculant	
penetration	10.00	penetration	5.00	penetration	9.00	penetration	12.00	penetration	5.00
refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N
SAV?	Y N	SAV?	Y N	SAV?	Y N	SAV?	Y N	SAV?	Y N
Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	<input checked="" type="checkbox"/> N
Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N
ft= below water surface		Lithology:	Black Flocculant	Lithology:	Black Flocculant	Lithology:	Black Flocculant	Details for other:	Rock & shell
Stations 1 to 5		Black FLOCCULANT	ORGANICS	Black FLOCCULANT	Trace organics	Black FLOCCULANT	Trace organics	Present	
from left to right		Photo	yes	Photo	yes	Photo	yes	Photo	
while facing upstream		Photo	yes	Photo	yes	Photo	yes	SAMPLE: HM9.05ED (date)	

TRANSECT: HOMOSASSA 9.5

TRANSECT Lat 28.78357 Long -82.42746

DATE 10-19-2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Sea Wall, House

RIGHT BANK Sea Wall, House

details for Y

OUTFALLS

Y N

Y N

Photo

UTILITIES

Y N

Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	6.00	Water	6.50	Water	3.00	Water	3.50	Water	3.50
Flocculant	9.25	Flocculant	9.00	Flocculant	9.00	Flocculant	3.25	Flocculant	3.50
penetration	9.25	penetration	10.50	penetration	9.00	penetration	3.25	penetration	3.50
refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N
SAV?	Y N	SAV?	Y N	SAV?	Y N	SAV?	Y <input checked="" type="checkbox"/> N	SAV?	Y <input checked="" type="checkbox"/> N
Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N
Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> NO visibility	Other?	<input checked="" type="checkbox"/> NO visibility	Other?	<input checked="" type="checkbox"/> N	Other?	<input checked="" type="checkbox"/> N shells
ft= below water surface		Lithology:	Black Flocculant	Lithology:	Black Flocculant	Lithology:	Grey Fine SAND Heavy Flocc Trace organics shells	Details for other:	shells present
Stations 1 to 5		Photo	yes	Photo	yes	Photo	yes	SAMPLE: HM9.5SED (date)	
from left to right									
while facing upstream									

NO visibility

1400

SURFACE WATER	
temp (C)	22.95
conductivity (uS/cm)	4420
pH (SU)	7.65
DO (%)	73.9
ORP (mV)	mg/L 6.20 219.1
turbidity (NTU)	1.66
TIME	1405
SAMPLE: HM9.5SW (date)	notes:

PORE WATER	
temp (C)	23.03
conductivity (uS/cm)	5207
pH (SU)	7.55
DO (%)	mg/L 1.49 17.9
ORP (mV)	58.8
turbidity (NTU)	7.01
TIME	1425
SAMPLE: HM9.5PW (date)	notes:

TRANSECT: HOMOSASSA 10.0

TRANSECT Lat 28.7837 Long -82.62954

DATE 10.19.2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK Sea Wall, - Houses

RIGHT BANK Low Relief, Sea Dunes

details for Y _____

OUTFALLS

Y N

Y N

Photo _____

UTILITIES

Y N

Y N

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)
Water	2.00	Water	7.50	Water	4.25	Water	2.25	Water	2.25
Flocculant	2.00	Flocculant	8.25	Flocculant	4.25	Flocculant	3.25	Flocculant	4.00
penetration	2.00	penetration	8.25	penetration	4.25	penetration	3.25	penetration	5.00
refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N
SAV?	Y <input checked="" type="checkbox"/> N	SAV?	Y N	SAV?	Y <input checked="" type="checkbox"/> N	SAV?	Y <input checked="" type="checkbox"/> N	SAV?	Y <input checked="" type="checkbox"/> N
Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	Y N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N	Algal Mat?	<input checked="" type="checkbox"/> N
Other?	<input checked="" type="checkbox"/> N shells	Other?	<input checked="" type="checkbox"/> N ^{no} visibility	Other?	Y <input checked="" type="checkbox"/> N	Other?	Y <input checked="" type="checkbox"/> N	Other?	Y <input checked="" type="checkbox"/> N
ft= below water surface		Lithology:	BLACK FLOCCULANT	Lithology:	GRAY FINE SILT	Lithology:	TAN FINE SAND	Details for other:	
Stations 1 to 5			TRACE ORGANICS		FLOCCULANT		TRACE FLOCCULANT silt		
from left to right			some shells		TRACE ORGANICS shells		TRACE ORGANICS shells		
while facing upstream		Photo	yes	Photo	yes	Photo	yes	SAMPLE: HM10.0SED (date)	© 1315



Zero visibility

TRANSECT: HOMOSASSA 10.5

TRANSECT Lat 28.7841 Long -82.63159

DATE 10-19-2015

BANK OBSERVATIONS (facing upstream)

LEFT BANK SEA WALL - HOUSING

RIGHT BANK Low Relief, TALL GRASSES

details for Y

OUTFALLS

Y N

Y N

Photo yes

side RIGHT

STATION 1	Bottom (ft)	STATION 2	Bottom (ft)	STATION 3	Bottom (ft)	STATION 4	Bottom (ft)	STATION 5	Bottom (ft)	
Water	4.50	Water	8.00	Water	6.50	Water	3.50	Water	3.00	
Flocculant	8.00	Flocculant	11.00	Flocculant	11.00	Flocculant	8.50	Flocculant	5.50	
penetration	9.00	penetration	11.50	penetration	11.00	penetration	9.00	penetration	9.50	
refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	refusal?	<input checked="" type="checkbox"/> N	
SAV?	Y N	SAV?	Y N	SAV?	Y N	SAV?	Y N	SAV?	Y <input checked="" type="checkbox"/> N	
Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	Y N	Algal Mat?	<input checked="" type="checkbox"/> N	
Other?	<input checked="" type="checkbox"/> N ^{no} visibility	Other?	<input checked="" type="checkbox"/> N ^{no} visibility	Other?	<input checked="" type="checkbox"/> N ^{no} visibility	Other?	<input checked="" type="checkbox"/> N ^{no} visibility	Other?	<input checked="" type="checkbox"/> N	
ft= below water surface		Lithology:	BLACK FLOCC TRACE ORGANICS	Lithology:	BLACK FLOCC TRACE ORGANICS Full shells	Lithology:	BLACK FLOCC TRACE ORGANICS Full shells	Details for other:		
Stations 1 to 5		Photo	yes	Photo	yes	Photo	yes	SAMPLE: HM10.5SED (date) @ 1055		
while facing upstream		STATION 2, 3, 4: LEGION CONES HAD VERY LOW RECOVERY								

SURFACE WATER	
temp (C)	22.54
conductivity (uS/cm)	4846
pH (SU)	6.65
DO (%)	82.9
ORP (mV)	263.1
turbidity (NTU)	2.23
TIME	1130
SAMPLE: HM10.5SW (date) notes:	

PORE WATER	
temp (C)	23.69
conductivity (uS/cm)	4874
pH (SU)	7.21
DO (%)	55.5
ORP (mV)	58.9
turbidity (NTU)	5.88
TIME	1130
SAMPLE: HM10.5PW (date) notes:	

Very difficult to pull sample w/ so much flocculant

APPENDIX B

Laboratory Reports





November 20, 2015 (updated November 30, 2015)

Ms. KT Moran, PG
Arcadis-U.S., Inc.
14025 Riveredge Drive, Suite 600
Tampa, Florida 33637

Subject: SWFWMD River Sediment Analysis
MC Squared Project No. T031522.076

Dear Ms. Moran:

MC Squared, Inc. (MC²) has completed selected geotechnical laboratory testing in general accordance with the subcontract agreement dated August 10, 2015. Specific soil samples and directions regarding the type of tests required for each sample were provided by Arcadis personnel.

Two soil samples (CZ 10.0 SED and WW 10.0 SED) were previously tested and the results were shared through a letter report dated September 29, 2015. These results are also appended to this letter report. Based upon recent e-mail and telephone correspondence from your office, we have been informed that a total of 40 samples are to be tested (including the two samples completed previously).

Accordingly, we coordinated and picked up the soil samples from Arcadis' representative. The samples collected in zip lock plastic bags by Arcadis were transported to our Tampa lab by MC² personnel. We received three different sets of soil samples for the geotechnical laboratory analysis. Each set of soil samples had a prefix of CZ (Chassahowitzka River) or HM (Homosassa River) or WW (Weeki Wachee River). A total of 18 CZ, 12 HM, and 10 WW samples were tested at our laboratory. The bags were identified by Arcadis with a two letter suffix (CZ or HM or WW) followed by the transect. Laboratory testing was then assigned to the samples per specific direction provided by Arcadis. Where the visual classification did not indicate plastic soils, Atterberg limit testing was avoided and the results recorded as non-plastic (NP).

A summary of the laboratory tests and sample identification is appended to this letter report. A general description of each laboratory test method is presented below.

Moisture Content

The laboratory moisture content test consists of determining the percentage of moisture content in selected samples in general accordance with ASTM test designation D-2216. Briefly, natural moisture content is determined by weighing a sample of the selected material and then drying it in a warm oven. Care is taken to use a gentle heat so as not to destroy any organics. The sample is removed from the oven and reweighed. The difference of the two weights is the amount of moisture removed from the sample. The weight of the moisture divided by the weight of the dry soil sample is the percentage by weight of the moisture in the sample.

Organic Content

The laboratory organic content test consists of drying the soil sample, then heating it in a small furnace to a minimum temperature of 400 degrees Centigrade for 6 hours. The high heat burns off all organic material, leaving only the soil minerals. The difference in the weight prior to and after the burning is the weight of the organics. The weight of the organics divided by the weight of the dried soil is the percentage of the organics within a sample. The organic content testing procedure was conducted in general accordance with ASTM D2974 "Standard Test Methods for Moisture, Ash, and Organic Matter of Peat and Other Organic Soils".

Grain-Size Analysis (-200 Sieve) and Full Gradation

The wash gradation test measures the percentage of a dry soil sample passing the No. 200 sieve. By definition in the Unified Soil Classification System, the percentage by weight passing the No. 200 sieve is the silt and clay content. The amount of silt and clay in a soil influences properties, including permeability, workability and suitability as fill. This test was performed in general accordance with ASTM D-1140 (Standard Test Methods for Amount of Material Finer than the No. 200 (75 μ m) Sieve).

After washing the sample over the No. 200 sieve the residual soils retained are dried and passed through a series of varying sized screens to provide a breakdown of the soil grain sizes. A portion of the material passing the No, 200 sieve is used in the hydrometer test which defines the portion of the sample that is silt sized and clay sized. The test was performed in general accordance with ASTM D-422 (Particle Size Analysis for Soils). Grain size graphs for each sample are attached.

Atterberg Limits

The liquid limit and the plastic limit tests ("Atterberg Limits") were conducted in general accordance with ASTM test designation D-4318. Atterberg plastic limit and liquid limit tests measure the moisture content at which a fine-grained soil changes from a semi-solid to plastic state and from a plastic to a liquid state, respectively. The plasticity index is the difference between the liquid and plastic limits. The plasticity index is a rough

Ms. KT Moran, PG
Arcadis-U.S., Inc.
SWFWMD River Sediment Analysis
MC Squared Project No. T031522.076

indication of the tendency of a soil to absorb water on the particle surfaces. Some clays have a strong affinity for water, and tend to swell when wetted and shrink when dried. The larger the plasticity index, the greater the shrink-swell tendency.

Specific Gravity

The laboratory specific gravity test consists of using a portion of a soil sample passing the No. 10 sieve, weighing the sample and then submerging the soil sample in water in a specific volume pycnometer and removing the air using a vacuum pump. The weight of the soil and water are determined and the specific gravity is calculated. The test was conducted in general accordance with ASTM D858 "Standard Test Method for Specific Gravity of Soils".

A summary of the laboratory tests along with each individual lab test results are appended to this report.

It has been a pleasure working with you on this project. If you have any questions about the test results please notify us.

Respectfully submitted,



Prashanth Vaddu, PE
Project Manager
Florida License No. 75144



Rees Nickerson, PE
Chief Engineer
Florida License No. 35792



Haitham Moussly
VP/Florida Operations Manager

Attachments:

Laboratory Testing Legend
Summary of Laboratory Tests
Grain Size Analysis Graphs (Including Hydrometer Test Data)
Atterberg Limits Test Results
Lab Results for CZ 10.0 and WW 10.0 (tests completed as a part of September 2015 submittal)

LABORATORY TESTING LEGEND

Sample no./labelling “**CZ 0.5**” - CZ - River name and 0.5 - transect

CZ - Chassahowitzka River

HM - Homosassa River

WW - Weeki Wachee River

USCS – Unified Soil Classification System

% Fines – Percentage of total soil (by weight) finer than US Standard sieve no. 200

NMC – Natural Moisture Content in percent – (Tested in accordance with ASTM D2216)

LL – Liquid Limit in percent - (Tested in accordance with ASTM D4318)

PL – Plastic Limit in percent - (Tested in accordance with ASTM D4318)

PI – Plasticity Index in percent - (Tested in accordance with ASTM D4318)

NP – Non-plastic - (Tested in accordance with ASTM D4318)

Cc – Coefficient of Curvature = $((D_{230}^2) / (D_{60} \times D_{10}))$

Cu- Uniformity Coefficient = (D_{60}/D_{10})

D_{100/60/30/10} – soil particle diameters corresponding to 100%, 60%, 30%, and 10% respectively finer on the cumulative particle-size (grain-size) distribution curve - (Tested in accordance with ASTM D422 and ASTM D1140)

Sp. Gr. – Specific Gravity (Tested in accordance with ASTM D858)

Org. Cont. – Organic Content in percent (Tested in accordance with ASTM D2974)

SP – Sand

SP-SM – Sand with Silt

SP-SC – Sand with Clay

SM - Silty Sand

SC – Clayey Sand

CL, CH – Clay

ML, MH - Silt

C - Coarse

M - Medium

F - Fine



MC Squared, Inc.
1275 Shiloh Road, Suite 2620
Kennesaw, GA 30144

SUMMARY OF LABORATORY RESULTS

CLIENT Arcadis U.S., Inc.

PROJECT NAME SWFWMD River Sediment Analysis

PROJECT NUMBER T031522.076

PROJECT LOCATION Chassahowitzka / Homosassa / Weeki Wachee Rivers

Sample No.	Soil Description	USCS Class.	% of Total Soil (by weight) passing U.S. Standard Sieve Nos.								N M C (%)	LL (%)	PL (%)	PI (%)	Sp. Gr.	Org. Cont. (%)
			1"	#4	#10	#20	#40	#60	#100	#200						
CZ 0.5 SED	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM			100	100	98	89	69	6	39.0	NP	NP	NP	2.60	2.0
CZ 1.0 SED	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM			100	100	96	81	51	6	36.4	NP	NP	NP	2.60	1.9
CZ 1.5 SED	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM			100	100	96	80	56	7	49.8	NP	NP	NP	2.64	1.4
CZ 2.0 SED	Brown, dark gray fine SAND (SP)	SP			100	100	95	80	55	4	35.8	NP	NP	NP	2.62	1.8
CZ 2.5 SED	Brown, dark gray medium to fine SAND with silt (SP- SM)	SP-SM			100	100	94	78	57	9	67.5	NP	NP	NP	2.60	3.0
CZ 3.0 SED	Brown, dark gray fine SAND (SP)	SP			100	100	97	84	52	4	43.4	NP	NP	NP	2.65	1.5
CZ 3.5 SED	Brown, dark gray silty fine SAND (SM)	SM			100	100	98	90	72	16	86.6	NP	NP	NP	2.58	4.4
CZ 4.0 SED	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM			100	99	97	89	69	11	114.4	NP	NP	NP	2.55	6.0
CZ 4.5 SED	Brown, dark gray fine SAND (SP)	SP			100	100	94	78	55	5	38.4	NP	NP	NP	2.61	1.2
CZ 5.0 SED	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM			100	100	95	81	57	8	37.4	NP	NP	NP	2.64	2.3
CZ 5.5 SED	Brown, dark gray fine SAND (SP)	SP			100	100	96	84	66	4	36.7	NP	NP	NP		
CZ 6.0 SED	Brown, dark gray fine SAND (SP)	SP			100	100	94	77	59	3	26.5	NP	NP	NP	2.67	0.8
CZ 6.5 SED	Brown, dark gray fine SAND (SP)	SP			100	100	97	87	71	4	27.0	NP	NP	NP		
CZ 7.0 SED	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM			100	100	97	86	66	5	26.7	NP	NP	NP	2.61	1.0
CZ 7.5 SED	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM			100	100	97	88	61	7	54.6	NP	NP	NP	2.60	2.0
CZ 8.0 SED	Brown, dark gray silty fine SAND (SM)	SM			100	99	96	85	69	15	76.7	NP	NP	NP	2.57	4.3
CZ 8.5 SED	Brown, dark gray silty fine SAND (SM)	SM			100	99	98	90	70	15	89.8	NP	NP	NP	2.56	5.0
CZ 9.0 SED	Brown, dark gray medium to fine SAND with silt (SP- SM)	SP-SM			100	100	95	80	57	8	45.7	NP	NP	NP	2.63	2.4
CZ 9.5 SED	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM			100	100	96	85	59	11	62.2	NP	NP	NP	2.58	3.5
CZ 10.0 SED	Dark C to F SAND with silt and shell (SP-SM)	SP-SM	100	73	60	59	56	48	40	10	67.8	NP	NP	NP	2.47	4.8
HM 1.5 SED	Brown, dark gray fine SAND (SP)	SP		100	100	100	99	95	74	4	58.4	NP	NP	NP	2.64	1.4
HM 2.5 SED	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM			100	100	98	93	71	6	63.9	NP	NP	NP	2.62	2.5
HM 3.5 SED	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM			100	100	99	94	76	10	68.0	NP	NP	NP	2.60	2.6
HM 4.5 SED	Brown, dark gray fine SAND (SP)	SP			100	100	98	92	71	5	46.8	NP	NP	NP	2.66	1.8
HM 5.5 SED	Brown, dark gray silty fine SAND (SM)	SM			100	100	99	96	84	15	96.3	NP	NP	NP	2.56	4.5
HM 6.0 SED	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM		100	100	100	99	96	83	8	45.6	NP	NP	NP	2.62	1.7
HM 6.5 SED	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM			100	100	99	94	80	9	49.5	NP	NP	NP	2.62	2.1
HM 7.0 SED	Brown, dark gray silty fine SAND (SM)	SM			100	99	98	95	82	24	129.0	NP	NP	NP	2.53	6.5
HM 7.5 SED	Brown, dark gray silty fine SAND (SM)	SM		100	99	99	99	96	81	14	92.0	NP	NP	NP	2.61	2.3
HM 8.5 SED	Brown, dark gray silty fine SAND (SM)	SM			100	100	99	97	72	25	97.8	NP	NP	NP	2.55	5.2



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SUMMARY OF LABORATORY RESULTS

CLIENT Arcadis U.S., Inc.

PROJECT NAME SWFWMD River Sediment Analysis

PROJECT NUMBER T031522.076

PROJECT LOCATION Chassahowitzka / Homosassa / Weeki Wachee Rivers

Sample No.	Soil Description	USCS Class.	% of Total Soil (by weight) passing U.S. Standard Sieve Nos.								N M C (%)	LL (%)	PL (%)	PI (%)	Sp. Gr.	Org. Cont. (%)
			1"	#4	#10	#20	#40	#60	#100	#200						
HM 9.5 SED	Brown, dark gray silty fine SAND (SM)	SM		100	100	100	99	97	87	29	124.9	NP	NP	NP	2.50	7.5
HM 10.0 SED	Brown, dark gray silty fine SAND (SM)	SM		100	100	100	99	95	83	20	73.1	NP	NP	NP	2.61	3.8
WW 1.5 SED	Brown, dark gray fine SAND with silt (SP- SM)	SP-SM		100	97	97	95	83	51	8	50.2	NP	NP	NP	2.64	1.3
WW 2.5 SED	Brown, dark gray fine SAND (SP)	SP		100	99	98	96	87	38	3	23.0	NP	NP	NP	2.66	0.2
WW 3.5 SED	Brown, dark gray M to F SAND (SP)	SP		100	99	99	92	37	10	2	22.2	NP	NP	NP	2.66	0.2
WW 4.5 SED	Brown, dark gray M to F SAND (SP)	SP		100	100	100	94	58	25	2	24.6	NP	NP	NP	2.66	0.2
WW 5.25 SED	Brown, dark gray fine SAND (SP)	SP		100	99	99	95	67	20	2	25.0	NP	NP	NP	2.69	0.3
WW 5.5 SED	Brown, dark gray fine SAND (SP)	SP		100	100	100	95	55	14	2	23.1	NP	NP	NP	2.69	0.2
WW 6.5 SED	Brown, dark gray fine SAND (SP)	SP		100	99	98	96	82	41	3	36.8	NP	NP	NP	2.63	0.8
WW 7.5 SED	Brown, dark gray fine SAND (SP)	SP		100	99	99	91	57	14	2	28.9	NP	NP	NP	2.66	0.3
WW 8.5 SED	Brown, dark gray M to F SAND (SP)	SP		100	100	100	94	63	21	2	21.9	NP	NP	NP	2.68	0.4
WW 10.0 SED	White fine SAND (SP)	SP				100	100	95	62	4	13.2	NP	NP	NP	2.71	0.3



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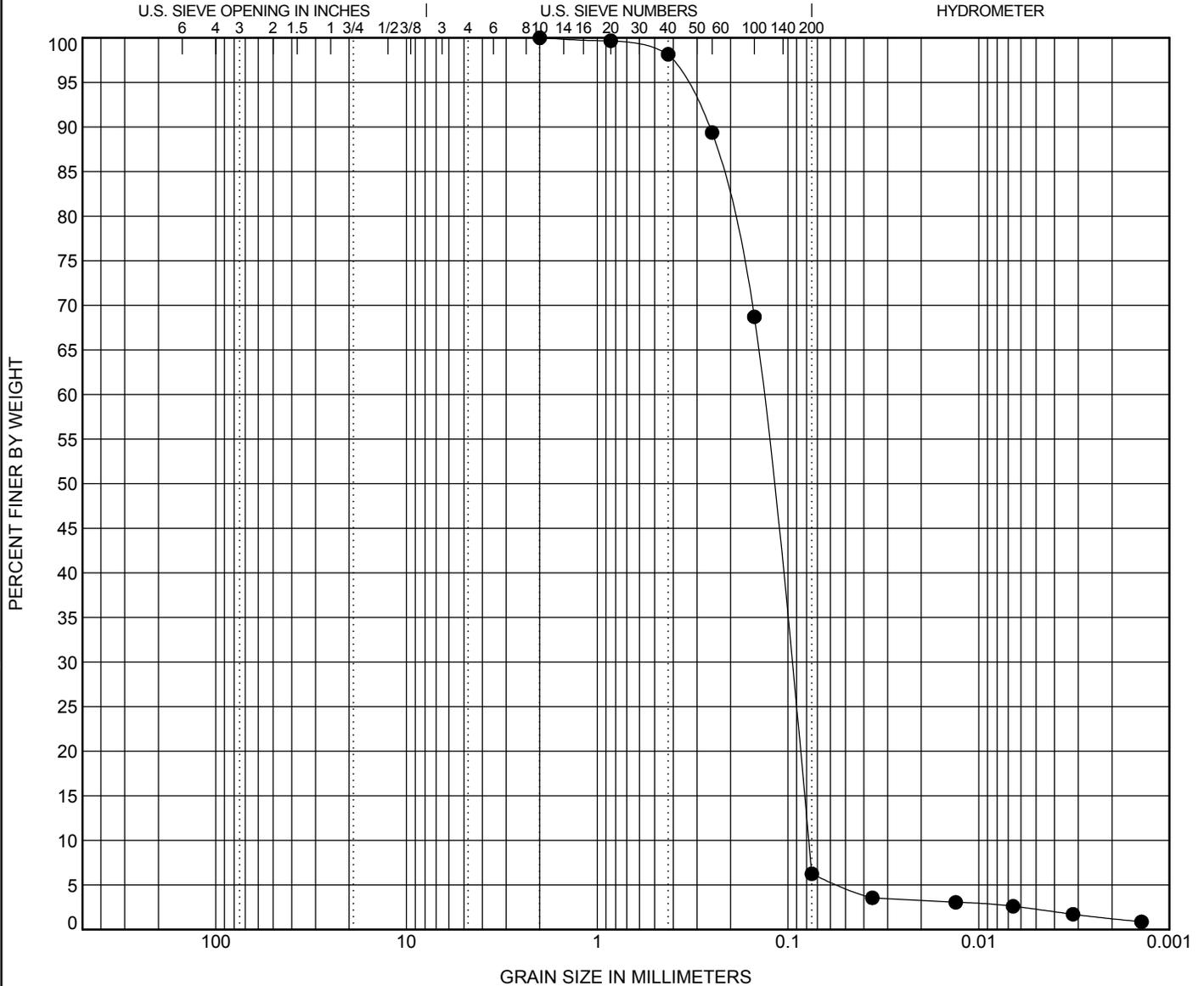
GRAIN SIZE DISTRIBUTION

CLIENT Arcadis U.S., Inc.

PROJECT NAME SWFWMD River Sediment Analysis

PROJECT NUMBER T031522.076

PROJECT LOCATION Chassahowitzka / Homosassa / Weeki Wachee Rivers



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification					LL	PL	PI	Cc	Cu
● CZ 0.5 SED	Brown, dark gray fine SAND with silt (SP- SM)					NP	NP	NP	0.89	1.74
Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay	
● CZ 0.5 SED	2	0.136	0.098	0.078	39.0	0.0	93.8	4.0	2.3	

Note-Sample soaked for 16 hrs (+/- 10 min)

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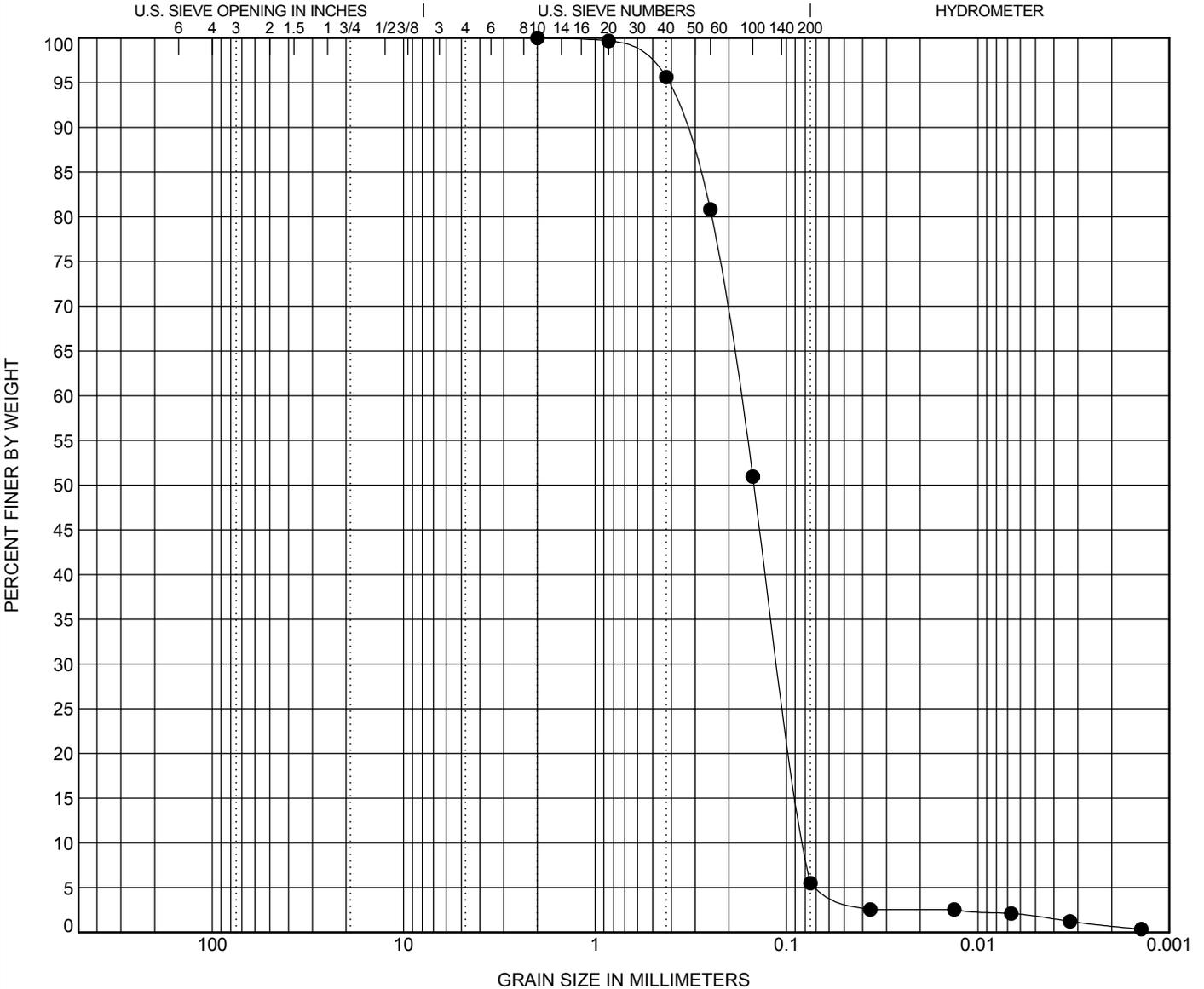
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● CZ 1.0 SED	Brown, dark gray fine SAND with silt (SP- SM)	NP	NP	NP	0.84	2.18

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● CZ 1.0 SED	2	0.175	0.109	0.08	36.4	0.0	94.5	3.8	1.7

Note-Sample soaked for 16 hrs (+/- 10 min)



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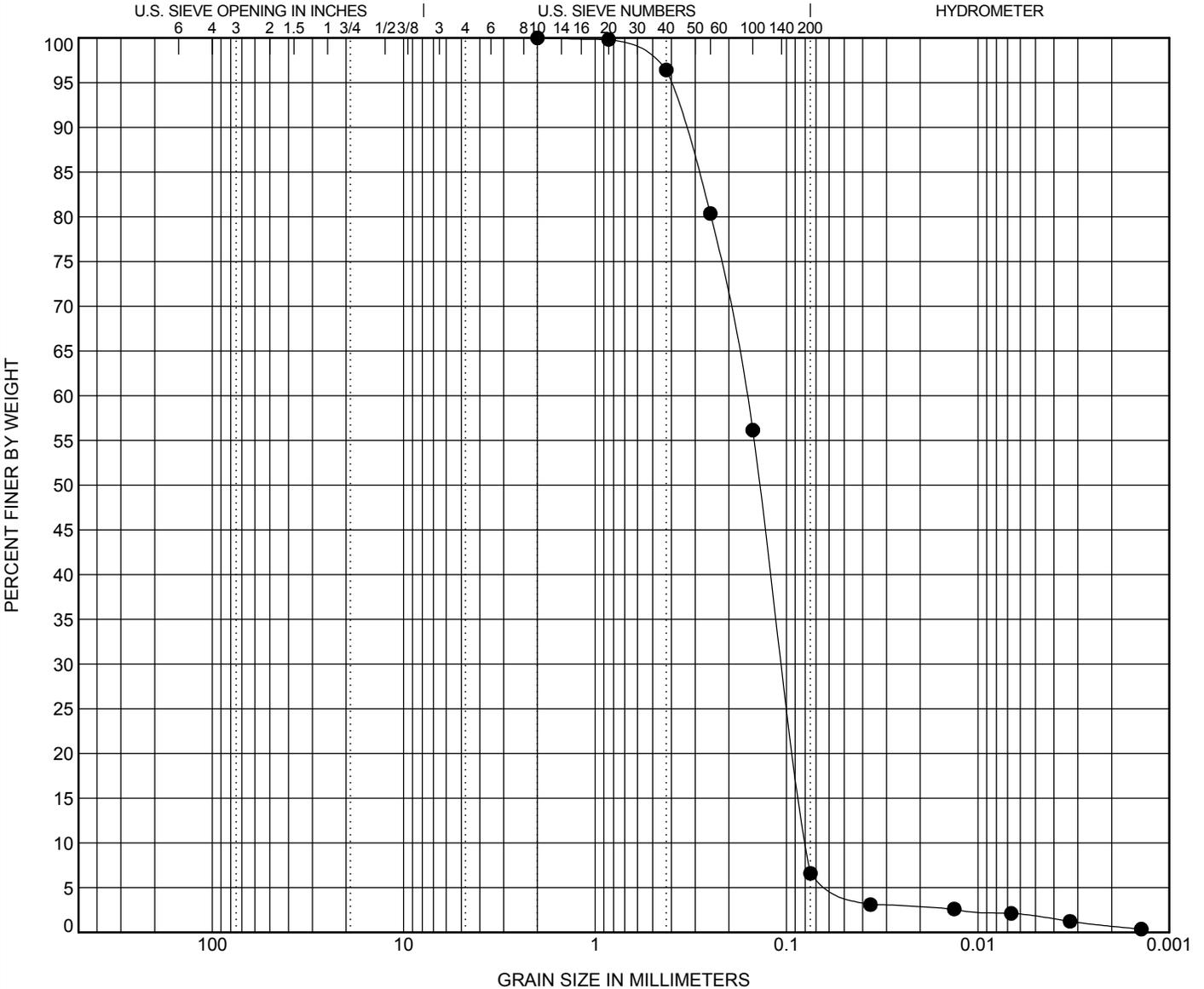
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● CZ 1.5 SED	Brown, dark gray fine SAND with silt (SP- SM)	NP	NP	NP	0.85	2.07

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● CZ 1.5 SED	2	0.163	0.104	0.079	49.8	0.0	93.4	4.8	1.8

Note-Sample soaked for 16 hrs (+/- 10 min)



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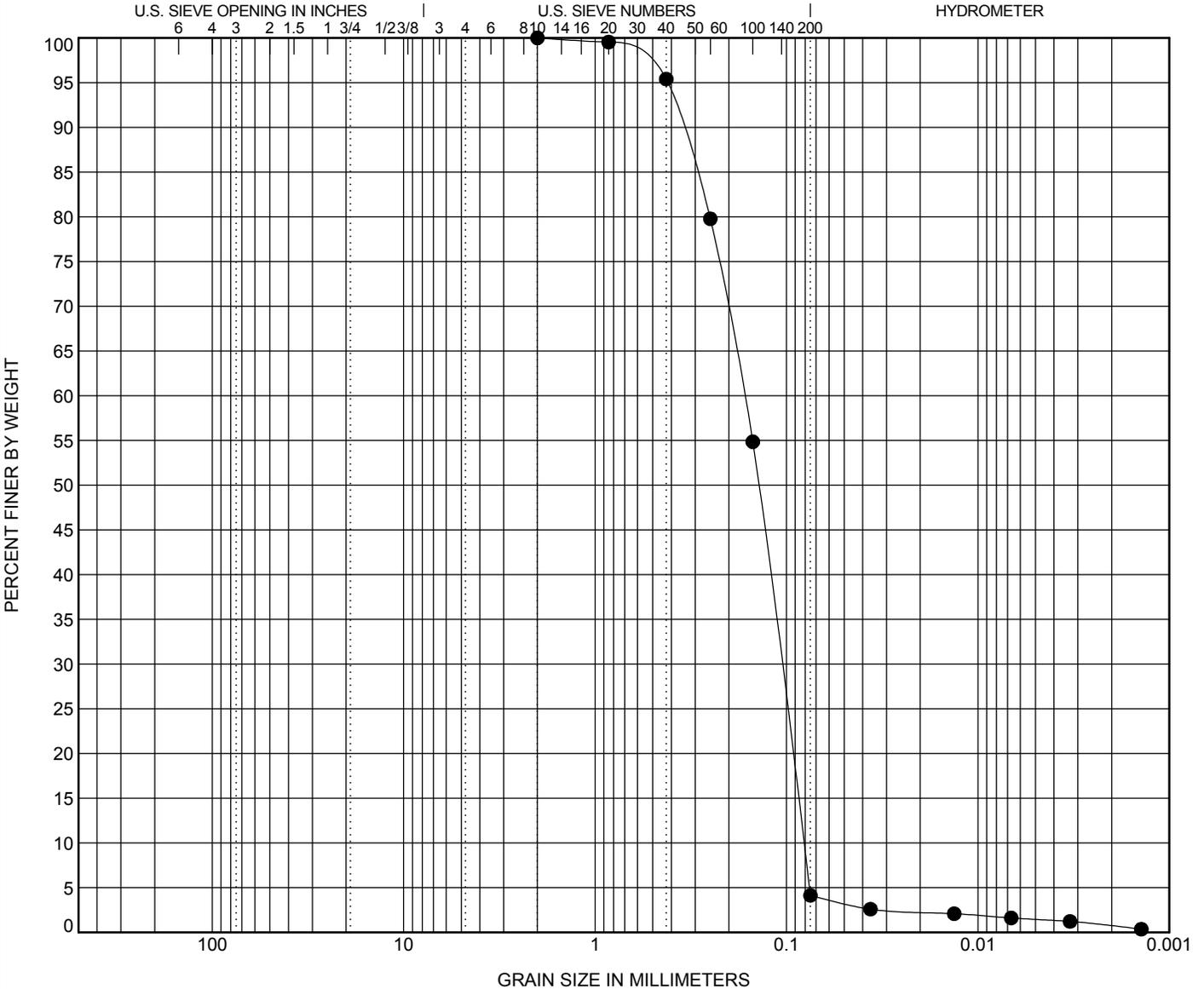
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● CZ 2.0 SED	Brown, dark gray fine SAND (SP)	NP	NP	NP	0.84	2.05

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● CZ 2.0 SED	2	0.167	0.107	0.081	35.8	0.0	95.9	2.7	1.4

Note-Sample soaked for 16 hrs (+/- 10 min)



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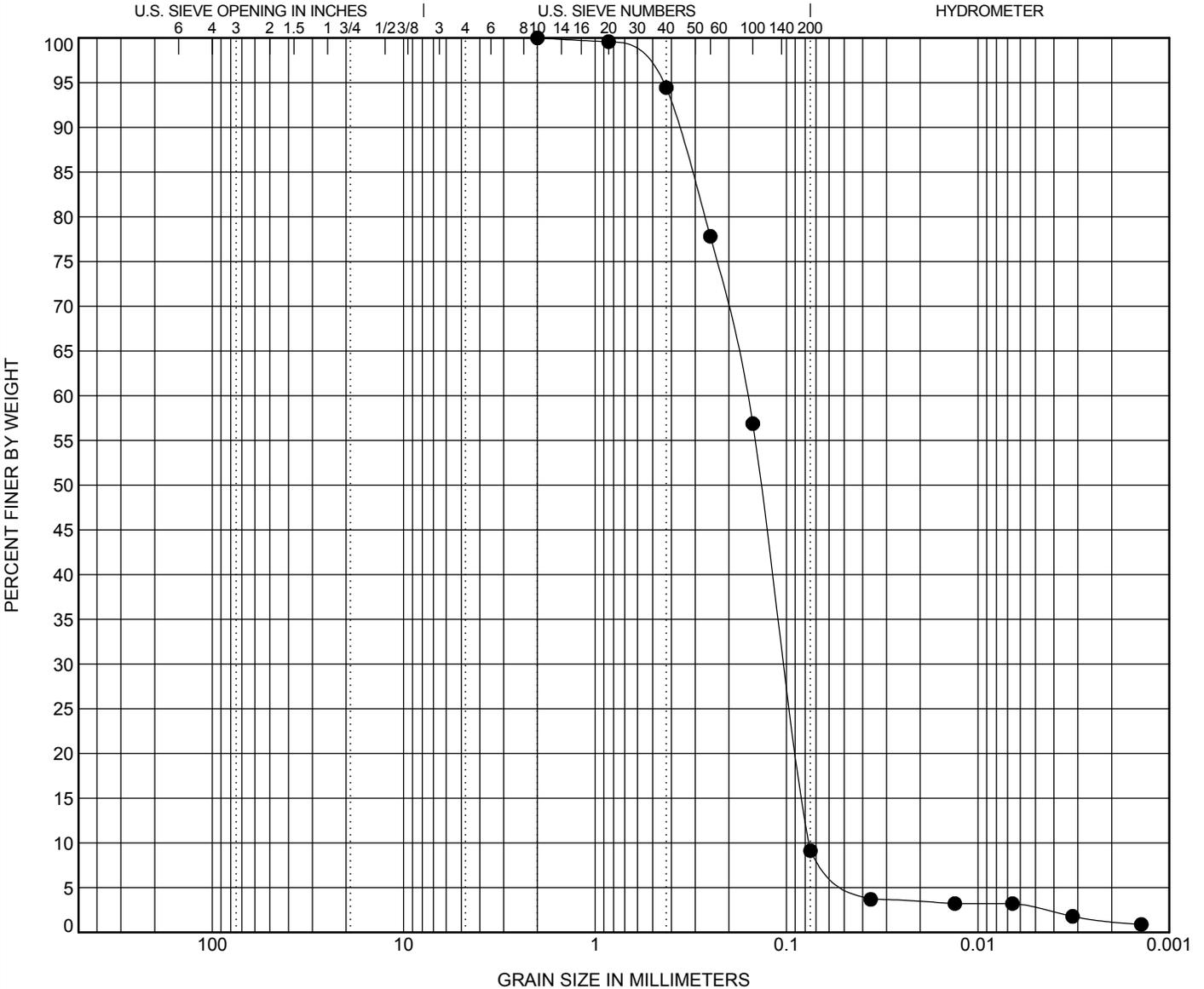
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● CZ 2.5 SED	Brown, dark gray medium to fine SAND with silt (SP- SM)	NP	NP	NP	0.84	2.13

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● CZ 2.5 SED	2	0.162	0.102	0.076	67.5	0.0	90.9	6.5	2.7

Note-Sample soaked for 16 hrs (+/- 10 min)



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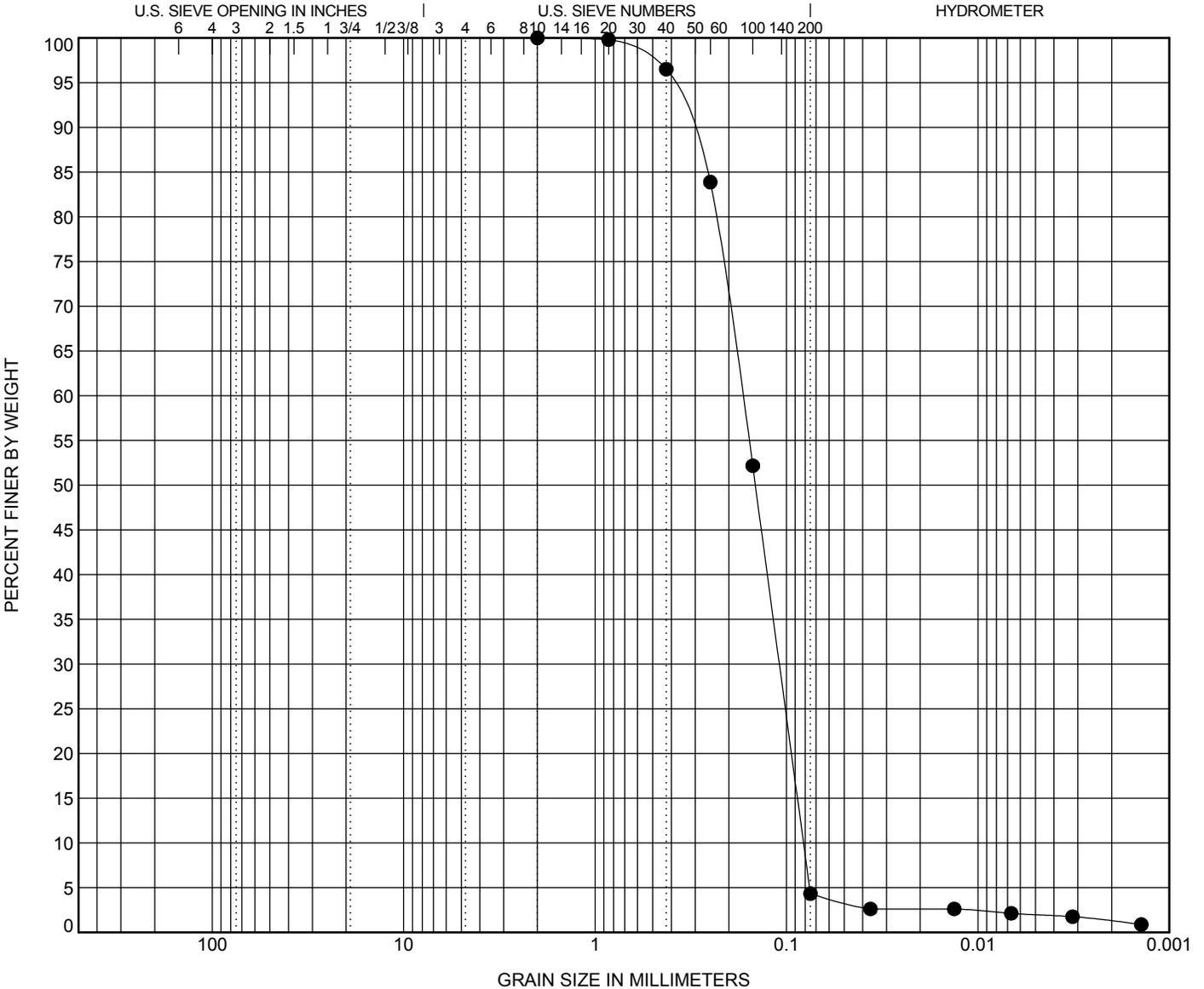
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● CZ 3.0 SED	Brown, dark gray fine SAND (SP)	NP	NP	NP	0.85	2.09

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● CZ 3.0 SED	2	0.17	0.109	0.081	43.4	0.0	95.7	2.4	2.0

Note-Sample soaked for 16 hrs (+/- 10 min)



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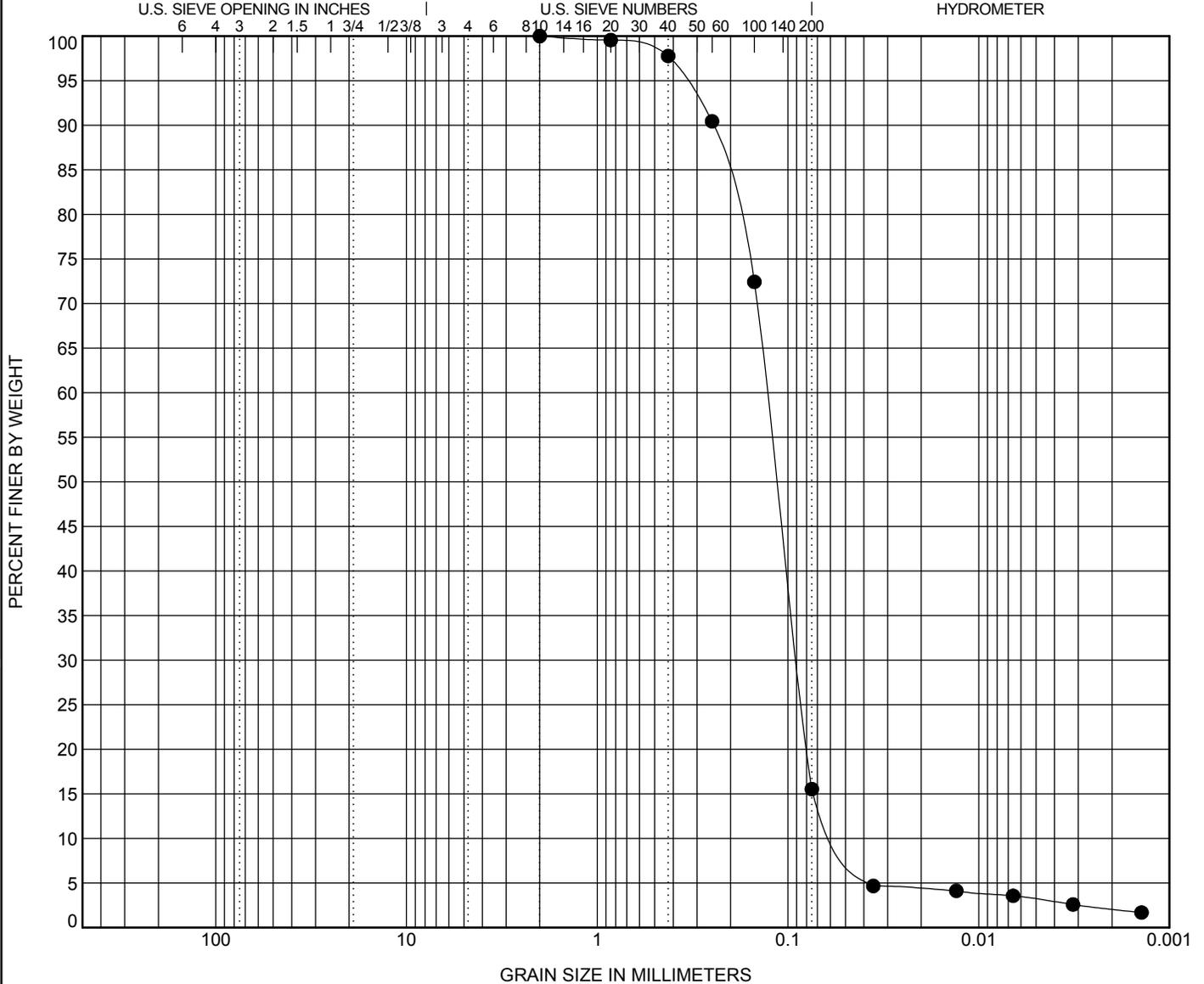
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PROJECT NAME SWFWMD River Sediment Analysis

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PROJECT LOCATION Chassahowitzka / Homosassa / Weeki Wachee Rivers



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● CZ 3.5 SED	Brown, dark gray silty fine SAND (SM)	NP	NP	NP	1.21	2.51

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● CZ 3.5 SED	2	0.129	0.089	0.051	86.6	0.0	84.5	12.3	3.2

Note-Sample soaked for 16 hrs (+/- 10 min)

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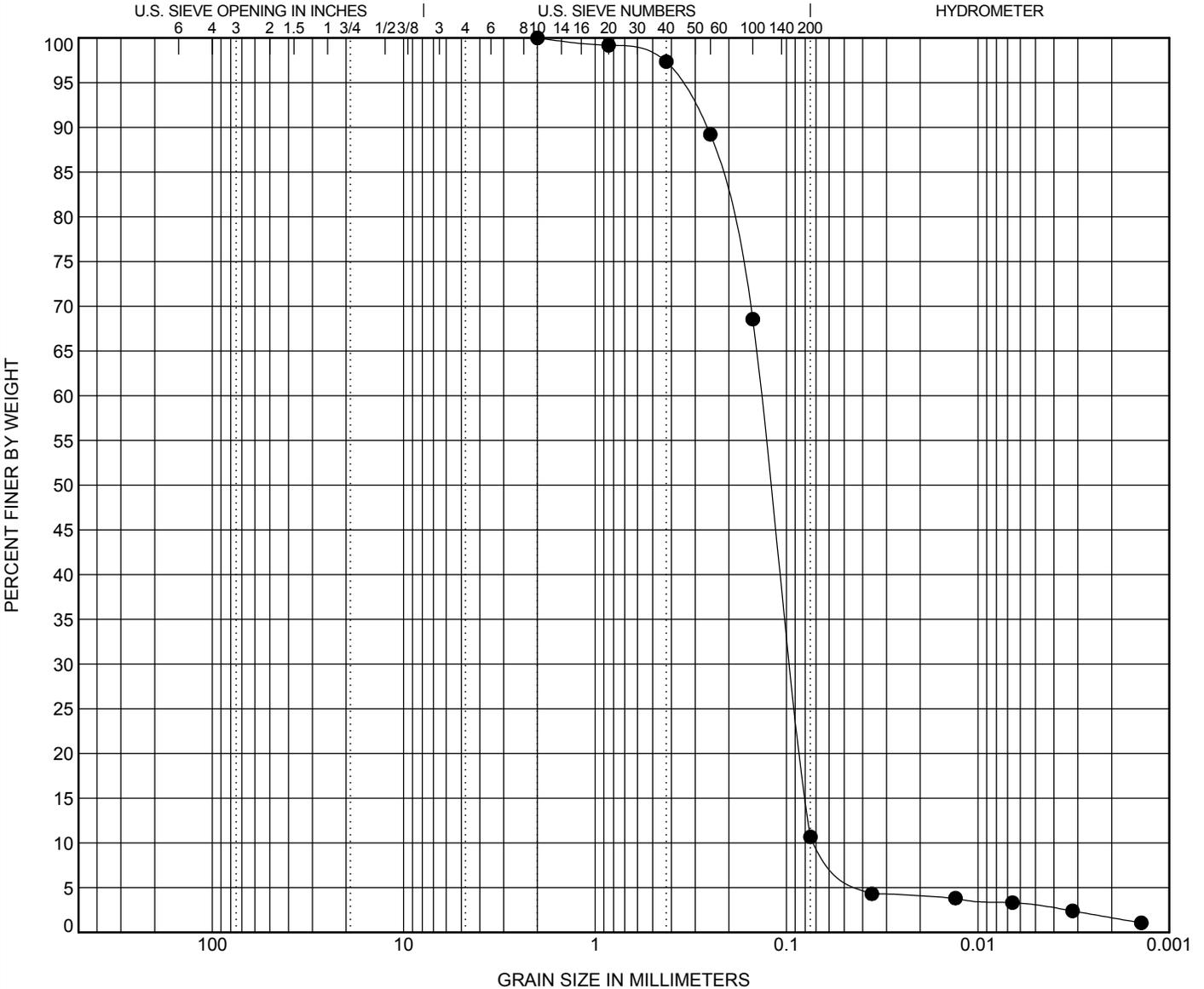
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● CZ 4.0 SED	Brown, dark gray fine SAND with silt (SP- SM)	NP	NP	NP	0.95	1.95

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● CZ 4.0 SED	2	0.135	0.095	0.069	114.4	0.0	89.3	7.7	3.0

Note-Sample soaked for 16 hrs (+/- 10 min)



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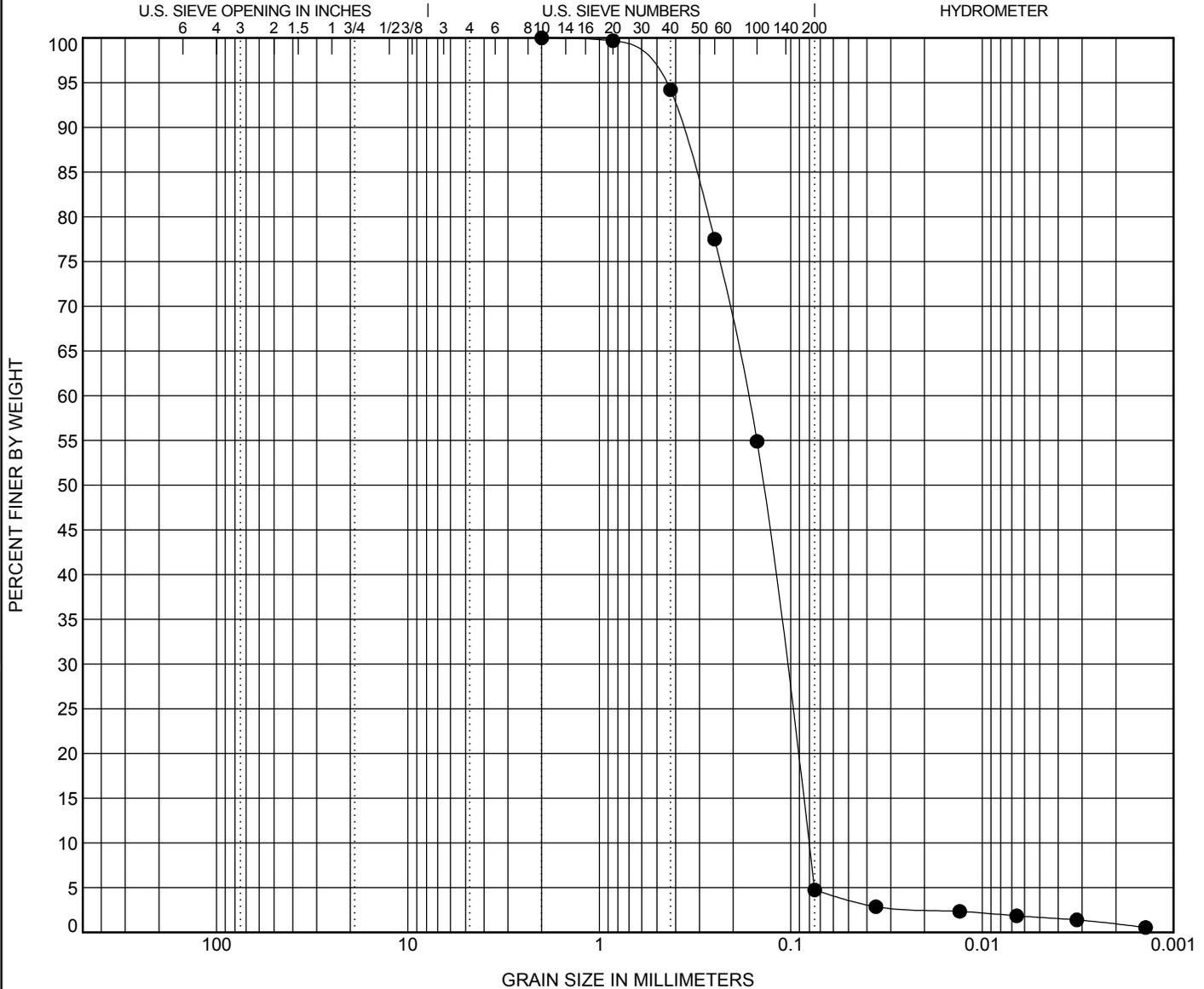
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification					LL	PL	PI	Cc	Cu
● CZ 4.5 SED	Brown, dark gray fine SAND (SP)					NP	NP	NP	0.83	2.09
Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay	
● CZ 4.5 SED	2	0.168	0.106	0.081	38.4	0.0	95.3	3.1	1.7	

Note-Sample soaked for 16 hrs (+/- 10 min)



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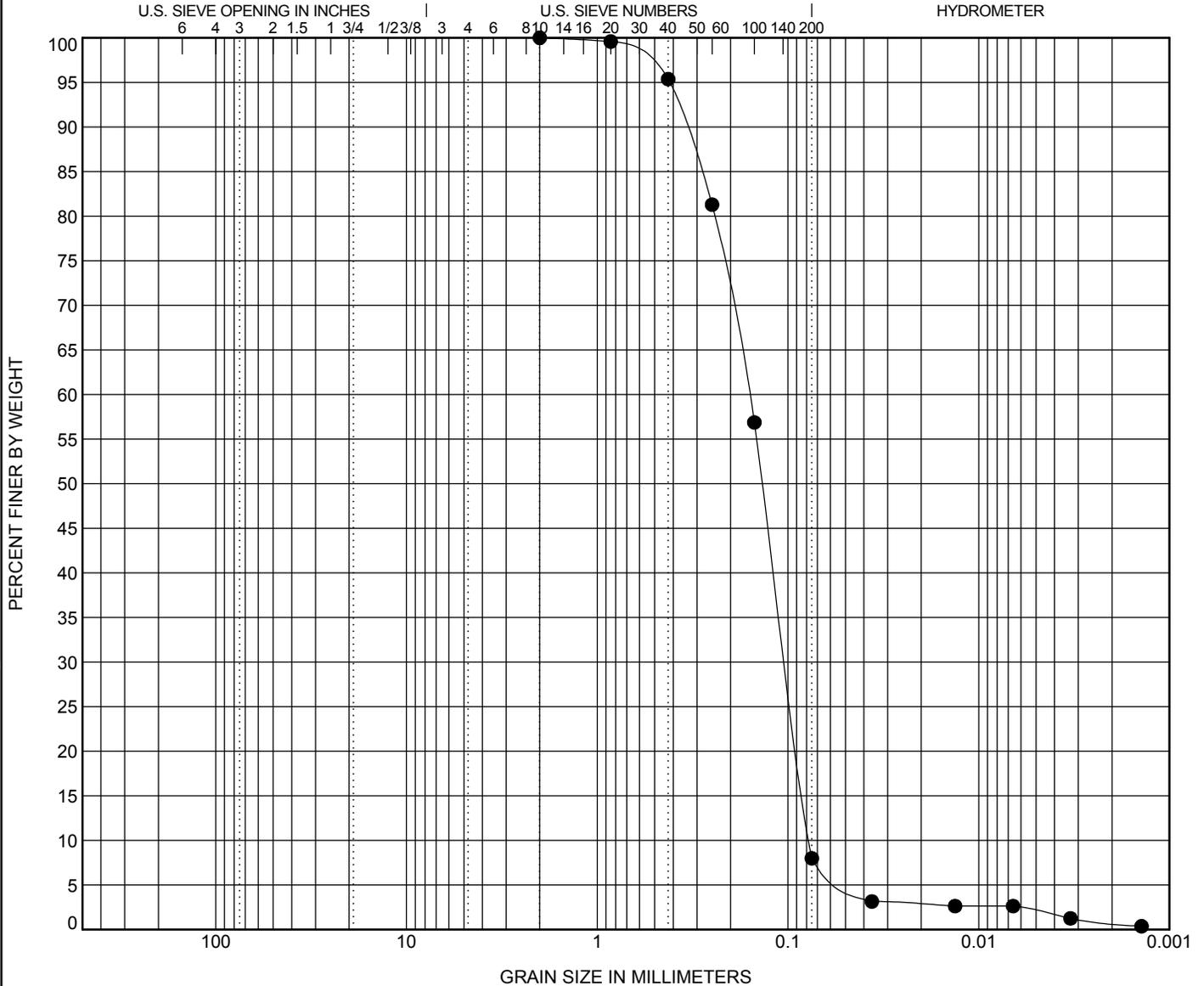
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PROJECT NAME SWFWMD River Sediment Analysis

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification					LL	PL	PI	Cc	Cu
● CZ 5.0 SED	Brown, dark gray fine SAND with silt (SP- SM)					NP	NP	NP	0.85	2.08
Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay	
● CZ 5.0 SED	2	0.16	0.102	0.077	37.4	0.0	92.0	5.9	2.1	

Note-Sample soaked for 16 hrs (+/- 10 min)

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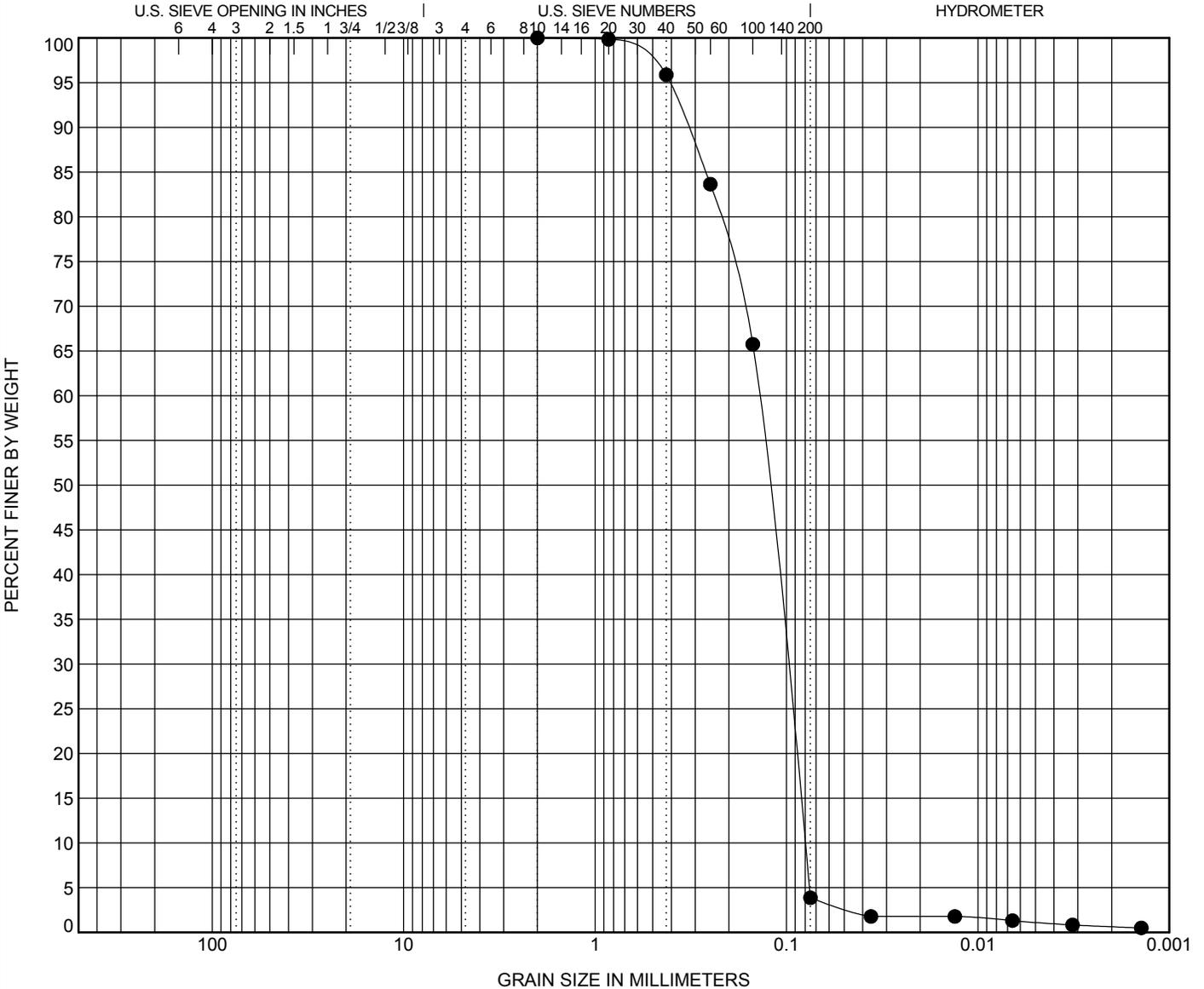
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● CZ 5.5 SED	Brown, dark gray fine SAND (SP)	NP	NP	NP	0.89	1.75

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● CZ 5.5 SED	2	0.141	0.101	0.08	36.7	0.0	96.1	2.7	1.1

Note-Sample soaked for 16 hrs (+/- 10 min)



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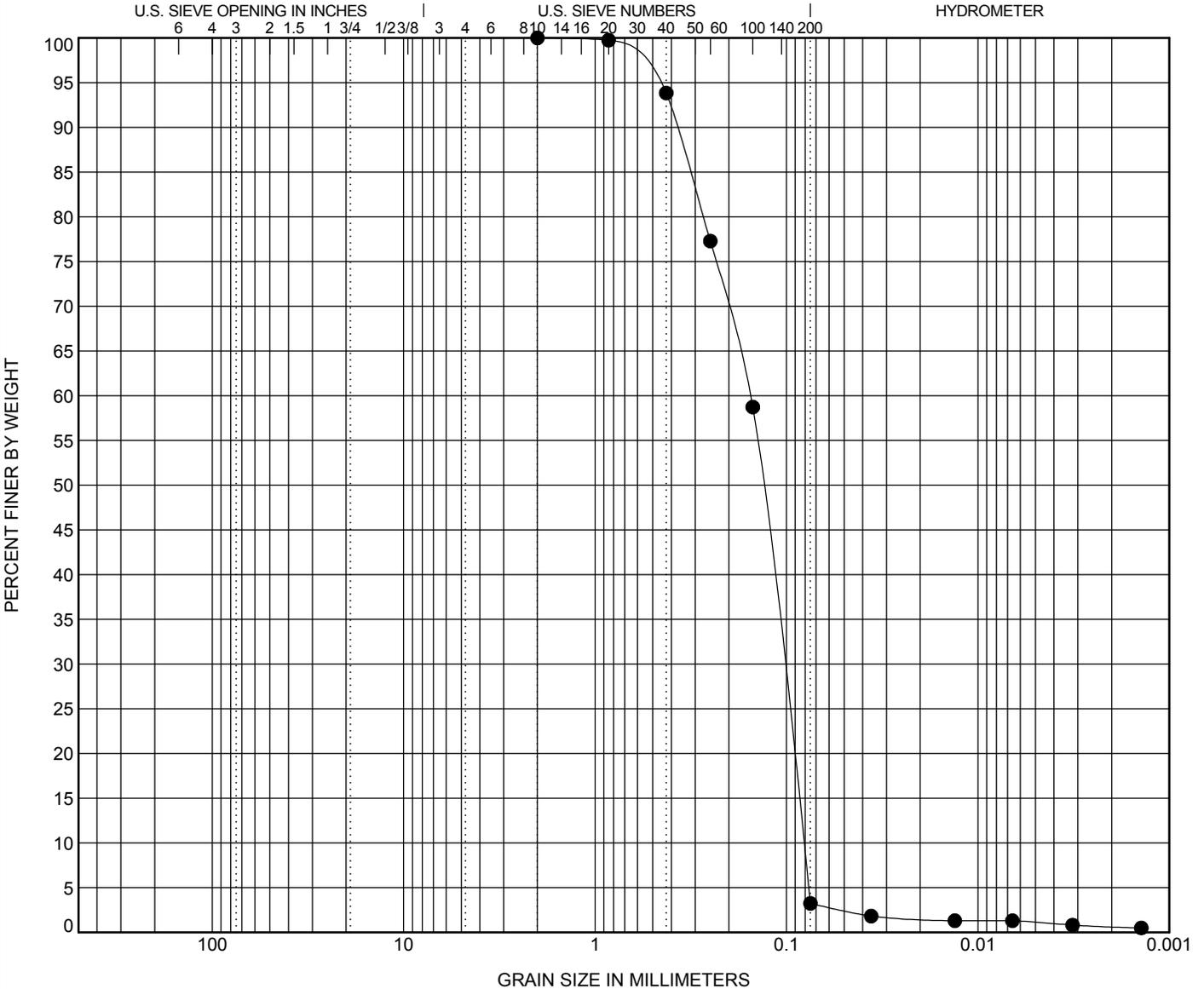
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● CZ 6.0 SED	Brown, dark gray fine SAND (SP)	NP	NP	NP	0.87	1.90

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● CZ 6.0 SED	2	0.155	0.105	0.082	26.5	0.0	96.8	2.1	1.1

Note-Sample soaked for 16 hrs (+/- 10 min)



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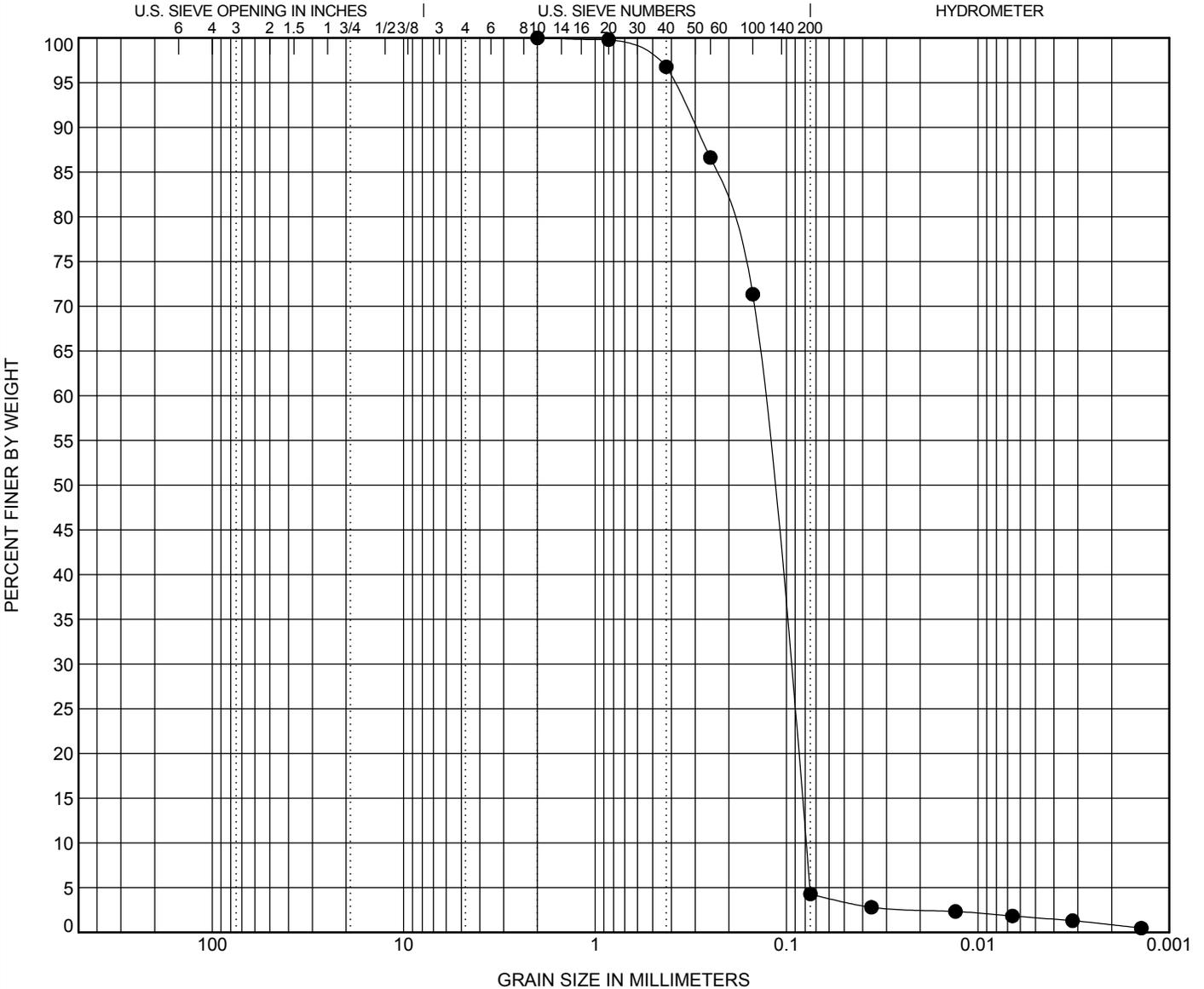
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PROJECT NAME SWFWMD River Sediment Analysis

PROJECT NUMBER T031522.076

PROJECT LOCATION Chassahowitzka / Homosassa / Weeki Wachee Rivers

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● CZ 6.5 SED	Brown, dark gray fine SAND (SP)	NP	NP	NP	0.90	1.68

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● CZ 6.5 SED	2	0.133	0.098	0.08	27.0	0.0	95.7	2.7	1.6

Note-Sample soaked for 16 hrs (+/- 10 min)



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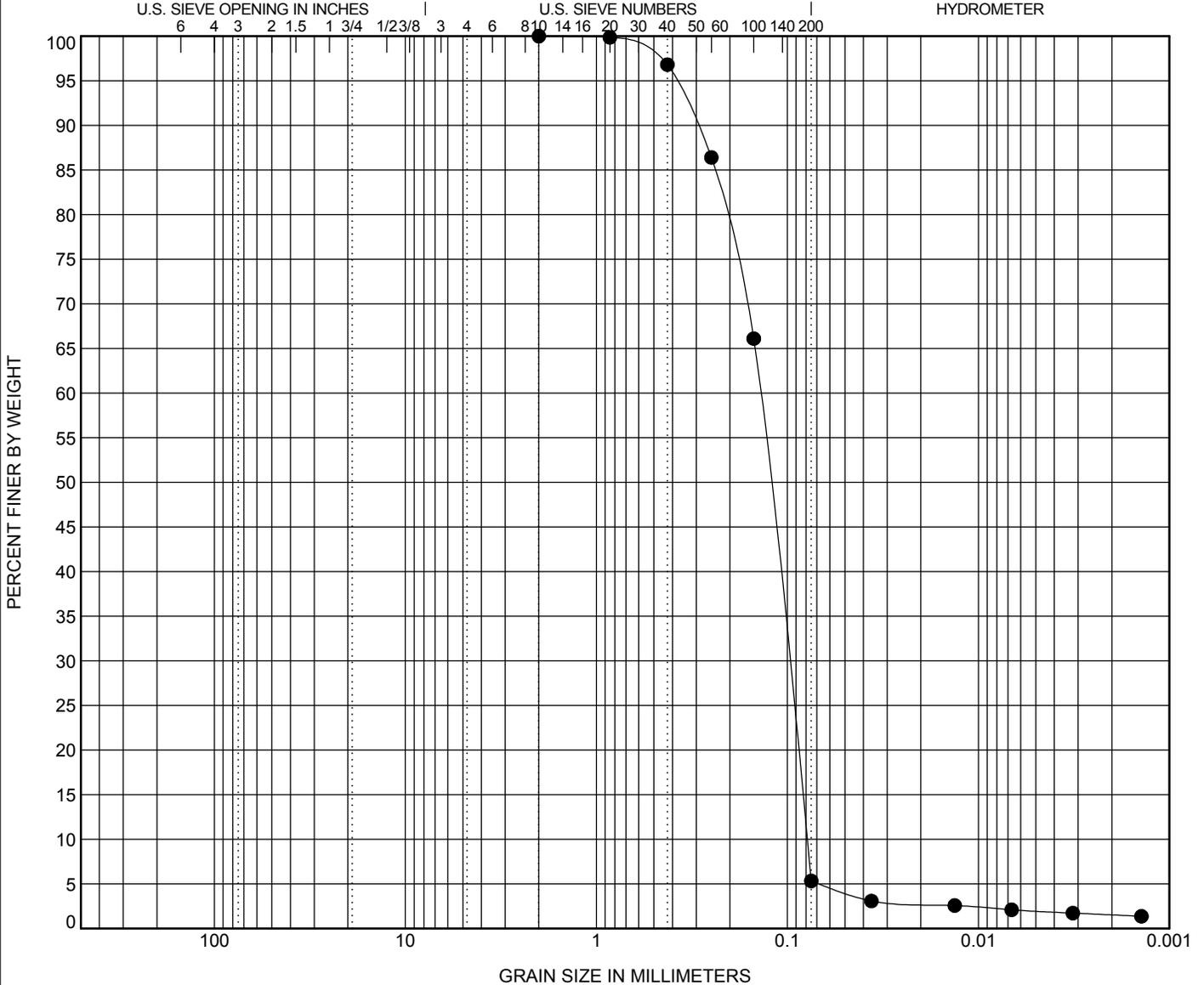
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PROJECT LOCATION Chassahowitzka / Homosassa / Weeki Wachee Rivers



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification					LL	PL	PI	Cc	Cu
● CZ 7.0 SED	Brown, dark gray fine SAND with silt (SP- SM)					NP	NP	NP	0.89	1.77
Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay	
● CZ 7.0 SED	2	0.14	0.099	0.079	26.7	0.0	94.7	3.4	1.9	

Note-Sample soaked for 16 hrs (+/- 10 min)

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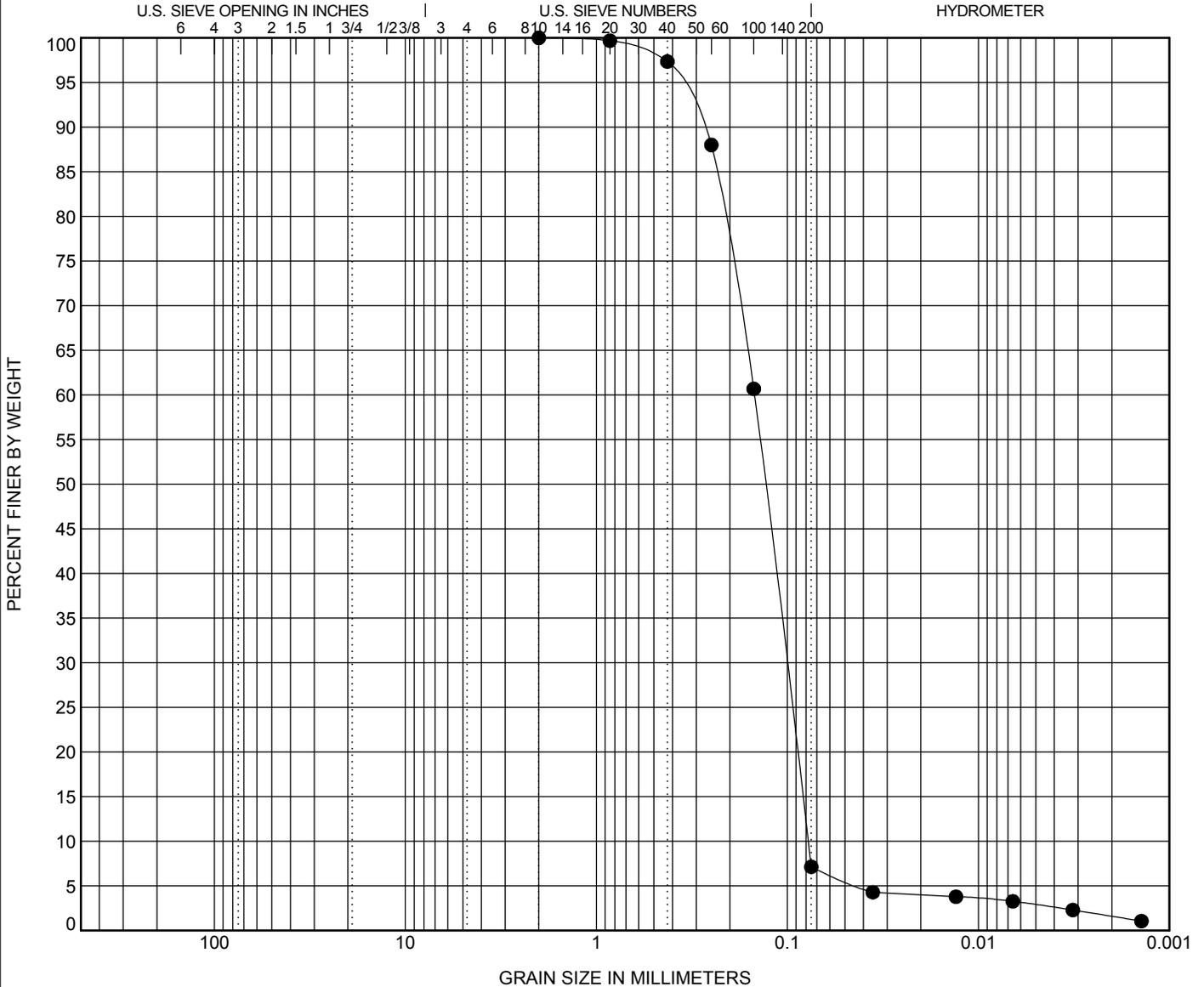
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification					LL	PL	PI	Cc	Cu
● CZ 7.5 SED	Brown, dark gray fine SAND with silt (SP- SM)					NP	NP	NP	0.88	1.91
Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay	
● CZ 7.5 SED	2	0.149	0.101	0.078	54.6	0.0	92.9	4.2	2.9	

Note-Sample soaked for 16 hrs (+/- 10 min)



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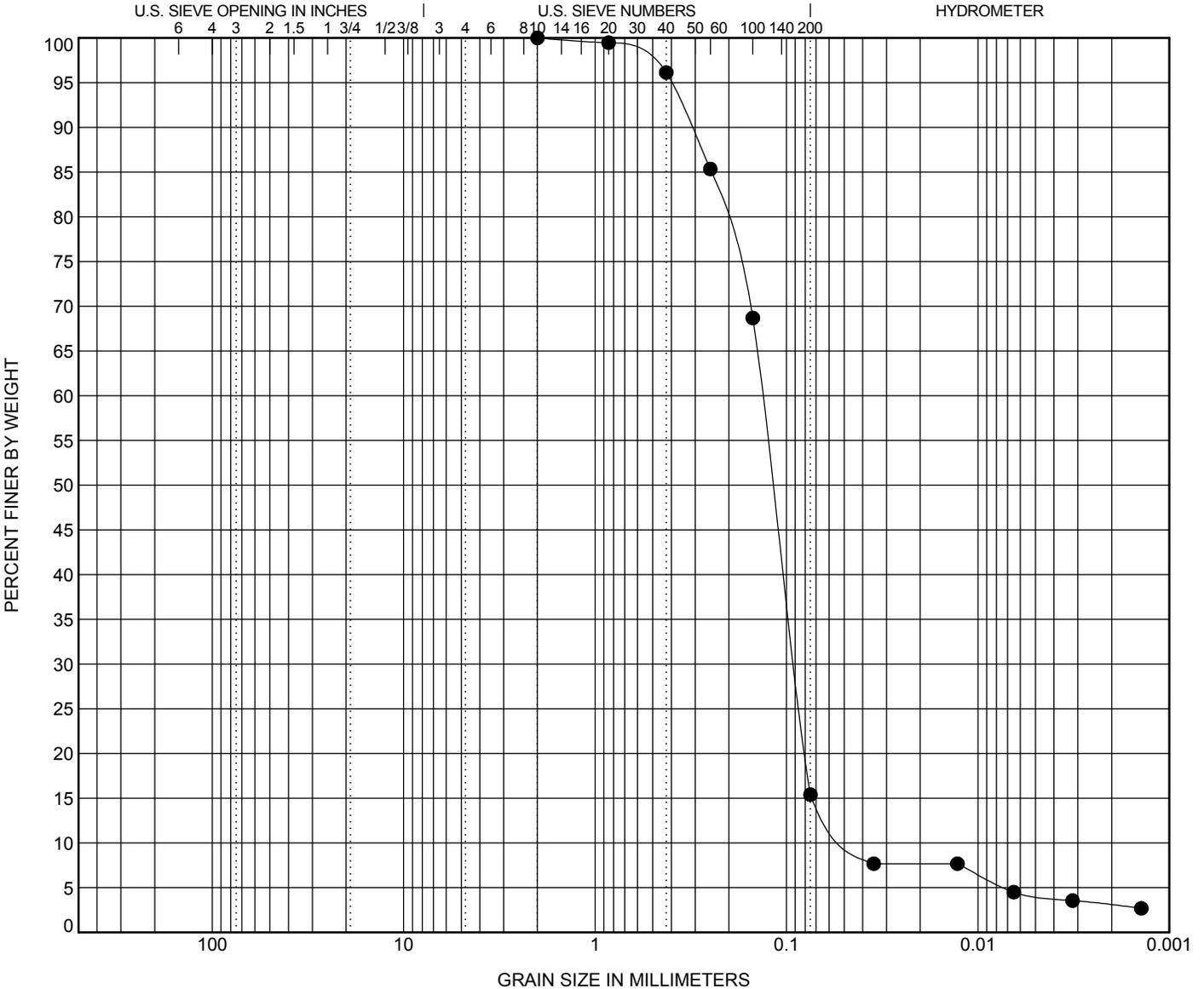
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● CZ 8.0 SED	Brown, dark gray silty fine SAND (SM)	NP	NP	NP	1.39	3.04

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● CZ 8.0 SED	2	0.134	0.091	0.044	76.7	0.0	84.6	11.3	4.1

Note-Sample soaked for 16 hrs (+/- 10 min)



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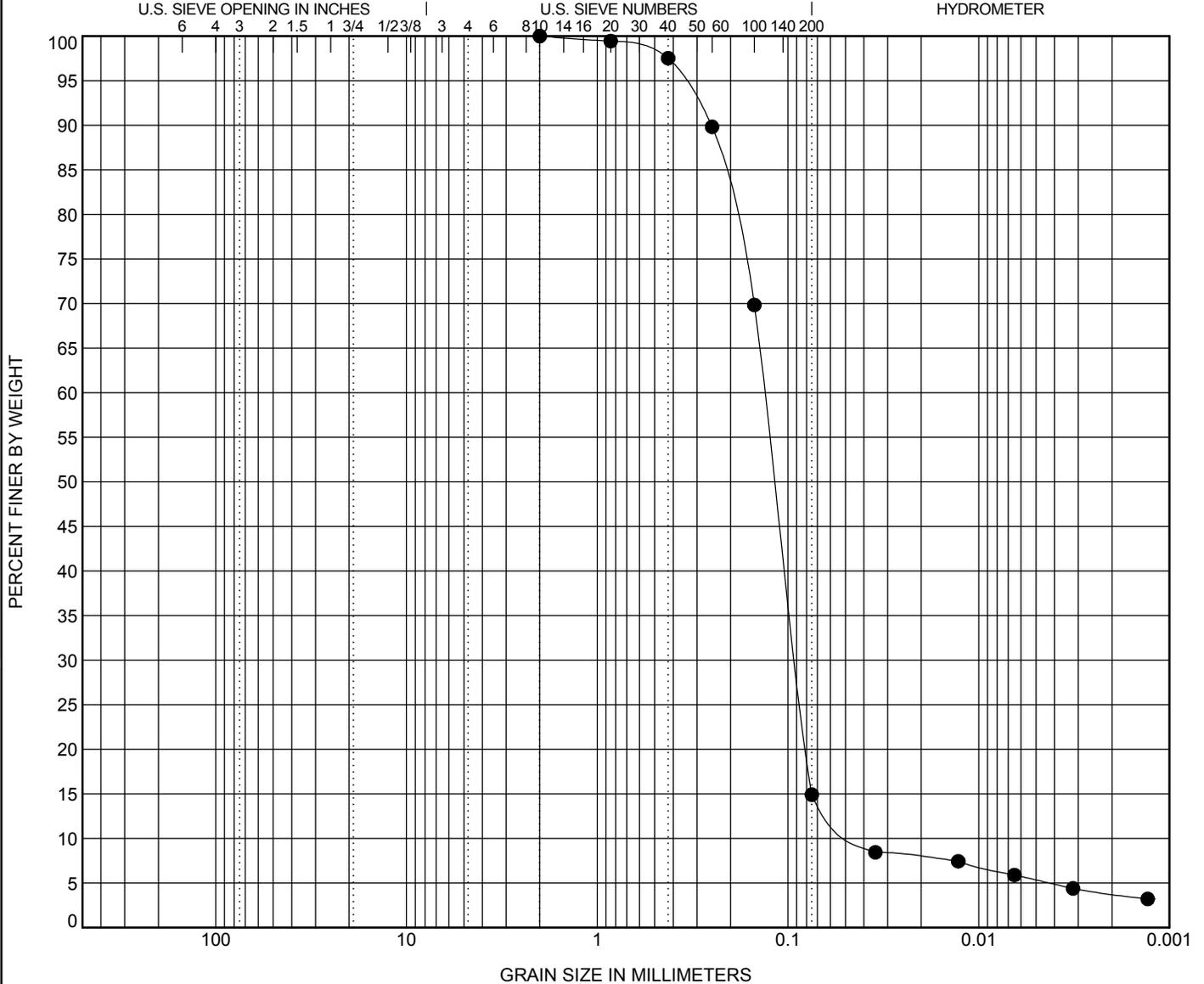
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● CZ 8.5 SED	Brown, dark gray silty fine SAND (SM)	NP	NP	NP	1.48	3.16

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● CZ 8.5 SED	2	0.132	0.091	0.042	89.8	0.0	85.1	9.6	5.3

Note-Sample soaked for 16 hrs (+/- 10 min)

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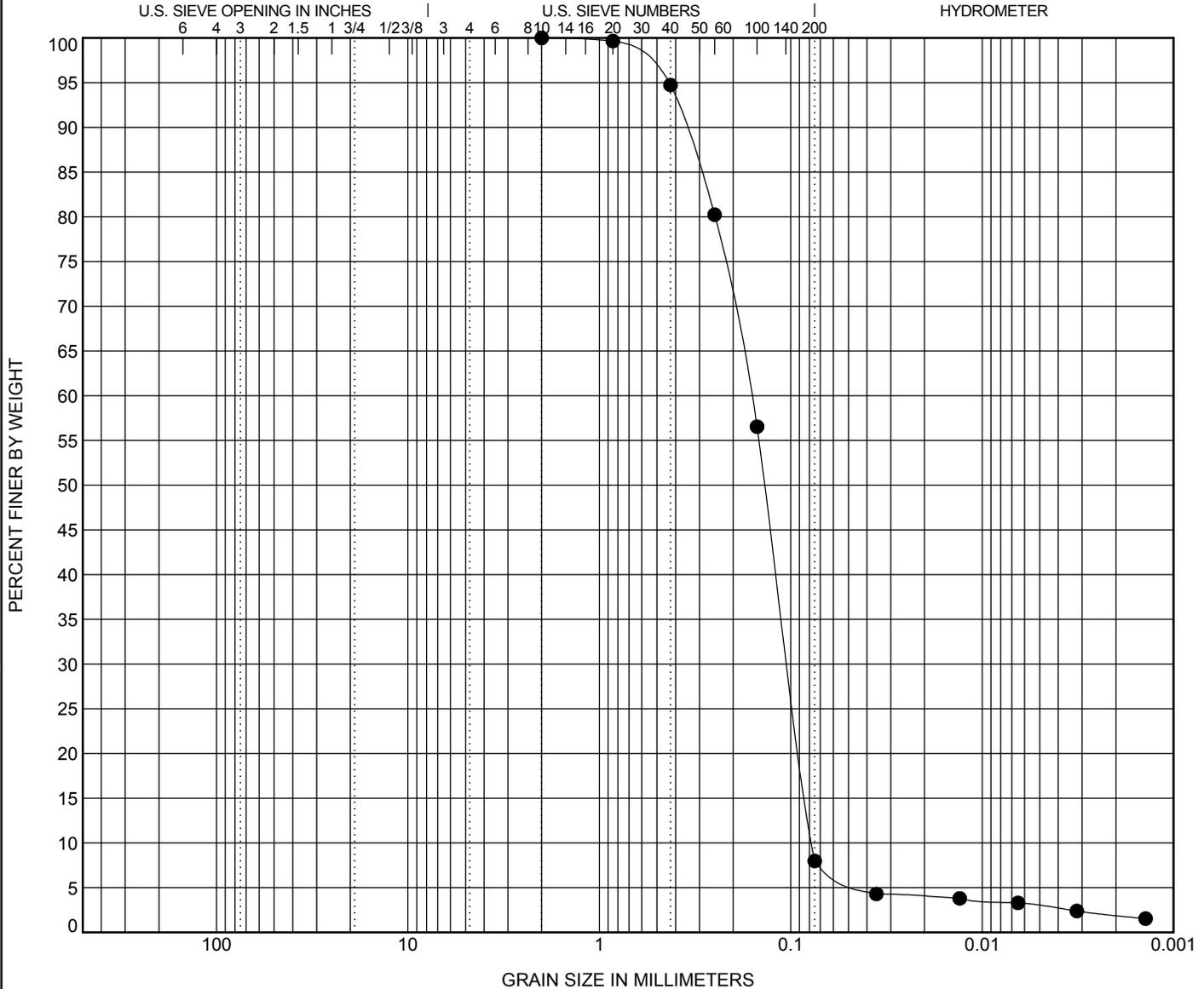
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● CZ 9.0 SED	Brown, dark gray mediu to fine SAND with silt (SP- SM)	NP	NP	NP	0.85	2.09

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● CZ 9.0 SED	2	0.162	0.103	0.077	45.7	0.0	92.0	5.0	3.0

Note-Sample soaked for 16 hrs (+/- 10 min)



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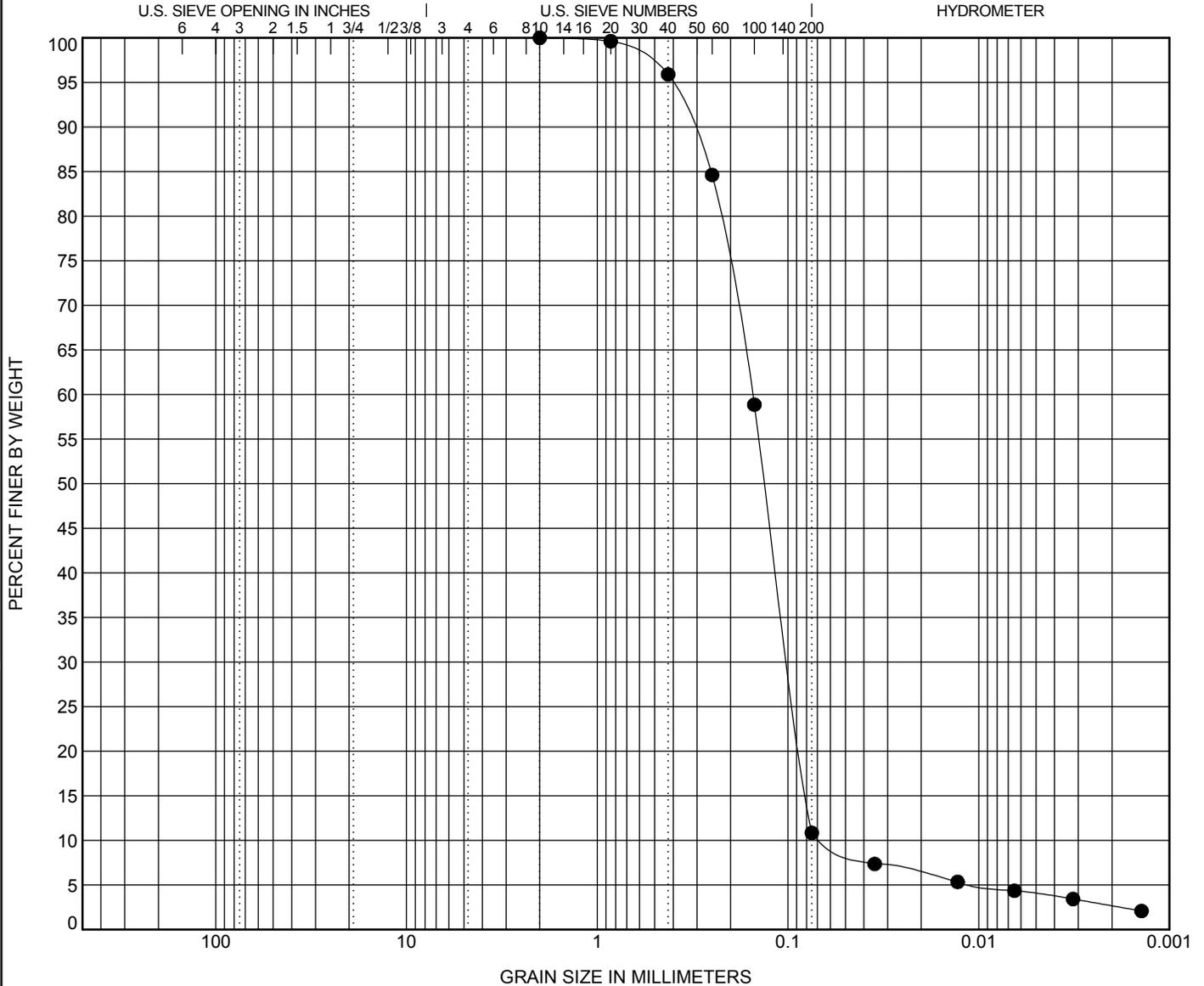
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● CZ 9.5 SED	Brown, dark gray fine SAND with silt (SP- SM)	NP	NP	NP	1.02	2.46

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● CZ 9.5 SED	2	0.153	0.099	0.062	62.2	0.0	89.2	6.8	4.0

Note-Sample soaked for 16 hrs (+/- 10 min)

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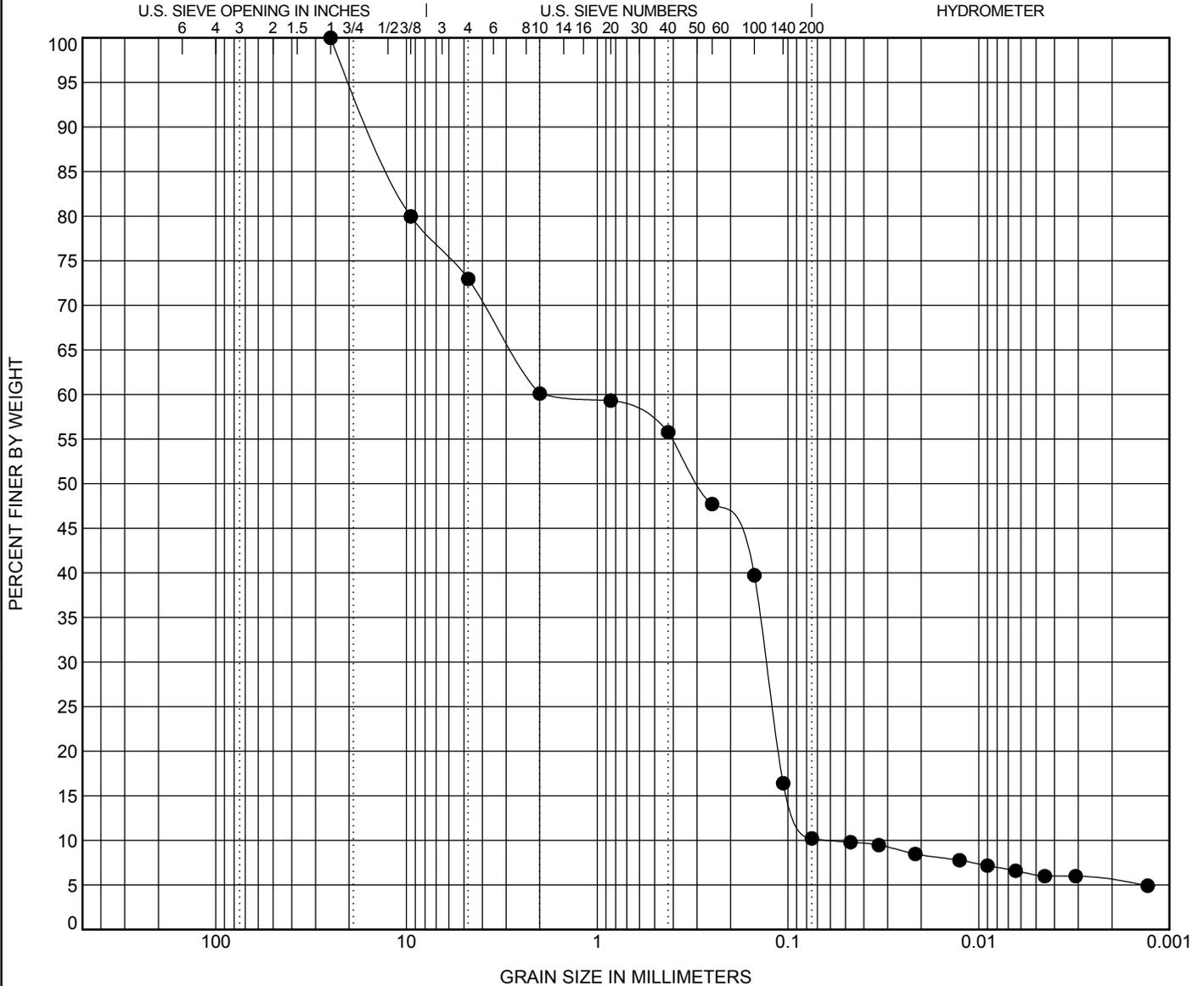
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● CZ 10.0 SED	Dark C to F SAND with silt and shell (SP-SM)	NP	NP	NP	0.16	30.32

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● CZ 10.0 SED	25	1.786	0.13	0.059	67.8	27.0	62.7	4.1	6.2

Note-Sample soaked for 16 hrs (+/- 10 min)



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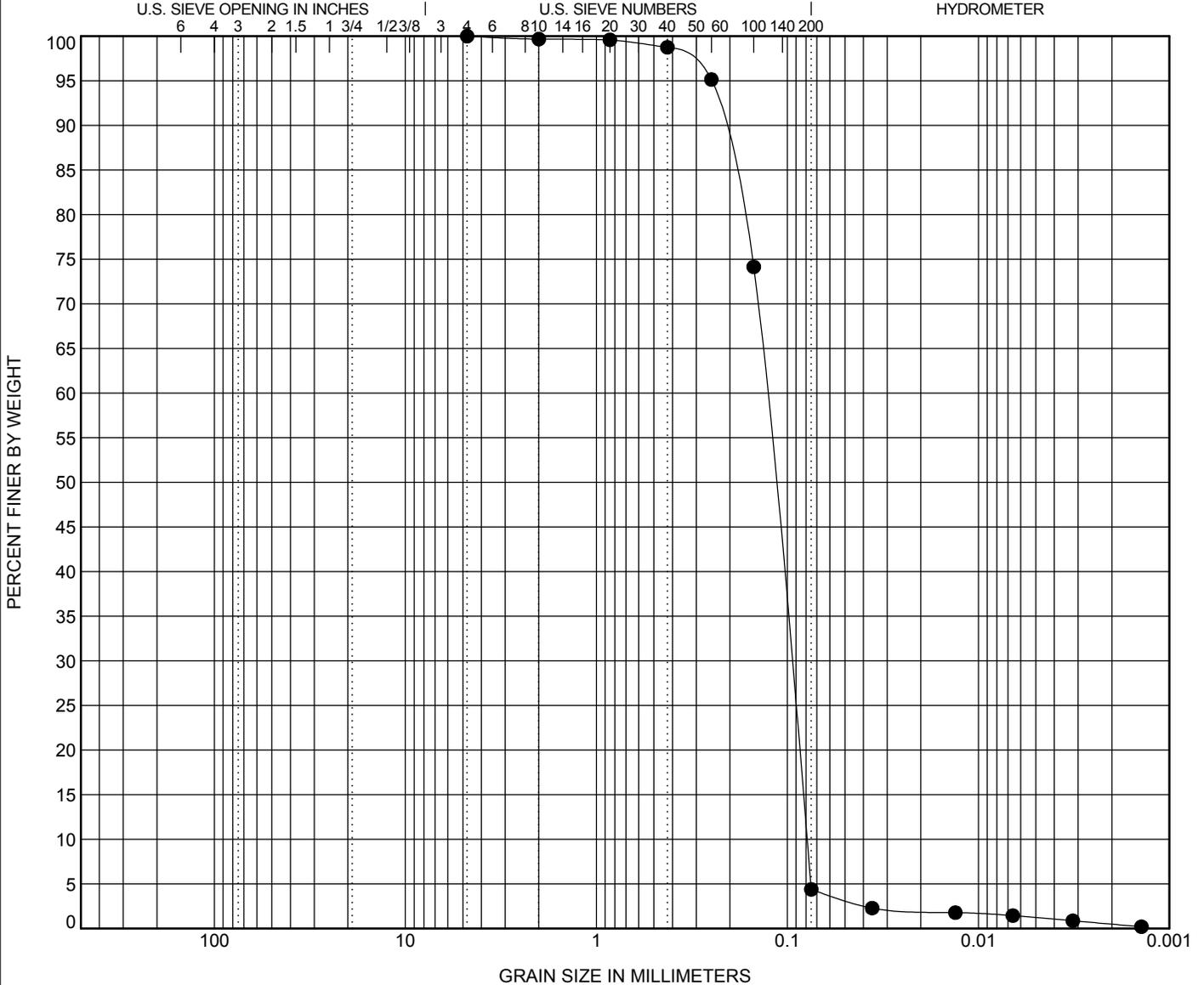
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification					LL	PL	PI	Cc	Cu
● HM 1.5 SED	Brown, dark gray fine SAND (SP)					NP	NP	NP	0.91	1.64
Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay	
● HM 1.5 SED	4.75	0.13	0.097	0.079	58.4	0.0	95.6	3.2	1.2	

Note-Sample soaked for 16 hrs (+/- 10 min)

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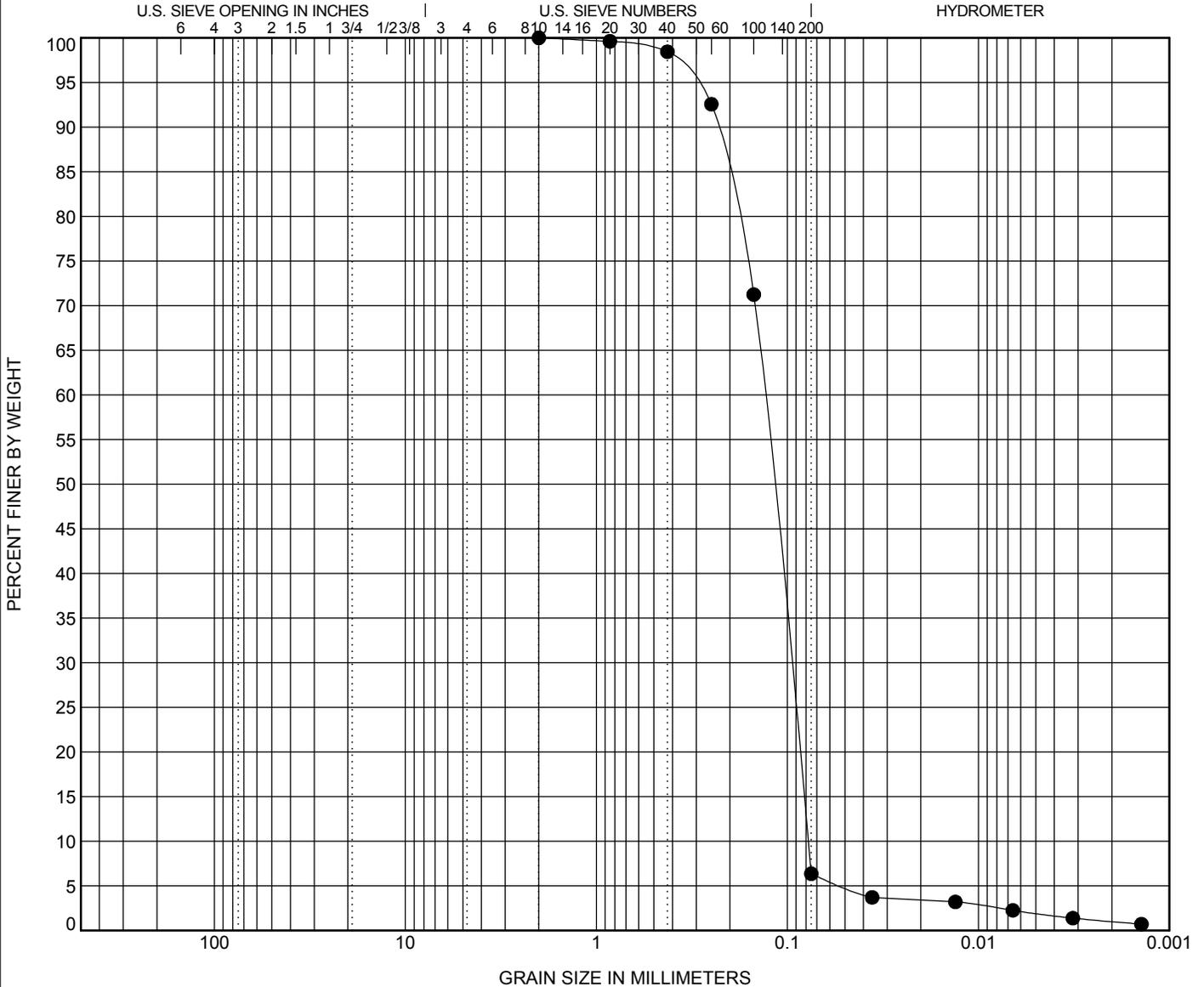
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● HM 2.5 SED	Brown, dark gray fine SAND with silt (SP- SM)	NP	NP	NP	0.90	1.71

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● HM 2.5 SED	2	0.133	0.097	0.078	63.9	0.0	93.6	4.4	1.9

Note-Sample soaked for 16 hrs (+/- 10 min)



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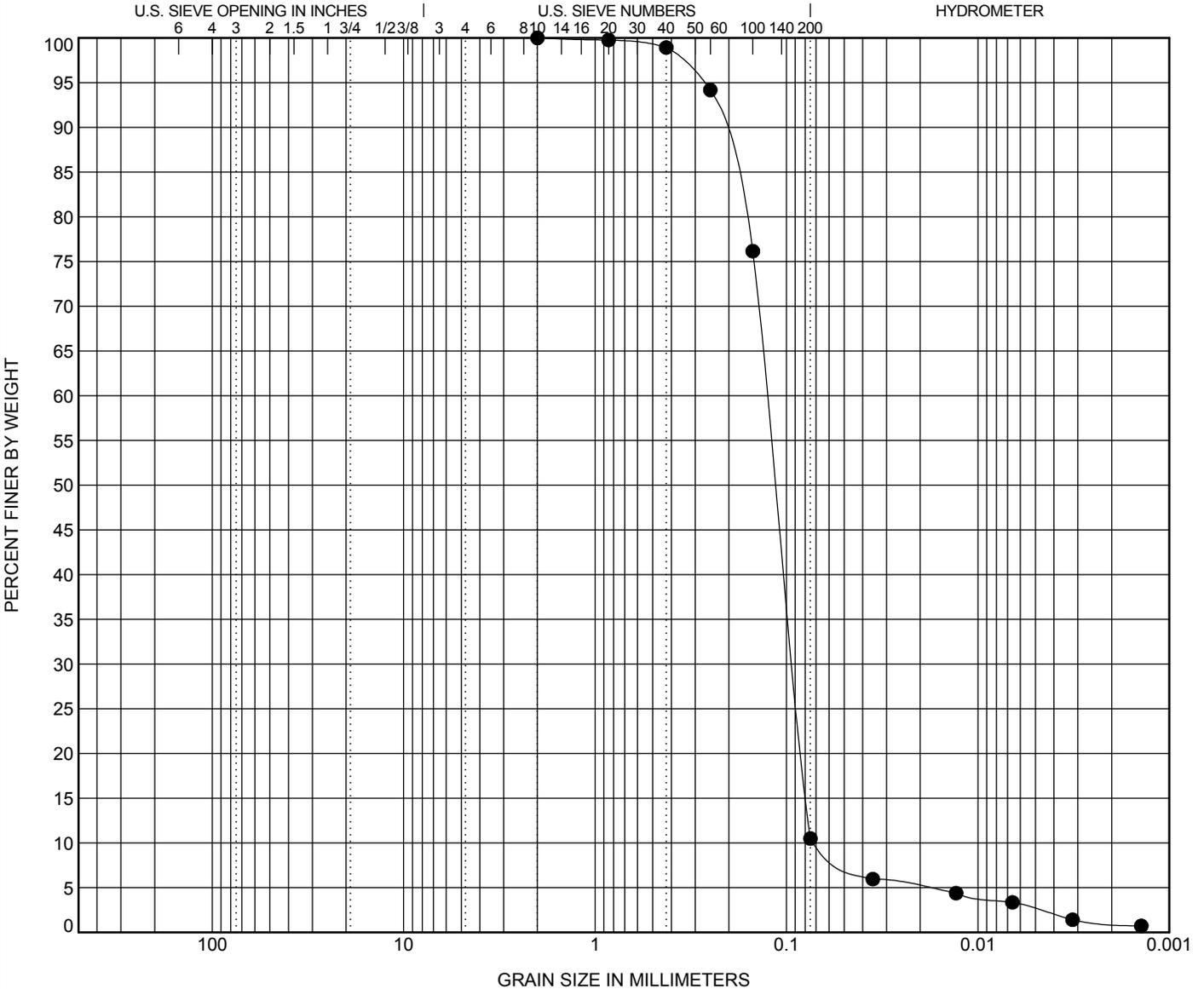
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PROJECT LOCATION Chassahowitzka / Homosassa / Weeki Wachee Rivers



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● HM 3.5 SED	Brown, dark gray fine SAND with silt (SP- SM)	NP	NP	NP	0.97	1.83

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● HM 3.5 SED	2	0.126	0.092	0.069	68.0	0.0	89.5	7.9	2.6

Note-Sample soaked for 16 hrs (+/- 10 min)

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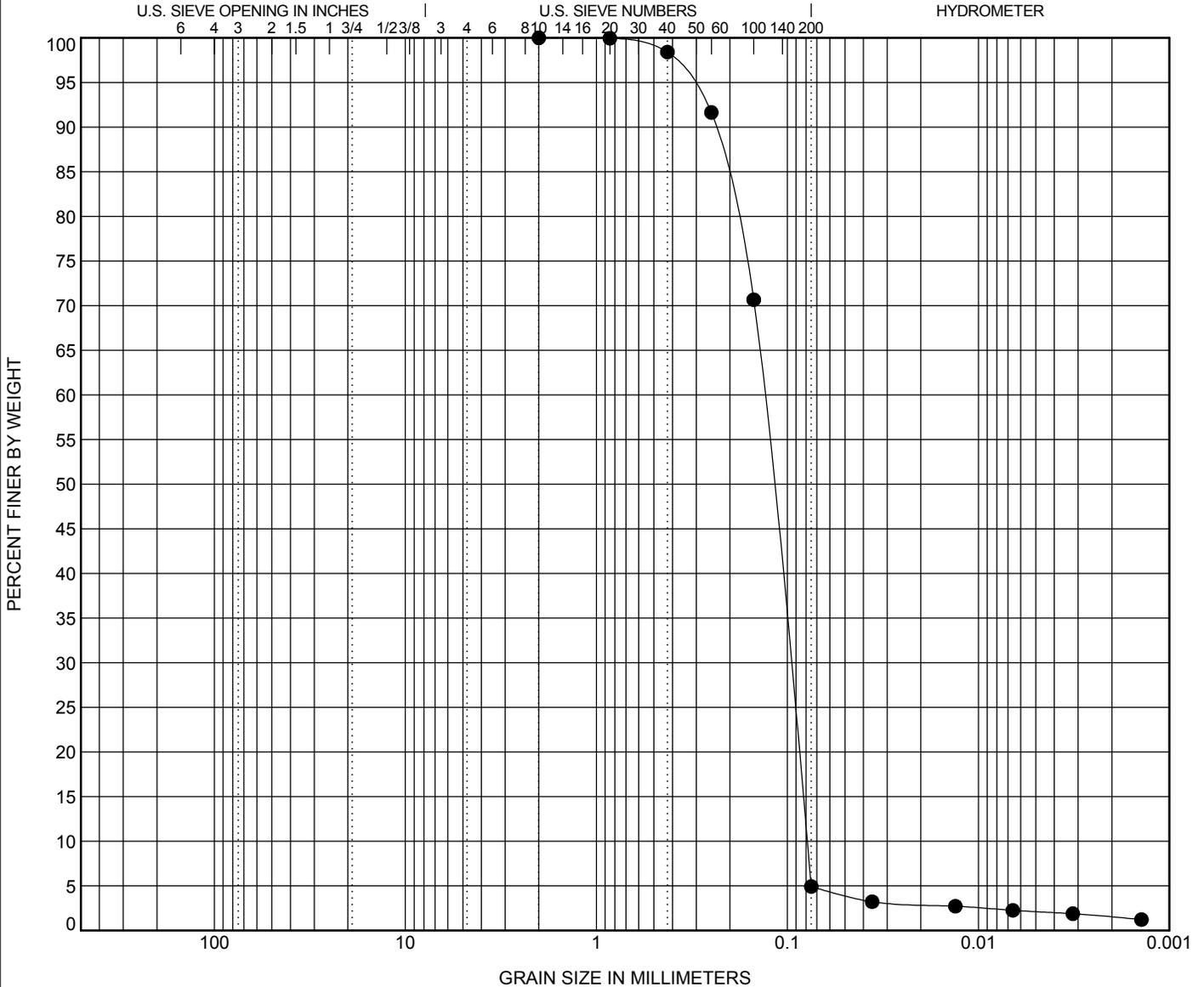
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification					LL	PL	PI	Cc	Cu
● HM 4.5 SED	Brown, dark gray fine SAND (SP)					NP	NP	NP	0.90	1.69
Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay	
● HM 4.5 SED	2	0.134	0.098	0.079	46.8	0.0	95.1	2.8	2.1	

Note-Sample soaked for 16 hrs (+/- 10 min)



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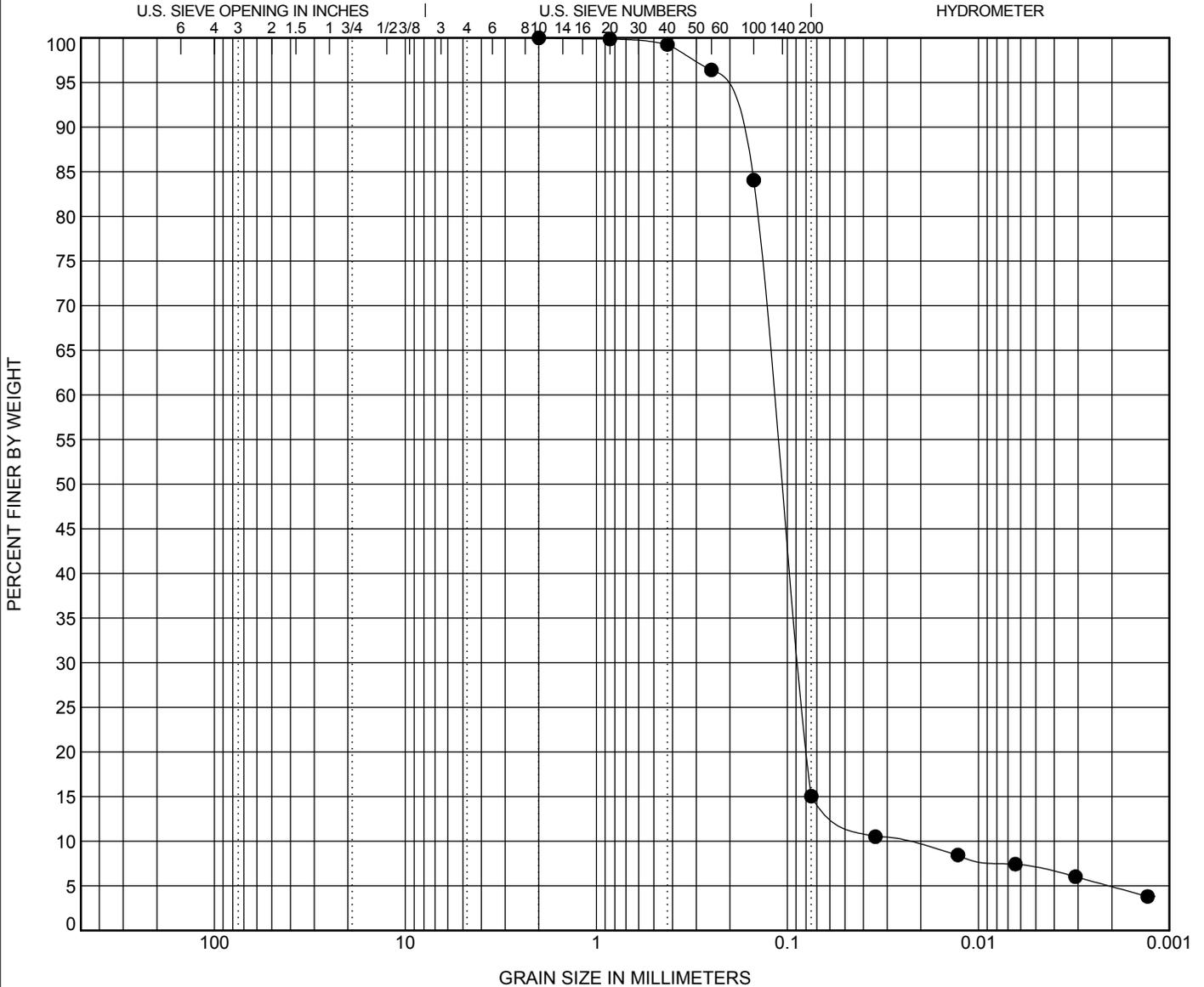
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● HM 5.5 SED	Brown, dark gray silty fine SAND (SM)	NP	NP	NP	2.39	4.36

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● HM 5.5 SED	2	0.118	0.087	0.027	96.3	0.0	85.0	8.1	7.0

Note-Sample soaked for 16 hrs (+/- 10 min)

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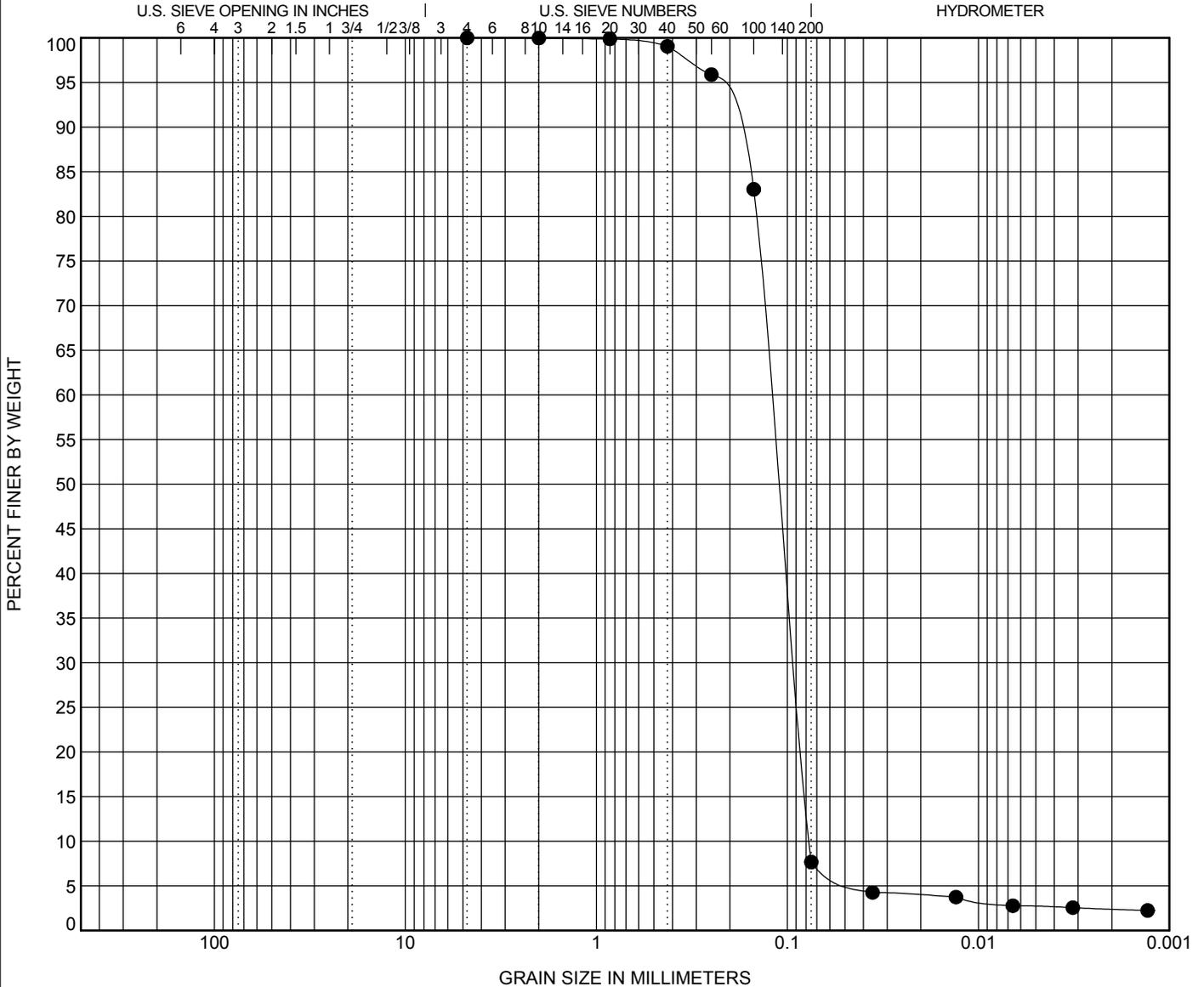
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification					LL	PL	PI	Cc	Cu
● HM 6.0 SED	Brown, dark gray fine SAND with silt (SP- SM)					NP	NP	NP	0.91	1.58
Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay	
● HM 6.0 SED	4.75	0.121	0.092	0.077	45.6	0.0	92.3	5.0	2.7	

Note-Sample soaked for 16 hrs (+/- 10 min)

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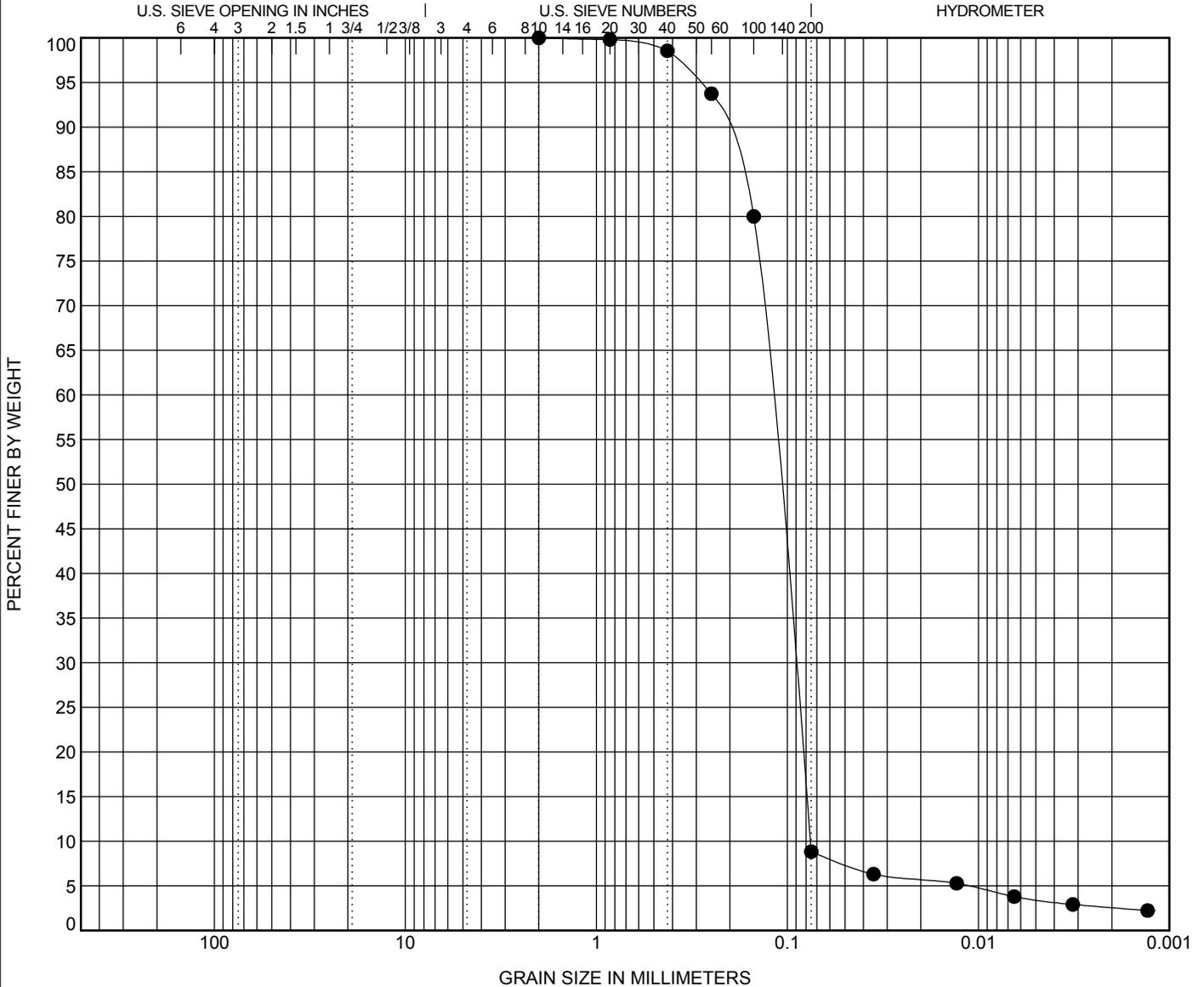
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● HM 6.5 SED	Brown, dark gray fine SAND with silt (SP- SM)	NP	NP	NP	0.91	1.63

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● HM 6.5 SED	2	0.123	0.092	0.076	49.5	0.0	91.2	5.4	3.5

Note-Sample soaked for 16 hrs (+/- 10 min)

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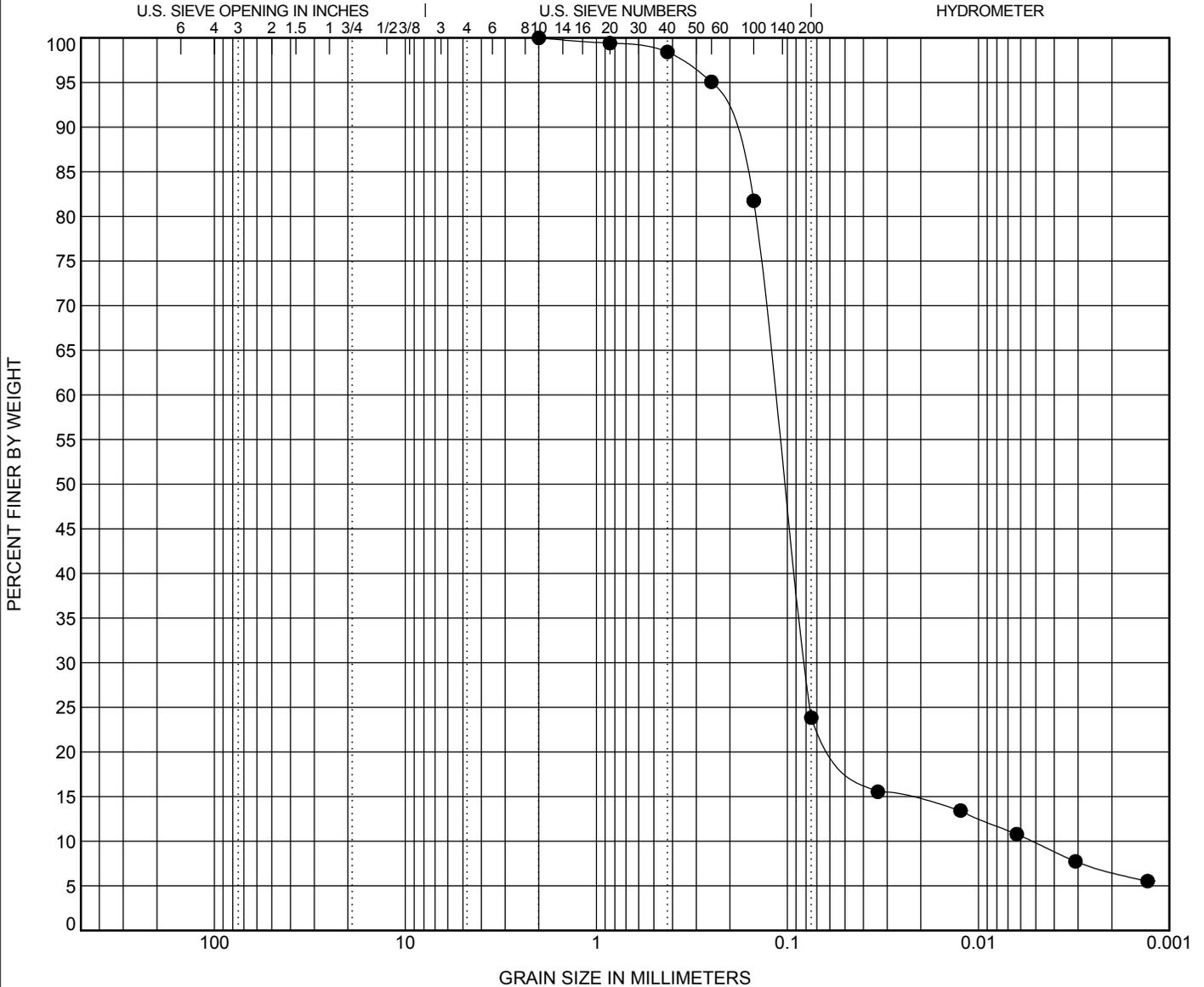
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● HM 7.0 SED	Brown, dark gray silty fine SAND (SM)	NP	NP	NP	10.76	22.07

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● HM 7.0 SED	2	0.116	0.081	0.005	129.0	0.0	76.2	14.0	9.8

Note-Sample soaked for 16 hrs (+/- 10 min)

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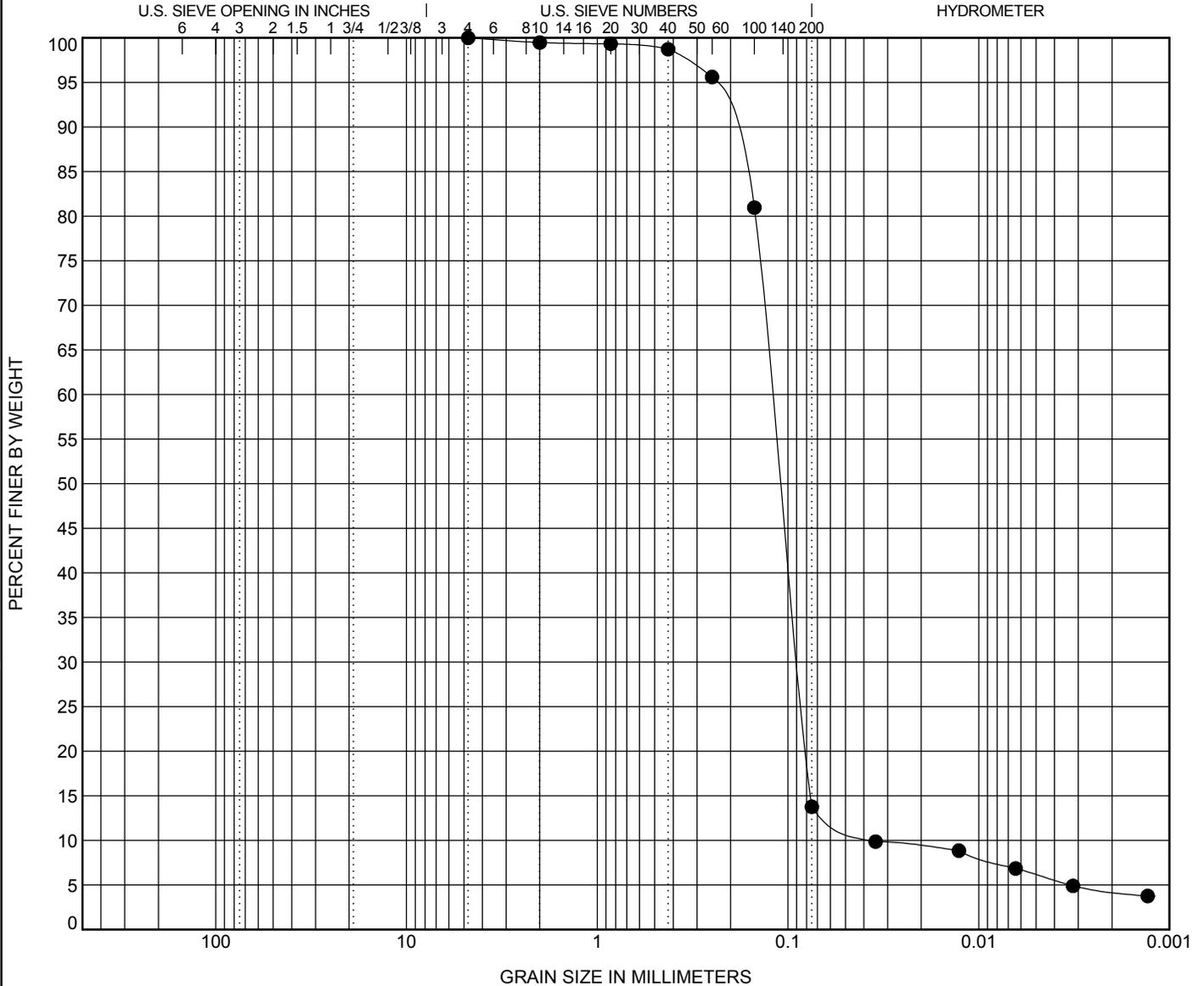
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification					LL	PL	PI	Cc	Cu
● HM 7.5 SED	Brown, dark gray silty fine SAND (SM)					NP	NP	NP	1.82	3.39
Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay	
● HM 7.5 SED	4.75	0.121	0.089	0.036	92.0	0.0	86.2	7.6	6.2	

Note-Sample soaked for 16 hrs (+/- 10 min)

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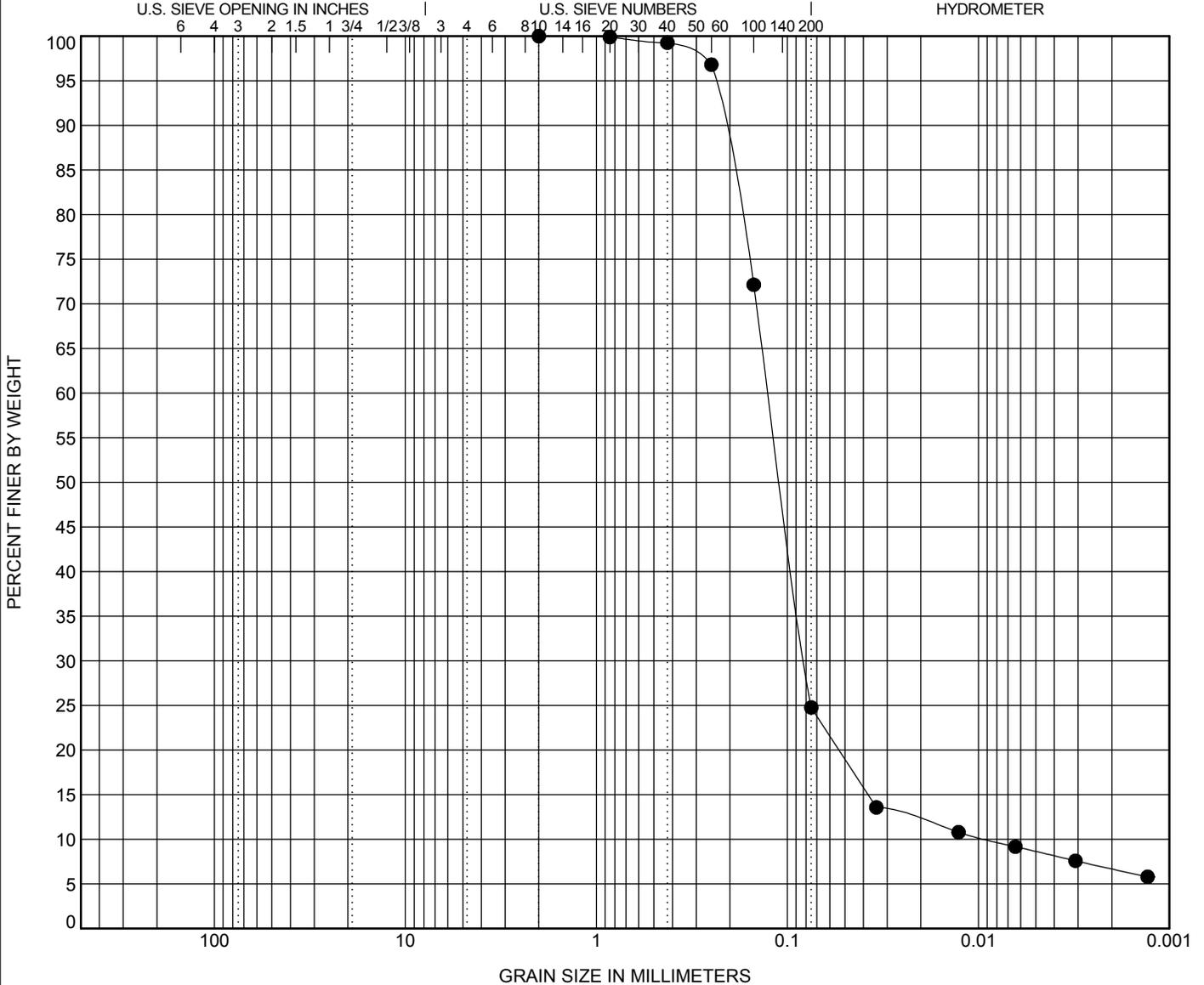
GRAIN SIZE DISTRIBUTION

CLIENT Arcadis U.S., Inc.

PROJECT NAME SWFWMD River Sediment Analysis

PROJECT NUMBER T031522.076

PROJECT LOCATION Chassahowitzka / Homosassa / Weeki Wachee Rivers



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● HM 8.5 SED	Brown, dark gray silty fine SAND (SM)	NP	NP	NP	5.74	13.81

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● HM 8.5 SED	2	0.126	0.081	0.009	97.8	0.0	75.2	16.1	8.6

Note-Sample soaked for 16 hrs (+/- 10 min)

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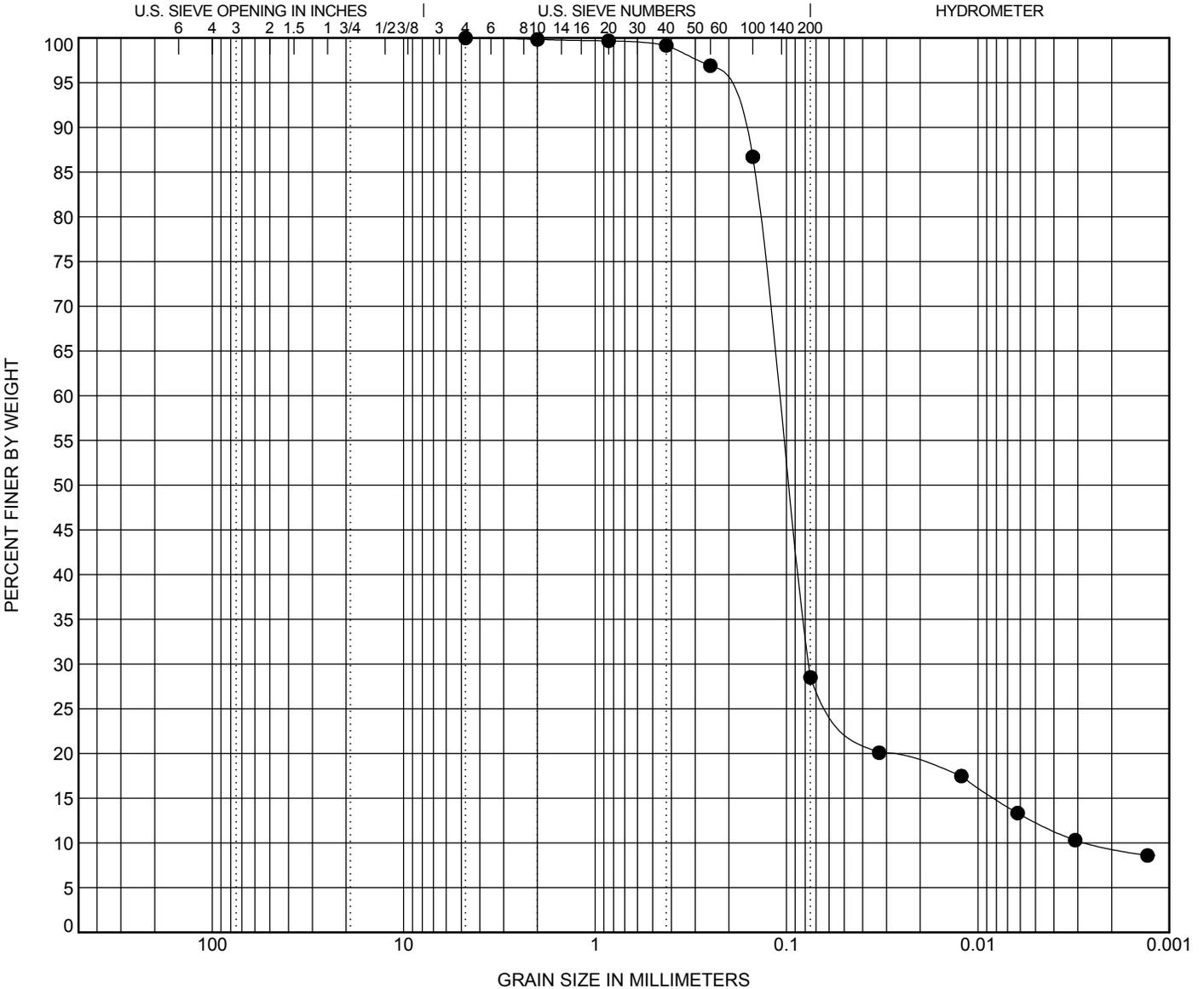
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PROJECT NUMBER T031522.076

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● HM 9.5 SED	Brown, dark gray silty fine SAND (SM)	NP	NP	NP	20.17	41.21

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● HM 9.5 SED	4.75	0.109	0.076	0.003	124.9	0.0	71.5	16.1	12.4

Note-Sample soaked for 16 hrs (+/- 10 min)



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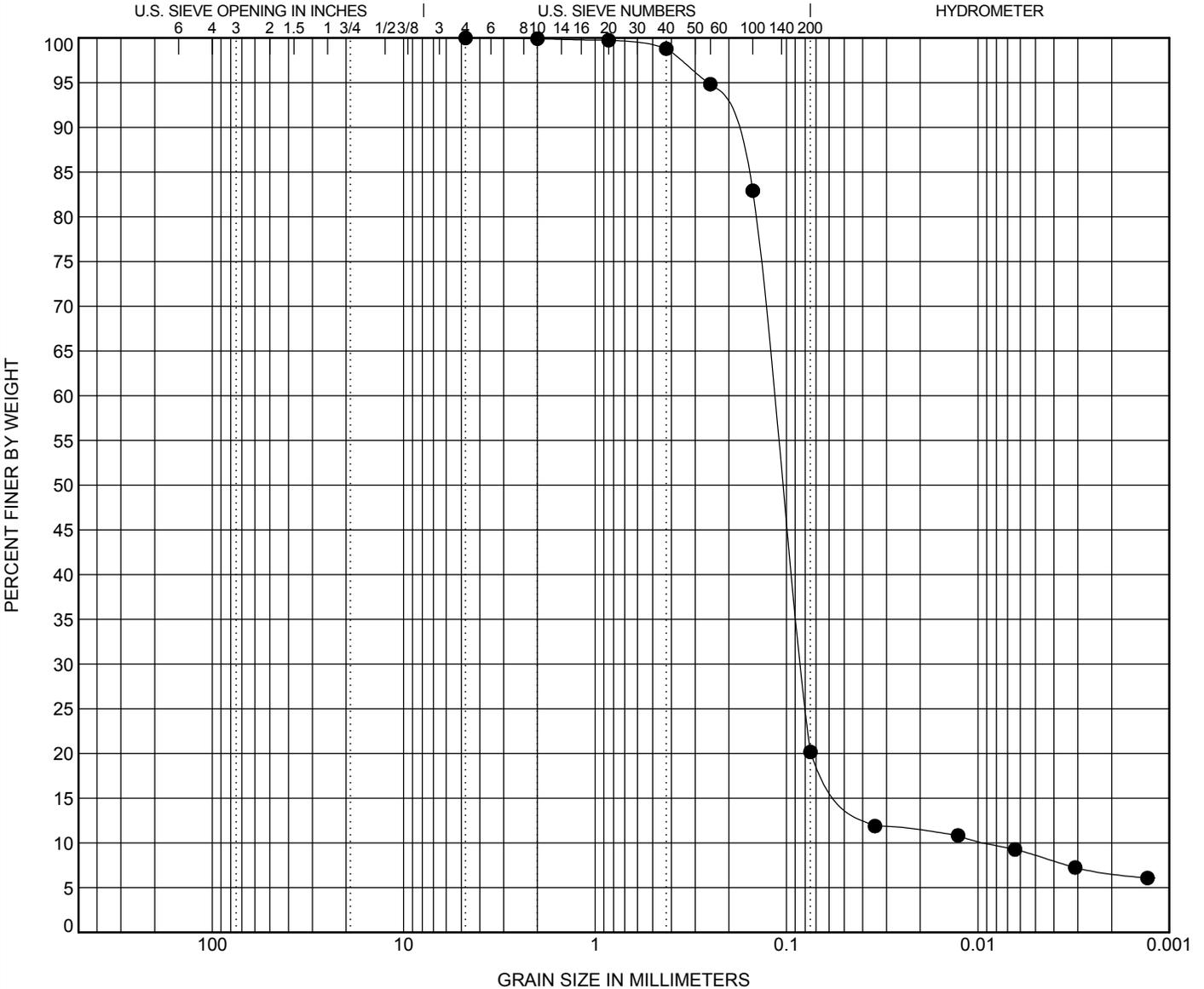
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● HM 10.0 SED	Brown, dark gray silty fine SAND (SM)	NP	NP	NP	6.82	13.24

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● HM 10.0 SED	4.75	0.116	0.084	0.009	73.1	0.0	79.8	11.6	8.6

Note-Sample soaked for 16 hrs (+/- 10 min)



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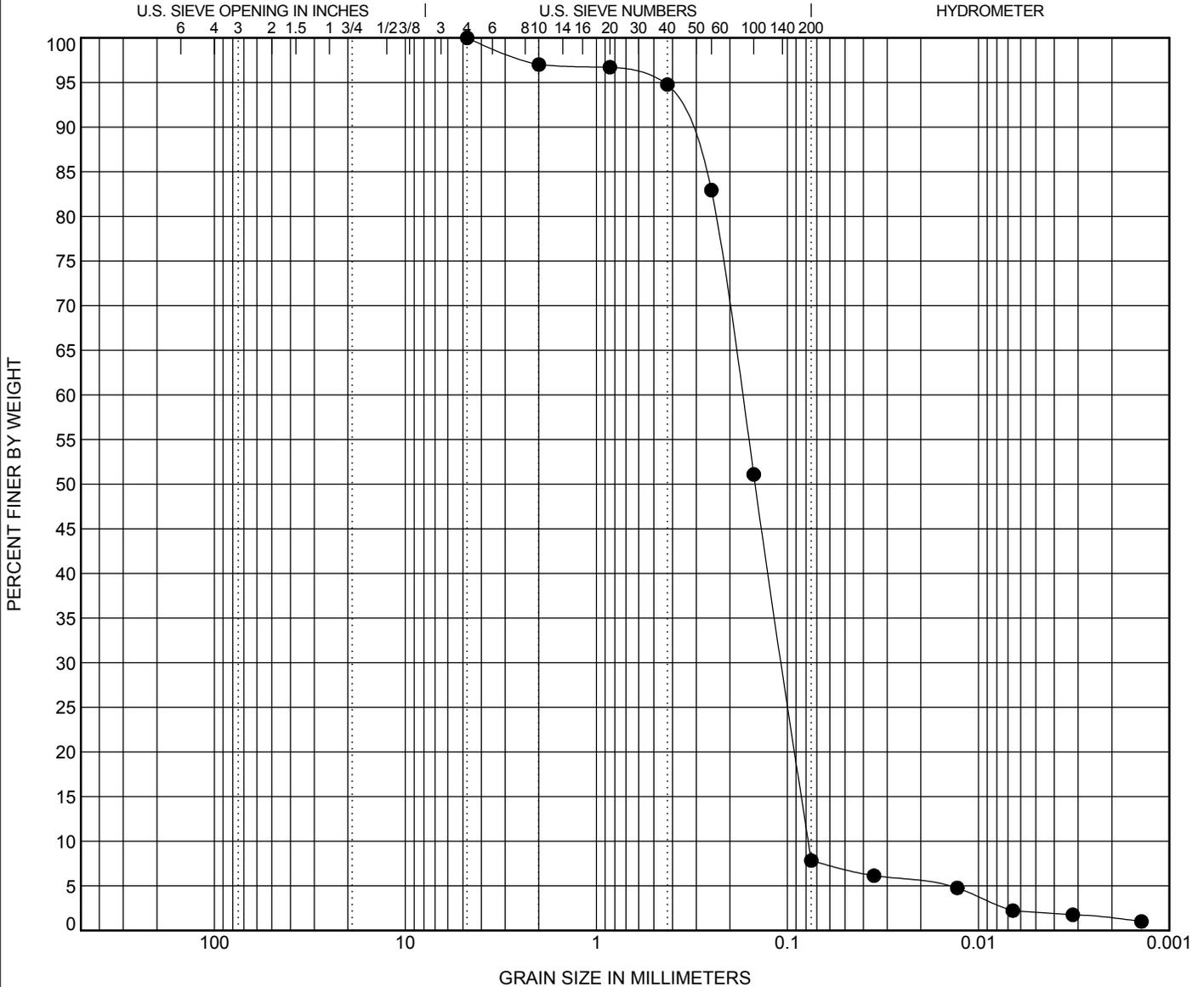
GRAIN SIZE DISTRIBUTION

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PROJECT NAME SWFWMD River Sediment Analysis

PROJECT NUMBER T031522.076

PROJECT LOCATION Chassahowitzka / Homosassa / Weeki Wachee Rivers



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● WW 1.5 SED	Brown, dark gray fine SAND with silt (SP- SM)	NP	NP	NP	0.85	2.23

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● WW 1.5 SED	4.75	0.173	0.107	0.078	50.2	0.0	92.2	5.8	2.0

Note-Sample soaked for 16 hrs (+/- 10 min)

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GRAIN SIZE DISTRIBUTION

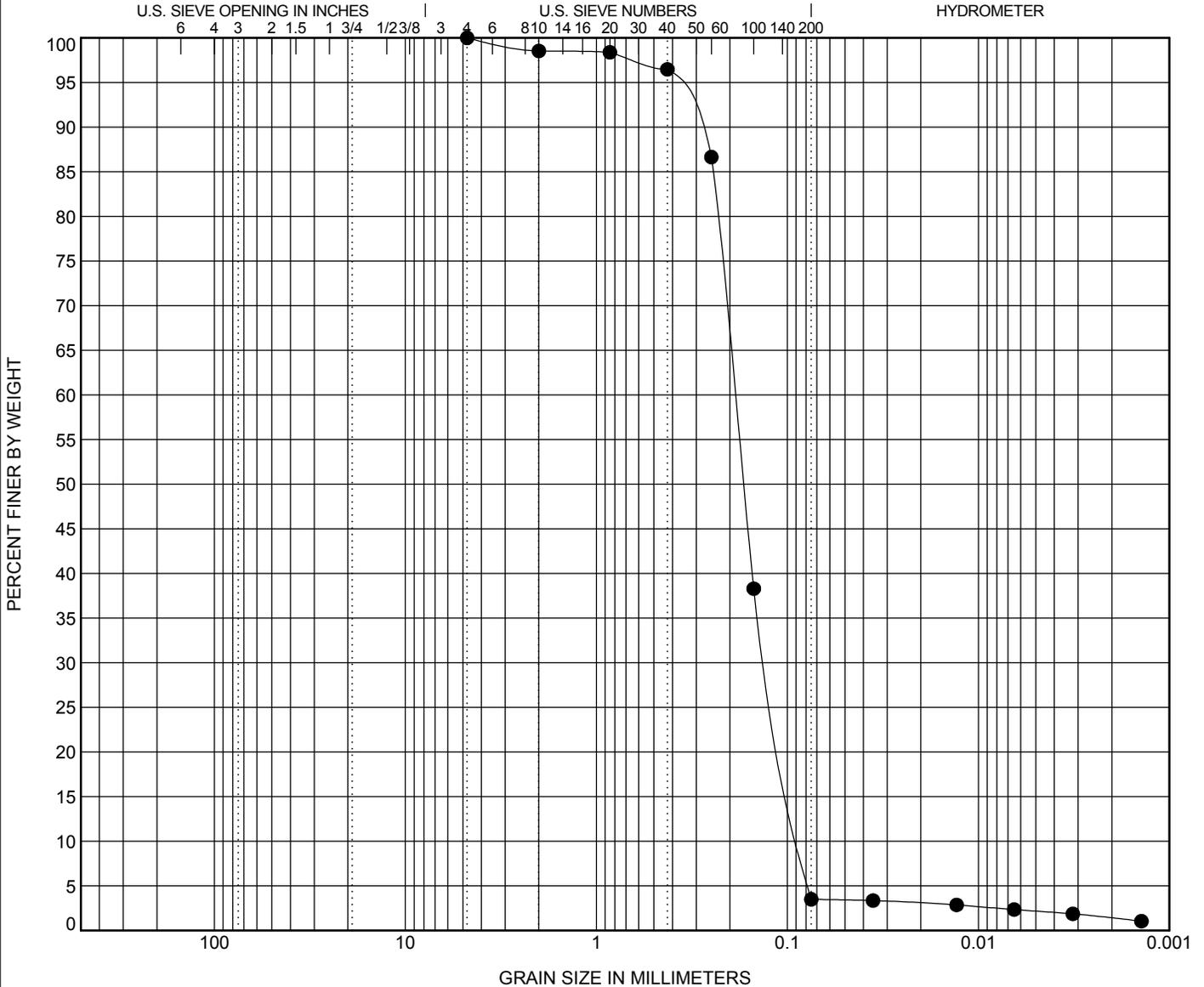
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification					LL	PL	PI	Cc	Cu
● WW 2.5 SED	Brown, dark gray fine SAND (SP)					NP	NP	NP	1.00	2.21
Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay	
● WW 2.5 SED	4.75	0.189	0.127	0.085	23.0	0.0	96.5	1.3	2.2	

Note-Sample soaked for 16 hrs (+/- 10 min)



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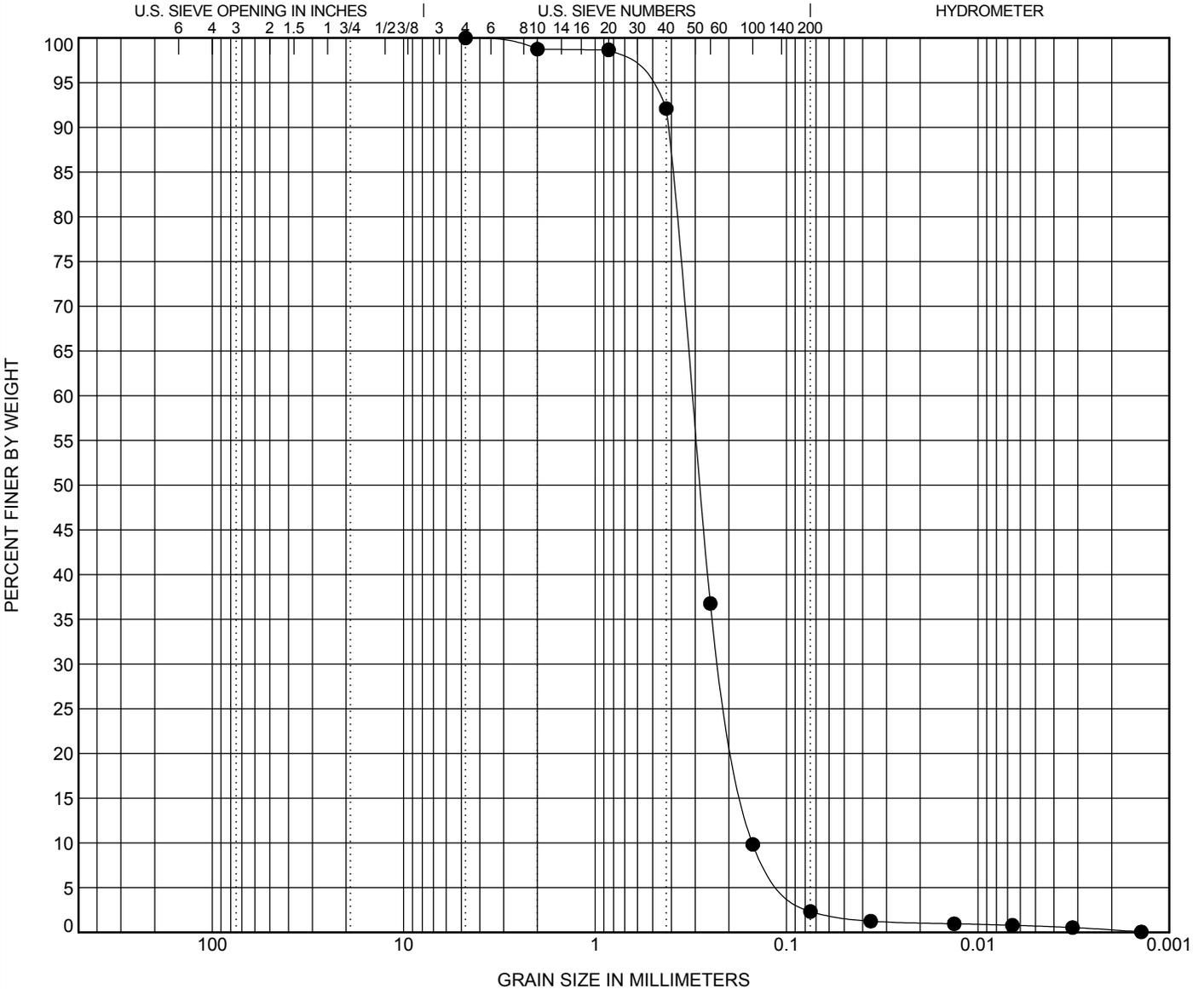
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● WW 3.5 SED	Brown, dark gray M to F SAND (SP)	NP	NP	NP	1.03	2.08

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● WW 3.5 SED	4.75	0.312	0.22	0.15	22.2	0.0	97.7	1.6	0.7

Note-Sample soaked for 16 hrs (+/- 10 min)



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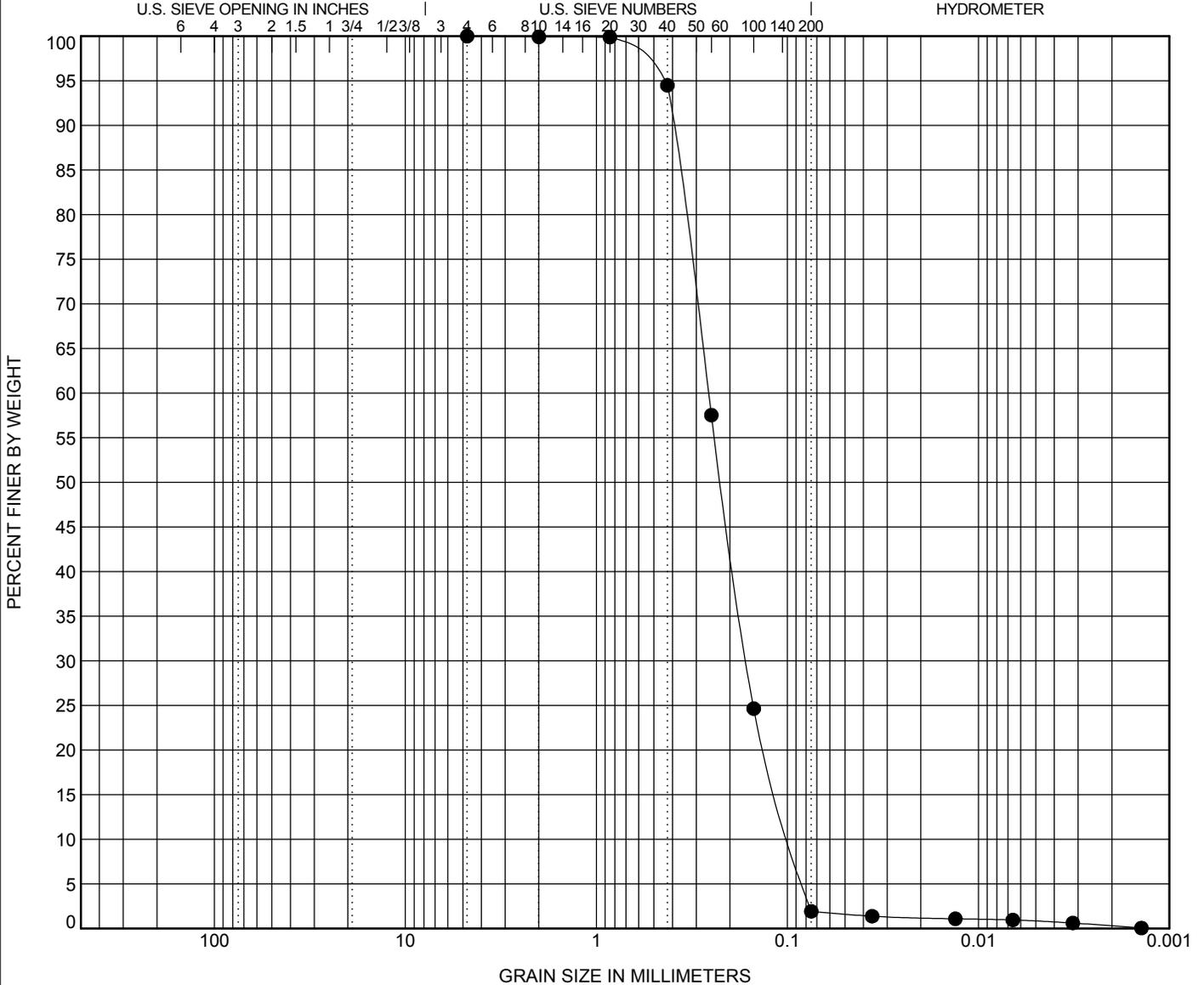
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PROJECT NUMBER T031522.076

PROJECT LOCATION Chassahowitzka / Homosassa / Weeki Wachee Rivers



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification					LL	PL	PI	Cc	Cu
● WW 4.5 SED	Brown, dark gray M to F SAND (SP)					NP	NP	NP	1.07	2.70
Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay	
● WW 4.5 SED	4.75	0.259	0.163	0.096	24.6	0.0	98.1	1.1	0.8	

Note-Sample soaked for 16 hrs (+/- 10 min)

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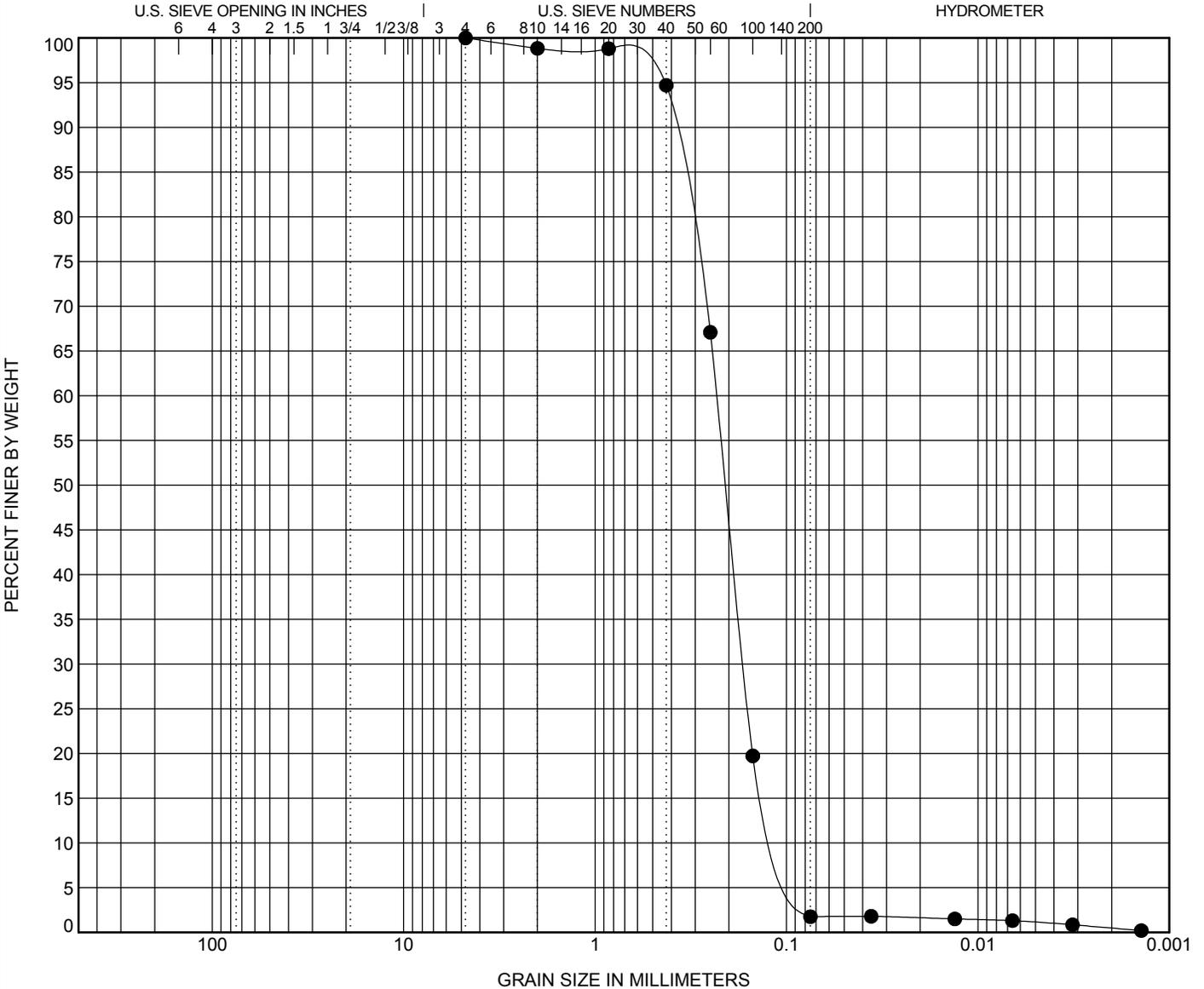
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● WW 5.25 SED	Brown, dark gray fine SAND (SP)	NP	NP	NP	1.75	3.34

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● WW 5.25 SED	4.75	0.232	0.168	0.069	25.0	0.0	98.3	0.6	1.1

Note-Sample soaked for 16 hrs (+/- 10 min)



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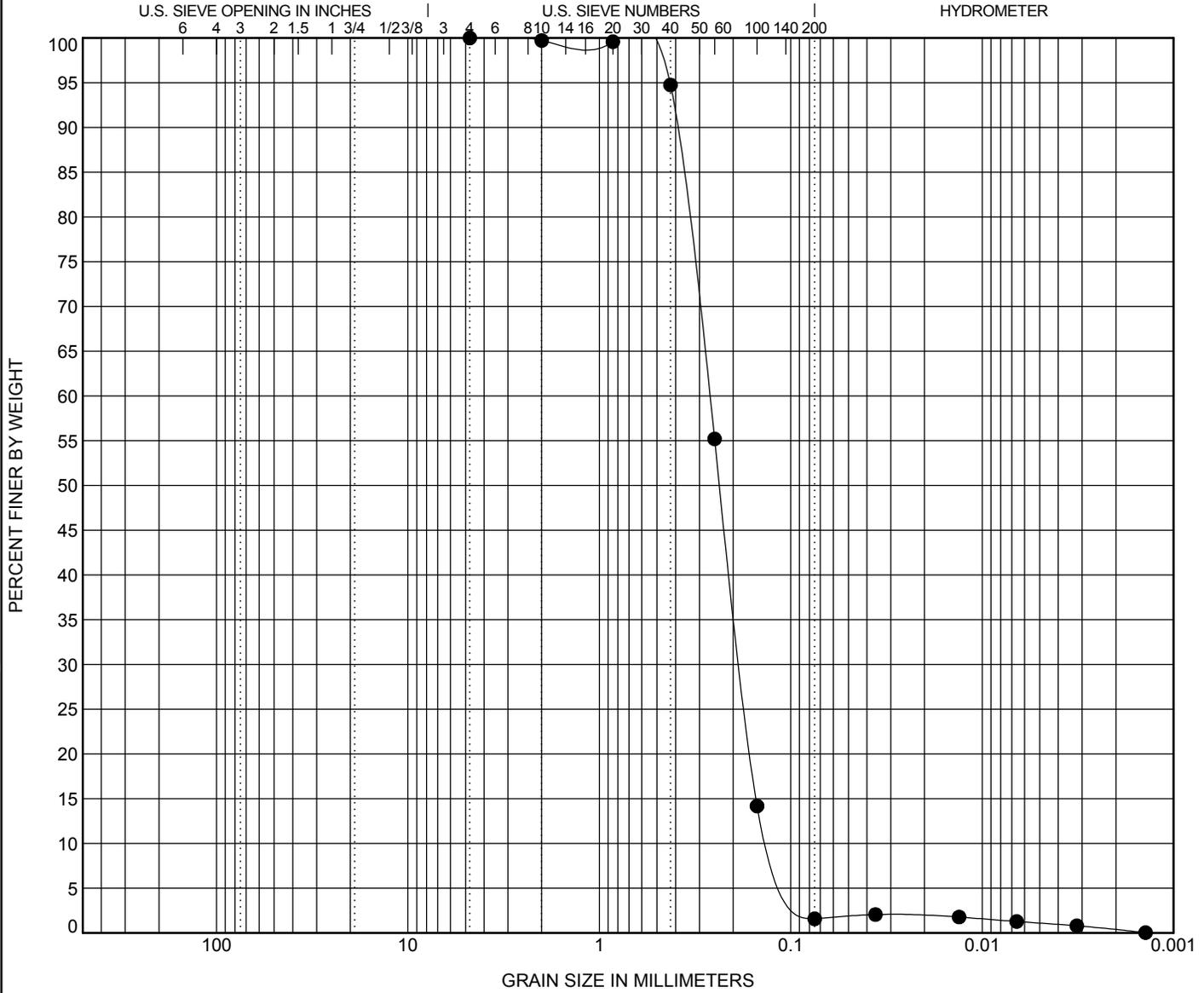
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification					LL	PL	PI	Cc	Cu
● WW 5.5 SED	Brown, dark gray fine SAND (SP)					NP	NP	NP	1.36	2.90
Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay	
● WW 5.5 SED	4.75	0.267	0.183	0.092	23.1	0.0	98.4	0.5	1.1	

Note-Sample soaked for 16 hrs (+/- 10 min)



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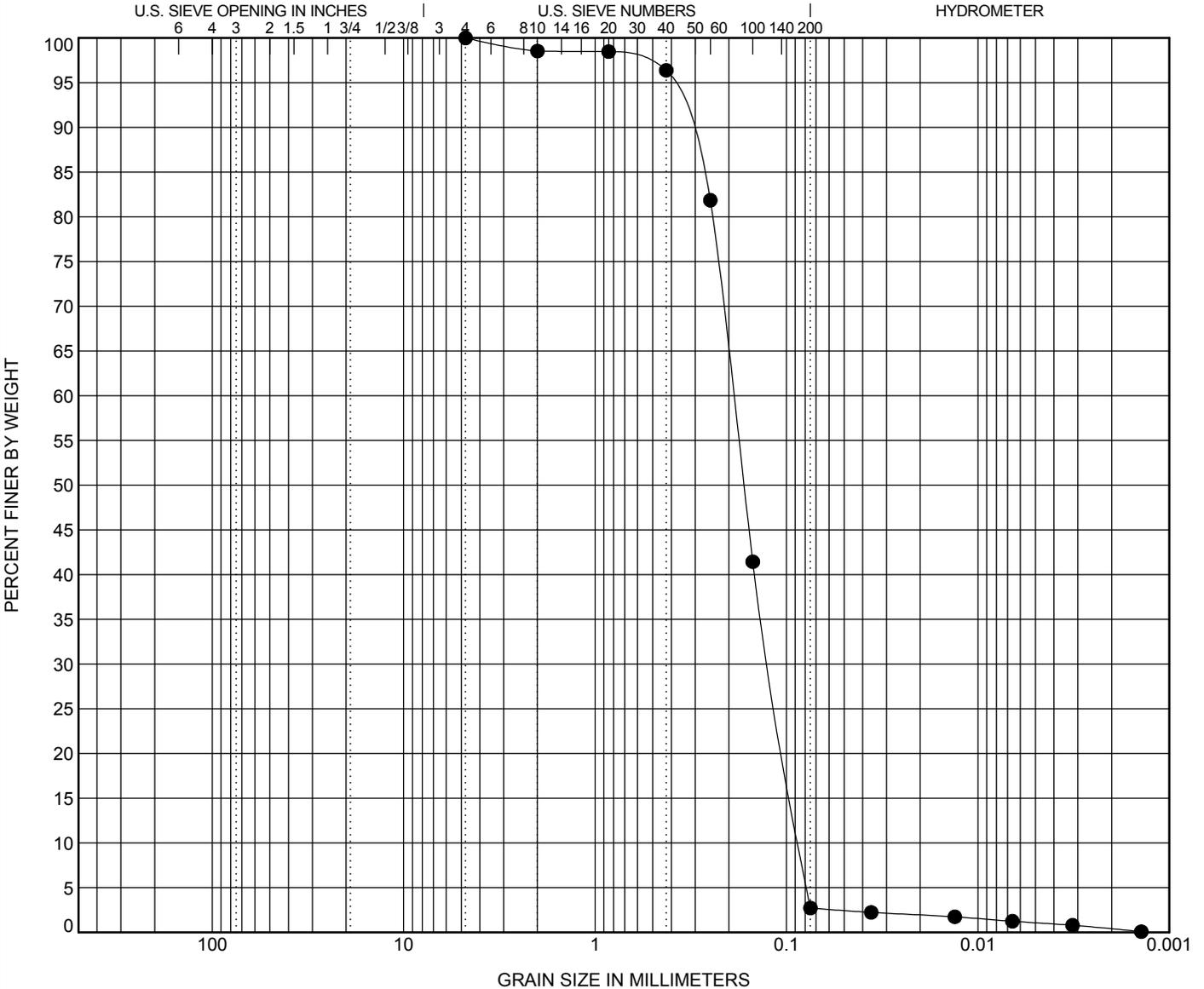
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification	LL	PL	PI	Cc	Cu
● WW 6.5 SED	Brown, dark gray fine SAND (SP)	NP	NP	NP	0.92	2.22

Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay
● WW 6.5 SED	4.75	0.19	0.122	0.085	36.8	0.0	97.3	1.7	1.1

Note-Sample soaked for 16 hrs (+/- 10 min)



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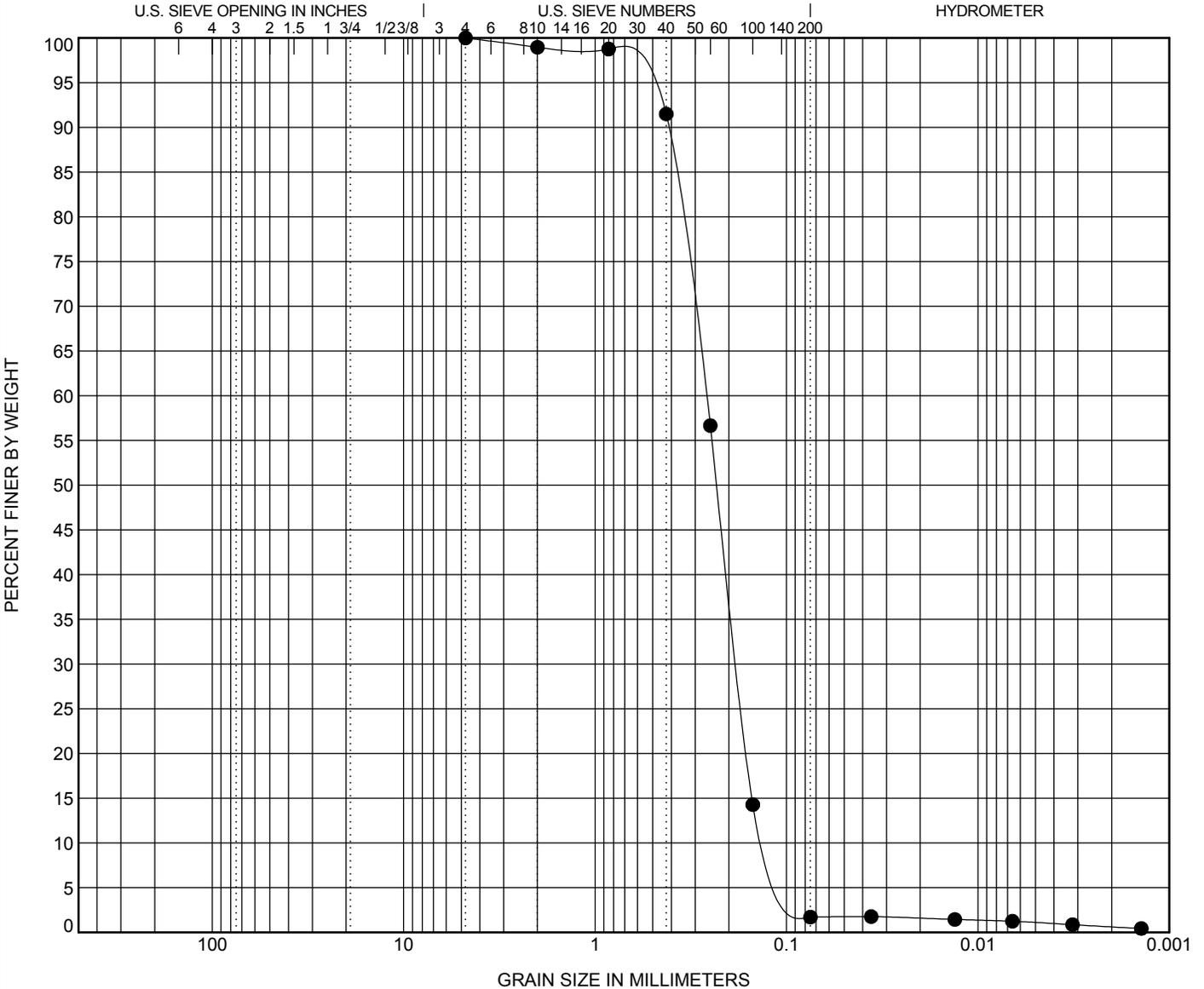
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification					LL	PL	PI	Cc	Cu
● WW 7.5 SED	Brown, dark gray fine SAND (SP)					NP	NP	NP	1.36	2.85
Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay	
● WW 7.5 SED	4.75	0.263	0.181	0.092	28.9	0.0	98.3	0.6	1.1	

Note-Sample soaked for 16 hrs (+/- 10 min)



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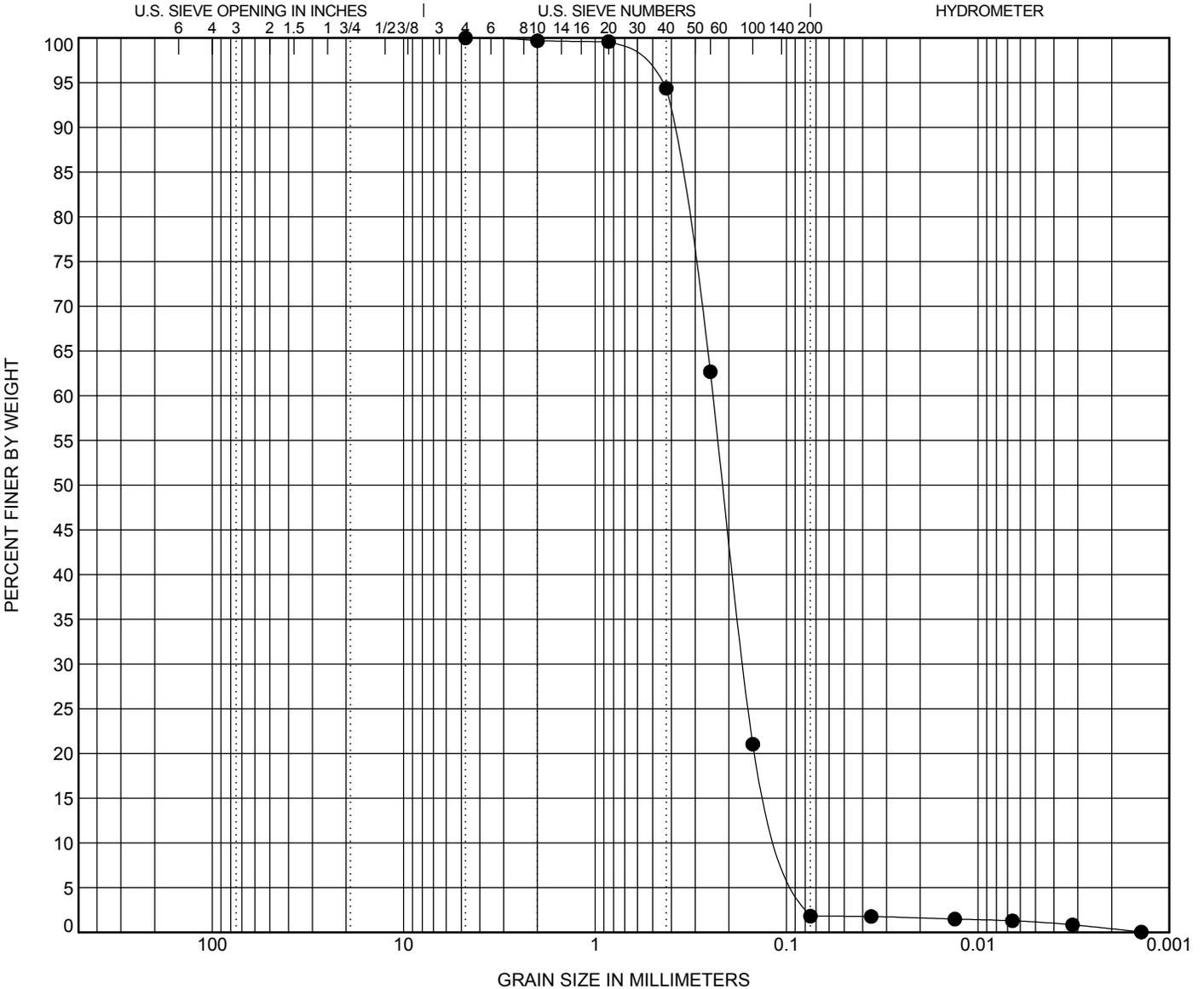
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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification					LL	PL	PI	Cc	Cu
● WW 8.5 SED	Brown, dark gray M to F SAND (SP)					NP	NP	NP	1.15	2.40
Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay	
● WW 8.5 SED	4.75	0.242	0.167	0.101	21.9	0.0	98.2	0.7	1.1	

Note-Sample soaked for 16 hrs (+/- 10 min)



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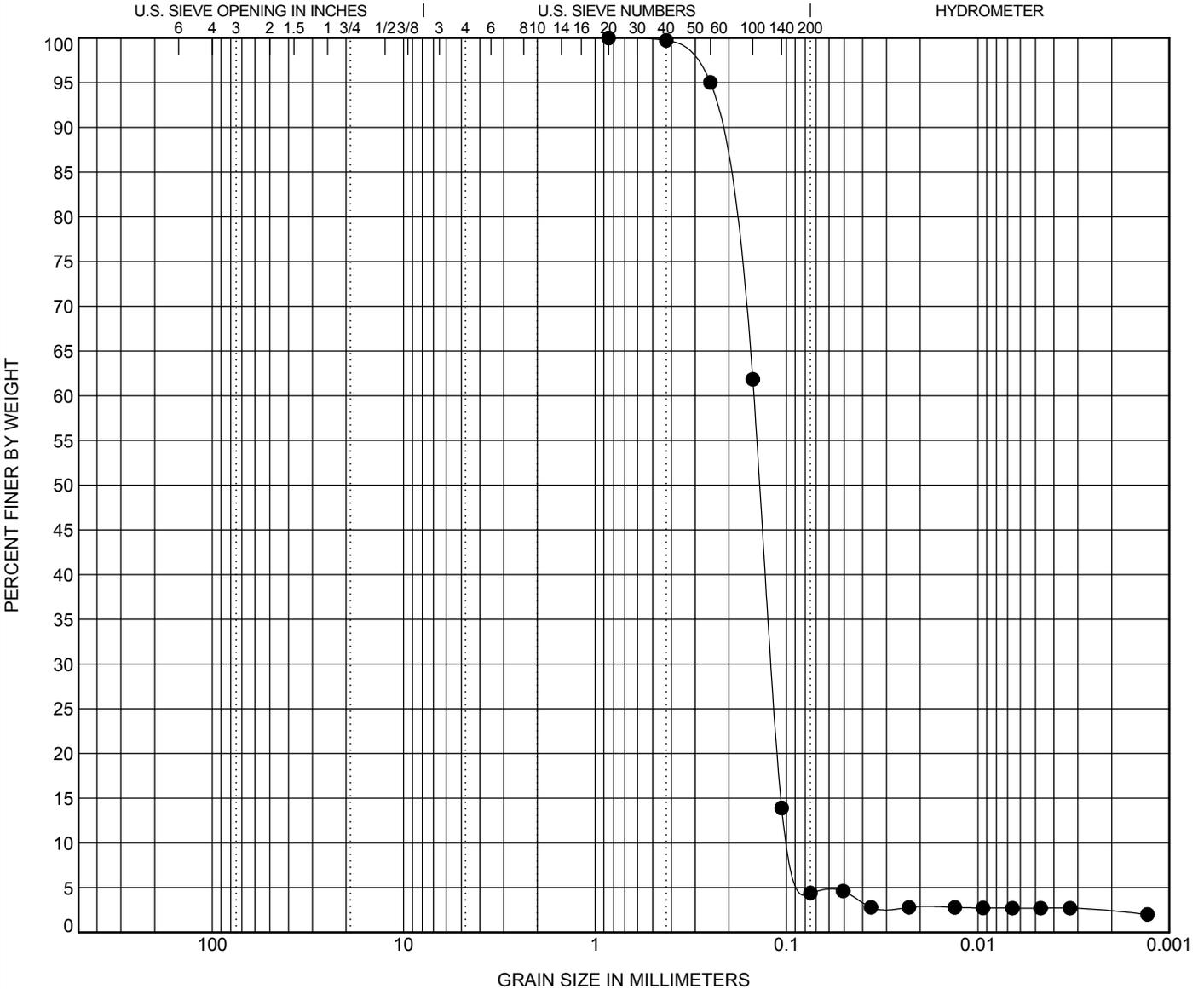
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PROJECT NUMBER **T031522.076**

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COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification	Classification					LL	PL	PI	Cc	Cu
● WW 10.0 SED	White fine SAND (SP)					NP	NP	NP	1.23	1.91
Specimen Identification	D100	D60	D30	D10	%NMC	%Gravel	%Sand	%Silt	%Clay	
● WW 10.0 SED	0.85	0.148	0.119	0.078	13.2	0.0	95.6	1.7	2.7	

Note-Sample soaked for 16 hrs (+/- 10 min)



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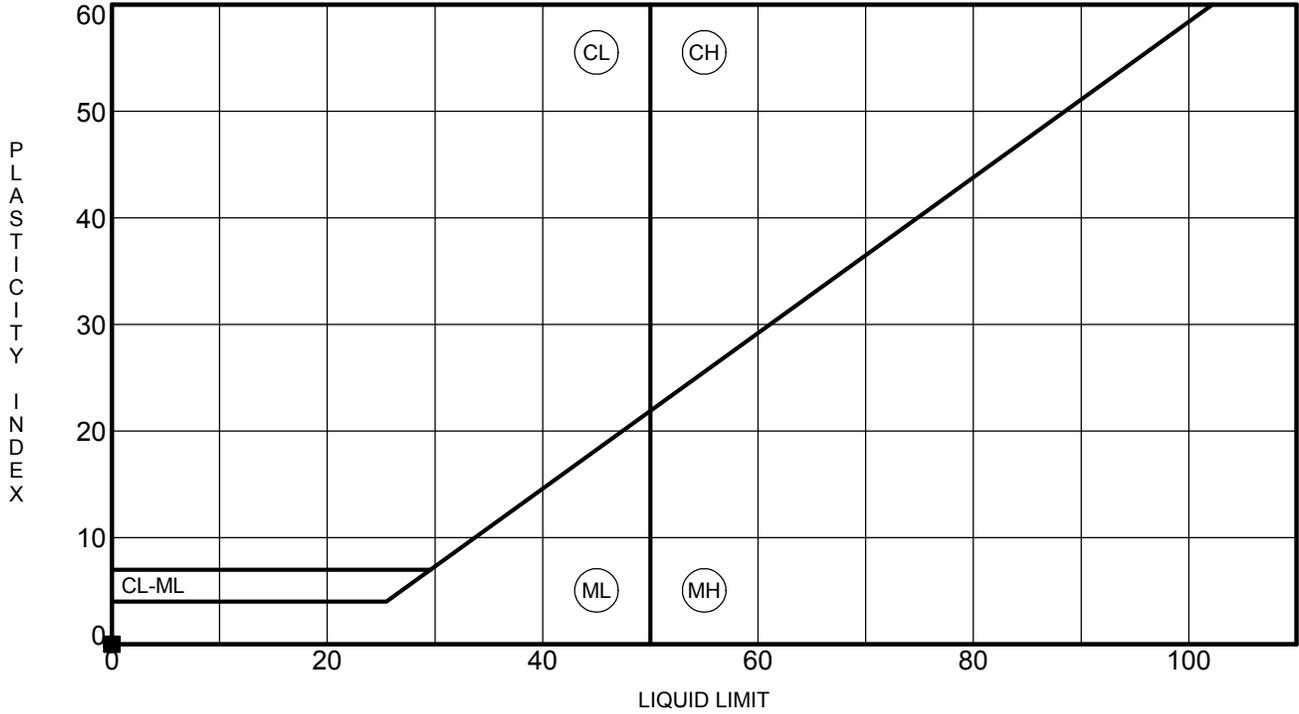
ATTERBERG LIMITS' RESULTS

CLIENT Arcadis U.S., Inc.

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Specimen Identification	LL	PL	PI	%Fines	Classification
● CZ 0.5 SED	NP	NP	NP	6	Brown, dark gray fine SAND with silt (SP- SM)
☒ CZ 1.0 SED	NP	NP	NP	6	Brown, dark gray fine SAND with silt (SP- SM)
▲ CZ 1.5 SED	NP	NP	NP	7	Brown, dark gray fine SAND with silt (SP- SM)
★ CZ 2.0 SED	NP	NP	NP	4	Brown, dark gray fine SAND (SP)
⊙ CZ 2.5 SED	NP	NP	NP	9	Brown, dark gray medium to fine SAND with silt (SP- SM)
⊕ CZ 3.0 SED	NP	NP	NP	4	Brown, dark gray fine SAND (SP)
○ CZ 3.5 SED	NP	NP	NP	16	Brown, dark gray silty fine SAND (SM)
△ CZ 4.0 SED	NP	NP	NP	11	Brown, dark gray fine SAND with silt (SP- SM)
⊗ CZ 4.5 SED	NP	NP	NP	5	Brown, dark gray fine SAND (SP)
⊕ CZ 5.0 SED	NP	NP	NP	8	Brown, dark gray fine SAND with silt (SP- SM)
□ CZ 5.5 SED	NP	NP	NP	4	Brown, dark gray fine SAND (SP)
⊕ CZ 6.0 SED	NP	NP	NP	3	Brown, dark gray fine SAND (SP)
⊕ CZ 6.5 SED	NP	NP	NP	4	Brown, dark gray fine SAND (SP)
★ CZ 7.0 SED	NP	NP	NP	5	Brown, dark gray fine SAND with silt (SP- SM)
⊗ CZ 7.5 SED	NP	NP	NP	7	Brown, dark gray fine SAND with silt (SP- SM)
■ CZ 8.0 SED	NP	NP	NP	15	Brown, dark gray silty fine SAND (SM)
◆ CZ 8.5 SED	NP	NP	NP	15	Brown, dark gray silty fine SAND (SM)
◇ CZ 9.0 SED	NP	NP	NP	8	Brown, dark gray mediu to fine SAND with silt (SP- SM)
× CZ 9.5 SED	NP	NP	NP	11	Brown, dark gray fine SAND with silt (SP- SM)
⬛ CZ 10.0 SED	NP	NP	NP	10	Dark C to F SAND with silt and shell (SP-SM)

%Fines- % of total soil (by weight) passing U.S. No. 200 sieve



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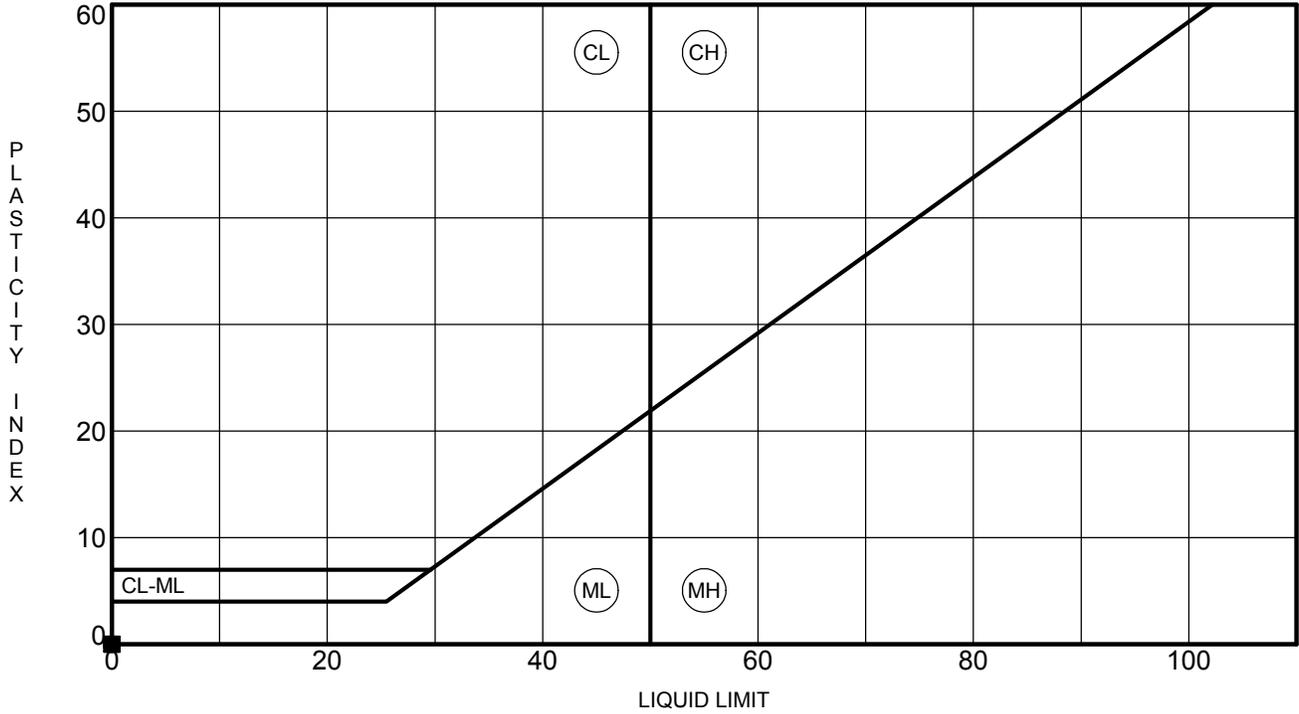
ATTERBERG LIMITS' RESULTS

CLIENT Arcadis U.S., Inc.

PROJECT NAME SWFWMD River Sediment Analysis

PROJECT NUMBER T031522.076

PROJECT LOCATION Chassahowitzka / Homosassa / Weeki Wachee Rivers



ATTERBERG LIMIT FOR GDOT - GINT STD. US. LAB. GDT - 11/30/15 14:22 - Z:\PROP AND RPT\T\PA\TPA 15 PRJ\ST031522.076.G SWFWMD SEDIMENT SAMPLING ARCADIS LABORATORY TESTING.GPJ

Specimen Identification	LL	PL	PI	%Fines	Classification
● HM 1.5 SED	NP	NP	NP	4	Brown, dark gray fine SAND (SP)
☒ HM 2.5 SED	NP	NP	NP	6	Brown, dark gray fine SAND with silt (SP- SM)
▲ HM 3.5 SED	NP	NP	NP	10	Brown, dark gray fine SAND with silt (SP- SM)
★ HM 4.5 SED	NP	NP	NP	5	Brown, dark gray fine SAND (SP)
⊙ HM 5.5 SED	NP	NP	NP	15	Brown, dark gray silty fine SAND (SM)
⊕ HM 6.0 SED	NP	NP	NP	8	Brown, dark gray fine SAND with silt (SP- SM)
○ HM 6.5 SED	NP	NP	NP	9	Brown, dark gray fine SAND with silt (SP- SM)
△ HM 7.0 SED	NP	NP	NP	24	Brown, dark gray silty fine SAND (SM)
⊗ HM 7.5 SED	NP	NP	NP	14	Brown, dark gray silty fine SAND (SM)
⊕ HM 8.5 SED	NP	NP	NP	25	Brown, dark gray silty fine SAND (SM)
□ HM 9.5 SED	NP	NP	NP	29	Brown, dark gray silty fine SAND (SM)
⊕ HM 10.0 SED	NP	NP	NP	20	Brown, dark gray silty fine SAND (SM)
● WW 1.5 SED	NP	NP	NP	8	Brown, dark gray fine SAND with silt (SP- SM)
★ WW 2.5 SED	NP	NP	NP	3	Brown, dark gray fine SAND (SP)
⊗ WW 3.5 SED	NP	NP	NP	2	Brown, dark gray M to F SAND (SP)
■ WW 4.5 SED	NP	NP	NP	2	Brown, dark gray M to F SAND (SP)
◆ WW 5.25 SED	NP	NP	NP	2	Brown, dark gray fine SAND (SP)
◇ WW 5.5 SED	NP	NP	NP	2	Brown, dark gray fine SAND (SP)
× WW 6.5 SED	NP	NP	NP	3	Brown, dark gray fine SAND (SP)
● WW 7.5 SED	NP	NP	NP	2	Brown, dark gray fine SAND (SP)

%Fines- % of total soil (by weight) passing U.S. No. 200 sieve



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Kennesaw, GA 30144

ATTERBERG LIMITS' RESULTS

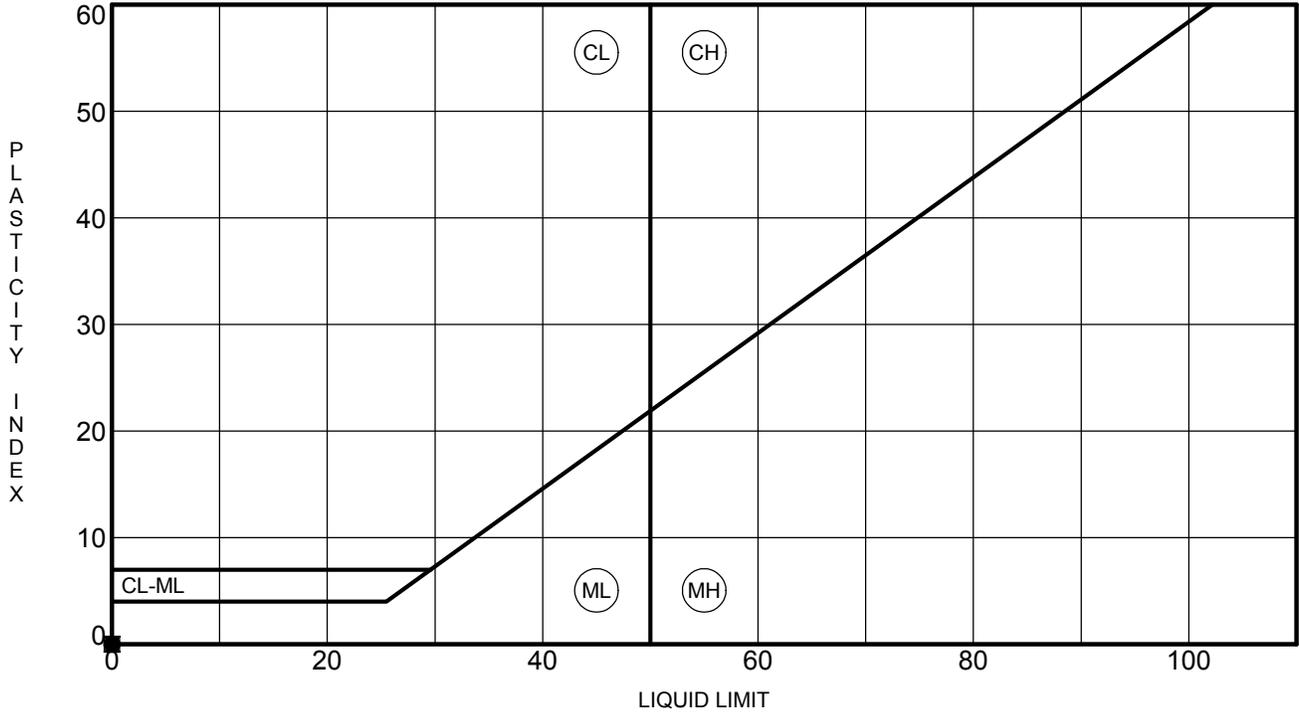
CLIENT Arcadis U.S., Inc.

PROJECT NAME SWFWMD River Sediment Analysis

PROJECT NUMBER T031522.076

PROJECT LOCATION Chassahowitzka / Homosassa / Weeki Wachee Rivers

ATTERBERG LIMIT FOR GDOT - GINT STD US LAB.GDT - 11/30/15 14:22 - Z:\PROP AND RPT\T\T\TPA 15 PRJST031522.076 - G SWFWMD SEDIMENT SAMPLING ARCADIS LABORATORY TESTING.GPJ



Specimen Identification	LL	PL	PI	%Fines	Classification
<input type="radio"/> WW 8.5 SED	NP	NP	NP	2	Brown, dark gray M to F SAND (SP)
<input checked="" type="checkbox"/> WW 10.0 SED	NP	NP	NP	4	White fine SAND (SP)

%Fines- % of total soil (by weight) passing U.S. No. 200 sieve

Laboratory Test Results
SWFWMD Coastal Rivers Sediment Analysis
MC² Project No. T011522.076

Sample No.	Natural Moisture Content (%)	Organic Content (%)	Specific Gravity	Passing No. 200 Sieve (%)	Full Graduation with Hydrometer see attached Curves	USCS Soil Classification
CZ 10.0 SED	67.8	4.8	2.47	10.0	"	SP - SM with Shell
WW 10.0 SED	13.2	0.3	2.71	4.0	"	SP

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

TestAmerica Job ID: 660-68566-1

Client Project/Site: SWFWMD Coastal Rivers
Revision: 2

For:

ARCADIS U.S., Inc.
14025 Riveredge Drive
Suite 600
Tampa, Florida 33637

Attn: Ms. KT Moran



Authorized for release by:
12/3/2015 11:27:14 AM

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

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

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

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Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

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.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
V	Indicates that the analyte was detected at or above the method detection limit 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.

General Chemistry

Qualifier	Qualifier Description
Q	Sample held beyond the accepted holding time.
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.
J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
V	Indicates that the analyte was detected at or above the method detection limit 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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
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)

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Job ID: 660-68566-1

Laboratory: TestAmerica Tampa

Narrative

Job Narrative 660-68566-1

Comments

Report revised to correct the dissolved metals reporting; remove Mo and change units on Mn to ug/L. Report revised to reformat the sample IDs in jobs 660-68566 and 660-68601.

Receipt

The samples were received on 8/13/2015 6:45 AM, 8/14/2015 6:18 AM, 10/15/2015 8:30 AM, 10/16/2015 6:10 AM, 10/17/2015 6:35 AM, 10/20/2015 8:10 AM, 10/21/2015 6:05 AM, 10/22/2015 6:05 AM, 10/23/2015 8:00 AM, 10/24/2015 6:15 AM, 10/27/2015 6:05 AM and 10/28/2015 6:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 20 coolers at receipt time were 0.2° C, 0.4° C, 0.4° C, 0.5° C, 0.6° C, 0.7° C, 1.0° C, 1.1° C, 1.1° C, 1.5° C, 1.7° C, 1.7° C, 1.9° C, 2.1° C, 2.3° C, 2.5° C, 2.7° C, 2.7° C, 2.9° C and 3.0° C.

Metals

Method(s) 6010B: The matrix spike (MS) for the following sample associated with preparation batch 400-278963 and analytical batch 400-279391 recovered outside acceptance limits (high biased) for Iron. CZ 10 SED (08/12/2015) (660-68566-3). A post digestion spike (PDS) was performed with acceptable recoveries obtained. The results have been reported.

Method(s) 6010B: The method blank for preparation batch 400-279662 and analytical batch 400-280161 contained Manganese above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-279986 and analytical batch 400-280815 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6010B, 6010C: The method blank for preparation batch 400-280181 and analytical batch 400-281073 contained Copper above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 6010B: The matrix spike duplicate (MSD) for the following sample associated with preparation batch 400-280268 and analytical batch 400-281232 recovered outside acceptance limits (high biased) for Iron. (660-69974-C-1-G MSD). A post digestion spike (PDS) was performed with acceptable recoveries obtained. The results have been reported.

Method(s) 6010B: Sample diluted due to saturated level of sodium in the matrix. CZ 10 PW (08/12/2015) (660-68566-2). Elevated reporting limits (RLs) are provided. Prep batch # 162343. Analytical batch # 162381.

Method(s) 6010B: Sample diluted due to saturated level of sodium in the matrix that prevented an accurate result at 1x.CZ 2.5 PW (10/14/2015) (660-69823-11). Elevated reporting limits (RLs) are provided. Prep batch # 162719. Analytical batch # 162833.

Method(s) 6010B: The method blank for 162895 contained magnesium at the method detection limit (MDL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank. Analytical batch # 163037.

Method(s) 6010B: The method blank for 162798 contained magnesium at the method detection limit (MDL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank. Analytical batch # 163037.

Method(s) 6010B: The method blank for 162982 contained magnesium at the method detection limit (MDL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank. Analytical batch # 163037.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

Method(s) 353.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 270080 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory

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Client: ARCADIS U.S., Inc.
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Laboratory: TestAmerica Tampa (Continued)

control sample (LCS) recovery was within acceptance limits.

Method(s) 365.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-269916 and analytical batch 400-269966 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 350.1: The matrix spike (MS) recoveries for analytical batch 400-272251 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 272377 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 365.4: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 400-272361 and analytical batch 400-272631 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method(s) 351.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 400-272362 and analytical batch 400-272696 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method(s) SM 3500 FE B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 272819 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 365.4: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-279169 and analytical batch 400-279639 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 365.4: The method blank for preparation batch 400-279475 and analytical batch 400-279647 contained Total Kjeldahl Phosphorus above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 354.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-279303 and analytical batch 400-279306 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 365.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-279302 and analytical batch 400-279305 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 351.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-279167 and 400-279168 and analytical batch 400-279703 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 351.2: The following sample was diluted to bring the concentration of target analytes within the calibration range: (400-112404-A-1-F). Elevated reporting limits (RLs) are provided.

Method(s) 351.2: The matrix spike (MS) recoveries for preparation batch 400-279474 and analytical batch 400-279716 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 354.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-279979 and analytical batch 400-279997 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Case Narrative

Client: ARCADIS U.S., Inc.
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Laboratory: TestAmerica Tampa (Continued)

Method(s) 351.2: The matrix spike (MS) recoveries for preparation batch 400-279717 and analytical batch 400-280087 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 351.2: The matrix spike (MS) recoveries and precision for preparation batch 400-279705 and analytical batch 400-280105 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method(s) 351.2: The following samples was diluted to bring the concentration of target analytes within the calibration range: CZ 8.0 SED (10/16/2015) (660-69879-10) and CZ 8.5 SED (10/16/2015) (660-69879-11). Elevated reporting limits (RLs) are provided.

Method(s) 350.1: The matrix spike duplicate (MSD) recoveries for Prep Batch 280072 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 365.4: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-279706 and analytical batch 400-280316 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 325.2, SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-280335 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 325.2, SM 4500 Cl- E: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for analytical batch 400-280335 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits.

Method(s) SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-280347 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 354.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-280238 and analytical batch 400-280294 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 325.2, SM 4500 Cl- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-280357 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 365.4: The method blank for preparation batch 400-280029 and analytical batch 400-280320 contained Total Kjeldahl Phosphorus above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 365.4: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-280029 and analytical batch 400-280320 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 353.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for Prep Batch 280074 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 353.2: The method blank for PRep Batch 280074 contained Nitrate/Nitrite (NO₂/NO₃) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

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Laboratory: TestAmerica Tampa (Continued)

Method(s) 353.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for Prep Batch 280061 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 365.4: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-280060 and analytical batch 400-280527 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 365.4: The matrix spike duplicate (MSD) recoveries for preparation batch 400-280254 and analytical batch 400-280527 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 365.4: The method blank for preparation batch 400-280254 and analytical batch 400-280527 contained Total Kjeldahl Phosphorus above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 365.4: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 400-280313 and analytical batch 400-280562 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method(s) 365.4: The method blank for preparation batch 400-280313 and analytical batch 400-280562 contained Total Kjeldahl Phosphorus above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 351.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-280026 and 400-280056 and analytical batch 400-280655 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 351.2: The following samples was diluted to bring the concentration of target analytes within the calibration range: HM 10.5 SED (10/19/2015) (660-69893-5), HM 10.0 SED (10/19/2015) (660-69893-6) and HM 9.5 SED (10/19/2015) (660-69893-7). Elevated reporting limits (RLs) are provided.

Method(s) 365.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-280353 and analytical batch 400-280355 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 351.2: The following samples was diluted to bring the concentration of target analytes within the calibration range: HM 9.0 SED (10/19/2015) (660-69893-8), HM 8.5 SED (10/20/2015) (660-69919-13), HM 7.5 SED (10/21/2015) (660-69974-2), HM 7.0 SED (10/21/2015) (660-69974-3), HM 5.5 SED (10/21/2015) (660-69974-6), HM 4.0 SED (10/21/2015) (660-69974-9) and HM 3.5 SED (10/21/2015) (660-69974-10). Elevated reporting limits (RLs) are provided.

Method(s) 351.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-280253 and 400-280312 and analytical batch 400-280682 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 351.2: The method blank for preparation batch 400-280253 and analytical batch 400-280682 contained Total Kjeldahl Nitrogen above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 350.1, 4500 NH3 H: The following samples showed a negative result greater than the reporting limit CZ 0.5 SW (10/14/2015) (660-69823-2) and CZ 1.5 PW (10/14/2015) (660-69823-7). These samples were re-analyzed with a dilution and were non-detect, therefore the original result is reported.

Method(s) 350.1, 4500 NH3 H: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-280774 were outside

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Client: ARCADIS U.S., Inc.
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TestAmerica Job ID: 660-68566-1

Job ID: 660-68566-1 (Continued)

Laboratory: TestAmerica Tampa (Continued)

control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 350.1: The following samples showed a negative result greater than the reporting limit CZ 2.5 SW (10/14/2015) (660-69823-10), CZ 3.5 SW (10/15/2015) (660-69852-1), CZ 4.5 SW (10/15/2015) (660-69852-3) and CZ 5.5 SW (10/15/2015) (660-69852-5). These samples were re-analyzed with a dilution and were non-detect, therefore the original result is reported.

Method(s) 351.2: The matrix spike (MS) recoveries for preparation batch 400-280732 and analytical batch 400-281013 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 351.2: The following sample was diluted to bring the concentration of target analytes within the calibration range: WW7.5 PW(10/23/2015) (660-70026-2). Elevated reporting limits (RLs) are provided.

Method(s) 353.2, SM 4500 NO3 F: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-280980 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 353.2, SM 4500 NO3 F: The method blank for analytical batch 400-280980 contained Nitrate/Nitrite (NO2/NO3) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 353.2, SM 4500 NO3 F: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-281012 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 353.2, SM 4500 NO3 F: The method blank for analytical batch 400-281012 contained Nitrate/Nitrite (NO2/NO3) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 351.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-280738 and analytical batch 400-281105 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 351.2: The following sample was diluted to bring the concentration of target analytes within the calibration range: HM1.5SED(10/22/2015) (660-70002-6). Elevated reporting limits (RLs) are provided.

Method(s) 353.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-281116 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 353.2: The sample duplicate precision for the following sample associated with analytical batch 400-281126 was outside control limits: (660-69879-A-5 MSD). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

Method(s) 365.4: The matrix spike (MS) recoveries for preparation batch 400-280734 and analytical batch 400-281128 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 365.4: The sample duplicate precision for the following sample associated with preparation batch 400-280734 and analytical batch 400-281128 was outside control limits: (400-112849-D-1-F MSD). Non-homogeneity of the sample matrix is suspected.

Method(s) 350.1: The following samples showed a negative result greater than the reporting limit CZ 6.5 SW (10/16/2015) (660-69879-1) and CZ 7.5 SW (10/16/2015) (660-69879-3). These samples were re-analyzed with a dilution and were non-detect, therefore the original result is reported.

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Job ID: 660-68566-1 (Continued)

Laboratory: TestAmerica Tampa (Continued)

Method(s) 350.1: The following samples showed a negative result greater than the reporting limit CZ 8.5 SW (10/16/2015) (660-69879-5), HM 10.5 SW (10/19/2015) (660-69893-1), HM 10.5 PW (10/19/2015) (660-69893-2), HM 9.5 SW (10/19/2015) (660-69893-3), HM8.5 SW (10/20/2015) (660-69919-1), HM7.5 SW (10/20/2015) (660-69919-3), HM7.5 PW (10/20/2015) (660-69919-4), HM6.5 SW (10-20-2015) (660-69919-5), HM5.5 SW (10-20-2015) (660-69919-7), HM4.5 PW (10-20-2015) (660-69919-10), HM3.5 SW (10-20-2015) (660-69919-11) and HM 2.5 SW (10/21/2015) (660-69974-12). These samples were re-analyzed with a dilution and were non-detect, therefore the original result is reported.

Method(s) 350.1: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-281200 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 365.4: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-280741 and analytical batch 400-281158 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 365.4: The method blank for preparation batch 400-280741 and analytical batch 400-281158 contained Phosphorus, Total above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 365.4: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-280978 and analytical batch 400-281217 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 365.4: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-281010 and analytical batch 400-281217 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 365.4: The following sample was diluted to bring the concentration of target analytes within the calibration range: (400-112969-B-1-D). Elevated reporting limits (RLs) are provided.

Method(s) SM 3500 FE D: The following sample was diluted to bring the concentration of target analytes within the calibration range: WW7.5 PW(10/23/2015) (660-70026-2). Elevated reporting limits (RLs) are provided.

Method(s) 350.1: The following sample was diluted to bring the concentration of target analytes within the calibration range: HM4.5 SW(10/20/2015) (660-69919-9). Elevated reporting limits (RLs) are provided.

Method(s) 365.4: The method blank for preparation batch 400-281199 and analytical batch 400-281339 contained Phosphorus, Total above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 365.4: The matrix spike duplicate (MSD) recoveries for preparation batch 400-281199 and analytical batch 400-281339 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 351.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-280976 and 400-281006 and analytical batch 400-281362 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 325.2, SM 4500 CI- E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 281412 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 9038, SM 4500 SO4 E: The matrix spike (MS) recovery for 281411 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Case Narrative

Client: ARCADIS U.S., Inc.
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Laboratory: TestAmerica Tampa (Continued)

Method(s) 353.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 281558 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 353.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 281568 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 350.1: Ammonia (as N) The matrix spike / matrix spike duplicate (MS/MSD) recoveries for Prep Batch 281561 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 350.1: Ammonia (as N) The matrix spike duplicate (MSD) recoveries for prep batch 281583 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 350.1: The following samples showed a negative result greater than the reporting limit WW9.5SED(10/22/2015) (660-70002-8), WW8.5SED(10/22/2015) (660-70002-10), WW8.0SED(10/23/2015) (660-70026-5), WW7.5SED(10/23/2015) (660-70026-6), WW7.0SED(10/23/2015) (660-70026-7), WW6.5SED(10/23/2015) (660-70026-8) and WW6.0SED(10/23/2015) (660-70026-9). These samples were re-analyzed with a dilution and were non-detect, therefore the original result is reported.
Ammonia (as N)

Method(s) 350.1, 4500 NH3 H: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-282218 were outside control limits for Ammonia. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 350.1, 4500 NH3 H: The following samples showed a negative result greater than the reporting limit for Ammonia; WW8.5SW(10/22/2015) (660-70002-3), WW7.5SW(10/23/2015) (660-70026-1), WW5.5 SW (10/26/2015) (660-70053-7) and WW5.25 SW (10/26/2015) (660-70053-9). These samples were re-analyzed with a dilution and were non-detect, therefore the original result is reported.

Method(s) 350.1: The following sample was diluted to bring the concentration of target analytes within the calibration range for Ammonia (as N): WW7.5 PW(10/23/2015) (660-70026-2). Elevated reporting limits (RLs) are provided.

Method(s) 350.1, 4500 NH3 H: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-282233 were outside control limits for Ammonia. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 350.1, 4500 NH3 H: The following sample showed a negative result greater than the reporting limit for Ammonia (as N); WW4.5 SW (10/26/2015) (660-70053-11). These samples were re-analyzed with a dilution and were non-detect, therefore the original result is reported.

Method(s) 351.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-281976 and analytical batch 400-282264 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 350.1, 4500 NH3 H: The sample duplicate precision for the following sample associated with analytical batch 400-282218 was outside control limits: (400-113038-C-23 MSD). The associated Laboratory Control Sample / Laboratory Control Sample Duplicate (LCS/LCSD) precision met acceptance criteria.

Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 282388 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 9251: The matrix spike duplicate (MSD) recovery for 282407 was outside control limits. Sample matrix interference and/or

Case Narrative

Client: ARCADIS U.S., Inc.
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TestAmerica Job ID: 660-68566-1

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Laboratory: TestAmerica Tampa (Continued)

non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

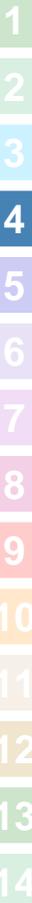
Method(s) SM 4500 SO4 E: The matrix spike / matrix spike duplicate (MS/MSD) precision for 282408 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) precision was within acceptance limits.

Method(s) 353.2: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 660-162652 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Lab Admin

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-68566-1	CZ 10 SW (08/12/2015)	Water	08/12/15 13:26	08/13/15 06:45
660-68566-2	CZ 10 PW (08/12/2015)	Water	08/12/15 15:00	08/13/15 06:45
660-68566-3	CZ 10 SED (08/12/2015)	Solid	08/12/15 16:00	08/13/15 06:45
660-68601-1	WW 10 SW (08/13/2015)	Water	08/13/15 11:30	08/14/15 06:18
660-68601-2	WW 10 PW (08/13/2015)	Water	08/13/15 11:00	08/14/15 06:18
660-68601-3	WW 10 SED (08/13/2015)	Solid	08/13/15 09:55	08/14/15 06:18
660-69823-1	CZ 0.5 SED (10/14/2015)	Solid	10/14/15 10:00	10/15/15 08:30
660-69823-2	CZ 0.5 SW (10/14/2015)	Water	10/14/15 10:15	10/15/15 08:30
660-69823-3	CZ 0.5 PW (10/14/2015)	Water	10/14/15 10:15	10/15/15 08:30
660-69823-4	CZ 1.0 SED (10/14/2015)	Solid	10/14/15 11:51	10/15/15 08:30
660-69823-5	CZ 1.5 SED (10/14/2015)	Solid	10/14/15 12:01	10/15/15 08:30
660-69823-6	CZ 1.5 SW (10/14/2015)	Water	10/14/15 12:48	10/15/15 08:30
660-69823-7	CZ 1.5 PW (10/14/2015)	Water	10/14/15 12:48	10/15/15 08:30
660-69823-8	CZ 2.0 SED (10/14/2015)	Solid	10/14/15 12:50	10/15/15 08:30
660-69823-9	CZ 2.5 SED (10/14/2015)	Solid	10/14/15 14:30	10/15/15 08:30
660-69823-10	CZ 2.5 SW (10/14/2015)	Water	10/14/15 14:45	10/15/15 08:30
660-69823-11	CZ 2.5 PW (10/14/2015)	Water	10/14/15 14:45	10/15/15 08:30
660-69852-1	CZ 3.5 SW (10/15/2015)	Water	10/15/15 10:15	10/16/15 06:10
660-69852-2	CZ 3.5 PW (10/15/2015)	Water	10/15/15 10:15	10/16/15 06:10
660-69852-3	CZ 4.5 SW (10/15/2015)	Water	10/15/15 12:05	10/16/15 06:10
660-69852-4	CZ 4.5 PW (10/15/2015)	Water	10/15/15 12:05	10/16/15 06:10
660-69852-5	CZ 5.5 SW (10/15/2015)	Water	10/15/15 15:20	10/16/15 06:10
660-69852-6	CZ 5.5 PW (10/15/2015)	Water	10/15/15 15:20	10/16/15 06:10
660-69852-7	CZ 3.0 SED (10/15/2015)	Solid	10/15/15 09:30	10/16/15 06:10
660-69852-8	CZ 3.5 SED (10/15/2015)	Solid	10/15/15 09:55	10/16/15 06:10
660-69852-9	CZ 4.0 SED (10/15/2015)	Solid	10/15/15 11:00	10/16/15 06:10
660-69852-10	CZ 4.5 SED (10/15/2015)	Solid	10/15/15 11:40	10/16/15 06:10
660-69852-11	CZ 5.0 SED (10/15/2015)	Solid	10/15/15 14:30	10/16/15 06:10
660-69852-12	CZ 5.5 SED (10/15/2015)	Solid	10/15/15 15:10	10/16/15 06:10
660-69852-13	CZ 6.0 SED (10/15/2015)	Solid	10/15/15 15:55	10/16/15 06:10
660-69879-1	CZ 6.5 SW (10/16/2015)	Water	10/16/15 09:25	10/17/15 06:35
660-69879-2	CZ 6.5 PW (10/16/2015)	Water	10/16/15 09:25	10/17/15 06:35
660-69879-3	CZ 7.5 SW (10/16/2015)	Water	10/16/15 11:20	10/17/15 06:35
660-69879-4	CZ 7.5 PW (10/16/2015)	Water	10/16/15 11:20	10/17/15 06:35
660-69879-5	CZ 8.5 SW (10/16/2015)	Water	10/16/15 14:05	10/17/15 06:35
660-69879-6	CZ 8.5 PW (10/16/2015)	Water	10/16/15 14:05	10/17/15 06:35
660-69879-7	CZ 6.5 SED (10/16/2015)	Solid	10/16/15 09:05	10/17/15 06:35
660-69879-8	CZ 7.0 SED (10/16/2015)	Solid	10/16/15 10:10	10/17/15 06:35
660-69879-9	CZ 7.5 SED (10/16/2015)	Solid	10/16/15 10:50	10/17/15 06:35
660-69879-10	CZ 8.0 SED (10/16/2015)	Solid	10/16/15 12:25	10/17/15 06:35
660-69879-11	CZ 8.5 SED (10/16/2015)	Solid	10/16/15 13:45	10/17/15 06:35
660-69879-12	CZ 9.0 SED (10/16/2015)	Solid	10/16/15 15:35	10/17/15 06:35
660-69879-13	CZ 9.5 SED (10/16/2015)	Solid	10/16/15 16:00	10/17/15 06:35
660-69893-1	HM 10.5 SW (10/19/2015)	Water	10/19/15 11:30	10/20/15 08:10
660-69893-2	HM 10.5 PW (10/19/2015)	Water	10/19/15 11:30	10/20/15 08:10
660-69893-3	HM 9.5 SW (10/19/2015)	Water	10/19/15 14:25	10/20/15 08:10
660-69893-4	HM 9.5 PW (10/19/2015)	Water	10/19/15 14:25	10/20/15 08:10
660-69893-5	HM 10.5 SED (10/19/2015)	Solid	10/19/15 10:55	10/20/15 08:10
660-69893-6	HM 10.0 SED (10/19/2015)	Solid	10/19/15 13:15	10/20/15 08:10
660-69893-7	HM 9.5 SED (10/19/2015)	Solid	10/19/15 14:00	10/20/15 08:10
660-69893-8	HM 9.0 SED (10/19/2015)	Solid	10/19/15 15:00	10/20/15 08:10
660-69919-1	HM8.5 SW (10/20/2015)	Water	10/20/15 09:40	10/21/15 06:05
660-69919-2	HM8.5 PW (10/20/2015)	Water	10/20/15 09:40	10/21/15 06:05

TestAmerica Tampa

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-69919-3	HM7.5 SW (10/20/2015)	Water	10/20/15 14:15	10/21/15 06:05
660-69919-4	HM7.5 PW (10/20/2015)	Water	10/20/15 14:15	10/21/15 06:05
660-69919-5	HM6.5 SW (10-20-2015)	Water	10/20/15 14:57	10/21/15 06:05
660-69919-6	HM6.5 PW (10-20-2015)	Water	10/20/15 14:57	10/21/15 06:05
660-69919-7	HM5.5 SW (10-20-2015)	Water	10/20/15 15:30	10/21/15 06:05
660-69919-8	HM5.5 PW (10-20-2015)	Water	10/20/15 15:30	10/21/15 06:05
660-69919-9	HM4.5 SW(10/20/2015)	Water	10/20/15 16:55	10/21/15 06:05
660-69919-10	HM4.5 PW (10-20-2015)	Water	10/20/15 16:55	10/21/15 06:05
660-69919-11	HM3.5 SW (10-20-2015)	Water	10/20/15 17:40	10/21/15 06:05
660-69919-12	HM3.5 PW (10/20/2015)	Water	10/20/15 17:40	10/21/15 06:05
660-69919-13	HM8.5 SED (10/20/2015)	Solid	10/20/15 09:10	10/21/15 06:05
660-69974-1	HM 8.0SED (10/21/2015)	Solid	10/21/15 09:35	10/22/15 06:05
660-69974-2	HM 7.5 SED (10/21/2015)	Solid	10/21/15 10:00	10/22/15 06:05
660-69974-3	HM 7.0 SED (10/21/2015)	Solid	10/21/15 10:30	10/22/15 06:05
660-69974-4	HM 6.5 SED (10/21/2015)	Solid	10/21/15 11:05	10/22/15 06:05
660-69974-5	HM 6.0 SED (10/21/2015)	Solid	10/21/15 12:00	10/22/15 06:05
660-69974-6	HM 5.5 SED (10/21/2015)	Solid	10/21/15 13:30	10/22/15 06:05
660-69974-7	HM 5.0 SED (10/21/2015)	Solid	10/21/15 14:00	10/22/15 06:05
660-69974-8	HM 4.5 SED (10/21/2015)	Solid	10/21/15 14:30	10/22/15 06:05
660-69974-9	HM 4.0 SED (10/21/2015)	Solid	10/21/15 14:55	10/22/15 06:05
660-69974-10	HM 3.5 SED (10/21/2015)	Solid	10/21/15 15:20	10/22/15 06:05
660-69974-11	HM 3.0 SED (10/21/2015)	Solid	10/21/15 15:45	10/22/15 06:05
660-69974-12	HM 2.5 SW (10/21/2015)	Water	10/21/15 16:30	10/22/15 06:05
660-69974-13	HM 2.5 PW (10/21/2015)	Water	10/21/15 16:30	10/22/15 06:05
660-69974-14	HM SED 2.5 (10/21/2015)	Solid	10/21/15 16:20	10/22/15 06:05
660-70002-1	HM1.5 SW(10/22/2015)	Water	10/22/15 10:10	10/23/15 08:00
660-70002-2	HM1.5 PW(10/22/2015)	Water	10/22/15 10:10	10/23/15 08:00
660-70002-3	WW8.5SW(10/22/2015)	Water	10/22/15 17:05	10/23/15 08:00
660-70002-4	WW8.5PW(10/22/2015)	Water	10/22/15 17:05	10/23/15 08:00
660-70002-5	HM2.0SED(10/22/2015)	Solid	10/22/15 09:50	10/23/15 08:00
660-70002-6	HM1.5SED(10/22/2015)	Solid	10/22/15 10:30	10/23/15 08:00
660-70002-7	HM1.0SED(10/22/2015)	Solid	10/22/15 12:30	10/23/15 08:00
660-70002-8	WW9.5SED(10/22/2015)	Solid	10/22/15 15:20	10/23/15 08:00
660-70002-9	WW9.0SED(10/22/2015)	Solid	10/22/15 15:50	10/23/15 08:00
660-70002-10	WW8.5SED(10/22/2015)	Solid	10/22/15 16:35	10/23/15 08:00
660-70026-1	WW7.5SW(10/23/2015)	Water	10/23/15 10:30	10/24/15 06:15
660-70026-2	WW7.5 PW(10/23/2015)	Water	10/23/15 10:30	10/24/15 06:15
660-70026-3	WW6.5SW(10/23/2015)	Water	10/23/15 12:25	10/24/15 06:15
660-70026-4	WW6.5PW(10/23/2015)	Water	10/23/15 12:25	10/24/15 06:15
660-70026-5	WW8.0SED(10/23/2015)	Solid	10/23/15 09:30	10/24/15 06:15
660-70026-6	WW7.5SED(10/23/2015)	Solid	10/23/15 10:05	10/24/15 06:15
660-70026-7	WW7.0SED(10/23/2015)	Solid	10/23/15 11:15	10/24/15 06:15
660-70026-8	WW6.5SED(10/23/2015)	Solid	10/23/15 11:40	10/24/15 06:15
660-70026-9	WW6.0SED(10/23/2015)	Solid	10/23/15 13:55	10/24/15 06:15
660-70053-1	WW5.5 SED (10/26/2015)	Solid	10/26/15 10:15	10/27/15 06:05
660-70053-2	WW5.25 SED (10/26/2015)	Solid	10/26/15 11:40	10/27/15 06:05
660-70053-3	WW5.0 SED (10/26/2015)	Solid	10/26/15 13:40	10/27/15 06:05
660-70053-4	WW 4.5 SED (10/26/2015)	Solid	10/26/15 14:10	10/27/15 06:05
660-70053-5	WW4.0 SED (10/26/2015)	Solid	10/26/15 15:00	10/27/15 06:05
660-70053-6	WW3.5 SED (10/26/2015)	Solid	10/26/15 15:45	10/27/15 06:05
660-70053-7	WW5.5 SW (10/26/2015)	Water	10/26/15 10:40	10/27/15 06:05
660-70053-8	WW5.5 PW (10/26/2015)	Water	10/26/15 10:40	10/27/15 06:05
660-70053-9	WW5.25 SW (10/26/2015)	Water	10/26/15 11:50	10/27/15 06:05

TestAmerica Tampa

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
660-70053-10	WW5.25 PW (10/26/2015)	Water	10/26/15 11:50	10/27/15 06:05
660-70053-11	WW4.5 SW (10/26/2015)	Water	10/26/15 14:25	10/27/15 06:05
660-70053-12	WW4.5 PW (10/26/2015)	Water	10/26/15 14:25	10/27/15 06:05
660-70053-13	WW3.5 SW (10/26/2015)	Water	10/26/15 16:10	10/27/15 06:05
660-70053-14	WW3.5 PW (10/26/2015)	Water	10/26/15 16:10	10/27/15 06:05
660-70082-1	WW2.5 SW (10/27/2015)	Water	10/27/15 10:35	10/28/15 06:05
660-70082-2	WW2.5 PW (10/27/2015)	Water	10/27/15 10:35	10/28/15 06:05
660-70082-3	WW1.5 SW (10/27/2015)	Water	10/27/15 12:10	10/28/15 06:05
660-70082-4	WW1.5 PW (10/27/2015)	Water	10/27/15 12:10	10/28/15 06:05
660-70082-5	WW3.0 SED (10/27/2015)	Solid	10/27/15 09:45	10/28/15 06:05
660-70082-6	WW2.5 SED (10/27/2015)	Solid	10/27/15 10:15	10/28/15 06:05
660-70082-7	WW2.0 SED (10/27/2015)	Solid	10/27/15 11:15	10/28/15 06:05
660-70082-8	WW1.5 SED (10/27/2015)	Solid	10/27/15 11:40	10/28/15 06:05
660-70082-9	WW1.0 SED (10/27/2015)	Solid	10/27/15 12:50	10/28/15 06:05

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 10 SW (08/12/2015)

Lab Sample ID: 660-68566-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.4	I	10	2.5	ug/L	1		6010B	Total
Iron	340		200	50	ug/L	1		6010B	Total
Magnesium	96000		80	20	ug/L	1		6010B	Total
Manganese	7.0		4.0	1.0	ug/L	1		6010B	Total
Potassium	37000		1000	190	ug/L	1		6010B	Total
Copper	3.3	I	10	2.5	ug/L	1		6010B	Dissolved
Iron	61	I	200	50	ug/L	1		6010B	Dissolved
Magnesium	96000		80	20	ug/L	1		6010B	Dissolved
Potassium	37000		1000	190	ug/L	1		6010B	Dissolved
Ammonia (as N)	0.26		0.050	0.020	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.83		0.50	0.26	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.17		0.050	0.018	mg/L	1		353.2	Total/NA
Nitrite as N	0.0053	I	0.010	0.0050	mg/L	1		353.2	Total/NA
Phosphorus	0.036		0.010	0.0030	mg/L	1		365.1	Total/NA
Nitrate as N	0.16		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.17		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	1700		240	72	mg/L		120	SM 4500 Cl- E	Total/NA
Sulfate	230		50	14	mg/L		10	SM 4500 SO4 E	Total/NA
Ferrous Iron	260	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	1.0		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.019		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: CZ 10 PW (08/12/2015)

Lab Sample ID: 660-68566-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.6	I	10	2.5	ug/L	1		6010B	Total
Iron	87	I	200	50	ug/L	1		6010B	Total
Magnesium	150000		80	20	ug/L	1		6010B	Total
Manganese	5.2		4.0	1.0	ug/L	1		6010B	Total
Potassium	69000		1000	190	ug/L	1		6010B	Total
Copper	3.4	I	10	2.5	ug/L	1		6010B	Dissolved
Magnesium	160000		80	20	ug/L	1		6010B	Dissolved
Potassium	71000		1000	190	ug/L	1		6010B	Dissolved
Ammonia (as N)	0.95		0.050	0.020	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	1.6		0.50	0.26	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.025	I	0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus	0.091		0.010	0.0030	mg/L	1		365.1	Total/NA
Nitrate as N	0.025		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.025		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	3200		240	72	mg/L		120	SM 4500 Cl- E	Total/NA
Sulfate	340		50	14	mg/L		10	SM 4500 SO4 E	Total/NA
Ferrous Iron	150	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	1.6		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 10 PW (08/12/2015) (Continued)

Lab Sample ID: 660-68566-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Orthophosphate	0.070		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: CZ 10 SED (08/12/2015)

Lab Sample ID: 660-68566-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.81	I	0.97	0.19	mg/Kg	1		6010B	Total/NA
Iron	3600	J3	9.7	4.8	mg/Kg	1		6010B	Total/NA
Magnesium	890		48	2.9	mg/Kg	1		6010B	Total/NA
Manganese	16		0.97	0.097	mg/Kg	1		6010B	Total/NA
Potassium	160		97	9.7	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	230	J3	13	6.5	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	110	J3	2.5	0.75	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.023		0.00025	0.00013	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	0.93	I J3	0.99	0.32	mg/Kg	1		350.1	Soluble
Orthophosphate	2.6		1.0	0.30	mg/Kg	1		365.1	Soluble
Sulfate	200		99	28	mg/Kg	1		9038	Soluble
Chloride	1100		79	24	mg/Kg	2		9251	Soluble

Client Sample ID: WW 10 SW (08/13/2015)

Lab Sample ID: 660-68601-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	170	I	200	50	ug/L	1		6010B	Total Recoverable
Magnesium	6700		80	20	ug/L	1		6010B	Total Recoverable
Manganese	1.6	I	4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	1100		1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	14000		160	40	ug/L	2		6010B	Dissolved
Potassium	1800	I	2000	380	ug/L	2		6010B	Dissolved
Ammonia (as N)	0.12		0.050	0.020	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.44	I	0.50	0.26	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.72		0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus	0.010		0.010	0.0030	mg/L	1		365.1	Total/NA
Nitrate as N	0.72		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.72		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	20		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	13		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Ferrous Iron	180	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	1.2		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: WW 10 PW (08/13/2015)

Lab Sample ID: 660-68601-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.4	I	10	2.5	ug/L	1		6010B	Total Recoverable
Magnesium	150000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	40		4.0	1.0	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW 10 PW (08/13/2015) (Continued)

Lab Sample ID: 660-68601-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	59000		1000	190	ug/L	1		6010B	Total Recoverable
Copper	3.4	I	10	2.5	ug/L	1		6010B	Dissolved
Magnesium	150000		80	20	ug/L	1		6010B	Dissolved
Manganese	41		4.0	1.0	ug/L	1		6010B	Dissolved
Potassium	59000		1000	190	ug/L	1		6010B	Dissolved
Ammonia (as N)	0.78		0.050	0.020	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	1.1		0.50	0.26	mg/L	1		351.2	Total/NA
Phosphorus	0.081		0.010	0.0030	mg/L	1		365.1	Total/NA
Chloride	3300		200	60	mg/L		100	SM 4500 Cl- E	Total/NA
Sulfate	380		100	28	mg/L		20	SM 4500 SO4 E	Total/NA
Ferrous Iron	130	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	1.1		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.082		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: WW 10 SED (08/13/2015)

Lab Sample ID: 660-68601-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.25	I	0.95	0.19	mg/Kg	1		6010B	Total/NA
Iron	190		9.5	4.8	mg/Kg	1		6010B	Total/NA
Magnesium	82		48	2.9	mg/Kg	1		6010B	Total/NA
Manganese	1.2		0.95	0.095	mg/Kg	1		6010B	Total/NA
Potassium	13	I	95	9.5	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	100		11	5.6	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	19		2.1	0.64	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.010		0.00025	0.00013	Percent	1		Total Nitrogen	Total/NA
Sulfate	51	I	99	28	mg/Kg	1		9038	Soluble
Chloride	310		40	12	mg/Kg	1		9251	Soluble

Client Sample ID: CZ 0.5 SED (10/14/2015)

Lab Sample ID: 660-69823-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.4		0.96	0.19	mg/Kg	1		6010B	Total/NA
Iron	1400		9.6	4.8	mg/Kg	1		6010B	Total/NA
Magnesium	190		48	2.9	mg/Kg	1		6010B	Total/NA
Manganese	1.6	V	0.96	0.096	mg/Kg	1		6010B	Total/NA
Potassium	24	I	96	9.6	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	330		12	6.4	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	78		2.5	0.74	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.033		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	1.0		0.98	0.31	mg/Kg	1		350.1	Soluble
Orthophosphate	0.62	I	1.0	0.30	mg/Kg	1		365.1	Soluble
Sulfate	370	J3	94	26	mg/Kg	1		9038	Soluble
Chloride	440		38	11	mg/Kg	1		9251	Soluble

Client Sample ID: CZ 0.5 SW (10/14/2015)

Lab Sample ID: 660-69823-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	22000	J3	80	20	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 0.5 SW (10/14/2015) (Continued)

Lab Sample ID: 660-69823-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	4700		1000	190	ug/L	1		6010B	Total
Magnesium	24000		80	20	ug/L	1		6010B	Recoverable Dissolved
Potassium	5100		1000	190	ug/L	1		6010B	Dissolved
Nitrate Nitrite as N	0.44		0.050	0.018	mg/L	1		353.2	Total/NA
Nitrate as N	0.44		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.44		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	71		20	6.0	mg/L	10		SM 4500 Cl- E	Total/NA
Sulfate	22		10	2.8	mg/L	2		SM 4500 SO4 E	Total/NA
Nitrogen, Total	0.44	I	0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.014		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: CZ 0.5 PW (10/14/2015)

Lab Sample ID: 660-69823-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	75000		80	20	ug/L	1		6010B	Total
Potassium	28000		1000	190	ug/L	1		6010B	Recoverable Total
Magnesium	74000		80	20	ug/L	1		6010B	Recoverable Dissolved
Potassium	27000		1000	190	ug/L	1		6010B	Dissolved
Ammonia (as N)	0.052		0.050	0.020	mg/L	1		350.1	Total/NA
Nitrate Nitrite as N	0.20		0.050	0.018	mg/L	1		353.2	Total/NA
Nitrate as N	0.20		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.20		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	1300	J3	100	30	mg/L	50		SM 4500 Cl- E	Total/NA
Sulfate	160		75	21	mg/L	15		SM 4500 SO4 E	Total/NA
Orthophosphate	0.038		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: CZ 1.0 SED (10/14/2015)

Lab Sample ID: 660-69823-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.8		0.95	0.19	mg/Kg	1		6010B	Total/NA
Iron	1600		9.5	4.8	mg/Kg	1		6010B	Total/NA
Magnesium	200		48	2.9	mg/Kg	1		6010B	Total/NA
Manganese	2.3	V	0.95	0.095	mg/Kg	1		6010B	Total/NA
Potassium	29	I	95	9.5	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	330		23	12	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	64		4.5	1.4	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.033		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	2.1		0.98	0.31	mg/Kg	1		350.1	Soluble
Orthophosphate	2.0		1.0	0.30	mg/Kg	1		365.1	Soluble
Sulfate	110		99	28	mg/Kg	1		9038	Soluble
Chloride	400		40	12	mg/Kg	1		9251	Soluble

Client Sample ID: CZ 1.5 SED (10/14/2015)

Lab Sample ID: 660-69823-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.75	I	0.95	0.19	mg/Kg	1		6010B	Total/NA
Iron	860		9.5	4.8	mg/Kg	1		6010B	Total/NA
Magnesium	95		48	2.9	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 1.5 SED (10/14/2015) (Continued)

Lab Sample ID: 660-69823-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1.4	V	0.95	0.095	mg/Kg	1		6010B	Total/NA
Potassium	21	I	95	9.5	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	100		21	11	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	30		4.2	1.3	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.010		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	2.9		0.99	0.32	mg/Kg	1		350.1	Soluble
Orthophosphate	0.55	I	1.0	0.30	mg/Kg	1		365.1	Soluble
Sulfate	250		89	25	mg/Kg	1		9038	Soluble
Chloride	260		36	11	mg/Kg	1		9251	Soluble

Client Sample ID: CZ 1.5 SW (10/14/2015)

Lab Sample ID: 660-69823-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	100	I	200	50	ug/L	1		6010B	Total Recoverable
Magnesium	47000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	1.8	I	4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	15000		1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	48000		80	20	ug/L	1		6010B	Dissolved
Potassium	15000		1000	190	ug/L	1		6010B	Dissolved
Nitrate Nitrite as N	0.48		0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.077	I V	0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.48		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.48		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	670		100	30	mg/L		50	SM 4500 Cl- E	Total/NA
Sulfate	77		25	7.0	mg/L		5	SM 4500 SO4 E	Total/NA
Nitrogen, Total	0.48	I	0.50	0.26	mg/L		1	Total Nitrogen	Total/NA
Orthophosphate	0.014		0.010	0.0050	mg/L		1	365.2	Dissolved

Client Sample ID: CZ 1.5 PW (10/14/2015)

Lab Sample ID: 660-69823-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	110	I	200	50	ug/L	1		6010B	Total Recoverable
Magnesium	43000		80	20	ug/L	1		6010B	Total Recoverable
Potassium	13000		1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	44000		80	20	ug/L	1		6010B	Dissolved
Potassium	13000		1000	190	ug/L	1		6010B	Dissolved
Nitrate Nitrite as N	0.71		0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.12	V	0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.71		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.71		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	350		100	30	mg/L		50	SM 4500 Cl- E	Total/NA
Sulfate	68		50	14	mg/L		10	SM 4500 SO4 E	Total/NA
Nitrogen, Total	0.71		0.50	0.26	mg/L		1	Total Nitrogen	Total/NA
Orthophosphate	0.019		0.010	0.0050	mg/L		1	365.2	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 2.0 SED (10/14/2015)

Lab Sample ID: 660-69823-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.89	I	0.95	0.19	mg/Kg	1		6010B	Total/NA
Iron	1000		9.5	4.8	mg/Kg	1		6010B	Total/NA
Magnesium	130		48	2.9	mg/Kg	1		6010B	Total/NA
Manganese	1.9	V	0.95	0.095	mg/Kg	1		6010B	Total/NA
Potassium	32	I	95	9.5	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	280		18	9.3	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	52		3.6	1.1	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.028		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	0.91	I	0.98	0.32	mg/Kg	1		350.1	Soluble
Sulfate	280		97	27	mg/Kg	1		9038	Soluble
Chloride	350		39	12	mg/Kg	1		9251	Soluble

Client Sample ID: CZ 2.5 SED (10/14/2015)

Lab Sample ID: 660-69823-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.80	I	0.97	0.19	mg/Kg	1		6010B	Total/NA
Iron	980		9.7	4.8	mg/Kg	1		6010B	Total/NA
Magnesium	200		48	2.9	mg/Kg	1		6010B	Total/NA
Manganese	0.76	I V	0.97	0.097	mg/Kg	1		6010B	Total/NA
Potassium	30	I	97	9.7	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	310		24	12	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	300		4.7	1.4	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.031		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Sulfate	410		95	27	mg/Kg	1		9038	Soluble
Chloride	860		38	11	mg/Kg	1		9251	Soluble

Client Sample ID: CZ 2.5 SW (10/14/2015)

Lab Sample ID: 660-69823-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	82	I	200	50	ug/L	1		6010B	Total Recoverable
Magnesium	46000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	1.3	I	4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	14000		1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	45000		80	20	ug/L	1		6010B	Dissolved
Potassium	14000		1000	190	ug/L	1		6010B	Dissolved
Nitrate Nitrite as N	0.43		0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.035	I V	0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.43		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.43		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	370		100	30	mg/L		50	SM 4500 Cl- E	Total/NA
Sulfate	88		50	14	mg/L		10	SM 4500 SO4 E	Total/NA
Nitrogen, Total	0.43	I	0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.011		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: CZ 2.5 PW (10/14/2015)

Lab Sample ID: 660-69823-11

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 2.5 PW (10/14/2015) (Continued)

Lab Sample ID: 660-69823-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.8	I	10	2.5	ug/L	1		6010B	Total
									Recoverable
Magnesium	130000		80	20	ug/L	1		6010B	Total
									Recoverable
Potassium	56000		1000	190	ug/L	1		6010B	Total
									Recoverable
Copper	2.7	I	10	2.5	ug/L	1		6010B	Dissolved
Magnesium	130000		80	20	ug/L	1		6010B	Dissolved
Potassium	56000		1000	190	ug/L	1		6010B	Dissolved
Nitrate Nitrite as N	0.032	I	0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.048	I V	0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.032		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.032		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	2500		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	310		130	35	mg/L	25		SM 4500 SO4 E	Total/NA
Orthophosphate	0.016		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: CZ 3.5 SW (10/15/2015)

Lab Sample ID: 660-69852-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	85	I	200	50	ug/L	1		6010B	Total
									Recoverable
Magnesium	48000		80	20	ug/L	1		6010B	Total
									Recoverable
Manganese	1.8	I	4.0	1.0	ug/L	1		6010B	Total
									Recoverable
Potassium	15000		1000	190	ug/L	1		6010B	Total
									Recoverable
Magnesium	52000		80	20	ug/L	1		6010B	Dissolved
Potassium	16000		1000	190	ug/L	1		6010B	Dissolved
Nitrate Nitrite as N	0.49		0.050	0.018	mg/L	1		353.2	Total/NA
Nitrate as N	0.49		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.49		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	390		100	30	mg/L	50		SM 4500 Cl- E	Total/NA
Sulfate	94		50	14	mg/L	10		SM 4500 SO4 E	Total/NA
Ferrous Iron	82	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.49	I	0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.0090	I	0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: CZ 3.5 PW (10/15/2015)

Lab Sample ID: 660-69852-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.3	I	10	2.5	ug/L	1		6010B	Total
									Recoverable
Magnesium	150000		80	20	ug/L	1		6010B	Total
									Recoverable
Manganese	1.7	I	4.0	1.0	ug/L	1		6010B	Total
									Recoverable
Potassium	59000		1000	190	ug/L	1		6010B	Total
									Recoverable
Copper	2.9	I	10	2.5	ug/L	1		6010B	Dissolved
Magnesium	150000		80	20	ug/L	1		6010B	Dissolved
Potassium	61000		1000	190	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 3.5 PW (10/15/2015) (Continued)

Lab Sample ID: 660-69852-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia (as N)	0.87		0.050	0.020	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.91		0.50	0.26	mg/L	1		351.2	Total/NA
Phosphorus, Total	0.18	V	0.10	0.032	mg/L	1		365.4	Total/NA
Chloride	2900		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	240		130	35	mg/L	25		SM 4500 SO4 E	Total/NA
Ferrous Iron	71	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.91		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.15		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: CZ 4.5 SW (10/15/2015)

Lab Sample ID: 660-69852-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.6	I	10	2.5	ug/L	1		6010B	Total Recoverable
Iron	150	I	200	50	ug/L	1		6010B	Total Recoverable
Magnesium	66000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	1.5	I	4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	22000		1000	190	ug/L	1		6010B	Total Recoverable
Copper	2.6	I	10	2.5	ug/L	1		6010B	Dissolved
Magnesium	67000		80	20	ug/L	1		6010B	Dissolved
Potassium	23000		1000	190	ug/L	1		6010B	Dissolved
Nitrate Nitrite as N	0.40		0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.049	I V	0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.40		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.40		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	380		100	30	mg/L	50		SM 4500 Cl- E	Total/NA
Sulfate	110		50	14	mg/L	10		SM 4500 SO4 E	Total/NA
Ferrous Iron	120	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.40	I	0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.0080	I	0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: CZ 4.5 PW (10/15/2015)

Lab Sample ID: 660-69852-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	4.0	I	10	2.5	ug/L	1		6010B	Total Recoverable
Iron	57	I	200	50	ug/L	1		6010B	Total Recoverable
Magnesium	110000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	2.6	I	4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	41000		1000	190	ug/L	1		6010B	Total Recoverable
Copper	3.1	I	10	2.5	ug/L	1		6010B	Dissolved
Magnesium	110000		80	20	ug/L	1		6010B	Dissolved
Potassium	40000		1000	190	ug/L	1		6010B	Dissolved
Ammonia (as N)	0.22		0.050	0.020	mg/L	1		350.1	Total/NA
Phosphorus, Total	0.085	I V	0.10	0.032	mg/L	1		365.4	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 4.5 PW (10/15/2015) (Continued)

Lab Sample ID: 660-69852-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	2200		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	200		100	28	mg/L	20		SM 4500 SO4 E	Total/NA
Ferrous Iron	99	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Orthophosphate	0.056		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: CZ 5.5 SW (10/15/2015)

Lab Sample ID: 660-69852-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.1	I	10	2.5	ug/L	1		6010B	Total Recoverable
Iron	170	I	200	50	ug/L	1		6010B	Total Recoverable
Magnesium	62000	J3	80	20	ug/L	1		6010B	Total Recoverable
Manganese	1.6	I	4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	20000		1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	65000		80	20	ug/L	1		6010B	Dissolved
Potassium	21000		1000	190	ug/L	1		6010B	Dissolved
Nitrate Nitrite as N	0.37		0.050	0.018	mg/L	1		353.2	Total/NA
Nitrate as N	0.37		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.37		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	880		100	30	mg/L	50		SM 4500 Cl- E	Total/NA
Sulfate	120		50	14	mg/L	10		SM 4500 SO4 E	Total/NA
Ferrous Iron	110	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.37	I	0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.0070	I	0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: CZ 5.5 PW (10/15/2015)

Lab Sample ID: 660-69852-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.0	I	10	2.5	ug/L	1		6010B	Total Recoverable
Iron	360		200	50	ug/L	1		6010B	Total Recoverable
Magnesium	67000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	9.3		4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	23000		1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	69000		80	20	ug/L	1		6010B	Dissolved
Manganese	5.0		4.0	1.0	ug/L	1		6010B	Dissolved
Potassium	23000		1000	190	ug/L	1		6010B	Dissolved
Ammonia (as N)	0.19		0.050	0.020	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.31	I	0.50	0.26	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.034	I	0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.10		0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.034		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.034		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	1200	J3	100	30	mg/L	50		SM 4500 Cl- E	Total/NA
Sulfate	150		75	21	mg/L	15		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 5.5 PW (10/15/2015) (Continued)

Lab Sample ID: 660-69852-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ferrous Iron	380	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.34	I	0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.057		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: CZ 3.0 SED (10/15/2015)

Lab Sample ID: 660-69852-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.75	I	0.94	0.19	mg/Kg	1		6010B	Total/NA
Iron	860		9.4	4.7	mg/Kg	1		6010B	Total/NA
Magnesium	190		47	2.8	mg/Kg	1		6010B	Total/NA
Manganese	0.98	V	0.94	0.094	mg/Kg	1		6010B	Total/NA
Potassium	34	I	94	9.4	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	270		24	12	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	37		4.7	1.4	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.027		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	0.56	I	0.99	0.32	mg/Kg	1		350.1	Soluble
Sulfate	280		92	26	mg/Kg	1		9038	Soluble
Chloride	460		37	11	mg/Kg	1		9251	Soluble

Client Sample ID: CZ 3.5 SED (10/15/2015)

Lab Sample ID: 660-69852-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.4		0.91	0.18	mg/Kg	1		6010B	Total/NA
Iron	1000		9.1	4.6	mg/Kg	1		6010B	Total/NA
Magnesium	320		46	2.7	mg/Kg	1		6010B	Total/NA
Manganese	1.4	V	0.91	0.091	mg/Kg	1		6010B	Total/NA
Potassium	54	I	91	9.1	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	600		14	7.1	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	69		2.7	0.82	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.060		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	2.9		0.98	0.31	mg/Kg	1		350.1	Soluble
Sulfate	570		91	25	mg/Kg	1		9038	Soluble
Chloride	1500		73	22	mg/Kg	2		9251	Soluble

Client Sample ID: CZ 4.0 SED (10/15/2015)

Lab Sample ID: 660-69852-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.3		0.92	0.18	mg/Kg	1		6010B	Total/NA
Iron	1200		9.2	4.6	mg/Kg	1		6010B	Total/NA
Magnesium	320		46	2.8	mg/Kg	1		6010B	Total/NA
Manganese	2.2	V	0.92	0.092	mg/Kg	1		6010B	Total/NA
Potassium	55	I	92	9.2	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	800		16	8.6	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	86		3.3	0.99	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.080		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	1.3		0.99	0.32	mg/Kg	1		350.1	Soluble
Sulfate	490		89	25	mg/Kg	1		9038	Soluble
Chloride	1300		72	21	mg/Kg	2		9251	Soluble

Client Sample ID: CZ 4.5 SED (10/15/2015)

Lab Sample ID: 660-69852-10

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 4.5 SED (10/15/2015) (Continued)

Lab Sample ID: 660-69852-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.72	I	0.96	0.19	mg/Kg	1		6010B	Total/NA
Iron	510		9.6	4.8	mg/Kg	1		6010B	Total/NA
Magnesium	140		48	2.9	mg/Kg	1		6010B	Total/NA
Manganese	1.2		0.96	0.096	mg/Kg	1		6010B	Total/NA
Potassium	25	I	96	9.6	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	410		13	6.6	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	71		2.6	0.77	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.041		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	2.5		0.99	0.32	mg/Kg	1		350.1	Soluble
Orthophosphate	0.34	I	1.0	0.30	mg/Kg	1		365.1	Soluble
Sulfate	200		93	26	mg/Kg	1		9038	Soluble
Chloride	420		37	11	mg/Kg	1		9251	Soluble

Client Sample ID: CZ 5.0 SED (10/15/2015)

Lab Sample ID: 660-69852-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.2		0.93	0.19	mg/Kg	1		6010B	Total/NA
Iron	750		9.3	4.6	mg/Kg	1		6010B	Total/NA
Magnesium	170		46	2.8	mg/Kg	1		6010B	Total/NA
Manganese	2.0		0.93	0.093	mg/Kg	1		6010B	Total/NA
Potassium	24	I	93	9.3	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	690		18	9.6	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	69		3.7	1.1	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.069		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	1.5		0.99	0.32	mg/Kg	1		350.1	Soluble
Sulfate	360		100	28	mg/Kg	1		9038	Soluble
Chloride	410		40	12	mg/Kg	1		9251	Soluble

Client Sample ID: CZ 5.5 SED (10/15/2015)

Lab Sample ID: 660-69852-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.57	I	1.1	0.21	mg/Kg	1		6010B	Total/NA
Iron	360		11	5.3	mg/Kg	1		6010B	Total/NA
Magnesium	95		53	3.2	mg/Kg	1		6010B	Total/NA
Manganese	1.3		1.1	0.11	mg/Kg	1		6010B	Total/NA
Potassium	21	I	110	11	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	230		22	11	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	36		4.4	1.3	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.023		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	1.8		0.98	0.31	mg/Kg	1		350.1	Soluble
Chloride	320		37	11	mg/Kg	1		9251	Soluble

Client Sample ID: CZ 6.0 SED (10/15/2015)

Lab Sample ID: 660-69852-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.37	I	0.96	0.19	mg/Kg	1		6010B	Total/NA
Iron	430		9.6	4.8	mg/Kg	1		6010B	Total/NA
Magnesium	120		48	2.9	mg/Kg	1		6010B	Total/NA
Manganese	2.0		0.96	0.096	mg/Kg	1		6010B	Total/NA
Potassium	32	I	96	9.6	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 6.0 SED (10/15/2015) (Continued)

Lab Sample ID: 660-69852-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Kjeldahl Nitrogen	210		16	8.1	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	32		3.1	0.94	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.021		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	3.4		0.98	0.31	mg/Kg	1		350.1	Soluble
Nitrate Nitrite as N	0.37	I	0.98	0.35	mg/Kg	1		353.2	Soluble
Orthophosphate	1.2		1.0	0.30	mg/Kg	1		365.1	Soluble
Chloride	280		37	11	mg/Kg	1		9251	Soluble
Nitrate as N	0.37	I	1.0	0.36	mg/Kg	1		Nitrate by calc	Soluble

Client Sample ID: CZ 6.5 SW (10/16/2015)

Lab Sample ID: 660-69879-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.9	I	10	2.5	ug/L	1		6010B	Total Recoverable
Iron	73	I	200	50	ug/L	1		6010B	Total Recoverable
Magnesium	67000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	1.5	I	4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	22000		1000	190	ug/L	1		6010B	Total Recoverable
Copper	2.5	I	10	2.5	ug/L	1		6010B	Dissolved
Magnesium	67000		80	20	ug/L	1		6010B	Dissolved
Potassium	22000		1000	190	ug/L	1		6010B	Dissolved
Nitrate Nitrite as N	0.35		0.050	0.018	mg/L	1		353.2	Total/NA
Nitrate as N	0.35		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.35		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	590		100	30	mg/L	50		SM 4500 Cl- E	Total/NA
Sulfate	78	I	100	28	mg/L	20		SM 4500 SO4 E	Total/NA
Ferrous Iron	69	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.35	I	0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.0070	I	0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: CZ 6.5 PW (10/16/2015)

Lab Sample ID: 660-69879-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.1	I	10	2.5	ug/L	1		6010B	Total Recoverable
Iron	280		200	50	ug/L	1		6010B	Total Recoverable
Magnesium	83000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	5.0		4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	27000		1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	84000		80	20	ug/L	1		6010B	Dissolved
Manganese	4.6		4.0	1.0	ug/L	1		6010B	Dissolved
Potassium	27000		1000	190	ug/L	1		6010B	Dissolved
Ammonia (as N)	0.19		0.050	0.020	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.43	I	0.50	0.26	mg/L	1		351.2	Total/NA
Phosphorus, Total	0.047	I	0.10	0.032	mg/L	1		365.4	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 6.5 PW (10/16/2015) (Continued)

Lab Sample ID: 660-69879-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	1500		100	30	mg/L	50		SM 4500 Cl- E	Total/NA
Sulfate	130		100	28	mg/L	20		SM 4500 SO4 E	Total/NA
Ferrous Iron	390	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.43	I	0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.060		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: CZ 7.5 SW (10/16/2015)

Lab Sample ID: 660-69879-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.7	I	10	2.5	ug/L	1		6010B	Total Recoverable
Iron	200		200	50	ug/L	1		6010B	Total Recoverable
Magnesium	76000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	2.7	I	4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	26000		1000	190	ug/L	1		6010B	Total Recoverable
Copper	2.5	I	10	2.5	ug/L	1		6010B	Dissolved
Magnesium	76000		80	20	ug/L	1		6010B	Dissolved
Potassium	25000		1000	190	ug/L	1		6010B	Dissolved
Nitrate Nitrite as N	0.38		0.050	0.018	mg/L	1		353.2	Total/NA
Nitrate as N	0.38		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.38		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	1400		100	30	mg/L	50		SM 4500 Cl- E	Total/NA
Sulfate	140		50	14	mg/L	10		SM 4500 SO4 E	Total/NA
Ferrous Iron	99	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.38	I	0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.12		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: CZ 7.5 PW (10/16/2015)

Lab Sample ID: 660-69879-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.7	I	10	2.5	ug/L	1		6010B	Total Recoverable
Magnesium	98000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	4.7		4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	36000		1000	190	ug/L	1		6010B	Total Recoverable
Copper	2.6	I	10	2.5	ug/L	1		6010B	Dissolved
Magnesium	99000		80	20	ug/L	1		6010B	Dissolved
Manganese	3.8	I	4.0	1.0	ug/L	1		6010B	Dissolved
Potassium	36000		1000	190	ug/L	1		6010B	Dissolved
Ammonia (as N)	1.0		0.050	0.020	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	1.4		0.50	0.26	mg/L	1		351.2	Total/NA
Phosphorus, Total	0.17		0.10	0.032	mg/L	1		365.4	Total/NA
Chloride	1900		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	200		75	21	mg/L	15		SM 4500 SO4 E	Total/NA
Ferrous Iron	56	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	1.4		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 7.5 PW (10/16/2015) (Continued)

Lab Sample ID: 660-69879-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Orthophosphate	0.16		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: CZ 8.5 SW (10/16/2015)

Lab Sample ID: 660-69879-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.7	I	10	2.5	ug/L	1		6010B	Total Recoverable
Iron	220		200	50	ug/L	1		6010B	Total Recoverable
Magnesium	81000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	3.3	I	4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	27000		1000	190	ug/L	1		6010B	Total Recoverable
Copper	2.5	I	10	2.5	ug/L	1		6010B	Dissolved
Magnesium	85000		80	20	ug/L	1		6010B	Dissolved
Potassium	28000		1000	190	ug/L	1		6010B	Dissolved
Total Kjeldahl Nitrogen	0.43	I	0.50	0.26	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.30	J3	0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.20		0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.30		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.30		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	1500		100	30	mg/L	50		SM 4500 Cl- E	Total/NA
Sulfate	160		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA
Ferrous Iron	120	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.73		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.018		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: CZ 8.5 PW (10/16/2015)

Lab Sample ID: 660-69879-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.7	I	10	2.5	ug/L	1		6010B	Total Recoverable
Magnesium	96000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	8.2		4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	35000		1000	190	ug/L	1		6010B	Total Recoverable
Copper	3.1	I	10	2.5	ug/L	1		6010B	Dissolved
Iron	61	I	200	50	ug/L	1		6010B	Dissolved
Magnesium	100000		80	20	ug/L	1		6010B	Dissolved
Manganese	4.4		4.0	1.0	ug/L	1		6010B	Dissolved
Potassium	36000		1000	190	ug/L	1		6010B	Dissolved
Ammonia (as N)	1.7		0.050	0.020	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	2.2		0.50	0.26	mg/L	1		351.2	Total/NA
Phosphorus, Total	0.34		0.10	0.032	mg/L	1		365.4	Total/NA
Chloride	1900		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	170		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA
Ferrous Iron	97	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	2.2		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.27		0.010	0.0050	mg/L	1		365.2	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 6.5 SED (10/16/2015)

Lab Sample ID: 660-69879-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.36	I	1.0	0.21	mg/Kg	1		6010B	Total/NA
Iron	610		10	5.2	mg/Kg	1		6010B	Total/NA
Magnesium	120		52	3.1	mg/Kg	1		6010B	Total/NA
Manganese	1.9		1.0	0.10	mg/Kg	1		6010B	Total/NA
Potassium	35	I	100	10	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	200	J3	18	9.3	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	36	J3	3.6	1.1	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.020		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	2.4		0.99	0.32	mg/Kg	1		350.1	Soluble
Orthophosphate	0.94	I	1.0	0.30	mg/Kg	1		365.1	Soluble
Chloride	360		37	11	mg/Kg	1		9251	Soluble

Client Sample ID: CZ 7.0 SED (10/16/2015)

Lab Sample ID: 660-69879-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.47	I	1.0	0.21	mg/Kg	1		6010B	Total/NA
Iron	790		10	5.2	mg/Kg	1		6010B	Total/NA
Magnesium	170		52	3.1	mg/Kg	1		6010B	Total/NA
Manganese	1.5		1.0	0.10	mg/Kg	1		6010B	Total/NA
Potassium	47	I	100	10	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	320		11	5.7	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	72		2.2	0.65	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.032		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	1.4		0.98	0.31	mg/Kg	1		350.1	Soluble
Chloride	370		38	11	mg/Kg	1		9251	Soluble

Client Sample ID: CZ 7.5 SED (10/16/2015)

Lab Sample ID: 660-69879-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.45	I	0.96	0.19	mg/Kg	1		6010B	Total/NA
Iron	1100		9.6	4.8	mg/Kg	1		6010B	Total/NA
Magnesium	240		48	2.9	mg/Kg	1		6010B	Total/NA
Manganese	2.4		0.96	0.096	mg/Kg	1		6010B	Total/NA
Potassium	42	I	96	9.6	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	410		12	6.3	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	59		2.4	0.73	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.041		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	0.63	I	0.98	0.32	mg/Kg	1		350.1	Soluble
Sulfate	41	I	92	26	mg/Kg	1		9038	Soluble
Chloride	440		37	11	mg/Kg	1		9251	Soluble

Client Sample ID: CZ 8.0 SED (10/16/2015)

Lab Sample ID: 660-69879-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.1		1.0	0.20	mg/Kg	1		6010B	Total/NA
Iron	2400		10	5.1	mg/Kg	1		6010B	Total/NA
Magnesium	470		51	3.1	mg/Kg	1		6010B	Total/NA
Manganese	5.8		1.0	0.10	mg/Kg	1		6010B	Total/NA
Potassium	72	I	100	10	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	730		20	10	mg/Kg	2		351.2	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 8.0 SED (10/16/2015) (Continued)

Lab Sample ID: 660-69879-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phosphorus, Total	110		2.0	0.60	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.073		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	1.9		0.99	0.32	mg/Kg	1		350.1	Soluble
Sulfate	85	I	93	26	mg/Kg	1		9038	Soluble
Chloride	730		37	11	mg/Kg	1		9251	Soluble

Client Sample ID: CZ 8.5 SED (10/16/2015)

Lab Sample ID: 660-69879-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.0		0.99	0.20	mg/Kg	1		6010B	Total/NA
Iron	2400		9.9	5.0	mg/Kg	1		6010B	Total/NA
Magnesium	490		50	3.0	mg/Kg	1		6010B	Total/NA
Manganese	6.6		0.99	0.099	mg/Kg	1		6010B	Total/NA
Potassium	81	I	99	9.9	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	1200		27	14	mg/Kg	2		351.2	Total/NA
Phosphorus, Total	220		2.7	0.81	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.12		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	1.8		0.99	0.32	mg/Kg	1		350.1	Soluble
Sulfate	120		99	28	mg/Kg	1		9038	Soluble
Chloride	880		39	12	mg/Kg	1		9251	Soluble

Client Sample ID: CZ 9.0 SED (10/16/2015)

Lab Sample ID: 660-69879-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.58	I	0.97	0.19	mg/Kg	1		6010B	Total/NA
Iron	1400		9.7	4.8	mg/Kg	1		6010B	Total/NA
Magnesium	330		48	2.9	mg/Kg	1		6010B	Total/NA
Manganese	4.7		0.97	0.097	mg/Kg	1		6010B	Total/NA
Potassium	61	I	97	9.7	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	650		16	8.6	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	160		3.3	0.99	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.065		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	1.6		0.99	0.32	mg/Kg	1		350.1	Soluble
Sulfate	46	I	98	27	mg/Kg	1		9038	Soluble
Chloride	640		39	12	mg/Kg	1		9251	Soluble

Client Sample ID: CZ 9.5 SED (10/16/2015)

Lab Sample ID: 660-69879-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.78	I	0.90	0.18	mg/Kg	1		6010B	Total/NA
Iron	2200		9.0	4.5	mg/Kg	1		6010B	Total/NA
Magnesium	460		45	2.7	mg/Kg	1		6010B	Total/NA
Manganese	5.7		0.90	0.090	mg/Kg	1		6010B	Total/NA
Potassium	89	I	90	9.0	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	720		16	8.3	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	130		3.2	0.96	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.072		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	1.4		1.0	0.32	mg/Kg	1		350.1	Soluble
Sulfate	120		98	27	mg/Kg	1		9038	Soluble
Chloride	900		39	12	mg/Kg	1		9251	Soluble

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 10.5 SW (10/19/2015)

Lab Sample ID: 660-69893-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.5	I	10	2.5	ug/L	1		6010B	Total
Iron	310		200	50	ug/L	1		6010B	Recoverable Total
Magnesium	99000		80	20	ug/L	1		6010B	Recoverable Total
Manganese	6.1		4.0	1.0	ug/L	1		6010B	Recoverable Total
Potassium	35000		1000	190	ug/L	1		6010B	Recoverable Total
Copper	3.5	I	10	2.5	ug/L	1		6010B	Dissolved
Magnesium	110000		80	20	ug/L	1		6010B	Dissolved
Potassium	37000		1000	190	ug/L	1		6010B	Dissolved
Total Kjeldahl Nitrogen	0.70		0.50	0.26	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.16		0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.10	V	0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.16		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.16		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	2000		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	180	J3	50	14	mg/L	10		SM 4500 SO4 E	Total/NA
Ferrous Iron	110	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.86		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: HM 10.5 PW (10/19/2015)

Lab Sample ID: 660-69893-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.1	I	10	2.5	ug/L	1		6010B	Total
Iron	70	I	200	50	ug/L	1		6010B	Recoverable Total
Magnesium	94000		80	20	ug/L	1		6010B	Recoverable Total
Manganese	5.1		4.0	1.0	ug/L	1		6010B	Recoverable Total
Potassium	32000		1000	190	ug/L	1		6010B	Recoverable Total
Copper	2.9	I	10	2.5	ug/L	1		6010B	Dissolved
Magnesium	98000		80	20	ug/L	1		6010B	Dissolved
Potassium	33000		1000	190	ug/L	1		6010B	Dissolved
Total Kjeldahl Nitrogen	0.59		0.50	0.26	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.10		0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.057	I V	0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.10		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.10		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	1800		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	180		50	14	mg/L	10		SM 4500 SO4 E	Total/NA
Ferrous Iron	95	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.69		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.0060	I	0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: HM 9.5 SW (10/19/2015)

Lab Sample ID: 660-69893-3

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 9.5 SW (10/19/2015) (Continued)

Lab Sample ID: 660-69893-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.0	I	10	2.5	ug/L	1		6010B	Total
Iron	160	I	200	50	ug/L	1		6010B	Total
Magnesium	88000	J3	80	20	ug/L	1		6010B	Total
Manganese	3.6	I	4.0	1.0	ug/L	1		6010B	Total
Potassium	29000		1000	190	ug/L	1		6010B	Total
Copper	3.0	I	10	2.5	ug/L	1		6010B	Dissolved
Magnesium	89000		80	20	ug/L	1		6010B	Dissolved
Potassium	30000		1000	190	ug/L	1		6010B	Dissolved
Total Kjeldahl Nitrogen	0.51		0.50	0.26	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	1.0		0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.065	I V	0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.20		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.20		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	1600		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	140		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA
Ferrous Iron	90	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	1.5		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.0050	I	0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: HM 9.5 PW (10/19/2015)

Lab Sample ID: 660-69893-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.0	I	10	2.5	ug/L	1		6010B	Total
Iron	260		200	50	ug/L	1		6010B	Total
Magnesium	98000		80	20	ug/L	1		6010B	Total
Manganese	13		4.0	1.0	ug/L	1		6010B	Total
Potassium	36000		1000	190	ug/L	1		6010B	Total
Copper	3.2	I	10	2.5	ug/L	1		6010B	Dissolved
Magnesium	100000		80	20	ug/L	1		6010B	Dissolved
Manganese	5.6		4.0	1.0	ug/L	1		6010B	Dissolved
Potassium	37000		1000	190	ug/L	1		6010B	Dissolved
Total Kjeldahl Nitrogen	1.8		0.50	0.26	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.020	I	0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.39	V	0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.020		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.020		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	1800	J3	200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	180		50	14	mg/L	10		SM 4500 SO4 E	Total/NA
Ferrous Iron	180	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	1.8		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.044		0.010	0.0050	mg/L	1		365.2	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 10.5 SED (10/19/2015)

Lab Sample ID: 660-69893-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	4.0		0.95	0.19	mg/Kg	1		6010B	Total/NA
Iron	4200		9.5	4.7	mg/Kg	1		6010B	Total/NA
Magnesium	1100		47	2.8	mg/Kg	1		6010B	Total/NA
Manganese	18		0.95	0.095	mg/Kg	1		6010B	Total/NA
Potassium	270		95	9.5	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	780	J3	50	26	mg/Kg	5		351.2	Total/NA
Phosphorus, Total	160	J3	2.0	0.60	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.078		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	5.1		0.99	0.32	mg/Kg	1		350.1	Soluble
Orthophosphate	2.7		1.0	0.30	mg/Kg	1		365.1	Soluble
Sulfate	120		98	28	mg/Kg	1		9038	Soluble
Chloride	1200		79	24	mg/Kg	2		9251	Soluble

Client Sample ID: HM 10.0 SED (10/19/2015)

Lab Sample ID: 660-69893-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.1		0.92	0.18	mg/Kg	1		6010B	Total/NA
Iron	3400		9.2	4.6	mg/Kg	1		6010B	Total/NA
Magnesium	880		46	2.7	mg/Kg	1		6010B	Total/NA
Manganese	15		0.92	0.092	mg/Kg	1		6010B	Total/NA
Potassium	210		92	9.2	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	940		26	14	mg/Kg	2		351.2	Total/NA
Phosphorus, Total	160		2.6	0.78	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.094		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	5.1	J3	0.99	0.32	mg/Kg	1		350.1	Soluble
Orthophosphate	2.0		1.0	0.30	mg/Kg	1		365.1	Soluble
Sulfate	44	I	96	27	mg/Kg	1		9038	Soluble
Chloride	1100		77	23	mg/Kg	2		9251	Soluble

Client Sample ID: HM 9.5 SED (10/19/2015)

Lab Sample ID: 660-69893-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	4.9		0.97	0.19	mg/Kg	1		6010B	Total/NA
Iron	4100		9.7	4.9	mg/Kg	1		6010B	Total/NA
Magnesium	1000		49	2.9	mg/Kg	1		6010B	Total/NA
Manganese	18		0.97	0.097	mg/Kg	1		6010B	Total/NA
Potassium	260		97	9.7	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	1000		25	13	mg/Kg	2		351.2	Total/NA
Phosphorus, Total	170		2.5	0.75	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.10		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	7.3		0.99	0.32	mg/Kg	1		350.1	Soluble
Orthophosphate	1.9		1.0	0.30	mg/Kg	1		365.1	Soluble
Sulfate	130		97	27	mg/Kg	1		9038	Soluble
Chloride	1800		77	23	mg/Kg	2		9251	Soluble

Client Sample ID: HM 9.0 SED (10/19/2015)

Lab Sample ID: 660-69893-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	7.1		0.97	0.19	mg/Kg	1		6010B	Total/NA
Iron	5000		9.7	4.9	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 9.0 SED (10/19/2015) (Continued)

Lab Sample ID: 660-69893-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	1200		49	2.9	mg/Kg	1		6010B	Total/NA
Manganese	20		0.97	0.097	mg/Kg	1		6010B	Total/NA
Potassium	290		97	9.7	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	1400		61	32	mg/Kg	5		351.2	Total/NA
Phosphorus, Total	170		2.4	0.73	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.14		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	11		0.99	0.32	mg/Kg	1		350.1	Soluble
Orthophosphate	2.0		1.0	0.30	mg/Kg	1		365.1	Soluble
Sulfate	210		100	28	mg/Kg	1		9038	Soluble
Chloride	2000		80	24	mg/Kg	2		9251	Soluble

Client Sample ID: HM8.5 SW (10/20/2015)

Lab Sample ID: 660-69919-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.9	I	10	2.5	ug/L	1		6010B	Total Recoverable
Iron	140	I	200	50	ug/L	1		6010B	Total Recoverable
Magnesium	110000	J3	80	20	ug/L	1		6010B	Total Recoverable
Manganese	4.8		4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	42000		1000	190	ug/L	1		6010B	Total Recoverable
Copper	3.4	I	10	2.5	ug/L	1		6010B	Dissolved
Magnesium	110000		80	20	ug/L	1		6010B	Dissolved
Potassium	42000		1000	190	ug/L	1		6010B	Dissolved
Total Kjeldahl Nitrogen	0.50	V	0.50	0.26	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.18		0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.066	I V	0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.18		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.18		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	2200		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	240		50	14	mg/L	10		SM 4500 SO4 E	Total/NA
Ferrous Iron	140	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.68		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: HM8.5 PW (10/20/2015)

Lab Sample ID: 660-69919-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.3	I	10	2.5	ug/L	1		6010B	Total Recoverable
Iron	690		200	50	ug/L	1		6010B	Total Recoverable
Magnesium	97000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	38		4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	34000		1000	190	ug/L	1		6010B	Total Recoverable
Copper	3.4	I	10	2.5	ug/L	1		6010B	Dissolved
Iron	230		200	50	ug/L	1		6010B	Dissolved
Magnesium	99000		80	20	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM8.5 PW (10/20/2015) (Continued)

Lab Sample ID: 660-69919-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	8.9		4.0	1.0	ug/L	1		6010B	Dissolved
Potassium	35000		1000	190	ug/L	1		6010B	Dissolved
Ammonia (as N)	1.4		0.050	0.020	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	2.2	V	0.50	0.26	mg/L	1		351.2	Total/NA
Phosphorus, Total	0.55	V	0.10	0.032	mg/L	1		365.4	Total/NA
Chloride	1800		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	160		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA
Ferrous Iron	1800	Q	250	100	ug/L	5		SM3500_FE_D	Total/NA
Nitrogen, Total	2.2		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.50		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: HM7.5 SW (10/20/2015)

Lab Sample ID: 660-69919-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.7	I	10	2.5	ug/L	1		6010B	Total Recoverable
Iron	160	I	200	50	ug/L	1		6010B	Total Recoverable
Magnesium	84000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	2.9	I	4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	30000		1000	190	ug/L	1		6010B	Total Recoverable
Copper	3.2	I	10	2.5	ug/L	1		6010B	Dissolved
Magnesium	85000		80	20	ug/L	1		6010B	Dissolved
Potassium	30000		1000	190	ug/L	1		6010B	Dissolved
Total Kjeldahl Nitrogen	0.45	I V	0.50	0.26	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.23	V J3	0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.069	I V	0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.23		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.23		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	1600		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	200		50	14	mg/L	10		SM 4500 SO4 E	Total/NA
Ferrous Iron	130	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.68		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.0090	I	0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: HM7.5 PW (10/20/2015)

Lab Sample ID: 660-69919-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.7	I	10	2.5	ug/L	1		6010B	Total Recoverable
Iron	310		200	50	ug/L	1		6010B	Total Recoverable
Magnesium	86000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	5.4		4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	31000		1000	190	ug/L	1		6010B	Total Recoverable
Copper	3.0	I	10	2.5	ug/L	1		6010B	Dissolved
Magnesium	87000		80	20	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM7.5 PW (10/20/2015) (Continued)

Lab Sample ID: 660-69919-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	31000		1000	190	ug/L	1		6010B	Dissolved
Total Kjeldahl Nitrogen	0.73	V	0.50	0.26	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.21	V	0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.091	I V	0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.21		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.21		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	1700		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	170		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA
Ferrous Iron	180	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.94		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.012		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: HM6.5 SW (10-20-2015)

Lab Sample ID: 660-69919-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.4	I	10	2.5	ug/L	1		6010B	Total Recoverable
Iron	160	I	200	50	ug/L	1		6010B	Total Recoverable
Magnesium	71000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	2.5	I	4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	25000		1000	190	ug/L	1		6010B	Total Recoverable
Copper	2.7	I	10	2.5	ug/L	1		6010B	Dissolved
Magnesium	70000		80	20	ug/L	1		6010B	Dissolved
Potassium	25000		1000	190	ug/L	1		6010B	Dissolved
Total Kjeldahl Nitrogen	0.37	I V	0.50	0.26	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.28		0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.068	I V	0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.28		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.28		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	360		100	30	mg/L	50		SM 4500 Cl- E	Total/NA
Sulfate	150		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA
Ferrous Iron	110	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.65		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: HM6.5 PW (10-20-2015)

Lab Sample ID: 660-69919-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.2	I	10	2.5	ug/L	1		6010B	Total Recoverable
Iron	81	I	200	50	ug/L	1		6010B	Total Recoverable
Magnesium	92000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	9.2		4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	32000		1000	190	ug/L	1		6010B	Total Recoverable
Copper	3.0	I	10	2.5	ug/L	1		6010B	Dissolved
Magnesium	94000		80	20	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM6.5 PW (10-20-2015) (Continued)

Lab Sample ID: 660-69919-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	1.4	I	4.0	1.0	ug/L		1	6010B	Dissolved
Potassium	33000		1000	190	ug/L		1	6010B	Dissolved
Ammonia (as N)	0.68		0.050	0.020	mg/L		1	350.1	Total/NA
Total Kjeldahl Nitrogen	1.4	V	0.50	0.26	mg/L		1	351.2	Total/NA
Nitrate Nitrite as N	0.019	I V	0.050	0.018	mg/L		1	353.2	Total/NA
Phosphorus, Total	0.17	V	0.10	0.032	mg/L		1	365.4	Total/NA
Nitrate as N	0.019	I	0.020	0.010	mg/L		1	Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.019	I	0.020	0.010	mg/L		1	Nitrate by calc	Total/NA
Chloride	1800		200	60	mg/L		100	SM 4500 Cl- E	Total/NA
Sulfate	170		25	7.0	mg/L		5	SM 4500 SO4 E	Total/NA
Ferrous Iron	90	Q	50	20	ug/L		1	SM3500_FE_D	Total/NA
Nitrogen, Total	1.4		0.50	0.26	mg/L		1	Total Nitrogen	Total/NA
Orthophosphate	0.12		0.010	0.0050	mg/L		1	365.2	Dissolved

Client Sample ID: HM5.5 SW (10-20-2015)

Lab Sample ID: 660-69919-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	150	I	200	50	ug/L		1	6010B	Total Recoverable
Magnesium	64000	J3	80	20	ug/L		1	6010B	Total Recoverable
Manganese	2.0	I	4.0	1.0	ug/L		1	6010B	Total Recoverable
Potassium	21000		1000	190	ug/L		1	6010B	Total Recoverable
Magnesium	69000		80	20	ug/L		1	6010B	Dissolved
Potassium	22000		1000	190	ug/L		1	6010B	Dissolved
Total Kjeldahl Nitrogen	0.43	I V	0.50	0.26	mg/L		1	351.2	Total/NA
Nitrate Nitrite as N	0.34		0.050	0.018	mg/L		1	353.2	Total/NA
Phosphorus, Total	0.042	I V	0.10	0.032	mg/L		1	365.4	Total/NA
Nitrate as N	0.34		0.020	0.010	mg/L		1	Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.34		0.020	0.010	mg/L		1	Nitrate by calc	Total/NA
Chloride	1100		100	30	mg/L		50	SM 4500 Cl- E	Total/NA
Sulfate	140		25	7.0	mg/L		5	SM 4500 SO4 E	Total/NA
Ferrous Iron	97	Q	50	20	ug/L		1	SM3500_FE_D	Total/NA
Nitrogen, Total	0.77		0.50	0.26	mg/L		1	Total Nitrogen	Total/NA
Orthophosphate	0.0070	I	0.010	0.0050	mg/L		1	365.2	Dissolved

Client Sample ID: HM5.5 PW (10-20-2015)

Lab Sample ID: 660-69919-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.6	I	10	2.5	ug/L		1	6010B	Total Recoverable
Iron	98	I	200	50	ug/L		1	6010B	Total Recoverable
Magnesium	77000		80	20	ug/L		1	6010B	Total Recoverable
Manganese	7.6		4.0	1.0	ug/L		1	6010B	Total Recoverable
Potassium	26000		1000	190	ug/L		1	6010B	Total Recoverable
Magnesium	79000		80	20	ug/L		1	6010B	Dissolved
Potassium	26000		1000	190	ug/L		1	6010B	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM5.5 PW (10-20-2015) (Continued)

Lab Sample ID: 660-69919-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia (as N)	0.20		0.050	0.020	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.81	V	0.50	0.26	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.041	I V	0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.10	V	0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.041		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.041		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	370		100	30	mg/L	50		SM 4500 Cl- E	Total/NA
Sulfate	160		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA
Ferrous Iron	160	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.85		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.064		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: HM4.5 SW(10/20/2015)

Lab Sample ID: 660-69919-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.7	I	10	2.5	ug/L	1		6010B	Total Recoverable
Iron	50	I	200	50	ug/L	1		6010B	Total Recoverable
Magnesium	98000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	11		4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	37000		1000	190	ug/L	1		6010B	Total Recoverable
Copper	2.5	I	10	2.5	ug/L	1		6010B	Dissolved
Magnesium	99000		80	20	ug/L	1		6010B	Dissolved
Manganese	10		4.0	1.0	ug/L	1		6010B	Dissolved
Potassium	37000		1000	190	ug/L	1		6010B	Dissolved
Ammonia (as N)	6.5		0.25	0.10	mg/L	5		350.1	Total/NA
Total Kjeldahl Nitrogen	7.6		0.50	0.26	mg/L	1		351.2	Total/NA
Phosphorus, Total	0.66		0.10	0.032	mg/L	1		365.4	Total/NA
Chloride	1900		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	140		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA
Ferrous Iron	71	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	7.6		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.18		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: HM4.5 PW (10-20-2015)

Lab Sample ID: 660-69919-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.6	I	10	2.5	ug/L	1		6010B	Total Recoverable
Iron	130	I	200	50	ug/L	1		6010B	Total Recoverable
Magnesium	65000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	1.9	I	4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	21000		1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	66000		80	20	ug/L	1		6010B	Dissolved
Potassium	21000		1000	190	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM4.5 PW (10-20-2015) (Continued)

Lab Sample ID: 660-69919-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Kjeldahl Nitrogen	0.41	I V	0.50	0.26	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.35		0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.056	I V	0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.35		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.35		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	1100	J3	100	30	mg/L	50		SM 4500 Cl- E	Total/NA
Sulfate	140		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA
Ferrous Iron	100	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.76		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.011		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: HM3.5 SW (10-20-2015)

Lab Sample ID: 660-69919-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.3	I	10	2.5	ug/L	1		6010B	Total Recoverable
Iron	85	I	200	50	ug/L	1		6010B	Total Recoverable
Magnesium	86000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	1.2	I	4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	29000		1000	190	ug/L	1		6010B	Total Recoverable
Copper	2.7	I	10	2.5	ug/L	1		6010B	Dissolved
Magnesium	95000		80	20	ug/L	1		6010B	Dissolved
Potassium	33000		1000	190	ug/L	1		6010B	Dissolved
Total Kjeldahl Nitrogen	0.47	I V	0.50	0.26	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.21	V	0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.072	I V	0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.21		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.21		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	1800		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	190		50	14	mg/L	10		SM 4500 SO4 E	Total/NA
Ferrous Iron	86	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.68		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: HM3.5 PW (10/20/2015)

Lab Sample ID: 660-69919-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.0	I	10	2.5	ug/L	1		6010B	Total Recoverable
Magnesium	99000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	8.3		4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	35000		1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	99000		80	20	ug/L	1		6010B	Dissolved
Manganese	7.9		4.0	1.0	ug/L	1		6010B	Dissolved
Potassium	35000		1000	190	ug/L	1		6010B	Dissolved
Ammonia (as N)	3.3		0.050	0.020	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	4.3		0.50	0.26	mg/L	1		351.2	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM3.5 PW (10/20/2015) (Continued)

Lab Sample ID: 660-69919-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phosphorus, Total	0.26	V	0.10	0.032	mg/L	1		365.4	Total/NA
Chloride	2000		200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	130		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA
Ferrous Iron	67	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	4.3		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.087		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: HM8.5 SED (10/20/2015)

Lab Sample ID: 660-69919-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	4.8		0.96	0.19	mg/Kg	1		6010B	Total/NA
Iron	2900		9.6	4.8	mg/Kg	1		6010B	Total/NA
Magnesium	620		48	2.9	mg/Kg	1		6010B	Total/NA
Manganese	11		0.96	0.096	mg/Kg	1		6010B	Total/NA
Potassium	140		96	9.6	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	870	J3	74	39	mg/Kg	5		351.2	Total/NA
Phosphorus, Total	110		3.0	0.89	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.087		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	3.2		1.0	0.32	mg/Kg	1		350.1	Soluble
Nitrate Nitrite as N	0.36	I V	1.0	0.36	mg/Kg	1		353.2	Soluble
Orthophosphate	1.4		1.0	0.30	mg/Kg	1		365.1	Soluble
Sulfate	110		97	27	mg/Kg	1		9038	Soluble
Chloride	920		39	12	mg/Kg	1		9251	Soluble
Nitrate as N	0.36	I	1.0	0.36	mg/Kg	1		Nitrate by calc	Soluble

Client Sample ID: HM 8.0SED (10/21/2015)

Lab Sample ID: 660-69974-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.3		0.92	0.18	mg/Kg	1		6010B	Total/NA
Iron	2300	J3	9.2	4.6	mg/Kg	1		6010B	Total/NA
Magnesium	560		46	2.8	mg/Kg	1		6010B	Total/NA
Manganese	7.5		0.92	0.092	mg/Kg	1		6010B	Total/NA
Potassium	120		92	9.2	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	770		25	13	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	130		5.0	1.5	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.077		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Sulfate	160		92	26	mg/Kg	1		9038	Soluble
Chloride	840		37	11	mg/Kg	1		9251	Soluble

Client Sample ID: HM 7.5 SED (10/21/2015)

Lab Sample ID: 660-69974-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	5.0		0.99	0.20	mg/Kg	1		6010B	Total/NA
Iron	2400		9.9	5.0	mg/Kg	1		6010B	Total/NA
Magnesium	500		50	3.0	mg/Kg	1		6010B	Total/NA
Manganese	8.8		0.99	0.099	mg/Kg	1		6010B	Total/NA
Potassium	120		99	9.9	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	890		33	17	mg/Kg	2		351.2	Total/NA
Phosphorus, Total	100		3.3	1.0	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.089		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 7.5 SED (10/21/2015) (Continued)

Lab Sample ID: 660-69974-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Orthophosphate	0.42	I	1.0	0.30	mg/Kg	1		365.1	Soluble
Sulfate	110		95	27	mg/Kg	1		9038	Soluble
Chloride	860		38	11	mg/Kg	1		9251	Soluble

Client Sample ID: HM 7.0 SED (10/21/2015)

Lab Sample ID: 660-69974-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	6.4		1.0	0.21	mg/Kg	1		6010B	Total/NA
Iron	3000		10	5.2	mg/Kg	1		6010B	Total/NA
Magnesium	670		52	3.1	mg/Kg	1		6010B	Total/NA
Manganese	11		1.0	0.10	mg/Kg	1		6010B	Total/NA
Potassium	140		100	10	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	1300		61	32	mg/Kg	5		351.2	Total/NA
Phosphorus, Total	160		2.5	0.74	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.13		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	0.91	I	1.0	0.32	mg/Kg	1		350.1	Soluble
Orthophosphate	0.39	I	1.0	0.30	mg/Kg	1		365.1	Soluble
Sulfate	140		93	26	mg/Kg	1		9038	Soluble
Chloride	960		75	22	mg/Kg	2		9251	Soluble

Client Sample ID: HM 6.5 SED (10/21/2015)

Lab Sample ID: 660-69974-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.9		0.91	0.18	mg/Kg	1		6010B	Total/NA
Iron	1400		9.1	4.6	mg/Kg	1		6010B	Total/NA
Magnesium	300		46	2.7	mg/Kg	1		6010B	Total/NA
Manganese	4.4		0.91	0.091	mg/Kg	1		6010B	Total/NA
Potassium	77	I	91	9.1	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	510		11	5.9	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	63	V	2.3	0.68	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.051		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Nitrate Nitrite as N	0.44	I	1.0	0.36	mg/Kg	1		353.2	Soluble
Orthophosphate	0.55	I	1.0	0.30	mg/Kg	1		365.1	Soluble
Sulfate	68	I	95	27	mg/Kg	1		9038	Soluble
Chloride	590		38	11	mg/Kg	1		9251	Soluble
Nitrate as N	0.44	I	1.0	0.36	mg/Kg	1		Nitrate by calc	Soluble

Client Sample ID: HM 6.0 SED (10/21/2015)

Lab Sample ID: 660-69974-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.8		1.0	0.20	mg/Kg	1		6010B	Total/NA
Iron	1200		10	5.0	mg/Kg	1		6010B	Total/NA
Magnesium	270		50	3.0	mg/Kg	1		6010B	Total/NA
Manganese	3.6		1.0	0.10	mg/Kg	1		6010B	Total/NA
Potassium	65	I	100	10	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	220		12	6.0	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	74	V	2.3	0.69	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.022		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Nitrate Nitrite as N	3.0		1.0	0.36	mg/Kg	1		353.2	Soluble
Orthophosphate	0.59	I	1.0	0.30	mg/Kg	1		365.1	Soluble

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 6.0 SED (10/21/2015) (Continued)

Lab Sample ID: 660-69974-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	49	I	96	27	mg/Kg	1		9038	Soluble
Chloride	500		39	12	mg/Kg	1		9251	Soluble
Nitrate as N	3.0		1.0	0.36	mg/Kg	1		Nitrate by calc	Soluble

Client Sample ID: HM 5.5 SED (10/21/2015)

Lab Sample ID: 660-69974-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	4.8		0.97	0.19	mg/Kg	1		6010B	Total/NA
Iron	2100		9.7	4.8	mg/Kg	1		6010B	Total/NA
Magnesium	470		48	2.9	mg/Kg	1		6010B	Total/NA
Manganese	5.8		0.97	0.097	mg/Kg	1		6010B	Total/NA
Potassium	98		97	9.7	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	1100		28	15	mg/Kg	2		351.2	Total/NA
Phosphorus, Total	120		2.8	0.85	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.11		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Orthophosphate	0.35	I	1.0	0.30	mg/Kg	1		365.1	Soluble
Sulfate	160		98	27	mg/Kg	1		9038	Soluble
Chloride	890		39	12	mg/Kg	1		9251	Soluble

Client Sample ID: HM 5.0 SED (10/21/2015)

Lab Sample ID: 660-69974-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.0		0.93	0.19	mg/Kg	1		6010B	Total/NA
Iron	810		9.3	4.6	mg/Kg	1		6010B	Total/NA
Magnesium	170		46	2.8	mg/Kg	1		6010B	Total/NA
Manganese	1.9		0.93	0.093	mg/Kg	1		6010B	Total/NA
Potassium	41	I	93	9.3	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	87		20	10	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	22		4.0	1.2	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.0087		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Orthophosphate	1.1		1.0	0.30	mg/Kg	1		365.1	Soluble
Sulfate	74	I	93	26	mg/Kg	1		9038	Soluble
Chloride	400		37	11	mg/Kg	1		9251	Soluble

Client Sample ID: HM 4.5 SED (10/21/2015)

Lab Sample ID: 660-69974-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.4		0.96	0.19	mg/Kg	1		6010B	Total/NA
Iron	570		9.6	4.8	mg/Kg	1		6010B	Total/NA
Magnesium	160		48	2.9	mg/Kg	1		6010B	Total/NA
Manganese	1.4		0.96	0.096	mg/Kg	1		6010B	Total/NA
Potassium	34	I	96	9.6	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	170		12	6.2	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	36		2.4	0.72	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.017		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Nitrate Nitrite as N	0.81	I	1.0	0.36	mg/Kg	1		353.2	Soluble
Orthophosphate	0.45	I	1.0	0.30	mg/Kg	1		365.1	Soluble
Sulfate	76	I	91	26	mg/Kg	1		9038	Soluble
Chloride	470		37	11	mg/Kg	1		9251	Soluble
Nitrate as N	0.81	I	1.0	0.36	mg/Kg	1		Nitrate by calc	Soluble

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 4.0 SED (10/21/2015)

Lab Sample ID: 660-69974-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.1		0.97	0.19	mg/Kg	1		6010B	Total/NA
Iron	800		9.7	4.9	mg/Kg	1		6010B	Total/NA
Magnesium	220		49	2.9	mg/Kg	1		6010B	Total/NA
Manganese	2.1		0.97	0.097	mg/Kg	1		6010B	Total/NA
Potassium	40	I	97	9.7	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	600		23	12	mg/Kg	2		351.2	Total/NA
Phosphorus, Total	66		2.3	0.68	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.060		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Nitrate Nitrite as N	0.49	I	1.0	0.36	mg/Kg	1		353.2	Soluble
Sulfate	94		94	26	mg/Kg	1		9038	Soluble
Chloride	560		38	11	mg/Kg	1		9251	Soluble
Nitrate as N	0.49	I	1.0	0.36	mg/Kg	1		Nitrate by calc	Soluble

Client Sample ID: HM 3.5 SED (10/21/2015)

Lab Sample ID: 660-69974-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.1		1.1	0.21	mg/Kg	1		6010B	Total/NA
Iron	1200		11	5.3	mg/Kg	1		6010B	Total/NA
Magnesium	250		53	3.2	mg/Kg	1		6010B	Total/NA
Manganese	2.4		1.1	0.11	mg/Kg	1		6010B	Total/NA
Potassium	47	I	110	11	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	670		18	9.3	mg/Kg	2		351.2	Total/NA
Phosphorus, Total	65		1.8	0.54	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.067		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Nitrate Nitrite as N	2.2		1.0	0.36	mg/Kg	1		353.2	Soluble
Sulfate	130		95	27	mg/Kg	1		9038	Soluble
Chloride	740		38	11	mg/Kg	1		9251	Soluble
Nitrate as N	2.2		1.0	0.36	mg/Kg	1		Nitrate by calc	Soluble

Client Sample ID: HM 3.0 SED (10/21/2015)

Lab Sample ID: 660-69974-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	8.6		0.99	0.20	mg/Kg	1		6010B	Total/NA
Iron	2100		9.9	4.9	mg/Kg	1		6010B	Total/NA
Magnesium	430		49	3.0	mg/Kg	1		6010B	Total/NA
Manganese	4.3		0.99	0.099	mg/Kg	1		6010B	Total/NA
Potassium	67	I	99	9.9	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	370		81	42	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	110		3.4	1.0	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.037		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Sulfate	170		96	27	mg/Kg	1		9038	Soluble
Chloride	1100		77	23	mg/Kg	2		9251	Soluble

Client Sample ID: HM 2.5 SW (10/21/2015)

Lab Sample ID: 660-69974-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	93	I	200	50	ug/L	1		6010B	Total Recoverable
Magnesium	46000		80	20	ug/L	1		6010B	Total Recoverable

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 2.5 SW (10/21/2015) (Continued)

Lab Sample ID: 660-69974-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	2.2	I	4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	14000		1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	46000		80	20	ug/L	1		6010B	Dissolved
Potassium	14000		1000	190	ug/L	1		6010B	Dissolved
Total Kjeldahl Nitrogen	0.29	I V	0.50	0.26	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.46		0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.057	I V	0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.46		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.46		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	710		40	12	mg/L	20		SM 4500 Cl- E	Total/NA
Sulfate	100		25	7.0	mg/L	5		SM 4500 SO4 E	Total/NA
Ferrous Iron	62	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.75		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.0070	I	0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: HM 2.5 PW (10/21/2015)

Lab Sample ID: 660-69974-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	51	I	200	50	ug/L	1		6010B	Total Recoverable
Magnesium	59000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	10		4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	21000		1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	57000		80	20	ug/L	1		6010B	Dissolved
Potassium	20000		1000	190	ug/L	1		6010B	Dissolved
Ammonia (as N)	0.22		0.050	0.020	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.66	V	0.50	0.26	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.030	I V	0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.11	V	0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.030		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.030		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	1100		100	30	mg/L	50		SM 4500 Cl- E	Total/NA
Sulfate	120		50	14	mg/L	10		SM 4500 SO4 E	Total/NA
Ferrous Iron	120	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.69		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.066		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: HM SED 2.5 (10/21/2015)

Lab Sample ID: 660-69974-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	3.4		0.99	0.20	mg/Kg	1		6010B	Total/NA
Iron	1100		9.9	5.0	mg/Kg	1		6010B	Total/NA
Magnesium	210		50	3.0	mg/Kg	1		6010B	Total/NA
Manganese	2.2		0.99	0.099	mg/Kg	1		6010B	Total/NA
Potassium	34	I	99	9.9	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	350		17	8.7	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	77		3.3	1.0	mg/Kg	1		365.4	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM SED 2.5 (10/21/2015) (Continued)

Lab Sample ID: 660-69974-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrogen, Total	0.035		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Nitrate Nitrite as N	4.4	I	1.0	0.36	mg/Kg	1		353.2	Soluble
Sulfate	78	I	92	26	mg/Kg	1		9038	Soluble
Chloride	530		37	11	mg/Kg	1		9251	Soluble
Nitrate as N	4.4		1.0	0.36	mg/Kg	1		Nitrate by calc	Soluble

Client Sample ID: HM1.5 SW(10/22/2015)

Lab Sample ID: 660-70002-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	120	I	200	50	ug/L	1		6010B	Total Recoverable
Magnesium	60000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	4.0		4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	19000		1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	60000		80	20	ug/L	1		6010B	Dissolved
Potassium	19000		1000	190	ug/L	1		6010B	Dissolved
Nitrate Nitrite as N	0.54		0.050	0.018	mg/L	1		353.2	Total/NA
Nitrate as N	0.54		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.54		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	380		100	30	mg/L	50		SM 4500 Cl- E	Total/NA
Sulfate	140		50	14	mg/L	10		SM 4500 SO4 E	Total/NA
Ferrous Iron	80	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.54		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.014		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: HM1.5 PW(10/22/2015)

Lab Sample ID: 660-70002-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.5	I	10	2.5	ug/L	1		6010B	Total Recoverable
Magnesium	78000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	3.9	I	4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	26000		1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	78000		80	20	ug/L	1		6010B	Dissolved
Manganese	3.5	I	4.0	1.0	ug/L	1		6010B	Dissolved
Potassium	26000		1000	190	ug/L	1		6010B	Dissolved
Ammonia (as N)	1.1		0.050	0.020	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	1.6		0.50	0.26	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.15	V	0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.20		0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.15		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.15		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	380		100	30	mg/L	50		SM 4500 Cl- E	Total/NA
Sulfate	170		50	14	mg/L	10		SM 4500 SO4 E	Total/NA
Ferrous Iron	64	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	1.8		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM1.5 PW(10/22/2015) (Continued)

Lab Sample ID: 660-70002-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Orthophosphate	0.15		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: WW8.5SW(10/22/2015)

Lab Sample ID: 660-70002-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	6600		80	20	ug/L	1		6010B	Total Recoverable
Potassium	520	I	1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	6700		80	20	ug/L	1		6010B	Dissolved
Potassium	480	I	1000	190	ug/L	1		6010B	Dissolved
Nitrate Nitrite as N	0.71		0.050	0.018	mg/L	1		353.2	Total/NA
Nitrate as N	0.71		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.71		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	15		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	13		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Ferrous Iron	34	I Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.71		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.0060	I	0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: WW8.5PW(10/22/2015)

Lab Sample ID: 660-70002-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.7	I	10	2.5	ug/L	1		6010B	Total Recoverable
Magnesium	58000		80	20	ug/L	1		6010B	Total Recoverable
Potassium	18000		1000	190	ug/L	1		6010B	Total Recoverable
Copper	2.9	I	10	2.5	ug/L	1		6010B	Dissolved
Magnesium	59000		80	20	ug/L	1		6010B	Dissolved
Potassium	18000		1000	190	ug/L	1		6010B	Dissolved
Ammonia (as N)	2.7		0.050	0.020	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	3.6		0.50	0.26	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.068	V	0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.27		0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.068		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.068		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	1100	J3	200	60	mg/L	100		SM 4500 Cl- E	Total/NA
Sulfate	16		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Ferrous Iron	92	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	3.7		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.11		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: HM2.0SED(10/22/2015)

Lab Sample ID: 660-70002-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.8		0.94	0.19	mg/Kg	1		6010B	Total/NA
Iron	480		9.4	4.7	mg/Kg	1		6010B	Total/NA
Magnesium	95		47	2.8	mg/Kg	1		6010B	Total/NA
Manganese	0.94		0.94	0.094	mg/Kg	1		6010B	Total/NA
Potassium	32	I	94	9.4	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM2.0SED(10/22/2015) (Continued)

Lab Sample ID: 660-70002-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Kjeldahl Nitrogen	490	J3	71	37	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	70	J3	3.6	1.1	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.050		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	1.1		1.0	0.32	mg/Kg	1		350.1	Soluble
Nitrate Nitrite as N	7.6		1.0	0.36	mg/Kg	1		353.2	Soluble
Chloride	24	I	38	11	mg/Kg	1		9251	Soluble
Nitrate as N	7.6		1.0	0.36	mg/Kg	1		Nitrate by calc	Soluble

Client Sample ID: HM1.5SED(10/22/2015)

Lab Sample ID: 660-70002-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	17		0.93	0.19	mg/Kg	1		6010B	Total/NA
Iron	4200		9.3	4.6	mg/Kg	1		6010B	Total/NA
Magnesium	540		46	2.8	mg/Kg	1		6010B	Total/NA
Manganese	9.0		0.93	0.093	mg/Kg	1		6010B	Total/NA
Potassium	62	I	93	9.3	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	930		130	69	mg/Kg	2		351.2	Total/NA
Phosphorus, Total	130		3.3	1.0	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.093		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Orthophosphate	0.49	I J3	1.0	0.30	mg/Kg	1		365.1	Soluble
Sulfate	90	I	98	27	mg/Kg	1		9038	Soluble
Chloride	870		39	12	mg/Kg	1		9251	Soluble

Client Sample ID: HM1.0SED(10/22/2015)

Lab Sample ID: 660-70002-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	1.5		0.97	0.19	mg/Kg	1		6010B	Total/NA
Iron	1200		9.7	4.8	mg/Kg	1		6010B	Total/NA
Magnesium	170		48	2.9	mg/Kg	1		6010B	Total/NA
Manganese	1.9		0.97	0.097	mg/Kg	1		6010B	Total/NA
Potassium	32	I	97	9.7	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	360		42	22	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	65		2.1	0.64	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.036		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Orthophosphate	1.3		1.0	0.30	mg/Kg	1		365.1	Soluble
Chloride	380		36	11	mg/Kg	1		9251	Soluble

Client Sample ID: WW9.5SED(10/22/2015)

Lab Sample ID: 660-70002-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.19	I	0.93	0.19	mg/Kg	1		6010B	Total/NA
Iron	75		9.3	4.7	mg/Kg	1		6010B	Total/NA
Magnesium	26	I	47	2.8	mg/Kg	1		6010B	Total/NA
Manganese	0.45	I	0.93	0.093	mg/Kg	1		6010B	Total/NA
Potassium	12	I	93	9.3	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	96		48	25	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	34		2.4	0.71	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.0096		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Chloride	150		36	11	mg/Kg	1		9251	Soluble

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW9.0SED(10/22/2015)

Lab Sample ID: 660-70002-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	38		9.9	5.0	mg/Kg	1		6010B	Total/NA
Magnesium	18	I	50	3.0	mg/Kg	1		6010B	Total/NA
Manganese	0.23	I	0.99	0.099	mg/Kg	1		6010B	Total/NA
Potassium	11	I	99	9.9	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	130		56	29	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	46		2.8	0.84	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.013		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Chloride	74		38	11	mg/Kg	1		9251	Soluble

Client Sample ID: WW8.5SED(10/22/2015)

Lab Sample ID: 660-70002-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	59		9.6	4.8	mg/Kg	1		6010B	Total/NA
Magnesium	14	I	48	2.9	mg/Kg	1		6010B	Total/NA
Manganese	0.23	I	0.96	0.096	mg/Kg	1		6010B	Total/NA
Potassium	11	I	96	9.6	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	150		30	16	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	18		1.5	0.45	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.015		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Chloride	29	I	40	12	mg/Kg	1		9251	Soluble

Client Sample ID: WW7.5SW(10/23/2015)

Lab Sample ID: 660-70026-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	6500		80	20	ug/L	1		6010B	Total Recoverable
Potassium	530	I	1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	6500		80	20	ug/L	1		6010B	Dissolved
Potassium	500	I	1000	190	ug/L	1		6010B	Dissolved
Nitrate Nitrite as N	0.84		0.050	0.018	mg/L	1		353.2	Total/NA
Nitrate as N	0.84		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.84		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	12		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	12		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Ferrous Iron	49	I Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.84		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: WW7.5 PW(10/23/2015)

Lab Sample ID: 660-70026-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	2200		200	50	ug/L	1		6010B	Total Recoverable
Magnesium	7400		80	20	ug/L	1		6010B	Total Recoverable
Manganese	50		4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	6800		1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	7500		80	20	ug/L	1		6010B	Dissolved
Manganese	46		4.0	1.0	ug/L	1		6010B	Dissolved
Potassium	6700		1000	190	ug/L	1		6010B	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW7.5 PW(10/23/2015) (Continued)

Lab Sample ID: 660-70026-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia (as N)	30		0.50	0.20	mg/L	10		350.1	Total/NA
Total Kjeldahl Nitrogen	34		1.0	0.52	mg/L	2		351.2	Total/NA
Phosphorus, Total	5.1		0.10	0.032	mg/L	1		365.4	Total/NA
Chloride	18		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Ferrous Iron	2400	Q	250	100	ug/L	5		SM3500_FE_D	Total/NA
Nitrogen, Total	34		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	6.4		0.10	0.050	mg/L	10		365.2	Dissolved

Client Sample ID: WW6.5SW(10/23/2015)

Lab Sample ID: 660-70026-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	6300		80	20	ug/L	1		6010B	Total Recoverable
Potassium	460	I	1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	6300		80	20	ug/L	1		6010B	Dissolved
Potassium	410	I	1000	190	ug/L	1		6010B	Dissolved
Nitrate Nitrite as N	0.82		0.050	0.018	mg/L	1		353.2	Total/NA
Nitrate as N	0.82		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.82		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	11		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	12		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Ferrous Iron	49	I Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.82		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.10		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: WW6.5PW(10/23/2015)

Lab Sample ID: 660-70026-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	370		200	50	ug/L	1		6010B	Total Recoverable
Magnesium	6300		80	20	ug/L	1		6010B	Total Recoverable
Manganese	4.5		4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	1100		1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	6600		80	20	ug/L	1		6010B	Dissolved
Manganese	4.0		4.0	1.0	ug/L	1		6010B	Dissolved
Potassium	1000		1000	190	ug/L	1		6010B	Dissolved
Ammonia (as N)	2.0		0.050	0.020	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	2.5		0.50	0.26	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.11		0.050	0.018	mg/L	1		353.2	Total/NA
Nitrite as N	0.019		0.010	0.0050	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.31		0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.091		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.11		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	14		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	4.8	I	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Ferrous Iron	400	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	2.6		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.34		0.010	0.0050	mg/L	1		365.2	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW8.0SED(10/23/2015)

Lab Sample ID: 660-70026-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	75		9.9	4.9	mg/Kg	1		6010B	Total/NA
Magnesium	23	I	49	3.0	mg/Kg	1		6010B	Total/NA
Manganese	0.31	I	0.99	0.099	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	95		68	36	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	19		3.4	1.0	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.0095		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Chloride	360		40	12	mg/Kg	1		9251	Soluble

Client Sample ID: WW7.5SED(10/23/2015)

Lab Sample ID: 660-70026-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	58		10	5.0	mg/Kg	1		6010B	Total/NA
Magnesium	18	I	50	3.0	mg/Kg	1		6010B	Total/NA
Manganese	0.28	I	1.0	0.10	mg/Kg	1		6010B	Total/NA
Potassium	11	I	100	10	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	78		48	25	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	16	V	2.4	0.71	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.0078		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA

Client Sample ID: WW7.0SED(10/23/2015)

Lab Sample ID: 660-70026-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	69		9.9	5.0	mg/Kg	1		6010B	Total/NA
Magnesium	31	I	50	3.0	mg/Kg	1		6010B	Total/NA
Manganese	0.24	I	0.99	0.099	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	220		52	27	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	26		2.6	0.77	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.022		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Chloride	61		36	11	mg/Kg	1		9251	Soluble

Client Sample ID: WW6.5SED(10/23/2015)

Lab Sample ID: 660-70026-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	70		9.7	4.8	mg/Kg	1		6010B	Total/NA
Magnesium	25	I	48	2.9	mg/Kg	1		6010B	Total/NA
Manganese	0.38	I	0.97	0.097	mg/Kg	1		6010B	Total/NA
Potassium	12	I	97	9.7	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	130		65	34	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	19		3.2	0.97	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.013		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Chloride	22	I	37	11	mg/Kg	1		9251	Soluble

Client Sample ID: WW6.0SED(10/23/2015)

Lab Sample ID: 660-70026-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	26		9.2	4.6	mg/Kg	1		6010B	Total/NA
Magnesium	12	I	46	2.8	mg/Kg	1		6010B	Total/NA
Manganese	0.23	I	0.92	0.092	mg/Kg	1		6010B	Total/NA
Potassium	11	I	92	9.2	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	150		40	21	mg/Kg	1		351.2	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW6.0SED(10/23/2015) (Continued)

Lab Sample ID: 660-70026-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phosphorus, Total	21		2.0	0.60	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.015		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA

Client Sample ID: WW5.5 SED (10/26/2015)

Lab Sample ID: 660-70053-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	34		9.2	4.6	mg/Kg	1		6010B	Total/NA
Magnesium	12	I	46	2.8	mg/Kg	1		6010B	Total/NA
Manganese	0.16	I	0.92	0.092	mg/Kg	1		6010B	Total/NA
Potassium	10	I	92	9.2	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	100		98	51	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	20		4.9	1.5	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.010		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Chloride	12	I	39	12	mg/Kg	1		9251	Soluble

Client Sample ID: WW5.25 SED (10/26/2015)

Lab Sample ID: 660-70053-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	41		9.2	4.6	mg/Kg	1		6010B	Total/NA
Magnesium	11	I	46	2.8	mg/Kg	1		6010B	Total/NA
Manganese	0.20	I	0.92	0.092	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	140		83	43	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	20		4.2	1.3	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.014		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	1.8		1.0	0.32	mg/Kg	1		350.1	Soluble
Chloride	12	I	35	10	mg/Kg	1		9251	Soluble

Client Sample ID: WW5.0 SED (10/26/2015)

Lab Sample ID: 660-70053-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	35		9.7	4.8	mg/Kg	1		6010B	Total/NA
Magnesium	18	I	48	2.9	mg/Kg	1		6010B	Total/NA
Manganese	0.22	I	0.97	0.097	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	65	I	89	46	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	14		4.5	1.3	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.0065		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA

Client Sample ID: WW.4.5 SED (10/26/2015)

Lab Sample ID: 660-70053-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	29		9.7	4.8	mg/Kg	1		6010B	Total/NA
Magnesium	17	I	48	2.9	mg/Kg	1		6010B	Total/NA
Manganese	0.21	I	0.97	0.097	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	150		78	41	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	17		3.9	1.2	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.015		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA

Client Sample ID: WW4.0 SED (10/26/2015)

Lab Sample ID: 660-70053-5

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW4.0 SED (10/26/2015) (Continued)

Lab Sample ID: 660-70053-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	110		9.9	5.0	mg/Kg	1		6010B	Total/NA
Magnesium	93		50	3.0	mg/Kg	1		6010B	Total/NA
Manganese	0.85	I	0.99	0.099	mg/Kg	1		6010B	Total/NA
Potassium	16	I	99	9.9	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	140		79	41	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	26		4.0	1.2	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.014		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	2.0		0.99	0.32	mg/Kg	1		350.1	Soluble

Client Sample ID: WW3.5 SED (10/26/2015)

Lab Sample ID: 660-70053-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	10		9.7	4.8	mg/Kg	1		6010B	Total/NA
Magnesium	12	I	48	2.9	mg/Kg	1		6010B	Total/NA
Manganese	0.18	I	0.97	0.097	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	100		43	23	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	16		2.2	0.65	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.010		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA

Client Sample ID: WW5.5 SW (10/26/2015)

Lab Sample ID: 660-70053-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	6600	J3	80	20	ug/L	1		6010B	Total Recoverable
Potassium	470	I	1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	6600		80	20	ug/L	1		6010B	Dissolved
Potassium	450	I	1000	190	ug/L	1		6010B	Dissolved
Nitrate Nitrite as N	0.87		0.050	0.018	mg/L	1		353.2	Total/NA
Nitrate as N	0.87		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.87		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	11		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	12		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Ferrous Iron	47	I Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.87		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: WW5.5 PW (10/26/2015)

Lab Sample ID: 660-70053-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	93	I	200	50	ug/L	1		6010B	Total Recoverable
Magnesium	7900		80	20	ug/L	1		6010B	Total Recoverable
Manganese	1.9	I	4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	810	I	1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	8100		80	20	ug/L	1		6010B	Dissolved
Manganese	1.8	I	4.0	1.0	ug/L	1		6010B	Dissolved
Potassium	780	I	1000	190	ug/L	1		6010B	Dissolved
Ammonia (as N)	0.83		0.050	0.020	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	1.1		0.50	0.26	mg/L	1		351.2	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW5.5 PW (10/26/2015) (Continued)

Lab Sample ID: 660-70053-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phosphorus, Total	0.20		0.10	0.032	mg/L	1		365.4	Total/NA
Chloride	11		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Ferrous Iron	150	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	1.1		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.19		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: WW5.25 SW (10/26/2015)

Lab Sample ID: 660-70053-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	6500		80	20	ug/L	1		6010B	Total Recoverable
Potassium	470	I	1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	6600		80	20	ug/L	1		6010B	Dissolved
Potassium	450	I	1000	190	ug/L	1		6010B	Dissolved
Nitrate Nitrite as N	0.84		0.050	0.018	mg/L	1		353.2	Total/NA
Nitrate as N	0.84		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.84		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	10		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	12		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Ferrous Iron	45	I Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.84		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: WW5.25 PW (10/26/2015)

Lab Sample ID: 660-70053-10

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	120	I	200	50	ug/L	1		6010B	Total Recoverable
Magnesium	7500		80	20	ug/L	1		6010B	Total Recoverable
Potassium	360	I	1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	7600		80	20	ug/L	1		6010B	Dissolved
Potassium	320	I	1000	190	ug/L	1		6010B	Dissolved
Chloride	9.6		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	13		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Ferrous Iron	150	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Orthophosphate	0.0060	I	0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: WW4.5 SW (10/26/2015)

Lab Sample ID: 660-70053-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	6700		80	20	ug/L	1		6010B	Total Recoverable
Potassium	470	I	1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	6600		80	20	ug/L	1		6010B	Dissolved
Potassium	450	I	1000	190	ug/L	1		6010B	Dissolved
Nitrate Nitrite as N	0.84		0.050	0.018	mg/L	1		353.2	Total/NA
Nitrate as N	0.84		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.84		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	11	J3	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW4.5 SW (10/26/2015) (Continued)

Lab Sample ID: 660-70053-11

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	12	J3	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Ferrous Iron	47	I Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.84		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: WW4.5 PW (10/26/2015)

Lab Sample ID: 660-70053-12

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	7000		80	20	ug/L	1		6010B	Total Recoverable
Manganese	4.1		4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	380	I	1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	7000		80	20	ug/L	1		6010B	Dissolved
Manganese	3.3	I	4.0	1.0	ug/L	1		6010B	Dissolved
Potassium	350	I	1000	190	ug/L	1		6010B	Dissolved
Ammonia (as N)	0.13		0.050	0.020	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.37	I	0.50	0.26	mg/L	1		351.2	Total/NA
Nitrate Nitrite as N	0.038	I	0.050	0.018	mg/L	1		353.2	Total/NA
Nitrite as N	0.0051	I	0.010	0.0050	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.042	I	0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.033		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.038		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	8.5		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	4.4	I	5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Ferrous Iron	88	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.41	I	0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.047		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: WW3.5 SW (10/26/2015)

Lab Sample ID: 660-70053-13

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	5.6	I	10	2.5	ug/L	1		6010B	Total Recoverable
Magnesium	6500		80	20	ug/L	1		6010B	Total Recoverable
Manganese	4.5		4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	450	I	1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	6600		80	20	ug/L	1		6010B	Dissolved
Potassium	460	I	1000	190	ug/L	1		6010B	Dissolved
Nitrate Nitrite as N	0.86		0.050	0.018	mg/L	1		353.2	Total/NA
Nitrate as N	0.86		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.86		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	11		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	12		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Ferrous Iron	41	I Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.86		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: WW3.5 PW (10/26/2015)

Lab Sample ID: 660-70053-14

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW3.5 PW (10/26/2015) (Continued)

Lab Sample ID: 660-70053-14

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	6400		80	20	ug/L	1		6010B	Total Recoverable
Manganese	2.0	I	4.0	1.0	ug/L	1		6010B	Total Recoverable
Potassium	510	I	1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	6500		80	20	ug/L	1		6010B	Dissolved
Manganese	1.1	I	4.0	1.0	ug/L	1		6010B	Dissolved
Potassium	500	I	1000	190	ug/L	1		6010B	Dissolved
Ammonia (as N)	0.41		0.050	0.020	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.53		0.50	0.26	mg/L	1		351.2	Total/NA
Phosphorus, Total	0.16		0.10	0.032	mg/L	1		365.4	Total/NA
Chloride	12		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	10		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Ferrous Iron	60	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.53		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.11		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: WW2.5 SW (10/27/2015)

Lab Sample ID: 660-70082-1

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	6600		80	20	ug/L	1		6010B	Total Recoverable
Potassium	5500		1000	190	ug/L	1		6010B	Total Recoverable
Copper	7.5	I	10	2.5	ug/L	1		6010B	Dissolved
Magnesium	6400		80	20	ug/L	1		6010B	Dissolved
Manganese	6.9		4.0	1.0	ug/L	1		6010B	Dissolved
Potassium	770	I	1000	190	ug/L	1		6010B	Dissolved
Nitrate Nitrite as N	0.89		0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.038	I	0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.89		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.89		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	11	J3	2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	11		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Ferrous Iron	28	I Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.89		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA

Client Sample ID: WW2.5 PW (10/27/2015)

Lab Sample ID: 660-70082-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	6200		80	20	ug/L	1		6010B	Total Recoverable
Potassium	2900		1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	6200		80	20	ug/L	1		6010B	Dissolved
Potassium	870	I	1000	190	ug/L	1		6010B	Dissolved
Ammonia (as N)	0.53		0.050	0.020	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	0.93		0.50	0.26	mg/L	1		351.2	Total/NA
Phosphorus, Total	0.13		0.10	0.032	mg/L	1		365.4	Total/NA
Chloride	14		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	6.1		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW2.5 PW (10/27/2015) (Continued)

Lab Sample ID: 660-70082-2

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ferrous Iron	77	Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.93		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.087		0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: WW1.5 SW (10/27/2015)

Lab Sample ID: 660-70082-3

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	6600		80	20	ug/L	1		6010B	Total Recoverable
Potassium	1900		1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	6700		80	20	ug/L	1		6010B	Dissolved
Potassium	710	I	1000	190	ug/L	1		6010B	Dissolved
Nitrate Nitrite as N	0.89		0.050	0.018	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.054	I	0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.89		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.89		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	11		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	11		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Ferrous Iron	24	I Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.89		0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.0060	I	0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: WW1.5 PW (10/27/2015)

Lab Sample ID: 660-70082-4

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	6300		80	20	ug/L	1		6010B	Total Recoverable
Potassium	960	I	1000	190	ug/L	1		6010B	Total Recoverable
Magnesium	6400		80	20	ug/L	1		6010B	Dissolved
Potassium	580	I	1000	190	ug/L	1		6010B	Dissolved
Nitrate Nitrite as N	0.30		0.050	0.018	mg/L	1		353.2	Total/NA
Nitrite as N	0.0081	I	0.010	0.0050	mg/L	1		353.2	Total/NA
Phosphorus, Total	0.047	I	0.10	0.032	mg/L	1		365.4	Total/NA
Nitrate as N	0.29		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Nitrate Nitrite as N	0.30		0.020	0.010	mg/L	1		Nitrate by calc	Total/NA
Chloride	8.6		2.0	0.60	mg/L	1		SM 4500 Cl- E	Total/NA
Sulfate	9.5		5.0	1.4	mg/L	1		SM 4500 SO4 E	Total/NA
Ferrous Iron	47	I Q	50	20	ug/L	1		SM3500_FE_D	Total/NA
Nitrogen, Total	0.30	I	0.50	0.26	mg/L	1		Total Nitrogen	Total/NA
Orthophosphate	0.0070	I	0.010	0.0050	mg/L	1		365.2	Dissolved

Client Sample ID: WW3.0 SED (10/27/2015)

Lab Sample ID: 660-70082-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.29	I	0.95	0.19	mg/Kg	1		6010B	Total/NA
Iron	49		9.5	4.8	mg/Kg	1		6010B	Total/NA
Magnesium	68		48	2.9	mg/Kg	1		6010B	Total/NA
Manganese	0.35	I	0.95	0.095	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	120		63	33	mg/Kg	1		351.2	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW3.0 SED (10/27/2015) (Continued)

Lab Sample ID: 660-70082-5

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phosphorus, Total	16	V J3	3.2	0.95	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.012		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	1.8		0.97	0.31	mg/Kg	1		350.1	Soluble

Client Sample ID: WW2.5 SED (10/27/2015)

Lab Sample ID: 660-70082-6

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.40	I	1.1	0.21	mg/Kg	1		6010B	Total/NA
Iron	17		11	5.3	mg/Kg	1		6010B	Total/NA
Magnesium	38	I	53	3.2	mg/Kg	1		6010B	Total/NA
Manganese	0.22	I	1.1	0.11	mg/Kg	1		6010B	Total/NA
Potassium	12	I	110	11	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	160		32	17	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	29		1.6	0.48	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.016		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	3.3		1.0	0.32	mg/Kg	1		350.1	Soluble
Orthophosphate	0.43	I	1.0	0.30	mg/Kg	1		365.1	Soluble

Client Sample ID: WW2.0 SED (10/27/2015)

Lab Sample ID: 660-70082-7

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.64	I	1.1	0.21	mg/Kg	1		6010B	Total/NA
Iron	790		11	5.4	mg/Kg	1		6010B	Total/NA
Magnesium	84		54	3.2	mg/Kg	1		6010B	Total/NA
Manganese	2.2		1.1	0.11	mg/Kg	1		6010B	Total/NA
Potassium	18	I	110	11	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	140		61	32	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	36		3.0	0.91	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.014		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	1.7		1.0	0.32	mg/Kg	1		350.1	Soluble
Orthophosphate	0.30	I	1.0	0.30	mg/Kg	1		365.1	Soluble
Sulfate	120		93	26	mg/Kg	1		9038	Soluble
Chloride	31	I	37	11	mg/Kg	1		9251	Soluble

Client Sample ID: WW1.5 SED (10/27/2015)

Lab Sample ID: 660-70082-8

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.43	I	0.91	0.18	mg/Kg	1		6010B	Total/NA
Iron	140		9.1	4.6	mg/Kg	1		6010B	Total/NA
Magnesium	150		46	2.7	mg/Kg	1		6010B	Total/NA
Manganese	0.55	I	0.91	0.091	mg/Kg	1		6010B	Total/NA
Potassium	14	I	91	9.1	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	340		57	30	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	36		2.9	0.86	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.034		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	4.5		1.0	0.32	mg/Kg	1		350.1	Soluble
Orthophosphate	0.42	I	1.0	0.30	mg/Kg	1		365.1	Soluble
Chloride	11	I	36	11	mg/Kg	1		9251	Soluble

Client Sample ID: WW1.0 SED (10/27/2015)

Lab Sample ID: 660-70082-9

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa

Detection Summary

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW1.0 SED (10/27/2015) (Continued)

Lab Sample ID: 660-70082-9

Analyte	Result	Qualifier	PQL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.27	I	0.92	0.18	mg/Kg	1		6010B	Total/NA
Iron	36		9.2	4.6	mg/Kg	1		6010B	Total/NA
Magnesium	150		46	2.7	mg/Kg	1		6010B	Total/NA
Manganese	0.28	I	0.92	0.092	mg/Kg	1		6010B	Total/NA
Potassium	10	I	92	9.2	mg/Kg	1		6010B	Total/NA
Total Kjeldahl Nitrogen	820		68	36	mg/Kg	1		351.2	Total/NA
Phosphorus, Total	95		3.4	1.0	mg/Kg	1		365.4	Total/NA
Nitrogen, Total	0.082		0.0050	0.0026	Percent	1		Total Nitrogen	Total/NA
Ammonia (as N)	1.8		1.0	0.32	mg/Kg	1		350.1	Soluble
Chloride	15	I	36	11	mg/Kg	1		9251	Soluble

This Detection Summary does not include radiochemical test results.

TestAmerica Tampa



Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 10 SW (08/12/2015)

Lab Sample ID: 660-68566-1

Date Collected: 08/12/15 13:26

Matrix: Water

Date Received: 08/13/15 06:45

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.4	I	10	2.5	ug/L		10/15/15 12:57	10/16/15 09:12	1
Iron	340		200	50	ug/L		10/15/15 12:57	10/16/15 09:12	1
Magnesium	96000		80	20	ug/L		10/15/15 12:57	10/16/15 09:12	1
Manganese	7.0		4.0	1.0	ug/L		10/15/15 12:57	10/16/15 09:12	1
Potassium	37000		1000	190	ug/L		10/15/15 12:57	10/16/15 09:12	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.3	I	10	2.5	ug/L		10/15/15 13:19	10/16/15 09:29	1
Iron	61	I	200	50	ug/L		10/15/15 13:19	10/16/15 09:29	1
Magnesium	96000		80	20	ug/L		10/15/15 13:19	10/16/15 09:29	1
Manganese	1.0	U	4.0	1.0	ug/L		10/15/15 13:19	10/16/15 09:29	1
Potassium	37000		1000	190	ug/L		10/15/15 13:19	10/16/15 09:29	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.26		0.050	0.020	mg/L			08/31/15 14:10	1
Total Kjeldahl Nitrogen	0.83		0.50	0.26	mg/L		09/01/15 10:06	09/02/15 14:56	1
Nitrate Nitrite as N	0.17		0.050	0.018	mg/L			09/02/15 11:04	1
Nitrite as N	0.0053	I	0.010	0.0050	mg/L			08/13/15 15:33	1
Phosphorus	0.036		0.010	0.0030	mg/L		08/17/15 13:14	08/18/15 12:24	1
Nitrate as N	0.16		0.020	0.010	mg/L			08/31/15 08:40	1
Nitrate Nitrite as N	0.17		0.020	0.010	mg/L			08/31/15 08:40	1
Chloride	1700		240	72	mg/L			09/02/15 15:38	120
Sulfate	230		50	14	mg/L			09/02/15 16:56	10
Ferrous Iron	260	Q	50	20	ug/L			08/14/15 18:21	1
Nitrogen, Total	1.0		0.50	0.26	mg/L			09/03/15 08:21	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.019		0.010	0.0050	mg/L			08/14/15 12:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 10 PW (08/12/2015)

Lab Sample ID: 660-68566-2

Date Collected: 08/12/15 15:00

Matrix: Water

Date Received: 08/13/15 06:45

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.6	I	10	2.5	ug/L		10/15/15 12:57	10/16/15 09:16	1
Iron	87	I	200	50	ug/L		10/15/15 12:57	10/16/15 09:16	1
Magnesium	150000		80	20	ug/L		10/15/15 12:57	10/16/15 09:16	1
Manganese	5.2		4.0	1.0	ug/L		10/15/15 12:57	10/16/15 09:16	1
Potassium	69000		1000	190	ug/L		10/15/15 12:57	10/16/15 09:16	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.4	I	10	2.5	ug/L		10/15/15 13:19	10/16/15 09:33	1
Iron	50	U	200	50	ug/L		10/15/15 13:19	10/16/15 09:33	1
Magnesium	160000		80	20	ug/L		10/15/15 13:19	10/16/15 09:33	1
Manganese	2.0	U	8.0	2.0	ug/L		10/15/15 13:19	10/16/15 11:54	2
Potassium	71000		1000	190	ug/L		10/15/15 13:19	10/16/15 09:33	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.95		0.050	0.020	mg/L			08/31/15 14:09	1
Total Kjeldahl Nitrogen	1.6		0.50	0.26	mg/L		09/01/15 10:06	09/02/15 14:57	1
Nitrate Nitrite as N	0.025	I	0.050	0.018	mg/L			09/02/15 11:05	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			08/13/15 15:33	1
Phosphorus	0.091		0.010	0.0030	mg/L		08/17/15 13:14	08/18/15 12:28	1
Nitrate as N	0.025		0.020	0.010	mg/L			08/31/15 08:40	1
Nitrate Nitrite as N	0.025		0.020	0.010	mg/L			08/31/15 08:40	1
Chloride	3200		240	72	mg/L			09/02/15 15:38	120
Sulfate	340		50	14	mg/L			09/02/15 15:58	10
Ferrous Iron	150	Q	50	20	ug/L			08/14/15 18:22	1
Nitrogen, Total	1.6		0.50	0.26	mg/L			09/03/15 08:21	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.070		0.010	0.0050	mg/L			08/14/15 12:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 10 SED (08/12/2015)

Lab Sample ID: 660-68566-3

Date Collected: 08/12/15 16:00

Matrix: Solid

Date Received: 08/13/15 06:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.81	I	0.97	0.19	mg/Kg		10/16/15 11:01	10/17/15 10:21	1
Iron	3600	J3	9.7	4.8	mg/Kg		10/16/15 11:01	10/17/15 10:21	1
Magnesium	890		48	2.9	mg/Kg		10/16/15 11:01	10/17/15 10:21	1
Manganese	16		0.97	0.097	mg/Kg		10/16/15 11:01	10/17/15 10:21	1
Potassium	160		97	9.7	mg/Kg		10/16/15 11:01	10/17/15 10:21	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	230	J3	13	6.5	mg/Kg		09/01/15 10:17	09/02/15 15:40	1
Phosphorus, Total	110	J3	2.5	0.75	mg/Kg		09/01/15 10:16	09/02/15 11:06	1
Nitrogen, Total	0.023		0.00025	0.00013	Percent			09/03/15 08:21	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.93	I J3	0.99	0.32	mg/Kg			09/01/15 14:42	1
Nitrate Nitrite as N	0.36	U	0.99	0.36	mg/Kg			08/17/15 14:33	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			08/29/15 10:40	1
Orthophosphate	2.6		1.0	0.30	mg/Kg			08/14/15 12:01	1
Sulfate	200		99	28	mg/Kg			09/02/15 16:23	1
Chloride	1100		79	24	mg/Kg			09/02/15 18:39	2
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			08/17/15 14:33	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW 10 SW (08/13/2015)

Lab Sample ID: 660-68601-1

Date Collected: 08/13/15 11:30

Matrix: Water

Date Received: 08/14/15 06:18

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/15/15 12:57	10/16/15 09:19	1
Iron	170	I	200	50	ug/L		10/15/15 12:57	10/16/15 09:19	1
Magnesium	6700		80	20	ug/L		10/15/15 12:57	10/16/15 09:19	1
Manganese	1.6	I	4.0	1.0	ug/L		10/15/15 12:57	10/16/15 09:19	1
Potassium	1100		1000	190	ug/L		10/15/15 12:57	10/16/15 09:19	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	5.0	U	20	5.0	ug/L		10/15/15 13:25	10/16/15 11:58	2
Iron	100	U	400	100	ug/L		10/15/15 13:25	10/16/15 11:58	2
Magnesium	14000		160	40	ug/L		10/15/15 13:25	10/16/15 11:58	2
Manganese	2.0	U	8.0	2.0	ug/L		10/15/15 13:25	10/16/15 11:58	2
Potassium	1800	I	2000	380	ug/L		10/15/15 13:25	10/16/15 11:58	2

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.12		0.050	0.020	mg/L			08/31/15 14:11	1
Total Kjeldahl Nitrogen	0.44	I	0.50	0.26	mg/L		09/01/15 10:06	09/02/15 15:00	1
Nitrate Nitrite as N	0.72		0.050	0.018	mg/L			09/02/15 11:06	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			08/14/15 11:53	1
Phosphorus	0.010		0.010	0.0030	mg/L		08/20/15 09:09	08/21/15 09:12	1
Nitrate as N	0.72		0.020	0.010	mg/L			08/31/15 08:40	1
Nitrate Nitrite as N	0.72		0.020	0.010	mg/L			08/31/15 08:40	1
Chloride	20		2.0	0.60	mg/L			09/02/15 15:09	1
Sulfate	13		5.0	1.4	mg/L			09/02/15 15:15	1
Ferrous Iron	180	Q	50	20	ug/L			08/17/15 16:16	1
Nitrogen, Total	1.2		0.50	0.26	mg/L			09/03/15 08:21	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0050	U	0.010	0.0050	mg/L			08/14/15 12:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW 10 PW (08/13/2015)

Lab Sample ID: 660-68601-2

Date Collected: 08/13/15 11:00

Matrix: Water

Date Received: 08/14/15 06:18

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.4	I	10	2.5	ug/L		10/15/15 12:57	10/16/15 09:23	1
Iron	50	U	200	50	ug/L		10/15/15 12:57	10/16/15 09:23	1
Magnesium	150000		80	20	ug/L		10/15/15 12:57	10/16/15 09:23	1
Manganese	40		4.0	1.0	ug/L		10/15/15 12:57	10/16/15 09:23	1
Potassium	59000		1000	190	ug/L		10/15/15 12:57	10/16/15 09:23	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.4	I	10	2.5	ug/L		10/15/15 13:25	10/16/15 09:50	1
Iron	50	U	200	50	ug/L		10/15/15 13:25	10/16/15 09:50	1
Magnesium	150000		80	20	ug/L		10/15/15 13:25	10/16/15 09:50	1
Manganese	41		4.0	1.0	ug/L		10/15/15 13:25	10/16/15 09:50	1
Potassium	59000		1000	190	ug/L		10/15/15 13:25	10/16/15 09:50	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.78		0.050	0.020	mg/L			08/31/15 14:12	1
Total Kjeldahl Nitrogen	1.1		0.50	0.26	mg/L		09/01/15 10:06	09/02/15 15:01	1
Nitrate Nitrite as N	0.018	U	0.050	0.018	mg/L			09/02/15 11:07	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			08/14/15 11:53	1
Phosphorus	0.081		0.010	0.0030	mg/L		08/20/15 09:09	08/21/15 09:33	1
Nitrate as N	0.010	U	0.020	0.010	mg/L			08/31/15 08:40	1
Nitrate Nitrite as N	0.010	U	0.020	0.010	mg/L			08/31/15 08:40	1
Chloride	3300		200	60	mg/L			09/02/15 17:36	100
Sulfate	380		100	28	mg/L			09/02/15 16:56	20
Ferrous Iron	130	Q	50	20	ug/L			08/17/15 16:16	1
Nitrogen, Total	1.1		0.50	0.26	mg/L			09/03/15 08:21	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.082		0.010	0.0050	mg/L			08/14/15 12:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW 10 SED (08/13/2015)

Lab Sample ID: 660-68601-3

Date Collected: 08/13/15 09:55

Matrix: Solid

Date Received: 08/14/15 06:18

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.25	I	0.95	0.19	mg/Kg		10/16/15 11:01	10/17/15 10:34	1
Iron	190		9.5	4.8	mg/Kg		10/16/15 11:01	10/17/15 10:34	1
Magnesium	82		48	2.9	mg/Kg		10/16/15 11:01	10/17/15 10:34	1
Manganese	1.2		0.95	0.095	mg/Kg		10/16/15 11:01	10/17/15 10:34	1
Potassium	13	I	95	9.5	mg/Kg		10/16/15 11:01	10/17/15 10:34	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	100		11	5.6	mg/Kg		09/01/15 10:17	09/02/15 15:43	1
Phosphorus, Total	19		2.1	0.64	mg/Kg		09/01/15 10:16	09/02/15 11:09	1
Nitrogen, Total	0.010		0.00025	0.00013	Percent			09/03/15 08:21	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.31	U	0.97	0.31	mg/Kg			09/01/15 14:46	1
Nitrate Nitrite as N	0.36	U	0.99	0.36	mg/Kg			08/17/15 14:34	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			08/29/15 10:40	1
Orthophosphate	0.30	U J3	1.0	0.30	mg/Kg			08/15/15 12:59	1
Sulfate	51	I	99	28	mg/Kg			09/02/15 16:23	1
Chloride	310		40	12	mg/Kg			09/02/15 16:17	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			08/17/15 14:34	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 0.5 SED (10/14/2015)

Lab Sample ID: 660-69823-1

Date Collected: 10/14/15 10:00

Matrix: Solid

Date Received: 10/15/15 08:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.4		0.96	0.19	mg/Kg		10/21/15 06:43	10/22/15 19:01	1
Iron	1400		9.6	4.8	mg/Kg		10/21/15 06:43	10/22/15 19:01	1
Magnesium	190		48	2.9	mg/Kg		10/21/15 06:43	10/22/15 19:01	1
Manganese	1.6	V	0.96	0.096	mg/Kg		10/21/15 06:43	10/22/15 19:01	1
Potassium	24	I	96	9.6	mg/Kg		10/21/15 06:43	10/22/15 19:01	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	330		12	6.4	mg/Kg		10/16/15 10:18	10/20/15 15:27	1
Phosphorus, Total	78		2.5	0.74	mg/Kg		10/16/15 16:30	10/20/15 10:59	1
Nitrogen, Total	0.033		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	1.0		0.98	0.31	mg/Kg			10/22/15 16:55	1
Nitrate Nitrite as N	0.35	U J3	0.98	0.35	mg/Kg			10/23/15 18:42	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/16/15 15:32	1
Orthophosphate	0.62	I	1.0	0.30	mg/Kg			10/16/15 15:50	1
Sulfate	370	J3	94	26	mg/Kg			11/03/15 12:39	1
Chloride	440		38	11	mg/Kg			11/03/15 12:48	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 18:42	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 0.5 SW (10/14/2015)

Lab Sample ID: 660-69823-2

Date Collected: 10/14/15 10:15

Matrix: Water

Date Received: 10/15/15 08:30

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/27/15 10:51	10/28/15 16:10	1
Iron	50	U	200	50	ug/L		10/27/15 10:51	10/28/15 16:10	1
Magnesium	22000	J3	80	20	ug/L		10/27/15 10:51	10/28/15 16:10	1
Manganese	1.0	U	4.0	1.0	ug/L		10/27/15 10:51	10/28/15 16:10	1
Potassium	4700		1000	190	ug/L		10/27/15 10:51	10/28/15 16:10	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/27/15 10:57	10/28/15 17:01	1
Iron	50	U	200	50	ug/L		10/27/15 10:57	10/28/15 17:01	1
Magnesium	24000		80	20	ug/L		10/27/15 10:57	10/28/15 17:01	1
Potassium	5100		1000	190	ug/L		10/27/15 10:57	10/28/15 17:01	1
Manganese	1.0	U	4.0	1.0	ug/L		10/27/15 10:57	10/28/15 17:01	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/27/15 16:41	1
Total Kjeldahl Nitrogen	0.26	U J3	0.50	0.26	mg/L		10/19/15 11:22	10/20/15 16:14	1
Nitrate Nitrite as N	0.44		0.050	0.018	mg/L			10/29/15 10:42	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/15/15 16:42	1
Phosphorus, Total	0.032	U	0.10	0.032	mg/L		10/19/15 11:24	10/20/15 11:50	1
Nitrate as N	0.44		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.44		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	71		20	6.0	mg/L			10/24/15 09:42	10
Sulfate	22		10	2.8	mg/L			10/31/15 09:47	2
Ferrous Iron	20	U Q	50	20	ug/L			10/20/15 09:51	1
Nitrogen, Total	0.44	I	0.50	0.26	mg/L			11/04/15 10:13	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.014		0.010	0.0050	mg/L			10/15/15 14:50	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 0.5 PW (10/14/2015)

Lab Sample ID: 660-69823-3

Date Collected: 10/14/15 10:15

Matrix: Water

Date Received: 10/15/15 08:30

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/27/15 10:51	10/28/15 16:23	1
Iron	50	U	200	50	ug/L		10/27/15 10:51	10/28/15 16:23	1
Magnesium	75000		80	20	ug/L		10/27/15 10:51	10/28/15 16:23	1
Manganese	1.0	U	4.0	1.0	ug/L		10/27/15 10:51	10/28/15 16:23	1
Potassium	28000		1000	190	ug/L		10/27/15 10:51	10/28/15 16:23	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/27/15 10:57	10/28/15 17:04	1
Iron	50	U	200	50	ug/L		10/27/15 10:57	10/28/15 17:04	1
Magnesium	74000		80	20	ug/L		10/27/15 10:57	10/28/15 17:04	1
Potassium	27000		1000	190	ug/L		10/27/15 10:57	10/28/15 17:04	1
Manganese	1.0	U	4.0	1.0	ug/L		10/27/15 10:57	10/28/15 17:04	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.052		0.050	0.020	mg/L			10/27/15 16:43	1
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/19/15 11:22	10/20/15 16:18	1
Nitrate Nitrite as N	0.20		0.050	0.018	mg/L			10/29/15 10:43	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/15/15 16:43	1
Phosphorus, Total	0.032	U	0.10	0.032	mg/L		10/19/15 11:24	10/20/15 11:53	1
Nitrate as N	0.20		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.20		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	1300	J3	100	30	mg/L			10/24/15 11:55	50
Sulfate	160		75	21	mg/L			10/31/15 12:05	15
Ferrous Iron	20	U Q	50	20	ug/L			10/20/15 09:51	1
Nitrogen, Total	0.26	U	0.50	0.26	mg/L			11/04/15 10:13	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.038		0.010	0.0050	mg/L			10/15/15 14:50	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 1.0 SED (10/14/2015)

Lab Sample ID: 660-69823-4

Date Collected: 10/14/15 11:51

Matrix: Solid

Date Received: 10/15/15 08:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.8		0.95	0.19	mg/Kg		10/21/15 06:43	10/22/15 19:04	1
Iron	1600		9.5	4.8	mg/Kg		10/21/15 06:43	10/22/15 19:04	1
Magnesium	200		48	2.9	mg/Kg		10/21/15 06:43	10/22/15 19:04	1
Manganese	2.3	V	0.95	0.095	mg/Kg		10/21/15 06:43	10/22/15 19:04	1
Potassium	29	I	95	9.5	mg/Kg		10/21/15 06:43	10/22/15 19:04	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	330		23	12	mg/Kg		10/16/15 16:28	10/20/15 15:28	1
Phosphorus, Total	64		4.5	1.4	mg/Kg		10/16/15 16:30	10/20/15 11:00	1
Nitrogen, Total	0.033		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	2.1		0.98	0.31	mg/Kg			10/22/15 16:59	1
Nitrate Nitrite as N	0.35	U	0.98	0.35	mg/Kg			10/23/15 18:45	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/16/15 15:32	1
Orthophosphate	2.0		1.0	0.30	mg/Kg			10/16/15 15:50	1
Sulfate	110		99	28	mg/Kg			11/03/15 12:39	1
Chloride	400		40	12	mg/Kg			11/03/15 12:48	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 18:45	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 1.5 SED (10/14/2015)

Lab Sample ID: 660-69823-5

Date Collected: 10/14/15 12:01

Matrix: Solid

Date Received: 10/15/15 08:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.75	I	0.95	0.19	mg/Kg		10/21/15 06:43	10/22/15 19:08	1
Iron	860		9.5	4.8	mg/Kg		10/21/15 06:43	10/22/15 19:08	1
Magnesium	95		48	2.9	mg/Kg		10/21/15 06:43	10/22/15 19:08	1
Manganese	1.4	V	0.95	0.095	mg/Kg		10/21/15 06:43	10/22/15 19:08	1
Potassium	21	I	95	9.5	mg/Kg		10/21/15 06:43	10/22/15 19:08	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	100		21	11	mg/Kg		10/16/15 16:28	10/20/15 15:29	1
Phosphorus, Total	30		4.2	1.3	mg/Kg		10/16/15 16:30	10/20/15 11:02	1
Nitrogen, Total	0.010		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	2.9		0.99	0.32	mg/Kg			10/22/15 17:02	1
Nitrate Nitrite as N	0.36	U	0.99	0.36	mg/Kg			10/23/15 18:46	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/16/15 15:32	1
Orthophosphate	0.55	I	1.0	0.30	mg/Kg			10/16/15 15:50	1
Sulfate	250		89	25	mg/Kg			11/03/15 12:39	1
Chloride	260		36	11	mg/Kg			11/03/15 12:48	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 18:46	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 1.5 SW (10/14/2015)

Lab Sample ID: 660-69823-6

Date Collected: 10/14/15 12:48

Matrix: Water

Date Received: 10/15/15 08:30

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/27/15 10:51	10/28/15 16:26	1
Iron	100	I	200	50	ug/L		10/27/15 10:51	10/28/15 16:26	1
Magnesium	47000		80	20	ug/L		10/27/15 10:51	10/28/15 16:26	1
Manganese	1.8	I	4.0	1.0	ug/L		10/27/15 10:51	10/28/15 16:26	1
Potassium	15000		1000	190	ug/L		10/27/15 10:51	10/28/15 16:26	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/27/15 10:57	10/28/15 17:08	1
Iron	50	U	200	50	ug/L		10/27/15 10:57	10/28/15 17:08	1
Magnesium	48000		80	20	ug/L		10/27/15 10:57	10/28/15 17:08	1
Potassium	15000		1000	190	ug/L		10/27/15 10:57	10/28/15 17:08	1
Manganese	1.0	U	4.0	1.0	ug/L		10/27/15 10:57	10/28/15 17:08	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/27/15 16:44	1
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/19/15 11:22	10/20/15 16:19	1
Nitrate Nitrite as N	0.48		0.050	0.018	mg/L			10/29/15 10:49	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/15/15 16:45	1
Phosphorus, Total	0.077	I V	0.10	0.032	mg/L		10/19/15 11:24	10/20/15 11:55	1
Nitrate as N	0.48		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.48		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	670		100	30	mg/L			10/24/15 11:45	50
Sulfate	77		25	7.0	mg/L			10/31/15 09:47	5
Ferrous Iron	20	U Q	50	20	ug/L			10/20/15 09:51	1
Nitrogen, Total	0.48	I	0.50	0.26	mg/L			11/04/15 10:13	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.014		0.010	0.0050	mg/L			10/15/15 14:50	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 1.5 PW (10/14/2015)

Lab Sample ID: 660-69823-7

Date Collected: 10/14/15 12:48

Matrix: Water

Date Received: 10/15/15 08:30

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/27/15 10:51	10/28/15 16:30	1
Iron	110	I	200	50	ug/L		10/27/15 10:51	10/28/15 16:30	1
Magnesium	43000		80	20	ug/L		10/27/15 10:51	10/28/15 16:30	1
Manganese	1.0	U	4.0	1.0	ug/L		10/27/15 10:51	10/28/15 16:30	1
Potassium	13000		1000	190	ug/L		10/27/15 10:51	10/28/15 16:30	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/27/15 10:57	10/28/15 17:11	1
Iron	50	U	200	50	ug/L		10/27/15 10:57	10/28/15 17:11	1
Magnesium	44000		80	20	ug/L		10/27/15 10:57	10/28/15 17:11	1
Potassium	13000		1000	190	ug/L		10/27/15 10:57	10/28/15 17:11	1
Manganese	1.0	U	4.0	1.0	ug/L		10/27/15 10:57	10/28/15 17:11	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/27/15 16:45	1
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/19/15 11:22	10/20/15 16:20	1
Nitrate Nitrite as N	0.71		0.050	0.018	mg/L			10/29/15 10:50	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/15/15 16:46	1
Phosphorus, Total	0.12	V	0.10	0.032	mg/L		10/19/15 11:24	10/20/15 11:56	1
Nitrate as N	0.71		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.71		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	350		100	30	mg/L			10/24/15 11:45	50
Sulfate	68		50	14	mg/L			10/31/15 11:11	10
Ferrous Iron	20	U Q	50	20	ug/L			10/20/15 09:51	1
Nitrogen, Total	0.71		0.50	0.26	mg/L			11/04/15 10:13	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.019		0.010	0.0050	mg/L			10/15/15 14:50	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 2.0 SED (10/14/2015)

Lab Sample ID: 660-69823-8

Date Collected: 10/14/15 12:50

Matrix: Solid

Date Received: 10/15/15 08:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.89	I	0.95	0.19	mg/Kg		10/21/15 06:43	10/22/15 19:11	1
Iron	1000		9.5	4.8	mg/Kg		10/21/15 06:43	10/22/15 19:11	1
Magnesium	130		48	2.9	mg/Kg		10/21/15 06:43	10/22/15 19:11	1
Manganese	1.9	V	0.95	0.095	mg/Kg		10/21/15 06:43	10/22/15 19:11	1
Potassium	32	I	95	9.5	mg/Kg		10/21/15 06:43	10/22/15 19:11	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	280		18	9.3	mg/Kg		10/16/15 16:28	10/20/15 15:30	1
Phosphorus, Total	52		3.6	1.1	mg/Kg		10/16/15 16:30	10/20/15 11:03	1
Nitrogen, Total	0.028		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.91	I	0.98	0.32	mg/Kg			10/22/15 17:03	1
Nitrate Nitrite as N	0.35	U	0.98	0.35	mg/Kg			10/23/15 18:47	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/16/15 15:32	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/16/15 15:50	1
Sulfate	280		97	27	mg/Kg			11/03/15 12:39	1
Chloride	350		39	12	mg/Kg			11/03/15 12:48	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 18:47	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 2.5 SED (10/14/2015)

Lab Sample ID: 660-69823-9

Date Collected: 10/14/15 14:30

Matrix: Solid

Date Received: 10/15/15 08:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.80	I	0.97	0.19	mg/Kg		10/21/15 06:43	10/22/15 19:15	1
Iron	980		9.7	4.8	mg/Kg		10/21/15 06:43	10/22/15 19:15	1
Magnesium	200		48	2.9	mg/Kg		10/21/15 06:43	10/22/15 19:15	1
Manganese	0.76	I V	0.97	0.097	mg/Kg		10/21/15 06:43	10/22/15 19:15	1
Potassium	30	I	97	9.7	mg/Kg		10/21/15 06:43	10/22/15 19:15	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	310		24	12	mg/Kg		10/16/15 16:28	10/20/15 15:31	1
Phosphorus, Total	300		4.7	1.4	mg/Kg		10/16/15 16:30	10/20/15 11:07	1
Nitrogen, Total	0.031		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	0.99	0.32	mg/Kg			10/22/15 17:04	1
Nitrate Nitrite as N	0.36	U	0.99	0.36	mg/Kg			10/23/15 18:48	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/16/15 15:32	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/16/15 15:50	1
Sulfate	410		95	27	mg/Kg			11/03/15 12:39	1
Chloride	860		38	11	mg/Kg			11/03/15 12:55	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 18:48	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 2.5 SW (10/14/2015)

Lab Sample ID: 660-69823-10

Date Collected: 10/14/15 14:45

Matrix: Water

Date Received: 10/15/15 08:30

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/27/15 10:51	10/28/15 16:40	1
Iron	82	I	200	50	ug/L		10/27/15 10:51	10/28/15 16:40	1
Magnesium	46000		80	20	ug/L		10/27/15 10:51	10/28/15 16:40	1
Manganese	1.3	I	4.0	1.0	ug/L		10/27/15 10:51	10/28/15 16:40	1
Potassium	14000		1000	190	ug/L		10/27/15 10:51	10/28/15 16:40	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/27/15 10:57	10/28/15 17:21	1
Iron	50	U	200	50	ug/L		10/27/15 10:57	10/28/15 17:21	1
Magnesium	45000		80	20	ug/L		10/27/15 10:57	10/28/15 17:21	1
Potassium	14000		1000	190	ug/L		10/27/15 10:57	10/28/15 17:21	1
Manganese	1.0	U	4.0	1.0	ug/L		10/27/15 10:57	10/28/15 17:21	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/27/15 18:40	1
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/19/15 11:22	10/20/15 16:21	1
Nitrate Nitrite as N	0.43		0.050	0.018	mg/L			10/29/15 10:51	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/15/15 16:50	1
Phosphorus, Total	0.035	I V	0.10	0.032	mg/L		10/19/15 11:24	10/20/15 11:57	1
Nitrate as N	0.43		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.43		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	370		100	30	mg/L			10/24/15 11:45	50
Sulfate	88		50	14	mg/L			10/31/15 12:01	10
Ferrous Iron	20	U Q	50	20	ug/L			10/20/15 09:51	1
Nitrogen, Total	0.43	I	0.50	0.26	mg/L			11/04/15 10:13	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.011		0.010	0.0050	mg/L			10/15/15 14:50	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 2.5 PW (10/14/2015)

Lab Sample ID: 660-69823-11

Date Collected: 10/14/15 14:45

Matrix: Water

Date Received: 10/15/15 08:30

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.8	I	10	2.5	ug/L		10/27/15 10:51	10/28/15 16:44	1
Iron	50	U	200	50	ug/L		10/27/15 10:51	10/28/15 16:44	1
Magnesium	130000		80	20	ug/L		10/27/15 10:51	10/28/15 16:44	1
Manganese	3.0	U	12	3.0	ug/L		10/27/15 10:51	10/29/15 08:30	3
Potassium	56000		1000	190	ug/L		10/27/15 10:51	10/28/15 16:44	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.7	I	10	2.5	ug/L		10/27/15 10:57	10/28/15 17:25	1
Iron	50	U	200	50	ug/L		10/27/15 10:57	10/28/15 17:25	1
Magnesium	130000		80	20	ug/L		10/27/15 10:57	10/28/15 17:25	1
Potassium	56000		1000	190	ug/L		10/27/15 10:57	10/28/15 17:25	1
Manganese	1.0	U	4.0	1.0	ug/L		10/27/15 10:57	10/28/15 17:25	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/27/15 18:42	1
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/19/15 11:22	10/20/15 16:22	1
Nitrate Nitrite as N	0.032	I	0.050	0.018	mg/L			10/29/15 10:52	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/15/15 16:54	1
Phosphorus, Total	0.048	I V	0.10	0.032	mg/L		10/19/15 11:24	10/20/15 11:58	1
Nitrate as N	0.032		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.032		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	2500		200	60	mg/L			10/24/15 11:58	100
Sulfate	310		130	35	mg/L			10/31/15 11:11	25
Ferrous Iron	20	U Q	50	20	ug/L			10/20/15 09:51	1
Nitrogen, Total	0.26	U	0.50	0.26	mg/L			11/04/15 10:13	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.016		0.010	0.0050	mg/L			10/15/15 14:50	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 3.5 SW (10/15/2015)

Lab Sample ID: 660-69852-1

Date Collected: 10/15/15 10:15

Matrix: Water

Date Received: 10/16/15 06:10

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/28/15 09:13	10/29/15 10:36	1
Iron	85	I	200	50	ug/L		10/28/15 09:13	10/29/15 10:36	1
Magnesium	48000		80	20	ug/L		10/28/15 09:13	10/29/15 10:36	1
Manganese	1.8	I	4.0	1.0	ug/L		10/28/15 09:13	10/29/15 10:36	1
Potassium	15000		1000	190	ug/L		10/28/15 09:13	10/29/15 10:36	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/28/15 09:16	10/29/15 11:03	1
Iron	50	U	200	50	ug/L		10/28/15 09:16	10/29/15 11:03	1
Magnesium	52000		80	20	ug/L		10/28/15 09:16	10/29/15 11:03	1
Manganese	1.0	U	4.0	1.0	ug/L		10/28/15 09:16	10/29/15 11:03	1
Potassium	16000		1000	190	ug/L		10/28/15 09:16	10/29/15 11:03	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/27/15 18:45	1
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/19/15 11:22	10/20/15 16:39	1
Nitrate Nitrite as N	0.49		0.050	0.018	mg/L			10/29/15 10:53	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/16/15 15:05	1
Phosphorus, Total	0.032	U	0.10	0.032	mg/L		10/19/15 11:24	10/20/15 12:17	1
Nitrate as N	0.49		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.49		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	390		100	30	mg/L			10/24/15 11:45	50
Sulfate	94		50	14	mg/L			10/31/15 11:15	10
Ferrous Iron	82	Q	50	20	ug/L			10/20/15 09:51	1
Nitrogen, Total	0.49	I	0.50	0.26	mg/L			11/04/15 10:13	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0090	I	0.010	0.0050	mg/L			10/16/15 11:22	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 3.5 PW (10/15/2015)

Lab Sample ID: 660-69852-2

Date Collected: 10/15/15 10:15

Matrix: Water

Date Received: 10/16/15 06:10

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.3	I	10	2.5	ug/L		10/28/15 09:13	10/29/15 10:52	1
Iron	50	U	200	50	ug/L		10/28/15 09:13	10/29/15 10:52	1
Magnesium	150000		80	20	ug/L		10/28/15 09:13	10/29/15 10:52	1
Manganese	1.7	I	4.0	1.0	ug/L		10/28/15 09:13	10/29/15 10:52	1
Potassium	59000		1000	190	ug/L		10/28/15 09:13	10/29/15 10:52	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.9	I	10	2.5	ug/L		10/28/15 09:16	10/29/15 11:06	1
Iron	50	U	200	50	ug/L		10/28/15 09:16	10/29/15 11:06	1
Magnesium	150000		80	20	ug/L		10/28/15 09:16	10/29/15 11:06	1
Manganese	1.0	U	4.0	1.0	ug/L		10/28/15 09:16	10/29/15 11:06	1
Potassium	61000		1000	190	ug/L		10/28/15 09:16	10/29/15 11:06	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.87		0.050	0.020	mg/L			10/27/15 18:46	1
Total Kjeldahl Nitrogen	0.91		0.50	0.26	mg/L		10/19/15 11:22	10/20/15 16:40	1
Nitrate Nitrite as N	0.018	U	0.050	0.018	mg/L			10/29/15 10:56	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/16/15 15:09	1
Phosphorus, Total	0.18	V	0.10	0.032	mg/L		10/19/15 11:24	10/20/15 12:18	1
Nitrate as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	2900		200	60	mg/L			10/24/15 11:58	100
Sulfate	240		130	35	mg/L			10/31/15 11:37	25
Ferrous Iron	71	Q	50	20	ug/L			10/20/15 09:51	1
Nitrogen, Total	0.91		0.50	0.26	mg/L			11/04/15 10:13	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.15		0.010	0.0050	mg/L			10/16/15 11:22	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 4.5 SW (10/15/2015)

Lab Sample ID: 660-69852-3

Date Collected: 10/15/15 12:05

Matrix: Water

Date Received: 10/16/15 06:10

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.6	I	10	2.5	ug/L		10/28/15 09:13	10/29/15 10:56	1
Iron	150	I	200	50	ug/L		10/28/15 09:13	10/29/15 10:56	1
Magnesium	66000		80	20	ug/L		10/28/15 09:13	10/29/15 10:56	1
Manganese	1.5	I	4.0	1.0	ug/L		10/28/15 09:13	10/29/15 10:56	1
Potassium	22000		1000	190	ug/L		10/28/15 09:13	10/29/15 10:56	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.6	I	10	2.5	ug/L		10/28/15 09:16	10/29/15 11:10	1
Iron	50	U	200	50	ug/L		10/28/15 09:16	10/29/15 11:10	1
Magnesium	67000		80	20	ug/L		10/28/15 09:16	10/29/15 11:10	1
Manganese	1.0	U	4.0	1.0	ug/L		10/28/15 09:16	10/29/15 11:10	1
Potassium	23000		1000	190	ug/L		10/28/15 09:16	10/29/15 11:10	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/27/15 18:47	1
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/19/15 11:22	10/20/15 16:41	1
Nitrate Nitrite as N	0.40		0.050	0.018	mg/L			10/29/15 10:57	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/16/15 15:10	1
Phosphorus, Total	0.049	I V	0.10	0.032	mg/L		10/19/15 11:24	10/20/15 12:19	1
Nitrate as N	0.40		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.40		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	380		100	30	mg/L			10/24/15 11:45	50
Sulfate	110		50	14	mg/L			10/31/15 11:37	10
Ferrous Iron	120	Q	50	20	ug/L			10/20/15 09:51	1
Nitrogen, Total	0.40	I	0.50	0.26	mg/L			11/04/15 10:13	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0080	I	0.010	0.0050	mg/L			10/16/15 11:22	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 4.5 PW (10/15/2015)

Lab Sample ID: 660-69852-4

Date Collected: 10/15/15 12:05

Matrix: Water

Date Received: 10/16/15 06:10

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	4.0	I	10	2.5	ug/L		10/28/15 13:49	11/04/15 19:33	1
Iron	57	I	200	50	ug/L		10/28/15 13:49	11/04/15 19:33	1
Magnesium	110000		80	20	ug/L		10/28/15 13:49	11/04/15 19:33	1
Manganese	2.6	I	4.0	1.0	ug/L		10/28/15 13:49	11/04/15 19:33	1
Potassium	41000		1000	190	ug/L		10/28/15 13:49	11/04/15 19:33	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.1	I	10	2.5	ug/L		10/28/15 13:49	11/04/15 20:11	1
Iron	50	U	200	50	ug/L		10/28/15 13:49	11/04/15 20:11	1
Magnesium	110000		80	20	ug/L		10/28/15 13:49	11/04/15 20:11	1
Manganese	1.0	U	4.0	1.0	ug/L		10/28/15 13:49	11/04/15 20:11	1
Potassium	40000		1000	190	ug/L		10/28/15 13:49	11/04/15 20:11	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.22		0.050	0.020	mg/L			10/27/15 18:48	1
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/19/15 11:22	10/20/15 16:42	1
Nitrate Nitrite as N	0.018	U	0.050	0.018	mg/L			10/29/15 10:58	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/16/15 15:17	1
Phosphorus, Total	0.085	I V	0.10	0.032	mg/L		10/19/15 11:24	10/20/15 12:20	1
Nitrate as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	2200		200	60	mg/L			10/24/15 11:58	100
Sulfate	200		100	28	mg/L			10/31/15 12:54	20
Ferrous Iron	99	Q	50	20	ug/L			10/20/15 09:51	1
Nitrogen, Total	0.26	U	0.50	0.26	mg/L			11/04/15 10:30	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.056		0.010	0.0050	mg/L			10/16/15 11:22	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 5.5 SW (10/15/2015)

Lab Sample ID: 660-69852-5

Date Collected: 10/15/15 15:20

Matrix: Water

Date Received: 10/16/15 06:10

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.1	I	10	2.5	ug/L		10/28/15 13:47	11/04/15 19:20	1
Iron	170	I	200	50	ug/L		10/28/15 13:47	11/04/15 19:20	1
Magnesium	62000	J3	80	20	ug/L		10/28/15 13:47	11/04/15 19:20	1
Manganese	1.6	I	4.0	1.0	ug/L		10/28/15 13:47	11/04/15 19:20	1
Potassium	20000		1000	190	ug/L		10/28/15 13:47	11/04/15 19:20	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/28/15 13:49	11/04/15 20:14	1
Iron	50	U	200	50	ug/L		10/28/15 13:49	11/04/15 20:14	1
Magnesium	65000		80	20	ug/L		10/28/15 13:49	11/04/15 20:14	1
Manganese	1.0	U	4.0	1.0	ug/L		10/28/15 13:49	11/04/15 20:14	1
Potassium	21000		1000	190	ug/L		10/28/15 13:49	11/04/15 20:14	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/27/15 18:49	1
Total Kjeldahl Nitrogen	0.26	U J3	0.50	0.26	mg/L		10/20/15 16:49	10/22/15 14:17	1
Nitrate Nitrite as N	0.37		0.050	0.018	mg/L			10/29/15 11:04	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/16/15 15:18	1
Phosphorus, Total	0.032	U	0.10	0.032	mg/L		10/20/15 16:52	10/23/15 18:10	1
Nitrate as N	0.37		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.37		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	880		100	30	mg/L			10/24/15 11:45	50
Sulfate	120		50	14	mg/L			10/31/15 11:37	10
Ferrous Iron	110	Q	50	20	ug/L			10/21/15 16:31	1
Nitrogen, Total	0.37	I	0.50	0.26	mg/L			11/04/15 10:30	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0070	I	0.010	0.0050	mg/L			10/16/15 11:22	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 5.5 PW (10/15/2015)

Lab Sample ID: 660-69852-6

Date Collected: 10/15/15 15:20

Matrix: Water

Date Received: 10/16/15 06:10

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.0	I	10	2.5	ug/L		10/28/15 13:49	11/04/15 19:36	1
Iron	360		200	50	ug/L		10/28/15 13:49	11/04/15 19:36	1
Magnesium	67000		80	20	ug/L		10/28/15 13:49	11/04/15 19:36	1
Manganese	9.3		4.0	1.0	ug/L		10/28/15 13:49	11/04/15 19:36	1
Potassium	23000		1000	190	ug/L		10/28/15 13:49	11/04/15 19:36	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/28/15 13:49	11/04/15 20:17	1
Iron	50	U	200	50	ug/L		10/28/15 13:49	11/04/15 20:17	1
Magnesium	69000		80	20	ug/L		10/28/15 13:49	11/04/15 20:17	1
Manganese	5.0		4.0	1.0	ug/L		10/28/15 13:49	11/04/15 20:17	1
Potassium	23000		1000	190	ug/L		10/28/15 13:49	11/04/15 20:17	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.19		0.050	0.020	mg/L			10/27/15 18:50	1
Total Kjeldahl Nitrogen	0.31	I	0.50	0.26	mg/L		10/20/15 16:49	10/22/15 14:20	1
Nitrate Nitrite as N	0.034	I	0.050	0.018	mg/L			10/29/15 11:06	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/16/15 15:20	1
Phosphorus, Total	0.10		0.10	0.032	mg/L		10/20/15 16:52	10/23/15 18:14	1
Nitrate as N	0.034		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.034		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	1200	J3	100	30	mg/L			10/24/15 11:48	50
Sulfate	150		75	21	mg/L			10/31/15 12:05	15
Ferrous Iron	380	Q	50	20	ug/L			10/21/15 16:31	1
Nitrogen, Total	0.34	I	0.50	0.26	mg/L			11/04/15 10:30	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.057		0.010	0.0050	mg/L			10/16/15 11:22	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 3.0 SED (10/15/2015)

Lab Sample ID: 660-69852-7

Date Collected: 10/15/15 09:30

Matrix: Solid

Date Received: 10/16/15 06:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.75	I	0.94	0.19	mg/Kg		10/21/15 06:43	10/22/15 19:18	1
Iron	860		9.4	4.7	mg/Kg		10/21/15 06:43	10/22/15 19:18	1
Magnesium	190		47	2.8	mg/Kg		10/21/15 06:43	10/22/15 19:18	1
Manganese	0.98	V	0.94	0.094	mg/Kg		10/21/15 06:43	10/22/15 19:18	1
Potassium	34	I	94	9.4	mg/Kg		10/21/15 06:43	10/22/15 19:18	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	270		24	12	mg/Kg		10/19/15 11:26	10/20/15 15:34	1
Phosphorus, Total	37		4.7	1.4	mg/Kg		10/19/15 11:28	10/20/15 11:08	1
Nitrogen, Total	0.027		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.56	I	0.99	0.32	mg/Kg			10/22/15 17:05	1
Nitrate Nitrite as N	0.36	U	0.99	0.36	mg/Kg			10/23/15 18:49	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/17/15 12:34	1
Orthophosphate	0.30	U J3	1.0	0.30	mg/Kg			10/17/15 12:33	1
Sulfate	280		92	26	mg/Kg			11/03/15 12:39	1
Chloride	460		37	11	mg/Kg			11/03/15 12:55	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 18:49	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 3.5 SED (10/15/2015)

Lab Sample ID: 660-69852-8

Date Collected: 10/15/15 09:55

Matrix: Solid

Date Received: 10/16/15 06:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.4		0.91	0.18	mg/Kg		10/21/15 06:43	10/22/15 19:21	1
Iron	1000		9.1	4.6	mg/Kg		10/21/15 06:43	10/22/15 19:21	1
Magnesium	320		46	2.7	mg/Kg		10/21/15 06:43	10/22/15 19:21	1
Manganese	1.4	V	0.91	0.091	mg/Kg		10/21/15 06:43	10/22/15 19:21	1
Potassium	54	I	91	9.1	mg/Kg		10/21/15 06:43	10/22/15 19:21	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	600		14	7.1	mg/Kg		10/19/15 11:26	10/20/15 15:35	1
Phosphorus, Total	69		2.7	0.82	mg/Kg		10/19/15 11:28	10/20/15 11:09	1
Nitrogen, Total	0.060		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	2.9		0.98	0.31	mg/Kg			10/22/15 17:07	1
Nitrate Nitrite as N	0.35	U	0.98	0.35	mg/Kg			10/23/15 18:55	1
Nitrite as N	0.36	U J3	2.0	0.36	mg/Kg			10/17/15 12:34	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/17/15 12:33	1
Sulfate	570		91	25	mg/Kg			11/03/15 12:58	1
Chloride	1500		73	22	mg/Kg			11/03/15 15:14	2
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 18:55	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 4.0 SED (10/15/2015)

Lab Sample ID: 660-69852-9

Date Collected: 10/15/15 11:00

Matrix: Solid

Date Received: 10/16/15 06:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.3		0.92	0.18	mg/Kg		10/21/15 06:43	10/22/15 19:25	1
Iron	1200		9.2	4.6	mg/Kg		10/21/15 06:43	10/22/15 19:25	1
Magnesium	320		46	2.8	mg/Kg		10/21/15 06:43	10/22/15 19:25	1
Manganese	2.2	V	0.92	0.092	mg/Kg		10/21/15 06:43	10/22/15 19:25	1
Potassium	55	I	92	9.2	mg/Kg		10/21/15 06:43	10/22/15 19:25	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	800		16	8.6	mg/Kg		10/19/15 11:26	10/20/15 15:37	1
Phosphorus, Total	86		3.3	0.99	mg/Kg		10/19/15 11:28	10/20/15 11:10	1
Nitrogen, Total	0.080		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	1.3		0.99	0.32	mg/Kg			10/22/15 17:08	1
Nitrate Nitrite as N	0.36	U	0.99	0.36	mg/Kg			10/23/15 18:56	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/17/15 12:34	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/17/15 12:33	1
Sulfate	490		89	25	mg/Kg			11/03/15 12:58	1
Chloride	1300		72	21	mg/Kg			11/03/15 14:18	2
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 18:56	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 4.5 SED (10/15/2015)

Lab Sample ID: 660-69852-10

Date Collected: 10/15/15 11:40

Matrix: Solid

Date Received: 10/16/15 06:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.72	I	0.96	0.19	mg/Kg		10/23/15 11:40	10/27/15 21:03	1
Iron	510		9.6	4.8	mg/Kg		10/23/15 11:40	10/27/15 21:03	1
Magnesium	140		48	2.9	mg/Kg		10/23/15 11:40	10/27/15 21:03	1
Manganese	1.2		0.96	0.096	mg/Kg		10/23/15 11:40	10/27/15 21:03	1
Potassium	25	I	96	9.6	mg/Kg		10/23/15 11:40	10/27/15 21:03	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	410		13	6.6	mg/Kg		10/19/15 11:26	10/20/15 15:38	1
Phosphorus, Total	71		2.6	0.77	mg/Kg		10/19/15 11:28	10/20/15 11:12	1
Nitrogen, Total	0.041		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	2.5		0.99	0.32	mg/Kg			10/22/15 17:09	1
Nitrate Nitrite as N	0.36	U	0.99	0.36	mg/Kg			10/23/15 18:57	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/17/15 12:34	1
Orthophosphate	0.34	I	1.0	0.30	mg/Kg			10/17/15 12:33	1
Sulfate	200		93	26	mg/Kg			11/03/15 12:58	1
Chloride	420		37	11	mg/Kg			11/03/15 12:55	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 18:57	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 5.0 SED (10/15/2015)

Lab Sample ID: 660-69852-11

Date Collected: 10/15/15 14:30

Matrix: Solid

Date Received: 10/16/15 06:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.2		0.93	0.19	mg/Kg		10/23/15 11:40	10/27/15 21:06	1
Iron	750		9.3	4.6	mg/Kg		10/23/15 11:40	10/27/15 21:06	1
Magnesium	170		46	2.8	mg/Kg		10/23/15 11:40	10/27/15 21:06	1
Manganese	2.0		0.93	0.093	mg/Kg		10/23/15 11:40	10/27/15 21:06	1
Potassium	24	I	93	9.3	mg/Kg		10/23/15 11:40	10/27/15 21:06	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	690		18	9.6	mg/Kg		10/19/15 11:26	10/20/15 15:39	1
Phosphorus, Total	69		3.7	1.1	mg/Kg		10/19/15 11:28	10/20/15 11:13	1
Nitrogen, Total	0.069		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	1.5		0.99	0.32	mg/Kg			10/22/15 17:10	1
Nitrate Nitrite as N	0.36	U	0.99	0.36	mg/Kg			10/23/15 18:58	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/17/15 12:34	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/17/15 12:33	1
Sulfate	360		100	28	mg/Kg			11/03/15 12:58	1
Chloride	410		40	12	mg/Kg			11/03/15 12:55	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 18:58	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 5.5 SED (10/15/2015)

Lab Sample ID: 660-69852-12

Date Collected: 10/15/15 15:10

Matrix: Solid

Date Received: 10/16/15 06:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.57	I	1.1	0.21	mg/Kg		10/23/15 11:40	10/27/15 21:10	1
Iron	360		11	5.3	mg/Kg		10/23/15 11:40	10/27/15 21:10	1
Magnesium	95		53	3.2	mg/Kg		10/23/15 11:40	10/27/15 21:10	1
Manganese	1.3		1.1	0.11	mg/Kg		10/23/15 11:40	10/27/15 21:10	1
Potassium	21	I	110	11	mg/Kg		10/23/15 11:40	10/27/15 21:10	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	230		22	11	mg/Kg		10/19/15 11:26	10/20/15 15:40	1
Phosphorus, Total	36		4.4	1.3	mg/Kg		10/19/15 11:28	10/20/15 11:14	1
Nitrogen, Total	0.023		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	1.8		0.98	0.31	mg/Kg			10/22/15 17:11	1
Nitrate Nitrite as N	0.35	U J3	0.98	0.35	mg/Kg			10/23/15 18:59	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/17/15 12:35	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/17/15 12:33	1
Sulfate	26	U	91	26	mg/Kg			11/04/15 16:00	1
Chloride	320		37	11	mg/Kg			11/04/15 15:53	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 18:59	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 6.0 SED (10/15/2015)

Lab Sample ID: 660-69852-13

Date Collected: 10/15/15 15:55

Matrix: Solid

Date Received: 10/16/15 06:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.37	I	0.96	0.19	mg/Kg		10/23/15 11:40	10/27/15 21:13	1
Iron	430		9.6	4.8	mg/Kg		10/23/15 11:40	10/27/15 21:13	1
Magnesium	120		48	2.9	mg/Kg		10/23/15 11:40	10/27/15 21:13	1
Manganese	2.0		0.96	0.096	mg/Kg		10/23/15 11:40	10/27/15 21:13	1
Potassium	32	I	96	9.6	mg/Kg		10/23/15 11:40	10/27/15 21:13	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	210		16	8.1	mg/Kg		10/19/15 11:26	10/20/15 15:41	1
Phosphorus, Total	32		3.1	0.94	mg/Kg		10/19/15 11:28	10/20/15 11:15	1
Nitrogen, Total	0.021		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	3.4		0.98	0.31	mg/Kg			10/22/15 17:17	1
Nitrate Nitrite as N	0.37	I	0.98	0.35	mg/Kg			10/23/15 19:02	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/17/15 12:50	1
Orthophosphate	1.2		1.0	0.30	mg/Kg			10/17/15 12:33	1
Sulfate	26	U	93	26	mg/Kg			11/04/15 16:00	1
Chloride	280		37	11	mg/Kg			11/04/15 15:53	1
Nitrate as N	0.37	I	1.0	0.36	mg/Kg			10/23/15 19:02	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 6.5 SW (10/16/2015)

Lab Sample ID: 660-69879-1

Date Collected: 10/16/15 09:25

Matrix: Water

Date Received: 10/17/15 06:35

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.9	I	10	2.5	ug/L		10/28/15 13:49	11/04/15 19:40	1
Iron	73	I	200	50	ug/L		10/28/15 13:49	11/04/15 19:40	1
Magnesium	67000		80	20	ug/L		10/28/15 13:49	11/04/15 19:40	1
Manganese	1.5	I	4.0	1.0	ug/L		10/28/15 13:49	11/04/15 19:40	1
Potassium	22000		1000	190	ug/L		10/28/15 13:49	11/04/15 19:40	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	I	10	2.5	ug/L		10/28/15 13:49	11/04/15 20:21	1
Iron	50	U	200	50	ug/L		10/28/15 13:49	11/04/15 20:21	1
Magnesium	67000		80	20	ug/L		10/28/15 13:49	11/04/15 20:21	1
Manganese	1.0	U	4.0	1.0	ug/L		10/28/15 13:49	11/04/15 20:21	1
Potassium	22000		1000	190	ug/L		10/28/15 13:49	11/04/15 20:21	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/29/15 14:39	1
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/20/15 16:49	10/22/15 14:22	1
Nitrate Nitrite as N	0.35		0.050	0.018	mg/L			10/29/15 11:07	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/17/15 12:19	1
Phosphorus, Total	0.032	U	0.10	0.032	mg/L		10/20/15 16:52	10/23/15 18:15	1
Nitrate as N	0.35		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.35		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	590		100	30	mg/L			10/24/15 11:48	50
Sulfate	78	I	100	28	mg/L			10/31/15 12:54	20
Ferrous Iron	69	Q	50	20	ug/L			10/21/15 16:31	1
Nitrogen, Total	0.35	I	0.50	0.26	mg/L			11/04/15 10:30	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0070	I	0.010	0.0050	mg/L			10/17/15 12:15	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 6.5 PW (10/16/2015)

Lab Sample ID: 660-69879-2

Date Collected: 10/16/15 09:25

Matrix: Water

Date Received: 10/17/15 06:35

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.1	I	10	2.5	ug/L		10/28/15 13:49	11/04/15 19:50	1
Iron	280		200	50	ug/L		10/28/15 13:49	11/04/15 19:50	1
Magnesium	83000		80	20	ug/L		10/28/15 13:49	11/04/15 19:50	1
Manganese	5.0		4.0	1.0	ug/L		10/28/15 13:49	11/04/15 19:50	1
Potassium	27000		1000	190	ug/L		10/28/15 13:49	11/04/15 19:50	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/28/15 13:49	11/04/15 20:31	1
Iron	50	U	200	50	ug/L		10/28/15 13:49	11/04/15 20:31	1
Magnesium	84000		80	20	ug/L		10/28/15 13:49	11/04/15 20:31	1
Manganese	4.6		4.0	1.0	ug/L		10/28/15 13:49	11/04/15 20:31	1
Potassium	27000		1000	190	ug/L		10/28/15 13:49	11/04/15 20:31	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.19		0.050	0.020	mg/L			10/29/15 14:40	1
Total Kjeldahl Nitrogen	0.43	I	0.50	0.26	mg/L		10/20/15 16:49	10/22/15 14:23	1
Nitrate Nitrite as N	0.018	U	0.050	0.018	mg/L			10/29/15 11:08	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/17/15 12:23	1
Phosphorus, Total	0.047	I	0.10	0.032	mg/L		10/20/15 16:52	10/23/15 18:16	1
Nitrate as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	1500		100	30	mg/L			10/24/15 11:55	50
Sulfate	130		100	28	mg/L			10/31/15 12:54	20
Ferrous Iron	390	Q	50	20	ug/L			10/21/15 16:31	1
Nitrogen, Total	0.43	I	0.50	0.26	mg/L			11/04/15 10:30	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.060		0.010	0.0050	mg/L			10/17/15 12:15	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 7.5 SW (10/16/2015)

Lab Sample ID: 660-69879-3

Date Collected: 10/16/15 11:20

Matrix: Water

Date Received: 10/17/15 06:35

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.7	I	10	2.5	ug/L		10/28/15 13:49	11/04/15 19:53	1
Iron	200		200	50	ug/L		10/28/15 13:49	11/04/15 19:53	1
Magnesium	76000		80	20	ug/L		10/28/15 13:49	11/04/15 19:53	1
Manganese	2.7	I	4.0	1.0	ug/L		10/28/15 13:49	11/04/15 19:53	1
Potassium	26000		1000	190	ug/L		10/28/15 13:49	11/04/15 19:53	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	I	10	2.5	ug/L		10/28/15 13:49	11/04/15 20:34	1
Iron	50	U	200	50	ug/L		10/28/15 13:49	11/04/15 20:34	1
Magnesium	76000		80	20	ug/L		10/28/15 13:49	11/04/15 20:34	1
Manganese	1.0	U	4.0	1.0	ug/L		10/28/15 13:49	11/04/15 20:34	1
Potassium	25000		1000	190	ug/L		10/28/15 13:49	11/04/15 20:34	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/29/15 14:41	1
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/20/15 16:49	10/22/15 14:24	1
Nitrate Nitrite as N	0.38		0.050	0.018	mg/L			10/29/15 11:09	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/17/15 12:25	1
Phosphorus, Total	0.032	U	0.10	0.032	mg/L		10/20/15 16:52	10/23/15 18:17	1
Nitrate as N	0.38		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.38		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	1400		100	30	mg/L			10/24/15 11:55	50
Sulfate	140		50	14	mg/L			10/31/15 11:41	10
Ferrous Iron	99	Q	50	20	ug/L			10/21/15 16:31	1
Nitrogen, Total	0.38	I	0.50	0.26	mg/L			11/04/15 10:30	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.12		0.010	0.0050	mg/L			10/17/15 12:15	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 7.5 PW (10/16/2015)

Lab Sample ID: 660-69879-4

Date Collected: 10/16/15 11:20

Matrix: Water

Date Received: 10/17/15 06:35

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.7	I	10	2.5	ug/L		10/28/15 13:49	11/04/15 19:57	1
Iron	50	U	200	50	ug/L		10/28/15 13:49	11/04/15 19:57	1
Magnesium	98000		80	20	ug/L		10/28/15 13:49	11/04/15 19:57	1
Manganese	4.7		4.0	1.0	ug/L		10/28/15 13:49	11/04/15 19:57	1
Potassium	36000		1000	190	ug/L		10/28/15 13:49	11/04/15 19:57	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.6	I	10	2.5	ug/L		10/28/15 13:49	11/04/15 20:38	1
Iron	50	U	200	50	ug/L		10/28/15 13:49	11/04/15 20:38	1
Magnesium	99000		80	20	ug/L		10/28/15 13:49	11/04/15 20:38	1
Manganese	3.8	I	4.0	1.0	ug/L		10/28/15 13:49	11/04/15 20:38	1
Potassium	36000		1000	190	ug/L		10/28/15 13:49	11/04/15 20:38	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	1.0		0.050	0.020	mg/L			10/29/15 15:41	1
Total Kjeldahl Nitrogen	1.4		0.50	0.26	mg/L		10/20/15 16:49	10/22/15 14:25	1
Nitrate Nitrite as N	0.018	U	0.050	0.018	mg/L			10/29/15 11:10	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/17/15 12:31	1
Phosphorus, Total	0.17		0.10	0.032	mg/L		10/20/15 16:52	10/23/15 18:18	1
Nitrate as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	1900		200	60	mg/L			10/24/15 11:59	100
Sulfate	200		75	21	mg/L			10/31/15 12:05	15
Ferrous Iron	56	Q	50	20	ug/L			10/21/15 16:31	1
Nitrogen, Total	1.4		0.50	0.26	mg/L			11/04/15 10:30	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.16		0.010	0.0050	mg/L			10/17/15 12:15	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 8.5 SW (10/16/2015)

Lab Sample ID: 660-69879-5

Date Collected: 10/16/15 14:05

Matrix: Water

Date Received: 10/17/15 06:35

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.7	I	10	2.5	ug/L		10/28/15 13:49	11/04/15 20:00	1
Iron	220		200	50	ug/L		10/28/15 13:49	11/04/15 20:00	1
Magnesium	81000		80	20	ug/L		10/28/15 13:49	11/04/15 20:00	1
Manganese	3.3	I	4.0	1.0	ug/L		10/28/15 13:49	11/04/15 20:00	1
Potassium	27000		1000	190	ug/L		10/28/15 13:49	11/04/15 20:00	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	I	10	2.5	ug/L		10/28/15 13:49	11/04/15 20:41	1
Iron	50	U	200	50	ug/L		10/28/15 13:49	11/04/15 20:41	1
Magnesium	85000		80	20	ug/L		10/28/15 13:49	11/04/15 20:41	1
Manganese	1.0	U	4.0	1.0	ug/L		10/28/15 13:49	11/04/15 20:41	1
Potassium	28000		1000	190	ug/L		10/28/15 13:49	11/04/15 20:41	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/29/15 15:44	1
Total Kjeldahl Nitrogen	0.43	I	0.50	0.26	mg/L		10/20/15 16:49	10/22/15 14:28	1
Nitrate Nitrite as N	0.30	J3	0.050	0.018	mg/L			10/29/15 11:36	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/17/15 12:33	1
Phosphorus, Total	0.20		0.10	0.032	mg/L		10/20/15 16:52	10/23/15 18:21	1
Nitrate as N	0.30		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.30		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	1500		100	30	mg/L			10/24/15 11:55	50
Sulfate	160		25	7.0	mg/L			11/06/15 14:31	5
Ferrous Iron	120	Q	50	20	ug/L			10/21/15 16:31	1
Nitrogen, Total	0.73		0.50	0.26	mg/L			11/04/15 10:36	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.018		0.010	0.0050	mg/L			10/17/15 12:15	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 8.5 PW (10/16/2015)

Lab Sample ID: 660-69879-6

Date Collected: 10/16/15 14:05

Matrix: Water

Date Received: 10/17/15 06:35

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.7	I	10	2.5	ug/L		10/28/15 13:49	11/04/15 20:04	1
Iron	50	U	200	50	ug/L		10/28/15 13:49	11/04/15 20:04	1
Magnesium	96000		80	20	ug/L		10/28/15 13:49	11/04/15 20:04	1
Manganese	8.2		4.0	1.0	ug/L		10/28/15 13:49	11/04/15 20:04	1
Potassium	35000		1000	190	ug/L		10/28/15 13:49	11/04/15 20:04	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.1	I	10	2.5	ug/L		10/28/15 13:49	11/04/15 20:45	1
Iron	61	I	200	50	ug/L		10/28/15 13:49	11/04/15 20:45	1
Magnesium	100000		80	20	ug/L		10/28/15 13:49	11/04/15 20:45	1
Manganese	4.4		4.0	1.0	ug/L		10/28/15 13:49	11/04/15 20:45	1
Potassium	36000		1000	190	ug/L		10/28/15 13:49	11/04/15 20:45	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	1.7		0.050	0.020	mg/L			10/29/15 15:45	1
Total Kjeldahl Nitrogen	2.2		0.50	0.26	mg/L		10/20/15 16:49	10/22/15 14:29	1
Nitrate Nitrite as N	0.018	U	0.050	0.018	mg/L			10/29/15 11:39	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/17/15 12:34	1
Phosphorus, Total	0.34		0.10	0.032	mg/L		10/20/15 16:52	10/23/15 18:23	1
Nitrate as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	1900		200	60	mg/L			10/24/15 12:05	100
Sulfate	170		25	7.0	mg/L			11/06/15 14:31	5
Ferrous Iron	97	Q	50	20	ug/L			10/21/15 16:31	1
Nitrogen, Total	2.2		0.50	0.26	mg/L			11/04/15 10:36	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.27		0.010	0.0050	mg/L			10/17/15 12:15	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 6.5 SED (10/16/2015)

Lab Sample ID: 660-69879-7

Date Collected: 10/16/15 09:05

Matrix: Solid

Date Received: 10/17/15 06:35

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.36	I	1.0	0.21	mg/Kg		10/23/15 11:40	10/27/15 21:26	1
Iron	610		10	5.2	mg/Kg		10/23/15 11:40	10/27/15 21:26	1
Magnesium	120		52	3.1	mg/Kg		10/23/15 11:40	10/27/15 21:26	1
Manganese	1.9		1.0	0.10	mg/Kg		10/23/15 11:40	10/27/15 21:26	1
Potassium	35	I	100	10	mg/Kg		10/23/15 11:40	10/27/15 21:26	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	200	J3	18	9.3	mg/Kg		10/20/15 16:06	10/22/15 15:12	1
Phosphorus, Total	36	J3	3.6	1.1	mg/Kg		10/20/15 16:08	10/23/15 18:36	1
Nitrogen, Total	0.020		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	2.4		0.99	0.32	mg/Kg			10/22/15 17:18	1
Nitrate Nitrite as N	0.35	U	0.99	0.35	mg/Kg			10/23/15 19:03	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/20/15 16:45	1
Orthophosphate	0.94	I	1.0	0.30	mg/Kg			10/20/15 16:43	1
Sulfate	26	U	92	26	mg/Kg			11/04/15 16:00	1
Chloride	360		37	11	mg/Kg			11/04/15 15:53	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 19:03	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 7.0 SED (10/16/2015)

Lab Sample ID: 660-69879-8

Date Collected: 10/16/15 10:10

Matrix: Solid

Date Received: 10/17/15 06:35

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.47	I	1.0	0.21	mg/Kg		10/23/15 11:40	10/27/15 21:30	1
Iron	790		10	5.2	mg/Kg		10/23/15 11:40	10/27/15 21:30	1
Magnesium	170		52	3.1	mg/Kg		10/23/15 11:40	10/27/15 21:30	1
Manganese	1.5		1.0	0.10	mg/Kg		10/23/15 11:40	10/27/15 21:30	1
Potassium	47	I	100	10	mg/Kg		10/23/15 11:40	10/27/15 21:30	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	320		11	5.7	mg/Kg		10/20/15 16:06	10/22/15 15:15	1
Phosphorus, Total	72		2.2	0.65	mg/Kg		10/20/15 16:08	10/23/15 18:39	1
Nitrogen, Total	0.032		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	1.4		0.98	0.31	mg/Kg			10/22/15 17:19	1
Nitrate Nitrite as N	0.35	U	0.98	0.35	mg/Kg			10/23/15 19:04	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/20/15 16:45	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/20/15 16:43	1
Sulfate	27	U	95	27	mg/Kg			11/04/15 16:00	1
Chloride	370		38	11	mg/Kg			11/04/15 15:54	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 19:04	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 7.5 SED (10/16/2015)

Lab Sample ID: 660-69879-9

Date Collected: 10/16/15 10:50

Matrix: Solid

Date Received: 10/17/15 06:35

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.45	I	0.96	0.19	mg/Kg		10/23/15 11:40	10/27/15 21:33	1
Iron	1100		9.6	4.8	mg/Kg		10/23/15 11:40	10/27/15 21:33	1
Magnesium	240		48	2.9	mg/Kg		10/23/15 11:40	10/27/15 21:33	1
Manganese	2.4		0.96	0.096	mg/Kg		10/23/15 11:40	10/27/15 21:33	1
Potassium	42	I	96	9.6	mg/Kg		10/23/15 11:40	10/27/15 21:33	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	410		12	6.3	mg/Kg		10/20/15 16:06	10/22/15 15:16	1
Phosphorus, Total	59		2.4	0.73	mg/Kg		10/20/15 16:08	10/23/15 18:40	1
Nitrogen, Total	0.041		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.63	I	0.98	0.32	mg/Kg			10/22/15 17:20	1
Nitrate Nitrite as N	0.35	U	0.98	0.35	mg/Kg			10/23/15 19:10	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/20/15 16:45	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/20/15 16:43	1
Sulfate	41	I	92	26	mg/Kg			11/04/15 16:00	1
Chloride	440		37	11	mg/Kg			11/04/15 15:54	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 19:10	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 8.0 SED (10/16/2015)

Lab Sample ID: 660-69879-10

Date Collected: 10/16/15 12:25

Matrix: Solid

Date Received: 10/17/15 06:35

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.1		1.0	0.20	mg/Kg		10/23/15 11:40	10/27/15 21:37	1
Iron	2400		10	5.1	mg/Kg		10/23/15 11:40	10/27/15 21:37	1
Magnesium	470		51	3.1	mg/Kg		10/23/15 11:40	10/27/15 21:37	1
Manganese	5.8		1.0	0.10	mg/Kg		10/23/15 11:40	10/27/15 21:37	1
Potassium	72	I	100	10	mg/Kg		10/23/15 11:40	10/27/15 21:37	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	730		20	10	mg/Kg		10/20/15 16:06	10/22/15 15:38	2
Phosphorus, Total	110		2.0	0.60	mg/Kg		10/20/15 16:08	10/23/15 18:41	1
Nitrogen, Total	0.073		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	1.9		0.99	0.32	mg/Kg			10/22/15 17:21	1
Nitrate Nitrite as N	0.36	U	0.99	0.36	mg/Kg			10/23/15 19:11	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/20/15 16:44	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/20/15 16:43	1
Sulfate	85	I	93	26	mg/Kg			11/04/15 16:00	1
Chloride	730		37	11	mg/Kg			11/04/15 15:54	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 19:11	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 8.5 SED (10/16/2015)

Lab Sample ID: 660-69879-11

Date Collected: 10/16/15 13:45

Matrix: Solid

Date Received: 10/17/15 06:35

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.0		0.99	0.20	mg/Kg		10/23/15 11:40	10/27/15 21:40	1
Iron	2400		9.9	5.0	mg/Kg		10/23/15 11:40	10/27/15 21:40	1
Magnesium	490		50	3.0	mg/Kg		10/23/15 11:40	10/27/15 21:40	1
Manganese	6.6		0.99	0.099	mg/Kg		10/23/15 11:40	10/27/15 21:40	1
Potassium	81	I	99	9.9	mg/Kg		10/23/15 11:40	10/27/15 21:40	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	1200		27	14	mg/Kg		10/20/15 16:06	10/22/15 15:36	2
Phosphorus, Total	220		2.7	0.81	mg/Kg		10/20/15 16:08	10/23/15 18:42	1
Nitrogen, Total	0.12		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	1.8		0.99	0.32	mg/Kg			10/22/15 17:22	1
Nitrate Nitrite as N	0.36	U	0.99	0.36	mg/Kg			10/23/15 19:12	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/20/15 16:45	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/20/15 16:43	1
Sulfate	120		99	28	mg/Kg			11/04/15 16:00	1
Chloride	880		39	12	mg/Kg			11/04/15 15:54	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 19:12	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 9.0 SED (10/16/2015)

Lab Sample ID: 660-69879-12

Date Collected: 10/16/15 15:35

Matrix: Solid

Date Received: 10/17/15 06:35

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.58	I	0.97	0.19	mg/Kg		10/23/15 11:40	10/27/15 21:43	1
Iron	1400		9.7	4.8	mg/Kg		10/23/15 11:40	10/27/15 21:43	1
Magnesium	330		48	2.9	mg/Kg		10/23/15 11:40	10/27/15 21:43	1
Manganese	4.7		0.97	0.097	mg/Kg		10/23/15 11:40	10/27/15 21:43	1
Potassium	61	I	97	9.7	mg/Kg		10/23/15 11:40	10/27/15 21:43	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	650		16	8.6	mg/Kg		10/20/15 16:06	10/22/15 15:20	1
Phosphorus, Total	160		3.3	0.99	mg/Kg		10/20/15 16:08	10/23/15 18:44	1
Nitrogen, Total	0.065		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	1.6		0.99	0.32	mg/Kg			10/22/15 17:23	1
Nitrate Nitrite as N	0.36	U	0.99	0.36	mg/Kg			10/23/15 19:13	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/20/15 16:45	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/20/15 16:43	1
Sulfate	46	I	98	27	mg/Kg			11/04/15 16:00	1
Chloride	640		39	12	mg/Kg			11/04/15 15:53	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 19:13	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 9.5 SED (10/16/2015)

Lab Sample ID: 660-69879-13

Date Collected: 10/16/15 16:00

Matrix: Solid

Date Received: 10/17/15 06:35

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.78	I	0.90	0.18	mg/Kg		10/23/15 11:40	10/27/15 21:47	1
Iron	2200		9.0	4.5	mg/Kg		10/23/15 11:40	10/27/15 21:47	1
Magnesium	460		45	2.7	mg/Kg		10/23/15 11:40	10/27/15 21:47	1
Manganese	5.7		0.90	0.090	mg/Kg		10/23/15 11:40	10/27/15 21:47	1
Potassium	89	I	90	9.0	mg/Kg		10/23/15 11:40	10/27/15 21:47	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	720		16	8.3	mg/Kg		10/20/15 16:06	10/22/15 15:33	1
Phosphorus, Total	130		3.2	0.96	mg/Kg		10/20/15 16:08	10/23/15 18:48	1
Nitrogen, Total	0.072		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	1.4		1.0	0.32	mg/Kg			10/22/15 17:24	1
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 19:14	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/20/15 17:24	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/20/15 16:43	1
Sulfate	120		98	27	mg/Kg			11/04/15 16:07	1
Chloride	900		39	12	mg/Kg			11/04/15 15:54	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 19:14	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 10.5 SW (10/19/2015)

Lab Sample ID: 660-69893-1

Date Collected: 10/19/15 11:30

Matrix: Water

Date Received: 10/20/15 08:10

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.5	I	10	2.5	ug/L		10/29/15 11:30	11/04/15 08:57	1
Iron	310		200	50	ug/L		10/29/15 11:30	11/04/15 08:57	1
Magnesium	99000		80	20	ug/L		10/29/15 11:30	11/04/15 08:57	1
Manganese	6.1		4.0	1.0	ug/L		10/29/15 11:30	11/04/15 08:57	1
Potassium	35000		1000	190	ug/L		10/29/15 11:30	11/04/15 08:57	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.5	I	10	2.5	ug/L		10/29/15 11:29	11/04/15 09:53	1
Iron	50	U	200	50	ug/L		10/29/15 11:29	11/04/15 09:53	1
Magnesium	110000		80	20	ug/L		10/29/15 11:29	11/04/15 09:53	1
Manganese	1.0	U	4.0	1.0	ug/L		10/29/15 11:29	11/04/15 09:53	1
Potassium	37000		1000	190	ug/L		10/29/15 11:29	11/04/15 09:53	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/29/15 15:46	1
Total Kjeldahl Nitrogen	0.70		0.50	0.26	mg/L		10/22/15 10:35	10/27/15 09:22	1
Nitrate Nitrite as N	0.16		0.050	0.018	mg/L			10/29/15 11:40	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/20/15 11:33	1
Phosphorus, Total	0.10	V	0.10	0.032	mg/L		10/22/15 10:37	10/23/15 19:39	1
Nitrate as N	0.16		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.16		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	2000		200	60	mg/L			10/24/15 12:05	100
Sulfate	180	J3	50	14	mg/L			11/06/15 15:11	10
Ferrous Iron	110	Q	50	20	ug/L			10/21/15 16:31	1
Nitrogen, Total	0.86		0.50	0.26	mg/L			11/04/15 10:36	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0050	U	0.010	0.0050	mg/L			10/21/15 08:35	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 10.5 PW (10/19/2015)

Lab Sample ID: 660-69893-2

Date Collected: 10/19/15 11:30

Matrix: Water

Date Received: 10/20/15 08:10

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.1	I	10	2.5	ug/L		10/29/15 11:30	11/04/15 09:00	1
Iron	70	I	200	50	ug/L		10/29/15 11:30	11/04/15 09:00	1
Magnesium	94000		80	20	ug/L		10/29/15 11:30	11/04/15 09:00	1
Manganese	5.1		4.0	1.0	ug/L		10/29/15 11:30	11/04/15 09:00	1
Potassium	32000		1000	190	ug/L		10/29/15 11:30	11/04/15 09:00	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.9	I	10	2.5	ug/L		10/29/15 11:29	11/04/15 09:57	1
Iron	50	U	200	50	ug/L		10/29/15 11:29	11/04/15 09:57	1
Magnesium	98000		80	20	ug/L		10/29/15 11:29	11/04/15 09:57	1
Manganese	1.0	U	4.0	1.0	ug/L		10/29/15 11:29	11/04/15 09:57	1
Potassium	33000		1000	190	ug/L		10/29/15 11:29	11/04/15 09:57	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/29/15 15:47	1
Total Kjeldahl Nitrogen	0.59		0.50	0.26	mg/L		10/22/15 10:35	10/27/15 09:23	1
Nitrate Nitrite as N	0.10		0.050	0.018	mg/L			10/29/15 11:41	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/20/15 11:33	1
Phosphorus, Total	0.057	I V	0.10	0.032	mg/L		10/22/15 10:37	10/23/15 19:40	1
Nitrate as N	0.10		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.10		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	1800		200	60	mg/L			10/24/15 12:05	100
Sulfate	180		50	14	mg/L			11/06/15 15:11	10
Ferrous Iron	95	Q	50	20	ug/L			10/21/15 16:31	1
Nitrogen, Total	0.69		0.50	0.26	mg/L			11/04/15 10:36	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0060	I	0.010	0.0050	mg/L			10/21/15 08:35	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 9.5 SW (10/19/2015)

Lab Sample ID: 660-69893-3

Date Collected: 10/19/15 14:25

Matrix: Water

Date Received: 10/20/15 08:10

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.0	I	10	2.5	ug/L		10/29/15 11:30	11/04/15 08:44	1
Iron	160	I	200	50	ug/L		10/29/15 11:30	11/04/15 08:44	1
Magnesium	88000	J3	80	20	ug/L		10/29/15 11:30	11/04/15 08:44	1
Manganese	3.6	I	4.0	1.0	ug/L		10/29/15 11:30	11/04/15 08:44	1
Potassium	29000		1000	190	ug/L		10/29/15 11:30	11/04/15 08:44	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.0	I	10	2.5	ug/L		10/29/15 11:29	11/04/15 10:00	1
Iron	50	U	200	50	ug/L		10/29/15 11:29	11/04/15 10:00	1
Magnesium	89000		80	20	ug/L		10/29/15 11:29	11/04/15 10:00	1
Manganese	1.0	U	4.0	1.0	ug/L		10/29/15 11:29	11/04/15 10:00	1
Potassium	30000		1000	190	ug/L		10/29/15 11:29	11/04/15 10:00	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/29/15 15:49	1
Total Kjeldahl Nitrogen	0.51		0.50	0.26	mg/L		10/22/15 10:35	10/27/15 09:24	1
Nitrate Nitrite as N	1.0		0.050	0.018	mg/L			10/29/15 11:42	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/20/15 11:33	1
Phosphorus, Total	0.065	I V	0.10	0.032	mg/L		10/22/15 10:37	10/23/15 19:41	1
Nitrate as N	0.20		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.20		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	1600		200	60	mg/L			10/24/15 12:05	100
Sulfate	140		25	7.0	mg/L			11/06/15 14:36	5
Ferrous Iron	90	Q	50	20	ug/L			10/21/15 16:31	1
Nitrogen, Total	1.5		0.50	0.26	mg/L			11/04/15 10:36	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0050	I	0.010	0.0050	mg/L			10/21/15 08:35	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 9.5 PW (10/19/2015)

Lab Sample ID: 660-69893-4

Date Collected: 10/19/15 14:25

Matrix: Water

Date Received: 10/20/15 08:10

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.0	I	10	2.5	ug/L		10/29/15 11:30	11/04/15 09:13	1
Iron	260		200	50	ug/L		10/29/15 11:30	11/04/15 09:13	1
Magnesium	98000		80	20	ug/L		10/29/15 11:30	11/04/15 09:13	1
Manganese	13		4.0	1.0	ug/L		10/29/15 11:30	11/04/15 09:13	1
Potassium	36000		1000	190	ug/L		10/29/15 11:30	11/04/15 09:13	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.2	I	10	2.5	ug/L		10/29/15 11:29	11/04/15 10:04	1
Iron	50	U	200	50	ug/L		10/29/15 11:29	11/04/15 10:04	1
Magnesium	100000		80	20	ug/L		10/29/15 11:29	11/04/15 10:04	1
Manganese	5.6		4.0	1.0	ug/L		10/29/15 11:29	11/04/15 10:04	1
Potassium	37000		1000	190	ug/L		10/29/15 11:29	11/04/15 10:04	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/29/15 15:52	1
Total Kjeldahl Nitrogen	1.8		0.50	0.26	mg/L		10/22/15 10:35	10/27/15 09:28	1
Nitrate Nitrite as N	0.020	I	0.050	0.018	mg/L			10/29/15 11:43	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/20/15 11:33	1
Phosphorus, Total	0.39	V	0.10	0.032	mg/L		10/22/15 10:37	10/23/15 19:44	1
Nitrate as N	0.020		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.020		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	1800	J3	200	60	mg/L			10/24/15 14:02	100
Sulfate	180		50	14	mg/L			11/06/15 15:11	10
Ferrous Iron	180	Q	50	20	ug/L			10/21/15 16:31	1
Nitrogen, Total	1.8		0.50	0.26	mg/L			11/04/15 10:36	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.044		0.010	0.0050	mg/L			10/21/15 08:35	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 10.5 SED (10/19/2015)

Lab Sample ID: 660-69893-5

Date Collected: 10/19/15 10:55

Matrix: Solid

Date Received: 10/20/15 08:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	4.0		0.95	0.19	mg/Kg		10/23/15 11:40	10/27/15 21:50	1
Iron	4200		9.5	4.7	mg/Kg		10/23/15 11:40	10/27/15 21:50	1
Magnesium	1100		47	2.8	mg/Kg		10/23/15 11:40	10/27/15 21:50	1
Manganese	18		0.95	0.095	mg/Kg		10/23/15 11:40	10/27/15 21:50	1
Potassium	270		95	9.5	mg/Kg		10/23/15 11:40	10/27/15 21:50	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	780	J3	50	26	mg/Kg		10/22/15 11:41	10/27/15 09:46	5
Phosphorus, Total	160	J3	2.0	0.60	mg/Kg		10/22/15 11:47	10/26/15 13:16	1
Nitrogen, Total	0.078		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	5.1		0.99	0.32	mg/Kg			10/22/15 17:25	1
Nitrate Nitrite as N	0.36	U	0.99	0.36	mg/Kg			10/23/15 19:15	1
Nitrite as N	0.36	U J3	2.0	0.36	mg/Kg			10/22/15 08:49	1
Orthophosphate	2.7		1.0	0.30	mg/Kg			10/22/15 08:56	1
Sulfate	120		98	28	mg/Kg			11/04/15 16:07	1
Chloride	1200		79	24	mg/Kg			11/04/15 18:03	2
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 19:15	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 10.0 SED (10/19/2015)

Lab Sample ID: 660-69893-6

Date Collected: 10/19/15 13:15

Matrix: Solid

Date Received: 10/20/15 08:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.1		0.92	0.18	mg/Kg		10/23/15 11:40	10/27/15 21:53	1
Iron	3400		9.2	4.6	mg/Kg		10/23/15 11:40	10/27/15 21:53	1
Magnesium	880		46	2.7	mg/Kg		10/23/15 11:40	10/27/15 21:53	1
Manganese	15		0.92	0.092	mg/Kg		10/23/15 11:40	10/27/15 21:53	1
Potassium	210		92	9.2	mg/Kg		10/23/15 11:40	10/27/15 21:53	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	940		26	14	mg/Kg		10/22/15 11:41	10/27/15 09:51	2
Phosphorus, Total	160		2.6	0.78	mg/Kg		10/22/15 11:47	10/26/15 13:19	1
Nitrogen, Total	0.094		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	5.1	J3	0.99	0.32	mg/Kg			10/22/15 17:38	1
Nitrate Nitrite as N	0.36	U J3	0.99	0.36	mg/Kg			10/23/15 19:24	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/22/15 08:49	1
Orthophosphate	2.0		1.0	0.30	mg/Kg			10/22/15 08:56	1
Sulfate	44	I	96	27	mg/Kg			11/04/15 16:07	1
Chloride	1100		77	23	mg/Kg			11/04/15 18:03	2
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 19:24	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 9.5 SED (10/19/2015)

Lab Sample ID: 660-69893-7

Date Collected: 10/19/15 14:00

Matrix: Solid

Date Received: 10/20/15 08:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	4.9		0.97	0.19	mg/Kg		10/23/15 11:40	10/27/15 21:57	1
Iron	4100		9.7	4.9	mg/Kg		10/23/15 11:40	10/27/15 21:57	1
Magnesium	1000		49	2.9	mg/Kg		10/23/15 11:40	10/27/15 21:57	1
Manganese	18		0.97	0.097	mg/Kg		10/23/15 11:40	10/27/15 21:57	1
Potassium	260		97	9.7	mg/Kg		10/23/15 11:40	10/27/15 21:57	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	1000		25	13	mg/Kg		10/22/15 11:41	10/27/15 09:52	2
Phosphorus, Total	170		2.5	0.75	mg/Kg		10/22/15 11:47	10/26/15 13:20	1
Nitrogen, Total	0.10		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	7.3		0.99	0.32	mg/Kg			10/22/15 17:41	1
Nitrate Nitrite as N	0.36	U	0.99	0.36	mg/Kg			10/23/15 19:27	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/22/15 08:49	1
Orthophosphate	1.9		1.0	0.30	mg/Kg			10/22/15 08:56	1
Sulfate	130		97	27	mg/Kg			11/04/15 16:07	1
Chloride	1800		77	23	mg/Kg			11/04/15 18:03	2
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 19:27	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 9.0 SED (10/19/2015)

Lab Sample ID: 660-69893-8

Date Collected: 10/19/15 15:00

Matrix: Solid

Date Received: 10/20/15 08:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	7.1		0.97	0.19	mg/Kg		10/23/15 11:40	10/27/15 22:10	1
Iron	5000		9.7	4.9	mg/Kg		10/23/15 11:40	10/27/15 22:10	1
Magnesium	1200		49	2.9	mg/Kg		10/23/15 11:40	10/27/15 22:10	1
Manganese	20		0.97	0.097	mg/Kg		10/23/15 11:40	10/27/15 22:10	1
Potassium	290		97	9.7	mg/Kg		10/23/15 11:40	10/27/15 22:10	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	1400		61	32	mg/Kg		10/22/15 11:41	10/27/15 11:09	5
Phosphorus, Total	170		2.4	0.73	mg/Kg		10/22/15 11:47	10/26/15 13:21	1
Nitrogen, Total	0.14		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	11		0.99	0.32	mg/Kg			10/22/15 17:44	1
Nitrate Nitrite as N	0.36	U	0.99	0.36	mg/Kg			10/23/15 19:28	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/22/15 08:49	1
Orthophosphate	2.0		1.0	0.30	mg/Kg			10/22/15 09:11	1
Sulfate	210		100	28	mg/Kg			11/04/15 16:07	1
Chloride	2000		80	24	mg/Kg			11/04/15 18:03	2
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 19:28	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM8.5 SW (10/20/2015)

Lab Sample ID: 660-69919-1

Date Collected: 10/20/15 09:40

Matrix: Water

Date Received: 10/21/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.9	I	10	2.5	ug/L		10/30/15 11:30	11/04/15 18:03	1
Iron	140	I	200	50	ug/L		10/30/15 11:30	11/04/15 18:03	1
Magnesium	110000	J3	80	20	ug/L		10/30/15 11:30	11/04/15 18:03	1
Manganese	4.8		4.0	1.0	ug/L		10/30/15 11:30	11/04/15 18:03	1
Potassium	42000		1000	190	ug/L		10/30/15 11:30	11/04/15 18:03	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.4	I	10	2.5	ug/L		10/30/15 12:48	11/04/15 18:43	1
Iron	50	U	200	50	ug/L		10/30/15 12:48	11/04/15 18:43	1
Magnesium	110000		80	20	ug/L		10/30/15 12:48	11/04/15 18:43	1
Manganese	1.0	U	4.0	1.0	ug/L		10/30/15 12:48	11/04/15 18:43	1
Potassium	42000		1000	190	ug/L		10/30/15 12:48	11/04/15 18:43	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/29/15 15:53	1
Total Kjeldahl Nitrogen	0.50	V	0.50	0.26	mg/L		10/23/15 14:40	10/27/15 10:22	1
Nitrate Nitrite as N	0.18		0.050	0.018	mg/L			10/29/15 11:50	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/21/15 14:46	1
Phosphorus, Total	0.066	I V	0.10	0.032	mg/L		10/23/15 14:42	10/26/15 13:32	1
Nitrate as N	0.18		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.18		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	2200		200	60	mg/L			10/24/15 14:03	100
Sulfate	240		50	14	mg/L			11/06/15 15:11	10
Ferrous Iron	140	Q	50	20	ug/L			10/22/15 20:13	1
Nitrogen, Total	0.68		0.50	0.26	mg/L			11/04/15 10:36	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0050	U	0.010	0.0050	mg/L			10/21/15 19:10	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM8.5 PW (10/20/2015)

Lab Sample ID: 660-69919-2

Date Collected: 10/20/15 09:40

Matrix: Water

Date Received: 10/21/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.3	I	10	2.5	ug/L		10/30/15 11:30	11/04/15 18:16	1
Iron	690		200	50	ug/L		10/30/15 11:30	11/04/15 18:16	1
Magnesium	97000		80	20	ug/L		10/30/15 11:30	11/04/15 18:16	1
Manganese	38		4.0	1.0	ug/L		10/30/15 11:30	11/04/15 18:16	1
Potassium	34000		1000	190	ug/L		10/30/15 11:30	11/04/15 18:16	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.4	I	10	2.5	ug/L		10/30/15 12:48	11/04/15 18:46	1
Iron	230		200	50	ug/L		10/30/15 12:48	11/04/15 18:46	1
Magnesium	99000		80	20	ug/L		10/30/15 12:48	11/04/15 18:46	1
Manganese	8.9		4.0	1.0	ug/L		10/30/15 12:48	11/04/15 18:46	1
Potassium	35000		1000	190	ug/L		10/30/15 12:48	11/04/15 18:46	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	1.4		0.050	0.020	mg/L			10/29/15 15:54	1
Total Kjeldahl Nitrogen	2.2	V	0.50	0.26	mg/L		10/23/15 14:40	10/27/15 10:23	1
Nitrate Nitrite as N	0.018	U	0.050	0.018	mg/L			10/29/15 11:51	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/21/15 14:47	1
Phosphorus, Total	0.55	V	0.10	0.032	mg/L		10/23/15 14:42	10/26/15 13:33	1
Nitrate as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	1800		200	60	mg/L			10/24/15 14:06	100
Sulfate	160		25	7.0	mg/L			11/06/15 14:36	5
Ferrous Iron	1800	Q	250	100	ug/L			10/22/15 20:13	5
Nitrogen, Total	2.2		0.50	0.26	mg/L			11/04/15 10:36	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.50		0.010	0.0050	mg/L			10/21/15 19:10	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM7.5 SW (10/20/2015)

Lab Sample ID: 660-69919-3

Date Collected: 10/20/15 14:15

Matrix: Water

Date Received: 10/21/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.7	I	10	2.5	ug/L		10/30/15 11:30	11/04/15 18:19	1
Iron	160	I	200	50	ug/L		10/30/15 11:30	11/04/15 18:19	1
Magnesium	84000		80	20	ug/L		10/30/15 11:30	11/04/15 18:19	1
Manganese	2.9	I	4.0	1.0	ug/L		10/30/15 11:30	11/04/15 18:19	1
Potassium	30000		1000	190	ug/L		10/30/15 11:30	11/04/15 18:19	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.2	I	10	2.5	ug/L		10/30/15 12:48	11/04/15 18:50	1
Iron	50	U	200	50	ug/L		10/30/15 12:48	11/04/15 18:50	1
Magnesium	85000		80	20	ug/L		10/30/15 12:48	11/04/15 18:50	1
Manganese	1.0	U	4.0	1.0	ug/L		10/30/15 12:48	11/04/15 18:50	1
Potassium	30000		1000	190	ug/L		10/30/15 12:48	11/04/15 18:50	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/29/15 15:55	1
Total Kjeldahl Nitrogen	0.45	I V	0.50	0.26	mg/L		10/23/15 14:40	10/27/15 10:24	1
Nitrate Nitrite as N	0.23	V J3	0.050	0.018	mg/L			10/28/15 16:24	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/21/15 14:54	1
Phosphorus, Total	0.069	I V	0.10	0.032	mg/L		10/23/15 14:42	10/26/15 13:34	1
Nitrate as N	0.23		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.23		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	1600		200	60	mg/L			10/24/15 14:06	100
Sulfate	200		50	14	mg/L			11/06/15 15:15	10
Ferrous Iron	130	Q	50	20	ug/L			10/22/15 20:13	1
Nitrogen, Total	0.68		0.50	0.26	mg/L			11/04/15 10:38	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0090	I	0.010	0.0050	mg/L			10/21/15 19:10	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM7.5 PW (10/20/2015)

Lab Sample ID: 660-69919-4

Date Collected: 10/20/15 14:15

Matrix: Water

Date Received: 10/21/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.7	I	10	2.5	ug/L		10/30/15 11:30	11/04/15 18:23	1
Iron	310		200	50	ug/L		10/30/15 11:30	11/04/15 18:23	1
Magnesium	86000		80	20	ug/L		10/30/15 11:30	11/04/15 18:23	1
Manganese	5.4		4.0	1.0	ug/L		10/30/15 11:30	11/04/15 18:23	1
Potassium	31000		1000	190	ug/L		10/30/15 11:30	11/04/15 18:23	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.0	I	10	2.5	ug/L		10/30/15 12:48	11/04/15 18:53	1
Iron	50	U	200	50	ug/L		10/30/15 12:48	11/04/15 18:53	1
Magnesium	87000		80	20	ug/L		10/30/15 12:48	11/04/15 18:53	1
Manganese	1.0	U	4.0	1.0	ug/L		10/30/15 12:48	11/04/15 18:53	1
Potassium	31000		1000	190	ug/L		10/30/15 12:48	11/04/15 18:53	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/29/15 15:56	1
Total Kjeldahl Nitrogen	0.73	V	0.50	0.26	mg/L		10/23/15 14:40	10/27/15 10:25	1
Nitrate Nitrite as N	0.21	V	0.050	0.018	mg/L			10/28/15 16:27	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/21/15 14:55	1
Phosphorus, Total	0.091	I V	0.10	0.032	mg/L		10/23/15 14:42	10/26/15 13:36	1
Nitrate as N	0.21		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.21		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	1700		200	60	mg/L			10/24/15 14:06	100
Sulfate	170		25	7.0	mg/L			11/06/15 14:40	5
Ferrous Iron	180	Q	50	20	ug/L			10/22/15 20:13	1
Nitrogen, Total	0.94		0.50	0.26	mg/L			11/04/15 10:38	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.012		0.010	0.0050	mg/L			10/21/15 19:10	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM6.5 SW (10-20-2015)

Lab Sample ID: 660-69919-5

Date Collected: 10/20/15 14:57

Matrix: Water

Date Received: 10/21/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.4	I	10	2.5	ug/L		10/30/15 11:30	11/04/15 18:33	1
Iron	160	I	200	50	ug/L		10/30/15 11:30	11/04/15 18:33	1
Magnesium	71000		80	20	ug/L		10/30/15 11:30	11/04/15 18:33	1
Manganese	2.5	I	4.0	1.0	ug/L		10/30/15 11:30	11/04/15 18:33	1
Potassium	25000		1000	190	ug/L		10/30/15 11:30	11/04/15 18:33	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.7	I	10	2.5	ug/L		10/30/15 12:48	11/04/15 18:57	1
Iron	50	U	200	50	ug/L		10/30/15 12:48	11/04/15 18:57	1
Magnesium	70000		80	20	ug/L		10/30/15 12:48	11/04/15 18:57	1
Manganese	1.0	U	4.0	1.0	ug/L		10/30/15 12:48	11/04/15 18:57	1
Potassium	25000		1000	190	ug/L		10/30/15 12:48	11/04/15 18:57	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/29/15 16:00	1
Total Kjeldahl Nitrogen	0.37	I V	0.50	0.26	mg/L		10/23/15 14:40	10/27/15 10:27	1
Nitrate Nitrite as N	0.28		0.050	0.018	mg/L			10/28/15 16:28	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/21/15 14:57	1
Phosphorus, Total	0.068	I V	0.10	0.032	mg/L		10/23/15 14:42	10/26/15 13:37	1
Nitrate as N	0.28		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.28		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	360		100	30	mg/L			10/24/15 14:13	50
Sulfate	150		25	7.0	mg/L			11/06/15 14:40	5
Ferrous Iron	110	Q	50	20	ug/L			10/22/15 20:13	1
Nitrogen, Total	0.65		0.50	0.26	mg/L			11/04/15 10:38	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0050	U	0.010	0.0050	mg/L			10/21/15 19:10	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM6.5 PW (10-20-2015)

Lab Sample ID: 660-69919-6

Date Collected: 10/20/15 14:57

Matrix: Water

Date Received: 10/21/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.2	I	10	2.5	ug/L		10/30/15 11:30	11/04/15 18:36	1
Iron	81	I	200	50	ug/L		10/30/15 11:30	11/04/15 18:36	1
Magnesium	92000		80	20	ug/L		10/30/15 11:30	11/04/15 18:36	1
Manganese	9.2		4.0	1.0	ug/L		10/30/15 11:30	11/04/15 18:36	1
Potassium	32000		1000	190	ug/L		10/30/15 11:30	11/04/15 18:36	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.0	I	10	2.5	ug/L		10/30/15 12:48	11/04/15 19:00	1
Iron	50	U	200	50	ug/L		10/30/15 12:48	11/04/15 19:00	1
Magnesium	94000		80	20	ug/L		10/30/15 12:48	11/04/15 19:00	1
Manganese	1.4	I	4.0	1.0	ug/L		10/30/15 12:48	11/04/15 19:00	1
Potassium	33000		1000	190	ug/L		10/30/15 12:48	11/04/15 19:00	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.68		0.050	0.020	mg/L			10/29/15 16:01	1
Total Kjeldahl Nitrogen	1.4	V	0.50	0.26	mg/L		10/23/15 14:40	10/27/15 10:30	1
Nitrate Nitrite as N	0.019	I V	0.050	0.018	mg/L			10/28/15 16:29	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/21/15 14:58	1
Phosphorus, Total	0.17	V	0.10	0.032	mg/L		10/23/15 14:42	10/26/15 13:40	1
Nitrate as N	0.019	I	0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.019	I	0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	1800		200	60	mg/L			10/24/15 14:06	100
Sulfate	170		25	7.0	mg/L			11/06/15 14:40	5
Ferrous Iron	90	Q	50	20	ug/L			10/22/15 20:13	1
Nitrogen, Total	1.4		0.50	0.26	mg/L			11/04/15 10:38	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.12		0.010	0.0050	mg/L			10/21/15 19:10	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM5.5 SW (10-20-2015)

Lab Sample ID: 660-69919-7

Date Collected: 10/20/15 15:30

Matrix: Water

Date Received: 10/21/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		12/03/15 10:30	11/04/15 21:04	1
Iron	150	I	200	50	ug/L		12/03/15 10:30	11/04/15 21:04	1
Magnesium	64000	J3	80	20	ug/L		12/03/15 10:30	11/04/15 21:04	1
Manganese	2.0	I	4.0	1.0	ug/L		12/03/15 10:30	11/04/15 21:04	1
Potassium	21000		1000	190	ug/L		12/03/15 10:30	11/04/15 21:04	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		12/03/15 10:30	11/04/15 21:58	1
Iron	50	U	200	50	ug/L		12/03/15 10:30	11/04/15 21:58	1
Magnesium	69000		80	20	ug/L		12/03/15 10:30	11/04/15 21:58	1
Manganese	1.0	U	4.0	1.0	ug/L		12/03/15 10:30	11/04/15 21:58	1
Potassium	22000		1000	190	ug/L		12/03/15 10:30	11/04/15 21:58	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/29/15 16:02	1
Total Kjeldahl Nitrogen	0.43	I V	0.50	0.26	mg/L		10/23/15 14:40	10/27/15 10:31	1
Nitrate Nitrite as N	0.34		0.050	0.018	mg/L			10/28/15 16:35	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/21/15 14:59	1
Phosphorus, Total	0.042	I V	0.10	0.032	mg/L		10/23/15 14:42	10/26/15 13:41	1
Nitrate as N	0.34		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.34		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	1100		100	30	mg/L			10/24/15 14:16	50
Sulfate	140		25	7.0	mg/L			11/06/15 14:44	5
Ferrous Iron	97	Q	50	20	ug/L			10/22/15 20:13	1
Nitrogen, Total	0.77		0.50	0.26	mg/L			11/04/15 10:38	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0070	I	0.010	0.0050	mg/L			10/21/15 19:10	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM5.5 PW (10-20-2015)

Lab Sample ID: 660-69919-8

Date Collected: 10/20/15 15:30

Matrix: Water

Date Received: 10/21/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.6	I	10	2.5	ug/L		12/03/15 10:30	11/04/15 21:17	1
Iron	98	I	200	50	ug/L		12/03/15 10:30	11/04/15 21:17	1
Magnesium	77000		80	20	ug/L		12/03/15 10:30	11/04/15 21:17	1
Manganese	7.6		4.0	1.0	ug/L		12/03/15 10:30	11/04/15 21:17	1
Potassium	26000		1000	190	ug/L		12/03/15 10:30	11/04/15 21:17	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		12/03/15 10:30	11/04/15 22:02	1
Iron	50	U	200	50	ug/L		12/03/15 10:30	11/04/15 22:02	1
Magnesium	79000		80	20	ug/L		12/03/15 10:30	11/04/15 22:02	1
Manganese	1.0	U	4.0	1.0	ug/L		12/03/15 10:30	11/04/15 22:02	1
Potassium	26000		1000	190	ug/L		12/03/15 10:30	11/04/15 22:02	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.20		0.050	0.020	mg/L			10/29/15 16:05	1
Total Kjeldahl Nitrogen	0.81	V	0.50	0.26	mg/L		10/23/15 14:40	10/27/15 10:32	1
Nitrate Nitrite as N	0.041	I V	0.050	0.018	mg/L			10/28/15 16:36	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/21/15 15:03	1
Phosphorus, Total	0.10	V	0.10	0.032	mg/L		10/23/15 14:42	10/26/15 13:42	1
Nitrate as N	0.041		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.041		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	370		100	30	mg/L			10/24/15 14:13	50
Sulfate	160		25	7.0	mg/L			11/06/15 14:44	5
Ferrous Iron	160	Q	50	20	ug/L			10/22/15 20:13	1
Nitrogen, Total	0.85		0.50	0.26	mg/L			11/04/15 10:38	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.064		0.010	0.0050	mg/L			10/21/15 19:10	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM4.5 SW(10/20/2015)

Lab Sample ID: 660-69919-9

Date Collected: 10/20/15 16:55

Matrix: Water

Date Received: 10/21/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.7	I	10	2.5	ug/L		12/03/15 10:30	11/04/15 21:21	1
Iron	50	I	200	50	ug/L		12/03/15 10:30	11/04/15 21:21	1
Magnesium	98000		80	20	ug/L		12/03/15 10:30	11/04/15 21:21	1
Manganese	11		4.0	1.0	ug/L		12/03/15 10:30	11/04/15 21:21	1
Potassium	37000		1000	190	ug/L		12/03/15 10:30	11/04/15 21:21	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	I	10	2.5	ug/L		12/03/15 10:30	11/04/15 22:05	1
Iron	50	U	200	50	ug/L		12/03/15 10:30	11/04/15 22:05	1
Magnesium	99000		80	20	ug/L		12/03/15 10:30	11/04/15 22:05	1
Manganese	10		4.0	1.0	ug/L		12/03/15 10:30	11/04/15 22:05	1
Potassium	37000		1000	190	ug/L		12/03/15 10:30	11/04/15 22:05	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	6.5		0.25	0.10	mg/L			10/29/15 16:27	5
Total Kjeldahl Nitrogen	7.6		0.50	0.26	mg/L		10/23/15 14:40	10/27/15 10:33	1
Nitrate Nitrite as N	0.018	U	0.050	0.018	mg/L			10/28/15 16:37	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/21/15 15:05	1
Phosphorus, Total	0.66		0.10	0.032	mg/L		10/23/15 14:42	10/26/15 13:43	1
Nitrate as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	1900		200	60	mg/L			10/24/15 14:06	100
Sulfate	140		25	7.0	mg/L			11/06/15 14:44	5
Ferrous Iron	71	Q	50	20	ug/L			10/22/15 20:14	1
Nitrogen, Total	7.6		0.50	0.26	mg/L			11/04/15 10:38	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.18		0.010	0.0050	mg/L			10/21/15 19:10	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM4.5 PW (10-20-2015)

Lab Sample ID: 660-69919-10

Date Collected: 10/20/15 16:55

Matrix: Water

Date Received: 10/21/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.6	I	10	2.5	ug/L		12/03/15 10:30	11/04/15 21:24	1
Iron	130	I	200	50	ug/L		12/03/15 10:30	11/04/15 21:24	1
Magnesium	65000		80	20	ug/L		12/03/15 10:30	11/04/15 21:24	1
Manganese	1.9	I	4.0	1.0	ug/L		12/03/15 10:30	11/04/15 21:24	1
Potassium	21000		1000	190	ug/L		12/03/15 10:30	11/04/15 21:24	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		12/03/15 10:30	11/04/15 22:15	1
Iron	50	U	200	50	ug/L		12/03/15 10:30	11/04/15 22:15	1
Magnesium	66000		80	20	ug/L		12/03/15 10:30	11/04/15 22:15	1
Manganese	1.0	U	4.0	1.0	ug/L		12/03/15 10:30	11/04/15 22:15	1
Potassium	21000		1000	190	ug/L		12/03/15 10:30	11/04/15 22:15	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/29/15 16:08	1
Total Kjeldahl Nitrogen	0.41	I V	0.50	0.26	mg/L		10/23/15 14:40	10/27/15 10:34	1
Nitrate Nitrite as N	0.35		0.050	0.018	mg/L			10/28/15 16:38	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/21/15 15:06	1
Phosphorus, Total	0.056	I V	0.10	0.032	mg/L		10/23/15 14:42	10/26/15 13:45	1
Nitrate as N	0.35		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.35		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	1100	J3	100	30	mg/L			10/24/15 14:16	50
Sulfate	140		25	7.0	mg/L			11/06/15 14:44	5
Ferrous Iron	100	Q	50	20	ug/L			10/22/15 20:14	1
Nitrogen, Total	0.76		0.50	0.26	mg/L			11/04/15 10:38	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.011		0.010	0.0050	mg/L			10/21/15 19:10	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM3.5 SW (10-20-2015)

Lab Sample ID: 660-69919-11

Date Collected: 10/20/15 17:40

Matrix: Water

Date Received: 10/21/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.3	I	10	2.5	ug/L		12/03/15 10:30	11/04/15 21:34	1
Iron	85	I	200	50	ug/L		12/03/15 10:30	11/04/15 21:34	1
Magnesium	86000		80	20	ug/L		12/03/15 10:30	11/04/15 21:34	1
Manganese	1.2	I	4.0	1.0	ug/L		12/03/15 10:30	11/04/15 21:34	1
Potassium	29000		1000	190	ug/L		12/03/15 10:30	11/04/15 21:34	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.7	I	10	2.5	ug/L		12/03/15 10:30	11/04/15 22:19	1
Iron	50	U	200	50	ug/L		12/03/15 10:30	11/04/15 22:19	1
Magnesium	95000		80	20	ug/L		12/03/15 10:30	11/04/15 22:19	1
Manganese	1.0	U	4.0	1.0	ug/L		12/03/15 10:30	11/04/15 22:19	1
Potassium	33000		1000	190	ug/L		12/03/15 10:30	11/04/15 22:19	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/29/15 16:09	1
Total Kjeldahl Nitrogen	0.47	I V	0.50	0.26	mg/L		10/23/15 14:40	10/27/15 10:35	1
Nitrate Nitrite as N	0.21	V	0.050	0.018	mg/L			10/28/15 16:39	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/21/15 15:15	1
Phosphorus, Total	0.072	I V	0.10	0.032	mg/L		10/23/15 14:42	10/26/15 13:46	1
Nitrate as N	0.21		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.21		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	1800		200	60	mg/L			10/24/15 14:13	100
Sulfate	190		50	14	mg/L			11/06/15 15:15	10
Ferrous Iron	86	Q	50	20	ug/L			10/22/15 20:14	1
Nitrogen, Total	0.68		0.50	0.26	mg/L			11/04/15 10:38	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0050	U	0.010	0.0050	mg/L			10/21/15 19:10	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM3.5 PW (10/20/2015)

Lab Sample ID: 660-69919-12

Date Collected: 10/20/15 17:40

Matrix: Water

Date Received: 10/21/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.0	I	10	2.5	ug/L		12/03/15 10:30	11/04/15 21:38	1
Iron	50	U	200	50	ug/L		12/03/15 10:30	11/04/15 21:38	1
Magnesium	99000		80	20	ug/L		12/03/15 10:30	11/04/15 21:38	1
Manganese	8.3		4.0	1.0	ug/L		12/03/15 10:30	11/04/15 21:38	1
Potassium	35000		1000	190	ug/L		12/03/15 10:30	11/04/15 21:38	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		12/03/15 10:30	11/04/15 22:22	1
Iron	50	U	200	50	ug/L		12/03/15 10:30	11/04/15 22:22	1
Magnesium	99000		80	20	ug/L		12/03/15 10:30	11/04/15 22:22	1
Manganese	7.9		4.0	1.0	ug/L		12/03/15 10:30	11/04/15 22:22	1
Potassium	35000		1000	190	ug/L		12/03/15 10:30	11/04/15 22:22	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	3.3		0.050	0.020	mg/L			10/29/15 16:10	1
Total Kjeldahl Nitrogen	4.3		0.50	0.26	mg/L		10/23/15 14:40	10/27/15 10:36	1
Nitrate Nitrite as N	0.018	U	0.050	0.018	mg/L			10/28/15 16:40	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/21/15 15:17	1
Phosphorus, Total	0.26	V	0.10	0.032	mg/L		10/23/15 14:42	10/26/15 13:47	1
Nitrate as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	2000		200	60	mg/L			10/24/15 14:06	100
Sulfate	130		25	7.0	mg/L			11/06/15 14:48	5
Ferrous Iron	67	Q	50	20	ug/L			10/22/15 20:14	1
Nitrogen, Total	4.3		0.50	0.26	mg/L			11/04/15 10:38	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.087		0.010	0.0050	mg/L			10/21/15 19:10	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM8.5 SED (10/20/2015)

Lab Sample ID: 660-69919-13

Date Collected: 10/20/15 09:10

Matrix: Solid

Date Received: 10/21/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	4.8		0.96	0.19	mg/Kg		10/23/15 11:40	10/28/15 23:02	1
Iron	2900		9.6	4.8	mg/Kg		10/23/15 11:40	10/28/15 23:02	1
Magnesium	620		48	2.9	mg/Kg		10/23/15 11:40	10/28/15 23:02	1
Manganese	11		0.96	0.096	mg/Kg		10/23/15 11:40	10/28/15 23:02	1
Potassium	140		96	9.6	mg/Kg		10/23/15 11:40	10/28/15 23:02	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	870	J3	74	39	mg/Kg		10/23/15 18:36	10/27/15 11:10	5
Phosphorus, Total	110		3.0	0.89	mg/Kg		10/23/15 18:39	10/26/15 15:20	1
Nitrogen, Total	0.087		0.0050	0.0026	Percent			11/04/15 10:56	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	3.2		1.0	0.32	mg/Kg			10/22/15 17:46	1
Nitrate Nitrite as N	0.36	I V	1.0	0.36	mg/Kg			10/23/15 19:29	1
Nitrite as N	0.36	U J3	2.0	0.36	mg/Kg			10/23/15 16:58	1
Orthophosphate	1.4		1.0	0.30	mg/Kg			10/23/15 17:06	1
Sulfate	110		97	27	mg/Kg			11/04/15 16:07	1
Chloride	920		39	12	mg/Kg			11/04/15 16:09	1
Nitrate as N	0.36	I	1.0	0.36	mg/Kg			10/23/15 19:29	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 8.0SED (10/21/2015)

Lab Sample ID: 660-69974-1

Date Collected: 10/21/15 09:35

Matrix: Solid

Date Received: 10/22/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.3		0.92	0.18	mg/Kg		10/24/15 12:58	10/29/15 19:24	1
Iron	2300	J3	9.2	4.6	mg/Kg		10/24/15 12:58	10/29/15 19:24	1
Magnesium	560		46	2.8	mg/Kg		10/24/15 12:58	10/29/15 19:24	1
Manganese	7.5		0.92	0.092	mg/Kg		10/24/15 12:58	10/29/15 19:24	1
Potassium	120		92	9.2	mg/Kg		10/24/15 12:58	10/29/15 19:24	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	770		25	13	mg/Kg		10/23/15 18:36	10/27/15 10:53	1
Phosphorus, Total	130		5.0	1.5	mg/Kg		10/23/15 18:39	10/26/15 15:24	1
Nitrogen, Total	0.077		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U J3	1.0	0.32	mg/Kg			11/04/15 18:45	1
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:07	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/23/15 16:58	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/23/15 17:06	1
Sulfate	160		92	26	mg/Kg			11/04/15 16:07	1
Chloride	840		37	11	mg/Kg			11/04/15 16:15	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:07	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 7.5 SED (10/21/2015)

Lab Sample ID: 660-69974-2

Date Collected: 10/21/15 10:00

Matrix: Solid

Date Received: 10/22/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	5.0		0.99	0.20	mg/Kg		10/24/15 12:58	10/29/15 19:51	1
Iron	2400		9.9	5.0	mg/Kg		10/24/15 12:58	10/29/15 19:51	1
Magnesium	500		50	3.0	mg/Kg		10/24/15 12:58	10/29/15 19:51	1
Manganese	8.8		0.99	0.099	mg/Kg		10/24/15 12:58	10/29/15 19:51	1
Potassium	120		99	9.9	mg/Kg		10/24/15 12:58	10/29/15 19:51	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	890		33	17	mg/Kg		10/23/15 18:36	10/27/15 11:15	2
Phosphorus, Total	100		3.3	1.0	mg/Kg		10/23/15 18:39	10/26/15 15:25	1
Nitrogen, Total	0.089		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 18:49	1
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:11	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/23/15 16:58	1
Orthophosphate	0.42	I	1.0	0.30	mg/Kg			10/23/15 17:06	1
Sulfate	110		95	27	mg/Kg			11/04/15 16:17	1
Chloride	860		38	11	mg/Kg			11/04/15 16:09	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:11	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 7.0 SED (10/21/2015)

Lab Sample ID: 660-69974-3

Date Collected: 10/21/15 10:30

Matrix: Solid

Date Received: 10/22/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	6.4		1.0	0.21	mg/Kg		10/24/15 12:58	10/29/15 19:54	1
Iron	3000		10	5.2	mg/Kg		10/24/15 12:58	10/29/15 19:54	1
Magnesium	670		52	3.1	mg/Kg		10/24/15 12:58	10/29/15 19:54	1
Manganese	11		1.0	0.10	mg/Kg		10/24/15 12:58	10/29/15 19:54	1
Potassium	140		100	10	mg/Kg		10/24/15 12:58	10/29/15 19:54	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	1300		61	32	mg/Kg		10/23/15 18:36	10/27/15 11:16	5
Phosphorus, Total	160		2.5	0.74	mg/Kg		10/23/15 18:39	10/26/15 15:26	1
Nitrogen, Total	0.13		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.91	I	1.0	0.32	mg/Kg			11/04/15 18:50	1
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:12	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/23/15 16:58	1
Orthophosphate	0.39	I	1.0	0.30	mg/Kg			10/23/15 17:06	1
Sulfate	140		93	26	mg/Kg			11/04/15 16:17	1
Chloride	960		75	22	mg/Kg			11/04/15 16:47	2
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:12	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 6.5 SED (10/21/2015)

Lab Sample ID: 660-69974-4

Date Collected: 10/21/15 11:05

Matrix: Solid

Date Received: 10/22/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.9		0.91	0.18	mg/Kg		10/24/15 12:58	10/29/15 19:57	1
Iron	1400		9.1	4.6	mg/Kg		10/24/15 12:58	10/29/15 19:57	1
Magnesium	300		46	2.7	mg/Kg		10/24/15 12:58	10/29/15 19:57	1
Manganese	4.4		0.91	0.091	mg/Kg		10/24/15 12:58	10/29/15 19:57	1
Potassium	77	I	91	9.1	mg/Kg		10/24/15 12:58	10/29/15 19:57	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	510		11	5.9	mg/Kg		10/23/15 18:36	10/27/15 10:56	1
Phosphorus, Total	63	V	2.3	0.68	mg/Kg		10/23/15 18:39	10/26/15 15:27	1
Nitrogen, Total	0.051		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 18:51	1
Nitrate Nitrite as N	0.44	I	1.0	0.36	mg/Kg			11/03/15 13:13	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/23/15 16:58	1
Orthophosphate	0.55	I	1.0	0.30	mg/Kg			10/23/15 17:06	1
Sulfate	68	I	95	27	mg/Kg			11/04/15 16:07	1
Chloride	590		38	11	mg/Kg			11/04/15 16:09	1
Nitrate as N	0.44	I	1.0	0.36	mg/Kg			11/03/15 13:13	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 6.0 SED (10/21/2015)

Lab Sample ID: 660-69974-5

Date Collected: 10/21/15 12:00

Matrix: Solid

Date Received: 10/22/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.8		1.0	0.20	mg/Kg		10/24/15 12:58	10/29/15 20:01	1
Iron	1200		10	5.0	mg/Kg		10/24/15 12:58	10/29/15 20:01	1
Magnesium	270		50	3.0	mg/Kg		10/24/15 12:58	10/29/15 20:01	1
Manganese	3.6		1.0	0.10	mg/Kg		10/24/15 12:58	10/29/15 20:01	1
Potassium	65	I	100	10	mg/Kg		10/24/15 12:58	10/29/15 20:01	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	220		12	6.0	mg/Kg		10/23/15 18:36	10/27/15 10:57	1
Phosphorus, Total	74	V	2.3	0.69	mg/Kg		10/23/15 18:39	10/26/15 15:28	1
Nitrogen, Total	0.022		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 18:52	1
Nitrate Nitrite as N	3.0		1.0	0.36	mg/Kg			11/03/15 13:14	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/23/15 16:58	1
Orthophosphate	0.59	I	1.0	0.30	mg/Kg			10/23/15 17:06	1
Sulfate	49	I	96	27	mg/Kg			11/04/15 16:17	1
Chloride	500		39	12	mg/Kg			11/04/15 16:09	1
Nitrate as N	3.0		1.0	0.36	mg/Kg			11/03/15 13:14	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 5.5 SED (10/21/2015)

Lab Sample ID: 660-69974-6

Date Collected: 10/21/15 13:30

Matrix: Solid

Date Received: 10/22/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	4.8		0.97	0.19	mg/Kg		10/24/15 12:58	10/29/15 20:04	1
Iron	2100		9.7	4.8	mg/Kg		10/24/15 12:58	10/29/15 20:04	1
Magnesium	470		48	2.9	mg/Kg		10/24/15 12:58	10/29/15 20:04	1
Manganese	5.8		0.97	0.097	mg/Kg		10/24/15 12:58	10/29/15 20:04	1
Potassium	98		97	9.7	mg/Kg		10/24/15 12:58	10/29/15 20:04	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	1100		28	15	mg/Kg		10/23/15 18:36	10/27/15 11:17	2
Phosphorus, Total	120		2.8	0.85	mg/Kg		10/23/15 18:39	10/26/15 15:35	1
Nitrogen, Total	0.11		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 18:53	1
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:15	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/23/15 16:58	1
Orthophosphate	0.35	I	1.0	0.30	mg/Kg			10/23/15 17:06	1
Sulfate	160		98	27	mg/Kg			11/04/15 16:17	1
Chloride	890		39	12	mg/Kg			11/04/15 16:15	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:15	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 5.0 SED (10/21/2015)

Lab Sample ID: 660-69974-7

Date Collected: 10/21/15 14:00

Matrix: Solid

Date Received: 10/22/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.0		0.93	0.19	mg/Kg		10/24/15 12:58	10/29/15 20:07	1
Iron	810		9.3	4.6	mg/Kg		10/24/15 12:58	10/29/15 20:07	1
Magnesium	170		46	2.8	mg/Kg		10/24/15 12:58	10/29/15 20:07	1
Manganese	1.9		0.93	0.093	mg/Kg		10/24/15 12:58	10/29/15 20:07	1
Potassium	41	I	93	9.3	mg/Kg		10/24/15 12:58	10/29/15 20:07	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	87		20	10	mg/Kg		10/23/15 18:36	10/27/15 11:02	1
Phosphorus, Total	22		4.0	1.2	mg/Kg		10/23/15 18:39	10/26/15 15:37	1
Nitrogen, Total	0.0087		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 18:57	1
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:21	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/23/15 16:58	1
Orthophosphate	1.1		1.0	0.30	mg/Kg			10/23/15 17:06	1
Sulfate	74	I	93	26	mg/Kg			11/04/15 18:51	1
Chloride	400		37	11	mg/Kg			11/04/15 18:58	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:21	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 4.5 SED (10/21/2015)

Lab Sample ID: 660-69974-8

Date Collected: 10/21/15 14:30

Matrix: Solid

Date Received: 10/22/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.4		0.96	0.19	mg/Kg		10/24/15 12:58	10/29/15 20:11	1
Iron	570		9.6	4.8	mg/Kg		10/24/15 12:58	10/29/15 20:11	1
Magnesium	160		48	2.9	mg/Kg		10/24/15 12:58	10/29/15 20:11	1
Manganese	1.4		0.96	0.096	mg/Kg		10/24/15 12:58	10/29/15 20:11	1
Potassium	34	I	96	9.6	mg/Kg		10/24/15 12:58	10/29/15 20:11	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	170		12	6.2	mg/Kg		10/23/15 18:36	10/27/15 11:03	1
Phosphorus, Total	36		2.4	0.72	mg/Kg		10/23/15 18:39	10/26/15 15:38	1
Nitrogen, Total	0.017		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 18:58	1
Nitrate Nitrite as N	0.81	I	1.0	0.36	mg/Kg			11/03/15 13:22	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/23/15 17:12	1
Orthophosphate	0.45	I	1.0	0.30	mg/Kg			10/23/15 17:10	1
Sulfate	76	I	91	26	mg/Kg			11/04/15 18:51	1
Chloride	470		37	11	mg/Kg			11/04/15 18:58	1
Nitrate as N	0.81	I	1.0	0.36	mg/Kg			11/03/15 13:22	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 4.0 SED (10/21/2015)

Lab Sample ID: 660-69974-9

Date Collected: 10/21/15 14:55

Matrix: Solid

Date Received: 10/22/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.1		0.97	0.19	mg/Kg		10/24/15 12:58	10/29/15 20:14	1
Iron	800		9.7	4.9	mg/Kg		10/24/15 12:58	10/29/15 20:14	1
Magnesium	220		49	2.9	mg/Kg		10/24/15 12:58	10/29/15 20:14	1
Manganese	2.1		0.97	0.097	mg/Kg		10/24/15 12:58	10/29/15 20:14	1
Potassium	40	I	97	9.7	mg/Kg		10/24/15 12:58	10/29/15 20:14	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	600		23	12	mg/Kg		10/23/15 18:36	10/27/15 11:19	2
Phosphorus, Total	66		2.3	0.68	mg/Kg		10/23/15 18:39	10/26/15 15:39	1
Nitrogen, Total	0.060		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 18:59	1
Nitrate Nitrite as N	0.49	I	1.0	0.36	mg/Kg			11/03/15 13:23	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/23/15 17:12	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/23/15 17:10	1
Sulfate	94		94	26	mg/Kg			11/04/15 18:51	1
Chloride	560		38	11	mg/Kg			11/04/15 18:58	1
Nitrate as N	0.49	I	1.0	0.36	mg/Kg			11/03/15 13:23	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 3.5 SED (10/21/2015)

Lab Sample ID: 660-69974-10

Date Collected: 10/21/15 15:20

Matrix: Solid

Date Received: 10/22/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.1		1.1	0.21	mg/Kg		10/24/15 12:58	10/29/15 20:18	1
Iron	1200		11	5.3	mg/Kg		10/24/15 12:58	10/29/15 20:18	1
Magnesium	250		53	3.2	mg/Kg		10/24/15 12:58	10/29/15 20:18	1
Manganese	2.4		1.1	0.11	mg/Kg		10/24/15 12:58	10/29/15 20:18	1
Potassium	47	I	110	11	mg/Kg		10/24/15 12:58	10/29/15 20:18	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	670		18	9.3	mg/Kg		10/23/15 18:36	10/27/15 11:20	2
Phosphorus, Total	65		1.8	0.54	mg/Kg		10/23/15 18:39	10/26/15 15:40	1
Nitrogen, Total	0.067		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 19:00	1
Nitrate Nitrite as N	2.2		1.0	0.36	mg/Kg			11/03/15 13:24	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/23/15 17:12	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/23/15 17:10	1
Sulfate	130		95	27	mg/Kg			11/04/15 18:51	1
Chloride	740		38	11	mg/Kg			11/04/15 18:58	1
Nitrate as N	2.2		1.0	0.36	mg/Kg			11/03/15 13:24	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 3.0 SED (10/21/2015)

Lab Sample ID: 660-69974-11

Date Collected: 10/21/15 15:45

Matrix: Solid

Date Received: 10/22/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	8.6		0.99	0.20	mg/Kg		10/24/15 12:58	10/29/15 20:21	1
Iron	2100		9.9	4.9	mg/Kg		10/24/15 12:58	10/29/15 20:21	1
Magnesium	430		49	3.0	mg/Kg		10/24/15 12:58	10/29/15 20:21	1
Manganese	4.3		0.99	0.099	mg/Kg		10/24/15 12:58	10/29/15 20:21	1
Potassium	67	I	99	9.9	mg/Kg		10/24/15 12:58	10/29/15 20:21	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	370		81	42	mg/Kg		11/04/15 15:40	11/06/15 08:18	1
Phosphorus, Total	110		3.4	1.0	mg/Kg		10/23/15 18:39	10/26/15 15:41	1
Nitrogen, Total	0.037		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U J3	1.0	0.32	mg/Kg			11/04/15 19:01	1
Nitrate Nitrite as N	0.36	U J3	1.0	0.36	mg/Kg			11/03/15 13:25	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/23/15 17:12	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/23/15 17:10	1
Sulfate	170		96	27	mg/Kg			11/04/15 18:51	1
Chloride	1100		77	23	mg/Kg			11/04/15 19:24	2
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:25	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 2.5 SW (10/21/2015)

Lab Sample ID: 660-69974-12

Date Collected: 10/21/15 16:30

Matrix: Water

Date Received: 10/22/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		12/03/15 10:30	11/04/15 21:41	1
Iron	93	I	200	50	ug/L		12/03/15 10:30	11/04/15 21:41	1
Magnesium	46000		80	20	ug/L		12/03/15 10:30	11/04/15 21:41	1
Manganese	2.2	I	4.0	1.0	ug/L		12/03/15 10:30	11/04/15 21:41	1
Potassium	14000		1000	190	ug/L		12/03/15 10:30	11/04/15 21:41	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		12/03/15 10:30	11/04/15 22:26	1
Iron	50	U	200	50	ug/L		12/03/15 10:30	11/04/15 22:26	1
Magnesium	46000		80	20	ug/L		12/03/15 10:30	11/04/15 22:26	1
Manganese	1.0	U	4.0	1.0	ug/L		12/03/15 10:30	11/04/15 22:26	1
Potassium	14000		1000	190	ug/L		12/03/15 10:30	11/04/15 22:26	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/29/15 16:11	1
Total Kjeldahl Nitrogen	0.29	I V	0.50	0.26	mg/L		10/23/15 14:40	10/27/15 10:40	1
Nitrate Nitrite as N	0.46		0.050	0.018	mg/L			10/28/15 17:15	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/22/15 16:08	1
Phosphorus, Total	0.057	I V	0.10	0.032	mg/L		10/23/15 14:42	10/26/15 13:50	1
Nitrate as N	0.46		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.46		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	710		40	12	mg/L			10/24/15 14:16	20
Sulfate	100		25	7.0	mg/L			11/06/15 15:40	5
Ferrous Iron	62	Q	50	20	ug/L			10/26/15 14:11	1
Nitrogen, Total	0.75		0.50	0.26	mg/L			11/04/15 10:40	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0070	I	0.010	0.0050	mg/L			10/23/15 13:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 2.5 PW (10/21/2015)

Lab Sample ID: 660-69974-13

Date Collected: 10/21/15 16:30

Matrix: Water

Date Received: 10/22/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		12/03/15 10:30	11/04/15 21:45	1
Iron	51	I	200	50	ug/L		12/03/15 10:30	11/04/15 21:45	1
Magnesium	59000		80	20	ug/L		12/03/15 10:30	11/04/15 21:45	1
Manganese	10		4.0	1.0	ug/L		12/03/15 10:30	11/04/15 21:45	1
Potassium	21000		1000	190	ug/L		12/03/15 10:30	11/04/15 21:45	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		12/03/15 10:30	11/04/15 22:29	1
Iron	50	U	200	50	ug/L		12/03/15 10:30	11/04/15 22:29	1
Magnesium	57000		80	20	ug/L		12/03/15 10:30	11/04/15 22:29	1
Manganese	1.0	U	4.0	1.0	ug/L		12/03/15 10:30	11/04/15 22:29	1
Potassium	20000		1000	190	ug/L		12/03/15 10:30	11/04/15 22:29	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.22		0.050	0.020	mg/L			11/05/15 16:23	1
Total Kjeldahl Nitrogen	0.66	V	0.50	0.26	mg/L		10/23/15 14:40	10/27/15 10:43	1
Nitrate Nitrite as N	0.030	I V	0.050	0.018	mg/L			10/28/15 17:16	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/22/15 16:09	1
Phosphorus, Total	0.11	V	0.10	0.032	mg/L		10/23/15 14:42	10/26/15 13:53	1
Nitrate as N	0.030		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.030		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	1100		100	30	mg/L			10/24/15 14:16	50
Sulfate	120		50	14	mg/L			11/06/15 15:18	10
Ferrous Iron	120	Q	50	20	ug/L			10/26/15 14:11	1
Nitrogen, Total	0.69		0.50	0.26	mg/L			11/04/15 10:40	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.066		0.010	0.0050	mg/L			10/23/15 13:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM SED 2.5 (10/21/2015)

Lab Sample ID: 660-69974-14

Date Collected: 10/21/15 16:20

Matrix: Solid

Date Received: 10/22/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	3.4		0.99	0.20	mg/Kg		10/24/15 12:58	10/29/15 20:34	1
Iron	1100		9.9	5.0	mg/Kg		10/24/15 12:58	10/29/15 20:34	1
Magnesium	210		50	3.0	mg/Kg		10/24/15 12:58	10/29/15 20:34	1
Manganese	2.2		0.99	0.099	mg/Kg		10/24/15 12:58	10/29/15 20:34	1
Potassium	34	I	99	9.9	mg/Kg		10/24/15 12:58	10/29/15 20:34	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	350		17	8.7	mg/Kg		10/23/15 18:36	10/27/15 11:07	1
Phosphorus, Total	77		3.3	1.0	mg/Kg		10/23/15 18:39	10/26/15 15:42	1
Nitrogen, Total	0.035		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 19:04	1
Nitrate Nitrite as N	4.4		1.0	0.36	mg/Kg			11/03/15 13:28	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/23/15 17:12	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/23/15 17:10	1
Sulfate	78	I	92	26	mg/Kg			11/04/15 18:51	1
Chloride	530		37	11	mg/Kg			11/04/15 18:58	1
Nitrate as N	4.4		1.0	0.36	mg/Kg			11/03/15 13:28	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM1.5 SW(10/22/2015)

Lab Sample ID: 660-70002-1

Date Collected: 10/22/15 10:10

Matrix: Water

Date Received: 10/23/15 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		12/03/15 10:30	11/04/15 21:48	1
Iron	120	I	200	50	ug/L		12/03/15 10:30	11/04/15 21:48	1
Magnesium	60000		80	20	ug/L		12/03/15 10:30	11/04/15 21:48	1
Manganese	4.0		4.0	1.0	ug/L		12/03/15 10:30	11/04/15 21:48	1
Potassium	19000		1000	190	ug/L		12/03/15 10:30	11/04/15 21:48	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		12/03/15 10:30	11/04/15 22:33	1
Iron	50	U	200	50	ug/L		12/03/15 10:30	11/04/15 22:33	1
Magnesium	60000		80	20	ug/L		12/03/15 10:30	11/04/15 22:33	1
Manganese	1.0	U	4.0	1.0	ug/L		12/03/15 10:30	11/04/15 22:33	1
Potassium	19000		1000	190	ug/L		12/03/15 10:30	11/04/15 22:33	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			11/05/15 16:24	1
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/27/15 15:30	10/28/15 16:43	1
Nitrate Nitrite as N	0.54		0.050	0.018	mg/L			10/28/15 17:17	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/23/15 16:28	1
Phosphorus, Total	0.032	U	0.10	0.032	mg/L		10/27/15 15:32	10/29/15 11:58	1
Nitrate as N	0.54		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.54		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	380		100	30	mg/L			10/31/15 14:45	50
Sulfate	140		50	14	mg/L			11/06/15 17:19	10
Ferrous Iron	80	Q	50	20	ug/L			10/26/15 14:11	1
Nitrogen, Total	0.54		0.50	0.26	mg/L			11/04/15 10:40	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.014		0.010	0.0050	mg/L			10/23/15 13:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM1.5 PW(10/22/2015)

Lab Sample ID: 660-70002-2

Date Collected: 10/22/15 10:10

Matrix: Water

Date Received: 10/23/15 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	I	10	2.5	ug/L		12/03/15 10:30	11/04/15 21:52	1
Iron	50	U	200	50	ug/L		12/03/15 10:30	11/04/15 21:52	1
Magnesium	78000		80	20	ug/L		12/03/15 10:30	11/04/15 21:52	1
Manganese	3.9	I	4.0	1.0	ug/L		12/03/15 10:30	11/04/15 21:52	1
Potassium	26000		1000	190	ug/L		12/03/15 10:30	11/04/15 21:52	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		11/03/15 10:46	11/04/15 22:36	1
Iron	50	U	200	50	ug/L		11/03/15 10:46	11/04/15 22:36	1
Magnesium	78000		80	20	ug/L		11/03/15 10:46	11/04/15 22:36	1
Manganese	3.5	I	4.0	1.0	ug/L		11/03/15 10:46	11/04/15 22:36	1
Potassium	26000		1000	190	ug/L		11/03/15 10:46	11/04/15 22:36	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	1.1		0.050	0.020	mg/L			11/05/15 16:25	1
Total Kjeldahl Nitrogen	1.6		0.50	0.26	mg/L		10/27/15 15:30	10/28/15 16:44	1
Nitrate Nitrite as N	0.15	V	0.050	0.018	mg/L			10/28/15 17:19	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/23/15 16:32	1
Phosphorus, Total	0.20		0.10	0.032	mg/L		10/27/15 15:32	10/29/15 11:59	1
Nitrate as N	0.15		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.15		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	380		100	30	mg/L			10/31/15 14:45	50
Sulfate	170		50	14	mg/L			11/06/15 17:19	10
Ferrous Iron	64	Q	50	20	ug/L			10/26/15 14:11	1
Nitrogen, Total	1.8		0.50	0.26	mg/L			11/04/15 10:40	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.15		0.010	0.0050	mg/L			10/23/15 13:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW8.5SW(10/22/2015)

Lab Sample ID: 660-70002-3

Date Collected: 10/22/15 17:05

Matrix: Water

Date Received: 10/23/15 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		11/04/15 07:41	11/04/15 14:26	1
Iron	50	U	200	50	ug/L		11/04/15 07:41	11/04/15 14:26	1
Magnesium	6600		80	20	ug/L		11/04/15 07:41	11/04/15 14:26	1
Manganese	1.0	U	4.0	1.0	ug/L		11/04/15 07:41	11/04/15 14:26	1
Potassium	520	I	1000	190	ug/L		11/04/15 07:41	11/04/15 14:26	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		11/04/15 08:13	11/04/15 14:56	1
Iron	50	U	200	50	ug/L		11/04/15 08:13	11/04/15 14:56	1
Magnesium	6700		80	20	ug/L		11/04/15 08:13	11/04/15 14:56	1
Manganese	1.0	U	4.0	1.0	ug/L		11/04/15 08:13	11/04/15 14:56	1
Potassium	480	I	1000	190	ug/L		11/04/15 08:13	11/04/15 14:56	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			11/05/15 16:26	1
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/27/15 15:30	10/28/15 16:36	1
Nitrate Nitrite as N	0.71		0.050	0.018	mg/L			10/28/15 17:20	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/23/15 16:33	1
Phosphorus, Total	0.032	U	0.10	0.032	mg/L		10/27/15 15:32	10/29/15 11:51	1
Nitrate as N	0.71		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.71		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	15		2.0	0.60	mg/L			10/31/15 14:14	1
Sulfate	13		5.0	1.4	mg/L			11/06/15 16:47	1
Ferrous Iron	34	I Q	50	20	ug/L			10/26/15 14:11	1
Nitrogen, Total	0.71		0.50	0.26	mg/L			11/04/15 10:40	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0060	I	0.010	0.0050	mg/L			10/23/15 13:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW8.5PW(10/22/2015)

Lab Sample ID: 660-70002-4

Date Collected: 10/22/15 17:05

Matrix: Water

Date Received: 10/23/15 08:00

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.7	I	10	2.5	ug/L		11/04/15 07:41	11/04/15 14:29	1
Iron	50	U	200	50	ug/L		11/04/15 07:41	11/04/15 14:29	1
Magnesium	58000		80	20	ug/L		11/04/15 07:41	11/04/15 14:29	1
Manganese	1.0	U	4.0	1.0	ug/L		11/04/15 07:41	11/04/15 14:29	1
Potassium	18000		1000	190	ug/L		11/04/15 07:41	11/04/15 14:29	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.9	I	10	2.5	ug/L		11/04/15 08:13	11/04/15 14:59	1
Iron	50	U	200	50	ug/L		11/04/15 08:13	11/04/15 14:59	1
Magnesium	59000		80	20	ug/L		11/04/15 08:13	11/04/15 14:59	1
Manganese	1.0	U	4.0	1.0	ug/L		11/04/15 08:13	11/04/15 14:59	1
Potassium	18000		1000	190	ug/L		11/04/15 08:13	11/04/15 14:59	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	2.7		0.050	0.020	mg/L			11/05/15 16:31	1
Total Kjeldahl Nitrogen	3.6		0.50	0.26	mg/L		10/27/15 15:30	10/28/15 16:37	1
Nitrate Nitrite as N	0.068	V	0.050	0.018	mg/L			10/28/15 17:26	1
Nitrite as N	0.0050	U J3	0.010	0.0050	mg/L			10/23/15 16:34	1
Phosphorus, Total	0.27		0.10	0.032	mg/L		10/27/15 15:32	10/29/15 11:52	1
Nitrate as N	0.068		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.068		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	1100	J3	200	60	mg/L			10/31/15 14:45	100
Sulfate	16		5.0	1.4	mg/L			11/06/15 16:47	1
Ferrous Iron	92	Q	50	20	ug/L			10/26/15 14:11	1
Nitrogen, Total	3.7		0.50	0.26	mg/L			11/04/15 10:40	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.11		0.010	0.0050	mg/L			10/23/15 13:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM2.0SED(10/22/2015)

Lab Sample ID: 660-70002-5

Date Collected: 10/22/15 09:50

Matrix: Solid

Date Received: 10/23/15 08:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.8		0.94	0.19	mg/Kg		10/31/15 13:21	11/03/15 19:55	1
Iron	480		9.4	4.7	mg/Kg		10/31/15 13:21	11/03/15 19:55	1
Magnesium	95		47	2.8	mg/Kg		10/31/15 13:21	11/03/15 19:55	1
Manganese	0.94		0.94	0.094	mg/Kg		10/31/15 13:21	11/03/15 19:55	1
Potassium	32	I	94	9.4	mg/Kg		10/31/15 13:21	11/03/15 19:55	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	490	J3	71	37	mg/Kg		10/27/15 15:37	10/29/15 10:21	1
Phosphorus, Total	70	J3	3.6	1.1	mg/Kg		10/27/15 15:39	10/29/15 14:20	1
Nitrogen, Total	0.050		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	1.1		1.0	0.32	mg/Kg			11/04/15 19:06	1
Nitrate Nitrite as N	7.6		1.0	0.36	mg/Kg			11/03/15 13:29	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/24/15 13:23	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/24/15 13:31	1
Sulfate	27	U	95	27	mg/Kg			11/04/15 18:51	1
Chloride	24	I	38	11	mg/Kg			11/04/15 18:58	1
Nitrate as N	7.6		1.0	0.36	mg/Kg			11/03/15 13:29	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM1.5SED(10/22/2015)

Lab Sample ID: 660-70002-6

Date Collected: 10/22/15 10:30

Matrix: Solid

Date Received: 10/23/15 08:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	17		0.93	0.19	mg/Kg		10/31/15 13:21	11/03/15 19:59	1
Iron	4200		9.3	4.6	mg/Kg		10/31/15 13:21	11/03/15 19:59	1
Magnesium	540		46	2.8	mg/Kg		10/31/15 13:21	11/03/15 19:59	1
Manganese	9.0		0.93	0.093	mg/Kg		10/31/15 13:21	11/03/15 19:59	1
Potassium	62	I	93	9.3	mg/Kg		10/31/15 13:21	11/03/15 19:59	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	930		130	69	mg/Kg		10/27/15 15:37	10/29/15 10:37	2
Phosphorus, Total	130		3.3	1.0	mg/Kg		10/27/15 15:39	10/29/15 14:24	1
Nitrogen, Total	0.093		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 19:07	1
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:30	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/24/15 13:23	1
Orthophosphate	0.49	I J3	1.0	0.30	mg/Kg			10/24/15 13:31	1
Sulfate	90	I	98	27	mg/Kg			11/04/15 18:51	1
Chloride	870		39	12	mg/Kg			11/04/15 18:58	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM1.0SED(10/22/2015)

Lab Sample ID: 660-70002-7

Date Collected: 10/22/15 12:30

Matrix: Solid

Date Received: 10/23/15 08:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	1.5		0.97	0.19	mg/Kg		10/31/15 13:21	11/03/15 20:02	1
Iron	1200		9.7	4.8	mg/Kg		10/31/15 13:21	11/03/15 20:02	1
Magnesium	170		48	2.9	mg/Kg		10/31/15 13:21	11/03/15 20:02	1
Manganese	1.9		0.97	0.097	mg/Kg		10/31/15 13:21	11/03/15 20:02	1
Potassium	32	I	97	9.7	mg/Kg		10/31/15 13:21	11/03/15 20:02	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	360		42	22	mg/Kg		10/27/15 15:37	10/29/15 10:25	1
Phosphorus, Total	65		2.1	0.64	mg/Kg		10/27/15 15:39	10/29/15 14:25	1
Nitrogen, Total	0.036		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 19:10	1
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:36	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/24/15 13:23	1
Orthophosphate	1.3		1.0	0.30	mg/Kg			10/24/15 13:31	1
Sulfate	25	U	89	25	mg/Kg			11/04/15 19:05	1
Chloride	380		36	11	mg/Kg			11/04/15 18:58	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:36	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW9.5SED(10/22/2015)

Lab Sample ID: 660-70002-8

Date Collected: 10/22/15 15:20

Matrix: Solid

Date Received: 10/23/15 08:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.19	I	0.93	0.19	mg/Kg		10/31/15 13:21	11/03/15 20:05	1
Iron	75		9.3	4.7	mg/Kg		10/31/15 13:21	11/03/15 20:05	1
Magnesium	26	I	47	2.8	mg/Kg		10/31/15 13:21	11/03/15 20:05	1
Manganese	0.45	I	0.93	0.093	mg/Kg		10/31/15 13:21	11/03/15 20:05	1
Potassium	12	I	93	9.3	mg/Kg		10/31/15 13:21	11/03/15 20:05	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	96		48	25	mg/Kg		10/27/15 15:37	10/29/15 10:26	1
Phosphorus, Total	34		2.4	0.71	mg/Kg		10/27/15 15:39	10/29/15 14:26	1
Nitrogen, Total	0.0096		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 19:11	1
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:37	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/24/15 13:23	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/24/15 13:31	1
Sulfate	26	U	91	26	mg/Kg			11/04/15 19:05	1
Chloride	150		36	11	mg/Kg			11/04/15 18:58	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:37	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW9.0SED(10/22/2015)

Lab Sample ID: 660-70002-9

Date Collected: 10/22/15 15:50

Matrix: Solid

Date Received: 10/23/15 08:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.20	U	0.99	0.20	mg/Kg		10/31/15 13:21	11/03/15 20:09	1
Iron	38		9.9	5.0	mg/Kg		10/31/15 13:21	11/03/15 20:09	1
Magnesium	18	I	50	3.0	mg/Kg		10/31/15 13:21	11/03/15 20:09	1
Manganese	0.23	I	0.99	0.099	mg/Kg		10/31/15 13:21	11/03/15 20:09	1
Potassium	11	I	99	9.9	mg/Kg		10/31/15 13:21	11/03/15 20:09	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	130		56	29	mg/Kg		10/27/15 15:37	10/29/15 10:27	1
Phosphorus, Total	46		2.8	0.84	mg/Kg		10/27/15 15:39	10/29/15 14:27	1
Nitrogen, Total	0.013		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 19:12	1
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:38	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/24/15 13:23	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/24/15 13:31	1
Sulfate	27	U	95	27	mg/Kg			11/04/15 19:05	1
Chloride	74		38	11	mg/Kg			11/04/15 19:12	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:38	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW8.5SED(10/22/2015)

Lab Sample ID: 660-70002-10

Date Collected: 10/22/15 16:35

Matrix: Solid

Date Received: 10/23/15 08:00

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.19	U	0.96	0.19	mg/Kg		10/31/15 13:21	11/03/15 20:12	1
Iron	59		9.6	4.8	mg/Kg		10/31/15 13:21	11/03/15 20:12	1
Magnesium	14	I	48	2.9	mg/Kg		10/31/15 13:21	11/03/15 20:12	1
Manganese	0.23	I	0.96	0.096	mg/Kg		10/31/15 13:21	11/03/15 20:12	1
Potassium	11	I	96	9.6	mg/Kg		10/31/15 13:21	11/03/15 20:12	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	150		30	16	mg/Kg		10/27/15 15:37	10/29/15 10:28	1
Phosphorus, Total	18		1.5	0.45	mg/Kg		10/27/15 15:39	10/29/15 14:28	1
Nitrogen, Total	0.015		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 19:13	1
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:39	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/24/15 13:23	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/24/15 14:08	1
Sulfate	28	U	99	28	mg/Kg			11/04/15 19:05	1
Chloride	29	I	40	12	mg/Kg			11/04/15 19:12	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:39	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW7.5SW(10/23/2015)

Lab Sample ID: 660-70026-1

Date Collected: 10/23/15 10:30

Matrix: Water

Date Received: 10/24/15 06:15

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		11/04/15 07:41	11/04/15 14:33	1
Iron	50	U	200	50	ug/L		11/04/15 07:41	11/04/15 14:33	1
Magnesium	6500		80	20	ug/L		11/04/15 07:41	11/04/15 14:33	1
Manganese	1.0	U	4.0	1.0	ug/L		11/04/15 07:41	11/04/15 14:33	1
Potassium	530	I	1000	190	ug/L		11/04/15 07:41	11/04/15 14:33	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		11/04/15 08:13	11/04/15 15:03	1
Iron	50	U	200	50	ug/L		11/04/15 08:13	11/04/15 15:03	1
Magnesium	6500		80	20	ug/L		11/04/15 08:13	11/04/15 15:03	1
Manganese	1.0	U	4.0	1.0	ug/L		11/04/15 08:13	11/04/15 15:03	1
Potassium	500	I	1000	190	ug/L		11/04/15 08:13	11/04/15 15:03	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			11/05/15 16:32	1
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/27/15 15:30	10/28/15 16:38	1
Nitrate Nitrite as N	0.84		0.050	0.018	mg/L			10/29/15 11:52	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/24/15 13:53	1
Phosphorus, Total	0.032	U	0.10	0.032	mg/L		10/27/15 15:32	10/29/15 11:53	1
Nitrate as N	0.84		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.84		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	12		2.0	0.60	mg/L			10/31/15 14:14	1
Sulfate	12		5.0	1.4	mg/L			11/06/15 17:16	1
Ferrous Iron	49	I Q	50	20	ug/L			10/29/15 19:04	1
Nitrogen, Total	0.84		0.50	0.26	mg/L			11/04/15 10:36	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0050	U	0.010	0.0050	mg/L			10/24/15 13:55	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW7.5 PW(10/23/2015)

Lab Sample ID: 660-70026-2

Date Collected: 10/23/15 10:30

Matrix: Water

Date Received: 10/24/15 06:15

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		11/04/15 07:41	11/04/15 14:36	1
Iron	2200		200	50	ug/L		11/04/15 07:41	11/04/15 14:36	1
Magnesium	7400		80	20	ug/L		11/04/15 07:41	11/04/15 14:36	1
Manganese	50		4.0	1.0	ug/L		11/04/15 07:41	11/04/15 14:36	1
Potassium	6800		1000	190	ug/L		11/04/15 07:41	11/04/15 14:36	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		11/04/15 08:13	11/04/15 15:06	1
Iron	50	U	200	50	ug/L		11/04/15 08:13	11/04/15 15:06	1
Magnesium	7500		80	20	ug/L		11/04/15 08:13	11/04/15 15:06	1
Manganese	46		4.0	1.0	ug/L		11/04/15 08:13	11/04/15 15:06	1
Potassium	6700		1000	190	ug/L		11/04/15 08:13	11/04/15 15:06	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	30		0.50	0.20	mg/L			11/05/15 16:54	10
Total Kjeldahl Nitrogen	34		1.0	0.52	mg/L		10/27/15 15:30	10/28/15 16:53	2
Nitrate Nitrite as N	0.018	U	0.050	0.018	mg/L			10/29/15 11:53	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/24/15 13:59	1
Phosphorus, Total	5.1		0.10	0.032	mg/L		10/27/15 15:32	10/29/15 11:55	1
Nitrate as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	18		2.0	0.60	mg/L			10/31/15 14:14	1
Sulfate	1.4	U	5.0	1.4	mg/L			11/06/15 17:16	1
Ferrous Iron	2400	Q	250	100	ug/L			10/29/15 19:04	5
Nitrogen, Total	34		0.50	0.26	mg/L			11/04/15 10:36	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	6.4		0.10	0.050	mg/L			10/24/15 13:55	10

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW6.5SW(10/23/2015)

Lab Sample ID: 660-70026-3

Date Collected: 10/23/15 12:25

Matrix: Water

Date Received: 10/24/15 06:15

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		11/04/15 07:41	11/04/15 14:40	1
Iron	50	U	200	50	ug/L		11/04/15 07:41	11/04/15 14:40	1
Magnesium	6300		80	20	ug/L		11/04/15 07:41	11/04/15 14:40	1
Manganese	1.0	U	4.0	1.0	ug/L		11/04/15 07:41	11/04/15 14:40	1
Potassium	460	I	1000	190	ug/L		11/04/15 07:41	11/04/15 14:40	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		11/04/15 08:13	11/04/15 15:09	1
Iron	50	U	200	50	ug/L		11/04/15 08:13	11/04/15 15:09	1
Magnesium	6300		80	20	ug/L		11/04/15 08:13	11/04/15 15:09	1
Manganese	1.0	U	4.0	1.0	ug/L		11/04/15 08:13	11/04/15 15:09	1
Potassium	410	I	1000	190	ug/L		11/04/15 08:13	11/04/15 15:09	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			11/05/15 16:37	1
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/27/15 15:30	10/28/15 16:40	1
Nitrate Nitrite as N	0.82		0.050	0.018	mg/L			10/29/15 11:54	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/24/15 14:01	1
Phosphorus, Total	0.032	U	0.10	0.032	mg/L		10/27/15 15:32	10/29/15 11:56	1
Nitrate as N	0.82		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.82		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	11		2.0	0.60	mg/L			10/31/15 14:14	1
Sulfate	12		5.0	1.4	mg/L			11/06/15 17:16	1
Ferrous Iron	49	I Q	50	20	ug/L			10/29/15 19:04	1
Nitrogen, Total	0.82		0.50	0.26	mg/L			11/04/15 10:36	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.10		0.010	0.0050	mg/L			10/24/15 13:55	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW6.5PW(10/23/2015)

Lab Sample ID: 660-70026-4

Date Collected: 10/23/15 12:25

Matrix: Water

Date Received: 10/24/15 06:15

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		11/04/15 07:41	11/04/15 14:49	1
Iron	370		200	50	ug/L		11/04/15 07:41	11/04/15 14:49	1
Magnesium	6300		80	20	ug/L		11/04/15 07:41	11/04/15 14:49	1
Manganese	4.5		4.0	1.0	ug/L		11/04/15 07:41	11/04/15 14:49	1
Potassium	1100		1000	190	ug/L		11/04/15 07:41	11/04/15 14:49	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		11/05/15 08:34	11/05/15 14:25	1
Iron	50	U	200	50	ug/L		11/05/15 08:34	11/05/15 14:25	1
Magnesium	6600		80	20	ug/L		11/05/15 08:34	11/05/15 14:25	1
Manganese	4.0		4.0	1.0	ug/L		11/05/15 08:34	11/05/15 14:25	1
Potassium	1000		1000	190	ug/L		11/05/15 08:34	11/05/15 14:25	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	2.0		0.050	0.020	mg/L			11/05/15 16:38	1
Total Kjeldahl Nitrogen	2.5		0.50	0.26	mg/L		10/27/15 15:30	10/28/15 16:41	1
Nitrate Nitrite as N	0.11		0.050	0.018	mg/L			10/29/15 11:57	1
Nitrite as N	0.019		0.010	0.0050	mg/L			10/24/15 14:02	1
Phosphorus, Total	0.31		0.10	0.032	mg/L		10/27/15 15:32	10/29/15 11:57	1
Nitrate as N	0.091		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.11		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	14		2.0	0.60	mg/L			10/31/15 14:14	1
Sulfate	4.8	I	5.0	1.4	mg/L			11/06/15 17:16	1
Ferrous Iron	400	Q	50	20	ug/L			10/29/15 19:04	1
Nitrogen, Total	2.6		0.50	0.26	mg/L			11/04/15 10:36	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.34		0.010	0.0050	mg/L			10/24/15 13:55	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW8.0SED(10/23/2015)

Lab Sample ID: 660-70026-5

Date Collected: 10/23/15 09:30

Matrix: Solid

Date Received: 10/24/15 06:15

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.20	U	0.99	0.20	mg/Kg		10/31/15 13:21	11/03/15 20:16	1
Iron	75		9.9	4.9	mg/Kg		10/31/15 13:21	11/03/15 20:16	1
Magnesium	23	I	49	3.0	mg/Kg		10/31/15 13:21	11/03/15 20:16	1
Manganese	0.31	I	0.99	0.099	mg/Kg		10/31/15 13:21	11/03/15 20:16	1
Potassium	9.9	U	99	9.9	mg/Kg		10/31/15 13:21	11/03/15 20:16	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	95		68	36	mg/Kg		10/27/15 15:37	10/29/15 10:32	1
Phosphorus, Total	19		3.4	1.0	mg/Kg		10/27/15 15:39	10/29/15 14:31	1
Nitrogen, Total	0.0095		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 19:14	1
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:40	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/28/15 07:52	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/27/15 17:57	1
Sulfate	28	U	99	28	mg/Kg			11/04/15 19:05	1
Chloride	360		40	12	mg/Kg			11/04/15 19:12	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:40	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW7.5SED(10/23/2015)

Lab Sample ID: 660-70026-6

Date Collected: 10/23/15 10:05

Matrix: Solid

Date Received: 10/24/15 06:15

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.20	U	1.0	0.20	mg/Kg		10/31/15 13:21	11/03/15 20:19	1
Iron	58		10	5.0	mg/Kg		10/31/15 13:21	11/03/15 20:19	1
Magnesium	18	I	50	3.0	mg/Kg		10/31/15 13:21	11/03/15 20:19	1
Manganese	0.28	I	1.0	0.10	mg/Kg		10/31/15 13:21	11/03/15 20:19	1
Potassium	11	I	100	10	mg/Kg		10/31/15 13:21	11/03/15 20:19	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	78		48	25	mg/Kg		10/29/15 16:40	10/30/15 16:37	1
Phosphorus, Total	16	V	2.4	0.71	mg/Kg		10/29/15 16:43	10/30/15 13:53	1
Nitrogen, Total	0.0078		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 19:16	1
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:41	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/28/15 07:52	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/27/15 17:57	1
Sulfate	25	U	90	25	mg/Kg			11/04/15 19:05	1
Chloride	11	U	36	11	mg/Kg			11/04/15 19:12	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:41	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW7.0SED(10/23/2015)

Lab Sample ID: 660-70026-7

Date Collected: 10/23/15 11:15

Matrix: Solid

Date Received: 10/24/15 06:15

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.20	U	0.99	0.20	mg/Kg		10/31/15 13:21	11/03/15 20:22	1
Iron	69		9.9	5.0	mg/Kg		10/31/15 13:21	11/03/15 20:22	1
Magnesium	31	I	50	3.0	mg/Kg		10/31/15 13:21	11/03/15 20:22	1
Manganese	0.24	I	0.99	0.099	mg/Kg		10/31/15 13:21	11/03/15 20:22	1
Potassium	9.9	U	99	9.9	mg/Kg		10/31/15 13:21	11/03/15 20:22	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	220		52	27	mg/Kg		10/27/15 15:37	10/29/15 10:34	1
Phosphorus, Total	26		2.6	0.77	mg/Kg		10/27/15 15:39	10/29/15 14:34	1
Nitrogen, Total	0.022		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 19:30	1
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:50	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/28/15 07:52	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/27/15 18:00	1
Sulfate	25	U	90	25	mg/Kg			11/04/15 19:05	1
Chloride	61		36	11	mg/Kg			11/04/15 19:12	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:50	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW6.5SED(10/23/2015)

Lab Sample ID: 660-70026-8

Date Collected: 10/23/15 11:40

Matrix: Solid

Date Received: 10/24/15 06:15

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.19	U	0.97	0.19	mg/Kg		10/31/15 13:21	11/03/15 20:26	1
Iron	70		9.7	4.8	mg/Kg		10/31/15 13:21	11/03/15 20:26	1
Magnesium	25	I	48	2.9	mg/Kg		10/31/15 13:21	11/03/15 20:26	1
Manganese	0.38	I	0.97	0.097	mg/Kg		10/31/15 13:21	11/03/15 20:26	1
Potassium	12	I	97	9.7	mg/Kg		10/31/15 13:21	11/03/15 20:26	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	130		65	34	mg/Kg		10/27/15 15:37	10/29/15 10:35	1
Phosphorus, Total	19		3.2	0.97	mg/Kg		10/27/15 15:39	10/29/15 14:35	1
Nitrogen, Total	0.013		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 19:33	1
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:53	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/28/15 07:53	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/27/15 18:00	1
Sulfate	26	U	92	26	mg/Kg			11/04/15 19:05	1
Chloride	22	I	37	11	mg/Kg			11/04/15 19:12	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:53	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW6.0SED(10/23/2015)

Lab Sample ID: 660-70026-9

Date Collected: 10/23/15 13:55

Matrix: Solid

Date Received: 10/24/15 06:15

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.18	U	0.92	0.18	mg/Kg		10/31/15 13:21	11/03/15 20:39	1
Iron	26		9.2	4.6	mg/Kg		10/31/15 13:21	11/03/15 20:39	1
Magnesium	12	I	46	2.8	mg/Kg		10/31/15 13:21	11/03/15 20:39	1
Manganese	0.23	I	0.92	0.092	mg/Kg		10/31/15 13:21	11/03/15 20:39	1
Potassium	11	I	92	9.2	mg/Kg		10/31/15 13:21	11/03/15 20:39	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	150		40	21	mg/Kg		10/27/15 15:37	10/29/15 10:36	1
Phosphorus, Total	21		2.0	0.60	mg/Kg		10/27/15 15:39	10/29/15 14:36	1
Nitrogen, Total	0.015		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 19:35	1
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:54	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/28/15 07:52	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/27/15 17:57	1
Sulfate	25	U	90	25	mg/Kg			11/04/15 19:18	1
Chloride	11	U	36	11	mg/Kg			11/04/15 19:12	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:54	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW5.5 SED (10/26/2015)

Lab Sample ID: 660-70053-1

Date Collected: 10/26/15 10:15

Matrix: Solid

Date Received: 10/27/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.18	U	0.92	0.18	mg/Kg		10/31/15 13:21	11/03/15 20:43	1
Iron	34		9.2	4.6	mg/Kg		10/31/15 13:21	11/03/15 20:43	1
Magnesium	12	I	46	2.8	mg/Kg		10/31/15 13:21	11/03/15 20:43	1
Manganese	0.16	I	0.92	0.092	mg/Kg		10/31/15 13:21	11/03/15 20:43	1
Potassium	10	I	92	9.2	mg/Kg		10/31/15 13:21	11/03/15 20:43	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	100		98	51	mg/Kg		10/28/15 17:51	10/30/15 15:02	1
Phosphorus, Total	20		4.9	1.5	mg/Kg		10/28/15 17:56	10/29/15 17:13	1
Nitrogen, Total	0.010		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 19:36	1
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:55	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/28/15 17:45	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/28/15 17:44	1
Sulfate	27	U	97	27	mg/Kg			11/04/15 19:18	1
Chloride	12	I	39	12	mg/Kg			11/04/15 19:12	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:55	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW5.25 SED (10/26/2015)

Lab Sample ID: 660-70053-2

Date Collected: 10/26/15 11:40

Matrix: Solid

Date Received: 10/27/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.18	U	0.92	0.18	mg/Kg		10/31/15 13:21	11/03/15 20:46	1
Iron	41		9.2	4.6	mg/Kg		10/31/15 13:21	11/03/15 20:46	1
Magnesium	11	I	46	2.8	mg/Kg		10/31/15 13:21	11/03/15 20:46	1
Manganese	0.20	I	0.92	0.092	mg/Kg		10/31/15 13:21	11/03/15 20:46	1
Potassium	9.2	U	92	9.2	mg/Kg		10/31/15 13:21	11/03/15 20:46	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	140		83	43	mg/Kg		10/28/15 17:51	10/30/15 15:03	1
Phosphorus, Total	20		4.2	1.3	mg/Kg		10/28/15 17:56	10/29/15 17:14	1
Nitrogen, Total	0.014		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	1.8		1.0	0.32	mg/Kg			11/04/15 19:37	1
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:56	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/28/15 17:45	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/28/15 17:44	1
Sulfate	24	U	87	24	mg/Kg			11/04/15 19:18	1
Chloride	12	I	35	10	mg/Kg			11/04/15 19:12	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:56	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW5.0 SED (10/26/2015)

Lab Sample ID: 660-70053-3

Date Collected: 10/26/15 13:40

Matrix: Solid

Date Received: 10/27/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.19	U	0.97	0.19	mg/Kg		10/31/15 13:21	11/03/15 20:50	1
Iron	35		9.7	4.8	mg/Kg		10/31/15 13:21	11/03/15 20:50	1
Magnesium	18	I	48	2.9	mg/Kg		10/31/15 13:21	11/03/15 20:50	1
Manganese	0.22	I	0.97	0.097	mg/Kg		10/31/15 13:21	11/03/15 20:50	1
Potassium	9.7	U	97	9.7	mg/Kg		10/31/15 13:21	11/03/15 20:50	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	65	I	89	46	mg/Kg		10/28/15 17:51	10/30/15 15:05	1
Phosphorus, Total	14		4.5	1.3	mg/Kg		10/28/15 17:56	10/29/15 17:15	1
Nitrogen, Total	0.0065		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 19:38	1
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:57	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/28/15 17:45	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/28/15 17:44	1
Sulfate	27	U	97	27	mg/Kg			11/04/15 19:18	1
Chloride	12	U	39	12	mg/Kg			11/04/15 19:12	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:57	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW.4.5 SED (10/26/2015)

Lab Sample ID: 660-70053-4

Date Collected: 10/26/15 14:10

Matrix: Solid

Date Received: 10/27/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.19	U	0.97	0.19	mg/Kg		10/31/15 13:21	11/03/15 20:53	1
Iron	29		9.7	4.8	mg/Kg		10/31/15 13:21	11/03/15 20:53	1
Magnesium	17	I	48	2.9	mg/Kg		10/31/15 13:21	11/03/15 20:53	1
Manganese	0.21	I	0.97	0.097	mg/Kg		10/31/15 13:21	11/03/15 20:53	1
Potassium	9.7	U	97	9.7	mg/Kg		10/31/15 13:21	11/03/15 20:53	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	150		78	41	mg/Kg		10/28/15 17:51	10/30/15 15:06	1
Phosphorus, Total	17		3.9	1.2	mg/Kg		10/28/15 17:56	10/29/15 17:16	1
Nitrogen, Total	0.015		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	0.99	0.32	mg/Kg			11/04/15 19:41	1
Nitrate Nitrite as N	0.36	U	0.99	0.36	mg/Kg			11/03/15 14:03	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/28/15 17:54	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/28/15 17:44	1
Sulfate	27	U	96	27	mg/Kg			11/06/15 16:39	1
Chloride	12	U	39	12	mg/Kg			11/06/15 17:56	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 14:03	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW4.0 SED (10/26/2015)

Lab Sample ID: 660-70053-5

Date Collected: 10/26/15 15:00

Matrix: Solid

Date Received: 10/27/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.20	U	0.99	0.20	mg/Kg		10/31/15 13:21	11/03/15 20:56	1
Iron	110		9.9	5.0	mg/Kg		10/31/15 13:21	11/03/15 20:56	1
Magnesium	93		50	3.0	mg/Kg		10/31/15 13:21	11/03/15 20:56	1
Manganese	0.85	I	0.99	0.099	mg/Kg		10/31/15 13:21	11/03/15 20:56	1
Potassium	16	I	99	9.9	mg/Kg		10/31/15 13:21	11/03/15 20:56	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	140		79	41	mg/Kg		10/28/15 17:51	10/30/15 15:09	1
Phosphorus, Total	26		4.0	1.2	mg/Kg		10/28/15 17:56	10/29/15 17:20	1
Nitrogen, Total	0.014		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	2.0		0.99	0.32	mg/Kg			11/04/15 19:42	1
Nitrate Nitrite as N	0.36	U	0.99	0.36	mg/Kg			11/03/15 14:04	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/28/15 17:45	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/28/15 17:44	1
Sulfate	24	U	86	24	mg/Kg			11/06/15 16:39	1
Chloride	10	U	35	10	mg/Kg			11/06/15 17:56	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 14:04	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW3.5 SED (10/26/2015)

Lab Sample ID: 660-70053-6

Date Collected: 10/26/15 15:45

Matrix: Solid

Date Received: 10/27/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.19	U	0.97	0.19	mg/Kg		10/31/15 13:21	11/03/15 21:00	1
Iron	10		9.7	4.8	mg/Kg		10/31/15 13:21	11/03/15 21:00	1
Magnesium	12	I	48	2.9	mg/Kg		10/31/15 13:21	11/03/15 21:00	1
Manganese	0.18	I	0.97	0.097	mg/Kg		10/31/15 13:21	11/03/15 21:00	1
Potassium	9.7	U	97	9.7	mg/Kg		10/31/15 13:21	11/03/15 21:00	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	100		43	23	mg/Kg		10/28/15 17:51	10/30/15 15:10	1
Phosphorus, Total	16		2.2	0.65	mg/Kg		10/28/15 17:56	10/29/15 17:21	1
Nitrogen, Total	0.010		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	0.99	0.32	mg/Kg			11/04/15 19:43	1
Nitrate Nitrite as N	0.36	U	0.99	0.36	mg/Kg			11/03/15 14:05	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/28/15 17:45	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/28/15 17:44	1
Sulfate	28	U	99	28	mg/Kg			11/06/15 16:39	1
Chloride	12	U J3	40	12	mg/Kg			11/06/15 17:56	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 14:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW5.5 SW (10/26/2015)

Lab Sample ID: 660-70053-7

Date Collected: 10/26/15 10:40

Matrix: Water

Date Received: 10/27/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/30/15 16:40	11/05/15 08:47	1
Iron	50	U	200	50	ug/L		10/30/15 16:40	11/05/15 08:47	1
Magnesium	6600	J3	80	20	ug/L		10/30/15 16:40	11/05/15 08:47	1
Manganese	1.0	U	4.0	1.0	ug/L		10/30/15 16:40	11/05/15 08:47	1
Potassium	470	I	1000	190	ug/L		10/30/15 16:40	11/05/15 08:47	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/30/15 16:43	11/05/15 09:36	1
Iron	50	U	200	50	ug/L		10/30/15 16:43	11/05/15 09:36	1
Magnesium	6600		80	20	ug/L		10/30/15 16:43	11/05/15 09:36	1
Manganese	1.0	U	4.0	1.0	ug/L		10/30/15 16:43	11/05/15 09:36	1
Potassium	450	I	1000	190	ug/L		10/30/15 16:43	11/05/15 09:36	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			11/05/15 16:39	1
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/28/15 16:45	10/30/15 15:27	1
Nitrate Nitrite as N	0.87		0.050	0.018	mg/L			10/29/15 11:58	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/27/15 15:18	1
Phosphorus, Total	0.032	U	0.10	0.032	mg/L		10/28/15 16:47	10/29/15 15:27	1
Nitrate as N	0.87		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.87		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	11		2.0	0.60	mg/L			10/31/15 14:14	1
Sulfate	12		5.0	1.4	mg/L			11/06/15 16:30	1
Ferrous Iron	47	I Q	50	20	ug/L			10/29/15 19:04	1
Nitrogen, Total	0.87		0.50	0.26	mg/L			11/04/15 10:36	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0050	U	0.010	0.0050	mg/L			10/27/15 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW5.5 PW (10/26/2015)

Lab Sample ID: 660-70053-8

Date Collected: 10/26/15 10:40

Matrix: Water

Date Received: 10/27/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/30/15 16:40	11/05/15 08:59	1
Iron	93	I	200	50	ug/L		10/30/15 16:40	11/05/15 08:59	1
Magnesium	7900		80	20	ug/L		10/30/15 16:40	11/05/15 08:59	1
Manganese	1.9	I	4.0	1.0	ug/L		10/30/15 16:40	11/05/15 08:59	1
Potassium	810	I	1000	190	ug/L		10/30/15 16:40	11/05/15 08:59	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/30/15 16:43	11/05/15 09:39	1
Iron	50	U	200	50	ug/L		10/30/15 16:43	11/05/15 09:39	1
Magnesium	8100		80	20	ug/L		10/30/15 16:43	11/05/15 09:39	1
Manganese	1.8	I	4.0	1.0	ug/L		10/30/15 16:43	11/05/15 09:39	1
Potassium	780	I	1000	190	ug/L		10/30/15 16:43	11/05/15 09:39	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.83		0.050	0.020	mg/L			11/05/15 16:40	1
Total Kjeldahl Nitrogen	1.1		0.50	0.26	mg/L		10/28/15 16:45	10/30/15 15:28	1
Nitrate Nitrite as N	0.018	U	0.050	0.018	mg/L			10/29/15 11:59	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/27/15 15:22	1
Phosphorus, Total	0.20		0.10	0.032	mg/L		10/28/15 16:47	10/29/15 15:28	1
Nitrate as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	11		2.0	0.60	mg/L			10/31/15 14:19	1
Sulfate	1.4	U	5.0	1.4	mg/L			11/06/15 16:30	1
Ferrous Iron	150	Q	50	20	ug/L			10/29/15 19:04	1
Nitrogen, Total	1.1		0.50	0.26	mg/L			11/04/15 10:36	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.19		0.010	0.0050	mg/L			10/27/15 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW5.25 SW (10/26/2015)

Lab Sample ID: 660-70053-9

Date Collected: 10/26/15 11:50

Matrix: Water

Date Received: 10/27/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/30/15 16:40	11/05/15 09:02	1
Iron	50	U	200	50	ug/L		10/30/15 16:40	11/05/15 09:02	1
Magnesium	6500		80	20	ug/L		10/30/15 16:40	11/05/15 09:02	1
Manganese	1.0	U	4.0	1.0	ug/L		10/30/15 16:40	11/05/15 09:02	1
Potassium	470	I	1000	190	ug/L		10/30/15 16:40	11/05/15 09:02	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/30/15 16:43	11/05/15 09:43	1
Iron	50	U	200	50	ug/L		10/30/15 16:43	11/05/15 09:43	1
Magnesium	6600		80	20	ug/L		10/30/15 16:43	11/05/15 09:43	1
Manganese	1.0	U	4.0	1.0	ug/L		10/30/15 16:43	11/05/15 09:43	1
Potassium	450	I	1000	190	ug/L		10/30/15 16:43	11/05/15 09:43	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			11/05/15 16:41	1
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/28/15 16:45	10/30/15 15:30	1
Nitrate Nitrite as N	0.84		0.050	0.018	mg/L			10/29/15 12:05	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/27/15 15:23	1
Phosphorus, Total	0.032	U	0.10	0.032	mg/L		10/28/15 16:47	10/29/15 15:29	1
Nitrate as N	0.84		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.84		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	10		2.0	0.60	mg/L			10/31/15 14:19	1
Sulfate	12		5.0	1.4	mg/L			11/06/15 16:30	1
Ferrous Iron	45	I Q	50	20	ug/L			10/29/15 19:04	1
Nitrogen, Total	0.84		0.50	0.26	mg/L			11/04/15 10:36	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0050	U	0.010	0.0050	mg/L			10/27/15 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW5.25 PW (10/26/2015)

Lab Sample ID: 660-70053-10

Date Collected: 10/26/15 11:50

Matrix: Water

Date Received: 10/27/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/30/15 16:40	11/05/15 09:06	1
Iron	120	I	200	50	ug/L		10/30/15 16:40	11/05/15 09:06	1
Magnesium	7500		80	20	ug/L		10/30/15 16:40	11/05/15 09:06	1
Manganese	1.0	U	4.0	1.0	ug/L		10/30/15 16:40	11/05/15 09:06	1
Potassium	360	I	1000	190	ug/L		10/30/15 16:40	11/05/15 09:06	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/30/15 16:43	11/05/15 09:46	1
Iron	50	U	200	50	ug/L		10/30/15 16:43	11/05/15 09:46	1
Magnesium	7600		80	20	ug/L		10/30/15 16:43	11/05/15 09:46	1
Manganese	1.0	U	4.0	1.0	ug/L		10/30/15 16:43	11/05/15 09:46	1
Potassium	320	I	1000	190	ug/L		10/30/15 16:43	11/05/15 09:46	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			11/05/15 16:42	1
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/28/15 16:45	10/30/15 15:31	1
Nitrate Nitrite as N	0.018	U	0.050	0.018	mg/L			10/29/15 12:06	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/27/15 15:24	1
Phosphorus, Total	0.032	U	0.10	0.032	mg/L		10/28/15 16:47	10/29/15 15:30	1
Nitrate as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	9.6		2.0	0.60	mg/L			10/31/15 14:19	1
Sulfate	13		5.0	1.4	mg/L			11/06/15 16:30	1
Ferrous Iron	150	Q	50	20	ug/L			10/29/15 19:04	1
Nitrogen, Total	0.26	U	0.50	0.26	mg/L			11/04/15 10:36	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0060	I	0.010	0.0050	mg/L			10/27/15 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW4.5 SW (10/26/2015)

Lab Sample ID: 660-70053-11

Date Collected: 10/26/15 14:25

Matrix: Water

Date Received: 10/27/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/30/15 16:40	11/05/15 09:19	1
Iron	50	U	200	50	ug/L		10/30/15 16:40	11/05/15 09:19	1
Magnesium	6700		80	20	ug/L		10/30/15 16:40	11/05/15 09:19	1
Manganese	1.0	U	4.0	1.0	ug/L		10/30/15 16:40	11/05/15 09:19	1
Potassium	470	I	1000	190	ug/L		10/30/15 16:40	11/05/15 09:19	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/30/15 16:43	11/05/15 09:56	1
Iron	50	U	200	50	ug/L		10/30/15 16:43	11/05/15 09:56	1
Magnesium	6600		80	20	ug/L		10/30/15 16:43	11/05/15 09:56	1
Manganese	1.0	U	4.0	1.0	ug/L		10/30/15 16:43	11/05/15 09:56	1
Potassium	450	I	1000	190	ug/L		10/30/15 16:43	11/05/15 09:56	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			11/05/15 18:25	1
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/28/15 16:45	10/30/15 15:34	1
Nitrate Nitrite as N	0.84		0.050	0.018	mg/L			10/29/15 12:07	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/27/15 15:34	1
Phosphorus, Total	0.032	U	0.10	0.032	mg/L		10/28/15 16:47	10/29/15 16:45	1
Nitrate as N	0.84		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.84		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	11	J3	2.0	0.60	mg/L			11/06/15 17:56	1
Sulfate	12	J3	5.0	1.4	mg/L			11/06/15 16:30	1
Ferrous Iron	47	I Q	50	20	ug/L			10/29/15 19:04	1
Nitrogen, Total	0.84		0.50	0.26	mg/L			11/04/15 10:36	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0050	U	0.010	0.0050	mg/L			10/27/15 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW4.5 PW (10/26/2015)

Lab Sample ID: 660-70053-12

Date Collected: 10/26/15 14:25

Matrix: Water

Date Received: 10/27/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/30/15 16:40	11/05/15 09:22	1
Iron	50	U	200	50	ug/L		10/30/15 16:40	11/05/15 09:22	1
Magnesium	7000		80	20	ug/L		10/30/15 16:40	11/05/15 09:22	1
Manganese	4.1		4.0	1.0	ug/L		10/30/15 16:40	11/05/15 09:22	1
Potassium	380	I	1000	190	ug/L		10/30/15 16:40	11/05/15 09:22	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/30/15 16:43	11/05/15 09:59	1
Iron	50	U	200	50	ug/L		10/30/15 16:43	11/05/15 09:59	1
Magnesium	7000		80	20	ug/L		10/30/15 16:43	11/05/15 09:59	1
Manganese	3.3	I	4.0	1.0	ug/L		10/30/15 16:43	11/05/15 09:59	1
Potassium	350	I	1000	190	ug/L		10/30/15 16:43	11/05/15 09:59	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.13		0.050	0.020	mg/L			11/05/15 18:28	1
Total Kjeldahl Nitrogen	0.37	I	0.50	0.26	mg/L		10/28/15 16:45	10/30/15 15:35	1
Nitrate Nitrite as N	0.038	I	0.050	0.018	mg/L			10/29/15 12:08	1
Nitrite as N	0.0051	I	0.010	0.0050	mg/L			10/27/15 15:35	1
Phosphorus, Total	0.042	I	0.10	0.032	mg/L		10/28/15 16:47	10/29/15 16:46	1
Nitrate as N	0.033		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.038		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	8.5		2.0	0.60	mg/L			11/06/15 17:56	1
Sulfate	4.4	I	5.0	1.4	mg/L			11/06/15 16:30	1
Ferrous Iron	88	Q	50	20	ug/L			10/29/15 19:04	1
Nitrogen, Total	0.41	I	0.50	0.26	mg/L			11/04/15 10:36	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.047		0.010	0.0050	mg/L			10/27/15 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW3.5 SW (10/26/2015)

Lab Sample ID: 660-70053-13

Date Collected: 10/26/15 16:10

Matrix: Water

Date Received: 10/27/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	5.6	I	10	2.5	ug/L		10/30/15 16:40	11/05/15 09:26	1
Iron	50	U	200	50	ug/L		10/30/15 16:40	11/05/15 09:26	1
Magnesium	6500		80	20	ug/L		10/30/15 16:40	11/05/15 09:26	1
Manganese	4.5		4.0	1.0	ug/L		10/30/15 16:40	11/05/15 09:26	1
Potassium	450	I	1000	190	ug/L		10/30/15 16:40	11/05/15 09:26	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/30/15 16:43	11/05/15 10:02	1
Iron	50	U	200	50	ug/L		10/30/15 16:43	11/05/15 10:02	1
Magnesium	6600		80	20	ug/L		10/30/15 16:43	11/05/15 10:02	1
Manganese	1.0	U	4.0	1.0	ug/L		10/30/15 16:43	11/05/15 10:02	1
Potassium	460	I	1000	190	ug/L		10/30/15 16:43	11/05/15 10:02	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			11/05/15 18:23	1
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/28/15 16:45	10/30/15 15:36	1
Nitrate Nitrite as N	0.86		0.050	0.018	mg/L			10/29/15 12:09	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/27/15 15:36	1
Phosphorus, Total	0.032	U	0.10	0.032	mg/L		10/28/15 16:47	10/29/15 16:48	1
Nitrate as N	0.86		0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.86		0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	11		2.0	0.60	mg/L			11/06/15 17:56	1
Sulfate	12		5.0	1.4	mg/L			11/06/15 16:30	1
Ferrous Iron	41	I Q	50	20	ug/L			10/29/15 19:04	1
Nitrogen, Total	0.86		0.50	0.26	mg/L			11/04/15 10:36	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0050	U	0.010	0.0050	mg/L			10/27/15 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW3.5 PW (10/26/2015)

Lab Sample ID: 660-70053-14

Date Collected: 10/26/15 16:10

Matrix: Water

Date Received: 10/27/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/30/15 16:40	11/05/15 09:29	1
Iron	50	U	200	50	ug/L		10/30/15 16:40	11/05/15 09:29	1
Magnesium	6400		80	20	ug/L		10/30/15 16:40	11/05/15 09:29	1
Manganese	2.0	I	4.0	1.0	ug/L		10/30/15 16:40	11/05/15 09:29	1
Potassium	510	I	1000	190	ug/L		10/30/15 16:40	11/05/15 09:29	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/30/15 16:43	11/05/15 10:06	1
Iron	50	U	200	50	ug/L		10/30/15 16:43	11/05/15 10:06	1
Magnesium	6500		80	20	ug/L		10/30/15 16:43	11/05/15 10:06	1
Manganese	1.1	I	4.0	1.0	ug/L		10/30/15 16:43	11/05/15 10:06	1
Potassium	500	I	1000	190	ug/L		10/30/15 16:43	11/05/15 10:06	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.41		0.050	0.020	mg/L			11/05/15 18:24	1
Total Kjeldahl Nitrogen	0.53		0.50	0.26	mg/L		10/28/15 16:45	10/30/15 15:37	1
Nitrate Nitrite as N	0.018	U	0.050	0.018	mg/L			10/29/15 12:10	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/27/15 15:38	1
Phosphorus, Total	0.16		0.10	0.032	mg/L		10/28/15 16:47	10/29/15 16:49	1
Nitrate as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Nitrate Nitrite as N	0.010	U	0.020	0.010	mg/L			11/04/15 13:57	1
Chloride	12		2.0	0.60	mg/L			11/06/15 17:56	1
Sulfate	10		5.0	1.4	mg/L			11/06/15 16:30	1
Ferrous Iron	60	Q	50	20	ug/L			10/29/15 19:04	1
Nitrogen, Total	0.53		0.50	0.26	mg/L			11/04/15 10:36	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.11		0.010	0.0050	mg/L			10/27/15 16:30	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW2.5 SW (10/27/2015)

Lab Sample ID: 660-70082-1

Date Collected: 10/27/15 10:35

Matrix: Water

Date Received: 10/28/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		11/05/15 13:15	11/05/15 19:15	1
Iron	50	U	200	50	ug/L		11/05/15 13:15	11/05/15 19:15	1
Magnesium	6600		80	20	ug/L		11/05/15 13:15	11/05/15 19:15	1
Manganese	1.0	U	4.0	1.0	ug/L		11/05/15 13:15	11/05/15 19:15	1
Potassium	5500		1000	190	ug/L		11/05/15 13:15	11/05/15 19:15	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	7.5	I	10	2.5	ug/L		11/05/15 13:15	11/05/15 19:38	1
Iron	50	U	200	50	ug/L		11/05/15 13:15	11/05/15 19:38	1
Magnesium	6400		80	20	ug/L		11/05/15 13:15	11/05/15 19:38	1
Manganese	6.9		4.0	1.0	ug/L		11/05/15 13:15	11/05/15 19:38	1
Potassium	770	I	1000	190	ug/L		11/05/15 13:15	11/05/15 19:38	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			11/05/15 13:36	1
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/29/15 16:45	10/30/15 16:13	1
Nitrate Nitrite as N	0.89		0.050	0.018	mg/L			11/03/15 18:51	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/28/15 14:35	1
Phosphorus, Total	0.038	I	0.10	0.032	mg/L		10/29/15 16:49	10/30/15 13:32	1
Nitrate as N	0.89		0.020	0.010	mg/L			11/06/15 09:42	1
Nitrate Nitrite as N	0.89		0.020	0.010	mg/L			11/06/15 09:42	1
Chloride	11	J3	2.0	0.60	mg/L			11/09/15 18:17	1
Sulfate	11		5.0	1.4	mg/L			11/09/15 14:06	1
Ferrous Iron	28	I Q	50	20	ug/L			10/29/15 19:04	1
Nitrogen, Total	0.89		0.50	0.26	mg/L			11/09/15 18:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0050	U	0.010	0.0050	mg/L			10/29/15 09:35	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW2.5 PW (10/27/2015)

Lab Sample ID: 660-70082-2

Date Collected: 10/27/15 10:35

Matrix: Water

Date Received: 10/28/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		11/05/15 13:15	11/05/15 19:18	1
Iron	50	U	200	50	ug/L		11/05/15 13:15	11/05/15 19:18	1
Magnesium	6200		80	20	ug/L		11/05/15 13:15	11/05/15 19:18	1
Manganese	1.0	U	4.0	1.0	ug/L		11/05/15 13:15	11/05/15 19:18	1
Potassium	2900		1000	190	ug/L		11/05/15 13:15	11/05/15 19:18	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		11/05/15 13:15	11/05/15 19:41	1
Iron	50	U	200	50	ug/L		11/05/15 13:15	11/05/15 19:41	1
Magnesium	6200		80	20	ug/L		11/05/15 13:15	11/05/15 19:41	1
Manganese	1.0	U	4.0	1.0	ug/L		11/05/15 13:15	11/05/15 19:41	1
Potassium	870	I	1000	190	ug/L		11/05/15 13:15	11/05/15 19:41	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.53		0.050	0.020	mg/L			11/05/15 13:37	1
Total Kjeldahl Nitrogen	0.93		0.50	0.26	mg/L		10/29/15 16:45	10/30/15 16:14	1
Nitrate Nitrite as N	0.018	U	0.050	0.018	mg/L			11/03/15 18:52	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/28/15 14:35	1
Phosphorus, Total	0.13		0.10	0.032	mg/L		10/29/15 16:49	10/30/15 13:33	1
Nitrate as N	0.010	U	0.020	0.010	mg/L			11/06/15 09:42	1
Nitrate Nitrite as N	0.010	U	0.020	0.010	mg/L			11/06/15 09:42	1
Chloride	14		2.0	0.60	mg/L			11/09/15 18:17	1
Sulfate	6.1		5.0	1.4	mg/L			11/09/15 14:06	1
Ferrous Iron	77	Q	50	20	ug/L			10/29/15 19:04	1
Nitrogen, Total	0.93		0.50	0.26	mg/L			11/09/15 18:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.087		0.010	0.0050	mg/L			10/29/15 09:35	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW1.5 SW (10/27/2015)

Lab Sample ID: 660-70082-3

Date Collected: 10/27/15 12:10

Matrix: Water

Date Received: 10/28/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		11/05/15 13:15	11/05/15 19:21	1
Iron	50	U	200	50	ug/L		11/05/15 13:15	11/05/15 19:21	1
Magnesium	6600		80	20	ug/L		11/05/15 13:15	11/05/15 19:21	1
Manganese	1.0	U	4.0	1.0	ug/L		11/05/15 13:15	11/05/15 19:21	1
Potassium	1900		1000	190	ug/L		11/05/15 13:15	11/05/15 19:21	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		11/05/15 13:15	11/05/15 19:45	1
Iron	50	U	200	50	ug/L		11/05/15 13:15	11/05/15 19:45	1
Magnesium	6700		80	20	ug/L		11/05/15 13:15	11/05/15 19:45	1
Manganese	1.0	U	4.0	1.0	ug/L		11/05/15 13:15	11/05/15 19:45	1
Potassium	710	I	1000	190	ug/L		11/05/15 13:15	11/05/15 19:45	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			11/05/15 13:38	1
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/29/15 16:45	10/30/15 16:15	1
Nitrate Nitrite as N	0.89		0.050	0.018	mg/L			11/03/15 18:53	1
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/28/15 14:35	1
Phosphorus, Total	0.054	I	0.10	0.032	mg/L		10/29/15 16:49	10/30/15 13:34	1
Nitrate as N	0.89		0.020	0.010	mg/L			11/06/15 09:42	1
Nitrate Nitrite as N	0.89		0.020	0.010	mg/L			11/06/15 09:42	1
Chloride	11		2.0	0.60	mg/L			11/09/15 18:17	1
Sulfate	11		5.0	1.4	mg/L			11/09/15 14:06	1
Ferrous Iron	24	I Q	50	20	ug/L			10/29/15 19:04	1
Nitrogen, Total	0.89		0.50	0.26	mg/L			11/09/15 18:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0060	I	0.010	0.0050	mg/L			10/29/15 09:35	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW1.5 PW (10/27/2015)

Lab Sample ID: 660-70082-4

Date Collected: 10/27/15 12:10

Matrix: Water

Date Received: 10/28/15 06:05

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		11/05/15 13:15	11/05/15 19:31	1
Iron	50	U	200	50	ug/L		11/05/15 13:15	11/05/15 19:31	1
Magnesium	6300		80	20	ug/L		11/05/15 13:15	11/05/15 19:31	1
Manganese	1.0	U	4.0	1.0	ug/L		11/05/15 13:15	11/05/15 19:31	1
Potassium	960	I	1000	190	ug/L		11/05/15 13:15	11/05/15 19:31	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		11/05/15 13:15	11/05/15 19:48	1
Iron	50	U	200	50	ug/L		11/05/15 13:15	11/05/15 19:48	1
Magnesium	6400		80	20	ug/L		11/05/15 13:15	11/05/15 19:48	1
Manganese	1.0	U	4.0	1.0	ug/L		11/05/15 13:15	11/05/15 19:48	1
Potassium	580	I	1000	190	ug/L		11/05/15 13:15	11/05/15 19:48	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			11/05/15 13:39	1
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/29/15 16:45	10/30/15 16:16	1
Nitrate Nitrite as N	0.30		0.050	0.018	mg/L			11/03/15 18:54	1
Nitrite as N	0.0081	I	0.010	0.0050	mg/L			10/28/15 14:35	1
Phosphorus, Total	0.047	I	0.10	0.032	mg/L		10/29/15 16:49	10/30/15 13:35	1
Nitrate as N	0.29		0.020	0.010	mg/L			11/06/15 09:42	1
Nitrate Nitrite as N	0.30		0.020	0.010	mg/L			11/06/15 09:42	1
Chloride	8.6		2.0	0.60	mg/L			11/09/15 18:17	1
Sulfate	9.5		5.0	1.4	mg/L			11/09/15 14:06	1
Ferrous Iron	47	I Q	50	20	ug/L			10/29/15 19:09	1
Nitrogen, Total	0.30	I	0.50	0.26	mg/L			11/09/15 18:34	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0070	I	0.010	0.0050	mg/L			10/29/15 09:35	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW3.0 SED (10/27/2015)

Lab Sample ID: 660-70082-5

Date Collected: 10/27/15 09:45

Matrix: Solid

Date Received: 10/28/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.29	I	0.95	0.19	mg/Kg		10/31/15 13:21	11/03/15 21:50	1
Iron	49		9.5	4.8	mg/Kg		10/31/15 13:21	11/03/15 21:50	1
Magnesium	68		48	2.9	mg/Kg		10/31/15 13:21	11/03/15 21:50	1
Manganese	0.35	I	0.95	0.095	mg/Kg		10/31/15 13:21	11/03/15 21:50	1
Potassium	9.5	U	95	9.5	mg/Kg		10/31/15 13:21	11/03/15 21:50	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	120		63	33	mg/Kg		10/29/15 16:40	10/30/15 16:29	1
Phosphorus, Total	16	V J3	3.2	0.95	mg/Kg		10/29/15 16:43	10/30/15 13:45	1
Nitrogen, Total	0.012		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	1.8		0.97	0.31	mg/Kg			11/04/15 19:45	1
Nitrate Nitrite as N	0.35	U	0.97	0.35	mg/Kg			11/03/15 14:06	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/30/15 08:10	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/30/15 08:18	1
Sulfate	26	U	92	26	mg/Kg			11/10/15 10:08	1
Chloride	11	U	37	11	mg/Kg			11/10/15 10:16	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 14:06	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW2.5 SED (10/27/2015)

Lab Sample ID: 660-70082-6

Date Collected: 10/27/15 10:15

Matrix: Solid

Date Received: 10/28/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.40	I	1.1	0.21	mg/Kg		10/31/15 13:21	11/03/15 21:53	1
Iron	17		11	5.3	mg/Kg		10/31/15 13:21	11/03/15 21:53	1
Magnesium	38	I	53	3.2	mg/Kg		10/31/15 13:21	11/03/15 21:53	1
Manganese	0.22	I	1.1	0.11	mg/Kg		10/31/15 13:21	11/03/15 21:53	1
Potassium	12	I	110	11	mg/Kg		10/31/15 13:21	11/03/15 21:53	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	160		32	17	mg/Kg		10/29/15 16:40	10/30/15 16:32	1
Phosphorus, Total	29		1.6	0.48	mg/Kg		10/29/15 16:43	10/30/15 13:48	1
Nitrogen, Total	0.016		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	3.3		1.0	0.32	mg/Kg			11/04/15 19:46	1
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 14:07	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/30/15 08:10	1
Orthophosphate	0.43	I	1.0	0.30	mg/Kg			10/30/15 08:18	1
Sulfate	25	U	89	25	mg/Kg			11/10/15 10:08	1
Chloride	11	U	36	11	mg/Kg			11/10/15 10:16	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 14:07	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW2.0 SED (10/27/2015)

Lab Sample ID: 660-70082-7

Date Collected: 10/27/15 11:15

Matrix: Solid

Date Received: 10/28/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.64	I	1.1	0.21	mg/Kg		10/31/15 13:21	11/03/15 22:07	1
Iron	790		11	5.4	mg/Kg		10/31/15 13:21	11/03/15 22:07	1
Magnesium	84		54	3.2	mg/Kg		10/31/15 13:21	11/03/15 22:07	1
Manganese	2.2		1.1	0.11	mg/Kg		10/31/15 13:21	11/03/15 22:07	1
Potassium	18	I	110	11	mg/Kg		10/31/15 13:21	11/03/15 22:07	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	140		61	32	mg/Kg		10/29/15 16:40	10/30/15 16:34	1
Phosphorus, Total	36		3.0	0.91	mg/Kg		10/29/15 16:43	10/30/15 13:49	1
Nitrogen, Total	0.014		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	1.7		1.0	0.32	mg/Kg			11/04/15 19:49	1
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 14:10	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/30/15 08:10	1
Orthophosphate	0.30	I	1.0	0.30	mg/Kg			10/30/15 08:18	1
Sulfate	120		93	26	mg/Kg			11/10/15 10:08	1
Chloride	31	I	37	11	mg/Kg			11/10/15 10:16	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 14:10	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW1.5 SED (10/27/2015)

Lab Sample ID: 660-70082-8

Date Collected: 10/27/15 11:40

Matrix: Solid

Date Received: 10/28/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.43	I	0.91	0.18	mg/Kg		10/31/15 13:21	11/03/15 22:10	1
Iron	140		9.1	4.6	mg/Kg		10/31/15 13:21	11/03/15 22:10	1
Magnesium	150		46	2.7	mg/Kg		10/31/15 13:21	11/03/15 22:10	1
Manganese	0.55	I	0.91	0.091	mg/Kg		10/31/15 13:21	11/03/15 22:10	1
Potassium	14	I	91	9.1	mg/Kg		10/31/15 13:21	11/03/15 22:10	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	340		57	30	mg/Kg		10/29/15 16:40	10/30/15 16:35	1
Phosphorus, Total	36		2.9	0.86	mg/Kg		10/29/15 16:43	10/30/15 13:51	1
Nitrogen, Total	0.034		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	4.5		1.0	0.32	mg/Kg			11/04/15 19:50	1
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 14:11	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/30/15 08:10	1
Orthophosphate	0.42	I	1.0	0.30	mg/Kg			10/30/15 08:47	1
Sulfate	25	U	90	25	mg/Kg			11/10/15 10:09	1
Chloride	11	I	36	11	mg/Kg			11/10/15 10:16	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 14:11	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW1.0 SED (10/27/2015)

Lab Sample ID: 660-70082-9

Date Collected: 10/27/15 12:50

Matrix: Solid

Date Received: 10/28/15 06:05

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.27	I	0.92	0.18	mg/Kg		10/31/15 13:21	11/03/15 22:14	1
Iron	36		9.2	4.6	mg/Kg		10/31/15 13:21	11/03/15 22:14	1
Magnesium	150		46	2.7	mg/Kg		10/31/15 13:21	11/03/15 22:14	1
Manganese	0.28	I	0.92	0.092	mg/Kg		10/31/15 13:21	11/03/15 22:14	1
Potassium	10	I	92	9.2	mg/Kg		10/31/15 13:21	11/03/15 22:14	1

General Chemistry

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	820		68	36	mg/Kg		10/29/15 16:40	10/30/15 16:36	1
Phosphorus, Total	95		3.4	1.0	mg/Kg		10/29/15 16:43	10/30/15 13:52	1
Nitrogen, Total	0.082		0.0050	0.0026	Percent			11/04/15 11:52	1

General Chemistry - Soluble

Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	1.8		1.0	0.32	mg/Kg			11/04/15 19:51	1
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 14:12	1
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/30/15 08:10	1
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/30/15 08:18	1
Sulfate	25	U	89	25	mg/Kg			11/10/15 10:09	1
Chloride	15	I	36	11	mg/Kg			11/10/15 10:16	1
Nitrate as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 14:12	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-278963/1-A
Matrix: Solid
Analysis Batch: 279391

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 278963

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.20	U	0.99	0.20	mg/Kg		10/16/15 11:01	10/17/15 10:02	1
Iron	4.9	U	9.9	4.9	mg/Kg		10/16/15 11:01	10/17/15 10:02	1
Magnesium	3.0	U	49	3.0	mg/Kg		10/16/15 11:01	10/17/15 10:02	1
Manganese	0.099	U	0.99	0.099	mg/Kg		10/16/15 11:01	10/17/15 10:02	1
Potassium	9.9	U	99	9.9	mg/Kg		10/16/15 11:01	10/17/15 10:02	1

Lab Sample ID: LCS 400-278963/2-A
Matrix: Solid
Analysis Batch: 279391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 278963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Copper	99.3	104		mg/Kg		105	80 - 120
Iron	993	1100		mg/Kg		111	80 - 120
Magnesium	993	1060		mg/Kg		106	80 - 120
Manganese	99.3	106		mg/Kg		107	80 - 120
Potassium	993	1090		mg/Kg		109	80 - 120

Lab Sample ID: 660-68566-3 MS
Matrix: Solid
Analysis Batch: 279391

Client Sample ID: CZ 10 SED (08/12/2015)
Prep Type: Total/NA
Prep Batch: 278963

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Copper	0.81	I	95.7	97.0		mg/Kg		100	75 - 125
Iron	3600	J3	957	4820	J3	mg/Kg		129	75 - 125
Magnesium	890		957	1960		mg/Kg		112	75 - 125
Manganese	16		95.7	114		mg/Kg		102	75 - 125
Potassium	160		957	1230		mg/Kg		111	75 - 125

Lab Sample ID: 660-68566-3 MSD
Matrix: Solid
Analysis Batch: 279391

Client Sample ID: CZ 10 SED (08/12/2015)
Prep Type: Total/NA
Prep Batch: 278963

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Copper	0.81	I	91.0	92.8		mg/Kg		101	75 - 125	4	20
Iron	3600	J3	910	4510		mg/Kg		101	75 - 125	7	20
Magnesium	890		910	1860		mg/Kg		106	75 - 125	5	20
Manganese	16		91.0	108		mg/Kg		101	75 - 125	6	20
Potassium	160		910	1170		mg/Kg		111	75 - 125	4	20

Lab Sample ID: MB 400-279662/1-A
Matrix: Solid
Analysis Batch: 280161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279662

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.20	U	1.0	0.20	mg/Kg		10/21/15 06:43	10/22/15 17:39	1
Iron	5.0	U	10	5.0	mg/Kg		10/21/15 06:43	10/22/15 17:39	1
Magnesium	3.0	U	50	3.0	mg/Kg		10/21/15 06:43	10/22/15 17:39	1
Manganese	0.984	I	1.0	0.10	mg/Kg		10/21/15 06:43	10/22/15 17:39	1
Potassium	10	U	100	10	mg/Kg		10/21/15 06:43	10/22/15 17:39	1

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: LCS 400-279662/2-A
Matrix: Solid
Analysis Batch: 280161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279662
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Copper	98.8	101		mg/Kg		102	80 - 120
Iron	988	1010		mg/Kg		102	80 - 120
Magnesium	988	975		mg/Kg		99	80 - 120
Manganese	98.8	98.3		mg/Kg		100	80 - 120
Potassium	988	974		mg/Kg		99	80 - 120

Lab Sample ID: MB 400-279986/1-A
Matrix: Solid
Analysis Batch: 280815

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279986

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.20	U	1.0	0.20	mg/Kg		10/23/15 11:40	10/27/15 20:17	1
Iron	5.0	U	10	5.0	mg/Kg		10/23/15 11:40	10/27/15 20:17	1
Magnesium	3.0	U	50	3.0	mg/Kg		10/23/15 11:40	10/27/15 20:17	1
Manganese	0.10	U	1.0	0.10	mg/Kg		10/23/15 11:40	10/27/15 20:17	1
Potassium	10	U	100	10	mg/Kg		10/23/15 11:40	10/27/15 20:17	1

Lab Sample ID: LCS 400-279986/2-A
Matrix: Solid
Analysis Batch: 280815

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279986
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Copper	99.4	99.5		mg/Kg		100	80 - 120
Iron	994	1010		mg/Kg		102	80 - 120
Magnesium	994	1050		mg/Kg		105	80 - 120
Manganese	99.4	97.8		mg/Kg		98	80 - 120
Potassium	994	948		mg/Kg		95	80 - 120

Lab Sample ID: MB 400-280181/1-A
Matrix: Solid
Analysis Batch: 281073

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280181

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.233	I	1.0	0.20	mg/Kg		10/23/15 11:40	10/28/15 22:26	1
Iron	5.0	U	10	5.0	mg/Kg		10/23/15 11:40	10/28/15 22:26	1
Magnesium	3.0	U	50	3.0	mg/Kg		10/23/15 11:40	10/28/15 22:26	1
Manganese	0.10	U	1.0	0.10	mg/Kg		10/23/15 11:40	10/28/15 22:26	1
Potassium	10	U	100	10	mg/Kg		10/23/15 11:40	10/28/15 22:26	1

Lab Sample ID: LCS 400-280181/2-A
Matrix: Solid
Analysis Batch: 281073

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280181
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Copper	100	97.0		mg/Kg		97	80 - 120
Iron	1000	981		mg/Kg		98	80 - 120
Magnesium	1000	1020		mg/Kg		102	80 - 120
Manganese	100	95.4		mg/Kg		95	80 - 120
Potassium	1000	925		mg/Kg		92	80 - 120

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 400-280268/1-A
Matrix: Solid
Analysis Batch: 281232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280268

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.20	U	1.0	0.20	mg/Kg		10/24/15 12:58	10/29/15 19:18	1
Iron	5.0	U	10	5.0	mg/Kg		10/24/15 12:58	10/29/15 19:18	1
Magnesium	3.0	U	50	3.0	mg/Kg		10/24/15 12:58	10/29/15 19:18	1
Manganese	0.10	U	1.0	0.10	mg/Kg		10/24/15 12:58	10/29/15 19:18	1
Potassium	10	U	100	10	mg/Kg		10/24/15 12:58	10/29/15 19:18	1

Lab Sample ID: LCS 400-280268/2-A
Matrix: Solid
Analysis Batch: 281232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280268

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Copper	99.6	104		mg/Kg		104	80 - 120
Iron	996	1090		mg/Kg		109	80 - 120
Magnesium	996	1060		mg/Kg		106	80 - 120
Manganese	99.6	103		mg/Kg		104	80 - 120
Potassium	996	995		mg/Kg		100	80 - 120

Lab Sample ID: 660-69974-1 MS
Matrix: Solid
Analysis Batch: 281232

Client Sample ID: HM 8.0SED (10/21/2015)
Prep Type: Total/NA
Prep Batch: 280268

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Copper	3.3		91.7	95.0		mg/Kg		100	75 - 125
Iron	2300	J3	917	3310		mg/Kg		114	75 - 125
Magnesium	560		917	1550		mg/Kg		108	75 - 125
Manganese	7.5		91.7	95.3		mg/Kg		96	75 - 125
Potassium	120		917	1030		mg/Kg		99	75 - 125

Lab Sample ID: 660-69974-1 MSD
Matrix: Solid
Analysis Batch: 281232

Client Sample ID: HM 8.0SED (10/21/2015)
Prep Type: Total/NA
Prep Batch: 280268

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Copper	3.3		97.2	104		mg/Kg		104	75 - 125	9	20
Iron	2300	J3	972	3530	J3	mg/Kg		130	75 - 125	6	20
Magnesium	560		972	1670		mg/Kg		114	75 - 125	7	20
Manganese	7.5		97.2	104		mg/Kg		99	75 - 125	9	20
Potassium	120		972	1090		mg/Kg		99	75 - 125	6	20

Lab Sample ID: MB 400-281286/1-A
Matrix: Solid
Analysis Batch: 281870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 281286

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.20	U	1.0	0.20	mg/Kg		10/31/15 13:21	11/03/15 19:19	1
Iron	5.0	U	10	5.0	mg/Kg		10/31/15 13:21	11/03/15 19:19	1
Magnesium	3.0	U	50	3.0	mg/Kg		10/31/15 13:21	11/03/15 19:19	1
Manganese	0.10	U	1.0	0.10	mg/Kg		10/31/15 13:21	11/03/15 19:19	1
Potassium	10	U	100	10	mg/Kg		10/31/15 13:21	11/03/15 19:19	1

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: LCS 400-281286/2-A
Matrix: Solid
Analysis Batch: 281870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 281286

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Copper	99.3	96.5		mg/Kg		97	80 - 120
Iron	993	968		mg/Kg		97	80 - 120
Magnesium	993	976		mg/Kg		98	80 - 120
Manganese	99.3	95.7		mg/Kg		96	80 - 120
Potassium	993	950		mg/Kg		96	80 - 120

Lab Sample ID: 660-70002-8 MS
Matrix: Solid
Analysis Batch: 281870

Client Sample ID: WW9.5SED(10/22/2015)
Prep Type: Total/NA
Prep Batch: 281286

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Copper	0.19	I	91.3	89.4		mg/Kg		98	75 - 125
Iron	75		913	982		mg/Kg		99	75 - 125
Magnesium	26	I	913	922		mg/Kg		98	75 - 125
Manganese	0.45	I	91.3	88.9		mg/Kg		97	75 - 125
Potassium	12	I	913	900		mg/Kg		97	75 - 125

Lab Sample ID: 660-70002-8 MSD
Matrix: Solid
Analysis Batch: 281870

Client Sample ID: WW9.5SED(10/22/2015)
Prep Type: Total/NA
Prep Batch: 281286

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Copper	0.19	I	94.4	91.5		mg/Kg		97	75 - 125	2	20
Iron	75		944	1030		mg/Kg		102	75 - 125	5	20
Magnesium	26	I	944	952		mg/Kg		98	75 - 125	3	20
Manganese	0.45	I	94.4	91.5		mg/Kg		96	75 - 125	3	20
Potassium	12	I	944	923		mg/Kg		97	75 - 125	3	20

Lab Sample ID: MB 400-281398/1-A
Matrix: Solid
Analysis Batch: 281870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 281398

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.20	U	1.0	0.20	mg/Kg		10/31/15 13:21	11/03/15 21:07	1
Iron	5.0	U	10	5.0	mg/Kg		10/31/15 13:21	11/03/15 21:07	1
Magnesium	3.0	U	50	3.0	mg/Kg		10/31/15 13:21	11/03/15 21:07	1
Manganese	0.10	U	1.0	0.10	mg/Kg		10/31/15 13:21	11/03/15 21:07	1
Potassium	10	U	100	10	mg/Kg		10/31/15 13:21	11/03/15 21:07	1

Lab Sample ID: LCS 400-281398/2-A
Matrix: Solid
Analysis Batch: 281870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 281398

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Copper	98.4	94.4		mg/Kg		96	80 - 120
Iron	984	951		mg/Kg		97	80 - 120
Magnesium	984	948		mg/Kg		96	80 - 120
Manganese	98.4	93.9		mg/Kg		95	80 - 120
Potassium	984	934		mg/Kg		95	80 - 120

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 660-162343/1-A
Matrix: Water
Analysis Batch: 162381

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 162343

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Copper	2.5	U	10	2.5	ug/L		10/15/15 12:57	10/16/15 08:23	1
Iron	50	U	200	50	ug/L		10/15/15 12:57	10/16/15 08:23	1
Magnesium	20	U	80	20	ug/L		10/15/15 12:57	10/16/15 08:23	1
Potassium	190	U	1000	190	ug/L		10/15/15 12:57	10/16/15 08:23	1
Manganese	1.0	U	4.0	1.0	ug/L		10/15/15 12:57	10/16/15 08:23	1

Lab Sample ID: LCS 660-162343/2-A
Matrix: Water
Analysis Batch: 162381

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 162343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Iron	1000	1040		ug/L		104	80 - 120	
Magnesium	1000	1030		ug/L		103	80 - 120	
Potassium	25000	25100		ug/L		101	80 - 120	
Manganese	1000	1050		ug/L		105	80 - 120	

Lab Sample ID: MB 660-162719/1-A
Matrix: Water
Analysis Batch: 162808

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 162719

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Copper	2.5	U	10	2.5	ug/L		10/27/15 10:51	10/28/15 16:00	1
Iron	50	U	200	50	ug/L		10/27/15 10:51	10/28/15 16:00	1
Magnesium	20	U	80	20	ug/L		10/27/15 10:51	10/28/15 16:00	1
Potassium	190	U	1000	190	ug/L		10/27/15 10:51	10/28/15 16:00	1
Manganese	1.0	U	4.0	1.0	ug/L		10/27/15 10:51	10/28/15 16:00	1

Lab Sample ID: LCS 660-162719/2-A
Matrix: Water
Analysis Batch: 162808

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 162719

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Iron	1000	985		ug/L		98	80 - 120	
Magnesium	1000	1030		ug/L		103	80 - 120	
Potassium	25000	24300		ug/L		97	80 - 120	
Manganese	1000	1030		ug/L		103	80 - 120	

Lab Sample ID: 660-69823-2 MS
Matrix: Water
Analysis Batch: 162808

Client Sample ID: CZ 0.5 SW (10/14/2015)
Prep Type: Total Recoverable
Prep Batch: 162719

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	Limits
Iron	50	U	1000	1020		ug/L		102	80 - 120	
Magnesium	22000	J3	1000	22800	J3	ug/L		46	80 - 120	
Potassium	4700		25000	30300		ug/L		102	80 - 120	
Manganese	1.0	U	1000	1010		ug/L		101	80 - 120	

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: 660-69823-2 MSD
Matrix: Water
Analysis Batch: 162808

Client Sample ID: CZ 0.5 SW (10/14/2015)
Prep Type: Total Recoverable
Prep Batch: 162719

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Copper	2.5	U	1000	1030		ug/L		103	80 - 120	2	20
Iron	50	U	1000	1040		ug/L		104	80 - 120	2	20
Magnesium	22000	J3	1000	23400		ug/L		100	80 - 120	2	20
Potassium	4700		25000	30900		ug/L		105	80 - 120	2	20
Manganese	1.0	U	1000	1020		ug/L		102	80 - 120	1	20

Lab Sample ID: MB 660-162769/1-A
Matrix: Water
Analysis Batch: 162833

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 162769

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Copper	2.5	U	10	2.5	ug/L		10/28/15 09:13	10/29/15 09:40	1
Iron	50	U	200	50	ug/L		10/28/15 09:13	10/29/15 09:40	1
Magnesium	20	U	80	20	ug/L		10/28/15 09:13	10/29/15 09:40	1
Potassium	190	U	1000	190	ug/L		10/28/15 09:13	10/29/15 09:40	1
Manganese	1.0	U	4.0	1.0	ug/L		10/28/15 09:13	10/29/15 09:40	1

Lab Sample ID: LCS 660-162769/2-A
Matrix: Water
Analysis Batch: 162833

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 162769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Copper	1000	1000		ug/L		100	80 - 120
Iron	1000	987		ug/L		99	80 - 120
Magnesium	1000	1040		ug/L		104	80 - 120
Potassium	25000	24400		ug/L		98	80 - 120
Manganese	1000	1030		ug/L		103	80 - 120

Lab Sample ID: MB 660-162798/1-A
Matrix: Water
Analysis Batch: 163037

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 162798

Analyte	MB	MB	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Copper	2.5	U	10	2.5	ug/L		10/28/15 13:47	11/04/15 19:10	1
Iron	50	U	200	50	ug/L		10/28/15 13:47	11/04/15 19:10	1
Magnesium	20	U	80	20	ug/L		10/28/15 13:47	11/04/15 19:10	1
Potassium	190	U	1000	190	ug/L		10/28/15 13:47	11/04/15 19:10	1
Manganese	1.0	U	4.0	1.0	ug/L		10/28/15 13:47	11/04/15 19:10	1

Lab Sample ID: LCS 660-162798/2-A
Matrix: Water
Analysis Batch: 163037

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 162798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
Copper	1000	1020		ug/L		102	80 - 120
Iron	1000	972		ug/L		97	80 - 120
Magnesium	1000	998		ug/L		100	80 - 120
Potassium	25000	25000		ug/L		100	80 - 120
Manganese	1000	994		ug/L		99	80 - 120

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 660-69852-5 MS

Matrix: Water

Analysis Batch: 163037

Client Sample ID: CZ 5.5 SW (10/15/2015)

Prep Type: Total Recoverable

Prep Batch: 162798

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Copper	3.1	I	1000	1030		ug/L		103	80 - 120
Iron	170	I	1000	1110		ug/L		94	80 - 120
Magnesium	62000	J3	1000	63000		ug/L		116	80 - 120
Potassium	20000		25000	45300		ug/L		101	80 - 120
Manganese	1.6	I	1000	977		ug/L		98	80 - 120

Lab Sample ID: 660-69852-5 MSD

Matrix: Water

Analysis Batch: 163037

Client Sample ID: CZ 5.5 SW (10/15/2015)

Prep Type: Total Recoverable

Prep Batch: 162798

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Copper	3.1	I	1000	1050		ug/L		105	80 - 120	2	20
Iron	170	I	1000	1150		ug/L		98	80 - 120	4	20
Magnesium	62000	J3	1000	63000	J3	ug/L		121	80 - 120	0	20
Potassium	20000		25000	46200		ug/L		104	80 - 120	2	20
Manganese	1.6	I	1000	987		ug/L		99	80 - 120	1	20

Lab Sample ID: MB 660-162846/1-A

Matrix: Water

Analysis Batch: 163018

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 162846

Analyte	MB		PQL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
Copper	2.5	U	10	2.5	ug/L		10/29/15 11:30	11/04/15 08:34			1
Iron	50	U	200	50	ug/L		10/29/15 11:30	11/04/15 08:34			1
Magnesium	20	U	80	20	ug/L		10/29/15 11:30	11/04/15 08:34			1
Potassium	190	U	1000	190	ug/L		10/29/15 11:30	11/04/15 08:34			1
Manganese	1.0	U	4.0	1.0	ug/L		10/29/15 11:30	11/04/15 08:34			1

Lab Sample ID: LCS 660-162846/2-A

Matrix: Water

Analysis Batch: 163018

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 162846

Analyte	Spike	LCS		Unit	D	%Rec	Limits
		Added	Result				
Copper	1000	1030		ug/L		103	80 - 120
Iron	1000	997		ug/L		100	80 - 120
Magnesium	1000	1050		ug/L		105	80 - 120
Potassium	25000	25300		ug/L		101	80 - 120
Manganese	1000	1030		ug/L		103	80 - 120

Lab Sample ID: 660-69893-3 MS

Matrix: Water

Analysis Batch: 163018

Client Sample ID: HM 9.5 SW (10/19/2015)

Prep Type: Total Recoverable

Prep Batch: 162846

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Copper	3.0	I	1000	1050		ug/L		105	80 - 120
Iron	160	I	1000	1150		ug/L		99	80 - 120
Magnesium	88000	J3	1000	89000		ug/L		94	80 - 120
Potassium	29000		25000	54900		ug/L		104	80 - 120
Manganese	3.6	I	1000	1020		ug/L		102	80 - 120

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: 660-69893-3 MSD
Matrix: Water
Analysis Batch: 163018

Client Sample ID: HM 9.5 SW (10/19/2015)
Prep Type: Total Recoverable
Prep Batch: 162846

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	3.0	I	1000	1060		ug/L		106	80 - 120	1	20
Iron	160	I	1000	1120		ug/L		96	80 - 120	2	20
Magnesium	88000	J3	1000	84200	J3	ug/L		-383	80 - 120	5	20
Potassium	29000		25000	54200		ug/L		101	80 - 120	1	20
Manganese	3.6	I	1000	1010		ug/L		100	80 - 120	1	20

Lab Sample ID: MB 660-162895/1-A
Matrix: Water
Analysis Batch: 163037

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 162895

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/30/15 11:30	11/04/15 17:53	1
Iron	50	U	200	50	ug/L		10/30/15 11:30	11/04/15 17:53	1
Magnesium	20	U	80	20	ug/L		10/30/15 11:30	11/04/15 17:53	1
Potassium	190	U	1000	190	ug/L		10/30/15 11:30	11/04/15 17:53	1
Manganese	1.0	U	4.0	1.0	ug/L		10/30/15 11:30	11/04/15 17:53	1

Lab Sample ID: LCS 660-162895/2-A
Matrix: Water
Analysis Batch: 163037

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 162895

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	1000	1050		ug/L		105	80 - 120
Iron	1000	1010		ug/L		101	80 - 120
Magnesium	1000	973		ug/L		97	80 - 120
Potassium	25000	25400		ug/L		102	80 - 120
Manganese	1000	999		ug/L		100	80 - 120

Lab Sample ID: 660-69919-1 MS
Matrix: Water
Analysis Batch: 163037

Client Sample ID: HM8.5 SW (10/20/2015)
Prep Type: Total Recoverable
Prep Batch: 162895

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	3.9	I	1000	1080		ug/L		108	80 - 120
Iron	140	I	1000	1100		ug/L		97	80 - 120
Magnesium	110000	J3	1000	113000	J3	ug/L		167	80 - 120
Potassium	42000		25000	66100		ug/L		96	80 - 120
Manganese	4.8		1000	994		ug/L		99	80 - 120

Lab Sample ID: MB 660-162908/1-A
Matrix: Water
Analysis Batch: 163065

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 162908

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/30/15 16:40	11/05/15 09:16	1
Iron	50	U	200	50	ug/L		10/30/15 16:40	11/05/15 09:16	1
Magnesium	20	U	80	20	ug/L		10/30/15 16:40	11/05/15 09:16	1
Potassium	190	U	1000	190	ug/L		10/30/15 16:40	11/05/15 09:16	1
Manganese	1.0	U	4.0	1.0	ug/L		10/30/15 16:40	11/05/15 09:16	1

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 660-162908/2-A
Matrix: Water
Analysis Batch: 163065

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 162908

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Copper	1000	1050		ug/L		105	80 - 120
Iron	1000	1050		ug/L		105	80 - 120
Magnesium	1000	1060		ug/L		106	80 - 120
Potassium	25000	25500		ug/L		102	80 - 120
Manganese	1000	1060		ug/L		106	80 - 120

Lab Sample ID: 660-70053-7 MS
Matrix: Water
Analysis Batch: 163065

Client Sample ID: WW5.5 SW (10/26/2015)
Prep Type: Total Recoverable
Prep Batch: 162908

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Copper	2.5	U	1000	1040		ug/L		104	80 - 120
Iron	50	U	1000	1040		ug/L		104	80 - 120
Magnesium	6600	J3	1000	7280	J3	ug/L		72	80 - 120
Potassium	470	I	25000	25900		ug/L		102	80 - 120
Manganese	1.0	U	1000	1030		ug/L		103	80 - 120

Lab Sample ID: 660-70053-7 MSD
Matrix: Water
Analysis Batch: 163065

Client Sample ID: WW5.5 SW (10/26/2015)
Prep Type: Total Recoverable
Prep Batch: 162908

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Copper	2.5	U	1000	1040		ug/L		104	80 - 120	0	20
Iron	50	U	1000	1030		ug/L		103	80 - 120	0	20
Magnesium	6600	J3	1000	7350	J3	ug/L		78	80 - 120	1	20
Potassium	470	I	25000	25800		ug/L		101	80 - 120	0	20
Manganese	1.0	U	1000	1040		ug/L		104	80 - 120	1	20

Lab Sample ID: MB 660-162982/1-A
Matrix: Water
Analysis Batch: 163037

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 162982

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		12/03/15 10:30	11/04/15 20:55	1
Iron	50	U	200	50	ug/L		12/03/15 10:30	11/04/15 20:55	1
Magnesium	23.0	I	80	20	ug/L		12/03/15 10:30	11/04/15 20:55	1
Potassium	190	U	1000	190	ug/L		12/03/15 10:30	11/04/15 20:55	1
Manganese	1.0	U	4.0	1.0	ug/L		12/03/15 10:30	11/04/15 20:55	1

Lab Sample ID: LCS 660-162982/2-A
Matrix: Water
Analysis Batch: 163037

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 162982

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Copper	1000	1030		ug/L		103	80 - 120
Iron	1000	985		ug/L		98	80 - 120
Magnesium	1000	1020		ug/L		102	80 - 120
Potassium	25000	25500		ug/L		102	80 - 120
Manganese	1000	1010		ug/L		101	80 - 120

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: 660-69919-7 MS
Matrix: Water
Analysis Batch: 163037

Client Sample ID: HM5.5 SW (10-20-2015)
Prep Type: Total Recoverable
Prep Batch: 162982

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Copper	2.5	U	1000	1050		ug/L		105	80 - 120
Iron	150	I	1000	1100		ug/L		95	80 - 120
Magnesium	64000	J3	1000	66100	J3	ug/L		185	80 - 120
Potassium	21000		25000	47000		ug/L		104	80 - 120
Manganese	2.0	I	1000	1010		ug/L		101	80 - 120

Lab Sample ID: 660-69919-7 MSD
Matrix: Water
Analysis Batch: 163037

Client Sample ID: HM5.5 SW (10-20-2015)
Prep Type: Total Recoverable
Prep Batch: 162982

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Copper	2.5	U	1000	1050		ug/L		105	80 - 120	0	20
Iron	150	I	1000	1100		ug/L		96	80 - 120	0	20
Magnesium	64000	J3	1000	66100	J3	ug/L		191	80 - 120	0	20
Potassium	21000		25000	46900		ug/L		104	80 - 120	0	20
Manganese	2.0	I	1000	1010		ug/L		101	80 - 120	0	20

Lab Sample ID: MB 660-163023/1-A
Matrix: Water
Analysis Batch: 163037

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 163023

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		11/04/15 07:41	11/04/15 13:31	1
Iron	50	U	200	50	ug/L		11/04/15 07:41	11/04/15 13:31	1
Magnesium	20	U	80	20	ug/L		11/04/15 07:41	11/04/15 13:31	1
Potassium	190	U	1000	190	ug/L		11/04/15 07:41	11/04/15 13:31	1
Manganese	1.0	U	4.0	1.0	ug/L		11/04/15 07:41	11/04/15 13:31	1

Lab Sample ID: LCS 660-163023/2-A
Matrix: Water
Analysis Batch: 163037

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 163023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Copper	1000	1050		ug/L		105	80 - 120
Iron	1000	1020		ug/L		102	80 - 120
Magnesium	1000	1010		ug/L		101	80 - 120
Potassium	25000	25200		ug/L		101	80 - 120
Manganese	1000	1020		ug/L		102	80 - 120

Lab Sample ID: MB 660-163060/1-A
Matrix: Water
Analysis Batch: 163084

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 163060

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		11/05/15 08:32	11/05/15 12:47	1
Iron	50	U	200	50	ug/L		11/05/15 08:32	11/05/15 12:47	1
Magnesium	20	U	80	20	ug/L		11/05/15 08:32	11/05/15 12:47	1
Potassium	190	U	1000	190	ug/L		11/05/15 08:32	11/05/15 12:47	1
Manganese	1.0	U	4.0	1.0	ug/L		11/05/15 08:32	11/05/15 12:47	1

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 660-163060/2-A
Matrix: Water
Analysis Batch: 163084

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 163060

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Copper	1000	1030		ug/L		103	80 - 120
Iron	1000	1020		ug/L		102	80 - 120
Magnesium	1000	1040		ug/L		104	80 - 120
Potassium	25000	25300		ug/L		101	80 - 120
Manganese	1000	1040		ug/L		104	80 - 120

Lab Sample ID: MB 660-163079/1-A
Matrix: Water
Analysis Batch: 163084

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 163079

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		11/05/15 13:15	11/05/15 18:12	1
Iron	50	U	200	50	ug/L		11/05/15 13:15	11/05/15 18:12	1
Magnesium	20	U	80	20	ug/L		11/05/15 13:15	11/05/15 18:12	1
Potassium	190	U	1000	190	ug/L		11/05/15 13:15	11/05/15 18:12	1
Manganese	1.0	U	4.0	1.0	ug/L		11/05/15 13:15	11/05/15 18:12	1

Lab Sample ID: LCS 660-163079/2-A
Matrix: Water
Analysis Batch: 163084

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 163079

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Copper	1000	1020		ug/L		102	80 - 120
Iron	1000	996		ug/L		100	80 - 120
Magnesium	1000	1030		ug/L		103	80 - 120
Potassium	25000	25100		ug/L		100	80 - 120
Manganese	1000	1040		ug/L		104	80 - 120

Lab Sample ID: MB 660-162342/1-C
Matrix: Water
Analysis Batch: 162381

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 162343

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/15/15 13:00	10/16/15 12:06	1
Iron	50	U	200	50	ug/L		10/15/15 13:00	10/16/15 12:06	1
Magnesium	20	U	80	20	ug/L		10/15/15 13:00	10/16/15 12:06	1
Potassium	190	U	1000	190	ug/L		10/15/15 13:00	10/16/15 12:06	1
Manganese	1.0	U	4.0	1.0	ug/L		10/15/15 13:00	10/16/15 12:06	1

Lab Sample ID: MB 660-162728/1-B
Matrix: Water
Analysis Batch: 162808

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 162719

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	2.5	U	10	2.5	ug/L		10/27/15 10:57	10/28/15 16:57	1
Iron	50	U	200	50	ug/L		10/27/15 10:57	10/28/15 16:57	1
Magnesium	20	U	80	20	ug/L		10/27/15 10:57	10/28/15 16:57	1
Potassium	190	U	1000	190	ug/L		10/27/15 10:57	10/28/15 16:57	1
Manganese	1.0	U	4.0	1.0	ug/L		10/27/15 10:57	10/28/15 16:57	1

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: MB 660-162768/1-B
Matrix: Water
Analysis Batch: 162833

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 162769

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Copper	2.5	U	10	2.5	ug/L		10/28/15 09:13	10/29/15 10:59	1
Iron	50	U	200	50	ug/L		10/28/15 09:13	10/29/15 10:59	1
Magnesium	20	U	80	20	ug/L		10/28/15 09:13	10/29/15 10:59	1
Potassium	190	U	1000	190	ug/L		10/28/15 09:13	10/29/15 10:59	1
Manganese	1.0	U	4.0	1.0	ug/L		10/28/15 09:13	10/29/15 10:59	1

Lab Sample ID: MB 660-162799/1-B
Matrix: Water
Analysis Batch: 163037

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 162798

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Copper	2.5	U	10	2.5	ug/L		10/28/15 13:49	11/04/15 20:07	1
Iron	50	U	200	50	ug/L		10/28/15 13:49	11/04/15 20:07	1
Magnesium	29.2	I	80	20	ug/L		10/28/15 13:49	11/04/15 20:07	1
Potassium	190	U	1000	190	ug/L		10/28/15 13:49	11/04/15 20:07	1
Manganese	1.0	U	4.0	1.0	ug/L		10/28/15 13:49	11/04/15 20:07	1

Lab Sample ID: MB 660-162845/1-B
Matrix: Water
Analysis Batch: 163018

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 162846

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Copper	2.5	U	10	2.5	ug/L		10/29/15 11:29	11/04/15 09:43	1
Iron	50	U	200	50	ug/L		10/29/15 11:29	11/04/15 09:43	1
Magnesium	20	U	80	20	ug/L		10/29/15 11:29	11/04/15 09:43	1
Potassium	190	U	1000	190	ug/L		10/29/15 11:29	11/04/15 09:43	1
Manganese	1.0	U	4.0	1.0	ug/L		10/29/15 11:29	11/04/15 09:43	1

Lab Sample ID: MB 660-162897/1-B
Matrix: Water
Analysis Batch: 163037

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 162895

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Copper	2.5	U	10	2.5	ug/L		10/30/15 12:48	11/04/15 18:39	1
Iron	50	U	200	50	ug/L		10/30/15 12:48	11/04/15 18:39	1
Magnesium	25.8	I	80	20	ug/L		10/30/15 12:48	11/04/15 18:39	1
Potassium	190	U	1000	190	ug/L		10/30/15 12:48	11/04/15 18:39	1
Manganese	1.0	U	4.0	1.0	ug/L		10/30/15 12:48	11/04/15 18:39	1

Lab Sample ID: MB 660-162907/1-B
Matrix: Water
Analysis Batch: 163065

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 162908

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Copper	2.5	U	10	2.5	ug/L		10/30/15 16:40	11/05/15 09:32	1
Iron	50	U	200	50	ug/L		10/30/15 16:40	11/05/15 09:32	1
Magnesium	20	U	80	20	ug/L		10/30/15 16:40	11/05/15 09:32	1
Potassium	190	U	1000	190	ug/L		10/30/15 16:40	11/05/15 09:32	1
Manganese	0.0010	U	0.0040	0.0010	mg/L		10/30/15 16:40	11/05/15 09:32	1

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 660-162980/1-B
Matrix: Water
Analysis Batch: 163037

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 162982

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Copper	2.5	U	10	2.5	ug/L		12/03/15 10:30	11/04/15 21:55	1
Iron	50	U	200	50	ug/L		12/03/15 10:30	11/04/15 21:55	1
Magnesium	33.5	I	80	20	ug/L		12/03/15 10:30	11/04/15 21:55	1
Potassium	190	U	1000	190	ug/L		12/03/15 10:30	11/04/15 21:55	1
Manganese	1.0	U	4.0	1.0	ug/L		12/03/15 10:30	11/04/15 21:55	1

Lab Sample ID: MB 660-163006/1-B
Matrix: Water
Analysis Batch: 163037

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 163023

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Copper	2.5	U	10	2.5	ug/L		11/04/15 07:41	11/04/15 14:53	1
Iron	50	U	200	50	ug/L		11/04/15 07:41	11/04/15 14:53	1
Magnesium	20	U	80	20	ug/L		11/04/15 07:41	11/04/15 14:53	1
Potassium	190	U	1000	190	ug/L		11/04/15 07:41	11/04/15 14:53	1
Manganese	1.0	U	4.0	1.0	ug/L		11/04/15 07:41	11/04/15 14:53	1

Lab Sample ID: MB 660-163006/1-C
Matrix: Water
Analysis Batch: 163084

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 163060

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Copper	2.5	U	10	2.5	ug/L		11/05/15 08:32	11/05/15 14:22	1
Iron	50	U	200	50	ug/L		11/05/15 08:32	11/05/15 14:22	1
Magnesium	20	U	80	20	ug/L		11/05/15 08:32	11/05/15 14:22	1
Potassium	190	U	1000	190	ug/L		11/05/15 08:32	11/05/15 14:22	1
Manganese	1.0	U	4.0	1.0	ug/L		11/05/15 08:32	11/05/15 14:22	1

Lab Sample ID: MB 660-163078/1-B
Matrix: Water
Analysis Batch: 163100

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 163079

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Copper	2.5	U	10	2.5	ug/L		11/05/15 13:15	11/06/15 09:03	1
Iron	50	U	200	50	ug/L		11/05/15 13:15	11/06/15 09:03	1
Magnesium	20	U	80	20	ug/L		11/05/15 13:15	11/06/15 09:03	1
Potassium	190	U	1000	190	ug/L		11/05/15 13:15	11/06/15 09:03	1
Manganese	0.0010	U	0.0040	0.0010	mg/L		11/05/15 13:15	11/06/15 09:03	1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 400-272251/8
Matrix: Water
Analysis Batch: 272251

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

Analyte	MB MB		PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			08/31/15 14:02	1

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 400-272251/9
Matrix: Water
Analysis Batch: 272251

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	2.00	2.06		mg/L		103	90 - 110

Lab Sample ID: MRL 400-272251/3
Matrix: Water
Analysis Batch: 272251

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.0500	0.0389	I	mg/L		78	50 - 150

Lab Sample ID: MRL 400-272447/3
Matrix: Solid
Analysis Batch: 272447

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.0500	0.0295	I	mg/L		59	50 - 150

Lab Sample ID: MRL 400-280135/11
Matrix: Solid
Analysis Batch: 280135

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.0500	0.0356	I	mg/L		71	50 - 150

Lab Sample ID: MB 400-280774/16
Matrix: Water
Analysis Batch: 280774

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/27/15 16:12	1

Lab Sample ID: LCS 400-280774/17
Matrix: Water
Analysis Batch: 280774

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	2.00	2.01		mg/L		101	90 - 110

Lab Sample ID: MRL 400-280774/11
Matrix: Water
Analysis Batch: 280774

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.0500	0.0551		mg/L		110	50 - 150

Lab Sample ID: MB 400-280790/8
Matrix: Water
Analysis Batch: 280790

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/27/15 18:18	1

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: LCS 400-280790/9
Matrix: Water
Analysis Batch: 280790

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	2.00	1.99		mg/L		100	90 - 110

Lab Sample ID: MRL 400-280790/3
Matrix: Water
Analysis Batch: 280790

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.0500	0.0562		mg/L		112	50 - 150

Lab Sample ID: MB 400-281169/16
Matrix: Water
Analysis Batch: 281169

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/29/15 14:08	1

Lab Sample ID: LCS 400-281169/17
Matrix: Water
Analysis Batch: 281169

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	2.00	2.02		mg/L		101	90 - 110

Lab Sample ID: MRL 400-281169/11
Matrix: Water
Analysis Batch: 281169

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.0500	0.0339	I	mg/L		68	50 - 150

Lab Sample ID: MB 400-281200/8
Matrix: Water
Analysis Batch: 281200

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			10/29/15 15:39	1

Lab Sample ID: LCS 400-281200/9
Matrix: Water
Analysis Batch: 281200

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	2.00	2.03		mg/L		102	90 - 110

Lab Sample ID: MRL 400-281200/3
Matrix: Water
Analysis Batch: 281200

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.0500	0.0426	I	mg/L		85	50 - 150

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 660-69879-4 MS

Matrix: Water

Analysis Batch: 281200

Client Sample ID: CZ 7.5 PW (10/16/2015)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	1.0		1.00	1.93		mg/L		93	90 - 110

Lab Sample ID: 660-69879-4 MSD

Matrix: Water

Analysis Batch: 281200

Client Sample ID: CZ 7.5 PW (10/16/2015)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	1.0		1.00	1.94		mg/L		94	90 - 110	0	11

Lab Sample ID: 660-69919-4 MS

Matrix: Water

Analysis Batch: 281200

Client Sample ID: HM7.5 PW (10/20/2015)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.10	U	1.00	0.873	J3	mg/L		87	90 - 110

Lab Sample ID: 660-69919-4 MSD

Matrix: Water

Analysis Batch: 281200

Client Sample ID: HM7.5 PW (10/20/2015)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	0.10	U	1.00	0.871	J3	mg/L		87	90 - 110	0	11

Lab Sample ID: MRL 400-282015/11

Matrix: Solid

Analysis Batch: 282015

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.0500	0.0451	I	mg/L		90	50 - 150

Lab Sample ID: MB 400-282186/8

Matrix: Water

Analysis Batch: 282186

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			11/05/15 13:08	1

Lab Sample ID: LCS 400-282186/9

Matrix: Water

Analysis Batch: 282186

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	2.00	1.95		mg/L		97	90 - 110

Lab Sample ID: MRL 400-282186/3

Matrix: Water

Analysis Batch: 282186

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.0500	0.0588		mg/L		118	50 - 150

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: MB 400-282218/8
Matrix: Water
Analysis Batch: 282218

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			11/05/15 16:10	1

Lab Sample ID: LCS 400-282218/9
Matrix: Water
Analysis Batch: 282218

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	2.00	1.96		mg/L		98	90 - 110

Lab Sample ID: MRL 400-282218/3
Matrix: Water
Analysis Batch: 282218

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.0500	0.0588		mg/L		118	50 - 150

Lab Sample ID: MB 400-282233/16
Matrix: Water
Analysis Batch: 282233

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.020	U	0.050	0.020	mg/L			11/05/15 18:01	1

Lab Sample ID: LCS 400-282233/17
Matrix: Water
Analysis Batch: 282233

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	2.00	1.98		mg/L		99	90 - 110

Lab Sample ID: MRL 400-282233/11
Matrix: Water
Analysis Batch: 282233

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.0500	0.0601		mg/L		120	50 - 150

Lab Sample ID: MB 400-272377/4-A
Matrix: Solid
Analysis Batch: 272447

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			09/01/15 15:12	1

Lab Sample ID: LCS 400-272377/5-A
Matrix: Solid
Analysis Batch: 272447

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	40.0	38.5		mg/Kg		96	90 - 110

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 660-68566-3 MS

Matrix: Solid

Analysis Batch: 272447

Client Sample ID: CZ 10 SED (08/12/2015)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.93	I J3	19.6	18.1	J3	mg/Kg		88	90 - 110

Lab Sample ID: 660-68566-3 MSD

Matrix: Solid

Analysis Batch: 272447

Client Sample ID: CZ 10 SED (08/12/2015)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	0.93	I J3	19.6	17.9	J3	mg/Kg		87	90 - 110	1	11

Lab Sample ID: MB 400-280027/4-A

Matrix: Solid

Analysis Batch: 280135

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			10/22/15 16:22	1

Lab Sample ID: MB 400-280072/4-A

Matrix: Solid

Analysis Batch: 280135

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			10/22/15 17:29	1

Lab Sample ID: LCS 400-280027/5-A

Matrix: Solid

Analysis Batch: 280135

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	40.0	40.1		mg/Kg		100	90 - 110

Lab Sample ID: LCS 400-280072/5-A

Matrix: Solid

Analysis Batch: 280135

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	40.0	40.5		mg/Kg		101	90 - 110

Lab Sample ID: 660-69823-1 MS

Matrix: Solid

Analysis Batch: 280135

Client Sample ID: CZ 0.5 SED (10/14/2015)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	1.0		19.7	21.3		mg/Kg		103	90 - 110

Lab Sample ID: 660-69823-1 MSD

Matrix: Solid

Analysis Batch: 280135

Client Sample ID: CZ 0.5 SED (10/14/2015)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	1.0		19.9	21.6		mg/Kg		103	90 - 110	1	11

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: 660-69852-12 MS
Matrix: Solid
Analysis Batch: 280135

Client Sample ID: CZ 5.5 SED (10/15/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	1.8		19.9	21.6		mg/Kg		100	90 - 110

Lab Sample ID: 660-69852-12 MSD
Matrix: Solid
Analysis Batch: 280135

Client Sample ID: CZ 5.5 SED (10/15/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	1.8		19.6	21.6		mg/Kg		101	90 - 110	0	11

Lab Sample ID: 660-69893-6 MS
Matrix: Solid
Analysis Batch: 280135

Client Sample ID: HM 10.0 SED (10/19/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	5.1	J3	19.9	23.3		mg/Kg		91	90 - 110

Lab Sample ID: 660-69893-6 MSD
Matrix: Solid
Analysis Batch: 280135

Client Sample ID: HM 10.0 SED (10/19/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	5.1	J3	19.6	22.3	J3	mg/Kg		88	90 - 110	4	11

Lab Sample ID: MB 400-281561/4-A
Matrix: Solid
Analysis Batch: 282015

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 19:24	1

Lab Sample ID: MB 400-281583/4-A
Matrix: Solid
Analysis Batch: 282015

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 19:28	1

Lab Sample ID: MB 400-281583/4-A
Matrix: Solid
Analysis Batch: 282015

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (as N)	0.32	U	1.0	0.32	mg/Kg			11/04/15 20:02	1

Lab Sample ID: LCS 400-281561/5-A
Matrix: Solid
Analysis Batch: 282015

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	40.0	39.2		mg/Kg		98	90 - 110

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 400-281583/5-A
Matrix: Solid
Analysis Batch: 282015

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	40.0	39.0		mg/Kg		97	90 - 110

Lab Sample ID: 660-69974-1 MS
Matrix: Solid
Analysis Batch: 282015

Client Sample ID: HM 8.0SED (10/21/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.32	U J3	20.0	22.7	J3	mg/Kg		114	90 - 110

Lab Sample ID: 660-69974-1 MSD
Matrix: Solid
Analysis Batch: 282015

Client Sample ID: HM 8.0SED (10/21/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	0.32	U J3	20.0	23.5	J3	mg/Kg		118	90 - 110	3	11

Lab Sample ID: 660-69974-11 MS
Matrix: Solid
Analysis Batch: 282015

Client Sample ID: HM 3.0 SED (10/21/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	0.32	U J3	20.0	30.3	J3	mg/Kg		152	90 - 110

Lab Sample ID: 660-69974-11 MSD
Matrix: Solid
Analysis Batch: 282015

Client Sample ID: HM 3.0 SED (10/21/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	0.32	U J3	20.0	30.1	J3	mg/Kg		150	90 - 110	1	11

Lab Sample ID: 660-70026-7 MS
Matrix: Solid
Analysis Batch: 282015

Client Sample ID: WW7.0SED(10/23/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	1.6	U J3	19.8	21.0		mg/Kg		107	90 - 110

Lab Sample ID: 660-70026-7 MSD
Matrix: Solid
Analysis Batch: 282015

Client Sample ID: WW7.0SED(10/23/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	1.6	U J3	19.8	21.9	J3	mg/Kg		111	90 - 110	4	11

Lab Sample ID: 660-70082-6 MS
Matrix: Solid
Analysis Batch: 282015

Client Sample ID: WW2.5 SED (10/27/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia (as N)	3.3		20.0	24.7		mg/Kg		107	90 - 110

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: 660-70082-6 MSD
Matrix: Solid
Analysis Batch: 282015

Client Sample ID: WW2.5 SED (10/27/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ammonia (as N)	3.3		20.0	23.4		mg/Kg		100	90 - 110	6	11

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 400-272357/1-A
Matrix: Water
Analysis Batch: 272680

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 272357

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		09/01/15 10:06	09/02/15 14:34	1

Lab Sample ID: LCS 400-272357/2-A
Matrix: Water
Analysis Batch: 272680

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 272357

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	10.0	9.56		mg/L		96	90 - 110

Lab Sample ID: MB 400-272362/1-A
Matrix: Solid
Analysis Batch: 272696

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 272362

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	8.8	U	17	8.8	mg/Kg		09/01/15 10:17	09/02/15 15:38	1

Lab Sample ID: LCS 400-272362/2-A
Matrix: Solid
Analysis Batch: 272696

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 272362

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	379	359		mg/Kg		95	75 - 125

Lab Sample ID: 660-68566-3 MS
Matrix: Solid
Analysis Batch: 272696

Client Sample ID: CZ 10 SED (08/12/2015)
Prep Type: Total/NA
Prep Batch: 272362

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	230	J3	92.6	368	J3	mg/Kg		153	90 - 110

Lab Sample ID: 660-68566-3 MSD
Matrix: Solid
Analysis Batch: 272696

Client Sample ID: CZ 10 SED (08/12/2015)
Prep Type: Total/NA
Prep Batch: 272362

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Kjeldahl Nitrogen	230	J3	99.0	495	J3	mg/Kg		271	90 - 110	29	20

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: MRL 400-272680/11
Matrix: Water
Analysis Batch: 272680

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	0.500	0.475	I	mg/L		95	50 - 150

Lab Sample ID: MRL 400-272696/11
Matrix: Solid
Analysis Batch: 272696

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	0.500	0.570		mg/Kg		114	

Lab Sample ID: MB 400-279167/1-B
Matrix: Solid
Analysis Batch: 279703

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279168

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	11	U	22	11	mg/Kg		10/16/15 10:18	10/20/15 15:20	1

Lab Sample ID: LCS 400-279167/2-B
Matrix: Solid
Analysis Batch: 279703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279168

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	294	300		mg/Kg		102	75 - 125

Lab Sample ID: MB 400-279474/1-A
Matrix: Water
Analysis Batch: 279716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279474

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/19/15 11:22	10/20/15 16:12	1

Lab Sample ID: LCS 400-279474/2-A
Matrix: Water
Analysis Batch: 279716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279474

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	10.0	10.5		mg/L		105	90 - 110

Lab Sample ID: 660-69823-2 MS
Matrix: Water
Analysis Batch: 279716

Client Sample ID: CZ 0.5 SW (10/14/2015)
Prep Type: Total/NA
Prep Batch: 279474

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	0.26	U J3	4.00	4.50	J3	mg/L		112	90 - 110

Lab Sample ID: 660-69823-2 MSD
Matrix: Water
Analysis Batch: 279716

Client Sample ID: CZ 0.5 SW (10/14/2015)
Prep Type: Total/NA
Prep Batch: 279474

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Kjeldahl Nitrogen	0.26	U J3	4.00	4.22		mg/L		105	90 - 110	6	22

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: MRL 400-279703/11
Matrix: Solid
Analysis Batch: 279703

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	0.500	0.478	I	mg/Kg		96	

Lab Sample ID: MB 400-279705/1-A
Matrix: Solid
Analysis Batch: 280105

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279705

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	8.6	U	16	8.6	mg/Kg		10/20/15 16:06	10/22/15 15:10	1

Lab Sample ID: LCS 400-279705/2-A
Matrix: Solid
Analysis Batch: 280105

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279705

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	424	428		mg/Kg		101	75 - 125

Lab Sample ID: 660-69879-7 MS
Matrix: Solid
Analysis Batch: 280105

Client Sample ID: CZ 6.5 SED (10/16/2015)
Prep Type: Total/NA
Prep Batch: 279705

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	200	J3	294	544	J3	mg/Kg		118	90 - 110

Lab Sample ID: 660-69879-7 MSD
Matrix: Solid
Analysis Batch: 280105

Client Sample ID: CZ 6.5 SED (10/16/2015)
Prep Type: Total/NA
Prep Batch: 279705

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Kjeldahl Nitrogen	200	J3	150	348	J3	mg/Kg		101	90 - 110	44	20

Lab Sample ID: MRL 400-279716/11
Matrix: Water
Analysis Batch: 279716

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	0.500	0.429	I	mg/L		86	50 - 150

Lab Sample ID: MB 400-279717/1-A
Matrix: Water
Analysis Batch: 280087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279717

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/20/15 16:49	10/22/15 14:15	1

Lab Sample ID: LCS 400-279717/2-A
Matrix: Water
Analysis Batch: 280087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279717

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	10.0	10.1		mg/L		101	90 - 110

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: 660-69852-5 MS

Matrix: Water

Analysis Batch: 280087

Client Sample ID: CZ 5.5 SW (10/15/2015)

Prep Type: Total/NA

Prep Batch: 279717

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	0.26	U J3	4.00	4.59	J3	mg/L		115	90 - 110

Lab Sample ID: 660-69852-5 MSD

Matrix: Water

Analysis Batch: 280087

Client Sample ID: CZ 5.5 SW (10/15/2015)

Prep Type: Total/NA

Prep Batch: 279717

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Total Kjeldahl Nitrogen	0.26	U J3	4.00	3.85		mg/L		96	90 - 110	18	22

Lab Sample ID: MB 400-280026/1-A

Matrix: Water

Analysis Batch: 280655

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 280026

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/22/15 10:35	10/27/15 09:15	1

Lab Sample ID: LCS 400-280026/2-A

Matrix: Water

Analysis Batch: 280655

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 280026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	10.0	10.4		mg/L		104	90 - 110

Lab Sample ID: MB 400-280056/1-A

Matrix: Solid

Analysis Batch: 280655

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 280056

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	7.32	I	13	6.8	mg/Kg		10/22/15 11:41	10/27/15 09:37	1

Lab Sample ID: LCS 400-280056/2-A

Matrix: Solid

Analysis Batch: 280655

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 280056

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	410	422		mg/Kg		103	75 - 125

Lab Sample ID: 660-69893-5 MS

Matrix: Solid

Analysis Batch: 280655

Client Sample ID: HM 10.5 SED (10/19/2015)

Prep Type: Total/NA

Prep Batch: 280056

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	780	J3	213	1370	J3	mg/Kg		279	90 - 110

Lab Sample ID: 660-69893-5 MSD

Matrix: Solid

Analysis Batch: 280655

Client Sample ID: HM 10.5 SED (10/19/2015)

Prep Type: Total/NA

Prep Batch: 280056

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Total Kjeldahl Nitrogen	780	J3	364	1610	J3	mg/Kg		230	90 - 110	16	20

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: MRL 400-280087/11
Matrix: Water
Analysis Batch: 280087

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	0.500	0.460	I	mg/L		92	50 - 150

Lab Sample ID: MRL 400-280105/11
Matrix: Solid
Analysis Batch: 280105

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	0.500	0.509		mg/Kg		102	

Lab Sample ID: MB 400-280253/1-A
Matrix: Water
Analysis Batch: 280682

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280253

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	0.262	I	0.50	0.26	mg/L		10/23/15 14:40	10/27/15 10:17	1

Lab Sample ID: LCS 400-280253/2-A
Matrix: Water
Analysis Batch: 280682

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280253

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	10.0	10.3		mg/L		103	90 - 110

Lab Sample ID: MB 400-280312/1-A
Matrix: Solid
Analysis Batch: 280682

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280312

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	7.2	U	14	7.2	mg/Kg		10/23/15 18:36	10/27/15 10:48	1

Lab Sample ID: LCS 400-280312/2-A
Matrix: Solid
Analysis Batch: 280682

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	397	392		mg/Kg		99	75 - 125

Lab Sample ID: 660-69919-13 MS
Matrix: Solid
Analysis Batch: 280682

Client Sample ID: HM8.5 SED (10/20/2015)
Prep Type: Total/NA
Prep Batch: 280312

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	870	J3	357	1180	J3	mg/Kg		86	90 - 110

Lab Sample ID: 660-69919-13 MSD
Matrix: Solid
Analysis Batch: 280682

Client Sample ID: HM8.5 SED (10/20/2015)
Prep Type: Total/NA
Prep Batch: 280312

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Total Kjeldahl Nitrogen	870	J3	364	1120	J3	mg/Kg		69	90 - 110	5	20

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: MRL 400-280655/11
Matrix: Solid
Analysis Batch: 280655

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	0.500	0.26	U	mg/L		52	50 - 150

Lab Sample ID: MRL 400-280682/11
Matrix: Solid
Analysis Batch: 280682

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	0.500	0.265	I	mg/L		53	50 - 150

Lab Sample ID: MB 400-280732/1-A
Matrix: Water
Analysis Batch: 281013

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280732

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/27/15 15:30	10/28/15 16:23	1

Lab Sample ID: LCS 400-280732/2-A
Matrix: Water
Analysis Batch: 281013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280732

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	10.0	10.3		mg/L		103	90 - 110

Lab Sample ID: MB 400-280738/1-A
Matrix: Solid
Analysis Batch: 281105

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280738

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	23	U	45	23	mg/Kg		10/27/15 15:37	10/29/15 10:18	1

Lab Sample ID: LCS 400-280738/2-A
Matrix: Solid
Analysis Batch: 281105

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	232	241		mg/Kg		104	75 - 125

Lab Sample ID: 660-70002-5 MS
Matrix: Solid
Analysis Batch: 281105

Client Sample ID: HM2.0SED(10/22/2015)
Prep Type: Total/NA
Prep Batch: 280738

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	490	J3	220	522	J3	mg/Kg		15	90 - 110

Lab Sample ID: 660-70002-5 MSD
Matrix: Solid
Analysis Batch: 281105

Client Sample ID: HM2.0SED(10/22/2015)
Prep Type: Total/NA
Prep Batch: 280738

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Kjeldahl Nitrogen	490	J3	184	472	J3	mg/Kg		-9	90 - 110	10	20

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: MB 400-280976/1-A
Matrix: Water
Analysis Batch: 281362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280976

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/28/15 16:45	10/30/15 15:21	1

Lab Sample ID: LCS 400-280976/2-A
Matrix: Water
Analysis Batch: 281362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	10.0	9.75		mg/L		97	90 - 110

Lab Sample ID: MB 400-281006/1-A
Matrix: Solid
Analysis Batch: 281362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 281006

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	25	U	47	25	mg/Kg		10/28/15 17:51	10/30/15 14:56	1

Lab Sample ID: LCS 400-281006/2-A
Matrix: Solid
Analysis Batch: 281362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 281006

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	240	237		mg/Kg		99	75 - 125

Lab Sample ID: MRL 400-281013/11
Matrix: Water
Analysis Batch: 281013

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	0.500	0.436	I	mg/L		87	50 - 150

Lab Sample ID: MRL 400-281105/11
Matrix: Solid
Analysis Batch: 281105

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	0.500	1.0	U	mg/Kg		79	

Lab Sample ID: MB 400-281198/1-A
Matrix: Solid
Analysis Batch: 281374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 281198

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	25	U	48	25	mg/Kg		10/29/15 16:40	10/30/15 16:27	1

Lab Sample ID: LCS 400-281198/2-A
Matrix: Solid
Analysis Batch: 281374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 281198

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	245	226		mg/Kg		92	75 - 125

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: 660-70082-5 MS

Matrix: Solid
Analysis Batch: 281374

Client Sample ID: WW3.0 SED (10/27/2015)

Prep Type: Total/NA
Prep Batch: 281198

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	120		227	338		mg/Kg		98	90 - 110

Lab Sample ID: 660-70082-5 MSD

Matrix: Solid
Analysis Batch: 281374

Client Sample ID: WW3.0 SED (10/27/2015)

Prep Type: Total/NA
Prep Batch: 281198

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Total Kjeldahl Nitrogen	120		290	413		mg/Kg		103	90 - 110	20	20

Lab Sample ID: MB 400-281201/1-A

Matrix: Water
Analysis Batch: 281374

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 281201

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	0.26	U	0.50	0.26	mg/L		10/29/15 16:45	10/30/15 16:07	1

Lab Sample ID: LCS 400-281201/2-A

Matrix: Water
Analysis Batch: 281374

Client Sample ID: Lab Control Sample

Prep Type: Total/NA
Prep Batch: 281201

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	10.0	9.69		mg/L		97	90 - 110

Lab Sample ID: MRL 400-281362/11

Matrix: Solid
Analysis Batch: 281362

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	0.500	1.0	U	mg/Kg		78	

Lab Sample ID: MRL 400-281374/11

Matrix: Solid
Analysis Batch: 281374

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	0.500	0.442	I	mg/L		88	50 - 150

Lab Sample ID: MB 400-281976/1-A

Matrix: Solid
Analysis Batch: 282264

Client Sample ID: Method Blank

Prep Type: Total/NA
Prep Batch: 281976

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	25	U	48	25	mg/Kg		11/04/15 15:40	11/06/15 08:13	1

Lab Sample ID: LCS 400-281976/2-A

Matrix: Solid
Analysis Batch: 282264

Client Sample ID: Lab Control Sample

Prep Type: Total/NA
Prep Batch: 281976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Kjeldahl Nitrogen	234	219		mg/Kg		94	75 - 125

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: MRL 400-282264/11
Matrix: Solid
Analysis Batch: 282264

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Total Kjeldahl Nitrogen	0.500	1.0	U	mg/Kg		84	

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 660-160651/8
Matrix: Water
Analysis Batch: 160651

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			08/13/15 15:33	1

Lab Sample ID: LCS 660-160651/11
Matrix: Water
Analysis Batch: 160651

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.300	0.314		mg/L		105	90 - 110

Lab Sample ID: 660-68566-D-1 MS
Matrix: Water
Analysis Batch: 160651

Client Sample ID: 660-68566-D-1 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.0064	I	0.300	0.306		mg/L		100	90 - 110

Lab Sample ID: 660-68566-D-1 MSD
Matrix: Water
Analysis Batch: 160651

Client Sample ID: 660-68566-D-1 MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Nitrite as N	0.0064	I	0.300	0.308		mg/L		101	90 - 110	1	30

Lab Sample ID: MB 660-160767/8
Matrix: Water
Analysis Batch: 160767

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			08/14/15 11:53	1

Lab Sample ID: LCS 660-160767/11
Matrix: Water
Analysis Batch: 160767

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.300	0.270		mg/L		90	90 - 110

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 353.2 - Nitrogen, Nitrite (Continued)

Lab Sample ID: 660-68601-1 MS

Matrix: Water

Analysis Batch: 160767

Client Sample ID: WW 10 SW (08/13/2015)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.0050	U	0.300	0.289		mg/L		96	90 - 110

Lab Sample ID: 660-68601-1 MSD

Matrix: Water

Analysis Batch: 160767

Client Sample ID: WW 10 SW (08/13/2015)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.0050	U	0.300	0.290		mg/L		97	90 - 110	0	30

Lab Sample ID: MB 660-162379/7

Matrix: Water

Analysis Batch: 162379

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/15/15 16:19	1

Lab Sample ID: LCS 660-162379/9

Matrix: Water

Analysis Batch: 162379

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.300	0.291		mg/L		97	90 - 110

Lab Sample ID: 660-69823-10 MS

Matrix: Water

Analysis Batch: 162379

Client Sample ID: CZ 2.5 SW (10/14/2015)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.0050	U	0.300	0.290		mg/L		97	90 - 110

Lab Sample ID: 660-69823-10 MSD

Matrix: Water

Analysis Batch: 162379

Client Sample ID: CZ 2.5 SW (10/14/2015)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.0050	U	0.300	0.289		mg/L		96	90 - 110	0	30

Lab Sample ID: MB 660-162403/8

Matrix: Water

Analysis Batch: 162403

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/16/15 14:57	1

Lab Sample ID: LCS 660-162403/11

Matrix: Water

Analysis Batch: 162403

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.300	0.273		mg/L		91	90 - 110

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: 660-69852-1 MS
Matrix: Water
Analysis Batch: 162403

Client Sample ID: CZ 3.5 SW (10/15/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.0050	U	0.300	0.292		mg/L		97	90 - 110

Lab Sample ID: 660-69852-1 MSD
Matrix: Water
Analysis Batch: 162403

Client Sample ID: CZ 3.5 SW (10/15/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.0050	U	0.300	0.294		mg/L		98	90 - 110	1	30

Lab Sample ID: MB 660-162484/7
Matrix: Water
Analysis Batch: 162484

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/17/15 12:10	1

Lab Sample ID: MB 660-162484/8
Matrix: Water
Analysis Batch: 162484

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/17/15 12:11	1

Lab Sample ID: LCS 660-162484/10
Matrix: Water
Analysis Batch: 162484

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.300	0.270		mg/L		90	90 - 110

Lab Sample ID: LCS 660-162484/11
Matrix: Water
Analysis Batch: 162484

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.300	0.278		mg/L		93	90 - 110

Lab Sample ID: 660-69879-1 MS
Matrix: Water
Analysis Batch: 162484

Client Sample ID: CZ 6.5 SW (10/16/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.0050	U	0.300	0.300		mg/L		100	90 - 110

Lab Sample ID: 660-69879-1 MSD
Matrix: Water
Analysis Batch: 162484

Client Sample ID: CZ 6.5 SW (10/16/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.0050	U	0.300	0.306		mg/L		102	90 - 110	2	30

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 353.2 - Nitrogen, Nitrite (Continued)

Lab Sample ID: MB 660-162542/7
Matrix: Water
Analysis Batch: 162542

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/21/15 14:32	1

Lab Sample ID: MB 660-162542/8
Matrix: Water
Analysis Batch: 162542

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/21/15 14:34	1

Lab Sample ID: LCS 660-162542/10
Matrix: Water
Analysis Batch: 162542

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.300	0.295		mg/L		98	90 - 110

Lab Sample ID: LCS 660-162542/11
Matrix: Water
Analysis Batch: 162542

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.300	0.295		mg/L		98	90 - 110

Lab Sample ID: 660-69919-10 MS
Matrix: Water
Analysis Batch: 162542

Client Sample ID: HM4.5 PW (10-20-2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.0050	U	0.300	0.308		mg/L		103	90 - 110

Lab Sample ID: 660-69919-10 MSD
Matrix: Water
Analysis Batch: 162542

Client Sample ID: HM4.5 PW (10-20-2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.0050	U	0.300	0.309		mg/L		103	90 - 110	0	30

Lab Sample ID: MB 660-162589/7
Matrix: Water
Analysis Batch: 162589

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/22/15 15:44	1

Lab Sample ID: MB 660-162589/8
Matrix: Water
Analysis Batch: 162589

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/22/15 15:45	1

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: LCS 660-162589/10
Matrix: Water
Analysis Batch: 162589

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.300	0.284		mg/L		95	90 - 110

Lab Sample ID: LCS 660-162589/11
Matrix: Water
Analysis Batch: 162589

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.300	0.283		mg/L		94	90 - 110

Lab Sample ID: MB 660-162613/7
Matrix: Water
Analysis Batch: 162613

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/20/15 11:33	1

Lab Sample ID: LCS 660-162613/9
Matrix: Water
Analysis Batch: 162613

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.300	0.284		mg/L		95	90 - 110

Lab Sample ID: MB 660-162652/8
Matrix: Water
Analysis Batch: 162652

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/23/15 16:02	1

Lab Sample ID: LCS 660-162652/11
Matrix: Water
Analysis Batch: 162652

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.300	0.284		mg/L		95	90 - 110

Lab Sample ID: 660-70002-4 MS
Matrix: Water
Analysis Batch: 162652

Client Sample ID: WW8.5PW(10/22/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.0050	U J3	0.300	0.227	J3	mg/L		76	90 - 110

Lab Sample ID: 660-70002-4 MSD
Matrix: Water
Analysis Batch: 162652

Client Sample ID: WW8.5PW(10/22/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.0050	U J3	0.300	0.224	J3	mg/L		75	90 - 110	1	30

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 353.2 - Nitrogen, Nitrite (Continued)

Lab Sample ID: MB 660-162662/7
Matrix: Water
Analysis Batch: 162662

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/24/15 13:49	1

Lab Sample ID: LCS 660-162662/9
Matrix: Water
Analysis Batch: 162662

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.300	0.279		mg/L		93	90 - 110

Lab Sample ID: 660-70026-1 MS
Matrix: Water
Analysis Batch: 162662

Client Sample ID: WW7.5SW(10/23/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.0050	U	0.300	0.310		mg/L		103	90 - 110

Lab Sample ID: 660-70026-1 MSD
Matrix: Water
Analysis Batch: 162662

Client Sample ID: WW7.5SW(10/23/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.0050	U	0.300	0.316		mg/L		105	90 - 110	2	30

Lab Sample ID: MB 660-162750/8
Matrix: Water
Analysis Batch: 162750

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/27/15 14:52	1

Lab Sample ID: LCS 660-162750/11
Matrix: Water
Analysis Batch: 162750

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.300	0.316		mg/L		105	90 - 110

Lab Sample ID: 660-70053-10 MS
Matrix: Water
Analysis Batch: 162750

Client Sample ID: WW5.25 PW (10/26/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.0050	U	0.300	0.303		mg/L		101	90 - 110

Lab Sample ID: 660-70053-10 MSD
Matrix: Water
Analysis Batch: 162750

Client Sample ID: WW5.25 PW (10/26/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.0050	U	0.300	0.302		mg/L		101	90 - 110	0	30

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: MB 660-162902/8
Matrix: Water
Analysis Batch: 162902

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.0050	U	0.010	0.0050	mg/L			10/28/15 14:35	1

Lab Sample ID: LCS 660-162902/11
Matrix: Water
Analysis Batch: 162902

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.300	0.301		mg/L		100	90 - 110

Lab Sample ID: 660-70082-1 MS
Matrix: Water
Analysis Batch: 162902

Client Sample ID: WW2.5 SW (10/27/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.0050	U	0.300	0.290		mg/L		97	90 - 110

Lab Sample ID: 660-70082-1 MSD
Matrix: Water
Analysis Batch: 162902

Client Sample ID: WW2.5 SW (10/27/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.0050	U	0.300	0.294		mg/L		98	90 - 110	1	30

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MRL 400-270126/13
Matrix: Solid
Analysis Batch: 270126

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.0500	0.0497	I	mg/Kg		99	

Lab Sample ID: MB 400-272637/8
Matrix: Water
Analysis Batch: 272637

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.018	U	0.050	0.018	mg/L			09/02/15 10:58	1

Lab Sample ID: LCS 400-272637/9
Matrix: Water
Analysis Batch: 272637

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.500	0.487		mg/L		97	90 - 110

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

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

Lab Sample ID: MRL 400-272637/6
Matrix: Water
Analysis Batch: 272637

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.0500	0.0489	I	mg/L		98	50 - 150

Lab Sample ID: MRL 400-280319/13
Matrix: Solid
Analysis Batch: 280319

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.0500	0.0579		mg/Kg		116	

Lab Sample ID: MB 400-280980/15
Matrix: Water
Analysis Batch: 280980

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.0247	I	0.050	0.018	mg/L			10/28/15 16:04	1

Lab Sample ID: LCS 400-280980/16
Matrix: Water
Analysis Batch: 280980

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.500	0.469		mg/L		94	90 - 110

Lab Sample ID: MRL 400-280980/13
Matrix: Water
Analysis Batch: 280980

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.0500	0.0717		mg/L		143	50 - 150

Lab Sample ID: 660-69919-3 MS
Matrix: Water
Analysis Batch: 280980

Client Sample ID: HM7.5 SW (10/20/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.23	V J3	0.500	0.657	J3	mg/L		85	90 - 110

Lab Sample ID: 660-69919-3 MSD
Matrix: Water
Analysis Batch: 280980

Client Sample ID: HM7.5 SW (10/20/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.23	V J3	0.500	0.661	J3	mg/L		86	90 - 110	1	4

Lab Sample ID: MB 400-281012/8
Matrix: Water
Analysis Batch: 281012

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.0249	I	0.050	0.018	mg/L			10/28/15 17:10	1

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: LCS 400-281012/9
Matrix: Water
Analysis Batch: 281012

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.500	0.481		mg/L		96	90 - 110

Lab Sample ID: MRL 400-281012/6
Matrix: Water
Analysis Batch: 281012

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.0500	0.0701		mg/L		140	50 - 150

Lab Sample ID: MB 400-281116/15
Matrix: Water
Analysis Batch: 281116

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.018	U	0.050	0.018	mg/L			10/29/15 10:34	1

Lab Sample ID: LCS 400-281116/16
Matrix: Water
Analysis Batch: 281116

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.500	0.502		mg/L		100	90 - 110

Lab Sample ID: MRL 400-281116/13
Matrix: Water
Analysis Batch: 281116

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.0500	0.0434	I	mg/L		87	50 - 150

Lab Sample ID: 660-69852-1 MS
Matrix: Water
Analysis Batch: 281116

Client Sample ID: CZ 3.5 SW (10/15/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.49		0.500	0.956		mg/L		93	90 - 110

Lab Sample ID: 660-69852-1 MSD
Matrix: Water
Analysis Batch: 281116

Client Sample ID: CZ 3.5 SW (10/15/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Nitrate Nitrite as N	0.49		0.500	0.969		mg/L		95	90 - 110	1	4

Lab Sample ID: MB 400-281126/8
Matrix: Water
Analysis Batch: 281126

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.018	U	0.050	0.018	mg/L			10/29/15 11:34	1

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

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

Lab Sample ID: LCS 400-281126/9
Matrix: Water
Analysis Batch: 281126

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.500	0.527		mg/L		105	90 - 110

Lab Sample ID: MRL 400-281126/6
Matrix: Water
Analysis Batch: 281126

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.0500	0.0446	I	mg/L		89	50 - 150

Lab Sample ID: 660-69879-5 MS
Matrix: Water
Analysis Batch: 281126

Client Sample ID: CZ 8.5 SW (10/16/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.30	J3	0.500	0.808		mg/L		101	90 - 110

Lab Sample ID: 660-69879-5 MSD
Matrix: Water
Analysis Batch: 281126

Client Sample ID: CZ 8.5 SW (10/16/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.30	J3	0.500	0.771	J3	mg/L		93	90 - 110	5	4

Lab Sample ID: 660-70026-3 MS
Matrix: Water
Analysis Batch: 281126

Client Sample ID: WW6.5SW(10/23/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.82		0.500	1.34		mg/L		104	90 - 110

Lab Sample ID: 660-70026-3 MSD
Matrix: Water
Analysis Batch: 281126

Client Sample ID: WW6.5SW(10/23/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.82		0.500	1.34		mg/L		103	90 - 110	0	4

Lab Sample ID: MRL 400-281762/13
Matrix: Solid
Analysis Batch: 281762

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.0500	0.0407	I	mg/Kg		81	

Lab Sample ID: MB 400-281810/15
Matrix: Water
Analysis Batch: 281810

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.018	U	0.050	0.018	mg/L			11/03/15 18:20	1

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: LCS 400-281810/16
Matrix: Water
Analysis Batch: 281810

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.500	0.488		mg/L		98	90 - 110

Lab Sample ID: MRL 400-281810/13
Matrix: Water
Analysis Batch: 281810

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.0500	0.0426	I	mg/L		85	50 - 150

Lab Sample ID: MB 400-270080/3-A
Matrix: Solid
Analysis Batch: 270126

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			08/17/15 14:28	1

Lab Sample ID: LCS 400-270080/4-A
Matrix: Solid
Analysis Batch: 270126

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	10.0	10.1		mg/Kg		101	90 - 110

Lab Sample ID: MB 400-280061/4-A
Matrix: Solid
Analysis Batch: 280319

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			10/23/15 18:40	1

Lab Sample ID: MB 400-280074/4-A
Matrix: Solid
Analysis Batch: 280319

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.442	I	1.0	0.36	mg/Kg			10/23/15 19:22	1

Lab Sample ID: LCS 400-280061/5-A
Matrix: Solid
Analysis Batch: 280319

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	10.0	9.58		mg/Kg		96	90 - 110

Lab Sample ID: LCS 400-280074/5-A
Matrix: Solid
Analysis Batch: 280319

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	10.0	9.51		mg/Kg		95	90 - 110

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

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

Lab Sample ID: 660-69823-1 MS
Matrix: Solid
Analysis Batch: 280319

Client Sample ID: CZ 0.5 SED (10/14/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.35	U J3	9.84	3.10	J3	mg/Kg		31	90 - 110

Lab Sample ID: 660-69823-1 MSD
Matrix: Solid
Analysis Batch: 280319

Client Sample ID: CZ 0.5 SED (10/14/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.35	U J3	9.96	3.16	J3	mg/Kg		32	90 - 110	2	6

Lab Sample ID: 660-69852-12 MS
Matrix: Solid
Analysis Batch: 280319

Client Sample ID: CZ 5.5 SED (10/15/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.35	U J3	9.94	5.37	J3	mg/Kg		54	90 - 110

Lab Sample ID: 660-69852-12 MSD
Matrix: Solid
Analysis Batch: 280319

Client Sample ID: CZ 5.5 SED (10/15/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.35	U J3	9.80	5.28	J3	mg/Kg		54	90 - 110	2	6

Lab Sample ID: 660-69893-6 MS
Matrix: Solid
Analysis Batch: 280319

Client Sample ID: HM 10.0 SED (10/19/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.36	U J3	9.96	3.57	V J3	mg/Kg		36	90 - 110

Lab Sample ID: 660-69893-6 MSD
Matrix: Solid
Analysis Batch: 280319

Client Sample ID: HM 10.0 SED (10/19/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.36	U J3	9.82	3.58	V J3	mg/Kg		36	90 - 110	0	6

Lab Sample ID: MB 400-281558/4-A
Matrix: Solid
Analysis Batch: 281762

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:05	1

Lab Sample ID: MB 400-281568/4-A
Matrix: Solid
Analysis Batch: 281762

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	0.36	U	1.0	0.36	mg/Kg			11/03/15 13:47	1

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: LCS 400-281558/5-A
Matrix: Solid
Analysis Batch: 281762

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	10.0	10.0		mg/Kg		100	90 - 110

Lab Sample ID: LCS 400-281568/5-A
Matrix: Solid
Analysis Batch: 281762

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	10.0	9.84		mg/Kg		98	90 - 110

Lab Sample ID: 660-69974-1 MS
Matrix: Solid
Analysis Batch: 281762

Client Sample ID: HM 8.0SED (10/21/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.36	U	10.0	3.44	J3	mg/Kg		34	90 - 110

Lab Sample ID: 660-69974-1 MSD
Matrix: Solid
Analysis Batch: 281762

Client Sample ID: HM 8.0SED (10/21/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.36	U	10.0	3.34	J3	mg/Kg		33	90 - 110	3	6

Lab Sample ID: 660-69974-11 MS
Matrix: Solid
Analysis Batch: 281762

Client Sample ID: HM 3.0 SED (10/21/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.36	U J3	10.0	4.46	J3	mg/Kg		45	90 - 110

Lab Sample ID: 660-69974-11 MSD
Matrix: Solid
Analysis Batch: 281762

Client Sample ID: HM 3.0 SED (10/21/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.36	U J3	10.0	4.53	J3	mg/Kg		45	90 - 110	1	6

Lab Sample ID: 660-70026-7 MS
Matrix: Solid
Analysis Batch: 281762

Client Sample ID: WW7.0SED(10/23/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.36	U	9.88	7.86	J3	mg/Kg		80	90 - 110

Lab Sample ID: 660-70026-7 MSD
Matrix: Solid
Analysis Batch: 281762

Client Sample ID: WW7.0SED(10/23/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.36	U	9.88	8.04	J3	mg/Kg		81	90 - 110	2	6

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

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

Lab Sample ID: 660-70082-6 MS

Matrix: Solid

Analysis Batch: 281762

Client Sample ID: WW2.5 SED (10/27/2015)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	0.36	U	10.0	9.22		mg/Kg		92	90 - 110

Lab Sample ID: 660-70082-6 MSD

Matrix: Solid

Analysis Batch: 281762

Client Sample ID: WW2.5 SED (10/27/2015)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate Nitrite as N	0.36	U	10.0	9.01		mg/Kg		90	90 - 110	2	6

Method: 354.1 - Nitrogen, Nitrite

Lab Sample ID: MB 400-271996/6-A

Matrix: Solid

Analysis Batch: 272036

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			08/29/15 10:21	1

Lab Sample ID: LCS 400-271996/7-A

Matrix: Solid

Analysis Batch: 272036

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	6.00	5.90		mg/Kg		98	90 - 110

Lab Sample ID: MRL 400-271996/3-A

Matrix: Solid

Analysis Batch: 272036

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.00	1.96	I	mg/Kg		98	

Lab Sample ID: MB 400-279287/3-A

Matrix: Solid

Analysis Batch: 279280

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/16/15 14:39	1

Lab Sample ID: LCS 400-279287/5-A

Matrix: Solid

Analysis Batch: 279280

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	6.00	6.38		mg/Kg		106	90 - 110

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 354.1 - Nitrogen, Nitrite (Continued)

Lab Sample ID: MRL 400-279287/6-A
Matrix: Solid
Analysis Batch: 279280

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.00	2.28		mg/Kg		114	

Lab Sample ID: 660-69823-1 MS
Matrix: Solid
Analysis Batch: 279280

Client Sample ID: CZ 0.5 SED (10/14/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.36	U	4.00	3.76		mg/Kg		94	70 - 127

Lab Sample ID: 660-69823-1 MSD
Matrix: Solid
Analysis Batch: 279280

Client Sample ID: CZ 0.5 SED (10/14/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.36	U	4.00	3.75		mg/Kg		94	70 - 127	0	20

Lab Sample ID: MB 400-279303/3-A
Matrix: Solid
Analysis Batch: 279306

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/17/15 10:30	1

Lab Sample ID: LCS 400-279303/6-A
Matrix: Solid
Analysis Batch: 279306

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	6.00	5.99		mg/Kg		100	90 - 110

Lab Sample ID: MRL 400-279303/7-A
Matrix: Solid
Analysis Batch: 279306

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.00	2.12		mg/Kg		106	

Lab Sample ID: 660-69852-8 MS
Matrix: Solid
Analysis Batch: 279306

Client Sample ID: CZ 3.5 SED (10/15/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.36	U J3	4.00	1.95	I J3	mg/Kg		49	70 - 127

Lab Sample ID: 660-69852-8 MSD
Matrix: Solid
Analysis Batch: 279306

Client Sample ID: CZ 3.5 SED (10/15/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.36	U J3	4.00	2.20	J3	mg/Kg		55	70 - 127	12	20

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: MB 400-279688/3-A
Matrix: Solid
Analysis Batch: 279732

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/20/15 11:10	1

Lab Sample ID: LCS 400-279688/6-A
Matrix: Solid
Analysis Batch: 279732

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	6.00	5.81		mg/Kg		97	90 - 110

Lab Sample ID: MRL 400-279688/7-A
Matrix: Solid
Analysis Batch: 279732

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.00	2.00		mg/Kg		100	

Lab Sample ID: 660-69879-10 MS
Matrix: Solid
Analysis Batch: 279732

Client Sample ID: CZ 8.0 SED (10/16/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.36	U	4.00	2.98		mg/Kg		75	70 - 127

Lab Sample ID: 660-69879-10 MSD
Matrix: Solid
Analysis Batch: 279732

Client Sample ID: CZ 8.0 SED (10/16/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.36	U	4.00	2.81		mg/Kg		70	70 - 127	6	20

Lab Sample ID: MB 400-279979/4-A
Matrix: Solid
Analysis Batch: 279997

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/22/15 08:24	1

Lab Sample ID: LCS 400-279979/6-A
Matrix: Solid
Analysis Batch: 279997

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	6.00	5.79		mg/Kg		96	90 - 110

Lab Sample ID: 660-69893-5 MS
Matrix: Solid
Analysis Batch: 279997

Client Sample ID: HM 10.5 SED (10/19/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.36	U J3	4.00	1.70	I J3	mg/Kg		42	70 - 127

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 354.1 - Nitrogen, Nitrite (Continued)

Lab Sample ID: 660-69893-5 MSD
Matrix: Solid
Analysis Batch: 279997

Client Sample ID: HM 10.5 SED (10/19/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.36	U J3	4.00	1.75	I J3	mg/Kg		44	70 - 127	3	20

Lab Sample ID: MB 400-280238/3-A
Matrix: Solid
Analysis Batch: 280294

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/23/15 16:27	1

Lab Sample ID: LCS 400-280238/7-A
Matrix: Solid
Analysis Batch: 280294

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	6.00	5.78		mg/Kg		96	90 - 110

Lab Sample ID: MRL 400-280238/5-A
Matrix: Solid
Analysis Batch: 280294

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.00	2.26		mg/Kg		113	

Lab Sample ID: 660-69919-13 MS
Matrix: Solid
Analysis Batch: 280294

Client Sample ID: HM8.5 SED (10/20/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.36	U J3	4.00	2.65	J3	mg/Kg		66	70 - 127

Lab Sample ID: 660-69919-13 MSD
Matrix: Solid
Analysis Batch: 280294

Client Sample ID: HM8.5 SED (10/20/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.36	U J3	4.00	2.60	J3	mg/Kg		65	70 - 127	2	20

Lab Sample ID: 660-69974-7 DU
Matrix: Solid
Analysis Batch: 280294

Client Sample ID: HM 5.0 SED (10/21/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrite as N	0.36	U	0.36	U	mg/Kg		NC	20

Lab Sample ID: MB 400-280352/6-A
Matrix: Solid
Analysis Batch: 280354

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/24/15 12:28	1

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: LCS 400-280352/7-A
Matrix: Solid
Analysis Batch: 280354

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	6.00	5.78		mg/Kg		96	90 - 110

Lab Sample ID: MRL 400-280352/3-A
Matrix: Solid
Analysis Batch: 280354

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.00	2.13		mg/Kg		106	

Lab Sample ID: 660-70002-6 MS
Matrix: Solid
Analysis Batch: 280354

Client Sample ID: HM1.5SED(10/22/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.36	U	4.00	3.36		mg/Kg		84	70 - 127

Lab Sample ID: 660-70002-6 MSD
Matrix: Solid
Analysis Batch: 280354

Client Sample ID: HM1.5SED(10/22/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.36	U	4.00	3.46		mg/Kg		86	70 - 127	3	20

Lab Sample ID: MB 400-280672/6-A
Matrix: Solid
Analysis Batch: 280853

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/28/15 07:34	1

Lab Sample ID: LCS 400-280672/7-A
Matrix: Solid
Analysis Batch: 280853

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	6.00	5.67		mg/Kg		95	90 - 110

Lab Sample ID: MRL 400-280672/3-A
Matrix: Solid
Analysis Batch: 280853

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.00	2.18		mg/Kg		109	

Lab Sample ID: 660-70026-5 MS
Matrix: Solid
Analysis Batch: 280853

Client Sample ID: WW8.0SED(10/23/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.36	U	4.00	4.20		mg/Kg		105	70 - 127

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 354.1 - Nitrogen, Nitrite (Continued)

Lab Sample ID: 660-70026-5 MSD
Matrix: Solid
Analysis Batch: 280853

Client Sample ID: WW8.0SED(10/23/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.36	U	4.00	4.15		mg/Kg		104	70 - 127	1	20

Lab Sample ID: MB 400-280924/6-A
Matrix: Solid
Analysis Batch: 281007

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/28/15 17:20	1

Lab Sample ID: LCS 400-280924/7-A
Matrix: Solid
Analysis Batch: 281007

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	6.00	5.98		mg/Kg		100	90 - 110

Lab Sample ID: MRL 400-280924/3-A
Matrix: Solid
Analysis Batch: 281007

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.00	2.30		mg/Kg		115	

Lab Sample ID: 660-70053-1 MS
Matrix: Solid
Analysis Batch: 281007

Client Sample ID: WW5.5 SED (10/26/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.36	U	4.00	4.31		mg/Kg		108	70 - 127

Lab Sample ID: 660-70053-1 MSD
Matrix: Solid
Analysis Batch: 281007

Client Sample ID: WW5.5 SED (10/26/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.36	U	4.00	4.26		mg/Kg		106	70 - 127	1	20

Lab Sample ID: MB 400-281122/6-A
Matrix: Solid
Analysis Batch: 281250

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	0.36	U	2.0	0.36	mg/Kg			10/30/15 07:47	1

Lab Sample ID: LCS 400-281122/7-A
Matrix: Solid
Analysis Batch: 281250

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	6.00	5.80		mg/Kg		97	90 - 110

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: MRL 400-281122/3-A
Matrix: Solid
Analysis Batch: 281250

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	2.00	2.12		mg/Kg		106	

Lab Sample ID: 660-70082-5 MS
Matrix: Solid
Analysis Batch: 281250

Client Sample ID: WW3.0 SED (10/27/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	0.36	U	4.00	4.04		mg/Kg		101	70 - 127

Lab Sample ID: 660-70082-5 MSD
Matrix: Solid
Analysis Batch: 281250

Client Sample ID: WW3.0 SED (10/27/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	0.36	U	4.00	4.05		mg/Kg		101	70 - 127	0	20

Method: 365.1 - Phosphorus, Ortho

Lab Sample ID: MB 400-269799/6-A
Matrix: Solid
Analysis Batch: 269845

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			08/14/15 10:57	1

Lab Sample ID: LCS 400-269799/7-A
Matrix: Solid
Analysis Batch: 269845

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	6.00	5.38		mg/Kg		90	90 - 110

Lab Sample ID: 660-68566-3 MS
Matrix: Solid
Analysis Batch: 269845

Client Sample ID: CZ 10 SED (08/12/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	2.6		4.00	6.44		mg/Kg		97	90 - 110

Lab Sample ID: 660-68566-3 MSD
Matrix: Solid
Analysis Batch: 269845

Client Sample ID: CZ 10 SED (08/12/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate	2.6		4.00	6.37		mg/Kg		95	90 - 110	1	20

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 365.1 - Phosphorus, Ortho (Continued)

Lab Sample ID: MB 400-269916/6-A
Matrix: Solid
Analysis Batch: 269966

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			08/15/15 11:56	1

Lab Sample ID: LCS 400-269916/7-A
Matrix: Solid
Analysis Batch: 269966

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	6.00	5.61		mg/Kg		94	90 - 110

Lab Sample ID: 660-68601-3 MS
Matrix: Solid
Analysis Batch: 269966

Client Sample ID: WW 10 SED (08/13/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.30	U J3	4.00	3.47	J3	mg/Kg		87	90 - 110

Lab Sample ID: 660-68601-3 MSD
Matrix: Solid
Analysis Batch: 269966

Client Sample ID: WW 10 SED (08/13/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate	0.30	U J3	4.00	3.45	J3	mg/Kg		86	90 - 110	1	20

Lab Sample ID: MB 400-279289/3-A
Matrix: Solid
Analysis Batch: 279281

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/16/15 15:11	1

Lab Sample ID: LCS 400-279289/6-A
Matrix: Solid
Analysis Batch: 279281

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	6.00	6.00		mg/Kg		100	90 - 110

Lab Sample ID: 660-69823-4 MS
Matrix: Solid
Analysis Batch: 279281

Client Sample ID: CZ 1.0 SED (10/14/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	2.0		4.00	5.69		mg/Kg		93	90 - 110

Lab Sample ID: 660-69823-4 MSD
Matrix: Solid
Analysis Batch: 279281

Client Sample ID: CZ 1.0 SED (10/14/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate	2.0		4.00	5.67		mg/Kg		92	90 - 110	0	20

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: MB 400-279302/4-A
Matrix: Solid
Analysis Batch: 279305

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/17/15 10:15	1

Lab Sample ID: LCS 400-279302/6-A
Matrix: Solid
Analysis Batch: 279305

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	6.00	5.89		mg/Kg		98	90 - 110

Lab Sample ID: 660-69852-7 MS
Matrix: Solid
Analysis Batch: 279305

Client Sample ID: CZ 3.0 SED (10/15/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.30	U J3	4.00	2.92	J3	mg/Kg		73	90 - 110

Lab Sample ID: 660-69852-7 MSD
Matrix: Solid
Analysis Batch: 279305

Client Sample ID: CZ 3.0 SED (10/15/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate	0.30	U J3	4.00	2.50	J3	mg/Kg		62	90 - 110	16	20

Lab Sample ID: MB 400-279699/3-A
Matrix: Solid
Analysis Batch: 279735

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/20/15 16:18	1

Lab Sample ID: LCS 400-279699/6-A
Matrix: Solid
Analysis Batch: 279735

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	6.00	6.08		mg/Kg		101	90 - 110

Lab Sample ID: 660-69879-9 MS
Matrix: Solid
Analysis Batch: 279735

Client Sample ID: CZ 7.5 SED (10/16/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.30	U	4.00	3.91		mg/Kg		98	90 - 110

Lab Sample ID: 660-69879-9 MSD
Matrix: Solid
Analysis Batch: 279735

Client Sample ID: CZ 7.5 SED (10/16/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate	0.30	U	4.00	3.83		mg/Kg		96	90 - 110	2	20

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 365.1 - Phosphorus, Ortho (Continued)

Lab Sample ID: MB 400-279981/3-A
Matrix: Solid
Analysis Batch: 279998

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/22/15 08:29	1

Lab Sample ID: LCS 400-279981/7-A
Matrix: Solid
Analysis Batch: 279998

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	6.00	6.03		mg/Kg		101	90 - 110

Lab Sample ID: 660-69893-6 MS
Matrix: Solid
Analysis Batch: 279998

Client Sample ID: HM 10.0 SED (10/19/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	2.0		4.00	5.92		mg/Kg		99	90 - 110

Lab Sample ID: 660-69893-6 MSD
Matrix: Solid
Analysis Batch: 279998

Client Sample ID: HM 10.0 SED (10/19/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate	2.0		4.00	5.86		mg/Kg		98	90 - 110	1	20

Lab Sample ID: MB 400-280239/5-A
Matrix: Solid
Analysis Batch: 280295

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/23/15 16:32	1

Lab Sample ID: LCS 400-280239/7-A
Matrix: Solid
Analysis Batch: 280295

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	6.00	5.65		mg/Kg		94	90 - 110

Lab Sample ID: 660-69974-1 MS
Matrix: Solid
Analysis Batch: 280295

Client Sample ID: HM 8.0SED (10/21/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.30	U	4.00	3.75		mg/Kg		94	90 - 110

Lab Sample ID: 660-69974-1 MSD
Matrix: Solid
Analysis Batch: 280295

Client Sample ID: HM 8.0SED (10/21/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate	0.30	U	4.00	4.04		mg/Kg		101	90 - 110	8	20

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: 660-69974-10 MS
Matrix: Solid
Analysis Batch: 280295

Client Sample ID: HM 3.5 SED (10/21/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.30	U	4.00	3.61		mg/Kg		90	90 - 110

Lab Sample ID: 660-69974-10 MSD
Matrix: Solid
Analysis Batch: 280295

Client Sample ID: HM 3.5 SED (10/21/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Orthophosphate	0.30	U	4.00	3.73		mg/Kg		93	90 - 110	3	20

Lab Sample ID: MB 400-280353/6-A
Matrix: Solid
Analysis Batch: 280355

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/24/15 13:00	1

Lab Sample ID: LCS 400-280353/7-A
Matrix: Solid
Analysis Batch: 280355

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	6.00	6.00		mg/Kg		100	90 - 110

Lab Sample ID: 660-70002-6 MS
Matrix: Solid
Analysis Batch: 280355

Client Sample ID: HM1.5SED(10/22/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.49	I J3	4.00	3.64	J3	mg/Kg		79	90 - 110

Lab Sample ID: 660-70002-6 MSD
Matrix: Solid
Analysis Batch: 280355

Client Sample ID: HM1.5SED(10/22/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Orthophosphate	0.49	I J3	4.00	3.65	J3	mg/Kg		79	90 - 110	0	20

Lab Sample ID: MB 400-280671/6-A
Matrix: Solid
Analysis Batch: 280782

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/27/15 17:57	1

Lab Sample ID: LCS 400-280671/7-A
Matrix: Solid
Analysis Batch: 280782

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	6.00	6.19		mg/Kg		103	90 - 110

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 365.1 - Phosphorus, Ortho (Continued)

Lab Sample ID: 660-70026-5 MS

Matrix: Solid

Analysis Batch: 280782

Client Sample ID: WW8.0SED(10/23/2015)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.30	U	4.00	4.02		mg/Kg		100	90 - 110

Lab Sample ID: 660-70026-5 MSD

Matrix: Solid

Analysis Batch: 280782

Client Sample ID: WW8.0SED(10/23/2015)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate	0.30	U	4.00	3.91		mg/Kg		98	90 - 110	3	20

Lab Sample ID: MB 400-280925/6-A

Matrix: Solid

Analysis Batch: 281008

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/28/15 17:26	1

Lab Sample ID: LCS 400-280925/7-A

Matrix: Solid

Analysis Batch: 281008

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	6.00	6.12		mg/Kg		102	90 - 110

Lab Sample ID: 660-70053-1 MS

Matrix: Solid

Analysis Batch: 281008

Client Sample ID: WW5.5 SED (10/26/2015)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.30	U	4.00	3.99		mg/Kg		100	90 - 110

Lab Sample ID: 660-70053-1 MSD

Matrix: Solid

Analysis Batch: 281008

Client Sample ID: WW5.5 SED (10/26/2015)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate	0.30	U	4.00	3.91		mg/Kg		98	90 - 110	2	20

Lab Sample ID: MB 400-281123/6-A

Matrix: Solid

Analysis Batch: 281251

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.30	U	1.0	0.30	mg/Kg			10/30/15 07:50	1

Lab Sample ID: LCS 400-281123/7-A

Matrix: Solid

Analysis Batch: 281251

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	6.00	6.07		mg/Kg		101	90 - 110

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: 660-70082-5 MS
Matrix: Solid
Analysis Batch: 281251

Client Sample ID: WW3.0 SED (10/27/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.30	U	4.00	4.03		mg/Kg		101	90 - 110

Lab Sample ID: 660-70082-5 MSD
Matrix: Solid
Analysis Batch: 281251

Client Sample ID: WW3.0 SED (10/27/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate	0.30	U	4.00	4.02		mg/Kg		101	90 - 110	0	20

Method: 365.1 - Phosphorus, Total

Lab Sample ID: MB 640-118119/3-A
Matrix: Water
Analysis Batch: 118133

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 118119

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.0030	U	0.010	0.0030	mg/L		08/17/15 13:14	08/18/15 11:28	1

Lab Sample ID: DLCK 640-118119/4-A
Matrix: Water
Analysis Batch: 118133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 118119

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.00200	0.0030	U	mg/L		82	70 - 130

Lab Sample ID: LCS 640-118119/5-A
Matrix: Water
Analysis Batch: 118133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 118119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.100	0.103		mg/L		103	90 - 110

Lab Sample ID: LCSD 640-118119/6-A
Matrix: Water
Analysis Batch: 118133

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 118119

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus	0.100	0.103		mg/L		103	90 - 110	0	20

Lab Sample ID: 660-68566-2 MS
Matrix: Water
Analysis Batch: 118133

Client Sample ID: CZ 10 PW (08/12/2015)
Prep Type: Total/NA
Prep Batch: 118119

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.091		0.100	0.194		mg/L		103	90 - 110

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 365.1 - Phosphorus, Total (Continued)

Lab Sample ID: 660-68566-2 MSD
Matrix: Water
Analysis Batch: 118133

Client Sample ID: CZ 10 PW (08/12/2015)
Prep Type: Total/NA
Prep Batch: 118119

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus	0.091		0.100	0.196		mg/L		105	90 - 110	1	20

Lab Sample ID: MB 640-118138/3-A
Matrix: Water
Analysis Batch: 118149

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 118138

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus	0.0030	U	0.010	0.0030	mg/L		08/20/15 09:09	08/21/15 08:13	1

Lab Sample ID: DLCK 640-118138/4-A
Matrix: Water
Analysis Batch: 118149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 118138

Analyte	Spike Added	DLCK Result	DLCK Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.00200	0.0030	U	mg/L		116	70 - 130

Lab Sample ID: LCS 640-118138/5-A
Matrix: Water
Analysis Batch: 118149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 118138

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	0.100	0.110		mg/L		110	90 - 110

Lab Sample ID: LCSD 640-118138/6-A
Matrix: Water
Analysis Batch: 118149

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 118138

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus	0.100	0.103		mg/L		103	90 - 110	7	20

Method: 365.2 - Phosphorus, Orthophosphate

Lab Sample ID: 660-68566-1 MS
Matrix: Water
Analysis Batch: 160507

Client Sample ID: CZ 10 SW (08/12/2015)
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.019		0.300	0.344		mg/L		108	90 - 110

Lab Sample ID: 660-68566-1 MSD
Matrix: Water
Analysis Batch: 160507

Client Sample ID: CZ 10 SW (08/12/2015)
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate	0.019		0.300	0.343		mg/L		108	90 - 110	0	30

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 365.2 - Phosphorus, Orthophosphate (Continued)

Lab Sample ID: MB 660-162382/1-A
Matrix: Water
Analysis Batch: 162383

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0050	U	0.010	0.0050	mg/L			10/16/15 11:22	1

Lab Sample ID: LCS 660-162382/2-A
Matrix: Water
Analysis Batch: 162383

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.300	0.309		mg/L		103	90 - 110

Lab Sample ID: 660-69852-1 MS
Matrix: Water
Analysis Batch: 162383

Client Sample ID: CZ 3.5 SW (10/15/2015)
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.0090	I	0.300	0.317		mg/L		103	90 - 110

Lab Sample ID: 660-69852-1 MSD
Matrix: Water
Analysis Batch: 162383

Client Sample ID: CZ 3.5 SW (10/15/2015)
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate	0.0090	I	0.300	0.320		mg/L		104	90 - 110	1	30

Lab Sample ID: MB 660-162404/1-A
Matrix: Water
Analysis Batch: 162405

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0050	U	0.010	0.0050	mg/L			10/15/15 14:50	1

Lab Sample ID: LCS 660-162404/2-A
Matrix: Water
Analysis Batch: 162405

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.300	0.309		mg/L		103	90 - 110

Lab Sample ID: 660-69823-2 MS
Matrix: Water
Analysis Batch: 162405

Client Sample ID: CZ 0.5 SW (10/14/2015)
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.014		0.300	0.314		mg/L		100	90 - 110

Lab Sample ID: 660-69823-2 MSD
Matrix: Water
Analysis Batch: 162405

Client Sample ID: CZ 0.5 SW (10/14/2015)
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate	0.014		0.300	0.318		mg/L		101	90 - 110	1	30

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: MB 660-162482/1-A
Matrix: Water
Analysis Batch: 162483

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0050	U	0.010	0.0050	mg/L			10/17/15 12:15	1

Lab Sample ID: LCS 660-162482/2-A
Matrix: Water
Analysis Batch: 162483

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.300	0.303		mg/L		101	90 - 110

Lab Sample ID: 660-69879-1 MS
Matrix: Water
Analysis Batch: 162483

Client Sample ID: CZ 6.5 SW (10/16/2015)
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.0070	I	0.300	0.313		mg/L		102	90 - 110

Lab Sample ID: 660-69879-1 MSD
Matrix: Water
Analysis Batch: 162483

Client Sample ID: CZ 6.5 SW (10/16/2015)
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate	0.0070	I	0.300	0.317		mg/L		103	90 - 110	1	30

Lab Sample ID: MB 660-162524/1-A
Matrix: Water
Analysis Batch: 162525

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0050	U	0.010	0.0050	mg/L			10/21/15 08:35	1

Lab Sample ID: LCS 660-162524/2-A
Matrix: Water
Analysis Batch: 162525

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.300	0.309		mg/L		103	90 - 110

Lab Sample ID: 660-69893-1 MS
Matrix: Water
Analysis Batch: 162525

Client Sample ID: HM 10.5 SW (10/19/2015)
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.0050	U	0.300	0.309		mg/L		103	90 - 110

Lab Sample ID: 660-69893-1 MSD
Matrix: Water
Analysis Batch: 162525

Client Sample ID: HM 10.5 SW (10/19/2015)
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate	0.0050	U	0.300	0.313		mg/L		104	90 - 110	1	30

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 365.2 - Phosphorus, Orthophosphate (Continued)

Lab Sample ID: MB 660-162649/1-A
Matrix: Water
Analysis Batch: 162592

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0050	U	0.010	0.0050	mg/L			10/21/15 19:10	1

Lab Sample ID: LCS 660-162649/2-A
Matrix: Water
Analysis Batch: 162592

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.300	0.303		mg/L		101	90 - 110

Lab Sample ID: 660-69919-8 MS
Matrix: Water
Analysis Batch: 162592

Client Sample ID: HM5.5 PW (10-20-2015)
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.064		0.300	0.375		mg/L		104	90 - 110

Lab Sample ID: 660-69919-8 MSD
Matrix: Water
Analysis Batch: 162592

Client Sample ID: HM5.5 PW (10-20-2015)
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate	0.064		0.300	0.376		mg/L		104	90 - 110	0	30

Lab Sample ID: MB 660-162753/1-A
Matrix: Water
Analysis Batch: 162754

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0050	U	0.010	0.0050	mg/L			10/27/15 16:30	1

Lab Sample ID: LCS 660-162753/2-A
Matrix: Water
Analysis Batch: 162754

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.300	0.304		mg/L		101	90 - 110

Lab Sample ID: 660-70053-7 MS
Matrix: Water
Analysis Batch: 162754

Client Sample ID: WW5.5 SW (10/26/2015)
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.0050	U	0.300	0.310		mg/L		103	90 - 110

Lab Sample ID: 660-70053-7 MSD
Matrix: Water
Analysis Batch: 162754

Client Sample ID: WW5.5 SW (10/26/2015)
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate	0.0050	U	0.300	0.315		mg/L		105	90 - 110	2	30

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: MB 660-162782/1-A
Matrix: Water
Analysis Batch: 162783

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0050	U	0.010	0.0050	mg/L			10/23/15 13:30	1

Lab Sample ID: LCS 660-162782/2-A
Matrix: Water
Analysis Batch: 162783

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.300	0.304		mg/L		101	90 - 110

Lab Sample ID: 660-70002-3 MS
Matrix: Water
Analysis Batch: 162783

Client Sample ID: WW8.5SW(10/22/2015)
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.0060	I	0.300	0.308		mg/L		101	90 - 110

Lab Sample ID: 660-70002-3 MSD
Matrix: Water
Analysis Batch: 162783

Client Sample ID: WW8.5SW(10/22/2015)
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate	0.0060	I	0.300	0.313		mg/L		102	90 - 110	2	30

Lab Sample ID: MB 660-162789/1-A
Matrix: Water
Analysis Batch: 162791

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0050	U	0.010	0.0050	mg/L			10/24/15 13:55	1

Lab Sample ID: LCS 660-162789/2-A
Matrix: Water
Analysis Batch: 162791

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.300	0.303		mg/L		101	90 - 110

Lab Sample ID: 660-70026-1 MS
Matrix: Water
Analysis Batch: 162791

Client Sample ID: WW7.5SW(10/23/2015)
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.0050	U	0.300	0.310		mg/L		103	90 - 110

Lab Sample ID: 660-70026-1 MSD
Matrix: Water
Analysis Batch: 162791

Client Sample ID: WW7.5SW(10/23/2015)
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate	0.0050	U	0.300	0.319		mg/L		106	90 - 110	3	30

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 365.2 - Phosphorus, Orthophosphate (Continued)

Lab Sample ID: MB 660-162868/1-A
Matrix: Water
Analysis Batch: 162869

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Orthophosphate	0.0050	U	0.010	0.0050	mg/L			10/29/15 09:35	1

Lab Sample ID: LCS 660-162868/2-A
Matrix: Water
Analysis Batch: 162869

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.300	0.307		mg/L		102	90 - 110

Lab Sample ID: 660-70082-1 MS
Matrix: Water
Analysis Batch: 162869

Client Sample ID: WW2.5 SW (10/27/2015)
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Orthophosphate	0.0050	U	0.300	0.310		mg/L		103	90 - 110

Lab Sample ID: 660-70082-1 MSD
Matrix: Water
Analysis Batch: 162869

Client Sample ID: WW2.5 SW (10/27/2015)
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Orthophosphate	0.0050	U	0.300	0.312		mg/L		104	90 - 110	1	30

Method: 365.4 - Phosphorus, Total

Lab Sample ID: MB 400-272361/1-A
Matrix: Solid
Analysis Batch: 272631

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 272361

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	1.73	I	3.4	1.0	mg/Kg		09/01/15 10:16	09/02/15 11:03	1

Lab Sample ID: LCS 400-272361/2-A
Matrix: Solid
Analysis Batch: 272631

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 272361

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus, Total	98.5	87.1		mg/Kg		88	75 - 113

Lab Sample ID: 660-68566-3 MS
Matrix: Solid
Analysis Batch: 272631

Client Sample ID: CZ 10 SED (08/12/2015)
Prep Type: Total/NA
Prep Batch: 272361

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus, Total	110	J3	18.5	130	J3	mg/Kg		129	72 - 120

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 365.4 - Phosphorus, Total (Continued)

Lab Sample ID: 660-68566-3 MSD
Matrix: Solid
Analysis Batch: 272631

Client Sample ID: CZ 10 SED (08/12/2015)
Prep Type: Total/NA
Prep Batch: 272361

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus, Total	110	J3	19.8	98.0	J3	mg/Kg		-43	72 - 120	28	27

Lab Sample ID: MRL 400-272631/5
Matrix: Solid
Analysis Batch: 272631

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus, Total	0.100	0.0867	I	mg/L		87	

Lab Sample ID: MB 400-279169/1-A
Matrix: Solid
Analysis Batch: 279639

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279169

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	2.30	I	4.4	1.3	mg/Kg		10/16/15 10:20	10/20/15 10:51	1

Lab Sample ID: LCS 400-279169/2-A
Matrix: Solid
Analysis Batch: 279639

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279169

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus, Total	71.4	65.7		mg/Kg		92	75 - 113

Lab Sample ID: MB 400-279475/1-A
Matrix: Water
Analysis Batch: 279647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279475

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	0.0460	I	0.10	0.032	mg/L		10/19/15 11:24	10/20/15 11:48	1

Lab Sample ID: LCS 400-279475/2-A
Matrix: Water
Analysis Batch: 279647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279475

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus, Total	2.60	2.71		mg/L		104	75 - 113

Lab Sample ID: 660-69823-2 MS
Matrix: Water
Analysis Batch: 279647

Client Sample ID: CZ 0.5 SW (10/14/2015)
Prep Type: Total/NA
Prep Batch: 279475

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus, Total	0.032	U	0.400	0.417	V	mg/L		104	72 - 120

Lab Sample ID: 660-69823-2 MSD
Matrix: Water
Analysis Batch: 279647

Client Sample ID: CZ 0.5 SW (10/14/2015)
Prep Type: Total/NA
Prep Batch: 279475

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus, Total	0.032	U	0.400	0.410	V	mg/L		103	72 - 120	2	27

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: MRL 400-279639/38
Matrix: Solid
Analysis Batch: 279639

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus, Total	0.100	0.136		mg/L		136	

Lab Sample ID: MRL 400-279647/14
Matrix: Water
Analysis Batch: 279647

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus, Total	0.100	0.106		mg/L		106	50 - 150

Lab Sample ID: MB 400-279706/1-A
Matrix: Solid
Analysis Batch: 280316

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279706

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	1.59	I	3.3	0.99	mg/Kg		10/20/15 16:08	10/23/15 18:34	1

Lab Sample ID: LCS 400-279706/2-A
Matrix: Solid
Analysis Batch: 280316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279706

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus, Total	77.4	79.2		mg/Kg		102	75 - 113

Lab Sample ID: 660-69879-7 MS
Matrix: Solid
Analysis Batch: 280316

Client Sample ID: CZ 6.5 SED (10/16/2015)
Prep Type: Total/NA
Prep Batch: 279706

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus, Total	36	J3	29.4	90.8	J3	mg/Kg		186	72 - 120

Lab Sample ID: 660-69879-7 MSD
Matrix: Solid
Analysis Batch: 280316

Client Sample ID: CZ 6.5 SED (10/16/2015)
Prep Type: Total/NA
Prep Batch: 279706

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus, Total	36	J3	15.0	74.4	J3	mg/Kg		255	72 - 120	20	27

Lab Sample ID: MB 400-279720/1-A
Matrix: Water
Analysis Batch: 280316

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 279720

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	0.032	U	0.10	0.032	mg/L		10/20/15 16:52	10/23/15 18:08	1

Lab Sample ID: LCS 400-279720/2-A
Matrix: Water
Analysis Batch: 280316

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 279720

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus, Total	2.60	2.60		mg/L		100	75 - 113

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 365.4 - Phosphorus, Total (Continued)

Lab Sample ID: 660-69852-5 MS

Matrix: Water

Analysis Batch: 280316

Client Sample ID: CZ 5.5 SW (10/15/2015)

Prep Type: Total/NA

Prep Batch: 279720

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Phosphorus, Total	0.032	U	0.400	0.378		mg/L		95	72 - 120

Lab Sample ID: 660-69852-5 MSD

Matrix: Water

Analysis Batch: 280316

Client Sample ID: CZ 5.5 SW (10/15/2015)

Prep Type: Total/NA

Prep Batch: 279720

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Phosphorus, Total	0.032	U	0.400	0.441		mg/L		110	72 - 120	15	27

Lab Sample ID: MB 400-280029/1-A

Matrix: Water

Analysis Batch: 280320

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 280029

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	0.0569	I	0.10	0.032	mg/L		10/22/15 10:37	10/23/15 19:31	1

Lab Sample ID: LCS 400-280029/2-A

Matrix: Water

Analysis Batch: 280320

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 280029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phosphorus, Total	2.60	2.31		mg/L		89	75 - 113

Lab Sample ID: MB 400-280060/1-A

Matrix: Solid

Analysis Batch: 280527

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 280060

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	1.68	I	2.6	0.78	mg/Kg		10/22/15 11:47	10/26/15 13:23	1

Lab Sample ID: LCS 400-280060/2-A

Matrix: Solid

Analysis Batch: 280527

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 280060

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phosphorus, Total	71.4	69.5		mg/Kg		97	75 - 113

Lab Sample ID: 660-69893-5 MS

Matrix: Solid

Analysis Batch: 280527

Client Sample ID: HM 10.5 SED (10/19/2015)

Prep Type: Total/NA

Prep Batch: 280060

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Phosphorus, Total	160	J3	21.3	185	J3	mg/Kg		128	72 - 120

Lab Sample ID: 660-69893-5 MSD

Matrix: Solid

Analysis Batch: 280527

Client Sample ID: HM 10.5 SED (10/19/2015)

Prep Type: Total/NA

Prep Batch: 280060

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Phosphorus, Total	160	J3	36.4	208	J3	mg/Kg		138	72 - 120	12	27

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: MB 400-280254/1-A
Matrix: Water
Analysis Batch: 280527

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280254

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	0.0657	I	0.10	0.032	mg/L		10/23/15 14:42	10/26/15 13:27	1

Lab Sample ID: LCS 400-280254/2-A
Matrix: Water
Analysis Batch: 280527

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280254

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phosphorus, Total	2.60	2.55		mg/L		98	75 - 113

Lab Sample ID: MB 400-280313/1-A
Matrix: Solid
Analysis Batch: 280562

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280313

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	1.88	I	2.8	0.83	mg/Kg		10/23/15 18:39	10/26/15 15:33	1

Lab Sample ID: LCS 400-280313/2-A
Matrix: Solid
Analysis Batch: 280562

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280313

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phosphorus, Total	95.6	89.7		mg/Kg		94	75 - 113

Lab Sample ID: 660-69919-13 MS
Matrix: Solid
Analysis Batch: 280562

Client Sample ID: HM8.5 SED (10/20/2015)
Prep Type: Total/NA
Prep Batch: 280313

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Phosphorus, Total	110	J3	35.7	2050	J3	mg/Kg		5442	72 - 120

Lab Sample ID: 660-69919-13 MSD
Matrix: Solid
Analysis Batch: 280562

Client Sample ID: HM8.5 SED (10/20/2015)
Prep Type: Total/NA
Prep Batch: 280313

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Phosphorus, Total	110	J3	36.4	157	J3	mg/Kg		130	72 - 120	172	27

Lab Sample ID: MRL 400-280316/13
Matrix: Solid
Analysis Batch: 280316

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	Limits
Phosphorus, Total	0.100	0.106		mg/L		106	50 - 150

Lab Sample ID: MRL 400-280320/13
Matrix: Water
Analysis Batch: 280320

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	Limits
Phosphorus, Total	0.100	0.137		mg/L		137	50 - 150

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 365.4 - Phosphorus, Total (Continued)

Lab Sample ID: MRL 400-280527/13
Matrix: Solid
Analysis Batch: 280527

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus, Total	0.100	0.114		mg/L		114	

Lab Sample ID: MRL 400-280562/26
Matrix: Solid
Analysis Batch: 280562

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus, Total	0.100	0.115		mg/L		115	

Lab Sample ID: MB 400-280734/1-A
Matrix: Water
Analysis Batch: 281128

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280734

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	0.032	U	0.10	0.032	mg/L		10/27/15 15:32	10/29/15 11:38	1

Lab Sample ID: LCS 400-280734/2-A
Matrix: Water
Analysis Batch: 281128

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus, Total	2.60	2.27		mg/L		87	75 - 113

Lab Sample ID: MB 400-280741/1-A
Matrix: Solid
Analysis Batch: 281158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280741

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	1.13	I	2.3	0.68	mg/Kg		10/27/15 15:39	10/29/15 14:18	1

Lab Sample ID: LCS 400-280741/2-A
Matrix: Solid
Analysis Batch: 281158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280741

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus, Total	86.7	77.3		mg/Kg		89	75 - 113

Lab Sample ID: 660-70002-5 MS
Matrix: Solid
Analysis Batch: 281158

Client Sample ID: HM2.0SED(10/22/2015)
Prep Type: Total/NA
Prep Batch: 280741

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus, Total	70	J3	22.0	82.4	J3	mg/Kg		56	72 - 120

Lab Sample ID: 660-70002-5 MSD
Matrix: Solid
Analysis Batch: 281158

Client Sample ID: HM2.0SED(10/22/2015)
Prep Type: Total/NA
Prep Batch: 280741

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phosphorus, Total	70	J3	18.3	66.1	J3	mg/Kg		-21	72 - 120	22	27

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: MB 400-280978/1-A
Matrix: Water
Analysis Batch: 281217

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 280978

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	0.032	U	0.10	0.032	mg/L		10/28/15 16:47	10/29/15 15:20	1

Lab Sample ID: LCS 400-280978/2-A
Matrix: Water
Analysis Batch: 281217

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 280978

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phosphorus, Total	2.60	2.34		mg/L		90	75 - 113

Lab Sample ID: MB 400-281010/1-A
Matrix: Solid
Analysis Batch: 281217

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 281010

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	0.941	I	2.4	0.71	mg/Kg		10/28/15 17:56	10/29/15 17:33	1

Lab Sample ID: LCS 400-281010/2-A
Matrix: Solid
Analysis Batch: 281217

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 281010

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phosphorus, Total	65.7	63.4		mg/Kg		97	75 - 113

Lab Sample ID: MRL 400-281128/13
Matrix: Water
Analysis Batch: 281128

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	Limits
Phosphorus, Total	0.100	0.0784	I	mg/L		78	50 - 150

Lab Sample ID: MRL 400-281158/13
Matrix: Solid
Analysis Batch: 281158

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	Limits
Phosphorus, Total	0.100	0.114		mg/L		114	

Lab Sample ID: MB 400-281199/1-A
Matrix: Solid
Analysis Batch: 281339

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 281199

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	2.14	I	2.4	0.71	mg/Kg		10/29/15 16:43	10/30/15 13:43	1

Lab Sample ID: LCS 400-281199/2-A
Matrix: Solid
Analysis Batch: 281339

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 281199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phosphorus, Total	63.1	57.3		mg/Kg		91	75 - 113

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 365.4 - Phosphorus, Total (Continued)

Lab Sample ID: 660-70082-5 MS

Matrix: Solid

Analysis Batch: 281339

Client Sample ID: WW3.0 SED (10/27/2015)

Prep Type: Total/NA

Prep Batch: 281199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Phosphorus, Total	16	V J3	22.7	38.4		mg/Kg		98	72 - 120

Lab Sample ID: 660-70082-5 MSD

Matrix: Solid

Analysis Batch: 281339

Client Sample ID: WW3.0 SED (10/27/2015)

Prep Type: Total/NA

Prep Batch: 281199

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Phosphorus, Total	16	V J3	29.0	533	J3	mg/Kg		1784	72 - 120	173	27

Lab Sample ID: MB 400-281202/1-A

Matrix: Water

Analysis Batch: 281339

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 281202

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	0.032	U	0.10	0.032	mg/L		10/29/15 16:49	10/30/15 13:26	1

Lab Sample ID: LCS 400-281202/2-A

Matrix: Water

Analysis Batch: 281339

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 281202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Phosphorus, Total	2.60	2.37		mg/L		91	75 - 113

Lab Sample ID: MRL 400-281217/13

Matrix: Solid

Analysis Batch: 281217

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	Limits
Phosphorus, Total	0.100	0.0856	I	mg/L		86	50 - 150

Lab Sample ID: MRL 400-281217/61

Matrix: Solid

Analysis Batch: 281217

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	Limits
Phosphorus, Total	0.100	0.103		mg/L		103	50 - 150

Lab Sample ID: MRL 400-281339/13

Matrix: Solid

Analysis Batch: 281339

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	Limits
Phosphorus, Total	0.100	0.111		mg/L		111	50 - 150

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 9038 - Sulfate, Turbidimetric

Lab Sample ID: MRL 400-281780/3
Matrix: Solid
Analysis Batch: 281780

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.24	I	mg/Kg		85	

Lab Sample ID: MRL 400-282761/3
Matrix: Solid
Analysis Batch: 282761

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.36	I	mg/Kg		87	

Lab Sample ID: MB 400-272675/1-A
Matrix: Solid
Analysis Batch: 272721

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	28	U	100	28	mg/Kg			09/02/15 16:23	1

Lab Sample ID: LCS 400-272675/2-A
Matrix: Solid
Analysis Batch: 272721

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	300	296		mg/Kg		99	90 - 110

Lab Sample ID: 660-68601-3 MS
Matrix: Solid
Analysis Batch: 272721

Client Sample ID: WW 10 SED (08/13/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	51	I	195	276		mg/Kg		115	59 - 146

Lab Sample ID: 660-68601-3 MSD
Matrix: Solid
Analysis Batch: 272721

Client Sample ID: WW 10 SED (08/13/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	51	I	195	276		mg/Kg		116	59 - 146	0	20

Lab Sample ID: MB 400-281729/1-A
Matrix: Solid
Analysis Batch: 281780

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	28	U	100	28	mg/Kg			11/03/15 12:39	1

Lab Sample ID: LCS 400-281729/2-A
Matrix: Solid
Analysis Batch: 281780

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	300	280		mg/Kg		93	90 - 110

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: 660-69823-1 MS
Matrix: Solid
Analysis Batch: 281780

Client Sample ID: CZ 0.5 SED (10/14/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	370	J3	194	470	J3	mg/Kg		53	59 - 146

Lab Sample ID: 660-69823-1 MSD
Matrix: Solid
Analysis Batch: 281780

Client Sample ID: CZ 0.5 SED (10/14/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	370	J3	194	512		mg/Kg		75	59 - 146	8	20

Lab Sample ID: MB 400-281998/1-A
Matrix: Solid
Analysis Batch: 282067

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	28	U	100	28	mg/Kg			11/04/15 15:16	1

Lab Sample ID: MB 400-281998/1-A
Matrix: Solid
Analysis Batch: 282067

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	28	U	100	28	mg/Kg			11/04/15 18:20	1

Lab Sample ID: LCS 400-281998/2-A
Matrix: Solid
Analysis Batch: 282067

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	300	321		mg/Kg		107	90 - 110

Lab Sample ID: LCS 400-281998/2-A
Matrix: Solid
Analysis Batch: 282067

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	300	325		mg/Kg		108	90 - 110

Lab Sample ID: 660-69852-12 MS
Matrix: Solid
Analysis Batch: 282067

Client Sample ID: CZ 5.5 SED (10/15/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	26	U	182	238		mg/Kg		131	59 - 146

Lab Sample ID: 660-69852-12 MSD
Matrix: Solid
Analysis Batch: 282067

Client Sample ID: CZ 5.5 SED (10/15/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	26	U	182	236		mg/Kg		130	59 - 146	1	20

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 9038 - Sulfate, Turbidimetric (Continued)

Lab Sample ID: 660-69974-11 MS

Matrix: Solid

Analysis Batch: 282067

Client Sample ID: HM 3.0 SED (10/21/2015)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	170		198	385		mg/Kg		110	59 - 146

Lab Sample ID: 660-69974-11 MSD

Matrix: Solid

Analysis Batch: 282067

Client Sample ID: HM 3.0 SED (10/21/2015)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	170		198	391		mg/Kg		113	59 - 146	2	20

Lab Sample ID: MB 400-282409/1-A

Matrix: Solid

Analysis Batch: 282408

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	28	U	100	28	mg/Kg			11/06/15 16:49	1

Lab Sample ID: LCS 400-282409/2-A

Matrix: Solid

Analysis Batch: 282408

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	300	299		mg/Kg		100	90 - 110

Lab Sample ID: 660-70053-6 MS

Matrix: Solid

Analysis Batch: 282408

Client Sample ID: WW3.5 SED (10/26/2015)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	28	U	195	203		mg/Kg		104	59 - 146

Lab Sample ID: 660-70053-6 MSD

Matrix: Solid

Analysis Batch: 282408

Client Sample ID: WW3.5 SED (10/26/2015)

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	28	U	195	204		mg/Kg		104	59 - 146	0	20

Lab Sample ID: MB 400-282655/1-A

Matrix: Solid

Analysis Batch: 282761

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	28	U	100	28	mg/Kg			11/10/15 10:08	1

Lab Sample ID: LCS 400-282655/2-A

Matrix: Solid

Analysis Batch: 282761

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	300	317		mg/Kg		106	90 - 110

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: 660-70082-9 MS
Matrix: Solid
Analysis Batch: 282761

Client Sample ID: WW1.0 SED (10/27/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	25	U	180	183		mg/Kg		102	59 - 146

Lab Sample ID: 660-70082-9 MSD
Matrix: Solid
Analysis Batch: 282761

Client Sample ID: WW1.0 SED (10/27/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Sulfate	25	U	180	187		mg/Kg		104	59 - 146	3	20

Method: 9251 - Chloride

Lab Sample ID: MRL 400-282762/3
Matrix: Solid
Analysis Batch: 282762

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.76	I	mg/Kg		88	

Lab Sample ID: MB 400-272675/1-A
Matrix: Solid
Analysis Batch: 272730

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12	U	40	12	mg/Kg			09/02/15 16:17	1

Lab Sample ID: LCS 400-272675/2-A
Matrix: Solid
Analysis Batch: 272730

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	600	628		mg/Kg		105	90 - 110

Lab Sample ID: 660-68601-3 MS
Matrix: Solid
Analysis Batch: 272730

Client Sample ID: WW 10 SED (08/13/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	310		195	522		mg/Kg		111	75 - 125

Lab Sample ID: 660-68601-3 MSD
Matrix: Solid
Analysis Batch: 272730

Client Sample ID: WW 10 SED (08/13/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	310		195	518		mg/Kg		109	75 - 125	1	20

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 9251 - Chloride (Continued)

Lab Sample ID: MB 400-281729/1-A
Matrix: Solid
Analysis Batch: 281781

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12	U	40	12	mg/Kg			11/03/15 12:46	1

Lab Sample ID: LCS 400-281729/2-A
Matrix: Solid
Analysis Batch: 281781

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	600	600		mg/Kg		100	90 - 110

Lab Sample ID: 660-69823-1 MS
Matrix: Solid
Analysis Batch: 281781

Client Sample ID: CZ 0.5 SED (10/14/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	440		194	621		mg/Kg		93	75 - 125

Lab Sample ID: 660-69823-1 MSD
Matrix: Solid
Analysis Batch: 281781

Client Sample ID: CZ 0.5 SED (10/14/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	440		194	628		mg/Kg		96	75 - 125	1	20

Lab Sample ID: MB 400-281998/1-A
Matrix: Solid
Analysis Batch: 282068

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12	U	40	12	mg/Kg			11/04/15 15:18	1

Lab Sample ID: MB 400-282060/1-A
Matrix: Solid
Analysis Batch: 282068

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12	U	40	12	mg/Kg			11/04/15 18:25	1

Lab Sample ID: LCS 400-281998/2-A
Matrix: Solid
Analysis Batch: 282068

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	600	658		mg/Kg		110	90 - 110

Lab Sample ID: LCS 400-282060/2-A
Matrix: Solid
Analysis Batch: 282068

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	600	643		mg/Kg		107	90 - 110

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: 660-69852-12 MS
Matrix: Solid
Analysis Batch: 282068

Client Sample ID: CZ 5.5 SED (10/15/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	320		182	505		mg/Kg		104	75 - 125

Lab Sample ID: 660-69852-12 MSD
Matrix: Solid
Analysis Batch: 282068

Client Sample ID: CZ 5.5 SED (10/15/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	320		182	506		mg/Kg		105	75 - 125	0	20

Lab Sample ID: 660-69974-11 MS
Matrix: Solid
Analysis Batch: 282068

Client Sample ID: HM 3.0 SED (10/21/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1100		198	1270		mg/Kg		97	75 - 125

Lab Sample ID: 660-69974-11 MSD
Matrix: Solid
Analysis Batch: 282068

Client Sample ID: HM 3.0 SED (10/21/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	1100		198	1300		mg/Kg		110	75 - 125	2	20

Lab Sample ID: MB 400-282409/1-A
Matrix: Solid
Analysis Batch: 282407

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12	U	40	12	mg/Kg			11/06/15 17:58	1

Lab Sample ID: LCS 400-282409/2-A
Matrix: Solid
Analysis Batch: 282407

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	600	644		mg/Kg		107	90 - 110

Lab Sample ID: 660-70053-6 MS
Matrix: Solid
Analysis Batch: 282407

Client Sample ID: WW3.5 SED (10/26/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	12	U J3	195	240		mg/Kg		123	75 - 125

Lab Sample ID: 660-70053-6 MSD
Matrix: Solid
Analysis Batch: 282407

Client Sample ID: WW3.5 SED (10/26/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	12	U J3	195	246	J3	mg/Kg		126	75 - 125	2	20

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: 9251 - Chloride (Continued)

Lab Sample ID: MB 400-282655/1-A
Matrix: Solid
Analysis Batch: 282762

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12	U	40	12	mg/Kg			11/10/15 10:16	1

Lab Sample ID: LCS 400-282655/2-A
Matrix: Solid
Analysis Batch: 282762

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	600	647		mg/Kg		108	90 - 110

Lab Sample ID: 660-70082-9 MS
Matrix: Solid
Analysis Batch: 282762

Client Sample ID: WW1.0 SED (10/27/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	15	I	180	227		mg/Kg		118	75 - 125

Lab Sample ID: 660-70082-9 MSD
Matrix: Solid
Analysis Batch: 282762

Client Sample ID: WW1.0 SED (10/27/2015)
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	15	I	180	221		mg/Kg		115	75 - 125	3	20

Method: SM 4500 Cl- E - Chloride, Total

Lab Sample ID: MB 400-272730/6
Matrix: Water
Analysis Batch: 272730

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			09/02/15 13:15	1

Lab Sample ID: LCS 400-272730/7
Matrix: Water
Analysis Batch: 272730

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	31.4		mg/L		105	90 - 110

Lab Sample ID: MRL 400-272730/3
Matrix: Water
Analysis Batch: 272730

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.84	I	mg/L		92	50 - 150

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: 660-68601-1 MS

Matrix: Water

Analysis Batch: 272730

Client Sample ID: WW 10 SW (08/13/2015)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	20		10.0	30.7		mg/L		105	73 - 120

Lab Sample ID: 660-68601-1 MSD

Matrix: Water

Analysis Batch: 272730

Client Sample ID: WW 10 SW (08/13/2015)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	20		10.0	30.7		mg/L		105	73 - 120	0	8

Lab Sample ID: MB 400-280335/6

Matrix: Water

Analysis Batch: 280335

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			10/24/15 08:30	1

Lab Sample ID: LCS 400-280335/13

Matrix: Water

Analysis Batch: 280335

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	30.1		mg/L		100	90 - 110

Lab Sample ID: MRL 400-280335/3

Matrix: Water

Analysis Batch: 280335

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.93	I	mg/L		96	50 - 150

Lab Sample ID: MB 400-280347/5

Matrix: Water

Analysis Batch: 280347

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			10/24/15 11:19	1

Lab Sample ID: LCS 400-280347/9

Matrix: Water

Analysis Batch: 280347

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	30.7		mg/L		102	90 - 110

Lab Sample ID: MRL 400-280347/48

Matrix: Water

Analysis Batch: 280347

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.25	I	mg/L		62	50 - 150

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: 660-69823-3 MS
Matrix: Water
Analysis Batch: 280347

Client Sample ID: CZ 0.5 PW (10/14/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1300	J3	500	1310	J3	mg/L		7	73 - 120

Lab Sample ID: 660-69823-3 MSD
Matrix: Water
Analysis Batch: 280347

Client Sample ID: CZ 0.5 PW (10/14/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1300	J3	500	1310	J3	mg/L		7	73 - 120	0	8

Lab Sample ID: 660-69852-6 MS
Matrix: Water
Analysis Batch: 280347

Client Sample ID: CZ 5.5 PW (10/15/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1200	J3	500	343	J3	mg/L		-169	73 - 120

Lab Sample ID: 660-69852-6 MSD
Matrix: Water
Analysis Batch: 280347

Client Sample ID: CZ 5.5 PW (10/15/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1200	J3	500	357	J3	mg/L		-166	73 - 120	4	8

Lab Sample ID: MB 400-280357/6
Matrix: Water
Analysis Batch: 280357

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			10/24/15 13:10	1

Lab Sample ID: LCS 400-280357/7
Matrix: Water
Analysis Batch: 280357

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	29.8		mg/L		99	90 - 110

Lab Sample ID: 660-69893-4 MS
Matrix: Water
Analysis Batch: 280357

Client Sample ID: HM 9.5 PW (10/19/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1800	J3	1000	1820	J3	mg/L		-3	73 - 120

Lab Sample ID: 660-69893-4 MSD
Matrix: Water
Analysis Batch: 280357

Client Sample ID: HM 9.5 PW (10/19/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1800	J3	1000	1830	J3	mg/L		-2	73 - 120	0	8

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: SM 4500 Cl- E - Chloride, Total (Continued)

Lab Sample ID: 660-69919-10 MS

Matrix: Water

Analysis Batch: 280357

Client Sample ID: HM4.5 PW (10-20-2015)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1100	J3	500	1130	J3	mg/L		3	73 - 120

Lab Sample ID: 660-69919-10 MSD

Matrix: Water

Analysis Batch: 280357

Client Sample ID: HM4.5 PW (10-20-2015)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1100	J3	500	1140	J3	mg/L		5	73 - 120	1	8

Lab Sample ID: MB 400-281412/6

Matrix: Water

Analysis Batch: 281412

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			10/31/15 09:02	1

Lab Sample ID: LCS 400-281412/7

Matrix: Water

Analysis Batch: 281412

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	29.5		mg/L		98	90 - 110

Lab Sample ID: 660-70002-4 MS

Matrix: Water

Analysis Batch: 281412

Client Sample ID: WW8.5PW(10/22/2015)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1100	J3	1000	1230	J3	mg/L		12	73 - 120

Lab Sample ID: 660-70002-4 MSD

Matrix: Water

Analysis Batch: 281412

Client Sample ID: WW8.5PW(10/22/2015)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1100	J3	1000	1200	J3	mg/L		10	73 - 120	2	8

Lab Sample ID: MB 400-282407/5

Matrix: Water

Analysis Batch: 282407

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			11/06/15 11:39	1

Lab Sample ID: LCS 400-282407/11

Matrix: Water

Analysis Batch: 282407

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	32.4		mg/L		108	90 - 110

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: MRL 400-282407/3
Matrix: Water
Analysis Batch: 282407

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.53	I	mg/L		77	50 - 150

Lab Sample ID: 660-70053-11 MS
Matrix: Water
Analysis Batch: 282407

Client Sample ID: WW4.5 SW (10/26/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	11	J3	10.0	21.3		mg/L		106	73 - 120

Lab Sample ID: 660-70053-11 MSD
Matrix: Water
Analysis Batch: 282407

Client Sample ID: WW4.5 SW (10/26/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	11	J3	10.0	21.1		mg/L		104	73 - 120	1	8

Lab Sample ID: MRL 400-282652/3
Matrix: Water
Analysis Batch: 282652

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	2.11		mg/L		106	50 - 150

Lab Sample ID: MB 400-282689/3
Matrix: Water
Analysis Batch: 282689

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.60	U	2.0	0.60	mg/L			11/09/15 17:41	1

Lab Sample ID: LCS 400-282689/8
Matrix: Water
Analysis Batch: 282689

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	30.0	32.6		mg/L		109	90 - 110

Lab Sample ID: 660-70082-1 MS
Matrix: Water
Analysis Batch: 282689

Client Sample ID: WW2.5 SW (10/27/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	11	J3	10.0	9.34	J3	mg/L		-13	73 - 120

Lab Sample ID: 660-70082-1 MSD
Matrix: Water
Analysis Batch: 282689

Client Sample ID: WW2.5 SW (10/27/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	11	J3	10.0	9.63	J3	mg/L		-10	73 - 120	3	8

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-272721/6
Matrix: Water
Analysis Batch: 272721

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.4	U	5.0	1.4	mg/L			09/02/15 13:09	1

Lab Sample ID: LCS 400-272721/7
Matrix: Water
Analysis Batch: 272721

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	15.0		mg/L		100	90 - 110

Lab Sample ID: MRL 400-272721/3
Matrix: Water
Analysis Batch: 272721

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.44	I	mg/L		89	50 - 150

Lab Sample ID: 660-68601-1 MS
Matrix: Water
Analysis Batch: 272721

Client Sample ID: WW 10 SW (08/13/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	13		10.0	25.4		mg/L		126	77 - 128

Lab Sample ID: 660-68601-1 MSD
Matrix: Water
Analysis Batch: 272721

Client Sample ID: WW 10 SW (08/13/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	13		10.0	25.4		mg/L		126	77 - 128	0	5

Lab Sample ID: MB 400-281411/6
Matrix: Water
Analysis Batch: 281411

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.4	U	5.0	1.4	mg/L			10/31/15 08:43	1

Lab Sample ID: LCS 400-281411/7
Matrix: Water
Analysis Batch: 281411

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	14.9		mg/L		99	90 - 110

Lab Sample ID: MRL 400-281411/3
Matrix: Water
Analysis Batch: 281411

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.21	I	mg/L		84	50 - 150

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: MB 400-282388/6
Matrix: Water
Analysis Batch: 282388

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.4	U	5.0	1.4	mg/L			11/06/15 11:33	1

Lab Sample ID: LCS 400-282388/7
Matrix: Water
Analysis Batch: 282388

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	14.8		mg/L		98	90 - 110

Lab Sample ID: MRL 400-282388/3
Matrix: Water
Analysis Batch: 282388

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.49	I	mg/L		90	50 - 150

Lab Sample ID: 660-69893-1 MS
Matrix: Water
Analysis Batch: 282388

Client Sample ID: HM 10.5 SW (10/19/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	180	J3	100	319	J3	mg/L		136	77 - 128

Lab Sample ID: 660-69893-1 MSD
Matrix: Water
Analysis Batch: 282388

Client Sample ID: HM 10.5 SW (10/19/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	180	J3	100	318	J3	mg/L		135	77 - 128	0	5

Lab Sample ID: MB 400-282408/3
Matrix: Water
Analysis Batch: 282408

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.4	U	5.0	1.4	mg/L			11/06/15 16:04	1

Lab Sample ID: LCS 400-282408/4
Matrix: Water
Analysis Batch: 282408

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	15.9		mg/L		106	90 - 110

Lab Sample ID: 660-70053-11 MS
Matrix: Water
Analysis Batch: 282408

Client Sample ID: WW4.5 SW (10/26/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	12	J3	10.0	23.2		mg/L		113	77 - 128

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: 660-70053-11 MSD
Matrix: Water
Analysis Batch: 282408

Client Sample ID: WW4.5 SW (10/26/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	12	J3	10.0	21.3	J3	mg/L		95	77 - 128	8	5

Lab Sample ID: MB 400-282651/6
Matrix: Water
Analysis Batch: 282651

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1.4	U	5.0	1.4	mg/L			11/09/15 12:38	1

Lab Sample ID: LCS 400-282651/7
Matrix: Water
Analysis Batch: 282651

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	15.0	15.1		mg/L		101	90 - 110

Lab Sample ID: MRL 400-282651/3
Matrix: Water
Analysis Batch: 282651

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	5.00	4.22	I	mg/L		84	50 - 150

Lab Sample ID: 660-70082-1 MS
Matrix: Water
Analysis Batch: 282651

Client Sample ID: WW2.5 SW (10/27/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	11		10.0	21.8		mg/L		104	77 - 128

Lab Sample ID: 660-70082-1 MSD
Matrix: Water
Analysis Batch: 282651

Client Sample ID: WW2.5 SW (10/27/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	11		10.0	21.8		mg/L		104	77 - 128	0	5

Method: SM3500_FE_D - Ferrous Iron

Lab Sample ID: MB 400-269870/7
Matrix: Water
Analysis Batch: 269870

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	20	U	50	20	ug/L			08/14/15 18:21	1

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: SM3500_FE_D - Ferrous Iron (Continued)

Lab Sample ID: LCS 400-269870/8
Matrix: Water
Analysis Batch: 269870

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	200	219		ug/L		110	90 - 110

Lab Sample ID: 660-68566-1 MS
Matrix: Water
Analysis Batch: 269870

Client Sample ID: CZ 10 SW (08/12/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	260	Q	200	483		ug/L		113	55 - 134

Lab Sample ID: 660-68566-1 MSD
Matrix: Water
Analysis Batch: 269870

Client Sample ID: CZ 10 SW (08/12/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ferrous Iron	260	Q	200	481		ug/L		112	55 - 134	0	26

Lab Sample ID: 660-68566-2 DU
Matrix: Water
Analysis Batch: 269870

Client Sample ID: CZ 10 PW (08/12/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ferrous Iron	150	Q		153		ug/L				1	20

Lab Sample ID: MB 400-270151/7
Matrix: Water
Analysis Batch: 270151

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	20	U	50	20	ug/L			08/17/15 16:16	1

Lab Sample ID: LCS 400-270151/8
Matrix: Water
Analysis Batch: 270151

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	200	202		ug/L		101	90 - 110

Lab Sample ID: 660-68601-1 MS
Matrix: Water
Analysis Batch: 270151

Client Sample ID: WW 10 SW (08/13/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	180	Q	200	387		ug/L		105	55 - 134

Lab Sample ID: 660-68601-1 MSD
Matrix: Water
Analysis Batch: 270151

Client Sample ID: WW 10 SW (08/13/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ferrous Iron	180	Q	200	408		ug/L		116	55 - 134	5	26

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: 660-68601-2 DU
Matrix: Water
Analysis Batch: 270151

Client Sample ID: WW 10 PW (08/13/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Ferrous Iron	130	Q	118		ug/L		10	20

Lab Sample ID: MB 400-279619/7
Matrix: Water
Analysis Batch: 279619

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	20	U	50	20	ug/L			10/20/15 09:51	1

Lab Sample ID: LCS 400-279619/8
Matrix: Water
Analysis Batch: 279619

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	200	206		ug/L		103	90 - 110

Lab Sample ID: MRL 400-279619/4
Matrix: Water
Analysis Batch: 279619

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	0.0500	0.0409	I	mg/L		82	

Lab Sample ID: 660-69823-11 DU
Matrix: Water
Analysis Batch: 279619

Client Sample ID: CZ 2.5 PW (10/14/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Ferrous Iron	20	U Q	20	U	ug/L		NC	20

Lab Sample ID: MB 400-279929/7
Matrix: Water
Analysis Batch: 279929

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

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	20	U	50	20	ug/L			10/21/15 16:31	1

Lab Sample ID: LCS 400-279929/8
Matrix: Water
Analysis Batch: 279929

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	200	200		ug/L		100	90 - 110

Lab Sample ID: MRL 400-279929/4
Matrix: Water
Analysis Batch: 279929

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	0.0500	0.0580		mg/L		116	

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method: SM3500_FE_D - Ferrous Iron (Continued)

Lab Sample ID: 660-69893-2 DU

Matrix: Water

Analysis Batch: 279929

Client Sample ID: HM 10.5 PW (10/19/2015)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ferrous Iron	95	Q	86.0		ug/L		10	20

Lab Sample ID: MB 400-280140/6

Matrix: Water

Analysis Batch: 280140

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	20	U	50	20	ug/L			10/22/15 20:13	1

Lab Sample ID: LCS 400-280140/7

Matrix: Water

Analysis Batch: 280140

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	200	204		ug/L		102	90 - 110

Lab Sample ID: 660-69919-1 MS

Matrix: Water

Analysis Batch: 280140

Client Sample ID: HM8.5 SW (10/20/2015)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	140	Q	200	335		ug/L		99	55 - 134

Lab Sample ID: 660-69919-1 MSD

Matrix: Water

Analysis Batch: 280140

Client Sample ID: HM8.5 SW (10/20/2015)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ferrous Iron	140	Q	200	348		ug/L		105	55 - 134	4	26

Lab Sample ID: 660-69919-11 DU

Matrix: Water

Analysis Batch: 280140

Client Sample ID: HM3.5 SW (10-20-2015)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ferrous Iron	86	Q	88.1		ug/L		2	20

Lab Sample ID: MB 400-281222/7

Matrix: Water

Analysis Batch: 281222

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	20	U	50	20	ug/L			10/29/15 19:04	1

Lab Sample ID: LCS 400-281222/8

Matrix: Water

Analysis Batch: 281222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	200	196		ug/L		98	90 - 110

TestAmerica Tampa

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Lab Sample ID: MRL 400-281222/4
Matrix: Water
Analysis Batch: 281222

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	0.0500	0.0344	I	mg/L		69	

Lab Sample ID: 660-70026-1 MS
Matrix: Water
Analysis Batch: 281222

Client Sample ID: WW7.5SW(10/23/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	49	I Q	200	241		ug/L		96	55 - 134

Lab Sample ID: 660-70026-1 MSD
Matrix: Water
Analysis Batch: 281222

Client Sample ID: WW7.5SW(10/23/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ferrous Iron	49	I Q	200	238		ug/L		95	55 - 134	1	26

Lab Sample ID: 660-70053-13 DU
Matrix: Water
Analysis Batch: 281222

Client Sample ID: WW3.5 SW (10/26/2015)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ferrous Iron	41	I Q	36.6	I	ug/L		11	20

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

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Metals

Filtration Batch: 162342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-1	CZ 10 SW (08/12/2015)	Dissolved	Water	FILTRATION	
660-68566-2	CZ 10 PW (08/12/2015)	Dissolved	Water	FILTRATION	
660-68601-1	WW 10 SW (08/13/2015)	Dissolved	Water	FILTRATION	
660-68601-2	WW 10 PW (08/13/2015)	Dissolved	Water	FILTRATION	
MB 660-162342/1-C	Method Blank	Dissolved	Water	FILTRATION	

Prep Batch: 162343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-1	CZ 10 SW (08/12/2015)	Dissolved	Water	3005A	162342
660-68566-1	CZ 10 SW (08/12/2015)	Total Recoverable	Water	3005A	
660-68566-2	CZ 10 PW (08/12/2015)	Dissolved	Water	3005A	162342
660-68566-2	CZ 10 PW (08/12/2015)	Total Recoverable	Water	3005A	
660-68601-1	WW 10 SW (08/13/2015)	Dissolved	Water	3005A	162342
660-68601-1	WW 10 SW (08/13/2015)	Total Recoverable	Water	3005A	
660-68601-2	WW 10 PW (08/13/2015)	Dissolved	Water	3005A	162342
660-68601-2	WW 10 PW (08/13/2015)	Total Recoverable	Water	3005A	
LCS 660-162343/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-162342/1-C	Method Blank	Dissolved	Water	3005A	162342
MB 660-162343/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 162381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-1	CZ 10 SW (08/12/2015)	Dissolved	Water	6010B	162343
660-68566-1	CZ 10 SW (08/12/2015)	Total Recoverable	Water	6010B	162343
660-68566-2	CZ 10 PW (08/12/2015)	Dissolved	Water	6010B	162343
660-68566-2	CZ 10 PW (08/12/2015)	Dissolved	Water	6010B	162343
660-68566-2	CZ 10 PW (08/12/2015)	Total Recoverable	Water	6010B	162343
660-68601-1	WW 10 SW (08/13/2015)	Dissolved	Water	6010B	162343
660-68601-1	WW 10 SW (08/13/2015)	Total Recoverable	Water	6010B	162343
660-68601-2	WW 10 PW (08/13/2015)	Dissolved	Water	6010B	162343
660-68601-2	WW 10 PW (08/13/2015)	Total Recoverable	Water	6010B	162343
LCS 660-162343/2-A	Lab Control Sample	Total Recoverable	Water	6010B	162343
MB 660-162342/1-C	Method Blank	Dissolved	Water	6010B	162343
MB 660-162343/1-A	Method Blank	Total Recoverable	Water	6010B	162343

Prep Batch: 162719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-2	CZ 0.5 SW (10/14/2015)	Dissolved	Water	3005A	162728
660-69823-2	CZ 0.5 SW (10/14/2015)	Total Recoverable	Water	3005A	
660-69823-2 MS	CZ 0.5 SW (10/14/2015)	Total Recoverable	Water	3005A	
660-69823-2 MSD	CZ 0.5 SW (10/14/2015)	Total Recoverable	Water	3005A	
660-69823-3	CZ 0.5 PW (10/14/2015)	Dissolved	Water	3005A	162728
660-69823-3	CZ 0.5 PW (10/14/2015)	Total Recoverable	Water	3005A	
660-69823-6	CZ 1.5 SW (10/14/2015)	Dissolved	Water	3005A	162728
660-69823-6	CZ 1.5 SW (10/14/2015)	Total Recoverable	Water	3005A	
660-69823-7	CZ 1.5 PW (10/14/2015)	Dissolved	Water	3005A	162728
660-69823-7	CZ 1.5 PW (10/14/2015)	Total Recoverable	Water	3005A	
660-69823-10	CZ 2.5 SW (10/14/2015)	Dissolved	Water	3005A	162728
660-69823-10	CZ 2.5 SW (10/14/2015)	Total Recoverable	Water	3005A	
660-69823-11	CZ 2.5 PW (10/14/2015)	Dissolved	Water	3005A	162728
660-69823-11	CZ 2.5 PW (10/14/2015)	Total Recoverable	Water	3005A	

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Metals (Continued)

Prep Batch: 162719 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-162719/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-162719/1-A	Method Blank	Total Recoverable	Water	3005A	
MB 660-162728/1-B	Method Blank	Dissolved	Water	3005A	162728

Filtration Batch: 162728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-2	CZ 0.5 SW (10/14/2015)	Dissolved	Water	FILTRATION	
660-69823-3	CZ 0.5 PW (10/14/2015)	Dissolved	Water	FILTRATION	
660-69823-6	CZ 1.5 SW (10/14/2015)	Dissolved	Water	FILTRATION	
660-69823-7	CZ 1.5 PW (10/14/2015)	Dissolved	Water	FILTRATION	
660-69823-10	CZ 2.5 SW (10/14/2015)	Dissolved	Water	FILTRATION	
660-69823-11	CZ 2.5 PW (10/14/2015)	Dissolved	Water	FILTRATION	
MB 660-162728/1-B	Method Blank	Dissolved	Water	FILTRATION	

Filtration Batch: 162768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-1	CZ 3.5 SW (10/15/2015)	Dissolved	Water	FILTRATION	
660-69852-2	CZ 3.5 PW (10/15/2015)	Dissolved	Water	FILTRATION	
660-69852-3	CZ 4.5 SW (10/15/2015)	Dissolved	Water	FILTRATION	
MB 660-162768/1-B	Method Blank	Dissolved	Water	FILTRATION	

Prep Batch: 162769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-1	CZ 3.5 SW (10/15/2015)	Dissolved	Water	3005A	162768
660-69852-1	CZ 3.5 SW (10/15/2015)	Total Recoverable	Water	3005A	
660-69852-2	CZ 3.5 PW (10/15/2015)	Dissolved	Water	3005A	162768
660-69852-2	CZ 3.5 PW (10/15/2015)	Total Recoverable	Water	3005A	
660-69852-3	CZ 4.5 SW (10/15/2015)	Dissolved	Water	3005A	162768
660-69852-3	CZ 4.5 SW (10/15/2015)	Total Recoverable	Water	3005A	
LCS 660-162769/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-162768/1-B	Method Blank	Dissolved	Water	3005A	162768
MB 660-162769/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 162798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-4	CZ 4.5 PW (10/15/2015)	Dissolved	Water	3005A	162799
660-69852-4	CZ 4.5 PW (10/15/2015)	Total Recoverable	Water	3005A	
660-69852-5	CZ 5.5 SW (10/15/2015)	Dissolved	Water	3005A	162799
660-69852-5	CZ 5.5 SW (10/15/2015)	Total Recoverable	Water	3005A	
660-69852-5 MS	CZ 5.5 SW (10/15/2015)	Total Recoverable	Water	3005A	
660-69852-5 MSD	CZ 5.5 SW (10/15/2015)	Total Recoverable	Water	3005A	
660-69852-6	CZ 5.5 PW (10/15/2015)	Dissolved	Water	3005A	162799
660-69852-6	CZ 5.5 PW (10/15/2015)	Total Recoverable	Water	3005A	
660-69879-1	CZ 6.5 SW (10/16/2015)	Dissolved	Water	3005A	162799
660-69879-1	CZ 6.5 SW (10/16/2015)	Total Recoverable	Water	3005A	
660-69879-2	CZ 6.5 PW (10/16/2015)	Dissolved	Water	3005A	162799
660-69879-2	CZ 6.5 PW (10/16/2015)	Total Recoverable	Water	3005A	
660-69879-3	CZ 7.5 SW (10/16/2015)	Dissolved	Water	3005A	162799
660-69879-3	CZ 7.5 SW (10/16/2015)	Total Recoverable	Water	3005A	
660-69879-4	CZ 7.5 PW (10/16/2015)	Dissolved	Water	3005A	162799
660-69879-4	CZ 7.5 PW (10/16/2015)	Total Recoverable	Water	3005A	

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Metals (Continued)

Prep Batch: 162798 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69879-5	CZ 8.5 SW (10/16/2015)	Dissolved	Water	3005A	162799
660-69879-5	CZ 8.5 SW (10/16/2015)	Total Recoverable	Water	3005A	
660-69879-6	CZ 8.5 PW (10/16/2015)	Dissolved	Water	3005A	162799
660-69879-6	CZ 8.5 PW (10/16/2015)	Total Recoverable	Water	3005A	
LCS 660-162798/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-162798/1-A	Method Blank	Total Recoverable	Water	3005A	
MB 660-162799/1-B	Method Blank	Dissolved	Water	3005A	162799

Filtration Batch: 162799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-4	CZ 4.5 PW (10/15/2015)	Dissolved	Water	FILTRATION	
660-69852-5	CZ 5.5 SW (10/15/2015)	Dissolved	Water	FILTRATION	
660-69852-6	CZ 5.5 PW (10/15/2015)	Dissolved	Water	FILTRATION	
660-69879-1	CZ 6.5 SW (10/16/2015)	Dissolved	Water	FILTRATION	
660-69879-2	CZ 6.5 PW (10/16/2015)	Dissolved	Water	FILTRATION	
660-69879-3	CZ 7.5 SW (10/16/2015)	Dissolved	Water	FILTRATION	
660-69879-4	CZ 7.5 PW (10/16/2015)	Dissolved	Water	FILTRATION	
660-69879-5	CZ 8.5 SW (10/16/2015)	Dissolved	Water	FILTRATION	
660-69879-6	CZ 8.5 PW (10/16/2015)	Dissolved	Water	FILTRATION	
MB 660-162799/1-B	Method Blank	Dissolved	Water	FILTRATION	

Analysis Batch: 162808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-2	CZ 0.5 SW (10/14/2015)	Dissolved	Water	6010B	162719
660-69823-2	CZ 0.5 SW (10/14/2015)	Total Recoverable	Water	6010B	162719
660-69823-2 MS	CZ 0.5 SW (10/14/2015)	Total Recoverable	Water	6010B	162719
660-69823-2 MSD	CZ 0.5 SW (10/14/2015)	Total Recoverable	Water	6010B	162719
660-69823-3	CZ 0.5 PW (10/14/2015)	Dissolved	Water	6010B	162719
660-69823-3	CZ 0.5 PW (10/14/2015)	Total Recoverable	Water	6010B	162719
660-69823-6	CZ 1.5 SW (10/14/2015)	Dissolved	Water	6010B	162719
660-69823-6	CZ 1.5 SW (10/14/2015)	Total Recoverable	Water	6010B	162719
660-69823-7	CZ 1.5 PW (10/14/2015)	Dissolved	Water	6010B	162719
660-69823-7	CZ 1.5 PW (10/14/2015)	Total Recoverable	Water	6010B	162719
660-69823-10	CZ 2.5 SW (10/14/2015)	Dissolved	Water	6010B	162719
660-69823-10	CZ 2.5 SW (10/14/2015)	Total Recoverable	Water	6010B	162719
660-69823-11	CZ 2.5 PW (10/14/2015)	Dissolved	Water	6010B	162719
660-69823-11	CZ 2.5 PW (10/14/2015)	Total Recoverable	Water	6010B	162719
LCS 660-162719/2-A	Lab Control Sample	Total Recoverable	Water	6010B	162719
MB 660-162719/1-A	Method Blank	Total Recoverable	Water	6010B	162719
MB 660-162728/1-B	Method Blank	Dissolved	Water	6010B	162719

Analysis Batch: 162833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-11	CZ 2.5 PW (10/14/2015)	Total Recoverable	Water	6010B	162719
660-69852-1	CZ 3.5 SW (10/15/2015)	Dissolved	Water	6010B	162769
660-69852-1	CZ 3.5 SW (10/15/2015)	Total Recoverable	Water	6010B	162769
660-69852-2	CZ 3.5 PW (10/15/2015)	Dissolved	Water	6010B	162769
660-69852-2	CZ 3.5 PW (10/15/2015)	Total Recoverable	Water	6010B	162769
660-69852-3	CZ 4.5 SW (10/15/2015)	Dissolved	Water	6010B	162769
660-69852-3	CZ 4.5 SW (10/15/2015)	Total Recoverable	Water	6010B	162769
LCS 660-162769/2-A	Lab Control Sample	Total Recoverable	Water	6010B	162769

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Metals (Continued)

Analysis Batch: 162833 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-162768/1-B	Method Blank	Dissolved	Water	6010B	162769
MB 660-162769/1-A	Method Blank	Total Recoverable	Water	6010B	162769

Filtration Batch: 162845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-1	HM 10.5 SW (10/19/2015)	Dissolved	Water	FILTRATION	
660-69893-2	HM 10.5 PW (10/19/2015)	Dissolved	Water	FILTRATION	
660-69893-3	HM 9.5 SW (10/19/2015)	Dissolved	Water	FILTRATION	
660-69893-4	HM 9.5 PW (10/19/2015)	Dissolved	Water	FILTRATION	
MB 660-162845/1-B	Method Blank	Dissolved	Water	FILTRATION	

Prep Batch: 162846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-1	HM 10.5 SW (10/19/2015)	Dissolved	Water	3005A	162845
660-69893-1	HM 10.5 SW (10/19/2015)	Total Recoverable	Water	3005A	
660-69893-2	HM 10.5 PW (10/19/2015)	Dissolved	Water	3005A	162845
660-69893-2	HM 10.5 PW (10/19/2015)	Total Recoverable	Water	3005A	
660-69893-3	HM 9.5 SW (10/19/2015)	Dissolved	Water	3005A	162845
660-69893-3	HM 9.5 SW (10/19/2015)	Total Recoverable	Water	3005A	
660-69893-3 MS	HM 9.5 SW (10/19/2015)	Total Recoverable	Water	3005A	
660-69893-3 MSD	HM 9.5 SW (10/19/2015)	Total Recoverable	Water	3005A	
660-69893-4	HM 9.5 PW (10/19/2015)	Dissolved	Water	3005A	162845
660-69893-4	HM 9.5 PW (10/19/2015)	Total Recoverable	Water	3005A	
LCS 660-162846/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-162845/1-B	Method Blank	Dissolved	Water	3005A	162845
MB 660-162846/1-A	Method Blank	Total Recoverable	Water	3005A	

Prep Batch: 162895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-1	HM8.5 SW (10/20/2015)	Dissolved	Water	3005A	162897
660-69919-1	HM8.5 SW (10/20/2015)	Total Recoverable	Water	3005A	
660-69919-1 MS	HM8.5 SW (10/20/2015)	Total Recoverable	Water	3005A	
660-69919-2	HM8.5 PW (10/20/2015)	Dissolved	Water	3005A	162897
660-69919-2	HM8.5 PW (10/20/2015)	Total Recoverable	Water	3005A	
660-69919-2 MSD	HM8.5 PW (10/20/2015)	Total Recoverable	Water	3005A	
660-69919-3	HM7.5 SW (10/20/2015)	Dissolved	Water	3005A	162897
660-69919-3	HM7.5 SW (10/20/2015)	Total Recoverable	Water	3005A	
660-69919-4	HM7.5 PW (10/20/2015)	Dissolved	Water	3005A	162897
660-69919-4	HM7.5 PW (10/20/2015)	Total Recoverable	Water	3005A	
660-69919-5	HM6.5 SW (10-20-2015)	Dissolved	Water	3005A	162897
660-69919-5	HM6.5 SW (10-20-2015)	Total Recoverable	Water	3005A	
660-69919-6	HM6.5 PW (10-20-2015)	Dissolved	Water	3005A	162897
660-69919-6	HM6.5 PW (10-20-2015)	Total Recoverable	Water	3005A	
LCS 660-162895/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-162895/1-A	Method Blank	Total Recoverable	Water	3005A	
MB 660-162897/1-B	Method Blank	Dissolved	Water	3005A	162897

Filtration Batch: 162897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-1	HM8.5 SW (10/20/2015)	Dissolved	Water	FILTRATION	
660-69919-2	HM8.5 PW (10/20/2015)	Dissolved	Water	FILTRATION	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Metals (Continued)

Filtration Batch: 162897 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-3	HM7.5 SW (10/20/2015)	Dissolved	Water	FILTRATION	
660-69919-4	HM7.5 PW (10/20/2015)	Dissolved	Water	FILTRATION	
660-69919-5	HM6.5 SW (10-20-2015)	Dissolved	Water	FILTRATION	
660-69919-6	HM6.5 PW (10-20-2015)	Dissolved	Water	FILTRATION	
MB 660-162897/1-B	Method Blank	Dissolved	Water	FILTRATION	

Filtration Batch: 162907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-7	WW5.5 SW (10/26/2015)	Dissolved	Water	FILTRATION	
660-70053-8	WW5.5 PW (10/26/2015)	Dissolved	Water	FILTRATION	
660-70053-9	WW5.25 SW (10/26/2015)	Dissolved	Water	FILTRATION	
660-70053-10	WW5.25 PW (10/26/2015)	Dissolved	Water	FILTRATION	
660-70053-11	WW4.5 SW (10/26/2015)	Dissolved	Water	FILTRATION	
660-70053-12	WW4.5 PW (10/26/2015)	Dissolved	Water	FILTRATION	
660-70053-13	WW3.5 SW (10/26/2015)	Dissolved	Water	FILTRATION	
660-70053-14	WW3.5 PW (10/26/2015)	Dissolved	Water	FILTRATION	
MB 660-162907/1-B	Method Blank	Dissolved	Water	FILTRATION	

Prep Batch: 162908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-7	WW5.5 SW (10/26/2015)	Dissolved	Water	3005A	162907
660-70053-7	WW5.5 SW (10/26/2015)	Total Recoverable	Water	3005A	
660-70053-7 MS	WW5.5 SW (10/26/2015)	Total Recoverable	Water	3005A	
660-70053-7 MSD	WW5.5 SW (10/26/2015)	Total Recoverable	Water	3005A	
660-70053-8	WW5.5 PW (10/26/2015)	Dissolved	Water	3005A	162907
660-70053-8	WW5.5 PW (10/26/2015)	Total Recoverable	Water	3005A	
660-70053-9	WW5.25 SW (10/26/2015)	Dissolved	Water	3005A	162907
660-70053-9	WW5.25 SW (10/26/2015)	Total Recoverable	Water	3005A	
660-70053-10	WW5.25 PW (10/26/2015)	Dissolved	Water	3005A	162907
660-70053-10	WW5.25 PW (10/26/2015)	Total Recoverable	Water	3005A	
660-70053-11	WW4.5 SW (10/26/2015)	Dissolved	Water	3005A	162907
660-70053-11	WW4.5 SW (10/26/2015)	Total Recoverable	Water	3005A	
660-70053-12	WW4.5 PW (10/26/2015)	Dissolved	Water	3005A	162907
660-70053-12	WW4.5 PW (10/26/2015)	Total Recoverable	Water	3005A	
660-70053-13	WW3.5 SW (10/26/2015)	Dissolved	Water	3005A	162907
660-70053-13	WW3.5 SW (10/26/2015)	Total Recoverable	Water	3005A	
660-70053-14	WW3.5 PW (10/26/2015)	Dissolved	Water	3005A	162907
660-70053-14	WW3.5 PW (10/26/2015)	Total Recoverable	Water	3005A	
LCS 660-162908/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-162907/1-B	Method Blank	Dissolved	Water	3005A	162907
MB 660-162908/1-A	Method Blank	Total Recoverable	Water	3005A	

Filtration Batch: 162980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-7	HM5.5 SW (10-20-2015)	Dissolved	Water	FILTRATION	
660-69919-8	HM5.5 PW (10-20-2015)	Dissolved	Water	FILTRATION	
660-69919-9	HM4.5 SW(10/20/2015)	Dissolved	Water	FILTRATION	
660-69919-10	HM4.5 PW (10-20-2015)	Dissolved	Water	FILTRATION	
660-69919-11	HM3.5 SW (10-20-2015)	Dissolved	Water	FILTRATION	
660-69919-12	HM3.5 PW (10/20/2015)	Dissolved	Water	FILTRATION	
660-69974-12	HM 2.5 SW (10/21/2015)	Dissolved	Water	FILTRATION	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Metals (Continued)

Filtration Batch: 162980 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-13	HM 2.5 PW (10/21/2015)	Dissolved	Water	FILTRATION	
660-70002-1	HM1.5 SW(10/22/2015)	Dissolved	Water	FILTRATION	
660-70002-2	HM1.5 PW(10/22/2015)	Dissolved	Water	FILTRATION	
MB 660-162980/1-B	Method Blank	Dissolved	Water	FILTRATION	

Prep Batch: 162982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-7	HM5.5 SW (10-20-2015)	Dissolved	Water	3005A	162980
660-69919-7	HM5.5 SW (10-20-2015)	Total Recoverable	Water	3005A	
660-69919-7 MS	HM5.5 SW (10-20-2015)	Total Recoverable	Water	3005A	
660-69919-7 MSD	HM5.5 SW (10-20-2015)	Total Recoverable	Water	3005A	
660-69919-8	HM5.5 PW (10-20-2015)	Dissolved	Water	3005A	162980
660-69919-8	HM5.5 PW (10-20-2015)	Total Recoverable	Water	3005A	
660-69919-9	HM4.5 SW(10/20/2015)	Dissolved	Water	3005A	162980
660-69919-9	HM4.5 SW(10/20/2015)	Total Recoverable	Water	3005A	
660-69919-10	HM4.5 PW (10-20-2015)	Dissolved	Water	3005A	162980
660-69919-10	HM4.5 PW (10-20-2015)	Total Recoverable	Water	3005A	
660-69919-11	HM3.5 SW (10-20-2015)	Dissolved	Water	3005A	162980
660-69919-11	HM3.5 SW (10-20-2015)	Total Recoverable	Water	3005A	
660-69919-12	HM3.5 PW (10/20/2015)	Dissolved	Water	3005A	162980
660-69919-12	HM3.5 PW (10/20/2015)	Total Recoverable	Water	3005A	
660-69974-12	HM 2.5 SW (10/21/2015)	Dissolved	Water	3005A	162980
660-69974-12	HM 2.5 SW (10/21/2015)	Total Recoverable	Water	3005A	
660-69974-13	HM 2.5 PW (10/21/2015)	Dissolved	Water	3005A	162980
660-69974-13	HM 2.5 PW (10/21/2015)	Total Recoverable	Water	3005A	
660-70002-1	HM1.5 SW(10/22/2015)	Dissolved	Water	3005A	162980
660-70002-1	HM1.5 SW(10/22/2015)	Total Recoverable	Water	3005A	
660-70002-2	HM1.5 PW(10/22/2015)	Dissolved	Water	3005A	162980
660-70002-2	HM1.5 PW(10/22/2015)	Total Recoverable	Water	3005A	
LCS 660-162982/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-162980/1-B	Method Blank	Dissolved	Water	3005A	162980
MB 660-162982/1-A	Method Blank	Total Recoverable	Water	3005A	

Filtration Batch: 163006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70002-3	WW8.5SW(10/22/2015)	Dissolved	Water	FILTRATION	
660-70002-4	WW8.5PW(10/22/2015)	Dissolved	Water	FILTRATION	
660-70026-1	WW7.5SW(10/23/2015)	Dissolved	Water	FILTRATION	
660-70026-2	WW7.5 PW(10/23/2015)	Dissolved	Water	FILTRATION	
660-70026-3	WW6.5SW(10/23/2015)	Dissolved	Water	FILTRATION	
660-70026-4	WW6.5PW(10/23/2015)	Dissolved	Water	FILTRATION	
MB 660-163006/1-B	Method Blank	Dissolved	Water	FILTRATION	
MB 660-163006/1-C	Method Blank	Dissolved	Water	FILTRATION	

Analysis Batch: 163018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-1	HM 10.5 SW (10/19/2015)	Dissolved	Water	6010B	162846
660-69893-1	HM 10.5 SW (10/19/2015)	Total Recoverable	Water	6010B	162846
660-69893-2	HM 10.5 PW (10/19/2015)	Dissolved	Water	6010B	162846
660-69893-2	HM 10.5 PW (10/19/2015)	Total Recoverable	Water	6010B	162846
660-69893-3	HM 9.5 SW (10/19/2015)	Dissolved	Water	6010B	162846

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QC Association Summary

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Metals (Continued)

Analysis Batch: 163018 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-3	HM 9.5 SW (10/19/2015)	Total Recoverable	Water	6010B	162846
660-69893-3 MS	HM 9.5 SW (10/19/2015)	Total Recoverable	Water	6010B	162846
660-69893-3 MSD	HM 9.5 SW (10/19/2015)	Total Recoverable	Water	6010B	162846
660-69893-4	HM 9.5 PW (10/19/2015)	Dissolved	Water	6010B	162846
660-69893-4	HM 9.5 PW (10/19/2015)	Total Recoverable	Water	6010B	162846
LCS 660-162846/2-A	Lab Control Sample	Total Recoverable	Water	6010B	162846
MB 660-162845/1-B	Method Blank	Dissolved	Water	6010B	162846
MB 660-162846/1-A	Method Blank	Total Recoverable	Water	6010B	162846

Prep Batch: 163023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70002-3	WW8.5SW(10/22/2015)	Dissolved	Water	3005A	163006
660-70002-3	WW8.5SW(10/22/2015)	Total Recoverable	Water	3005A	
660-70002-4	WW8.5PW(10/22/2015)	Dissolved	Water	3005A	163006
660-70002-4	WW8.5PW(10/22/2015)	Total Recoverable	Water	3005A	
660-70026-1	WW7.5SW(10/23/2015)	Dissolved	Water	3005A	163006
660-70026-1	WW7.5SW(10/23/2015)	Total Recoverable	Water	3005A	
660-70026-2	WW7.5 PW(10/23/2015)	Dissolved	Water	3005A	163006
660-70026-2	WW7.5 PW(10/23/2015)	Total Recoverable	Water	3005A	
660-70026-3	WW6.5SW(10/23/2015)	Dissolved	Water	3005A	163006
660-70026-3	WW6.5SW(10/23/2015)	Total Recoverable	Water	3005A	
660-70026-4	WW6.5PW(10/23/2015)	Total Recoverable	Water	3005A	
LCS 660-163023/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-163006/1-B	Method Blank	Dissolved	Water	3005A	163006
MB 660-163023/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 163037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-4	CZ 4.5 PW (10/15/2015)	Dissolved	Water	6010B	162798
660-69852-4	CZ 4.5 PW (10/15/2015)	Total Recoverable	Water	6010B	162798
660-69852-5	CZ 5.5 SW (10/15/2015)	Dissolved	Water	6010B	162798
660-69852-5	CZ 5.5 SW (10/15/2015)	Total Recoverable	Water	6010B	162798
660-69852-5 MS	CZ 5.5 SW (10/15/2015)	Total Recoverable	Water	6010B	162798
660-69852-5 MSD	CZ 5.5 SW (10/15/2015)	Total Recoverable	Water	6010B	162798
660-69852-6	CZ 5.5 PW (10/15/2015)	Dissolved	Water	6010B	162798
660-69852-6	CZ 5.5 PW (10/15/2015)	Total Recoverable	Water	6010B	162798
660-69879-1	CZ 6.5 SW (10/16/2015)	Dissolved	Water	6010B	162798
660-69879-1	CZ 6.5 SW (10/16/2015)	Total Recoverable	Water	6010B	162798
660-69879-2	CZ 6.5 PW (10/16/2015)	Dissolved	Water	6010B	162798
660-69879-2	CZ 6.5 PW (10/16/2015)	Total Recoverable	Water	6010B	162798
660-69879-3	CZ 7.5 SW (10/16/2015)	Dissolved	Water	6010B	162798
660-69879-3	CZ 7.5 SW (10/16/2015)	Total Recoverable	Water	6010B	162798
660-69879-4	CZ 7.5 PW (10/16/2015)	Dissolved	Water	6010B	162798
660-69879-4	CZ 7.5 PW (10/16/2015)	Total Recoverable	Water	6010B	162798
660-69879-5	CZ 8.5 SW (10/16/2015)	Dissolved	Water	6010B	162798
660-69879-5	CZ 8.5 SW (10/16/2015)	Total Recoverable	Water	6010B	162798
660-69879-6	CZ 8.5 PW (10/16/2015)	Dissolved	Water	6010B	162798
660-69879-6	CZ 8.5 PW (10/16/2015)	Total Recoverable	Water	6010B	162798
660-69919-1	HM8.5 SW (10/20/2015)	Dissolved	Water	6010B	162895
660-69919-1	HM8.5 SW (10/20/2015)	Total Recoverable	Water	6010B	162895
660-69919-1 MS	HM8.5 SW (10/20/2015)	Total Recoverable	Water	6010B	162895

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Metals (Continued)

Analysis Batch: 163037 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-2	HM8.5 PW (10/20/2015)	Dissolved	Water	6010B	162895
660-69919-2	HM8.5 PW (10/20/2015)	Total Recoverable	Water	6010B	162895
660-69919-2 MSD	HM8.5 PW (10/20/2015)	Total Recoverable	Water	6010B	162895
660-69919-3	HM7.5 SW (10/20/2015)	Dissolved	Water	6010B	162895
660-69919-3	HM7.5 SW (10/20/2015)	Total Recoverable	Water	6010B	162895
660-69919-4	HM7.5 PW (10/20/2015)	Dissolved	Water	6010B	162895
660-69919-4	HM7.5 PW (10/20/2015)	Total Recoverable	Water	6010B	162895
660-69919-5	HM6.5 SW (10-20-2015)	Dissolved	Water	6010B	162895
660-69919-5	HM6.5 SW (10-20-2015)	Total Recoverable	Water	6010B	162895
660-69919-6	HM6.5 PW (10-20-2015)	Dissolved	Water	6010B	162895
660-69919-6	HM6.5 PW (10-20-2015)	Total Recoverable	Water	6010B	162895
660-69919-7	HM5.5 SW (10-20-2015)	Dissolved	Water	6010B	162982
660-69919-7	HM5.5 SW (10-20-2015)	Total Recoverable	Water	6010B	162982
660-69919-7 MS	HM5.5 SW (10-20-2015)	Total Recoverable	Water	6010B	162982
660-69919-7 MSD	HM5.5 SW (10-20-2015)	Total Recoverable	Water	6010B	162982
660-69919-8	HM5.5 PW (10-20-2015)	Dissolved	Water	6010B	162982
660-69919-8	HM5.5 PW (10-20-2015)	Total Recoverable	Water	6010B	162982
660-69919-9	HM4.5 SW(10/20/2015)	Dissolved	Water	6010B	162982
660-69919-9	HM4.5 SW(10/20/2015)	Total Recoverable	Water	6010B	162982
660-69919-10	HM4.5 PW (10-20-2015)	Dissolved	Water	6010B	162982
660-69919-10	HM4.5 PW (10-20-2015)	Total Recoverable	Water	6010B	162982
660-69919-11	HM3.5 SW (10-20-2015)	Dissolved	Water	6010B	162982
660-69919-11	HM3.5 SW (10-20-2015)	Total Recoverable	Water	6010B	162982
660-69919-12	HM3.5 PW (10/20/2015)	Dissolved	Water	6010B	162982
660-69919-12	HM3.5 PW (10/20/2015)	Total Recoverable	Water	6010B	162982
660-69974-12	HM 2.5 SW (10/21/2015)	Dissolved	Water	6010B	162982
660-69974-12	HM 2.5 SW (10/21/2015)	Total Recoverable	Water	6010B	162982
660-69974-13	HM 2.5 PW (10/21/2015)	Dissolved	Water	6010B	162982
660-69974-13	HM 2.5 PW (10/21/2015)	Total Recoverable	Water	6010B	162982
660-70002-1	HM1.5 SW(10/22/2015)	Dissolved	Water	6010B	162982
660-70002-1	HM1.5 SW(10/22/2015)	Total Recoverable	Water	6010B	162982
660-70002-2	HM1.5 PW(10/22/2015)	Dissolved	Water	6010B	162982
660-70002-2	HM1.5 PW(10/22/2015)	Total Recoverable	Water	6010B	162982
660-70002-3	WW8.5SW(10/22/2015)	Dissolved	Water	6010B	163023
660-70002-3	WW8.5SW(10/22/2015)	Total Recoverable	Water	6010B	163023
660-70002-4	WW8.5PW(10/22/2015)	Dissolved	Water	6010B	163023
660-70002-4	WW8.5PW(10/22/2015)	Total Recoverable	Water	6010B	163023
660-70026-1	WW7.5SW(10/23/2015)	Dissolved	Water	6010B	163023
660-70026-1	WW7.5SW(10/23/2015)	Total Recoverable	Water	6010B	163023
660-70026-2	WW7.5 PW(10/23/2015)	Dissolved	Water	6010B	163023
660-70026-2	WW7.5 PW(10/23/2015)	Total Recoverable	Water	6010B	163023
660-70026-3	WW6.5SW(10/23/2015)	Dissolved	Water	6010B	163023
660-70026-3	WW6.5SW(10/23/2015)	Total Recoverable	Water	6010B	163023
660-70026-4	WW6.5PW(10/23/2015)	Total Recoverable	Water	6010B	163023
LCS 660-162798/2-A	Lab Control Sample	Total Recoverable	Water	6010B	162798
LCS 660-162895/2-A	Lab Control Sample	Total Recoverable	Water	6010B	162895
LCS 660-162982/2-A	Lab Control Sample	Total Recoverable	Water	6010B	162982
LCS 660-163023/2-A	Lab Control Sample	Total Recoverable	Water	6010B	163023
MB 660-162798/1-A	Method Blank	Total Recoverable	Water	6010B	162798
MB 660-162799/1-B	Method Blank	Dissolved	Water	6010B	162798
MB 660-162895/1-A	Method Blank	Total Recoverable	Water	6010B	162895

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Metals (Continued)

Analysis Batch: 163037 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-162897/1-B	Method Blank	Dissolved	Water	6010B	162895
MB 660-162980/1-B	Method Blank	Dissolved	Water	6010B	162982
MB 660-162982/1-A	Method Blank	Total Recoverable	Water	6010B	162982
MB 660-163006/1-B	Method Blank	Dissolved	Water	6010B	163023
MB 660-163023/1-A	Method Blank	Total Recoverable	Water	6010B	163023

Prep Batch: 163060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70026-4	WW6.5PW(10/23/2015)	Dissolved	Water	3005A	163006
LCS 660-163060/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-163006/1-C	Method Blank	Dissolved	Water	3005A	163006
MB 660-163060/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 163065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-7	WW5.5 SW (10/26/2015)	Dissolved	Water	6010B	162908
660-70053-7	WW5.5 SW (10/26/2015)	Total Recoverable	Water	6010B	162908
660-70053-7 MS	WW5.5 SW (10/26/2015)	Total Recoverable	Water	6010B	162908
660-70053-7 MSD	WW5.5 SW (10/26/2015)	Total Recoverable	Water	6010B	162908
660-70053-8	WW5.5 PW (10/26/2015)	Dissolved	Water	6010B	162908
660-70053-8	WW5.5 PW (10/26/2015)	Total Recoverable	Water	6010B	162908
660-70053-9	WW5.25 SW (10/26/2015)	Dissolved	Water	6010B	162908
660-70053-9	WW5.25 SW (10/26/2015)	Total Recoverable	Water	6010B	162908
660-70053-10	WW5.25 PW (10/26/2015)	Dissolved	Water	6010B	162908
660-70053-10	WW5.25 PW (10/26/2015)	Total Recoverable	Water	6010B	162908
660-70053-11	WW4.5 SW (10/26/2015)	Dissolved	Water	6010B	162908
660-70053-11	WW4.5 SW (10/26/2015)	Total Recoverable	Water	6010B	162908
660-70053-12	WW4.5 PW (10/26/2015)	Dissolved	Water	6010B	162908
660-70053-12	WW4.5 PW (10/26/2015)	Total Recoverable	Water	6010B	162908
660-70053-13	WW3.5 SW (10/26/2015)	Dissolved	Water	6010B	162908
660-70053-13	WW3.5 SW (10/26/2015)	Total Recoverable	Water	6010B	162908
660-70053-14	WW3.5 PW (10/26/2015)	Dissolved	Water	6010B	162908
660-70053-14	WW3.5 PW (10/26/2015)	Total Recoverable	Water	6010B	162908
LCS 660-162908/2-A	Lab Control Sample	Total Recoverable	Water	6010B	162908
MB 660-162907/1-B	Method Blank	Dissolved	Water	6010B	162908
MB 660-162908/1-A	Method Blank	Total Recoverable	Water	6010B	162908

Filtration Batch: 163078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-1	WW2.5 SW (10/27/2015)	Dissolved	Water	FILTRATION	
660-70082-2	WW2.5 PW (10/27/2015)	Dissolved	Water	FILTRATION	
660-70082-3	WW1.5 SW (10/27/2015)	Dissolved	Water	FILTRATION	
660-70082-4	WW1.5 PW (10/27/2015)	Dissolved	Water	FILTRATION	
MB 660-163078/1-B	Method Blank	Dissolved	Water	FILTRATION	

Prep Batch: 163079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-1	WW2.5 SW (10/27/2015)	Dissolved	Water	3005A	163078
660-70082-1	WW2.5 SW (10/27/2015)	Total Recoverable	Water	3005A	
660-70082-2	WW2.5 PW (10/27/2015)	Dissolved	Water	3005A	163078
660-70082-2	WW2.5 PW (10/27/2015)	Total Recoverable	Water	3005A	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Metals (Continued)

Prep Batch: 163079 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-3	WW1.5 SW (10/27/2015)	Dissolved	Water	3005A	163078
660-70082-3	WW1.5 SW (10/27/2015)	Total Recoverable	Water	3005A	
660-70082-4	WW1.5 PW (10/27/2015)	Dissolved	Water	3005A	163078
660-70082-4	WW1.5 PW (10/27/2015)	Total Recoverable	Water	3005A	
LCS 660-163079/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 660-163078/1-B	Method Blank	Dissolved	Water	3005A	163078
MB 660-163079/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 163084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70026-4	WW6.5PW(10/23/2015)	Dissolved	Water	6010B	163060
660-70082-1	WW2.5 SW (10/27/2015)	Dissolved	Water	6010B	163079
660-70082-1	WW2.5 SW (10/27/2015)	Total Recoverable	Water	6010B	163079
660-70082-2	WW2.5 PW (10/27/2015)	Dissolved	Water	6010B	163079
660-70082-2	WW2.5 PW (10/27/2015)	Total Recoverable	Water	6010B	163079
660-70082-3	WW1.5 SW (10/27/2015)	Dissolved	Water	6010B	163079
660-70082-3	WW1.5 SW (10/27/2015)	Total Recoverable	Water	6010B	163079
660-70082-4	WW1.5 PW (10/27/2015)	Dissolved	Water	6010B	163079
660-70082-4	WW1.5 PW (10/27/2015)	Total Recoverable	Water	6010B	163079
LCS 660-163060/2-A	Lab Control Sample	Total Recoverable	Water	6010B	163060
LCS 660-163079/2-A	Lab Control Sample	Total Recoverable	Water	6010B	163079
MB 660-163006/1-C	Method Blank	Dissolved	Water	6010B	163060
MB 660-163060/1-A	Method Blank	Total Recoverable	Water	6010B	163060
MB 660-163079/1-A	Method Blank	Total Recoverable	Water	6010B	163079

Analysis Batch: 163100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 660-163078/1-B	Method Blank	Dissolved	Water	6010B	163079

Prep Batch: 278963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-3	CZ 10 SED (08/12/2015)	Total/NA	Solid	3050B	
660-68566-3 MS	CZ 10 SED (08/12/2015)	Total/NA	Solid	3050B	
660-68566-3 MSD	CZ 10 SED (08/12/2015)	Total/NA	Solid	3050B	
660-68601-3	WW 10 SED (08/13/2015)	Total/NA	Solid	3050B	
LCS 400-278963/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 400-278963/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 279391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-3	CZ 10 SED (08/12/2015)	Total/NA	Solid	6010B	278963
660-68566-3 MS	CZ 10 SED (08/12/2015)	Total/NA	Solid	6010B	278963
660-68566-3 MSD	CZ 10 SED (08/12/2015)	Total/NA	Solid	6010B	278963
660-68601-3	WW 10 SED (08/13/2015)	Total/NA	Solid	6010B	278963
LCS 400-278963/2-A	Lab Control Sample	Total/NA	Solid	6010B	278963
MB 400-278963/1-A	Method Blank	Total/NA	Solid	6010B	278963

Prep Batch: 279662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-1	CZ 0.5 SED (10/14/2015)	Total/NA	Solid	3050B	
660-69823-4	CZ 1.0 SED (10/14/2015)	Total/NA	Solid	3050B	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Metals (Continued)

Prep Batch: 279662 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-5	CZ 1.5 SED (10/14/2015)	Total/NA	Solid	3050B	
660-69823-8	CZ 2.0 SED (10/14/2015)	Total/NA	Solid	3050B	
660-69823-9	CZ 2.5 SED (10/14/2015)	Total/NA	Solid	3050B	
660-69852-7	CZ 3.0 SED (10/15/2015)	Total/NA	Solid	3050B	
660-69852-8	CZ 3.5 SED (10/15/2015)	Total/NA	Solid	3050B	
660-69852-9	CZ 4.0 SED (10/15/2015)	Total/NA	Solid	3050B	
LCS 400-279662/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 400-279662/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 279986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-10	CZ 4.5 SED (10/15/2015)	Total/NA	Solid	3050B	
660-69852-11	CZ 5.0 SED (10/15/2015)	Total/NA	Solid	3050B	
660-69852-12	CZ 5.5 SED (10/15/2015)	Total/NA	Solid	3050B	
660-69852-13	CZ 6.0 SED (10/15/2015)	Total/NA	Solid	3050B	
660-69879-7	CZ 6.5 SED (10/16/2015)	Total/NA	Solid	3050B	
660-69879-8	CZ 7.0 SED (10/16/2015)	Total/NA	Solid	3050B	
660-69879-9	CZ 7.5 SED (10/16/2015)	Total/NA	Solid	3050B	
660-69879-10	CZ 8.0 SED (10/16/2015)	Total/NA	Solid	3050B	
660-69879-11	CZ 8.5 SED (10/16/2015)	Total/NA	Solid	3050B	
660-69879-12	CZ 9.0 SED (10/16/2015)	Total/NA	Solid	3050B	
660-69879-13	CZ 9.5 SED (10/16/2015)	Total/NA	Solid	3050B	
660-69893-5	HM 10.5 SED (10/19/2015)	Total/NA	Solid	3050B	
660-69893-6	HM 10.0 SED (10/19/2015)	Total/NA	Solid	3050B	
660-69893-7	HM 9.5 SED (10/19/2015)	Total/NA	Solid	3050B	
660-69893-8	HM 9.0 SED (10/19/2015)	Total/NA	Solid	3050B	
LCS 400-279986/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 400-279986/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 280161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-1	CZ 0.5 SED (10/14/2015)	Total/NA	Solid	6010B	279662
660-69823-4	CZ 1.0 SED (10/14/2015)	Total/NA	Solid	6010B	279662
660-69823-5	CZ 1.5 SED (10/14/2015)	Total/NA	Solid	6010B	279662
660-69823-8	CZ 2.0 SED (10/14/2015)	Total/NA	Solid	6010B	279662
660-69823-9	CZ 2.5 SED (10/14/2015)	Total/NA	Solid	6010B	279662
660-69852-7	CZ 3.0 SED (10/15/2015)	Total/NA	Solid	6010B	279662
660-69852-8	CZ 3.5 SED (10/15/2015)	Total/NA	Solid	6010B	279662
660-69852-9	CZ 4.0 SED (10/15/2015)	Total/NA	Solid	6010B	279662
LCS 400-279662/2-A	Lab Control Sample	Total/NA	Solid	6010B	279662
MB 400-279662/1-A	Method Blank	Total/NA	Solid	6010B	279662

Prep Batch: 280181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-13	HM 8.5 SED (10/20/2015)	Total/NA	Solid	3050B	
LCS 400-280181/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 400-280181/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 280268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-1	HM 8.0 SED (10/21/2015)	Total/NA	Solid	3050B	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Metals (Continued)

Prep Batch: 280268 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-1 MS	HM 8.0SED (10/21/2015)	Total/NA	Solid	3050B	
660-69974-1 MSD	HM 8.0SED (10/21/2015)	Total/NA	Solid	3050B	
660-69974-2	HM 7.5 SED (10/21/2015)	Total/NA	Solid	3050B	
660-69974-3	HM 7.0 SED (10/21/2015)	Total/NA	Solid	3050B	
660-69974-4	HM 6.5 SED (10/21/2015)	Total/NA	Solid	3050B	
660-69974-5	HM 6.0 SED (10/21/2015)	Total/NA	Solid	3050B	
660-69974-6	HM 5.5 SED (10/21/2015)	Total/NA	Solid	3050B	
660-69974-7	HM 5.0 SED (10/21/2015)	Total/NA	Solid	3050B	
660-69974-8	HM 4.5 SED (10/21/2015)	Total/NA	Solid	3050B	
660-69974-9	HM 4.0 SED (10/21/2015)	Total/NA	Solid	3050B	
660-69974-10	HM 3.5 SED (10/21/2015)	Total/NA	Solid	3050B	
660-69974-11	HM 3.0 SED (10/21/2015)	Total/NA	Solid	3050B	
660-69974-14	HM SED 2.5 (10/21/2015)	Total/NA	Solid	3050B	
LCS 400-280268/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 400-280268/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 280815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-10	CZ 4.5 SED (10/15/2015)	Total/NA	Solid	6010B	279986
660-69852-11	CZ 5.0 SED (10/15/2015)	Total/NA	Solid	6010B	279986
660-69852-12	CZ 5.5 SED (10/15/2015)	Total/NA	Solid	6010B	279986
660-69852-13	CZ 6.0 SED (10/15/2015)	Total/NA	Solid	6010B	279986
660-69879-7	CZ 6.5 SED (10/16/2015)	Total/NA	Solid	6010B	279986
660-69879-8	CZ 7.0 SED (10/16/2015)	Total/NA	Solid	6010B	279986
660-69879-9	CZ 7.5 SED (10/16/2015)	Total/NA	Solid	6010B	279986
660-69879-10	CZ 8.0 SED (10/16/2015)	Total/NA	Solid	6010B	279986
660-69879-11	CZ 8.5 SED (10/16/2015)	Total/NA	Solid	6010B	279986
660-69879-12	CZ 9.0 SED (10/16/2015)	Total/NA	Solid	6010B	279986
660-69879-13	CZ 9.5 SED (10/16/2015)	Total/NA	Solid	6010B	279986
660-69893-5	HM 10.5 SED (10/19/2015)	Total/NA	Solid	6010B	279986
660-69893-6	HM 10.0 SED (10/19/2015)	Total/NA	Solid	6010B	279986
660-69893-7	HM 9.5 SED (10/19/2015)	Total/NA	Solid	6010B	279986
660-69893-8	HM 9.0 SED (10/19/2015)	Total/NA	Solid	6010B	279986
LCS 400-279986/2-A	Lab Control Sample	Total/NA	Solid	6010B	279986
MB 400-279986/1-A	Method Blank	Total/NA	Solid	6010B	279986

Analysis Batch: 281073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-13	HM8.5 SED (10/20/2015)	Total/NA	Solid	6010B	280181
LCS 400-280181/2-A	Lab Control Sample	Total/NA	Solid	6010B	280181
MB 400-280181/1-A	Method Blank	Total/NA	Solid	6010B	280181

Analysis Batch: 281232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-1	HM 8.0SED (10/21/2015)	Total/NA	Solid	6010B	280268
660-69974-1 MS	HM 8.0SED (10/21/2015)	Total/NA	Solid	6010B	280268
660-69974-1 MSD	HM 8.0SED (10/21/2015)	Total/NA	Solid	6010B	280268
660-69974-2	HM 7.5 SED (10/21/2015)	Total/NA	Solid	6010B	280268
660-69974-3	HM 7.0 SED (10/21/2015)	Total/NA	Solid	6010B	280268
660-69974-4	HM 6.5 SED (10/21/2015)	Total/NA	Solid	6010B	280268
660-69974-5	HM 6.0 SED (10/21/2015)	Total/NA	Solid	6010B	280268

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Metals (Continued)

Analysis Batch: 281232 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-6	HM 5.5 SED (10/21/2015)	Total/NA	Solid	6010B	280268
660-69974-7	HM 5.0 SED (10/21/2015)	Total/NA	Solid	6010B	280268
660-69974-8	HM 4.5 SED (10/21/2015)	Total/NA	Solid	6010B	280268
660-69974-9	HM 4.0 SED (10/21/2015)	Total/NA	Solid	6010B	280268
660-69974-10	HM 3.5 SED (10/21/2015)	Total/NA	Solid	6010B	280268
660-69974-11	HM 3.0 SED (10/21/2015)	Total/NA	Solid	6010B	280268
660-69974-14	HM SED 2.5 (10/21/2015)	Total/NA	Solid	6010B	280268
LCS 400-280268/2-A	Lab Control Sample	Total/NA	Solid	6010B	280268
MB 400-280268/1-A	Method Blank	Total/NA	Solid	6010B	280268

Prep Batch: 281286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70002-5	HM2.0SED(10/22/2015)	Total/NA	Solid	3050B	
660-70002-6	HM1.5SED(10/22/2015)	Total/NA	Solid	3050B	
660-70002-7	HM1.0SED(10/22/2015)	Total/NA	Solid	3050B	
660-70002-8	WW9.5SED(10/22/2015)	Total/NA	Solid	3050B	
660-70002-8 MS	WW9.5SED(10/22/2015)	Total/NA	Solid	3050B	
660-70002-8 MSD	WW9.5SED(10/22/2015)	Total/NA	Solid	3050B	
660-70002-9	WW9.0SED(10/22/2015)	Total/NA	Solid	3050B	
660-70002-10	WW8.5SED(10/22/2015)	Total/NA	Solid	3050B	
660-70026-5	WW8.0SED(10/23/2015)	Total/NA	Solid	3050B	
660-70026-6	WW7.5SED(10/23/2015)	Total/NA	Solid	3050B	
660-70026-7	WW7.0SED(10/23/2015)	Total/NA	Solid	3050B	
660-70026-8	WW6.5SED(10/23/2015)	Total/NA	Solid	3050B	
660-70026-9	WW6.0SED(10/23/2015)	Total/NA	Solid	3050B	
660-70053-1	WW5.5 SED (10/26/2015)	Total/NA	Solid	3050B	
660-70053-2	WW5.25 SED (10/26/2015)	Total/NA	Solid	3050B	
660-70053-3	WW5.0 SED (10/26/2015)	Total/NA	Solid	3050B	
660-70053-4	WW 4.5 SED (10/26/2015)	Total/NA	Solid	3050B	
660-70053-5	WW4.0 SED (10/26/2015)	Total/NA	Solid	3050B	
660-70053-6	WW3.5 SED (10/26/2015)	Total/NA	Solid	3050B	
LCS 400-281286/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 400-281286/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 281398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-5	WW3.0 SED (10/27/2015)	Total/NA	Solid	3050B	
660-70082-6	WW2.5 SED (10/27/2015)	Total/NA	Solid	3050B	
660-70082-7	WW2.0 SED (10/27/2015)	Total/NA	Solid	3050B	
660-70082-8	WW1.5 SED (10/27/2015)	Total/NA	Solid	3050B	
660-70082-9	WW1.0 SED (10/27/2015)	Total/NA	Solid	3050B	
LCS 400-281398/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 400-281398/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 281870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70002-5	HM2.0SED(10/22/2015)	Total/NA	Solid	6010B	281286
660-70002-6	HM1.5SED(10/22/2015)	Total/NA	Solid	6010B	281286
660-70002-7	HM1.0SED(10/22/2015)	Total/NA	Solid	6010B	281286
660-70002-8	WW9.5SED(10/22/2015)	Total/NA	Solid	6010B	281286
660-70002-8 MS	WW9.5SED(10/22/2015)	Total/NA	Solid	6010B	281286

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Metals (Continued)

Analysis Batch: 281870 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70002-8 MSD	WW9.5SED(10/22/2015)	Total/NA	Solid	6010B	281286
660-70002-9	WW9.0SED(10/22/2015)	Total/NA	Solid	6010B	281286
660-70002-10	WW8.5SED(10/22/2015)	Total/NA	Solid	6010B	281286
660-70026-5	WW8.0SED(10/23/2015)	Total/NA	Solid	6010B	281286
660-70026-6	WW7.5SED(10/23/2015)	Total/NA	Solid	6010B	281286
660-70026-7	WW7.0SED(10/23/2015)	Total/NA	Solid	6010B	281286
660-70026-8	WW6.5SED(10/23/2015)	Total/NA	Solid	6010B	281286
660-70026-9	WW6.0SED(10/23/2015)	Total/NA	Solid	6010B	281286
660-70053-1	WW5.5 SED (10/26/2015)	Total/NA	Solid	6010B	281286
660-70053-2	WW5.25 SED (10/26/2015)	Total/NA	Solid	6010B	281286
660-70053-3	WW5.0 SED (10/26/2015)	Total/NA	Solid	6010B	281286
660-70053-4	WW4.5 SED (10/26/2015)	Total/NA	Solid	6010B	281286
660-70053-5	WW4.0 SED (10/26/2015)	Total/NA	Solid	6010B	281286
660-70053-6	WW3.5 SED (10/26/2015)	Total/NA	Solid	6010B	281286
660-70082-5	WW3.0 SED (10/27/2015)	Total/NA	Solid	6010B	281398
660-70082-6	WW2.5 SED (10/27/2015)	Total/NA	Solid	6010B	281398
660-70082-7	WW2.0 SED (10/27/2015)	Total/NA	Solid	6010B	281398
660-70082-8	WW1.5 SED (10/27/2015)	Total/NA	Solid	6010B	281398
660-70082-9	WW1.0 SED (10/27/2015)	Total/NA	Solid	6010B	281398
LCS 400-281286/2-A	Lab Control Sample	Total/NA	Solid	6010B	281286
LCS 400-281398/2-A	Lab Control Sample	Total/NA	Solid	6010B	281398
MB 400-281286/1-A	Method Blank	Total/NA	Solid	6010B	281286
MB 400-281398/1-A	Method Blank	Total/NA	Solid	6010B	281398

General Chemistry

Prep Batch: 118119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-1	CZ 10 SW (08/12/2015)	Total/NA	Water	365.2/365.3/365	
660-68566-2	CZ 10 PW (08/12/2015)	Total/NA	Water	365.2/365.3/365	
660-68566-2 MS	CZ 10 PW (08/12/2015)	Total/NA	Water	365.2/365.3/365	
660-68566-2 MSD	CZ 10 PW (08/12/2015)	Total/NA	Water	365.2/365.3/365	
DLCK 640-118119/4-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
LCS 640-118119/5-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
LCSD 640-118119/6-A	Lab Control Sample Dup	Total/NA	Water	365.2/365.3/365	
MB 640-118119/3-A	Method Blank	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 118133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-1	CZ 10 SW (08/12/2015)	Total/NA	Water	365.1	118119
660-68566-2	CZ 10 PW (08/12/2015)	Total/NA	Water	365.1	118119
660-68566-2 MS	CZ 10 PW (08/12/2015)	Total/NA	Water	365.1	118119
660-68566-2 MSD	CZ 10 PW (08/12/2015)	Total/NA	Water	365.1	118119
DLCK 640-118119/4-A	Lab Control Sample	Total/NA	Water	365.1	118119
LCS 640-118119/5-A	Lab Control Sample	Total/NA	Water	365.1	118119
LCSD 640-118119/6-A	Lab Control Sample Dup	Total/NA	Water	365.1	118119
MB 640-118119/3-A	Method Blank	Total/NA	Water	365.1	118119

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Prep Batch: 118138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68601-1	WW 10 SW (08/13/2015)	Total/NA	Water	365.2/365.3/365	
660-68601-2	WW 10 PW (08/13/2015)	Total/NA	Water	365.2/365.3/365	
DLCK 640-118138/4-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
LCS 640-118138/5-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
LCS 640-118138/6-A	Lab Control Sample Dup	Total/NA	Water	365.2/365.3/365	
MB 640-118138/3-A	Method Blank	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 118149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68601-1	WW 10 SW (08/13/2015)	Total/NA	Water	365.1	118138
660-68601-2	WW 10 PW (08/13/2015)	Total/NA	Water	365.1	118138
DLCK 640-118138/4-A	Lab Control Sample	Total/NA	Water	365.1	118138
LCS 640-118138/5-A	Lab Control Sample	Total/NA	Water	365.1	118138
LCS 640-118138/6-A	Lab Control Sample Dup	Total/NA	Water	365.1	118138
MB 640-118138/3-A	Method Blank	Total/NA	Water	365.1	118138

Filtration Batch: 160506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-1	CZ 10 SW (08/12/2015)	Dissolved	Water	FILTRATION	
660-68566-1 MS	CZ 10 SW (08/12/2015)	Dissolved	Water	FILTRATION	
660-68566-1 MSD	CZ 10 SW (08/12/2015)	Dissolved	Water	FILTRATION	
660-68566-2	CZ 10 PW (08/12/2015)	Dissolved	Water	FILTRATION	
660-68601-1	WW 10 SW (08/13/2015)	Dissolved	Water	FILTRATION	
660-68601-2	WW 10 PW (08/13/2015)	Dissolved	Water	FILTRATION	

Analysis Batch: 160507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-1	CZ 10 SW (08/12/2015)	Dissolved	Water	365.2	160506
660-68566-1 MS	CZ 10 SW (08/12/2015)	Dissolved	Water	365.2	160506
660-68566-1 MSD	CZ 10 SW (08/12/2015)	Dissolved	Water	365.2	160506
660-68566-2	CZ 10 PW (08/12/2015)	Dissolved	Water	365.2	160506
660-68601-1	WW 10 SW (08/13/2015)	Dissolved	Water	365.2	160506
660-68601-2	WW 10 PW (08/13/2015)	Dissolved	Water	365.2	160506

Analysis Batch: 160651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-1	CZ 10 SW (08/12/2015)	Total/NA	Water	353.2	
660-68566-2	CZ 10 PW (08/12/2015)	Total/NA	Water	353.2	
660-68566-D-1 MS	660-68566-D-1 MS	Total/NA	Water	353.2	
660-68566-D-1 MSD	660-68566-D-1 MSD	Total/NA	Water	353.2	
LCS 660-160651/11	Lab Control Sample	Total/NA	Water	353.2	
MB 660-160651/8	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 160767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68601-1	WW 10 SW (08/13/2015)	Total/NA	Water	353.2	
660-68601-1 MS	WW 10 SW (08/13/2015)	Total/NA	Water	353.2	
660-68601-1 MSD	WW 10 SW (08/13/2015)	Total/NA	Water	353.2	
660-68601-2	WW 10 PW (08/13/2015)	Total/NA	Water	353.2	
LCS 660-160767/11	Lab Control Sample	Total/NA	Water	353.2	
MB 660-160767/8	Method Blank	Total/NA	Water	353.2	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Analysis Batch: 160898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-1	CZ 10 SW (08/12/2015)	Total/NA	Water	Nitrate by calc	
660-68566-2	CZ 10 PW (08/12/2015)	Total/NA	Water	Nitrate by calc	
660-68601-1	WW 10 SW (08/13/2015)	Total/NA	Water	Nitrate by calc	
660-68601-2	WW 10 PW (08/13/2015)	Total/NA	Water	Nitrate by calc	

Analysis Batch: 162379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-2	CZ 0.5 SW (10/14/2015)	Total/NA	Water	353.2	
660-69823-3	CZ 0.5 PW (10/14/2015)	Total/NA	Water	353.2	
660-69823-6	CZ 1.5 SW (10/14/2015)	Total/NA	Water	353.2	
660-69823-7	CZ 1.5 PW (10/14/2015)	Total/NA	Water	353.2	
660-69823-10	CZ 2.5 SW (10/14/2015)	Total/NA	Water	353.2	
660-69823-10 MS	CZ 2.5 SW (10/14/2015)	Total/NA	Water	353.2	
660-69823-10 MSD	CZ 2.5 SW (10/14/2015)	Total/NA	Water	353.2	
660-69823-11	CZ 2.5 PW (10/14/2015)	Total/NA	Water	353.2	
LCS 660-162379/9	Lab Control Sample	Total/NA	Water	353.2	
MB 660-162379/7	Method Blank	Total/NA	Water	353.2	

Filtration Batch: 162382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-1	CZ 3.5 SW (10/15/2015)	Dissolved	Water	FILTRATION	
660-69852-1 MS	CZ 3.5 SW (10/15/2015)	Dissolved	Water	FILTRATION	
660-69852-1 MSD	CZ 3.5 SW (10/15/2015)	Dissolved	Water	FILTRATION	
660-69852-2	CZ 3.5 PW (10/15/2015)	Dissolved	Water	FILTRATION	
660-69852-3	CZ 4.5 SW (10/15/2015)	Dissolved	Water	FILTRATION	
660-69852-4	CZ 4.5 PW (10/15/2015)	Dissolved	Water	FILTRATION	
660-69852-5	CZ 5.5 SW (10/15/2015)	Dissolved	Water	FILTRATION	
660-69852-6	CZ 5.5 PW (10/15/2015)	Dissolved	Water	FILTRATION	
LCS 660-162382/2-A	Lab Control Sample	Dissolved	Water	FILTRATION	
MB 660-162382/1-A	Method Blank	Dissolved	Water	FILTRATION	

Analysis Batch: 162383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-1	CZ 3.5 SW (10/15/2015)	Dissolved	Water	365.2	162382
660-69852-1 MS	CZ 3.5 SW (10/15/2015)	Dissolved	Water	365.2	162382
660-69852-1 MSD	CZ 3.5 SW (10/15/2015)	Dissolved	Water	365.2	162382
660-69852-2	CZ 3.5 PW (10/15/2015)	Dissolved	Water	365.2	162382
660-69852-3	CZ 4.5 SW (10/15/2015)	Dissolved	Water	365.2	162382
660-69852-4	CZ 4.5 PW (10/15/2015)	Dissolved	Water	365.2	162382
660-69852-5	CZ 5.5 SW (10/15/2015)	Dissolved	Water	365.2	162382
660-69852-6	CZ 5.5 PW (10/15/2015)	Dissolved	Water	365.2	162382
LCS 660-162382/2-A	Lab Control Sample	Dissolved	Water	365.2	162382
MB 660-162382/1-A	Method Blank	Dissolved	Water	365.2	162382

Analysis Batch: 162403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-1	CZ 3.5 SW (10/15/2015)	Total/NA	Water	353.2	
660-69852-1 MS	CZ 3.5 SW (10/15/2015)	Total/NA	Water	353.2	
660-69852-1 MSD	CZ 3.5 SW (10/15/2015)	Total/NA	Water	353.2	
660-69852-2	CZ 3.5 PW (10/15/2015)	Total/NA	Water	353.2	
660-69852-3	CZ 4.5 SW (10/15/2015)	Total/NA	Water	353.2	
660-69852-4	CZ 4.5 PW (10/15/2015)	Total/NA	Water	353.2	
660-69852-5	CZ 5.5 SW (10/15/2015)	Total/NA	Water	353.2	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 162403 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-6	CZ 5.5 PW (10/15/2015)	Total/NA	Water	353.2	
LCS 660-162403/11	Lab Control Sample	Total/NA	Water	353.2	
MB 660-162403/8	Method Blank	Total/NA	Water	353.2	

Filtration Batch: 162404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-2	CZ 0.5 SW (10/14/2015)	Dissolved	Water	FILTRATION	
660-69823-2 MS	CZ 0.5 SW (10/14/2015)	Dissolved	Water	FILTRATION	
660-69823-2 MSD	CZ 0.5 SW (10/14/2015)	Dissolved	Water	FILTRATION	
660-69823-3	CZ 0.5 PW (10/14/2015)	Dissolved	Water	FILTRATION	
660-69823-6	CZ 1.5 SW (10/14/2015)	Dissolved	Water	FILTRATION	
660-69823-7	CZ 1.5 PW (10/14/2015)	Dissolved	Water	FILTRATION	
660-69823-10	CZ 2.5 SW (10/14/2015)	Dissolved	Water	FILTRATION	
660-69823-11	CZ 2.5 PW (10/14/2015)	Dissolved	Water	FILTRATION	
LCS 660-162404/2-A	Lab Control Sample	Dissolved	Water	FILTRATION	
MB 660-162404/1-A	Method Blank	Dissolved	Water	FILTRATION	

Analysis Batch: 162405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-2	CZ 0.5 SW (10/14/2015)	Dissolved	Water	365.2	162404
660-69823-2 MS	CZ 0.5 SW (10/14/2015)	Dissolved	Water	365.2	162404
660-69823-2 MSD	CZ 0.5 SW (10/14/2015)	Dissolved	Water	365.2	162404
660-69823-3	CZ 0.5 PW (10/14/2015)	Dissolved	Water	365.2	162404
660-69823-6	CZ 1.5 SW (10/14/2015)	Dissolved	Water	365.2	162404
660-69823-7	CZ 1.5 PW (10/14/2015)	Dissolved	Water	365.2	162404
660-69823-10	CZ 2.5 SW (10/14/2015)	Dissolved	Water	365.2	162404
660-69823-11	CZ 2.5 PW (10/14/2015)	Dissolved	Water	365.2	162404
LCS 660-162404/2-A	Lab Control Sample	Dissolved	Water	365.2	162404
MB 660-162404/1-A	Method Blank	Dissolved	Water	365.2	162404

Filtration Batch: 162482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69879-1	CZ 6.5 SW (10/16/2015)	Dissolved	Water	FILTRATION	
660-69879-1 MS	CZ 6.5 SW (10/16/2015)	Dissolved	Water	FILTRATION	
660-69879-1 MSD	CZ 6.5 SW (10/16/2015)	Dissolved	Water	FILTRATION	
660-69879-2	CZ 6.5 PW (10/16/2015)	Dissolved	Water	FILTRATION	
660-69879-3	CZ 7.5 SW (10/16/2015)	Dissolved	Water	FILTRATION	
660-69879-4	CZ 7.5 PW (10/16/2015)	Dissolved	Water	FILTRATION	
660-69879-5	CZ 8.5 SW (10/16/2015)	Dissolved	Water	FILTRATION	
660-69879-6	CZ 8.5 PW (10/16/2015)	Dissolved	Water	FILTRATION	
LCS 660-162482/2-A	Lab Control Sample	Dissolved	Water	FILTRATION	
MB 660-162482/1-A	Method Blank	Dissolved	Water	FILTRATION	

Analysis Batch: 162483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69879-1	CZ 6.5 SW (10/16/2015)	Dissolved	Water	365.2	162482
660-69879-1 MS	CZ 6.5 SW (10/16/2015)	Dissolved	Water	365.2	162482
660-69879-1 MSD	CZ 6.5 SW (10/16/2015)	Dissolved	Water	365.2	162482
660-69879-2	CZ 6.5 PW (10/16/2015)	Dissolved	Water	365.2	162482
660-69879-3	CZ 7.5 SW (10/16/2015)	Dissolved	Water	365.2	162482
660-69879-4	CZ 7.5 PW (10/16/2015)	Dissolved	Water	365.2	162482

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 162483 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69879-5	CZ 8.5 SW (10/16/2015)	Dissolved	Water	365.2	162482
660-69879-6	CZ 8.5 PW (10/16/2015)	Dissolved	Water	365.2	162482
LCS 660-162482/2-A	Lab Control Sample	Dissolved	Water	365.2	162482
MB 660-162482/1-A	Method Blank	Dissolved	Water	365.2	162482

Analysis Batch: 162484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69879-1	CZ 6.5 SW (10/16/2015)	Total/NA	Water	353.2	
660-69879-1 MS	CZ 6.5 SW (10/16/2015)	Total/NA	Water	353.2	
660-69879-1 MSD	CZ 6.5 SW (10/16/2015)	Total/NA	Water	353.2	
660-69879-2	CZ 6.5 PW (10/16/2015)	Total/NA	Water	353.2	
660-69879-3	CZ 7.5 SW (10/16/2015)	Total/NA	Water	353.2	
660-69879-4	CZ 7.5 PW (10/16/2015)	Total/NA	Water	353.2	
660-69879-5	CZ 8.5 SW (10/16/2015)	Total/NA	Water	353.2	
660-69879-6	CZ 8.5 PW (10/16/2015)	Total/NA	Water	353.2	
LCS 660-162484/10	Lab Control Sample	Total/NA	Water	353.2	
LCS 660-162484/11	Lab Control Sample	Total/NA	Water	353.2	
MB 660-162484/7	Method Blank	Total/NA	Water	353.2	
MB 660-162484/8	Method Blank	Total/NA	Water	353.2	

Filtration Batch: 162524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-1	HM 10.5 SW (10/19/2015)	Dissolved	Water	FILTRATION	
660-69893-1 MS	HM 10.5 SW (10/19/2015)	Dissolved	Water	FILTRATION	
660-69893-1 MSD	HM 10.5 SW (10/19/2015)	Dissolved	Water	FILTRATION	
660-69893-2	HM 10.5 PW (10/19/2015)	Dissolved	Water	FILTRATION	
660-69893-3	HM 9.5 SW (10/19/2015)	Dissolved	Water	FILTRATION	
660-69893-4	HM 9.5 PW (10/19/2015)	Dissolved	Water	FILTRATION	
LCS 660-162524/2-A	Lab Control Sample	Dissolved	Water	FILTRATION	
MB 660-162524/1-A	Method Blank	Dissolved	Water	FILTRATION	

Analysis Batch: 162525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-1	HM 10.5 SW (10/19/2015)	Dissolved	Water	365.2	162524
660-69893-1 MS	HM 10.5 SW (10/19/2015)	Dissolved	Water	365.2	162524
660-69893-1 MSD	HM 10.5 SW (10/19/2015)	Dissolved	Water	365.2	162524
660-69893-2	HM 10.5 PW (10/19/2015)	Dissolved	Water	365.2	162524
660-69893-3	HM 9.5 SW (10/19/2015)	Dissolved	Water	365.2	162524
660-69893-4	HM 9.5 PW (10/19/2015)	Dissolved	Water	365.2	162524
LCS 660-162524/2-A	Lab Control Sample	Dissolved	Water	365.2	162524
MB 660-162524/1-A	Method Blank	Dissolved	Water	365.2	162524

Analysis Batch: 162542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-1	HM8.5 SW (10/20/2015)	Total/NA	Water	353.2	
660-69919-2	HM8.5 PW (10/20/2015)	Total/NA	Water	353.2	
660-69919-3	HM7.5 SW (10/20/2015)	Total/NA	Water	353.2	
660-69919-4	HM7.5 PW (10/20/2015)	Total/NA	Water	353.2	
660-69919-5	HM6.5 SW (10-20-2015)	Total/NA	Water	353.2	
660-69919-6	HM6.5 PW (10-20-2015)	Total/NA	Water	353.2	
660-69919-7	HM5.5 SW (10-20-2015)	Total/NA	Water	353.2	

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 162542 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-8	HM5.5 PW (10-20-2015)	Total/NA	Water	353.2	
660-69919-9	HM4.5 SW(10/20/2015)	Total/NA	Water	353.2	
660-69919-10	HM4.5 PW (10-20-2015)	Total/NA	Water	353.2	
660-69919-10 MS	HM4.5 PW (10-20-2015)	Total/NA	Water	353.2	
660-69919-10 MSD	HM4.5 PW (10-20-2015)	Total/NA	Water	353.2	
660-69919-11	HM3.5 SW (10-20-2015)	Total/NA	Water	353.2	
660-69919-12	HM3.5 PW (10/20/2015)	Total/NA	Water	353.2	
LCS 660-162542/10	Lab Control Sample	Total/NA	Water	353.2	
LCS 660-162542/11	Lab Control Sample	Total/NA	Water	353.2	
MB 660-162542/7	Method Blank	Total/NA	Water	353.2	
MB 660-162542/8	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 162589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-12	HM 2.5 SW (10/21/2015)	Total/NA	Water	353.2	
660-69974-13	HM 2.5 PW (10/21/2015)	Total/NA	Water	353.2	
LCS 660-162589/10	Lab Control Sample	Total/NA	Water	353.2	
LCS 660-162589/11	Lab Control Sample	Total/NA	Water	353.2	
MB 660-162589/7	Method Blank	Total/NA	Water	353.2	
MB 660-162589/8	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 162592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-1	HM8.5 SW (10/20/2015)	Dissolved	Water	365.2	162649
660-69919-2	HM8.5 PW (10/20/2015)	Dissolved	Water	365.2	162649
660-69919-3	HM7.5 SW (10/20/2015)	Dissolved	Water	365.2	162649
660-69919-4	HM7.5 PW (10/20/2015)	Dissolved	Water	365.2	162649
660-69919-5	HM6.5 SW (10-20-2015)	Dissolved	Water	365.2	162649
660-69919-6	HM6.5 PW (10-20-2015)	Dissolved	Water	365.2	162649
660-69919-7	HM5.5 SW (10-20-2015)	Dissolved	Water	365.2	162649
660-69919-8	HM5.5 PW (10-20-2015)	Dissolved	Water	365.2	162649
660-69919-8 MS	HM5.5 PW (10-20-2015)	Dissolved	Water	365.2	162649
660-69919-8 MSD	HM5.5 PW (10-20-2015)	Dissolved	Water	365.2	162649
660-69919-9	HM4.5 SW(10/20/2015)	Dissolved	Water	365.2	162649
660-69919-10	HM4.5 PW (10-20-2015)	Dissolved	Water	365.2	162649
660-69919-11	HM3.5 SW (10-20-2015)	Dissolved	Water	365.2	162649
660-69919-12	HM3.5 PW (10/20/2015)	Dissolved	Water	365.2	162649
LCS 660-162649/2-A	Lab Control Sample	Dissolved	Water	365.2	162649
MB 660-162649/1-A	Method Blank	Dissolved	Water	365.2	162649

Analysis Batch: 162613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-1	HM 10.5 SW (10/19/2015)	Total/NA	Water	353.2	
660-69893-2	HM 10.5 PW (10/19/2015)	Total/NA	Water	353.2	
660-69893-3	HM 9.5 SW (10/19/2015)	Total/NA	Water	353.2	
660-69893-4	HM 9.5 PW (10/19/2015)	Total/NA	Water	353.2	
LCS 660-162613/9	Lab Control Sample	Total/NA	Water	353.2	
MB 660-162613/7	Method Blank	Total/NA	Water	353.2	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Filtration Batch: 162649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-1	HM8.5 SW (10/20/2015)	Dissolved	Water	FILTRATION	
660-69919-2	HM8.5 PW (10/20/2015)	Dissolved	Water	FILTRATION	
660-69919-3	HM7.5 SW (10/20/2015)	Dissolved	Water	FILTRATION	
660-69919-4	HM7.5 PW (10/20/2015)	Dissolved	Water	FILTRATION	
660-69919-5	HM6.5 SW (10-20-2015)	Dissolved	Water	FILTRATION	
660-69919-6	HM6.5 PW (10-20-2015)	Dissolved	Water	FILTRATION	
660-69919-7	HM5.5 SW (10-20-2015)	Dissolved	Water	FILTRATION	
660-69919-8	HM5.5 PW (10-20-2015)	Dissolved	Water	FILTRATION	
660-69919-8 MS	HM5.5 PW (10-20-2015)	Dissolved	Water	FILTRATION	
660-69919-8 MSD	HM5.5 PW (10-20-2015)	Dissolved	Water	FILTRATION	
660-69919-9	HM4.5 SW(10/20/2015)	Dissolved	Water	FILTRATION	
660-69919-10	HM4.5 PW (10-20-2015)	Dissolved	Water	FILTRATION	
660-69919-11	HM3.5 SW (10-20-2015)	Dissolved	Water	FILTRATION	
660-69919-12	HM3.5 PW (10/20/2015)	Dissolved	Water	FILTRATION	
LCS 660-162649/2-A	Lab Control Sample	Dissolved	Water	FILTRATION	
MB 660-162649/1-A	Method Blank	Dissolved	Water	FILTRATION	

Analysis Batch: 162652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70002-1	HM1.5 SW(10/22/2015)	Total/NA	Water	353.2	
660-70002-2	HM1.5 PW(10/22/2015)	Total/NA	Water	353.2	
660-70002-3	WW8.5SW(10/22/2015)	Total/NA	Water	353.2	
660-70002-4	WW8.5PW(10/22/2015)	Total/NA	Water	353.2	
660-70002-4 MS	WW8.5PW(10/22/2015)	Total/NA	Water	353.2	
660-70002-4 MSD	WW8.5PW(10/22/2015)	Total/NA	Water	353.2	
LCS 660-162652/11	Lab Control Sample	Total/NA	Water	353.2	
MB 660-162652/8	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 162662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70026-1	WW7.5SW(10/23/2015)	Total/NA	Water	353.2	
660-70026-1 MS	WW7.5SW(10/23/2015)	Total/NA	Water	353.2	
660-70026-1 MSD	WW7.5SW(10/23/2015)	Total/NA	Water	353.2	
660-70026-2	WW7.5 PW(10/23/2015)	Total/NA	Water	353.2	
660-70026-3	WW6.5SW(10/23/2015)	Total/NA	Water	353.2	
660-70026-4	WW6.5PW(10/23/2015)	Total/NA	Water	353.2	
LCS 660-162662/9	Lab Control Sample	Total/NA	Water	353.2	
MB 660-162662/7	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 162750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-7	WW5.5 SW (10/26/2015)	Total/NA	Water	353.2	
660-70053-8	WW5.5 PW (10/26/2015)	Total/NA	Water	353.2	
660-70053-9	WW5.25 SW (10/26/2015)	Total/NA	Water	353.2	
660-70053-10	WW5.25 PW (10/26/2015)	Total/NA	Water	353.2	
660-70053-10 MS	WW5.25 PW (10/26/2015)	Total/NA	Water	353.2	
660-70053-10 MSD	WW5.25 PW (10/26/2015)	Total/NA	Water	353.2	
660-70053-11	WW4.5 SW (10/26/2015)	Total/NA	Water	353.2	
660-70053-12	WW4.5 PW (10/26/2015)	Total/NA	Water	353.2	
660-70053-13	WW3.5 SW (10/26/2015)	Total/NA	Water	353.2	
660-70053-14	WW3.5 PW (10/26/2015)	Total/NA	Water	353.2	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 162750 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 660-162750/11	Lab Control Sample	Total/NA	Water	353.2	
MB 660-162750/8	Method Blank	Total/NA	Water	353.2	

Filtration Batch: 162753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-7	WW5.5 SW (10/26/2015)	Dissolved	Water	FILTRATION	
660-70053-7 MS	WW5.5 SW (10/26/2015)	Dissolved	Water	FILTRATION	
660-70053-7 MSD	WW5.5 SW (10/26/2015)	Dissolved	Water	FILTRATION	
660-70053-8	WW5.5 PW (10/26/2015)	Dissolved	Water	FILTRATION	
660-70053-9	WW5.25 SW (10/26/2015)	Dissolved	Water	FILTRATION	
660-70053-10	WW5.25 PW (10/26/2015)	Dissolved	Water	FILTRATION	
660-70053-11	WW4.5 SW (10/26/2015)	Dissolved	Water	FILTRATION	
660-70053-12	WW4.5 PW (10/26/2015)	Dissolved	Water	FILTRATION	
660-70053-13	WW3.5 SW (10/26/2015)	Dissolved	Water	FILTRATION	
660-70053-14	WW3.5 PW (10/26/2015)	Dissolved	Water	FILTRATION	
LCS 660-162753/2-A	Lab Control Sample	Dissolved	Water	FILTRATION	
MB 660-162753/1-A	Method Blank	Dissolved	Water	FILTRATION	

Analysis Batch: 162754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-7	WW5.5 SW (10/26/2015)	Dissolved	Water	365.2	162753
660-70053-7 MS	WW5.5 SW (10/26/2015)	Dissolved	Water	365.2	162753
660-70053-7 MSD	WW5.5 SW (10/26/2015)	Dissolved	Water	365.2	162753
660-70053-8	WW5.5 PW (10/26/2015)	Dissolved	Water	365.2	162753
660-70053-9	WW5.25 SW (10/26/2015)	Dissolved	Water	365.2	162753
660-70053-10	WW5.25 PW (10/26/2015)	Dissolved	Water	365.2	162753
660-70053-11	WW4.5 SW (10/26/2015)	Dissolved	Water	365.2	162753
660-70053-12	WW4.5 PW (10/26/2015)	Dissolved	Water	365.2	162753
660-70053-13	WW3.5 SW (10/26/2015)	Dissolved	Water	365.2	162753
660-70053-14	WW3.5 PW (10/26/2015)	Dissolved	Water	365.2	162753
LCS 660-162753/2-A	Lab Control Sample	Dissolved	Water	365.2	162753
MB 660-162753/1-A	Method Blank	Dissolved	Water	365.2	162753

Filtration Batch: 162782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-12	HM 2.5 SW (10/21/2015)	Dissolved	Water	FILTRATION	
660-69974-13	HM 2.5 PW (10/21/2015)	Dissolved	Water	FILTRATION	
660-70002-1	HM1.5 SW(10/22/2015)	Dissolved	Water	FILTRATION	
660-70002-2	HM1.5 PW(10/22/2015)	Dissolved	Water	FILTRATION	
660-70002-3	WW8.5SW(10/22/2015)	Dissolved	Water	FILTRATION	
660-70002-3 MS	WW8.5SW(10/22/2015)	Dissolved	Water	FILTRATION	
660-70002-3 MSD	WW8.5SW(10/22/2015)	Dissolved	Water	FILTRATION	
660-70002-4	WW8.5PW(10/22/2015)	Dissolved	Water	FILTRATION	
LCS 660-162782/2-A	Lab Control Sample	Dissolved	Water	FILTRATION	
MB 660-162782/1-A	Method Blank	Dissolved	Water	FILTRATION	

Analysis Batch: 162783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-12	HM 2.5 SW (10/21/2015)	Dissolved	Water	365.2	162782
660-69974-13	HM 2.5 PW (10/21/2015)	Dissolved	Water	365.2	162782
660-70002-1	HM1.5 SW(10/22/2015)	Dissolved	Water	365.2	162782

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 162783 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70002-2	HM1.5 PW(10/22/2015)	Dissolved	Water	365.2	162782
660-70002-3	WW8.5SW(10/22/2015)	Dissolved	Water	365.2	162782
660-70002-3 MS	WW8.5SW(10/22/2015)	Dissolved	Water	365.2	162782
660-70002-3 MSD	WW8.5SW(10/22/2015)	Dissolved	Water	365.2	162782
660-70002-4	WW8.5PW(10/22/2015)	Dissolved	Water	365.2	162782
LCS 660-162782/2-A	Lab Control Sample	Dissolved	Water	365.2	162782
MB 660-162782/1-A	Method Blank	Dissolved	Water	365.2	162782

Filtration Batch: 162789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70026-1	WW7.5SW(10/23/2015)	Dissolved	Water	FILTRATION	
660-70026-1 MS	WW7.5SW(10/23/2015)	Dissolved	Water	FILTRATION	
660-70026-1 MSD	WW7.5SW(10/23/2015)	Dissolved	Water	FILTRATION	
660-70026-2	WW7.5 PW(10/23/2015)	Dissolved	Water	FILTRATION	
660-70026-3	WW6.5SW(10/23/2015)	Dissolved	Water	FILTRATION	
660-70026-4	WW6.5PW(10/23/2015)	Dissolved	Water	FILTRATION	
LCS 660-162789/2-A	Lab Control Sample	Dissolved	Water	FILTRATION	
MB 660-162789/1-A	Method Blank	Dissolved	Water	FILTRATION	

Analysis Batch: 162791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70026-1	WW7.5SW(10/23/2015)	Dissolved	Water	365.2	162789
660-70026-1 MS	WW7.5SW(10/23/2015)	Dissolved	Water	365.2	162789
660-70026-1 MSD	WW7.5SW(10/23/2015)	Dissolved	Water	365.2	162789
660-70026-2	WW7.5 PW(10/23/2015)	Dissolved	Water	365.2	162789
660-70026-3	WW6.5SW(10/23/2015)	Dissolved	Water	365.2	162789
660-70026-4	WW6.5PW(10/23/2015)	Dissolved	Water	365.2	162789
LCS 660-162789/2-A	Lab Control Sample	Dissolved	Water	365.2	162789
MB 660-162789/1-A	Method Blank	Dissolved	Water	365.2	162789

Filtration Batch: 162868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-1	WW2.5 SW (10/27/2015)	Dissolved	Water	FILTRATION	
660-70082-1 MS	WW2.5 SW (10/27/2015)	Dissolved	Water	FILTRATION	
660-70082-1 MSD	WW2.5 SW (10/27/2015)	Dissolved	Water	FILTRATION	
660-70082-2	WW2.5 PW (10/27/2015)	Dissolved	Water	FILTRATION	
660-70082-3	WW1.5 SW (10/27/2015)	Dissolved	Water	FILTRATION	
660-70082-4	WW1.5 PW (10/27/2015)	Dissolved	Water	FILTRATION	
LCS 660-162868/2-A	Lab Control Sample	Dissolved	Water	FILTRATION	
MB 660-162868/1-A	Method Blank	Dissolved	Water	FILTRATION	

Analysis Batch: 162869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-1	WW2.5 SW (10/27/2015)	Dissolved	Water	365.2	162868
660-70082-1 MS	WW2.5 SW (10/27/2015)	Dissolved	Water	365.2	162868
660-70082-1 MSD	WW2.5 SW (10/27/2015)	Dissolved	Water	365.2	162868
660-70082-2	WW2.5 PW (10/27/2015)	Dissolved	Water	365.2	162868
660-70082-3	WW1.5 SW (10/27/2015)	Dissolved	Water	365.2	162868
660-70082-4	WW1.5 PW (10/27/2015)	Dissolved	Water	365.2	162868
LCS 660-162868/2-A	Lab Control Sample	Dissolved	Water	365.2	162868
MB 660-162868/1-A	Method Blank	Dissolved	Water	365.2	162868

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Analysis Batch: 162902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-1	WW2.5 SW (10/27/2015)	Total/NA	Water	353.2	
660-70082-1 MS	WW2.5 SW (10/27/2015)	Total/NA	Water	353.2	
660-70082-1 MSD	WW2.5 SW (10/27/2015)	Total/NA	Water	353.2	
660-70082-2	WW2.5 PW (10/27/2015)	Total/NA	Water	353.2	
660-70082-3	WW1.5 SW (10/27/2015)	Total/NA	Water	353.2	
660-70082-4	WW1.5 PW (10/27/2015)	Total/NA	Water	353.2	
LCS 660-162902/11	Lab Control Sample	Total/NA	Water	353.2	
MB 660-162902/8	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 163041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-2	CZ 0.5 SW (10/14/2015)	Total/NA	Water	Nitrate by calc	
660-69823-3	CZ 0.5 PW (10/14/2015)	Total/NA	Water	Nitrate by calc	
660-69823-6	CZ 1.5 SW (10/14/2015)	Total/NA	Water	Nitrate by calc	
660-69823-7	CZ 1.5 PW (10/14/2015)	Total/NA	Water	Nitrate by calc	
660-69823-10	CZ 2.5 SW (10/14/2015)	Total/NA	Water	Nitrate by calc	
660-69823-11	CZ 2.5 PW (10/14/2015)	Total/NA	Water	Nitrate by calc	
660-69852-1	CZ 3.5 SW (10/15/2015)	Total/NA	Water	Nitrate by calc	
660-69852-2	CZ 3.5 PW (10/15/2015)	Total/NA	Water	Nitrate by calc	
660-69852-3	CZ 4.5 SW (10/15/2015)	Total/NA	Water	Nitrate by calc	
660-69852-4	CZ 4.5 PW (10/15/2015)	Total/NA	Water	Nitrate by calc	
660-69852-5	CZ 5.5 SW (10/15/2015)	Total/NA	Water	Nitrate by calc	
660-69852-6	CZ 5.5 PW (10/15/2015)	Total/NA	Water	Nitrate by calc	
660-69879-1	CZ 6.5 SW (10/16/2015)	Total/NA	Water	Nitrate by calc	
660-69879-2	CZ 6.5 PW (10/16/2015)	Total/NA	Water	Nitrate by calc	
660-69879-3	CZ 7.5 SW (10/16/2015)	Total/NA	Water	Nitrate by calc	
660-69879-4	CZ 7.5 PW (10/16/2015)	Total/NA	Water	Nitrate by calc	
660-69879-5	CZ 8.5 SW (10/16/2015)	Total/NA	Water	Nitrate by calc	
660-69879-6	CZ 8.5 PW (10/16/2015)	Total/NA	Water	Nitrate by calc	
660-69893-1	HM 10.5 SW (10/19/2015)	Total/NA	Water	Nitrate by calc	
660-69893-2	HM 10.5 PW (10/19/2015)	Total/NA	Water	Nitrate by calc	
660-69893-3	HM 9.5 SW (10/19/2015)	Total/NA	Water	Nitrate by calc	
660-69893-4	HM 9.5 PW (10/19/2015)	Total/NA	Water	Nitrate by calc	
660-69919-1	HM8.5 SW (10/20/2015)	Total/NA	Water	Nitrate by calc	
660-69919-2	HM8.5 PW (10/20/2015)	Total/NA	Water	Nitrate by calc	
660-69919-3	HM7.5 SW (10/20/2015)	Total/NA	Water	Nitrate by calc	
660-69919-4	HM7.5 PW (10/20/2015)	Total/NA	Water	Nitrate by calc	
660-69919-5	HM6.5 SW (10-20-2015)	Total/NA	Water	Nitrate by calc	
660-69919-6	HM6.5 PW (10-20-2015)	Total/NA	Water	Nitrate by calc	
660-69919-7	HM5.5 SW (10-20-2015)	Total/NA	Water	Nitrate by calc	
660-69919-8	HM5.5 PW (10-20-2015)	Total/NA	Water	Nitrate by calc	
660-69919-9	HM4.5 SW(10/20/2015)	Total/NA	Water	Nitrate by calc	
660-69919-10	HM4.5 PW (10-20-2015)	Total/NA	Water	Nitrate by calc	
660-69919-11	HM3.5 SW (10-20-2015)	Total/NA	Water	Nitrate by calc	
660-69919-12	HM3.5 PW (10/20/2015)	Total/NA	Water	Nitrate by calc	
660-69974-12	HM 2.5 SW (10/21/2015)	Total/NA	Water	Nitrate by calc	
660-69974-13	HM 2.5 PW (10/21/2015)	Total/NA	Water	Nitrate by calc	
660-70002-1	HM1.5 SW(10/22/2015)	Total/NA	Water	Nitrate by calc	
660-70002-2	HM1.5 PW(10/22/2015)	Total/NA	Water	Nitrate by calc	
660-70002-3	WW8.5SW(10/22/2015)	Total/NA	Water	Nitrate by calc	
660-70002-4	WW8.5PW(10/22/2015)	Total/NA	Water	Nitrate by calc	
660-70026-1	WW7.5SW(10/23/2015)	Total/NA	Water	Nitrate by calc	
660-70026-2	WW7.5 PW(10/23/2015)	Total/NA	Water	Nitrate by calc	

TestAmerica Tampa



QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 163041 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70026-3	WW6.5SW(10/23/2015)	Total/NA	Water	Nitrate by calc	
660-70026-4	WW6.5PW(10/23/2015)	Total/NA	Water	Nitrate by calc	
660-70053-7	WW5.5 SW (10/26/2015)	Total/NA	Water	Nitrate by calc	
660-70053-8	WW5.5 PW (10/26/2015)	Total/NA	Water	Nitrate by calc	
660-70053-9	WW5.25 SW (10/26/2015)	Total/NA	Water	Nitrate by calc	
660-70053-10	WW5.25 PW (10/26/2015)	Total/NA	Water	Nitrate by calc	
660-70053-11	WW4.5 SW (10/26/2015)	Total/NA	Water	Nitrate by calc	
660-70053-12	WW4.5 PW (10/26/2015)	Total/NA	Water	Nitrate by calc	
660-70053-13	WW3.5 SW (10/26/2015)	Total/NA	Water	Nitrate by calc	
660-70053-14	WW3.5 PW (10/26/2015)	Total/NA	Water	Nitrate by calc	

Analysis Batch: 163107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-1	WW2.5 SW (10/27/2015)	Total/NA	Water	Nitrate by calc	
660-70082-2	WW2.5 PW (10/27/2015)	Total/NA	Water	Nitrate by calc	
660-70082-3	WW1.5 SW (10/27/2015)	Total/NA	Water	Nitrate by calc	
660-70082-4	WW1.5 PW (10/27/2015)	Total/NA	Water	Nitrate by calc	

Leach Batch: 269799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-3	CZ 10 SED (08/12/2015)	Soluble	Solid	DI Leach	
660-68566-3 MS	CZ 10 SED (08/12/2015)	Soluble	Solid	DI Leach	
660-68566-3 MSD	CZ 10 SED (08/12/2015)	Soluble	Solid	DI Leach	
LCS 400-269799/7-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-269799/6-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 269845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-3	CZ 10 SED (08/12/2015)	Soluble	Solid	365.1	269799
660-68566-3 MS	CZ 10 SED (08/12/2015)	Soluble	Solid	365.1	269799
660-68566-3 MSD	CZ 10 SED (08/12/2015)	Soluble	Solid	365.1	269799
LCS 400-269799/7-A	Lab Control Sample	Soluble	Solid	365.1	269799
MB 400-269799/6-A	Method Blank	Soluble	Solid	365.1	269799

Analysis Batch: 269870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-1	CZ 10 SW (08/12/2015)	Total/NA	Water	SM3500_FE_D	
660-68566-1 MS	CZ 10 SW (08/12/2015)	Total/NA	Water	SM3500_FE_D	
660-68566-1 MSD	CZ 10 SW (08/12/2015)	Total/NA	Water	SM3500_FE_D	
660-68566-2	CZ 10 PW (08/12/2015)	Total/NA	Water	SM3500_FE_D	
660-68566-2 DU	CZ 10 PW (08/12/2015)	Total/NA	Water	SM3500_FE_D	
LCS 400-269870/8	Lab Control Sample	Total/NA	Water	SM3500_FE_D	
MB 400-269870/7	Method Blank	Total/NA	Water	SM3500_FE_D	

Leach Batch: 269916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68601-3	WW 10 SED (08/13/2015)	Soluble	Solid	DI Leach	
660-68601-3 MS	WW 10 SED (08/13/2015)	Soluble	Solid	DI Leach	
660-68601-3 MSD	WW 10 SED (08/13/2015)	Soluble	Solid	DI Leach	
LCS 400-269916/7-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-269916/6-A	Method Blank	Soluble	Solid	DI Leach	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Analysis Batch: 269966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68601-3	WW 10 SED (08/13/2015)	Soluble	Solid	365.1	269916
660-68601-3 MS	WW 10 SED (08/13/2015)	Soluble	Solid	365.1	269916
660-68601-3 MSD	WW 10 SED (08/13/2015)	Soluble	Solid	365.1	269916
LCS 400-269916/7-A	Lab Control Sample	Soluble	Solid	365.1	269916
MB 400-269916/6-A	Method Blank	Soluble	Solid	365.1	269916

Leach Batch: 270080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-3	CZ 10 SED (08/12/2015)	Soluble	Solid	DI Leach	
660-68601-3	WW 10 SED (08/13/2015)	Soluble	Solid	DI Leach	
LCS 400-270080/4-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-270080/3-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 270126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-3	CZ 10 SED (08/12/2015)	Soluble	Solid	353.2	270080
660-68601-3	WW 10 SED (08/13/2015)	Soluble	Solid	353.2	270080
LCS 400-270080/4-A	Lab Control Sample	Soluble	Solid	353.2	270080
MB 400-270080/3-A	Method Blank	Soluble	Solid	353.2	270080
MRL 400-270126/13	Lab Control Sample	Total/NA	Solid	353.2	

Analysis Batch: 270133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-3	CZ 10 SED (08/12/2015)	Soluble	Solid	Nitrate by calc	
660-68601-3	WW 10 SED (08/13/2015)	Soluble	Solid	Nitrate by calc	

Analysis Batch: 270151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68601-1	WW 10 SW (08/13/2015)	Total/NA	Water	SM3500_FE_D	
660-68601-1 MS	WW 10 SW (08/13/2015)	Total/NA	Water	SM3500_FE_D	
660-68601-1 MSD	WW 10 SW (08/13/2015)	Total/NA	Water	SM3500_FE_D	
660-68601-2	WW 10 PW (08/13/2015)	Total/NA	Water	SM3500_FE_D	
660-68601-2 DU	WW 10 PW (08/13/2015)	Total/NA	Water	SM3500_FE_D	
LCS 400-270151/8	Lab Control Sample	Total/NA	Water	SM3500_FE_D	
MB 400-270151/7	Method Blank	Total/NA	Water	SM3500_FE_D	

Leach Batch: 271996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-3	CZ 10 SED (08/12/2015)	Soluble	Solid	DI Leach	
660-68601-3	WW 10 SED (08/13/2015)	Soluble	Solid	DI Leach	
LCS 400-271996/7-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-271996/6-A	Method Blank	Soluble	Solid	DI Leach	
MRL 400-271996/3-A	Lab Control Sample	Soluble	Solid	DI Leach	

Analysis Batch: 272036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-3	CZ 10 SED (08/12/2015)	Soluble	Solid	354.1	271996
660-68601-3	WW 10 SED (08/13/2015)	Soluble	Solid	354.1	271996
LCS 400-271996/7-A	Lab Control Sample	Soluble	Solid	354.1	271996
MB 400-271996/6-A	Method Blank	Soluble	Solid	354.1	271996
MRL 400-271996/3-A	Lab Control Sample	Soluble	Solid	354.1	271996

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 272251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-1	CZ 10 SW (08/12/2015)	Total/NA	Water	350.1	
660-68566-2	CZ 10 PW (08/12/2015)	Total/NA	Water	350.1	
660-68601-1	WW 10 SW (08/13/2015)	Total/NA	Water	350.1	
660-68601-2	WW 10 PW (08/13/2015)	Total/NA	Water	350.1	
LCS 400-272251/9	Lab Control Sample	Total/NA	Water	350.1	
MB 400-272251/8	Method Blank	Total/NA	Water	350.1	
MRL 400-272251/3	Lab Control Sample	Total/NA	Water	350.1	

Prep Batch: 272357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-1	CZ 10 SW (08/12/2015)	Total/NA	Water	351.2	
660-68566-2	CZ 10 PW (08/12/2015)	Total/NA	Water	351.2	
660-68601-1	WW 10 SW (08/13/2015)	Total/NA	Water	351.2	
660-68601-2	WW 10 PW (08/13/2015)	Total/NA	Water	351.2	
LCS 400-272357/2-A	Lab Control Sample	Total/NA	Water	351.2	
MB 400-272357/1-A	Method Blank	Total/NA	Water	351.2	

Prep Batch: 272361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-3	CZ 10 SED (08/12/2015)	Total/NA	Solid	365.2/365.3/365	
660-68566-3 MS	CZ 10 SED (08/12/2015)	Total/NA	Solid	365.2/365.3/365	
660-68566-3 MSD	CZ 10 SED (08/12/2015)	Total/NA	Solid	365.2/365.3/365	
660-68601-3	WW 10 SED (08/13/2015)	Total/NA	Solid	365.2/365.3/365	
LCS 400-272361/2-A	Lab Control Sample	Total/NA	Solid	365.2/365.3/365	
MB 400-272361/1-A	Method Blank	Total/NA	Solid	365.2/365.3/365	

Prep Batch: 272362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-3	CZ 10 SED (08/12/2015)	Total/NA	Solid	351.2	
660-68566-3 MS	CZ 10 SED (08/12/2015)	Total/NA	Solid	351.2	
660-68566-3 MSD	CZ 10 SED (08/12/2015)	Total/NA	Solid	351.2	
660-68601-3	WW 10 SED (08/13/2015)	Total/NA	Solid	351.2	
LCS 400-272362/2-A	Lab Control Sample	Total/NA	Solid	351.2	
MB 400-272362/1-A	Method Blank	Total/NA	Solid	351.2	

Leach Batch: 272377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-3	CZ 10 SED (08/12/2015)	Soluble	Solid	DI Leach	
660-68566-3 MS	CZ 10 SED (08/12/2015)	Soluble	Solid	DI Leach	
660-68566-3 MSD	CZ 10 SED (08/12/2015)	Soluble	Solid	DI Leach	
660-68601-3	WW 10 SED (08/13/2015)	Soluble	Solid	DI Leach	
LCS 400-272377/5-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-272377/4-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 272447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-3	CZ 10 SED (08/12/2015)	Soluble	Solid	350.1	272377
660-68566-3 MS	CZ 10 SED (08/12/2015)	Soluble	Solid	350.1	272377
660-68566-3 MSD	CZ 10 SED (08/12/2015)	Soluble	Solid	350.1	272377
660-68601-3	WW 10 SED (08/13/2015)	Soluble	Solid	350.1	272377
LCS 400-272377/5-A	Lab Control Sample	Soluble	Solid	350.1	272377

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 272447 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-272377/4-A	Method Blank	Soluble	Solid	350.1	272377
MRL 400-272447/3	Lab Control Sample	Total/NA	Solid	350.1	

Analysis Batch: 272631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-3	CZ 10 SED (08/12/2015)	Total/NA	Solid	365.4	272361
660-68566-3 MS	CZ 10 SED (08/12/2015)	Total/NA	Solid	365.4	272361
660-68566-3 MSD	CZ 10 SED (08/12/2015)	Total/NA	Solid	365.4	272361
660-68601-3	WW 10 SED (08/13/2015)	Total/NA	Solid	365.4	272361
LCS 400-272361/2-A	Lab Control Sample	Total/NA	Solid	365.4	272361
MB 400-272361/1-A	Method Blank	Total/NA	Solid	365.4	272361
MRL 400-272631/5	Lab Control Sample	Total/NA	Solid	365.4	

Analysis Batch: 272637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-1	CZ 10 SW (08/12/2015)	Total/NA	Water	353.2	
660-68566-2	CZ 10 PW (08/12/2015)	Total/NA	Water	353.2	
660-68601-1	WW 10 SW (08/13/2015)	Total/NA	Water	353.2	
660-68601-2	WW 10 PW (08/13/2015)	Total/NA	Water	353.2	
LCS 400-272637/9	Lab Control Sample	Total/NA	Water	353.2	
MB 400-272637/8	Method Blank	Total/NA	Water	353.2	
MRL 400-272637/6	Lab Control Sample	Total/NA	Water	353.2	

Leach Batch: 272675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-3	CZ 10 SED (08/12/2015)	Soluble	Solid	DI Leach	
660-68601-3	WW 10 SED (08/13/2015)	Soluble	Solid	DI Leach	
660-68601-3 MS	WW 10 SED (08/13/2015)	Soluble	Solid	DI Leach	
660-68601-3 MSD	WW 10 SED (08/13/2015)	Soluble	Solid	DI Leach	
LCS 400-272675/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-272675/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 272680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-1	CZ 10 SW (08/12/2015)	Total/NA	Water	351.2	272357
660-68566-2	CZ 10 PW (08/12/2015)	Total/NA	Water	351.2	272357
660-68601-1	WW 10 SW (08/13/2015)	Total/NA	Water	351.2	272357
660-68601-2	WW 10 PW (08/13/2015)	Total/NA	Water	351.2	272357
LCS 400-272357/2-A	Lab Control Sample	Total/NA	Water	351.2	272357
MB 400-272357/1-A	Method Blank	Total/NA	Water	351.2	272357
MRL 400-272680/11	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 272696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-3	CZ 10 SED (08/12/2015)	Total/NA	Solid	351.2	272362
660-68566-3 MS	CZ 10 SED (08/12/2015)	Total/NA	Solid	351.2	272362
660-68566-3 MSD	CZ 10 SED (08/12/2015)	Total/NA	Solid	351.2	272362
660-68601-3	WW 10 SED (08/13/2015)	Total/NA	Solid	351.2	272362
LCS 400-272362/2-A	Lab Control Sample	Total/NA	Solid	351.2	272362
MB 400-272362/1-A	Method Blank	Total/NA	Solid	351.2	272362
MRL 400-272696/11	Lab Control Sample	Total/NA	Solid	351.2	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Analysis Batch: 272721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-1	CZ 10 SW (08/12/2015)	Total/NA	Water	SM 4500 SO4 E	
660-68566-2	CZ 10 PW (08/12/2015)	Total/NA	Water	SM 4500 SO4 E	
660-68566-3	CZ 10 SED (08/12/2015)	Soluble	Solid	9038	272675
660-68601-1	WW 10 SW (08/13/2015)	Total/NA	Water	SM 4500 SO4 E	
660-68601-1 MS	WW 10 SW (08/13/2015)	Total/NA	Water	SM 4500 SO4 E	
660-68601-1 MSD	WW 10 SW (08/13/2015)	Total/NA	Water	SM 4500 SO4 E	
660-68601-2	WW 10 PW (08/13/2015)	Total/NA	Water	SM 4500 SO4 E	
660-68601-3	WW 10 SED (08/13/2015)	Soluble	Solid	9038	272675
660-68601-3 MS	WW 10 SED (08/13/2015)	Soluble	Solid	9038	272675
660-68601-3 MSD	WW 10 SED (08/13/2015)	Soluble	Solid	9038	272675
LCS 400-272675/2-A	Lab Control Sample	Soluble	Solid	9038	272675
LCS 400-272721/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MB 400-272675/1-A	Method Blank	Soluble	Solid	9038	272675
MB 400-272721/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MRL 400-272721/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 272730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-1	CZ 10 SW (08/12/2015)	Total/NA	Water	SM 4500 CI- E	
660-68566-2	CZ 10 PW (08/12/2015)	Total/NA	Water	SM 4500 CI- E	
660-68566-3	CZ 10 SED (08/12/2015)	Soluble	Solid	9251	272675
660-68601-1	WW 10 SW (08/13/2015)	Total/NA	Water	SM 4500 CI- E	
660-68601-1 MS	WW 10 SW (08/13/2015)	Total/NA	Water	SM 4500 CI- E	
660-68601-1 MSD	WW 10 SW (08/13/2015)	Total/NA	Water	SM 4500 CI- E	
660-68601-2	WW 10 PW (08/13/2015)	Total/NA	Water	SM 4500 CI- E	
660-68601-3	WW 10 SED (08/13/2015)	Soluble	Solid	9251	272675
660-68601-3 MS	WW 10 SED (08/13/2015)	Soluble	Solid	9251	272675
660-68601-3 MSD	WW 10 SED (08/13/2015)	Soluble	Solid	9251	272675
LCS 400-272675/2-A	Lab Control Sample	Soluble	Solid	9251	272675
LCS 400-272730/7	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
MB 400-272675/1-A	Method Blank	Soluble	Solid	9251	272675
MB 400-272730/6	Method Blank	Total/NA	Water	SM 4500 CI- E	
MRL 400-272730/3	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 272765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-1	CZ 10 SW (08/12/2015)	Total/NA	Water	Total Nitrogen	
660-68566-2	CZ 10 PW (08/12/2015)	Total/NA	Water	Total Nitrogen	
660-68566-3	CZ 10 SED (08/12/2015)	Total/NA	Solid	Total Nitrogen	
660-68601-1	WW 10 SW (08/13/2015)	Total/NA	Water	Total Nitrogen	
660-68601-2	WW 10 PW (08/13/2015)	Total/NA	Water	Total Nitrogen	
660-68601-3	WW 10 SED (08/13/2015)	Total/NA	Solid	Total Nitrogen	

Pre Prep Batch: 279167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-279167/2-B	Lab Control Sample	Total/NA	Solid	Wt_Wt	
MB 400-279167/1-B	Method Blank	Total/NA	Solid	Wt_Wt	

Prep Batch: 279168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-1	CZ 0.5 SED (10/14/2015)	Total/NA	Solid	351.2	
660-69823-4	CZ 1.0 SED (10/14/2015)	Total/NA	Solid	351.2	
660-69823-5	CZ 1.5 SED (10/14/2015)	Total/NA	Solid	351.2	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Prep Batch: 279168 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-8	CZ 2.0 SED (10/14/2015)	Total/NA	Solid	351.2	
660-69823-9	CZ 2.5 SED (10/14/2015)	Total/NA	Solid	351.2	
660-69852-7	CZ 3.0 SED (10/15/2015)	Total/NA	Solid	351.2	
660-69852-8	CZ 3.5 SED (10/15/2015)	Total/NA	Solid	351.2	
660-69852-9	CZ 4.0 SED (10/15/2015)	Total/NA	Solid	351.2	
660-69852-10	CZ 4.5 SED (10/15/2015)	Total/NA	Solid	351.2	
660-69852-11	CZ 5.0 SED (10/15/2015)	Total/NA	Solid	351.2	
660-69852-12	CZ 5.5 SED (10/15/2015)	Total/NA	Solid	351.2	
660-69852-13	CZ 6.0 SED (10/15/2015)	Total/NA	Solid	351.2	
LCS 400-279167/2-B	Lab Control Sample	Total/NA	Solid	351.2	279167
MB 400-279167/1-B	Method Blank	Total/NA	Solid	351.2	279167

Prep Batch: 279169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-1	CZ 0.5 SED (10/14/2015)	Total/NA	Solid	365.2/365.3/365	
660-69823-4	CZ 1.0 SED (10/14/2015)	Total/NA	Solid	365.2/365.3/365	
660-69823-5	CZ 1.5 SED (10/14/2015)	Total/NA	Solid	365.2/365.3/365	
660-69823-8	CZ 2.0 SED (10/14/2015)	Total/NA	Solid	365.2/365.3/365	
660-69823-9	CZ 2.5 SED (10/14/2015)	Total/NA	Solid	365.2/365.3/365	
660-69852-7	CZ 3.0 SED (10/15/2015)	Total/NA	Solid	365.2/365.3/365	
660-69852-8	CZ 3.5 SED (10/15/2015)	Total/NA	Solid	365.2/365.3/365	
660-69852-9	CZ 4.0 SED (10/15/2015)	Total/NA	Solid	365.2/365.3/365	
660-69852-10	CZ 4.5 SED (10/15/2015)	Total/NA	Solid	365.2/365.3/365	
660-69852-11	CZ 5.0 SED (10/15/2015)	Total/NA	Solid	365.2/365.3/365	
660-69852-12	CZ 5.5 SED (10/15/2015)	Total/NA	Solid	365.2/365.3/365	
660-69852-13	CZ 6.0 SED (10/15/2015)	Total/NA	Solid	365.2/365.3/365	
LCS 400-279169/2-A	Lab Control Sample	Total/NA	Solid	365.2/365.3/365	
MB 400-279169/1-A	Method Blank	Total/NA	Solid	365.2/365.3/365	

Analysis Batch: 279280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-1	CZ 0.5 SED (10/14/2015)	Soluble	Solid	354.1	279287
660-69823-1 MS	CZ 0.5 SED (10/14/2015)	Soluble	Solid	354.1	279287
660-69823-1 MSD	CZ 0.5 SED (10/14/2015)	Soluble	Solid	354.1	279287
660-69823-4	CZ 1.0 SED (10/14/2015)	Soluble	Solid	354.1	279287
660-69823-5	CZ 1.5 SED (10/14/2015)	Soluble	Solid	354.1	279287
660-69823-8	CZ 2.0 SED (10/14/2015)	Soluble	Solid	354.1	279287
660-69823-9	CZ 2.5 SED (10/14/2015)	Soluble	Solid	354.1	279287
LCS 400-279287/5-A	Lab Control Sample	Soluble	Solid	354.1	279287
MB 400-279287/3-A	Method Blank	Soluble	Solid	354.1	279287
MRL 400-279287/6-A	Lab Control Sample	Soluble	Solid	354.1	279287

Analysis Batch: 279281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-1	CZ 0.5 SED (10/14/2015)	Soluble	Solid	365.1	279289
660-69823-4	CZ 1.0 SED (10/14/2015)	Soluble	Solid	365.1	279289
660-69823-4 MS	CZ 1.0 SED (10/14/2015)	Soluble	Solid	365.1	279289
660-69823-4 MSD	CZ 1.0 SED (10/14/2015)	Soluble	Solid	365.1	279289
660-69823-5	CZ 1.5 SED (10/14/2015)	Soluble	Solid	365.1	279289
660-69823-8	CZ 2.0 SED (10/14/2015)	Soluble	Solid	365.1	279289
660-69823-9	CZ 2.5 SED (10/14/2015)	Soluble	Solid	365.1	279289

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 279281 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-279289/6-A	Lab Control Sample	Soluble	Solid	365.1	279289
MB 400-279289/3-A	Method Blank	Soluble	Solid	365.1	279289

Leach Batch: 279287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-1	CZ 0.5 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-1 MS	CZ 0.5 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-1 MSD	CZ 0.5 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-4	CZ 1.0 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-5	CZ 1.5 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-8	CZ 2.0 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-9	CZ 2.5 SED (10/14/2015)	Soluble	Solid	DI Leach	
LCS 400-279287/5-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-279287/3-A	Method Blank	Soluble	Solid	DI Leach	
MRL 400-279287/6-A	Lab Control Sample	Soluble	Solid	DI Leach	

Leach Batch: 279289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-1	CZ 0.5 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-4	CZ 1.0 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-4 MS	CZ 1.0 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-4 MSD	CZ 1.0 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-5	CZ 1.5 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-8	CZ 2.0 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-9	CZ 2.5 SED (10/14/2015)	Soluble	Solid	DI Leach	
LCS 400-279289/6-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-279289/3-A	Method Blank	Soluble	Solid	DI Leach	

Leach Batch: 279302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-7	CZ 3.0 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-7 MS	CZ 3.0 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-7 MSD	CZ 3.0 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-8	CZ 3.5 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-9	CZ 4.0 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-10	CZ 4.5 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-11	CZ 5.0 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-12	CZ 5.5 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-13	CZ 6.0 SED (10/15/2015)	Soluble	Solid	DI Leach	
LCS 400-279302/6-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-279302/4-A	Method Blank	Soluble	Solid	DI Leach	

Leach Batch: 279303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-7	CZ 3.0 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-8	CZ 3.5 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-8 MS	CZ 3.5 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-8 MSD	CZ 3.5 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-9	CZ 4.0 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-10	CZ 4.5 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-11	CZ 5.0 SED (10/15/2015)	Soluble	Solid	DI Leach	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Leach Batch: 279303 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-12	CZ 5.5 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-13	CZ 6.0 SED (10/15/2015)	Soluble	Solid	DI Leach	
LCS 400-279303/6-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-279303/3-A	Method Blank	Soluble	Solid	DI Leach	
MRL 400-279303/7-A	Lab Control Sample	Soluble	Solid	DI Leach	

Analysis Batch: 279305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-7	CZ 3.0 SED (10/15/2015)	Soluble	Solid	365.1	279302
660-69852-7 MS	CZ 3.0 SED (10/15/2015)	Soluble	Solid	365.1	279302
660-69852-7 MSD	CZ 3.0 SED (10/15/2015)	Soluble	Solid	365.1	279302
660-69852-8	CZ 3.5 SED (10/15/2015)	Soluble	Solid	365.1	279302
660-69852-9	CZ 4.0 SED (10/15/2015)	Soluble	Solid	365.1	279302
660-69852-10	CZ 4.5 SED (10/15/2015)	Soluble	Solid	365.1	279302
660-69852-11	CZ 5.0 SED (10/15/2015)	Soluble	Solid	365.1	279302
660-69852-12	CZ 5.5 SED (10/15/2015)	Soluble	Solid	365.1	279302
660-69852-13	CZ 6.0 SED (10/15/2015)	Soluble	Solid	365.1	279302
LCS 400-279302/6-A	Lab Control Sample	Soluble	Solid	365.1	279302
MB 400-279302/4-A	Method Blank	Soluble	Solid	365.1	279302

Analysis Batch: 279306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-7	CZ 3.0 SED (10/15/2015)	Soluble	Solid	354.1	279303
660-69852-8	CZ 3.5 SED (10/15/2015)	Soluble	Solid	354.1	279303
660-69852-8 MS	CZ 3.5 SED (10/15/2015)	Soluble	Solid	354.1	279303
660-69852-8 MSD	CZ 3.5 SED (10/15/2015)	Soluble	Solid	354.1	279303
660-69852-9	CZ 4.0 SED (10/15/2015)	Soluble	Solid	354.1	279303
660-69852-10	CZ 4.5 SED (10/15/2015)	Soluble	Solid	354.1	279303
660-69852-11	CZ 5.0 SED (10/15/2015)	Soluble	Solid	354.1	279303
660-69852-12	CZ 5.5 SED (10/15/2015)	Soluble	Solid	354.1	279303
660-69852-13	CZ 6.0 SED (10/15/2015)	Soluble	Solid	354.1	279303
LCS 400-279303/6-A	Lab Control Sample	Soluble	Solid	354.1	279303
MB 400-279303/3-A	Method Blank	Soluble	Solid	354.1	279303
MRL 400-279303/7-A	Lab Control Sample	Soluble	Solid	354.1	279303

Prep Batch: 279474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-2	CZ 0.5 SW (10/14/2015)	Total/NA	Water	351.2	
660-69823-2 MS	CZ 0.5 SW (10/14/2015)	Total/NA	Water	351.2	
660-69823-2 MSD	CZ 0.5 SW (10/14/2015)	Total/NA	Water	351.2	
660-69823-3	CZ 0.5 PW (10/14/2015)	Total/NA	Water	351.2	
660-69823-6	CZ 1.5 SW (10/14/2015)	Total/NA	Water	351.2	
660-69823-7	CZ 1.5 PW (10/14/2015)	Total/NA	Water	351.2	
660-69823-10	CZ 2.5 SW (10/14/2015)	Total/NA	Water	351.2	
660-69823-11	CZ 2.5 PW (10/14/2015)	Total/NA	Water	351.2	
660-69852-1	CZ 3.5 SW (10/15/2015)	Total/NA	Water	351.2	
660-69852-2	CZ 3.5 PW (10/15/2015)	Total/NA	Water	351.2	
660-69852-3	CZ 4.5 SW (10/15/2015)	Total/NA	Water	351.2	
660-69852-4	CZ 4.5 PW (10/15/2015)	Total/NA	Water	351.2	
LCS 400-279474/2-A	Lab Control Sample	Total/NA	Water	351.2	
MB 400-279474/1-A	Method Blank	Total/NA	Water	351.2	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Prep Batch: 279475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-2	CZ 0.5 SW (10/14/2015)	Total/NA	Water	365.2/365.3/365	
660-69823-2 MS	CZ 0.5 SW (10/14/2015)	Total/NA	Water	365.2/365.3/365	
660-69823-2 MSD	CZ 0.5 SW (10/14/2015)	Total/NA	Water	365.2/365.3/365	
660-69823-3	CZ 0.5 PW (10/14/2015)	Total/NA	Water	365.2/365.3/365	
660-69823-6	CZ 1.5 SW (10/14/2015)	Total/NA	Water	365.2/365.3/365	
660-69823-7	CZ 1.5 PW (10/14/2015)	Total/NA	Water	365.2/365.3/365	
660-69823-10	CZ 2.5 SW (10/14/2015)	Total/NA	Water	365.2/365.3/365	
660-69823-11	CZ 2.5 PW (10/14/2015)	Total/NA	Water	365.2/365.3/365	
660-69852-1	CZ 3.5 SW (10/15/2015)	Total/NA	Water	365.2/365.3/365	
660-69852-2	CZ 3.5 PW (10/15/2015)	Total/NA	Water	365.2/365.3/365	
660-69852-3	CZ 4.5 SW (10/15/2015)	Total/NA	Water	365.2/365.3/365	
660-69852-4	CZ 4.5 PW (10/15/2015)	Total/NA	Water	365.2/365.3/365	
LCS 400-279475/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
MB 400-279475/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 279619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-2	CZ 0.5 SW (10/14/2015)	Total/NA	Water	SM3500_FE_D	
660-69823-3	CZ 0.5 PW (10/14/2015)	Total/NA	Water	SM3500_FE_D	
660-69823-6	CZ 1.5 SW (10/14/2015)	Total/NA	Water	SM3500_FE_D	
660-69823-7	CZ 1.5 PW (10/14/2015)	Total/NA	Water	SM3500_FE_D	
660-69823-10	CZ 2.5 SW (10/14/2015)	Total/NA	Water	SM3500_FE_D	
660-69823-11	CZ 2.5 PW (10/14/2015)	Total/NA	Water	SM3500_FE_D	
660-69823-11 DU	CZ 2.5 PW (10/14/2015)	Total/NA	Water	SM3500_FE_D	
660-69852-1	CZ 3.5 SW (10/15/2015)	Total/NA	Water	SM3500_FE_D	
660-69852-2	CZ 3.5 PW (10/15/2015)	Total/NA	Water	SM3500_FE_D	
660-69852-3	CZ 4.5 SW (10/15/2015)	Total/NA	Water	SM3500_FE_D	
660-69852-4	CZ 4.5 PW (10/15/2015)	Total/NA	Water	SM3500_FE_D	
LCS 400-279619/8	Lab Control Sample	Total/NA	Water	SM3500_FE_D	
MB 400-279619/7	Method Blank	Total/NA	Water	SM3500_FE_D	
MRL 400-279619/4	Lab Control Sample	Total/NA	Water	SM3500_FE_D	

Analysis Batch: 279639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-1	CZ 0.5 SED (10/14/2015)	Total/NA	Solid	365.4	279169
660-69823-4	CZ 1.0 SED (10/14/2015)	Total/NA	Solid	365.4	279169
660-69823-5	CZ 1.5 SED (10/14/2015)	Total/NA	Solid	365.4	279169
660-69823-8	CZ 2.0 SED (10/14/2015)	Total/NA	Solid	365.4	279169
660-69823-9	CZ 2.5 SED (10/14/2015)	Total/NA	Solid	365.4	279169
660-69852-7	CZ 3.0 SED (10/15/2015)	Total/NA	Solid	365.4	279169
660-69852-8	CZ 3.5 SED (10/15/2015)	Total/NA	Solid	365.4	279169
660-69852-9	CZ 4.0 SED (10/15/2015)	Total/NA	Solid	365.4	279169
660-69852-10	CZ 4.5 SED (10/15/2015)	Total/NA	Solid	365.4	279169
660-69852-11	CZ 5.0 SED (10/15/2015)	Total/NA	Solid	365.4	279169
660-69852-12	CZ 5.5 SED (10/15/2015)	Total/NA	Solid	365.4	279169
660-69852-13	CZ 6.0 SED (10/15/2015)	Total/NA	Solid	365.4	279169
LCS 400-279169/2-A	Lab Control Sample	Total/NA	Solid	365.4	279169
MB 400-279169/1-A	Method Blank	Total/NA	Solid	365.4	279169
MRL 400-279639/38	Lab Control Sample	Total/NA	Solid	365.4	

Analysis Batch: 279647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-2	CZ 0.5 SW (10/14/2015)	Total/NA	Water	365.4	279475

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 279647 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-2 MS	CZ 0.5 SW (10/14/2015)	Total/NA	Water	365.4	279475
660-69823-2 MSD	CZ 0.5 SW (10/14/2015)	Total/NA	Water	365.4	279475
660-69823-3	CZ 0.5 PW (10/14/2015)	Total/NA	Water	365.4	279475
660-69823-6	CZ 1.5 SW (10/14/2015)	Total/NA	Water	365.4	279475
660-69823-7	CZ 1.5 PW (10/14/2015)	Total/NA	Water	365.4	279475
660-69823-10	CZ 2.5 SW (10/14/2015)	Total/NA	Water	365.4	279475
660-69823-11	CZ 2.5 PW (10/14/2015)	Total/NA	Water	365.4	279475
660-69852-1	CZ 3.5 SW (10/15/2015)	Total/NA	Water	365.4	279475
660-69852-2	CZ 3.5 PW (10/15/2015)	Total/NA	Water	365.4	279475
660-69852-3	CZ 4.5 SW (10/15/2015)	Total/NA	Water	365.4	279475
660-69852-4	CZ 4.5 PW (10/15/2015)	Total/NA	Water	365.4	279475
LCS 400-279475/2-A	Lab Control Sample	Total/NA	Water	365.4	279475
MB 400-279475/1-A	Method Blank	Total/NA	Water	365.4	279475
MRL 400-279647/14	Lab Control Sample	Total/NA	Water	365.4	

Leach Batch: 279688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69879-7	CZ 6.5 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-8	CZ 7.0 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-9	CZ 7.5 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-10	CZ 8.0 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-10 MS	CZ 8.0 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-10 MSD	CZ 8.0 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-11	CZ 8.5 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-12	CZ 9.0 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-13	CZ 9.5 SED (10/16/2015)	Soluble	Solid	DI Leach	
LCS 400-279688/6-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-279688/3-A	Method Blank	Soluble	Solid	DI Leach	
MRL 400-279688/7-A	Lab Control Sample	Soluble	Solid	DI Leach	

Leach Batch: 279699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69879-7	CZ 6.5 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-8	CZ 7.0 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-9	CZ 7.5 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-9 MS	CZ 7.5 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-9 MSD	CZ 7.5 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-10	CZ 8.0 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-11	CZ 8.5 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-12	CZ 9.0 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-13	CZ 9.5 SED (10/16/2015)	Soluble	Solid	DI Leach	
LCS 400-279699/6-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-279699/3-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 279703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-1	CZ 0.5 SED (10/14/2015)	Total/NA	Solid	351.2	279168
660-69823-4	CZ 1.0 SED (10/14/2015)	Total/NA	Solid	351.2	279168
660-69823-5	CZ 1.5 SED (10/14/2015)	Total/NA	Solid	351.2	279168
660-69823-8	CZ 2.0 SED (10/14/2015)	Total/NA	Solid	351.2	279168
660-69823-9	CZ 2.5 SED (10/14/2015)	Total/NA	Solid	351.2	279168

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 279703 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-7	CZ 3.0 SED (10/15/2015)	Total/NA	Solid	351.2	279168
660-69852-8	CZ 3.5 SED (10/15/2015)	Total/NA	Solid	351.2	279168
660-69852-9	CZ 4.0 SED (10/15/2015)	Total/NA	Solid	351.2	279168
660-69852-10	CZ 4.5 SED (10/15/2015)	Total/NA	Solid	351.2	279168
660-69852-11	CZ 5.0 SED (10/15/2015)	Total/NA	Solid	351.2	279168
660-69852-12	CZ 5.5 SED (10/15/2015)	Total/NA	Solid	351.2	279168
660-69852-13	CZ 6.0 SED (10/15/2015)	Total/NA	Solid	351.2	279168
LCS 400-279167/2-B	Lab Control Sample	Total/NA	Solid	351.2	279168
MB 400-279167/1-B	Method Blank	Total/NA	Solid	351.2	279168
MRL 400-279703/11	Lab Control Sample	Total/NA	Solid	351.2	

Prep Batch: 279705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69879-7	CZ 6.5 SED (10/16/2015)	Total/NA	Solid	351.2	
660-69879-7 MS	CZ 6.5 SED (10/16/2015)	Total/NA	Solid	351.2	
660-69879-7 MSD	CZ 6.5 SED (10/16/2015)	Total/NA	Solid	351.2	
660-69879-8	CZ 7.0 SED (10/16/2015)	Total/NA	Solid	351.2	
660-69879-9	CZ 7.5 SED (10/16/2015)	Total/NA	Solid	351.2	
660-69879-10	CZ 8.0 SED (10/16/2015)	Total/NA	Solid	351.2	
660-69879-11	CZ 8.5 SED (10/16/2015)	Total/NA	Solid	351.2	
660-69879-12	CZ 9.0 SED (10/16/2015)	Total/NA	Solid	351.2	
660-69879-13	CZ 9.5 SED (10/16/2015)	Total/NA	Solid	351.2	
LCS 400-279705/2-A	Lab Control Sample	Total/NA	Solid	351.2	
MB 400-279705/1-A	Method Blank	Total/NA	Solid	351.2	

Prep Batch: 279706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69879-7	CZ 6.5 SED (10/16/2015)	Total/NA	Solid	365.2/365.3/365	
660-69879-7 MS	CZ 6.5 SED (10/16/2015)	Total/NA	Solid	365.2/365.3/365	
660-69879-7 MSD	CZ 6.5 SED (10/16/2015)	Total/NA	Solid	365.2/365.3/365	
660-69879-8	CZ 7.0 SED (10/16/2015)	Total/NA	Solid	365.2/365.3/365	
660-69879-9	CZ 7.5 SED (10/16/2015)	Total/NA	Solid	365.2/365.3/365	
660-69879-10	CZ 8.0 SED (10/16/2015)	Total/NA	Solid	365.2/365.3/365	
660-69879-11	CZ 8.5 SED (10/16/2015)	Total/NA	Solid	365.2/365.3/365	
660-69879-12	CZ 9.0 SED (10/16/2015)	Total/NA	Solid	365.2/365.3/365	
660-69879-13	CZ 9.5 SED (10/16/2015)	Total/NA	Solid	365.2/365.3/365	
LCS 400-279706/2-A	Lab Control Sample	Total/NA	Solid	365.2/365.3/365	
MB 400-279706/1-A	Method Blank	Total/NA	Solid	365.2/365.3/365	

Analysis Batch: 279716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-2	CZ 0.5 SW (10/14/2015)	Total/NA	Water	351.2	279474
660-69823-2 MS	CZ 0.5 SW (10/14/2015)	Total/NA	Water	351.2	279474
660-69823-2 MSD	CZ 0.5 SW (10/14/2015)	Total/NA	Water	351.2	279474
660-69823-3	CZ 0.5 PW (10/14/2015)	Total/NA	Water	351.2	279474
660-69823-6	CZ 1.5 SW (10/14/2015)	Total/NA	Water	351.2	279474
660-69823-7	CZ 1.5 PW (10/14/2015)	Total/NA	Water	351.2	279474
660-69823-10	CZ 2.5 SW (10/14/2015)	Total/NA	Water	351.2	279474
660-69823-11	CZ 2.5 PW (10/14/2015)	Total/NA	Water	351.2	279474
660-69852-1	CZ 3.5 SW (10/15/2015)	Total/NA	Water	351.2	279474
660-69852-2	CZ 3.5 PW (10/15/2015)	Total/NA	Water	351.2	279474

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 279716 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-3	CZ 4.5 SW (10/15/2015)	Total/NA	Water	351.2	279474
660-69852-4	CZ 4.5 PW (10/15/2015)	Total/NA	Water	351.2	279474
LCS 400-279474/2-A	Lab Control Sample	Total/NA	Water	351.2	279474
MB 400-279474/1-A	Method Blank	Total/NA	Water	351.2	279474
MRL 400-279716/11	Lab Control Sample	Total/NA	Water	351.2	

Prep Batch: 279717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-5	CZ 5.5 SW (10/15/2015)	Total/NA	Water	351.2	
660-69852-5 MS	CZ 5.5 SW (10/15/2015)	Total/NA	Water	351.2	
660-69852-5 MSD	CZ 5.5 SW (10/15/2015)	Total/NA	Water	351.2	
660-69852-6	CZ 5.5 PW (10/15/2015)	Total/NA	Water	351.2	
660-69879-1	CZ 6.5 SW (10/16/2015)	Total/NA	Water	351.2	
660-69879-2	CZ 6.5 PW (10/16/2015)	Total/NA	Water	351.2	
660-69879-3	CZ 7.5 SW (10/16/2015)	Total/NA	Water	351.2	
660-69879-4	CZ 7.5 PW (10/16/2015)	Total/NA	Water	351.2	
660-69879-5	CZ 8.5 SW (10/16/2015)	Total/NA	Water	351.2	
660-69879-6	CZ 8.5 PW (10/16/2015)	Total/NA	Water	351.2	
LCS 400-279717/2-A	Lab Control Sample	Total/NA	Water	351.2	
MB 400-279717/1-A	Method Blank	Total/NA	Water	351.2	

Prep Batch: 279720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-5	CZ 5.5 SW (10/15/2015)	Total/NA	Water	365.2/365.3/365	
660-69852-5 MS	CZ 5.5 SW (10/15/2015)	Total/NA	Water	365.2/365.3/365	
660-69852-5 MSD	CZ 5.5 SW (10/15/2015)	Total/NA	Water	365.2/365.3/365	
660-69852-6	CZ 5.5 PW (10/15/2015)	Total/NA	Water	365.2/365.3/365	
660-69879-1	CZ 6.5 SW (10/16/2015)	Total/NA	Water	365.2/365.3/365	
660-69879-2	CZ 6.5 PW (10/16/2015)	Total/NA	Water	365.2/365.3/365	
660-69879-3	CZ 7.5 SW (10/16/2015)	Total/NA	Water	365.2/365.3/365	
660-69879-4	CZ 7.5 PW (10/16/2015)	Total/NA	Water	365.2/365.3/365	
660-69879-5	CZ 8.5 SW (10/16/2015)	Total/NA	Water	365.2/365.3/365	
660-69879-6	CZ 8.5 PW (10/16/2015)	Total/NA	Water	365.2/365.3/365	
LCS 400-279720/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
MB 400-279720/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 279732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69879-7	CZ 6.5 SED (10/16/2015)	Soluble	Solid	354.1	279688
660-69879-8	CZ 7.0 SED (10/16/2015)	Soluble	Solid	354.1	279688
660-69879-9	CZ 7.5 SED (10/16/2015)	Soluble	Solid	354.1	279688
660-69879-10	CZ 8.0 SED (10/16/2015)	Soluble	Solid	354.1	279688
660-69879-10 MS	CZ 8.0 SED (10/16/2015)	Soluble	Solid	354.1	279688
660-69879-10 MSD	CZ 8.0 SED (10/16/2015)	Soluble	Solid	354.1	279688
660-69879-11	CZ 8.5 SED (10/16/2015)	Soluble	Solid	354.1	279688
660-69879-12	CZ 9.0 SED (10/16/2015)	Soluble	Solid	354.1	279688
660-69879-13	CZ 9.5 SED (10/16/2015)	Soluble	Solid	354.1	279688
LCS 400-279688/6-A	Lab Control Sample	Soluble	Solid	354.1	279688
MB 400-279688/3-A	Method Blank	Soluble	Solid	354.1	279688
MRL 400-279688/7-A	Lab Control Sample	Soluble	Solid	354.1	279688

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 279735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69879-7	CZ 6.5 SED (10/16/2015)	Soluble	Solid	365.1	279699
660-69879-8	CZ 7.0 SED (10/16/2015)	Soluble	Solid	365.1	279699
660-69879-9	CZ 7.5 SED (10/16/2015)	Soluble	Solid	365.1	279699
660-69879-9 MS	CZ 7.5 SED (10/16/2015)	Soluble	Solid	365.1	279699
660-69879-9 MSD	CZ 7.5 SED (10/16/2015)	Soluble	Solid	365.1	279699
660-69879-10	CZ 8.0 SED (10/16/2015)	Soluble	Solid	365.1	279699
660-69879-11	CZ 8.5 SED (10/16/2015)	Soluble	Solid	365.1	279699
660-69879-12	CZ 9.0 SED (10/16/2015)	Soluble	Solid	365.1	279699
660-69879-13	CZ 9.5 SED (10/16/2015)	Soluble	Solid	365.1	279699
LCS 400-279699/6-A	Lab Control Sample	Soluble	Solid	365.1	279699
MB 400-279699/3-A	Method Blank	Soluble	Solid	365.1	279699

Analysis Batch: 279929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-5	CZ 5.5 SW (10/15/2015)	Total/NA	Water	SM3500_FE_D	
660-69852-6	CZ 5.5 PW (10/15/2015)	Total/NA	Water	SM3500_FE_D	
660-69879-1	CZ 6.5 SW (10/16/2015)	Total/NA	Water	SM3500_FE_D	
660-69879-2	CZ 6.5 PW (10/16/2015)	Total/NA	Water	SM3500_FE_D	
660-69879-3	CZ 7.5 SW (10/16/2015)	Total/NA	Water	SM3500_FE_D	
660-69879-4	CZ 7.5 PW (10/16/2015)	Total/NA	Water	SM3500_FE_D	
660-69879-5	CZ 8.5 SW (10/16/2015)	Total/NA	Water	SM3500_FE_D	
660-69879-6	CZ 8.5 PW (10/16/2015)	Total/NA	Water	SM3500_FE_D	
660-69893-1	HM 10.5 SW (10/19/2015)	Total/NA	Water	SM3500_FE_D	
660-69893-2	HM 10.5 PW (10/19/2015)	Total/NA	Water	SM3500_FE_D	
660-69893-2 DU	HM 10.5 PW (10/19/2015)	Total/NA	Water	SM3500_FE_D	
660-69893-3	HM 9.5 SW (10/19/2015)	Total/NA	Water	SM3500_FE_D	
660-69893-4	HM 9.5 PW (10/19/2015)	Total/NA	Water	SM3500_FE_D	
LCS 400-279929/8	Lab Control Sample	Total/NA	Water	SM3500_FE_D	
MB 400-279929/7	Method Blank	Total/NA	Water	SM3500_FE_D	
MRL 400-279929/4	Lab Control Sample	Total/NA	Water	SM3500_FE_D	

Leach Batch: 279979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-5	HM 10.5 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69893-5 MS	HM 10.5 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69893-5 MSD	HM 10.5 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69893-6	HM 10.0 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69893-7	HM 9.5 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69893-8	HM 9.0 SED (10/19/2015)	Soluble	Solid	DI Leach	
LCS 400-279979/6-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-279979/4-A	Method Blank	Soluble	Solid	DI Leach	

Leach Batch: 279981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-5	HM 10.5 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69893-6	HM 10.0 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69893-6 MS	HM 10.0 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69893-6 MSD	HM 10.0 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69893-7	HM 9.5 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69893-8	HM 9.0 SED (10/19/2015)	Soluble	Solid	DI Leach	
LCS 400-279981/7-A	Lab Control Sample	Soluble	Solid	DI Leach	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Leach Batch: 279981 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-279981/3-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 279997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-5	HM 10.5 SED (10/19/2015)	Soluble	Solid	354.1	279979
660-69893-5 MS	HM 10.5 SED (10/19/2015)	Soluble	Solid	354.1	279979
660-69893-5 MSD	HM 10.5 SED (10/19/2015)	Soluble	Solid	354.1	279979
660-69893-6	HM 10.0 SED (10/19/2015)	Soluble	Solid	354.1	279979
660-69893-7	HM 9.5 SED (10/19/2015)	Soluble	Solid	354.1	279979
660-69893-8	HM 9.0 SED (10/19/2015)	Soluble	Solid	354.1	279979
LCS 400-279979/6-A	Lab Control Sample	Soluble	Solid	354.1	279979
MB 400-279979/4-A	Method Blank	Soluble	Solid	354.1	279979

Analysis Batch: 279998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-5	HM 10.5 SED (10/19/2015)	Soluble	Solid	365.1	279981
660-69893-6	HM 10.0 SED (10/19/2015)	Soluble	Solid	365.1	279981
660-69893-6 MS	HM 10.0 SED (10/19/2015)	Soluble	Solid	365.1	279981
660-69893-6 MSD	HM 10.0 SED (10/19/2015)	Soluble	Solid	365.1	279981
660-69893-7	HM 9.5 SED (10/19/2015)	Soluble	Solid	365.1	279981
660-69893-8	HM 9.0 SED (10/19/2015)	Soluble	Solid	365.1	279981
LCS 400-279981/7-A	Lab Control Sample	Soluble	Solid	365.1	279981
MB 400-279981/3-A	Method Blank	Soluble	Solid	365.1	279981

Prep Batch: 280026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-1	HM 10.5 SW (10/19/2015)	Total/NA	Water	351.2	
660-69893-2	HM 10.5 PW (10/19/2015)	Total/NA	Water	351.2	
660-69893-3	HM 9.5 SW (10/19/2015)	Total/NA	Water	351.2	
660-69893-4	HM 9.5 PW (10/19/2015)	Total/NA	Water	351.2	
LCS 400-280026/2-A	Lab Control Sample	Total/NA	Water	351.2	
MB 400-280026/1-A	Method Blank	Total/NA	Water	351.2	

Leach Batch: 280027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-1	CZ 0.5 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-1 MS	CZ 0.5 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-1 MSD	CZ 0.5 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-4	CZ 1.0 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-5	CZ 1.5 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-8	CZ 2.0 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-9	CZ 2.5 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69852-7	CZ 3.0 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-8	CZ 3.5 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-9	CZ 4.0 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-10	CZ 4.5 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-11	CZ 5.0 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-12	CZ 5.5 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-12 MS	CZ 5.5 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-12 MSD	CZ 5.5 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-13	CZ 6.0 SED (10/15/2015)	Soluble	Solid	DI Leach	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Leach Batch: 280027 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69879-7	CZ 6.5 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-8	CZ 7.0 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-9	CZ 7.5 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-10	CZ 8.0 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-11	CZ 8.5 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-12	CZ 9.0 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-13	CZ 9.5 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69893-5	HM 10.5 SED (10/19/2015)	Soluble	Solid	DI Leach	
LCS 400-280027/5-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-280027/4-A	Method Blank	Soluble	Solid	DI Leach	

Prep Batch: 280029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-1	HM 10.5 SW (10/19/2015)	Total/NA	Water	365.2/365.3/365	
660-69893-2	HM 10.5 PW (10/19/2015)	Total/NA	Water	365.2/365.3/365	
660-69893-3	HM 9.5 SW (10/19/2015)	Total/NA	Water	365.2/365.3/365	
660-69893-4	HM 9.5 PW (10/19/2015)	Total/NA	Water	365.2/365.3/365	
LCS 400-280029/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
MB 400-280029/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	

Prep Batch: 280056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-5	HM 10.5 SED (10/19/2015)	Total/NA	Solid	351.2	
660-69893-5 MS	HM 10.5 SED (10/19/2015)	Total/NA	Solid	351.2	
660-69893-5 MSD	HM 10.5 SED (10/19/2015)	Total/NA	Solid	351.2	
660-69893-6	HM 10.0 SED (10/19/2015)	Total/NA	Solid	351.2	
660-69893-7	HM 9.5 SED (10/19/2015)	Total/NA	Solid	351.2	
660-69893-8	HM 9.0 SED (10/19/2015)	Total/NA	Solid	351.2	
LCS 400-280056/2-A	Lab Control Sample	Total/NA	Solid	351.2	
MB 400-280056/1-A	Method Blank	Total/NA	Solid	351.2	

Prep Batch: 280060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-5	HM 10.5 SED (10/19/2015)	Total/NA	Solid	365.2/365.3/365	
660-69893-5 MS	HM 10.5 SED (10/19/2015)	Total/NA	Solid	365.2/365.3/365	
660-69893-5 MSD	HM 10.5 SED (10/19/2015)	Total/NA	Solid	365.2/365.3/365	
660-69893-6	HM 10.0 SED (10/19/2015)	Total/NA	Solid	365.2/365.3/365	
660-69893-7	HM 9.5 SED (10/19/2015)	Total/NA	Solid	365.2/365.3/365	
660-69893-8	HM 9.0 SED (10/19/2015)	Total/NA	Solid	365.2/365.3/365	
LCS 400-280060/2-A	Lab Control Sample	Total/NA	Solid	365.2/365.3/365	
MB 400-280060/1-A	Method Blank	Total/NA	Solid	365.2/365.3/365	

Leach Batch: 280061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-1	CZ 0.5 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-1 MS	CZ 0.5 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-1 MSD	CZ 0.5 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-4	CZ 1.0 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-5	CZ 1.5 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-8	CZ 2.0 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-9	CZ 2.5 SED (10/14/2015)	Soluble	Solid	DI Leach	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Leach Batch: 280061 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-7	CZ 3.0 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-8	CZ 3.5 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-9	CZ 4.0 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-10	CZ 4.5 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-11	CZ 5.0 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-12	CZ 5.5 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-12 MS	CZ 5.5 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-12 MSD	CZ 5.5 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-13	CZ 6.0 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69879-7	CZ 6.5 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-8	CZ 7.0 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-9	CZ 7.5 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-10	CZ 8.0 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-11	CZ 8.5 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-12	CZ 9.0 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-13	CZ 9.5 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69893-5	HM 10.5 SED (10/19/2015)	Soluble	Solid	DI Leach	
LCS 400-280061/5-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-280061/4-A	Method Blank	Soluble	Solid	DI Leach	

Leach Batch: 280072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-6	HM 10.0 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69893-6 MS	HM 10.0 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69893-6 MSD	HM 10.0 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69893-7	HM 9.5 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69893-8	HM 9.0 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69919-13	HM8.5 SED (10/20/2015)	Soluble	Solid	DI Leach	
LCS 400-280072/5-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-280072/4-A	Method Blank	Soluble	Solid	DI Leach	

Leach Batch: 280074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-6	HM 10.0 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69893-6 MS	HM 10.0 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69893-6 MSD	HM 10.0 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69893-7	HM 9.5 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69893-8	HM 9.0 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69919-13	HM8.5 SED (10/20/2015)	Soluble	Solid	DI Leach	
LCS 400-280074/5-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-280074/4-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 280087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-5	CZ 5.5 SW (10/15/2015)	Total/NA	Water	351.2	279717
660-69852-5 MS	CZ 5.5 SW (10/15/2015)	Total/NA	Water	351.2	279717
660-69852-5 MSD	CZ 5.5 SW (10/15/2015)	Total/NA	Water	351.2	279717
660-69852-6	CZ 5.5 PW (10/15/2015)	Total/NA	Water	351.2	279717
660-69879-1	CZ 6.5 SW (10/16/2015)	Total/NA	Water	351.2	279717
660-69879-2	CZ 6.5 PW (10/16/2015)	Total/NA	Water	351.2	279717
660-69879-3	CZ 7.5 SW (10/16/2015)	Total/NA	Water	351.2	279717

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 280087 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69879-4	CZ 7.5 PW (10/16/2015)	Total/NA	Water	351.2	279717
660-69879-5	CZ 8.5 SW (10/16/2015)	Total/NA	Water	351.2	279717
660-69879-6	CZ 8.5 PW (10/16/2015)	Total/NA	Water	351.2	279717
LCS 400-279717/2-A	Lab Control Sample	Total/NA	Water	351.2	279717
MB 400-279717/1-A	Method Blank	Total/NA	Water	351.2	279717
MRL 400-280087/11	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 280105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69879-7	CZ 6.5 SED (10/16/2015)	Total/NA	Solid	351.2	279705
660-69879-7 MS	CZ 6.5 SED (10/16/2015)	Total/NA	Solid	351.2	279705
660-69879-7 MSD	CZ 6.5 SED (10/16/2015)	Total/NA	Solid	351.2	279705
660-69879-8	CZ 7.0 SED (10/16/2015)	Total/NA	Solid	351.2	279705
660-69879-9	CZ 7.5 SED (10/16/2015)	Total/NA	Solid	351.2	279705
660-69879-10	CZ 8.0 SED (10/16/2015)	Total/NA	Solid	351.2	279705
660-69879-11	CZ 8.5 SED (10/16/2015)	Total/NA	Solid	351.2	279705
660-69879-12	CZ 9.0 SED (10/16/2015)	Total/NA	Solid	351.2	279705
660-69879-13	CZ 9.5 SED (10/16/2015)	Total/NA	Solid	351.2	279705
LCS 400-279705/2-A	Lab Control Sample	Total/NA	Solid	351.2	279705
MB 400-279705/1-A	Method Blank	Total/NA	Solid	351.2	279705
MRL 400-280105/11	Lab Control Sample	Total/NA	Solid	351.2	

Analysis Batch: 280135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-1	CZ 0.5 SED (10/14/2015)	Soluble	Solid	350.1	280027
660-69823-1 MS	CZ 0.5 SED (10/14/2015)	Soluble	Solid	350.1	280027
660-69823-1 MSD	CZ 0.5 SED (10/14/2015)	Soluble	Solid	350.1	280027
660-69823-4	CZ 1.0 SED (10/14/2015)	Soluble	Solid	350.1	280027
660-69823-5	CZ 1.5 SED (10/14/2015)	Soluble	Solid	350.1	280027
660-69823-8	CZ 2.0 SED (10/14/2015)	Soluble	Solid	350.1	280027
660-69823-9	CZ 2.5 SED (10/14/2015)	Soluble	Solid	350.1	280027
660-69852-7	CZ 3.0 SED (10/15/2015)	Soluble	Solid	350.1	280027
660-69852-8	CZ 3.5 SED (10/15/2015)	Soluble	Solid	350.1	280027
660-69852-9	CZ 4.0 SED (10/15/2015)	Soluble	Solid	350.1	280027
660-69852-10	CZ 4.5 SED (10/15/2015)	Soluble	Solid	350.1	280027
660-69852-11	CZ 5.0 SED (10/15/2015)	Soluble	Solid	350.1	280027
660-69852-12	CZ 5.5 SED (10/15/2015)	Soluble	Solid	350.1	280027
660-69852-12 MS	CZ 5.5 SED (10/15/2015)	Soluble	Solid	350.1	280027
660-69852-12 MSD	CZ 5.5 SED (10/15/2015)	Soluble	Solid	350.1	280027
660-69852-13	CZ 6.0 SED (10/15/2015)	Soluble	Solid	350.1	280027
660-69879-7	CZ 6.5 SED (10/16/2015)	Soluble	Solid	350.1	280027
660-69879-8	CZ 7.0 SED (10/16/2015)	Soluble	Solid	350.1	280027
660-69879-9	CZ 7.5 SED (10/16/2015)	Soluble	Solid	350.1	280027
660-69879-10	CZ 8.0 SED (10/16/2015)	Soluble	Solid	350.1	280027
660-69879-11	CZ 8.5 SED (10/16/2015)	Soluble	Solid	350.1	280027
660-69879-12	CZ 9.0 SED (10/16/2015)	Soluble	Solid	350.1	280027
660-69879-13	CZ 9.5 SED (10/16/2015)	Soluble	Solid	350.1	280027
660-69893-5	HM 10.5 SED (10/19/2015)	Soluble	Solid	350.1	280027
660-69893-6	HM 10.0 SED (10/19/2015)	Soluble	Solid	350.1	280072
660-69893-6 MS	HM 10.0 SED (10/19/2015)	Soluble	Solid	350.1	280072
660-69893-6 MSD	HM 10.0 SED (10/19/2015)	Soluble	Solid	350.1	280072

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 280135 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-7	HM 9.5 SED (10/19/2015)	Soluble	Solid	350.1	280072
660-69893-8	HM 9.0 SED (10/19/2015)	Soluble	Solid	350.1	280072
660-69919-13	HM8.5 SED (10/20/2015)	Soluble	Solid	350.1	280072
LCS 400-280027/5-A	Lab Control Sample	Soluble	Solid	350.1	280027
LCS 400-280072/5-A	Lab Control Sample	Soluble	Solid	350.1	280072
MB 400-280027/4-A	Method Blank	Soluble	Solid	350.1	280027
MB 400-280072/4-A	Method Blank	Soluble	Solid	350.1	280072
MRL 400-280135/11	Lab Control Sample	Total/NA	Solid	350.1	

Analysis Batch: 280140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-1	HM8.5 SW (10/20/2015)	Total/NA	Water	SM3500_FE_D	
660-69919-1 MS	HM8.5 SW (10/20/2015)	Total/NA	Water	SM3500_FE_D	
660-69919-1 MSD	HM8.5 SW (10/20/2015)	Total/NA	Water	SM3500_FE_D	
660-69919-2	HM8.5 PW (10/20/2015)	Total/NA	Water	SM3500_FE_D	
660-69919-3	HM7.5 SW (10/20/2015)	Total/NA	Water	SM3500_FE_D	
660-69919-4	HM7.5 PW (10/20/2015)	Total/NA	Water	SM3500_FE_D	
660-69919-5	HM6.5 SW (10-20-2015)	Total/NA	Water	SM3500_FE_D	
660-69919-6	HM6.5 PW (10-20-2015)	Total/NA	Water	SM3500_FE_D	
660-69919-7	HM5.5 SW (10-20-2015)	Total/NA	Water	SM3500_FE_D	
660-69919-8	HM5.5 PW (10-20-2015)	Total/NA	Water	SM3500_FE_D	
660-69919-9	HM4.5 SW(10/20/2015)	Total/NA	Water	SM3500_FE_D	
660-69919-10	HM4.5 PW (10-20-2015)	Total/NA	Water	SM3500_FE_D	
660-69919-11	HM3.5 SW (10-20-2015)	Total/NA	Water	SM3500_FE_D	
660-69919-11 DU	HM3.5 SW (10-20-2015)	Total/NA	Water	SM3500_FE_D	
660-69919-12	HM3.5 PW (10/20/2015)	Total/NA	Water	SM3500_FE_D	
660-69974-12	HM 2.5 SW (10/21/2015)	Total/NA	Water	SM3500_FE_D	
660-69974-13	HM 2.5 PW (10/21/2015)	Total/NA	Water	SM3500_FE_D	
660-70002-1	HM1.5 SW(10/22/2015)	Total/NA	Water	SM3500_FE_D	
660-70002-2	HM1.5 PW(10/22/2015)	Total/NA	Water	SM3500_FE_D	
660-70002-3	VW8.5SW(10/22/2015)	Total/NA	Water	SM3500_FE_D	
660-70002-4	VW8.5PW(10/22/2015)	Total/NA	Water	SM3500_FE_D	
LCS 400-280140/7	Lab Control Sample	Total/NA	Water	SM3500_FE_D	
MB 400-280140/6	Method Blank	Total/NA	Water	SM3500_FE_D	

Leach Batch: 280238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-13	HM8.5 SED (10/20/2015)	Soluble	Solid	DI Leach	
660-69919-13 MS	HM8.5 SED (10/20/2015)	Soluble	Solid	DI Leach	
660-69919-13 MSD	HM8.5 SED (10/20/2015)	Soluble	Solid	DI Leach	
660-69974-1	HM 8.0SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-2	HM 7.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-3	HM 7.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-4	HM 6.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-5	HM 6.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-6	HM 5.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-7	HM 5.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-7 DU	HM 5.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-8	HM 4.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-9	HM 4.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-10	HM 3.5 SED (10/21/2015)	Soluble	Solid	DI Leach	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Leach Batch: 280238 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-11	HM 3.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-14	HM SED 2.5 (10/21/2015)	Soluble	Solid	DI Leach	
LCS 400-280238/7-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-280238/3-A	Method Blank	Soluble	Solid	DI Leach	
MRL 400-280238/5-A	Lab Control Sample	Soluble	Solid	DI Leach	

Leach Batch: 280239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-13	HM8.5 SED (10/20/2015)	Soluble	Solid	DI Leach	
660-69974-1	HM 8.0SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-1 MS	HM 8.0SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-1 MSD	HM 8.0SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-2	HM 7.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-3	HM 7.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-4	HM 6.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-5	HM 6.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-6	HM 5.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-7	HM 5.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-8	HM 4.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-9	HM 4.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-10	HM 3.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-10 MS	HM 3.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-10 MSD	HM 3.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-11	HM 3.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-14	HM SED 2.5 (10/21/2015)	Soluble	Solid	DI Leach	
LCS 400-280239/7-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-280239/5-A	Method Blank	Soluble	Solid	DI Leach	

Prep Batch: 280253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-1	HM8.5 SW (10/20/2015)	Total/NA	Water	351.2	
660-69919-2	HM8.5 PW (10/20/2015)	Total/NA	Water	351.2	
660-69919-3	HM7.5 SW (10/20/2015)	Total/NA	Water	351.2	
660-69919-4	HM7.5 PW (10/20/2015)	Total/NA	Water	351.2	
660-69919-5	HM6.5 SW (10-20-2015)	Total/NA	Water	351.2	
660-69919-6	HM6.5 PW (10-20-2015)	Total/NA	Water	351.2	
660-69919-7	HM5.5 SW (10-20-2015)	Total/NA	Water	351.2	
660-69919-8	HM5.5 PW (10-20-2015)	Total/NA	Water	351.2	
660-69919-9	HM4.5 SW(10/20/2015)	Total/NA	Water	351.2	
660-69919-10	HM4.5 PW (10-20-2015)	Total/NA	Water	351.2	
660-69919-11	HM3.5 SW (10-20-2015)	Total/NA	Water	351.2	
660-69919-12	HM3.5 PW (10/20/2015)	Total/NA	Water	351.2	
660-69974-12	HM 2.5 SW (10/21/2015)	Total/NA	Water	351.2	
660-69974-13	HM 2.5 PW (10/21/2015)	Total/NA	Water	351.2	
LCS 400-280253/2-A	Lab Control Sample	Total/NA	Water	351.2	
MB 400-280253/1-A	Method Blank	Total/NA	Water	351.2	

Prep Batch: 280254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-1	HM8.5 SW (10/20/2015)	Total/NA	Water	365.2/365.3/365	
660-69919-2	HM8.5 PW (10/20/2015)	Total/NA	Water	365.2/365.3/365	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Prep Batch: 280254 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-3	HM7.5 SW (10/20/2015)	Total/NA	Water	365.2/365.3/365	
660-69919-4	HM7.5 PW (10/20/2015)	Total/NA	Water	365.2/365.3/365	
660-69919-5	HM6.5 SW (10-20-2015)	Total/NA	Water	365.2/365.3/365	
660-69919-6	HM6.5 PW (10-20-2015)	Total/NA	Water	365.2/365.3/365	
660-69919-7	HM5.5 SW (10-20-2015)	Total/NA	Water	365.2/365.3/365	
660-69919-8	HM5.5 PW (10-20-2015)	Total/NA	Water	365.2/365.3/365	
660-69919-9	HM4.5 SW(10/20/2015)	Total/NA	Water	365.2/365.3/365	
660-69919-10	HM4.5 PW (10-20-2015)	Total/NA	Water	365.2/365.3/365	
660-69919-11	HM3.5 SW (10-20-2015)	Total/NA	Water	365.2/365.3/365	
660-69919-12	HM3.5 PW (10/20/2015)	Total/NA	Water	365.2/365.3/365	
660-69974-12	HM 2.5 SW (10/21/2015)	Total/NA	Water	365.2/365.3/365	
660-69974-13	HM 2.5 PW (10/21/2015)	Total/NA	Water	365.2/365.3/365	
LCS 400-280254/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
MB 400-280254/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 280294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-13	HM8.5 SED (10/20/2015)	Soluble	Solid	354.1	280238
660-69919-13 MS	HM8.5 SED (10/20/2015)	Soluble	Solid	354.1	280238
660-69919-13 MSD	HM8.5 SED (10/20/2015)	Soluble	Solid	354.1	280238
660-69974-1	HM 8.0SED (10/21/2015)	Soluble	Solid	354.1	280238
660-69974-2	HM 7.5 SED (10/21/2015)	Soluble	Solid	354.1	280238
660-69974-3	HM 7.0 SED (10/21/2015)	Soluble	Solid	354.1	280238
660-69974-4	HM 6.5 SED (10/21/2015)	Soluble	Solid	354.1	280238
660-69974-5	HM 6.0 SED (10/21/2015)	Soluble	Solid	354.1	280238
660-69974-6	HM 5.5 SED (10/21/2015)	Soluble	Solid	354.1	280238
660-69974-7	HM 5.0 SED (10/21/2015)	Soluble	Solid	354.1	280238
660-69974-7 DU	HM 5.0 SED (10/21/2015)	Soluble	Solid	354.1	280238
660-69974-8	HM 4.5 SED (10/21/2015)	Soluble	Solid	354.1	280238
660-69974-9	HM 4.0 SED (10/21/2015)	Soluble	Solid	354.1	280238
660-69974-10	HM 3.5 SED (10/21/2015)	Soluble	Solid	354.1	280238
660-69974-11	HM 3.0 SED (10/21/2015)	Soluble	Solid	354.1	280238
660-69974-14	HM SED 2.5 (10/21/2015)	Soluble	Solid	354.1	280238
LCS 400-280238/7-A	Lab Control Sample	Soluble	Solid	354.1	280238
MB 400-280238/3-A	Method Blank	Soluble	Solid	354.1	280238
MRL 400-280238/5-A	Lab Control Sample	Soluble	Solid	354.1	280238

Analysis Batch: 280295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-13	HM8.5 SED (10/20/2015)	Soluble	Solid	365.1	280239
660-69974-1	HM 8.0SED (10/21/2015)	Soluble	Solid	365.1	280239
660-69974-1 MS	HM 8.0SED (10/21/2015)	Soluble	Solid	365.1	280239
660-69974-1 MSD	HM 8.0SED (10/21/2015)	Soluble	Solid	365.1	280239
660-69974-2	HM 7.5 SED (10/21/2015)	Soluble	Solid	365.1	280239
660-69974-3	HM 7.0 SED (10/21/2015)	Soluble	Solid	365.1	280239
660-69974-4	HM 6.5 SED (10/21/2015)	Soluble	Solid	365.1	280239
660-69974-5	HM 6.0 SED (10/21/2015)	Soluble	Solid	365.1	280239
660-69974-6	HM 5.5 SED (10/21/2015)	Soluble	Solid	365.1	280239
660-69974-7	HM 5.0 SED (10/21/2015)	Soluble	Solid	365.1	280239
660-69974-8	HM 4.5 SED (10/21/2015)	Soluble	Solid	365.1	280239
660-69974-9	HM 4.0 SED (10/21/2015)	Soluble	Solid	365.1	280239

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 280295 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-10	HM 3.5 SED (10/21/2015)	Soluble	Solid	365.1	280239
660-69974-10 MS	HM 3.5 SED (10/21/2015)	Soluble	Solid	365.1	280239
660-69974-10 MSD	HM 3.5 SED (10/21/2015)	Soluble	Solid	365.1	280239
660-69974-11	HM 3.0 SED (10/21/2015)	Soluble	Solid	365.1	280239
660-69974-14	HM SED 2.5 (10/21/2015)	Soluble	Solid	365.1	280239
LCS 400-280239/7-A	Lab Control Sample	Soluble	Solid	365.1	280239
MB 400-280239/5-A	Method Blank	Soluble	Solid	365.1	280239

Prep Batch: 280312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-13	HM8.5 SED (10/20/2015)	Total/NA	Solid	351.2	
660-69919-13 MS	HM8.5 SED (10/20/2015)	Total/NA	Solid	351.2	
660-69919-13 MSD	HM8.5 SED (10/20/2015)	Total/NA	Solid	351.2	
660-69974-1	HM 8.0SED (10/21/2015)	Total/NA	Solid	351.2	
660-69974-2	HM 7.5 SED (10/21/2015)	Total/NA	Solid	351.2	
660-69974-3	HM 7.0 SED (10/21/2015)	Total/NA	Solid	351.2	
660-69974-4	HM 6.5 SED (10/21/2015)	Total/NA	Solid	351.2	
660-69974-5	HM 6.0 SED (10/21/2015)	Total/NA	Solid	351.2	
660-69974-6	HM 5.5 SED (10/21/2015)	Total/NA	Solid	351.2	
660-69974-7	HM 5.0 SED (10/21/2015)	Total/NA	Solid	351.2	
660-69974-8	HM 4.5 SED (10/21/2015)	Total/NA	Solid	351.2	
660-69974-9	HM 4.0 SED (10/21/2015)	Total/NA	Solid	351.2	
660-69974-10	HM 3.5 SED (10/21/2015)	Total/NA	Solid	351.2	
660-69974-14	HM SED 2.5 (10/21/2015)	Total/NA	Solid	351.2	
LCS 400-280312/2-A	Lab Control Sample	Total/NA	Solid	351.2	
MB 400-280312/1-A	Method Blank	Total/NA	Solid	351.2	

Prep Batch: 280313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-13	HM8.5 SED (10/20/2015)	Total/NA	Solid	365.2/365.3/365	
660-69919-13 MS	HM8.5 SED (10/20/2015)	Total/NA	Solid	365.2/365.3/365	
660-69919-13 MSD	HM8.5 SED (10/20/2015)	Total/NA	Solid	365.2/365.3/365	
660-69974-1	HM 8.0SED (10/21/2015)	Total/NA	Solid	365.2/365.3/365	
660-69974-2	HM 7.5 SED (10/21/2015)	Total/NA	Solid	365.2/365.3/365	
660-69974-3	HM 7.0 SED (10/21/2015)	Total/NA	Solid	365.2/365.3/365	
660-69974-4	HM 6.5 SED (10/21/2015)	Total/NA	Solid	365.2/365.3/365	
660-69974-5	HM 6.0 SED (10/21/2015)	Total/NA	Solid	365.2/365.3/365	
660-69974-6	HM 5.5 SED (10/21/2015)	Total/NA	Solid	365.2/365.3/365	
660-69974-7	HM 5.0 SED (10/21/2015)	Total/NA	Solid	365.2/365.3/365	
660-69974-8	HM 4.5 SED (10/21/2015)	Total/NA	Solid	365.2/365.3/365	
660-69974-9	HM 4.0 SED (10/21/2015)	Total/NA	Solid	365.2/365.3/365	
660-69974-10	HM 3.5 SED (10/21/2015)	Total/NA	Solid	365.2/365.3/365	
660-69974-11	HM 3.0 SED (10/21/2015)	Total/NA	Solid	365.2/365.3/365	
660-69974-14	HM SED 2.5 (10/21/2015)	Total/NA	Solid	365.2/365.3/365	
LCS 400-280313/2-A	Lab Control Sample	Total/NA	Solid	365.2/365.3/365	
MB 400-280313/1-A	Method Blank	Total/NA	Solid	365.2/365.3/365	

Analysis Batch: 280316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-5	CZ 5.5 SW (10/15/2015)	Total/NA	Water	365.4	279720
660-69852-5 MS	CZ 5.5 SW (10/15/2015)	Total/NA	Water	365.4	279720

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 280316 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-5 MSD	CZ 5.5 SW (10/15/2015)	Total/NA	Water	365.4	279720
660-69852-6	CZ 5.5 PW (10/15/2015)	Total/NA	Water	365.4	279720
660-69879-1	CZ 6.5 SW (10/16/2015)	Total/NA	Water	365.4	279720
660-69879-2	CZ 6.5 PW (10/16/2015)	Total/NA	Water	365.4	279720
660-69879-3	CZ 7.5 SW (10/16/2015)	Total/NA	Water	365.4	279720
660-69879-4	CZ 7.5 PW (10/16/2015)	Total/NA	Water	365.4	279720
660-69879-5	CZ 8.5 SW (10/16/2015)	Total/NA	Water	365.4	279720
660-69879-6	CZ 8.5 PW (10/16/2015)	Total/NA	Water	365.4	279720
660-69879-7	CZ 6.5 SED (10/16/2015)	Total/NA	Solid	365.4	279706
660-69879-7 MS	CZ 6.5 SED (10/16/2015)	Total/NA	Solid	365.4	279706
660-69879-7 MSD	CZ 6.5 SED (10/16/2015)	Total/NA	Solid	365.4	279706
660-69879-8	CZ 7.0 SED (10/16/2015)	Total/NA	Solid	365.4	279706
660-69879-9	CZ 7.5 SED (10/16/2015)	Total/NA	Solid	365.4	279706
660-69879-10	CZ 8.0 SED (10/16/2015)	Total/NA	Solid	365.4	279706
660-69879-11	CZ 8.5 SED (10/16/2015)	Total/NA	Solid	365.4	279706
660-69879-12	CZ 9.0 SED (10/16/2015)	Total/NA	Solid	365.4	279706
660-69879-13	CZ 9.5 SED (10/16/2015)	Total/NA	Solid	365.4	279706
LCS 400-279706/2-A	Lab Control Sample	Total/NA	Solid	365.4	279706
LCS 400-279720/2-A	Lab Control Sample	Total/NA	Water	365.4	279720
MB 400-279706/1-A	Method Blank	Total/NA	Solid	365.4	279706
MB 400-279720/1-A	Method Blank	Total/NA	Water	365.4	279720
MRL 400-280316/13	Lab Control Sample	Total/NA	Solid	365.4	279720

Analysis Batch: 280319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-1	CZ 0.5 SED (10/14/2015)	Soluble	Solid	353.2	280061
660-69823-1 MS	CZ 0.5 SED (10/14/2015)	Soluble	Solid	353.2	280061
660-69823-1 MSD	CZ 0.5 SED (10/14/2015)	Soluble	Solid	353.2	280061
660-69823-4	CZ 1.0 SED (10/14/2015)	Soluble	Solid	353.2	280061
660-69823-5	CZ 1.5 SED (10/14/2015)	Soluble	Solid	353.2	280061
660-69823-8	CZ 2.0 SED (10/14/2015)	Soluble	Solid	353.2	280061
660-69823-9	CZ 2.5 SED (10/14/2015)	Soluble	Solid	353.2	280061
660-69852-7	CZ 3.0 SED (10/15/2015)	Soluble	Solid	353.2	280061
660-69852-8	CZ 3.5 SED (10/15/2015)	Soluble	Solid	353.2	280061
660-69852-9	CZ 4.0 SED (10/15/2015)	Soluble	Solid	353.2	280061
660-69852-10	CZ 4.5 SED (10/15/2015)	Soluble	Solid	353.2	280061
660-69852-11	CZ 5.0 SED (10/15/2015)	Soluble	Solid	353.2	280061
660-69852-12	CZ 5.5 SED (10/15/2015)	Soluble	Solid	353.2	280061
660-69852-12 MS	CZ 5.5 SED (10/15/2015)	Soluble	Solid	353.2	280061
660-69852-12 MSD	CZ 5.5 SED (10/15/2015)	Soluble	Solid	353.2	280061
660-69852-13	CZ 6.0 SED (10/15/2015)	Soluble	Solid	353.2	280061
660-69879-7	CZ 6.5 SED (10/16/2015)	Soluble	Solid	353.2	280061
660-69879-8	CZ 7.0 SED (10/16/2015)	Soluble	Solid	353.2	280061
660-69879-9	CZ 7.5 SED (10/16/2015)	Soluble	Solid	353.2	280061
660-69879-10	CZ 8.0 SED (10/16/2015)	Soluble	Solid	353.2	280061
660-69879-11	CZ 8.5 SED (10/16/2015)	Soluble	Solid	353.2	280061
660-69879-12	CZ 9.0 SED (10/16/2015)	Soluble	Solid	353.2	280061
660-69879-13	CZ 9.5 SED (10/16/2015)	Soluble	Solid	353.2	280061
660-69893-5	HM 10.5 SED (10/19/2015)	Soluble	Solid	353.2	280061
660-69893-6	HM 10.0 SED (10/19/2015)	Soluble	Solid	353.2	280074
660-69893-6 MS	HM 10.0 SED (10/19/2015)	Soluble	Solid	353.2	280074

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 280319 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-6 MSD	HM 10.0 SED (10/19/2015)	Soluble	Solid	353.2	280074
660-69893-7	HM 9.5 SED (10/19/2015)	Soluble	Solid	353.2	280074
660-69893-8	HM 9.0 SED (10/19/2015)	Soluble	Solid	353.2	280074
660-69919-13	HM8.5 SED (10/20/2015)	Soluble	Solid	353.2	280074
LCS 400-280061/5-A	Lab Control Sample	Soluble	Solid	353.2	280061
LCS 400-280074/5-A	Lab Control Sample	Soluble	Solid	353.2	280074
MB 400-280061/4-A	Method Blank	Soluble	Solid	353.2	280061
MB 400-280074/4-A	Method Blank	Soluble	Solid	353.2	280074
MRL 400-280319/13	Lab Control Sample	Total/NA	Solid	353.2	

Analysis Batch: 280320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-1	HM 10.5 SW (10/19/2015)	Total/NA	Water	365.4	280029
660-69893-2	HM 10.5 PW (10/19/2015)	Total/NA	Water	365.4	280029
660-69893-3	HM 9.5 SW (10/19/2015)	Total/NA	Water	365.4	280029
660-69893-4	HM 9.5 PW (10/19/2015)	Total/NA	Water	365.4	280029
LCS 400-280029/2-A	Lab Control Sample	Total/NA	Water	365.4	280029
MB 400-280029/1-A	Method Blank	Total/NA	Water	365.4	280029
MRL 400-280320/13	Lab Control Sample	Total/NA	Water	365.4	

Analysis Batch: 280335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-2	CZ 0.5 SW (10/14/2015)	Total/NA	Water	SM 4500 CI- E	
LCS 400-280335/13	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
MB 400-280335/6	Method Blank	Total/NA	Water	SM 4500 CI- E	
MRL 400-280335/3	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

Analysis Batch: 280347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-3	CZ 0.5 PW (10/14/2015)	Total/NA	Water	SM 4500 CI- E	
660-69823-3 MS	CZ 0.5 PW (10/14/2015)	Total/NA	Water	SM 4500 CI- E	
660-69823-3 MSD	CZ 0.5 PW (10/14/2015)	Total/NA	Water	SM 4500 CI- E	
660-69823-6	CZ 1.5 SW (10/14/2015)	Total/NA	Water	SM 4500 CI- E	
660-69823-7	CZ 1.5 PW (10/14/2015)	Total/NA	Water	SM 4500 CI- E	
660-69823-10	CZ 2.5 SW (10/14/2015)	Total/NA	Water	SM 4500 CI- E	
660-69823-11	CZ 2.5 PW (10/14/2015)	Total/NA	Water	SM 4500 CI- E	
660-69852-1	CZ 3.5 SW (10/15/2015)	Total/NA	Water	SM 4500 CI- E	
660-69852-2	CZ 3.5 PW (10/15/2015)	Total/NA	Water	SM 4500 CI- E	
660-69852-3	CZ 4.5 SW (10/15/2015)	Total/NA	Water	SM 4500 CI- E	
660-69852-4	CZ 4.5 PW (10/15/2015)	Total/NA	Water	SM 4500 CI- E	
660-69852-5	CZ 5.5 SW (10/15/2015)	Total/NA	Water	SM 4500 CI- E	
660-69852-6	CZ 5.5 PW (10/15/2015)	Total/NA	Water	SM 4500 CI- E	
660-69852-6 MS	CZ 5.5 PW (10/15/2015)	Total/NA	Water	SM 4500 CI- E	
660-69852-6 MSD	CZ 5.5 PW (10/15/2015)	Total/NA	Water	SM 4500 CI- E	
660-69879-1	CZ 6.5 SW (10/16/2015)	Total/NA	Water	SM 4500 CI- E	
660-69879-2	CZ 6.5 PW (10/16/2015)	Total/NA	Water	SM 4500 CI- E	
660-69879-3	CZ 7.5 SW (10/16/2015)	Total/NA	Water	SM 4500 CI- E	
660-69879-4	CZ 7.5 PW (10/16/2015)	Total/NA	Water	SM 4500 CI- E	
660-69879-5	CZ 8.5 SW (10/16/2015)	Total/NA	Water	SM 4500 CI- E	
660-69879-6	CZ 8.5 PW (10/16/2015)	Total/NA	Water	SM 4500 CI- E	
660-69893-1	HM 10.5 SW (10/19/2015)	Total/NA	Water	SM 4500 CI- E	

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 280347 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-2	HM 10.5 PW (10/19/2015)	Total/NA	Water	SM 4500 CI- E	
660-69893-3	HM 9.5 SW (10/19/2015)	Total/NA	Water	SM 4500 CI- E	
LCS 400-280347/9	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
MB 400-280347/5	Method Blank	Total/NA	Water	SM 4500 CI- E	
MRL 400-280347/48	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	

Leach Batch: 280352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70002-5	HM2.0SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-6	HM1.5SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-6 MS	HM1.5SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-6 MSD	HM1.5SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-7	HM1.0SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-8	WW9.5SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-9	WW9.0SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-10	WW8.5SED(10/22/2015)	Soluble	Solid	DI Leach	
LCS 400-280352/7-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-280352/6-A	Method Blank	Soluble	Solid	DI Leach	
MRL 400-280352/3-A	Lab Control Sample	Soluble	Solid	DI Leach	

Leach Batch: 280353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70002-5	HM2.0SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-6	HM1.5SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-6 MS	HM1.5SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-6 MSD	HM1.5SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-7	HM1.0SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-8	WW9.5SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-9	WW9.0SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-10	WW8.5SED(10/22/2015)	Soluble	Solid	DI Leach	
LCS 400-280353/7-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-280353/6-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 280354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70002-5	HM2.0SED(10/22/2015)	Soluble	Solid	354.1	280352
660-70002-6	HM1.5SED(10/22/2015)	Soluble	Solid	354.1	280352
660-70002-6 MS	HM1.5SED(10/22/2015)	Soluble	Solid	354.1	280352
660-70002-6 MSD	HM1.5SED(10/22/2015)	Soluble	Solid	354.1	280352
660-70002-7	HM1.0SED(10/22/2015)	Soluble	Solid	354.1	280352
660-70002-8	WW9.5SED(10/22/2015)	Soluble	Solid	354.1	280352
660-70002-9	WW9.0SED(10/22/2015)	Soluble	Solid	354.1	280352
660-70002-10	WW8.5SED(10/22/2015)	Soluble	Solid	354.1	280352
LCS 400-280352/7-A	Lab Control Sample	Soluble	Solid	354.1	280352
MB 400-280352/6-A	Method Blank	Soluble	Solid	354.1	280352
MRL 400-280352/3-A	Lab Control Sample	Soluble	Solid	354.1	280352

Analysis Batch: 280355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70002-5	HM2.0SED(10/22/2015)	Soluble	Solid	365.1	280353
660-70002-6	HM1.5SED(10/22/2015)	Soluble	Solid	365.1	280353

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 280355 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70002-6 MS	HM1.5SED(10/22/2015)	Soluble	Solid	365.1	280353
660-70002-6 MSD	HM1.5SED(10/22/2015)	Soluble	Solid	365.1	280353
660-70002-7	HM1.0SED(10/22/2015)	Soluble	Solid	365.1	280353
660-70002-8	WW9.5SED(10/22/2015)	Soluble	Solid	365.1	280353
660-70002-9	WW9.0SED(10/22/2015)	Soluble	Solid	365.1	280353
660-70002-10	WW8.5SED(10/22/2015)	Soluble	Solid	365.1	280353
LCS 400-280353/7-A	Lab Control Sample	Soluble	Solid	365.1	280353
MB 400-280353/6-A	Method Blank	Soluble	Solid	365.1	280353

Analysis Batch: 280357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-4	HM 9.5 PW (10/19/2015)	Total/NA	Water	SM 4500 Cl- E	
660-69893-4 MS	HM 9.5 PW (10/19/2015)	Total/NA	Water	SM 4500 Cl- E	
660-69893-4 MSD	HM 9.5 PW (10/19/2015)	Total/NA	Water	SM 4500 Cl- E	
660-69919-1	HM8.5 SW (10/20/2015)	Total/NA	Water	SM 4500 Cl- E	
660-69919-2	HM8.5 PW (10/20/2015)	Total/NA	Water	SM 4500 Cl- E	
660-69919-3	HM7.5 SW (10/20/2015)	Total/NA	Water	SM 4500 Cl- E	
660-69919-4	HM7.5 PW (10/20/2015)	Total/NA	Water	SM 4500 Cl- E	
660-69919-5	HM6.5 SW (10-20-2015)	Total/NA	Water	SM 4500 Cl- E	
660-69919-6	HM6.5 PW (10-20-2015)	Total/NA	Water	SM 4500 Cl- E	
660-69919-7	HM5.5 SW (10-20-2015)	Total/NA	Water	SM 4500 Cl- E	
660-69919-8	HM5.5 PW (10-20-2015)	Total/NA	Water	SM 4500 Cl- E	
660-69919-9	HM4.5 SW(10/20/2015)	Total/NA	Water	SM 4500 Cl- E	
660-69919-10	HM4.5 PW (10-20-2015)	Total/NA	Water	SM 4500 Cl- E	
660-69919-10 MS	HM4.5 PW (10-20-2015)	Total/NA	Water	SM 4500 Cl- E	
660-69919-10 MSD	HM4.5 PW (10-20-2015)	Total/NA	Water	SM 4500 Cl- E	
660-69919-11	HM3.5 SW (10-20-2015)	Total/NA	Water	SM 4500 Cl- E	
660-69919-12	HM3.5 PW (10/20/2015)	Total/NA	Water	SM 4500 Cl- E	
660-69974-12	HM 2.5 SW (10/21/2015)	Total/NA	Water	SM 4500 Cl- E	
660-69974-13	HM 2.5 PW (10/21/2015)	Total/NA	Water	SM 4500 Cl- E	
LCS 400-280357/7	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MB 400-280357/6	Method Blank	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 280527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-5	HM 10.5 SED (10/19/2015)	Total/NA	Solid	365.4	280060
660-69893-5 MS	HM 10.5 SED (10/19/2015)	Total/NA	Solid	365.4	280060
660-69893-5 MSD	HM 10.5 SED (10/19/2015)	Total/NA	Solid	365.4	280060
660-69893-6	HM 10.0 SED (10/19/2015)	Total/NA	Solid	365.4	280060
660-69893-7	HM 9.5 SED (10/19/2015)	Total/NA	Solid	365.4	280060
660-69893-8	HM 9.0 SED (10/19/2015)	Total/NA	Solid	365.4	280060
660-69919-1	HM8.5 SW (10/20/2015)	Total/NA	Water	365.4	280254
660-69919-2	HM8.5 PW (10/20/2015)	Total/NA	Water	365.4	280254
660-69919-3	HM7.5 SW (10/20/2015)	Total/NA	Water	365.4	280254
660-69919-4	HM7.5 PW (10/20/2015)	Total/NA	Water	365.4	280254
660-69919-5	HM6.5 SW (10-20-2015)	Total/NA	Water	365.4	280254
660-69919-6	HM6.5 PW (10-20-2015)	Total/NA	Water	365.4	280254
660-69919-7	HM5.5 SW (10-20-2015)	Total/NA	Water	365.4	280254
660-69919-8	HM5.5 PW (10-20-2015)	Total/NA	Water	365.4	280254
660-69919-9	HM4.5 SW(10/20/2015)	Total/NA	Water	365.4	280254
660-69919-10	HM4.5 PW (10-20-2015)	Total/NA	Water	365.4	280254

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 280527 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-11	HM3.5 SW (10-20-2015)	Total/NA	Water	365.4	280254
660-69919-12	HM3.5 PW (10/20/2015)	Total/NA	Water	365.4	280254
660-69974-12	HM 2.5 SW (10/21/2015)	Total/NA	Water	365.4	280254
660-69974-13	HM 2.5 PW (10/21/2015)	Total/NA	Water	365.4	280254
LCS 400-280060/2-A	Lab Control Sample	Total/NA	Solid	365.4	280060
LCS 400-280254/2-A	Lab Control Sample	Total/NA	Water	365.4	280254
MB 400-280060/1-A	Method Blank	Total/NA	Solid	365.4	280060
MB 400-280254/1-A	Method Blank	Total/NA	Water	365.4	280254
MRL 400-280527/13	Lab Control Sample	Total/NA	Solid	365.4	

Analysis Batch: 280562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-13	HM8.5 SED (10/20/2015)	Total/NA	Solid	365.4	280313
660-69919-13 MS	HM8.5 SED (10/20/2015)	Total/NA	Solid	365.4	280313
660-69919-13 MSD	HM8.5 SED (10/20/2015)	Total/NA	Solid	365.4	280313
660-69974-1	HM 8.0SED (10/21/2015)	Total/NA	Solid	365.4	280313
660-69974-2	HM 7.5 SED (10/21/2015)	Total/NA	Solid	365.4	280313
660-69974-3	HM 7.0 SED (10/21/2015)	Total/NA	Solid	365.4	280313
660-69974-4	HM 6.5 SED (10/21/2015)	Total/NA	Solid	365.4	280313
660-69974-5	HM 6.0 SED (10/21/2015)	Total/NA	Solid	365.4	280313
660-69974-6	HM 5.5 SED (10/21/2015)	Total/NA	Solid	365.4	280313
660-69974-7	HM 5.0 SED (10/21/2015)	Total/NA	Solid	365.4	280313
660-69974-8	HM 4.5 SED (10/21/2015)	Total/NA	Solid	365.4	280313
660-69974-9	HM 4.0 SED (10/21/2015)	Total/NA	Solid	365.4	280313
660-69974-10	HM 3.5 SED (10/21/2015)	Total/NA	Solid	365.4	280313
660-69974-11	HM 3.0 SED (10/21/2015)	Total/NA	Solid	365.4	280313
660-69974-14	HM SED 2.5 (10/21/2015)	Total/NA	Solid	365.4	280313
LCS 400-280313/2-A	Lab Control Sample	Total/NA	Solid	365.4	280313
MB 400-280313/1-A	Method Blank	Total/NA	Solid	365.4	280313
MRL 400-280562/26	Lab Control Sample	Total/NA	Solid	365.4	

Analysis Batch: 280655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-1	HM 10.5 SW (10/19/2015)	Total/NA	Water	351.2	280026
660-69893-2	HM 10.5 PW (10/19/2015)	Total/NA	Water	351.2	280026
660-69893-3	HM 9.5 SW (10/19/2015)	Total/NA	Water	351.2	280026
660-69893-4	HM 9.5 PW (10/19/2015)	Total/NA	Water	351.2	280026
660-69893-5	HM 10.5 SED (10/19/2015)	Total/NA	Solid	351.2	280056
660-69893-5 MS	HM 10.5 SED (10/19/2015)	Total/NA	Solid	351.2	280056
660-69893-5 MSD	HM 10.5 SED (10/19/2015)	Total/NA	Solid	351.2	280056
660-69893-6	HM 10.0 SED (10/19/2015)	Total/NA	Solid	351.2	280056
660-69893-7	HM 9.5 SED (10/19/2015)	Total/NA	Solid	351.2	280056
LCS 400-280026/2-A	Lab Control Sample	Total/NA	Water	351.2	280026
LCS 400-280056/2-A	Lab Control Sample	Total/NA	Solid	351.2	280056
MB 400-280026/1-A	Method Blank	Total/NA	Water	351.2	280026
MB 400-280056/1-A	Method Blank	Total/NA	Solid	351.2	280056
MRL 400-280655/11	Lab Control Sample	Total/NA	Solid	351.2	

Leach Batch: 280671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70026-5	WW8.0SED(10/23/2015)	Soluble	Solid	DI Leach	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Leach Batch: 280671 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70026-5 MS	WW8.0SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-5 MSD	WW8.0SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-6	WW7.5SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-7	WW7.0SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-8	WW6.5SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-9	WW6.0SED(10/23/2015)	Soluble	Solid	DI Leach	
LCS 400-280671/7-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-280671/6-A	Method Blank	Soluble	Solid	DI Leach	

Leach Batch: 280672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70026-5	WW8.0SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-5 MS	WW8.0SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-5 MSD	WW8.0SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-6	WW7.5SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-7	WW7.0SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-8	WW6.5SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-9	WW6.0SED(10/23/2015)	Soluble	Solid	DI Leach	
LCS 400-280672/7-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-280672/6-A	Method Blank	Soluble	Solid	DI Leach	
MRL 400-280672/3-A	Lab Control Sample	Soluble	Solid	DI Leach	

Analysis Batch: 280682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69893-8	HM 9.0 SED (10/19/2015)	Total/NA	Solid	351.2	280056
660-69919-1	HM8.5 SW (10/20/2015)	Total/NA	Water	351.2	280253
660-69919-2	HM8.5 PW (10/20/2015)	Total/NA	Water	351.2	280253
660-69919-3	HM7.5 SW (10/20/2015)	Total/NA	Water	351.2	280253
660-69919-4	HM7.5 PW (10/20/2015)	Total/NA	Water	351.2	280253
660-69919-5	HM6.5 SW (10-20-2015)	Total/NA	Water	351.2	280253
660-69919-6	HM6.5 PW (10-20-2015)	Total/NA	Water	351.2	280253
660-69919-7	HM5.5 SW (10-20-2015)	Total/NA	Water	351.2	280253
660-69919-8	HM5.5 PW (10-20-2015)	Total/NA	Water	351.2	280253
660-69919-9	HM4.5 SW(10/20/2015)	Total/NA	Water	351.2	280253
660-69919-10	HM4.5 PW (10-20-2015)	Total/NA	Water	351.2	280253
660-69919-11	HM3.5 SW (10-20-2015)	Total/NA	Water	351.2	280253
660-69919-12	HM3.5 PW (10/20/2015)	Total/NA	Water	351.2	280253
660-69919-13	HM8.5 SED (10/20/2015)	Total/NA	Solid	351.2	280312
660-69919-13 MS	HM8.5 SED (10/20/2015)	Total/NA	Solid	351.2	280312
660-69919-13 MSD	HM8.5 SED (10/20/2015)	Total/NA	Solid	351.2	280312
660-69974-1	HM 8.0SED (10/21/2015)	Total/NA	Solid	351.2	280312
660-69974-2	HM 7.5 SED (10/21/2015)	Total/NA	Solid	351.2	280312
660-69974-3	HM 7.0 SED (10/21/2015)	Total/NA	Solid	351.2	280312
660-69974-4	HM 6.5 SED (10/21/2015)	Total/NA	Solid	351.2	280312
660-69974-5	HM 6.0 SED (10/21/2015)	Total/NA	Solid	351.2	280312
660-69974-6	HM 5.5 SED (10/21/2015)	Total/NA	Solid	351.2	280312
660-69974-7	HM 5.0 SED (10/21/2015)	Total/NA	Solid	351.2	280312
660-69974-8	HM 4.5 SED (10/21/2015)	Total/NA	Solid	351.2	280312
660-69974-9	HM 4.0 SED (10/21/2015)	Total/NA	Solid	351.2	280312
660-69974-10	HM 3.5 SED (10/21/2015)	Total/NA	Solid	351.2	280312
660-69974-12	HM 2.5 SW (10/21/2015)	Total/NA	Water	351.2	280253

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 280682 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-13	HM 2.5 PW (10/21/2015)	Total/NA	Water	351.2	280253
660-69974-14	HM SED 2.5 (10/21/2015)	Total/NA	Solid	351.2	280312
LCS 400-280253/2-A	Lab Control Sample	Total/NA	Water	351.2	280253
LCS 400-280312/2-A	Lab Control Sample	Total/NA	Solid	351.2	280312
MB 400-280253/1-A	Method Blank	Total/NA	Water	351.2	280253
MB 400-280312/1-A	Method Blank	Total/NA	Solid	351.2	280312
MRL 400-280682/11	Lab Control Sample	Total/NA	Solid	351.2	

Prep Batch: 280732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70002-1	HM1.5 SW(10/22/2015)	Total/NA	Water	351.2	
660-70002-2	HM1.5 PW(10/22/2015)	Total/NA	Water	351.2	
660-70002-3	WW8.5SW(10/22/2015)	Total/NA	Water	351.2	
660-70002-4	WW8.5PW(10/22/2015)	Total/NA	Water	351.2	
660-70026-1	WW7.5SW(10/23/2015)	Total/NA	Water	351.2	
660-70026-2	WW7.5 PW(10/23/2015)	Total/NA	Water	351.2	
660-70026-3	WW6.5SW(10/23/2015)	Total/NA	Water	351.2	
660-70026-4	WW6.5PW(10/23/2015)	Total/NA	Water	351.2	
LCS 400-280732/2-A	Lab Control Sample	Total/NA	Water	351.2	
MB 400-280732/1-A	Method Blank	Total/NA	Water	351.2	

Prep Batch: 280734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70002-1	HM1.5 SW(10/22/2015)	Total/NA	Water	365.2/365.3/365	
660-70002-2	HM1.5 PW(10/22/2015)	Total/NA	Water	365.2/365.3/365	
660-70002-3	WW8.5SW(10/22/2015)	Total/NA	Water	365.2/365.3/365	
660-70002-4	WW8.5PW(10/22/2015)	Total/NA	Water	365.2/365.3/365	
660-70026-1	WW7.5SW(10/23/2015)	Total/NA	Water	365.2/365.3/365	
660-70026-2	WW7.5 PW(10/23/2015)	Total/NA	Water	365.2/365.3/365	
660-70026-3	WW6.5SW(10/23/2015)	Total/NA	Water	365.2/365.3/365	
660-70026-4	WW6.5PW(10/23/2015)	Total/NA	Water	365.2/365.3/365	
LCS 400-280734/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
MB 400-280734/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	

Prep Batch: 280738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70002-5	HM2.0SED(10/22/2015)	Total/NA	Solid	351.2	
660-70002-5 MS	HM2.0SED(10/22/2015)	Total/NA	Solid	351.2	
660-70002-5 MSD	HM2.0SED(10/22/2015)	Total/NA	Solid	351.2	
660-70002-6	HM1.5SED(10/22/2015)	Total/NA	Solid	351.2	
660-70002-7	HM1.0SED(10/22/2015)	Total/NA	Solid	351.2	
660-70002-8	WW9.5SED(10/22/2015)	Total/NA	Solid	351.2	
660-70002-9	WW9.0SED(10/22/2015)	Total/NA	Solid	351.2	
660-70002-10	WW8.5SED(10/22/2015)	Total/NA	Solid	351.2	
660-70026-5	WW8.0SED(10/23/2015)	Total/NA	Solid	351.2	
660-70026-7	WW7.0SED(10/23/2015)	Total/NA	Solid	351.2	
660-70026-8	WW6.5SED(10/23/2015)	Total/NA	Solid	351.2	
660-70026-9	WW6.0SED(10/23/2015)	Total/NA	Solid	351.2	
LCS 400-280738/2-A	Lab Control Sample	Total/NA	Solid	351.2	
MB 400-280738/1-A	Method Blank	Total/NA	Solid	351.2	

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Prep Batch: 280741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70002-5	HM2.0SED(10/22/2015)	Total/NA	Solid	365.2/365.3/365	
660-70002-5 MS	HM2.0SED(10/22/2015)	Total/NA	Solid	365.2/365.3/365	
660-70002-5 MSD	HM2.0SED(10/22/2015)	Total/NA	Solid	365.2/365.3/365	
660-70002-6	HM1.5SED(10/22/2015)	Total/NA	Solid	365.2/365.3/365	
660-70002-7	HM1.0SED(10/22/2015)	Total/NA	Solid	365.2/365.3/365	
660-70002-8	WW9.5SED(10/22/2015)	Total/NA	Solid	365.2/365.3/365	
660-70002-9	WW9.0SED(10/22/2015)	Total/NA	Solid	365.2/365.3/365	
660-70002-10	WW8.5SED(10/22/2015)	Total/NA	Solid	365.2/365.3/365	
660-70026-5	WW8.0SED(10/23/2015)	Total/NA	Solid	365.2/365.3/365	
660-70026-7	WW7.0SED(10/23/2015)	Total/NA	Solid	365.2/365.3/365	
660-70026-8	WW6.5SED(10/23/2015)	Total/NA	Solid	365.2/365.3/365	
660-70026-9	WW6.0SED(10/23/2015)	Total/NA	Solid	365.2/365.3/365	
LCS 400-280741/2-A	Lab Control Sample	Total/NA	Solid	365.2/365.3/365	
MB 400-280741/1-A	Method Blank	Total/NA	Solid	365.2/365.3/365	

Analysis Batch: 280774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-2	CZ 0.5 SW (10/14/2015)	Total/NA	Water	350.1	
660-69823-3	CZ 0.5 PW (10/14/2015)	Total/NA	Water	350.1	
660-69823-6	CZ 1.5 SW (10/14/2015)	Total/NA	Water	350.1	
660-69823-7	CZ 1.5 PW (10/14/2015)	Total/NA	Water	350.1	
LCS 400-280774/17	Lab Control Sample	Total/NA	Water	350.1	
MB 400-280774/16	Method Blank	Total/NA	Water	350.1	
MRL 400-280774/11	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 280782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70026-5	WW8.0SED(10/23/2015)	Soluble	Solid	365.1	280671
660-70026-5 MS	WW8.0SED(10/23/2015)	Soluble	Solid	365.1	280671
660-70026-5 MSD	WW8.0SED(10/23/2015)	Soluble	Solid	365.1	280671
660-70026-6	WW7.5SED(10/23/2015)	Soluble	Solid	365.1	280671
660-70026-7	WW7.0SED(10/23/2015)	Soluble	Solid	365.1	280671
660-70026-8	WW6.5SED(10/23/2015)	Soluble	Solid	365.1	280671
660-70026-9	WW6.0SED(10/23/2015)	Soluble	Solid	365.1	280671
LCS 400-280671/7-A	Lab Control Sample	Soluble	Solid	365.1	280671
MB 400-280671/6-A	Method Blank	Soluble	Solid	365.1	280671

Analysis Batch: 280790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-10	CZ 2.5 SW (10/14/2015)	Total/NA	Water	350.1	
660-69823-11	CZ 2.5 PW (10/14/2015)	Total/NA	Water	350.1	
660-69852-1	CZ 3.5 SW (10/15/2015)	Total/NA	Water	350.1	
660-69852-2	CZ 3.5 PW (10/15/2015)	Total/NA	Water	350.1	
660-69852-3	CZ 4.5 SW (10/15/2015)	Total/NA	Water	350.1	
660-69852-4	CZ 4.5 PW (10/15/2015)	Total/NA	Water	350.1	
660-69852-5	CZ 5.5 SW (10/15/2015)	Total/NA	Water	350.1	
660-69852-6	CZ 5.5 PW (10/15/2015)	Total/NA	Water	350.1	
LCS 400-280790/9	Lab Control Sample	Total/NA	Water	350.1	
MB 400-280790/8	Method Blank	Total/NA	Water	350.1	
MRL 400-280790/3	Lab Control Sample	Total/NA	Water	350.1	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 280853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70026-5	WW8.0SED(10/23/2015)	Soluble	Solid	354.1	280672
660-70026-5 MS	WW8.0SED(10/23/2015)	Soluble	Solid	354.1	280672
660-70026-5 MSD	WW8.0SED(10/23/2015)	Soluble	Solid	354.1	280672
660-70026-6	WW7.5SED(10/23/2015)	Soluble	Solid	354.1	280672
660-70026-7	WW7.0SED(10/23/2015)	Soluble	Solid	354.1	280672
660-70026-8	WW6.5SED(10/23/2015)	Soluble	Solid	354.1	280672
660-70026-9	WW6.0SED(10/23/2015)	Soluble	Solid	354.1	280672
LCS 400-280672/7-A	Lab Control Sample	Soluble	Solid	354.1	280672
MB 400-280672/6-A	Method Blank	Soluble	Solid	354.1	280672
MRL 400-280672/3-A	Lab Control Sample	Soluble	Solid	354.1	280672

Analysis Batch: 280919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-13	HM8.5 SED (10/20/2015)	Total/NA	Solid	Moisture	

Leach Batch: 280924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-1	WW5.5 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-1 MS	WW5.5 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-1 MSD	WW5.5 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-2	WW5.25 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-3	WW5.0 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-4	WW4.5 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-5	WW4.0 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-6	WW3.5 SED (10/26/2015)	Soluble	Solid	DI Leach	
LCS 400-280924/7-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-280924/6-A	Method Blank	Soluble	Solid	DI Leach	
MRL 400-280924/3-A	Lab Control Sample	Soluble	Solid	DI Leach	

Leach Batch: 280925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-1	WW5.5 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-1 MS	WW5.5 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-1 MSD	WW5.5 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-2	WW5.25 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-3	WW5.0 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-4	WW4.5 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-5	WW4.0 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-6	WW3.5 SED (10/26/2015)	Soluble	Solid	DI Leach	
LCS 400-280925/7-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-280925/6-A	Method Blank	Soluble	Solid	DI Leach	

Prep Batch: 280976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-7	WW5.5 SW (10/26/2015)	Total/NA	Water	351.2	
660-70053-8	WW5.5 PW (10/26/2015)	Total/NA	Water	351.2	
660-70053-9	WW5.25 SW (10/26/2015)	Total/NA	Water	351.2	
660-70053-10	WW5.25 PW (10/26/2015)	Total/NA	Water	351.2	
660-70053-11	WW4.5 SW (10/26/2015)	Total/NA	Water	351.2	
660-70053-12	WW4.5 PW (10/26/2015)	Total/NA	Water	351.2	
660-70053-13	WW3.5 SW (10/26/2015)	Total/NA	Water	351.2	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Prep Batch: 280976 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-14	WW3.5 PW (10/26/2015)	Total/NA	Water	351.2	
LCS 400-280976/2-A	Lab Control Sample	Total/NA	Water	351.2	
MB 400-280976/1-A	Method Blank	Total/NA	Water	351.2	

Prep Batch: 280978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-7	WW5.5 SW (10/26/2015)	Total/NA	Water	365.2/365.3/365	
660-70053-8	WW5.5 PW (10/26/2015)	Total/NA	Water	365.2/365.3/365	
660-70053-9	WW5.25 SW (10/26/2015)	Total/NA	Water	365.2/365.3/365	
660-70053-10	WW5.25 PW (10/26/2015)	Total/NA	Water	365.2/365.3/365	
660-70053-11	WW4.5 SW (10/26/2015)	Total/NA	Water	365.2/365.3/365	
660-70053-12	WW4.5 PW (10/26/2015)	Total/NA	Water	365.2/365.3/365	
660-70053-13	WW3.5 SW (10/26/2015)	Total/NA	Water	365.2/365.3/365	
660-70053-14	WW3.5 PW (10/26/2015)	Total/NA	Water	365.2/365.3/365	
LCS 400-280978/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
MB 400-280978/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 280980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-3	HM7.5 SW (10/20/2015)	Total/NA	Water	353.2	
660-69919-3 MS	HM7.5 SW (10/20/2015)	Total/NA	Water	353.2	
660-69919-3 MSD	HM7.5 SW (10/20/2015)	Total/NA	Water	353.2	
660-69919-4	HM7.5 PW (10/20/2015)	Total/NA	Water	353.2	
660-69919-5	HM6.5 SW (10-20-2015)	Total/NA	Water	353.2	
660-69919-6	HM6.5 PW (10-20-2015)	Total/NA	Water	353.2	
660-69919-7	HM5.5 SW (10-20-2015)	Total/NA	Water	353.2	
660-69919-8	HM5.5 PW (10-20-2015)	Total/NA	Water	353.2	
660-69919-9	HM4.5 SW(10/20/2015)	Total/NA	Water	353.2	
660-69919-10	HM4.5 PW (10-20-2015)	Total/NA	Water	353.2	
660-69919-11	HM3.5 SW (10-20-2015)	Total/NA	Water	353.2	
660-69919-12	HM3.5 PW (10/20/2015)	Total/NA	Water	353.2	
LCS 400-280980/16	Lab Control Sample	Total/NA	Water	353.2	
MB 400-280980/15	Method Blank	Total/NA	Water	353.2	
MRL 400-280980/13	Lab Control Sample	Total/NA	Water	353.2	

Prep Batch: 281006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-1	WW5.5 SED (10/26/2015)	Total/NA	Solid	351.2	
660-70053-2	WW5.25 SED (10/26/2015)	Total/NA	Solid	351.2	
660-70053-3	WW5.0 SED (10/26/2015)	Total/NA	Solid	351.2	
660-70053-4	WW4.5 SED (10/26/2015)	Total/NA	Solid	351.2	
660-70053-5	WW4.0 SED (10/26/2015)	Total/NA	Solid	351.2	
660-70053-6	WW3.5 SED (10/26/2015)	Total/NA	Solid	351.2	
LCS 400-281006/2-A	Lab Control Sample	Total/NA	Solid	351.2	
MB 400-281006/1-A	Method Blank	Total/NA	Solid	351.2	

Analysis Batch: 281007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-1	WW5.5 SED (10/26/2015)	Soluble	Solid	354.1	280924
660-70053-1 MS	WW5.5 SED (10/26/2015)	Soluble	Solid	354.1	280924
660-70053-1 MSD	WW5.5 SED (10/26/2015)	Soluble	Solid	354.1	280924

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 281007 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-2	WW5.25 SED (10/26/2015)	Soluble	Solid	354.1	280924
660-70053-3	WW5.0 SED (10/26/2015)	Soluble	Solid	354.1	280924
660-70053-4	WW 4.5 SED (10/26/2015)	Soluble	Solid	354.1	280924
660-70053-5	WW4.0 SED (10/26/2015)	Soluble	Solid	354.1	280924
660-70053-6	WW3.5 SED (10/26/2015)	Soluble	Solid	354.1	280924
LCS 400-280924/7-A	Lab Control Sample	Soluble	Solid	354.1	280924
MB 400-280924/6-A	Method Blank	Soluble	Solid	354.1	280924
MRL 400-280924/3-A	Lab Control Sample	Soluble	Solid	354.1	280924

Analysis Batch: 281008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-1	WW5.5 SED (10/26/2015)	Soluble	Solid	365.1	280925
660-70053-1 MS	WW5.5 SED (10/26/2015)	Soluble	Solid	365.1	280925
660-70053-1 MSD	WW5.5 SED (10/26/2015)	Soluble	Solid	365.1	280925
660-70053-2	WW5.25 SED (10/26/2015)	Soluble	Solid	365.1	280925
660-70053-3	WW5.0 SED (10/26/2015)	Soluble	Solid	365.1	280925
660-70053-4	WW 4.5 SED (10/26/2015)	Soluble	Solid	365.1	280925
660-70053-5	WW4.0 SED (10/26/2015)	Soluble	Solid	365.1	280925
660-70053-6	WW3.5 SED (10/26/2015)	Soluble	Solid	365.1	280925
LCS 400-280925/7-A	Lab Control Sample	Soluble	Solid	365.1	280925
MB 400-280925/6-A	Method Blank	Soluble	Solid	365.1	280925

Prep Batch: 281010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-1	WW5.5 SED (10/26/2015)	Total/NA	Solid	365.2/365.3/365	
660-70053-2	WW5.25 SED (10/26/2015)	Total/NA	Solid	365.2/365.3/365	
660-70053-3	WW5.0 SED (10/26/2015)	Total/NA	Solid	365.2/365.3/365	
660-70053-4	WW 4.5 SED (10/26/2015)	Total/NA	Solid	365.2/365.3/365	
660-70053-5	WW4.0 SED (10/26/2015)	Total/NA	Solid	365.2/365.3/365	
660-70053-6	WW3.5 SED (10/26/2015)	Total/NA	Solid	365.2/365.3/365	
LCS 400-281010/2-A	Lab Control Sample	Total/NA	Solid	365.2/365.3/365	
MB 400-281010/1-A	Method Blank	Total/NA	Solid	365.2/365.3/365	

Analysis Batch: 281012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-12	HM 2.5 SW (10/21/2015)	Total/NA	Water	353.2	
660-69974-13	HM 2.5 PW (10/21/2015)	Total/NA	Water	353.2	
660-70002-1	HM1.5 SW(10/22/2015)	Total/NA	Water	353.2	
660-70002-2	HM1.5 PW(10/22/2015)	Total/NA	Water	353.2	
660-70002-3	WW8.5SW(10/22/2015)	Total/NA	Water	353.2	
660-70002-4	WW8.5PW(10/22/2015)	Total/NA	Water	353.2	
LCS 400-281012/9	Lab Control Sample	Total/NA	Water	353.2	
MB 400-281012/8	Method Blank	Total/NA	Water	353.2	
MRL 400-281012/6	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 281013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70002-1	HM1.5 SW(10/22/2015)	Total/NA	Water	351.2	280732
660-70002-2	HM1.5 PW(10/22/2015)	Total/NA	Water	351.2	280732
660-70002-3	WW8.5SW(10/22/2015)	Total/NA	Water	351.2	280732
660-70002-4	WW8.5PW(10/22/2015)	Total/NA	Water	351.2	280732

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 281013 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70026-1	WW7.5SW(10/23/2015)	Total/NA	Water	351.2	280732
660-70026-2	WW7.5 PW(10/23/2015)	Total/NA	Water	351.2	280732
660-70026-3	WW6.5SW(10/23/2015)	Total/NA	Water	351.2	280732
660-70026-4	WW6.5PW(10/23/2015)	Total/NA	Water	351.2	280732
LCS 400-280732/2-A	Lab Control Sample	Total/NA	Water	351.2	280732
MB 400-280732/1-A	Method Blank	Total/NA	Water	351.2	280732
MRL 400-281013/11	Lab Control Sample	Total/NA	Water	351.2	

Analysis Batch: 281105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70002-5	HM2.0SED(10/22/2015)	Total/NA	Solid	351.2	280738
660-70002-5 MS	HM2.0SED(10/22/2015)	Total/NA	Solid	351.2	280738
660-70002-5 MSD	HM2.0SED(10/22/2015)	Total/NA	Solid	351.2	280738
660-70002-6	HM1.5SED(10/22/2015)	Total/NA	Solid	351.2	280738
660-70002-7	HM1.0SED(10/22/2015)	Total/NA	Solid	351.2	280738
660-70002-8	WW9.5SED(10/22/2015)	Total/NA	Solid	351.2	280738
660-70002-9	WW9.0SED(10/22/2015)	Total/NA	Solid	351.2	280738
660-70002-10	WW8.5SED(10/22/2015)	Total/NA	Solid	351.2	280738
660-70026-5	WW8.0SED(10/23/2015)	Total/NA	Solid	351.2	280738
660-70026-7	WW7.0SED(10/23/2015)	Total/NA	Solid	351.2	280738
660-70026-8	WW6.5SED(10/23/2015)	Total/NA	Solid	351.2	280738
660-70026-9	WW6.0SED(10/23/2015)	Total/NA	Solid	351.2	280738
LCS 400-280738/2-A	Lab Control Sample	Total/NA	Solid	351.2	280738
MB 400-280738/1-A	Method Blank	Total/NA	Solid	351.2	280738
MRL 400-281105/11	Lab Control Sample	Total/NA	Solid	351.2	

Analysis Batch: 281116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-2	CZ 0.5 SW (10/14/2015)	Total/NA	Water	353.2	
660-69823-3	CZ 0.5 PW (10/14/2015)	Total/NA	Water	353.2	
660-69823-6	CZ 1.5 SW (10/14/2015)	Total/NA	Water	353.2	
660-69823-7	CZ 1.5 PW (10/14/2015)	Total/NA	Water	353.2	
660-69823-10	CZ 2.5 SW (10/14/2015)	Total/NA	Water	353.2	
660-69823-11	CZ 2.5 PW (10/14/2015)	Total/NA	Water	353.2	
660-69852-1	CZ 3.5 SW (10/15/2015)	Total/NA	Water	353.2	
660-69852-1 MS	CZ 3.5 SW (10/15/2015)	Total/NA	Water	353.2	
660-69852-1 MSD	CZ 3.5 SW (10/15/2015)	Total/NA	Water	353.2	
660-69852-2	CZ 3.5 PW (10/15/2015)	Total/NA	Water	353.2	
660-69852-3	CZ 4.5 SW (10/15/2015)	Total/NA	Water	353.2	
660-69852-4	CZ 4.5 PW (10/15/2015)	Total/NA	Water	353.2	
660-69852-5	CZ 5.5 SW (10/15/2015)	Total/NA	Water	353.2	
660-69852-6	CZ 5.5 PW (10/15/2015)	Total/NA	Water	353.2	
660-69879-1	CZ 6.5 SW (10/16/2015)	Total/NA	Water	353.2	
660-69879-2	CZ 6.5 PW (10/16/2015)	Total/NA	Water	353.2	
660-69879-3	CZ 7.5 SW (10/16/2015)	Total/NA	Water	353.2	
660-69879-4	CZ 7.5 PW (10/16/2015)	Total/NA	Water	353.2	
LCS 400-281116/16	Lab Control Sample	Total/NA	Water	353.2	
MB 400-281116/15	Method Blank	Total/NA	Water	353.2	
MRL 400-281116/13	Lab Control Sample	Total/NA	Water	353.2	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Leach Batch: 281122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-5	WW3.0 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-5 MS	WW3.0 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-5 MSD	WW3.0 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-6	WW2.5 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-7	WW2.0 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-8	WW1.5 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-9	WW1.0 SED (10/27/2015)	Soluble	Solid	DI Leach	
LCS 400-281122/7-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-281122/6-A	Method Blank	Soluble	Solid	DI Leach	
MRL 400-281122/3-A	Lab Control Sample	Soluble	Solid	DI Leach	

Leach Batch: 281123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-5	WW3.0 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-5 MS	WW3.0 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-5 MSD	WW3.0 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-6	WW2.5 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-7	WW2.0 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-8	WW1.5 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-9	WW1.0 SED (10/27/2015)	Soluble	Solid	DI Leach	
LCS 400-281123/7-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-281123/6-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 281126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69879-5	CZ 8.5 SW (10/16/2015)	Total/NA	Water	353.2	
660-69879-5 MS	CZ 8.5 SW (10/16/2015)	Total/NA	Water	353.2	
660-69879-5 MSD	CZ 8.5 SW (10/16/2015)	Total/NA	Water	353.2	
660-69879-6	CZ 8.5 PW (10/16/2015)	Total/NA	Water	353.2	
660-69893-1	HM 10.5 SW (10/19/2015)	Total/NA	Water	353.2	
660-69893-2	HM 10.5 PW (10/19/2015)	Total/NA	Water	353.2	
660-69893-3	HM 9.5 SW (10/19/2015)	Total/NA	Water	353.2	
660-69893-4	HM 9.5 PW (10/19/2015)	Total/NA	Water	353.2	
660-69919-1	HM8.5 SW (10/20/2015)	Total/NA	Water	353.2	
660-69919-2	HM8.5 PW (10/20/2015)	Total/NA	Water	353.2	
660-70026-1	WW7.5SW(10/23/2015)	Total/NA	Water	353.2	
660-70026-2	WW7.5 PW(10/23/2015)	Total/NA	Water	353.2	
660-70026-3	WW6.5SW(10/23/2015)	Total/NA	Water	353.2	
660-70026-3 MS	WW6.5SW(10/23/2015)	Total/NA	Water	353.2	
660-70026-3 MSD	WW6.5SW(10/23/2015)	Total/NA	Water	353.2	
660-70026-4	WW6.5PW(10/23/2015)	Total/NA	Water	353.2	
660-70053-7	WW5.5 SW (10/26/2015)	Total/NA	Water	353.2	
660-70053-8	WW5.5 PW (10/26/2015)	Total/NA	Water	353.2	
660-70053-9	WW5.25 SW (10/26/2015)	Total/NA	Water	353.2	
660-70053-10	WW5.25 PW (10/26/2015)	Total/NA	Water	353.2	
660-70053-11	WW4.5 SW (10/26/2015)	Total/NA	Water	353.2	
660-70053-12	WW4.5 PW (10/26/2015)	Total/NA	Water	353.2	
660-70053-13	WW3.5 SW (10/26/2015)	Total/NA	Water	353.2	
660-70053-14	WW3.5 PW (10/26/2015)	Total/NA	Water	353.2	
LCS 400-281126/9	Lab Control Sample	Total/NA	Water	353.2	
MB 400-281126/8	Method Blank	Total/NA	Water	353.2	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 281126 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 400-281126/6	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 281128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70002-1	HM1.5 SW(10/22/2015)	Total/NA	Water	365.4	280734
660-70002-2	HM1.5 PW(10/22/2015)	Total/NA	Water	365.4	280734
660-70002-3	WW8.5SW(10/22/2015)	Total/NA	Water	365.4	280734
660-70002-4	WW8.5PW(10/22/2015)	Total/NA	Water	365.4	280734
660-70026-1	WW7.5SW(10/23/2015)	Total/NA	Water	365.4	280734
660-70026-2	WW7.5 PW(10/23/2015)	Total/NA	Water	365.4	280734
660-70026-3	WW6.5SW(10/23/2015)	Total/NA	Water	365.4	280734
660-70026-4	WW6.5PW(10/23/2015)	Total/NA	Water	365.4	280734
LCS 400-280734/2-A	Lab Control Sample	Total/NA	Water	365.4	280734
MB 400-280734/1-A	Method Blank	Total/NA	Water	365.4	280734
MRL 400-281128/13	Lab Control Sample	Total/NA	Water	365.4	

Analysis Batch: 281158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70002-5	HM2.0SED(10/22/2015)	Total/NA	Solid	365.4	280741
660-70002-5 MS	HM2.0SED(10/22/2015)	Total/NA	Solid	365.4	280741
660-70002-5 MSD	HM2.0SED(10/22/2015)	Total/NA	Solid	365.4	280741
660-70002-6	HM1.5SED(10/22/2015)	Total/NA	Solid	365.4	280741
660-70002-7	HM1.0SED(10/22/2015)	Total/NA	Solid	365.4	280741
660-70002-8	WW9.5SED(10/22/2015)	Total/NA	Solid	365.4	280741
660-70002-9	WW9.0SED(10/22/2015)	Total/NA	Solid	365.4	280741
660-70002-10	WW8.5SED(10/22/2015)	Total/NA	Solid	365.4	280741
660-70026-5	WW8.0SED(10/23/2015)	Total/NA	Solid	365.4	280741
660-70026-7	WW7.0SED(10/23/2015)	Total/NA	Solid	365.4	280741
660-70026-8	WW6.5SED(10/23/2015)	Total/NA	Solid	365.4	280741
660-70026-9	WW6.0SED(10/23/2015)	Total/NA	Solid	365.4	280741
LCS 400-280741/2-A	Lab Control Sample	Total/NA	Solid	365.4	280741
MB 400-280741/1-A	Method Blank	Total/NA	Solid	365.4	280741
MRL 400-281158/13	Lab Control Sample	Total/NA	Solid	365.4	

Analysis Batch: 281169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69879-1	CZ 6.5 SW (10/16/2015)	Total/NA	Water	350.1	
660-69879-2	CZ 6.5 PW (10/16/2015)	Total/NA	Water	350.1	
660-69879-3	CZ 7.5 SW (10/16/2015)	Total/NA	Water	350.1	
LCS 400-281169/17	Lab Control Sample	Total/NA	Water	350.1	
MB 400-281169/16	Method Blank	Total/NA	Water	350.1	
MRL 400-281169/11	Lab Control Sample	Total/NA	Water	350.1	

Prep Batch: 281198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70026-6	WW7.5SED(10/23/2015)	Total/NA	Solid	351.2	
660-70082-5	WW3.0 SED (10/27/2015)	Total/NA	Solid	351.2	
660-70082-5 MS	WW3.0 SED (10/27/2015)	Total/NA	Solid	351.2	
660-70082-5 MSD	WW3.0 SED (10/27/2015)	Total/NA	Solid	351.2	
660-70082-6	WW2.5 SED (10/27/2015)	Total/NA	Solid	351.2	
660-70082-7	WW2.0 SED (10/27/2015)	Total/NA	Solid	351.2	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Prep Batch: 281198 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-8	WW1.5 SED (10/27/2015)	Total/NA	Solid	351.2	
660-70082-9	WW1.0 SED (10/27/2015)	Total/NA	Solid	351.2	
LCS 400-281198/2-A	Lab Control Sample	Total/NA	Solid	351.2	
MB 400-281198/1-A	Method Blank	Total/NA	Solid	351.2	

Prep Batch: 281199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70026-6	WW7.5SED(10/23/2015)	Total/NA	Solid	365.2/365.3/365	
660-70082-5	WW3.0 SED (10/27/2015)	Total/NA	Solid	365.2/365.3/365	
660-70082-5 MS	WW3.0 SED (10/27/2015)	Total/NA	Solid	365.2/365.3/365	
660-70082-5 MSD	WW3.0 SED (10/27/2015)	Total/NA	Solid	365.2/365.3/365	
660-70082-6	WW2.5 SED (10/27/2015)	Total/NA	Solid	365.2/365.3/365	
660-70082-7	WW2.0 SED (10/27/2015)	Total/NA	Solid	365.2/365.3/365	
660-70082-8	WW1.5 SED (10/27/2015)	Total/NA	Solid	365.2/365.3/365	
660-70082-9	WW1.0 SED (10/27/2015)	Total/NA	Solid	365.2/365.3/365	
LCS 400-281199/2-A	Lab Control Sample	Total/NA	Solid	365.2/365.3/365	
MB 400-281199/1-A	Method Blank	Total/NA	Solid	365.2/365.3/365	

Analysis Batch: 281200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69879-4	CZ 7.5 PW (10/16/2015)	Total/NA	Water	350.1	
660-69879-4 MS	CZ 7.5 PW (10/16/2015)	Total/NA	Water	350.1	
660-69879-4 MSD	CZ 7.5 PW (10/16/2015)	Total/NA	Water	350.1	
660-69879-5	CZ 8.5 SW (10/16/2015)	Total/NA	Water	350.1	
660-69879-6	CZ 8.5 PW (10/16/2015)	Total/NA	Water	350.1	
660-69893-1	HM 10.5 SW (10/19/2015)	Total/NA	Water	350.1	
660-69893-2	HM 10.5 PW (10/19/2015)	Total/NA	Water	350.1	
660-69893-3	HM 9.5 SW (10/19/2015)	Total/NA	Water	350.1	
660-69893-4	HM 9.5 PW (10/19/2015)	Total/NA	Water	350.1	
660-69919-1	HM8.5 SW (10/20/2015)	Total/NA	Water	350.1	
660-69919-2	HM8.5 PW (10/20/2015)	Total/NA	Water	350.1	
660-69919-3	HM7.5 SW (10/20/2015)	Total/NA	Water	350.1	
660-69919-4	HM7.5 PW (10/20/2015)	Total/NA	Water	350.1	
660-69919-4 MS	HM7.5 PW (10/20/2015)	Total/NA	Water	350.1	
660-69919-4 MSD	HM7.5 PW (10/20/2015)	Total/NA	Water	350.1	
660-69919-5	HM6.5 SW (10-20-2015)	Total/NA	Water	350.1	
660-69919-6	HM6.5 PW (10-20-2015)	Total/NA	Water	350.1	
660-69919-7	HM5.5 SW (10-20-2015)	Total/NA	Water	350.1	
660-69919-8	HM5.5 PW (10-20-2015)	Total/NA	Water	350.1	
660-69919-9	HM4.5 SW(10/20/2015)	Total/NA	Water	350.1	
660-69919-10	HM4.5 PW (10-20-2015)	Total/NA	Water	350.1	
660-69919-11	HM3.5 SW (10-20-2015)	Total/NA	Water	350.1	
660-69919-12	HM3.5 PW (10/20/2015)	Total/NA	Water	350.1	
660-69974-12	HM 2.5 SW (10/21/2015)	Total/NA	Water	350.1	
LCS 400-281200/9	Lab Control Sample	Total/NA	Water	350.1	
MB 400-281200/8	Method Blank	Total/NA	Water	350.1	
MRL 400-281200/3	Lab Control Sample	Total/NA	Water	350.1	

Prep Batch: 281201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-1	WW2.5 SW (10/27/2015)	Total/NA	Water	351.2	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Prep Batch: 281201 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-2	WW2.5 PW (10/27/2015)	Total/NA	Water	351.2	
660-70082-3	WW1.5 SW (10/27/2015)	Total/NA	Water	351.2	
660-70082-4	WW1.5 PW (10/27/2015)	Total/NA	Water	351.2	
LCS 400-281201/2-A	Lab Control Sample	Total/NA	Water	351.2	
MB 400-281201/1-A	Method Blank	Total/NA	Water	351.2	

Prep Batch: 281202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-1	WW2.5 SW (10/27/2015)	Total/NA	Water	365.2/365.3/365	
660-70082-2	WW2.5 PW (10/27/2015)	Total/NA	Water	365.2/365.3/365	
660-70082-3	WW1.5 SW (10/27/2015)	Total/NA	Water	365.2/365.3/365	
660-70082-4	WW1.5 PW (10/27/2015)	Total/NA	Water	365.2/365.3/365	
LCS 400-281202/2-A	Lab Control Sample	Total/NA	Water	365.2/365.3/365	
MB 400-281202/1-A	Method Blank	Total/NA	Water	365.2/365.3/365	

Analysis Batch: 281217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-1	WW5.5 SED (10/26/2015)	Total/NA	Solid	365.4	281010
660-70053-2	WW5.25 SED (10/26/2015)	Total/NA	Solid	365.4	281010
660-70053-3	WW5.0 SED (10/26/2015)	Total/NA	Solid	365.4	281010
660-70053-4	WW4.5 SED (10/26/2015)	Total/NA	Solid	365.4	281010
660-70053-5	WW4.0 SED (10/26/2015)	Total/NA	Solid	365.4	281010
660-70053-6	WW3.5 SED (10/26/2015)	Total/NA	Solid	365.4	281010
660-70053-7	WW5.5 SW (10/26/2015)	Total/NA	Water	365.4	280978
660-70053-8	WW5.5 PW (10/26/2015)	Total/NA	Water	365.4	280978
660-70053-9	WW5.25 SW (10/26/2015)	Total/NA	Water	365.4	280978
660-70053-10	WW5.25 PW (10/26/2015)	Total/NA	Water	365.4	280978
660-70053-11	WW4.5 SW (10/26/2015)	Total/NA	Water	365.4	280978
660-70053-12	WW4.5 PW (10/26/2015)	Total/NA	Water	365.4	280978
660-70053-13	WW3.5 SW (10/26/2015)	Total/NA	Water	365.4	280978
660-70053-14	WW3.5 PW (10/26/2015)	Total/NA	Water	365.4	280978
LCS 400-280978/2-A	Lab Control Sample	Total/NA	Water	365.4	280978
LCS 400-281010/2-A	Lab Control Sample	Total/NA	Solid	365.4	281010
MB 400-280978/1-A	Method Blank	Total/NA	Water	365.4	280978
MB 400-281010/1-A	Method Blank	Total/NA	Solid	365.4	281010
MRL 400-281217/13	Lab Control Sample	Total/NA	Solid	365.4	
MRL 400-281217/61	Lab Control Sample	Total/NA	Solid	365.4	

Analysis Batch: 281220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-7	CZ 3.0 SED (10/15/2015)	Total/NA	Solid	Moisture	
660-69852-8	CZ 3.5 SED (10/15/2015)	Total/NA	Solid	Moisture	
660-69852-9	CZ 4.0 SED (10/15/2015)	Total/NA	Solid	Moisture	
660-69852-9 DU	CZ 4.0 SED (10/15/2015)	Total/NA	Solid	Moisture	
660-69852-10	CZ 4.5 SED (10/15/2015)	Total/NA	Solid	Moisture	
660-69852-11	CZ 5.0 SED (10/15/2015)	Total/NA	Solid	Moisture	
660-69852-12	CZ 5.5 SED (10/15/2015)	Total/NA	Solid	Moisture	
660-69852-13	CZ 6.0 SED (10/15/2015)	Total/NA	Solid	Moisture	
660-69879-7	CZ 6.5 SED (10/16/2015)	Total/NA	Solid	Moisture	
660-69879-8	CZ 7.0 SED (10/16/2015)	Total/NA	Solid	Moisture	
660-69879-9	CZ 7.5 SED (10/16/2015)	Total/NA	Solid	Moisture	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 281220 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69879-10	CZ 8.0 SED (10/16/2015)	Total/NA	Solid	Moisture	
660-69879-11	CZ 8.5 SED (10/16/2015)	Total/NA	Solid	Moisture	
660-69879-12	CZ 9.0 SED (10/16/2015)	Total/NA	Solid	Moisture	
660-69879-12 DU	CZ 9.0 SED (10/16/2015)	Total/NA	Solid	Moisture	
660-69879-13	CZ 9.5 SED (10/16/2015)	Total/NA	Solid	Moisture	
660-69893-5	HM 10.5 SED (10/19/2015)	Total/NA	Solid	Moisture	
660-69893-6	HM 10.0 SED (10/19/2015)	Total/NA	Solid	Moisture	
660-69893-7	HM 9.5 SED (10/19/2015)	Total/NA	Solid	Moisture	
660-69893-8	HM 9.0 SED (10/19/2015)	Total/NA	Solid	Moisture	
660-69974-1	HM 8.0SED (10/21/2015)	Total/NA	Solid	Moisture	
660-69974-2	HM 7.5 SED (10/21/2015)	Total/NA	Solid	Moisture	
660-69974-3	HM 7.0 SED (10/21/2015)	Total/NA	Solid	Moisture	
660-69974-4	HM 6.5 SED (10/21/2015)	Total/NA	Solid	Moisture	
660-69974-5	HM 6.0 SED (10/21/2015)	Total/NA	Solid	Moisture	
660-69974-6	HM 5.5 SED (10/21/2015)	Total/NA	Solid	Moisture	
660-69974-7	HM 5.0 SED (10/21/2015)	Total/NA	Solid	Moisture	
660-69974-8	HM 4.5 SED (10/21/2015)	Total/NA	Solid	Moisture	
660-69974-9	HM 4.0 SED (10/21/2015)	Total/NA	Solid	Moisture	
660-69974-10	HM 3.5 SED (10/21/2015)	Total/NA	Solid	Moisture	
660-69974-11	HM 3.0 SED (10/21/2015)	Total/NA	Solid	Moisture	
660-69974-14	HM SED 2.5 (10/21/2015)	Total/NA	Solid	Moisture	
660-70002-5	HM2.0SED(10/22/2015)	Total/NA	Solid	Moisture	
660-70002-6	HM1.5SED(10/22/2015)	Total/NA	Solid	Moisture	
660-70002-7	HM1.0SED(10/22/2015)	Total/NA	Solid	Moisture	
660-70002-7 DU	HM1.0SED(10/22/2015)	Total/NA	Solid	Moisture	
660-70002-8	WW9.5SED(10/22/2015)	Total/NA	Solid	Moisture	
660-70002-9	WW9.0SED(10/22/2015)	Total/NA	Solid	Moisture	
660-70002-10	WW8.5SED(10/22/2015)	Total/NA	Solid	Moisture	
660-70026-5	WW8.0SED(10/23/2015)	Total/NA	Solid	Moisture	
660-70026-6	WW7.5SED(10/23/2015)	Total/NA	Solid	Moisture	
660-70026-7	WW7.0SED(10/23/2015)	Total/NA	Solid	Moisture	
660-70026-8	WW6.5SED(10/23/2015)	Total/NA	Solid	Moisture	
660-70026-9	WW6.0SED(10/23/2015)	Total/NA	Solid	Moisture	
660-70053-1	WW5.5 SED (10/26/2015)	Total/NA	Solid	Moisture	
660-70053-2	WW5.25 SED (10/26/2015)	Total/NA	Solid	Moisture	
660-70053-2 DU	WW5.25 SED (10/26/2015)	Total/NA	Solid	Moisture	
660-70053-3	WW5.0 SED (10/26/2015)	Total/NA	Solid	Moisture	
660-70053-4	WW4.5 SED (10/26/2015)	Total/NA	Solid	Moisture	
660-70053-5	WW4.0 SED (10/26/2015)	Total/NA	Solid	Moisture	
660-70053-6	WW3.5 SED (10/26/2015)	Total/NA	Solid	Moisture	

Analysis Batch: 281222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70026-1	WW7.5SW(10/23/2015)	Total/NA	Water	SM3500_FE_D	
660-70026-1 MS	WW7.5SW(10/23/2015)	Total/NA	Water	SM3500_FE_D	
660-70026-1 MSD	WW7.5SW(10/23/2015)	Total/NA	Water	SM3500_FE_D	
660-70026-2	WW7.5 PW(10/23/2015)	Total/NA	Water	SM3500_FE_D	
660-70026-3	WW6.5SW(10/23/2015)	Total/NA	Water	SM3500_FE_D	
660-70026-4	WW6.5PW(10/23/2015)	Total/NA	Water	SM3500_FE_D	
660-70053-7	WW5.5 SW (10/26/2015)	Total/NA	Water	SM3500_FE_D	
660-70053-8	WW5.5 PW (10/26/2015)	Total/NA	Water	SM3500_FE_D	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 281222 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-9	WW5.25 SW (10/26/2015)	Total/NA	Water	SM3500_FE_D	
660-70053-10	WW5.25 PW (10/26/2015)	Total/NA	Water	SM3500_FE_D	
660-70053-11	WW4.5 SW (10/26/2015)	Total/NA	Water	SM3500_FE_D	
660-70053-12	WW4.5 PW (10/26/2015)	Total/NA	Water	SM3500_FE_D	
660-70053-13	WW3.5 SW (10/26/2015)	Total/NA	Water	SM3500_FE_D	
660-70053-13 DU	WW3.5 SW (10/26/2015)	Total/NA	Water	SM3500_FE_D	
660-70053-14	WW3.5 PW (10/26/2015)	Total/NA	Water	SM3500_FE_D	
660-70082-1	WW2.5 SW (10/27/2015)	Total/NA	Water	SM3500_FE_D	
660-70082-2	WW2.5 PW (10/27/2015)	Total/NA	Water	SM3500_FE_D	
660-70082-3	WW1.5 SW (10/27/2015)	Total/NA	Water	SM3500_FE_D	
660-70082-4	WW1.5 PW (10/27/2015)	Total/NA	Water	SM3500_FE_D	
LCS 400-281222/8	Lab Control Sample	Total/NA	Water	SM3500_FE_D	
MB 400-281222/7	Method Blank	Total/NA	Water	SM3500_FE_D	
MRL 400-281222/4	Lab Control Sample	Total/NA	Water	SM3500_FE_D	

Analysis Batch: 281250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-5	WW3.0 SED (10/27/2015)	Soluble	Solid	354.1	281122
660-70082-5 MS	WW3.0 SED (10/27/2015)	Soluble	Solid	354.1	281122
660-70082-5 MSD	WW3.0 SED (10/27/2015)	Soluble	Solid	354.1	281122
660-70082-6	WW2.5 SED (10/27/2015)	Soluble	Solid	354.1	281122
660-70082-7	WW2.0 SED (10/27/2015)	Soluble	Solid	354.1	281122
660-70082-8	WW1.5 SED (10/27/2015)	Soluble	Solid	354.1	281122
660-70082-9	WW1.0 SED (10/27/2015)	Soluble	Solid	354.1	281122
LCS 400-281122/7-A	Lab Control Sample	Soluble	Solid	354.1	281122
MB 400-281122/6-A	Method Blank	Soluble	Solid	354.1	281122
MRL 400-281122/3-A	Lab Control Sample	Soluble	Solid	354.1	281122

Analysis Batch: 281251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-5	WW3.0 SED (10/27/2015)	Soluble	Solid	365.1	281123
660-70082-5 MS	WW3.0 SED (10/27/2015)	Soluble	Solid	365.1	281123
660-70082-5 MSD	WW3.0 SED (10/27/2015)	Soluble	Solid	365.1	281123
660-70082-6	WW2.5 SED (10/27/2015)	Soluble	Solid	365.1	281123
660-70082-7	WW2.0 SED (10/27/2015)	Soluble	Solid	365.1	281123
660-70082-8	WW1.5 SED (10/27/2015)	Soluble	Solid	365.1	281123
660-70082-9	WW1.0 SED (10/27/2015)	Soluble	Solid	365.1	281123
LCS 400-281123/7-A	Lab Control Sample	Soluble	Solid	365.1	281123
MB 400-281123/6-A	Method Blank	Soluble	Solid	365.1	281123

Analysis Batch: 281339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70026-6	WW7.5SED(10/23/2015)	Total/NA	Solid	365.4	281199
660-70082-1	WW2.5 SW (10/27/2015)	Total/NA	Water	365.4	281202
660-70082-2	WW2.5 PW (10/27/2015)	Total/NA	Water	365.4	281202
660-70082-3	WW1.5 SW (10/27/2015)	Total/NA	Water	365.4	281202
660-70082-4	WW1.5 PW (10/27/2015)	Total/NA	Water	365.4	281202
660-70082-5	WW3.0 SED (10/27/2015)	Total/NA	Solid	365.4	281199
660-70082-5 MS	WW3.0 SED (10/27/2015)	Total/NA	Solid	365.4	281199
660-70082-5 MSD	WW3.0 SED (10/27/2015)	Total/NA	Solid	365.4	281199
660-70082-6	WW2.5 SED (10/27/2015)	Total/NA	Solid	365.4	281199

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 281339 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-7	WW2.0 SED (10/27/2015)	Total/NA	Solid	365.4	281199
660-70082-8	WW1.5 SED (10/27/2015)	Total/NA	Solid	365.4	281199
660-70082-9	WW1.0 SED (10/27/2015)	Total/NA	Solid	365.4	281199
LCS 400-281199/2-A	Lab Control Sample	Total/NA	Solid	365.4	281199
LCS 400-281202/2-A	Lab Control Sample	Total/NA	Water	365.4	281202
MB 400-281199/1-A	Method Blank	Total/NA	Solid	365.4	281199
MB 400-281202/1-A	Method Blank	Total/NA	Water	365.4	281202
MRL 400-281339/13	Lab Control Sample	Total/NA	Solid	365.4	

Analysis Batch: 281362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-1	WW5.5 SED (10/26/2015)	Total/NA	Solid	351.2	281006
660-70053-2	WW5.25 SED (10/26/2015)	Total/NA	Solid	351.2	281006
660-70053-3	WW5.0 SED (10/26/2015)	Total/NA	Solid	351.2	281006
660-70053-4	WW4.5 SED (10/26/2015)	Total/NA	Solid	351.2	281006
660-70053-5	WW4.0 SED (10/26/2015)	Total/NA	Solid	351.2	281006
660-70053-6	WW3.5 SED (10/26/2015)	Total/NA	Solid	351.2	281006
660-70053-7	WW5.5 SW (10/26/2015)	Total/NA	Water	351.2	280976
660-70053-8	WW5.5 PW (10/26/2015)	Total/NA	Water	351.2	280976
660-70053-9	WW5.25 SW (10/26/2015)	Total/NA	Water	351.2	280976
660-70053-10	WW5.25 PW (10/26/2015)	Total/NA	Water	351.2	280976
660-70053-11	WW4.5 SW (10/26/2015)	Total/NA	Water	351.2	280976
660-70053-12	WW4.5 PW (10/26/2015)	Total/NA	Water	351.2	280976
660-70053-13	WW3.5 SW (10/26/2015)	Total/NA	Water	351.2	280976
660-70053-14	WW3.5 PW (10/26/2015)	Total/NA	Water	351.2	280976
LCS 400-280976/2-A	Lab Control Sample	Total/NA	Water	351.2	280976
LCS 400-281006/2-A	Lab Control Sample	Total/NA	Solid	351.2	281006
MB 400-280976/1-A	Method Blank	Total/NA	Water	351.2	280976
MB 400-281006/1-A	Method Blank	Total/NA	Solid	351.2	281006
MRL 400-281362/11	Lab Control Sample	Total/NA	Solid	351.2	

Analysis Batch: 281374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70026-6	WW7.5SED(10/23/2015)	Total/NA	Solid	351.2	281198
660-70082-1	WW2.5 SW (10/27/2015)	Total/NA	Water	351.2	281201
660-70082-2	WW2.5 PW (10/27/2015)	Total/NA	Water	351.2	281201
660-70082-3	WW1.5 SW (10/27/2015)	Total/NA	Water	351.2	281201
660-70082-4	WW1.5 PW (10/27/2015)	Total/NA	Water	351.2	281201
660-70082-5	WW3.0 SED (10/27/2015)	Total/NA	Solid	351.2	281198
660-70082-5 MS	WW3.0 SED (10/27/2015)	Total/NA	Solid	351.2	281198
660-70082-5 MSD	WW3.0 SED (10/27/2015)	Total/NA	Solid	351.2	281198
660-70082-6	WW2.5 SED (10/27/2015)	Total/NA	Solid	351.2	281198
660-70082-7	WW2.0 SED (10/27/2015)	Total/NA	Solid	351.2	281198
660-70082-8	WW1.5 SED (10/27/2015)	Total/NA	Solid	351.2	281198
660-70082-9	WW1.0 SED (10/27/2015)	Total/NA	Solid	351.2	281198
LCS 400-281198/2-A	Lab Control Sample	Total/NA	Solid	351.2	281198
LCS 400-281201/2-A	Lab Control Sample	Total/NA	Water	351.2	281201
MB 400-281198/1-A	Method Blank	Total/NA	Solid	351.2	281198
MB 400-281201/1-A	Method Blank	Total/NA	Water	351.2	281201
MRL 400-281374/11	Lab Control Sample	Total/NA	Solid	351.2	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 281411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-2	CZ 0.5 SW (10/14/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69823-3	CZ 0.5 PW (10/14/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69823-6	CZ 1.5 SW (10/14/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69823-7	CZ 1.5 PW (10/14/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69823-10	CZ 2.5 SW (10/14/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69823-11	CZ 2.5 PW (10/14/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69852-1	CZ 3.5 SW (10/15/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69852-2	CZ 3.5 PW (10/15/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69852-3	CZ 4.5 SW (10/15/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69852-4	CZ 4.5 PW (10/15/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69852-5	CZ 5.5 SW (10/15/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69852-6	CZ 5.5 PW (10/15/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69879-1	CZ 6.5 SW (10/16/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69879-2	CZ 6.5 PW (10/16/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69879-3	CZ 7.5 SW (10/16/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69879-4	CZ 7.5 PW (10/16/2015)	Total/NA	Water	SM 4500 SO4 E	
LCS 400-281411/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MB 400-281411/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MRL 400-281411/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 281412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70002-1	HM1.5 SW(10/22/2015)	Total/NA	Water	SM 4500 CI- E	
660-70002-2	HM1.5 PW(10/22/2015)	Total/NA	Water	SM 4500 CI- E	
660-70002-3	WW8.5SW(10/22/2015)	Total/NA	Water	SM 4500 CI- E	
660-70002-4	WW8.5PW(10/22/2015)	Total/NA	Water	SM 4500 CI- E	
660-70002-4 MS	WW8.5PW(10/22/2015)	Total/NA	Water	SM 4500 CI- E	
660-70002-4 MSD	WW8.5PW(10/22/2015)	Total/NA	Water	SM 4500 CI- E	
660-70026-1	WW7.5SW(10/23/2015)	Total/NA	Water	SM 4500 CI- E	
660-70026-2	WW7.5 PW(10/23/2015)	Total/NA	Water	SM 4500 CI- E	
660-70026-3	WW6.5SW(10/23/2015)	Total/NA	Water	SM 4500 CI- E	
660-70026-4	WW6.5PW(10/23/2015)	Total/NA	Water	SM 4500 CI- E	
660-70053-7	WW5.5 SW (10/26/2015)	Total/NA	Water	SM 4500 CI- E	
660-70053-8	WW5.5 PW (10/26/2015)	Total/NA	Water	SM 4500 CI- E	
660-70053-9	WW5.25 SW (10/26/2015)	Total/NA	Water	SM 4500 CI- E	
660-70053-10	WW5.25 PW (10/26/2015)	Total/NA	Water	SM 4500 CI- E	
LCS 400-281412/7	Lab Control Sample	Total/NA	Water	SM 4500 CI- E	
MB 400-281412/6	Method Blank	Total/NA	Water	SM 4500 CI- E	

Leach Batch: 281558

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-1	HM 8.0SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-1 MS	HM 8.0SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-1 MSD	HM 8.0SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-2	HM 7.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-3	HM 7.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-4	HM 6.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-5	HM 6.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-6	HM 5.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-7	HM 5.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-8	HM 4.5 SED (10/21/2015)	Soluble	Solid	DI Leach	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Leach Batch: 281558 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-9	HM 4.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-10	HM 3.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-11	HM 3.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-11 MS	HM 3.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-11 MSD	HM 3.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-14	HM SED 2.5 (10/21/2015)	Soluble	Solid	DI Leach	
660-70002-5	HM2.0SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-6	HM1.5SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-7	HM1.0SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-8	WW9.5SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-9	WW9.0SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-10	WW8.5SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70026-5	WW8.0SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-6	WW7.5SED(10/23/2015)	Soluble	Solid	DI Leach	
LCS 400-281558/5-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-281558/4-A	Method Blank	Soluble	Solid	DI Leach	

Leach Batch: 281561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-1	HM 8.0SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-1 MS	HM 8.0SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-1 MSD	HM 8.0SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-2	HM 7.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-3	HM 7.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-4	HM 6.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-5	HM 6.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-6	HM 5.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-7	HM 5.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-8	HM 4.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-9	HM 4.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-10	HM 3.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-11	HM 3.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-11 MS	HM 3.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-11 MSD	HM 3.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-14	HM SED 2.5 (10/21/2015)	Soluble	Solid	DI Leach	
660-70002-5	HM2.0SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-6	HM1.5SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-7	HM1.0SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-8	WW9.5SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-9	WW9.0SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-10	WW8.5SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70026-5	WW8.0SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-6	WW7.5SED(10/23/2015)	Soluble	Solid	DI Leach	
LCS 400-281561/5-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-281561/4-A	Method Blank	Soluble	Solid	DI Leach	

Leach Batch: 281568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70026-7	WW7.0SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-7 MS	WW7.0SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-7 MSD	WW7.0SED(10/23/2015)	Soluble	Solid	DI Leach	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Leach Batch: 281568 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70026-8	WW6.5SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-9	WW6.0SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70053-1	WW5.5 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-2	WW5.25 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-3	WW5.0 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-4	WW4.5 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-5	WW4.0 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-6	WW3.5 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70082-5	WW3.0 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-6	WW2.5 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-6 MS	WW2.5 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-6 MSD	WW2.5 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-7	WW2.0 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-8	WW1.5 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-9	WW1.0 SED (10/27/2015)	Soluble	Solid	DI Leach	
LCS 400-281568/5-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-281568/4-A	Method Blank	Soluble	Solid	DI Leach	

Leach Batch: 281583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70026-7	WW7.0SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-7 MS	WW7.0SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-7 MSD	WW7.0SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-8	WW6.5SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-9	WW6.0SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70053-1	WW5.5 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-2	WW5.25 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-3	WW5.0 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-4	WW4.5 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-5	WW4.0 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-6	WW3.5 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70082-5	WW3.0 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-6	WW2.5 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-6 MS	WW2.5 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-6 MSD	WW2.5 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-7	WW2.0 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-8	WW1.5 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-9	WW1.0 SED (10/27/2015)	Soluble	Solid	DI Leach	
LCS 400-281583/5-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-281583/4-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 281702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-5	WW3.0 SED (10/27/2015)	Total/NA	Solid	Moisture	
660-70082-6	WW2.5 SED (10/27/2015)	Total/NA	Solid	Moisture	
660-70082-7	WW2.0 SED (10/27/2015)	Total/NA	Solid	Moisture	
660-70082-7 DU	WW2.0 SED (10/27/2015)	Total/NA	Solid	Moisture	
660-70082-8	WW1.5 SED (10/27/2015)	Total/NA	Solid	Moisture	

QC Association Summary

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Leach Batch: 281729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-1	CZ 0.5 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-1 MS	CZ 0.5 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-1 MSD	CZ 0.5 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-4	CZ 1.0 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-5	CZ 1.5 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-8	CZ 2.0 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69823-9	CZ 2.5 SED (10/14/2015)	Soluble	Solid	DI Leach	
660-69852-7	CZ 3.0 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-8	CZ 3.5 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-9	CZ 4.0 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-10	CZ 4.5 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-11	CZ 5.0 SED (10/15/2015)	Soluble	Solid	DI Leach	
LCS 400-281729/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-281729/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 281762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-1	HM 8.0SED (10/21/2015)	Soluble	Solid	353.2	281558
660-69974-1 MS	HM 8.0SED (10/21/2015)	Soluble	Solid	353.2	281558
660-69974-1 MSD	HM 8.0SED (10/21/2015)	Soluble	Solid	353.2	281558
660-69974-2	HM 7.5 SED (10/21/2015)	Soluble	Solid	353.2	281558
660-69974-3	HM 7.0 SED (10/21/2015)	Soluble	Solid	353.2	281558
660-69974-4	HM 6.5 SED (10/21/2015)	Soluble	Solid	353.2	281558
660-69974-5	HM 6.0 SED (10/21/2015)	Soluble	Solid	353.2	281558
660-69974-6	HM 5.5 SED (10/21/2015)	Soluble	Solid	353.2	281558
660-69974-7	HM 5.0 SED (10/21/2015)	Soluble	Solid	353.2	281558
660-69974-8	HM 4.5 SED (10/21/2015)	Soluble	Solid	353.2	281558
660-69974-9	HM 4.0 SED (10/21/2015)	Soluble	Solid	353.2	281558
660-69974-10	HM 3.5 SED (10/21/2015)	Soluble	Solid	353.2	281558
660-69974-11	HM 3.0 SED (10/21/2015)	Soluble	Solid	353.2	281558
660-69974-11 MS	HM 3.0 SED (10/21/2015)	Soluble	Solid	353.2	281558
660-69974-11 MSD	HM 3.0 SED (10/21/2015)	Soluble	Solid	353.2	281558
660-69974-14	HM SED 2.5 (10/21/2015)	Soluble	Solid	353.2	281558
660-70002-5	HM2.0SED(10/22/2015)	Soluble	Solid	353.2	281558
660-70002-6	HM1.5SED(10/22/2015)	Soluble	Solid	353.2	281558
660-70002-7	HM1.0SED(10/22/2015)	Soluble	Solid	353.2	281558
660-70002-8	WW9.5SED(10/22/2015)	Soluble	Solid	353.2	281558
660-70002-9	WW9.0SED(10/22/2015)	Soluble	Solid	353.2	281558
660-70002-10	WW8.5SED(10/22/2015)	Soluble	Solid	353.2	281558
660-70026-5	WW8.0SED(10/23/2015)	Soluble	Solid	353.2	281558
660-70026-6	WW7.5SED(10/23/2015)	Soluble	Solid	353.2	281558
660-70026-7	WW7.0SED(10/23/2015)	Soluble	Solid	353.2	281568
660-70026-7 MS	WW7.0SED(10/23/2015)	Soluble	Solid	353.2	281568
660-70026-7 MSD	WW7.0SED(10/23/2015)	Soluble	Solid	353.2	281568
660-70026-8	WW6.5SED(10/23/2015)	Soluble	Solid	353.2	281568
660-70026-9	WW6.0SED(10/23/2015)	Soluble	Solid	353.2	281568
660-70053-1	WW5.5 SED (10/26/2015)	Soluble	Solid	353.2	281568
660-70053-2	WW5.25 SED (10/26/2015)	Soluble	Solid	353.2	281568
660-70053-3	WW5.0 SED (10/26/2015)	Soluble	Solid	353.2	281568
660-70053-4	WW4.5 SED (10/26/2015)	Soluble	Solid	353.2	281568
660-70053-5	WW4.0 SED (10/26/2015)	Soluble	Solid	353.2	281568

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 281762 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-6	WW3.5 SED (10/26/2015)	Soluble	Solid	353.2	281568
660-70082-5	WW3.0 SED (10/27/2015)	Soluble	Solid	353.2	281568
660-70082-6	WW2.5 SED (10/27/2015)	Soluble	Solid	353.2	281568
660-70082-6 MS	WW2.5 SED (10/27/2015)	Soluble	Solid	353.2	281568
660-70082-6 MSD	WW2.5 SED (10/27/2015)	Soluble	Solid	353.2	281568
660-70082-7	WW2.0 SED (10/27/2015)	Soluble	Solid	353.2	281568
660-70082-8	WW1.5 SED (10/27/2015)	Soluble	Solid	353.2	281568
660-70082-9	WW1.0 SED (10/27/2015)	Soluble	Solid	353.2	281568
LCS 400-281558/5-A	Lab Control Sample	Soluble	Solid	353.2	281558
LCS 400-281568/5-A	Lab Control Sample	Soluble	Solid	353.2	281568
MB 400-281558/4-A	Method Blank	Soluble	Solid	353.2	281558
MB 400-281568/4-A	Method Blank	Soluble	Solid	353.2	281568
MRL 400-281762/13	Lab Control Sample	Total/NA	Solid	353.2	

Analysis Batch: 281780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-1	CZ 0.5 SED (10/14/2015)	Soluble	Solid	9038	281729
660-69823-1 MS	CZ 0.5 SED (10/14/2015)	Soluble	Solid	9038	281729
660-69823-1 MSD	CZ 0.5 SED (10/14/2015)	Soluble	Solid	9038	281729
660-69823-4	CZ 1.0 SED (10/14/2015)	Soluble	Solid	9038	281729
660-69823-5	CZ 1.5 SED (10/14/2015)	Soluble	Solid	9038	281729
660-69823-8	CZ 2.0 SED (10/14/2015)	Soluble	Solid	9038	281729
660-69823-9	CZ 2.5 SED (10/14/2015)	Soluble	Solid	9038	281729
660-69852-7	CZ 3.0 SED (10/15/2015)	Soluble	Solid	9038	281729
660-69852-8	CZ 3.5 SED (10/15/2015)	Soluble	Solid	9038	281729
660-69852-9	CZ 4.0 SED (10/15/2015)	Soluble	Solid	9038	281729
660-69852-10	CZ 4.5 SED (10/15/2015)	Soluble	Solid	9038	281729
660-69852-11	CZ 5.0 SED (10/15/2015)	Soluble	Solid	9038	281729
LCS 400-281729/2-A	Lab Control Sample	Soluble	Solid	9038	281729
MB 400-281729/1-A	Method Blank	Soluble	Solid	9038	281729
MRL 400-281780/3	Lab Control Sample	Total/NA	Solid	9038	

Analysis Batch: 281781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-1	CZ 0.5 SED (10/14/2015)	Soluble	Solid	9251	281729
660-69823-1 MS	CZ 0.5 SED (10/14/2015)	Soluble	Solid	9251	281729
660-69823-1 MSD	CZ 0.5 SED (10/14/2015)	Soluble	Solid	9251	281729
660-69823-4	CZ 1.0 SED (10/14/2015)	Soluble	Solid	9251	281729
660-69823-5	CZ 1.5 SED (10/14/2015)	Soluble	Solid	9251	281729
660-69823-8	CZ 2.0 SED (10/14/2015)	Soluble	Solid	9251	281729
660-69823-9	CZ 2.5 SED (10/14/2015)	Soluble	Solid	9251	281729
660-69852-7	CZ 3.0 SED (10/15/2015)	Soluble	Solid	9251	281729
660-69852-8	CZ 3.5 SED (10/15/2015)	Soluble	Solid	9251	281729
660-69852-9	CZ 4.0 SED (10/15/2015)	Soluble	Solid	9251	281729
660-69852-10	CZ 4.5 SED (10/15/2015)	Soluble	Solid	9251	281729
660-69852-11	CZ 5.0 SED (10/15/2015)	Soluble	Solid	9251	281729
LCS 400-281729/2-A	Lab Control Sample	Soluble	Solid	9251	281729
MB 400-281729/1-A	Method Blank	Soluble	Solid	9251	281729

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 281810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-1	WW2.5 SW (10/27/2015)	Total/NA	Water	353.2	
660-70082-2	WW2.5 PW (10/27/2015)	Total/NA	Water	353.2	
660-70082-3	WW1.5 SW (10/27/2015)	Total/NA	Water	353.2	
660-70082-4	WW1.5 PW (10/27/2015)	Total/NA	Water	353.2	
LCS 400-281810/16	Lab Control Sample	Total/NA	Water	353.2	
MB 400-281810/15	Method Blank	Total/NA	Water	353.2	
MRL 400-281810/13	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 281894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-2	CZ 0.5 SW (10/14/2015)	Total/NA	Water	Total Nitrogen	
660-69823-3	CZ 0.5 PW (10/14/2015)	Total/NA	Water	Total Nitrogen	
660-69823-6	CZ 1.5 SW (10/14/2015)	Total/NA	Water	Total Nitrogen	
660-69823-7	CZ 1.5 PW (10/14/2015)	Total/NA	Water	Total Nitrogen	
660-69823-10	CZ 2.5 SW (10/14/2015)	Total/NA	Water	Total Nitrogen	
660-69823-11	CZ 2.5 PW (10/14/2015)	Total/NA	Water	Total Nitrogen	
660-69852-1	CZ 3.5 SW (10/15/2015)	Total/NA	Water	Total Nitrogen	
660-69852-2	CZ 3.5 PW (10/15/2015)	Total/NA	Water	Total Nitrogen	
660-69852-3	CZ 4.5 SW (10/15/2015)	Total/NA	Water	Total Nitrogen	

Analysis Batch: 281899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-4	CZ 4.5 PW (10/15/2015)	Total/NA	Water	Total Nitrogen	
660-69852-5	CZ 5.5 SW (10/15/2015)	Total/NA	Water	Total Nitrogen	
660-69852-6	CZ 5.5 PW (10/15/2015)	Total/NA	Water	Total Nitrogen	
660-69879-1	CZ 6.5 SW (10/16/2015)	Total/NA	Water	Total Nitrogen	
660-69879-2	CZ 6.5 PW (10/16/2015)	Total/NA	Water	Total Nitrogen	
660-69879-3	CZ 7.5 SW (10/16/2015)	Total/NA	Water	Total Nitrogen	
660-69879-4	CZ 7.5 PW (10/16/2015)	Total/NA	Water	Total Nitrogen	

Analysis Batch: 281901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69879-5	CZ 8.5 SW (10/16/2015)	Total/NA	Water	Total Nitrogen	
660-69879-6	CZ 8.5 PW (10/16/2015)	Total/NA	Water	Total Nitrogen	
660-69893-1	HM 10.5 SW (10/19/2015)	Total/NA	Water	Total Nitrogen	
660-69893-2	HM 10.5 PW (10/19/2015)	Total/NA	Water	Total Nitrogen	
660-69893-3	HM 9.5 SW (10/19/2015)	Total/NA	Water	Total Nitrogen	
660-69893-4	HM 9.5 PW (10/19/2015)	Total/NA	Water	Total Nitrogen	
660-69919-1	HM8.5 SW (10/20/2015)	Total/NA	Water	Total Nitrogen	
660-69919-2	HM8.5 PW (10/20/2015)	Total/NA	Water	Total Nitrogen	
660-70026-1	WW7.5SW(10/23/2015)	Total/NA	Water	Total Nitrogen	
660-70026-2	WW7.5 PW(10/23/2015)	Total/NA	Water	Total Nitrogen	
660-70026-3	WW6.5SW(10/23/2015)	Total/NA	Water	Total Nitrogen	
660-70026-4	WW6.5PW(10/23/2015)	Total/NA	Water	Total Nitrogen	
660-70053-7	WW5.5 SW (10/26/2015)	Total/NA	Water	Total Nitrogen	
660-70053-8	WW5.5 PW (10/26/2015)	Total/NA	Water	Total Nitrogen	
660-70053-9	WW5.25 SW (10/26/2015)	Total/NA	Water	Total Nitrogen	
660-70053-10	WW5.25 PW (10/26/2015)	Total/NA	Water	Total Nitrogen	
660-70053-11	WW4.5 SW (10/26/2015)	Total/NA	Water	Total Nitrogen	
660-70053-12	WW4.5 PW (10/26/2015)	Total/NA	Water	Total Nitrogen	
660-70053-13	WW3.5 SW (10/26/2015)	Total/NA	Water	Total Nitrogen	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 281901 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-14	WW3.5 PW (10/26/2015)	Total/NA	Water	Total Nitrogen	

Analysis Batch: 281902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69919-3	HM7.5 SW (10/20/2015)	Total/NA	Water	Total Nitrogen	
660-69919-4	HM7.5 PW (10/20/2015)	Total/NA	Water	Total Nitrogen	
660-69919-5	HM6.5 SW (10-20-2015)	Total/NA	Water	Total Nitrogen	
660-69919-6	HM6.5 PW (10-20-2015)	Total/NA	Water	Total Nitrogen	
660-69919-7	HM5.5 SW (10-20-2015)	Total/NA	Water	Total Nitrogen	
660-69919-8	HM5.5 PW (10-20-2015)	Total/NA	Water	Total Nitrogen	
660-69919-9	HM4.5 SW(10/20/2015)	Total/NA	Water	Total Nitrogen	
660-69919-10	HM4.5 PW (10-20-2015)	Total/NA	Water	Total Nitrogen	
660-69919-11	HM3.5 SW (10-20-2015)	Total/NA	Water	Total Nitrogen	
660-69919-12	HM3.5 PW (10/20/2015)	Total/NA	Water	Total Nitrogen	

Analysis Batch: 281904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-12	HM 2.5 SW (10/21/2015)	Total/NA	Water	Total Nitrogen	
660-69974-13	HM 2.5 PW (10/21/2015)	Total/NA	Water	Total Nitrogen	
660-70002-1	HM1.5 SW(10/22/2015)	Total/NA	Water	Total Nitrogen	
660-70002-2	HM1.5 PW(10/22/2015)	Total/NA	Water	Total Nitrogen	
660-70002-3	WW8.5SW(10/22/2015)	Total/NA	Water	Total Nitrogen	
660-70002-4	WW8.5PW(10/22/2015)	Total/NA	Water	Total Nitrogen	

Analysis Batch: 281908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-1	CZ 0.5 SED (10/14/2015)	Total/NA	Solid	Total Nitrogen	
660-69823-4	CZ 1.0 SED (10/14/2015)	Total/NA	Solid	Total Nitrogen	
660-69823-5	CZ 1.5 SED (10/14/2015)	Total/NA	Solid	Total Nitrogen	
660-69823-8	CZ 2.0 SED (10/14/2015)	Total/NA	Solid	Total Nitrogen	
660-69823-9	CZ 2.5 SED (10/14/2015)	Total/NA	Solid	Total Nitrogen	
660-69852-7	CZ 3.0 SED (10/15/2015)	Total/NA	Solid	Total Nitrogen	
660-69852-8	CZ 3.5 SED (10/15/2015)	Total/NA	Solid	Total Nitrogen	
660-69852-9	CZ 4.0 SED (10/15/2015)	Total/NA	Solid	Total Nitrogen	
660-69852-10	CZ 4.5 SED (10/15/2015)	Total/NA	Solid	Total Nitrogen	
660-69852-11	CZ 5.0 SED (10/15/2015)	Total/NA	Solid	Total Nitrogen	
660-69852-12	CZ 5.5 SED (10/15/2015)	Total/NA	Solid	Total Nitrogen	
660-69852-13	CZ 6.0 SED (10/15/2015)	Total/NA	Solid	Total Nitrogen	
660-69879-7	CZ 6.5 SED (10/16/2015)	Total/NA	Solid	Total Nitrogen	
660-69879-8	CZ 7.0 SED (10/16/2015)	Total/NA	Solid	Total Nitrogen	
660-69879-9	CZ 7.5 SED (10/16/2015)	Total/NA	Solid	Total Nitrogen	
660-69879-10	CZ 8.0 SED (10/16/2015)	Total/NA	Solid	Total Nitrogen	
660-69879-11	CZ 8.5 SED (10/16/2015)	Total/NA	Solid	Total Nitrogen	
660-69879-12	CZ 9.0 SED (10/16/2015)	Total/NA	Solid	Total Nitrogen	
660-69879-13	CZ 9.5 SED (10/16/2015)	Total/NA	Solid	Total Nitrogen	
660-69893-5	HM 10.5 SED (10/19/2015)	Total/NA	Solid	Total Nitrogen	
660-69893-6	HM 10.0 SED (10/19/2015)	Total/NA	Solid	Total Nitrogen	
660-69893-7	HM 9.5 SED (10/19/2015)	Total/NA	Solid	Total Nitrogen	
660-69893-8	HM 9.0 SED (10/19/2015)	Total/NA	Solid	Total Nitrogen	
660-69919-13	HM8.5 SED (10/20/2015)	Total/NA	Solid	Total Nitrogen	

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 281917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-1	HM 8.0SED (10/21/2015)	Total/NA	Solid	Total Nitrogen	
660-69974-2	HM 7.5 SED (10/21/2015)	Total/NA	Solid	Total Nitrogen	
660-69974-3	HM 7.0 SED (10/21/2015)	Total/NA	Solid	Total Nitrogen	
660-69974-4	HM 6.5 SED (10/21/2015)	Total/NA	Solid	Total Nitrogen	
660-69974-5	HM 6.0 SED (10/21/2015)	Total/NA	Solid	Total Nitrogen	
660-69974-6	HM 5.5 SED (10/21/2015)	Total/NA	Solid	Total Nitrogen	
660-69974-7	HM 5.0 SED (10/21/2015)	Total/NA	Solid	Total Nitrogen	
660-69974-8	HM 4.5 SED (10/21/2015)	Total/NA	Solid	Total Nitrogen	
660-69974-9	HM 4.0 SED (10/21/2015)	Total/NA	Solid	Total Nitrogen	
660-69974-10	HM 3.5 SED (10/21/2015)	Total/NA	Solid	Total Nitrogen	
660-69974-11	HM 3.0 SED (10/21/2015)	Total/NA	Solid	Total Nitrogen	
660-69974-14	HM SED 2.5 (10/21/2015)	Total/NA	Solid	Total Nitrogen	
660-70002-5	HM2.0SED(10/22/2015)	Total/NA	Solid	Total Nitrogen	
660-70002-6	HM1.5SED(10/22/2015)	Total/NA	Solid	Total Nitrogen	
660-70002-7	HM1.0SED(10/22/2015)	Total/NA	Solid	Total Nitrogen	
660-70002-8	WW9.5SED(10/22/2015)	Total/NA	Solid	Total Nitrogen	
660-70002-9	WW9.0SED(10/22/2015)	Total/NA	Solid	Total Nitrogen	
660-70002-10	WW8.5SED(10/22/2015)	Total/NA	Solid	Total Nitrogen	
660-70026-5	WW8.0SED(10/23/2015)	Total/NA	Solid	Total Nitrogen	
660-70026-6	WW7.5SED(10/23/2015)	Total/NA	Solid	Total Nitrogen	
660-70026-7	WW7.0SED(10/23/2015)	Total/NA	Solid	Total Nitrogen	
660-70026-8	WW6.5SED(10/23/2015)	Total/NA	Solid	Total Nitrogen	
660-70026-9	WW6.0SED(10/23/2015)	Total/NA	Solid	Total Nitrogen	
660-70053-1	WW5.5 SED (10/26/2015)	Total/NA	Solid	Total Nitrogen	
660-70053-2	WW5.25 SED (10/26/2015)	Total/NA	Solid	Total Nitrogen	
660-70053-3	WW5.0 SED (10/26/2015)	Total/NA	Solid	Total Nitrogen	
660-70053-4	WW 4.5 SED (10/26/2015)	Total/NA	Solid	Total Nitrogen	
660-70053-5	WW4.0 SED (10/26/2015)	Total/NA	Solid	Total Nitrogen	
660-70053-6	WW3.5 SED (10/26/2015)	Total/NA	Solid	Total Nitrogen	
660-70082-5	WW3.0 SED (10/27/2015)	Total/NA	Solid	Total Nitrogen	
660-70082-6	WW2.5 SED (10/27/2015)	Total/NA	Solid	Total Nitrogen	
660-70082-7	WW2.0 SED (10/27/2015)	Total/NA	Solid	Total Nitrogen	
660-70082-8	WW1.5 SED (10/27/2015)	Total/NA	Solid	Total Nitrogen	
660-70082-9	WW1.0 SED (10/27/2015)	Total/NA	Solid	Total Nitrogen	

Prep Batch: 281976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-11	HM 3.0 SED (10/21/2015)	Total/NA	Solid	351.2	
LCS 400-281976/2-A	Lab Control Sample	Total/NA	Solid	351.2	
MB 400-281976/1-A	Method Blank	Total/NA	Solid	351.2	

Leach Batch: 281998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-12	CZ 5.5 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-12 MS	CZ 5.5 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-12 MSD	CZ 5.5 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69852-13	CZ 6.0 SED (10/15/2015)	Soluble	Solid	DI Leach	
660-69879-7	CZ 6.5 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-8	CZ 7.0 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-9	CZ 7.5 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-10	CZ 8.0 SED (10/16/2015)	Soluble	Solid	DI Leach	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Leach Batch: 281998 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69879-11	CZ 8.5 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-12	CZ 9.0 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69879-13	CZ 9.5 SED (10/16/2015)	Soluble	Solid	DI Leach	
660-69893-5	HM 10.5 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69893-6	HM 10.0 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69893-7	HM 9.5 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69893-8	HM 9.0 SED (10/19/2015)	Soluble	Solid	DI Leach	
660-69919-13	HM8.5 SED (10/20/2015)	Soluble	Solid	DI Leach	
660-69974-1	HM 8.0SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-2	HM 7.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-3	HM 7.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-4	HM 6.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-5	HM 6.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-6	HM 5.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
LCS 400-281998/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-281998/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 282015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-1	HM 8.0SED (10/21/2015)	Soluble	Solid	350.1	281561
660-69974-1 MS	HM 8.0SED (10/21/2015)	Soluble	Solid	350.1	281561
660-69974-1 MSD	HM 8.0SED (10/21/2015)	Soluble	Solid	350.1	281561
660-69974-2	HM 7.5 SED (10/21/2015)	Soluble	Solid	350.1	281561
660-69974-3	HM 7.0 SED (10/21/2015)	Soluble	Solid	350.1	281561
660-69974-4	HM 6.5 SED (10/21/2015)	Soluble	Solid	350.1	281561
660-69974-5	HM 6.0 SED (10/21/2015)	Soluble	Solid	350.1	281561
660-69974-6	HM 5.5 SED (10/21/2015)	Soluble	Solid	350.1	281561
660-69974-7	HM 5.0 SED (10/21/2015)	Soluble	Solid	350.1	281561
660-69974-8	HM 4.5 SED (10/21/2015)	Soluble	Solid	350.1	281561
660-69974-9	HM 4.0 SED (10/21/2015)	Soluble	Solid	350.1	281561
660-69974-10	HM 3.5 SED (10/21/2015)	Soluble	Solid	350.1	281561
660-69974-11	HM 3.0 SED (10/21/2015)	Soluble	Solid	350.1	281561
660-69974-11 MS	HM 3.0 SED (10/21/2015)	Soluble	Solid	350.1	281561
660-69974-11 MSD	HM 3.0 SED (10/21/2015)	Soluble	Solid	350.1	281561
660-69974-14	HM SED 2.5 (10/21/2015)	Soluble	Solid	350.1	281561
660-70002-5	HM2.0SED(10/22/2015)	Soluble	Solid	350.1	281561
660-70002-6	HM1.5SED(10/22/2015)	Soluble	Solid	350.1	281561
660-70002-7	HM1.0SED(10/22/2015)	Soluble	Solid	350.1	281561
660-70002-8	WW9.5SED(10/22/2015)	Soluble	Solid	350.1	281561
660-70002-9	WW9.0SED(10/22/2015)	Soluble	Solid	350.1	281561
660-70002-10	WW8.5SED(10/22/2015)	Soluble	Solid	350.1	281561
660-70026-5	WW8.0SED(10/23/2015)	Soluble	Solid	350.1	281561
660-70026-6	WW7.5SED(10/23/2015)	Soluble	Solid	350.1	281561
660-70026-7	WW7.0SED(10/23/2015)	Soluble	Solid	350.1	281583
660-70026-7 MS	WW7.0SED(10/23/2015)	Soluble	Solid	350.1	281583
660-70026-7 MSD	WW7.0SED(10/23/2015)	Soluble	Solid	350.1	281583
660-70026-8	WW6.5SED(10/23/2015)	Soluble	Solid	350.1	281583
660-70026-9	WW6.0SED(10/23/2015)	Soluble	Solid	350.1	281583
660-70053-1	WW5.5 SED (10/26/2015)	Soluble	Solid	350.1	281583
660-70053-2	WW5.25 SED (10/26/2015)	Soluble	Solid	350.1	281583
660-70053-3	WW5.0 SED (10/26/2015)	Soluble	Solid	350.1	281583

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 282015 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-4	WW4.5 SED (10/26/2015)	Soluble	Solid	350.1	281583
660-70053-5	WW4.0 SED (10/26/2015)	Soluble	Solid	350.1	281583
660-70053-6	WW3.5 SED (10/26/2015)	Soluble	Solid	350.1	281583
660-70082-5	WW3.0 SED (10/27/2015)	Soluble	Solid	350.1	281583
660-70082-6	WW2.5 SED (10/27/2015)	Soluble	Solid	350.1	281583
660-70082-6 MS	WW2.5 SED (10/27/2015)	Soluble	Solid	350.1	281583
660-70082-6 MSD	WW2.5 SED (10/27/2015)	Soluble	Solid	350.1	281583
660-70082-7	WW2.0 SED (10/27/2015)	Soluble	Solid	350.1	281583
660-70082-8	WW1.5 SED (10/27/2015)	Soluble	Solid	350.1	281583
660-70082-9	WW1.0 SED (10/27/2015)	Soluble	Solid	350.1	281583
LCS 400-281561/5-A	Lab Control Sample	Soluble	Solid	350.1	281561
LCS 400-281583/5-A	Lab Control Sample	Soluble	Solid	350.1	281583
MB 400-281561/4-A	Method Blank	Soluble	Solid	350.1	281561
MB 400-281583/4-A	Method Blank	Soluble	Solid	350.1	281583
MB 400-281583/4-A	Method Blank	Soluble	Solid	350.1	281583
MRL 400-282015/11	Lab Control Sample	Total/NA	Solid	350.1	

Leach Batch: 282060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-7	HM 5.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-8	HM 4.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-9	HM 4.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-10	HM 3.5 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-11	HM 3.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-11 MS	HM 3.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-11 MSD	HM 3.0 SED (10/21/2015)	Soluble	Solid	DI Leach	
660-69974-14	HM SED 2.5 (10/21/2015)	Soluble	Solid	DI Leach	
660-70002-5	HM2.0SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-6	HM1.5SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-7	HM1.0SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-8	WW9.5SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-9	WW9.0SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70002-10	WW8.5SED(10/22/2015)	Soluble	Solid	DI Leach	
660-70026-5	WW8.0SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-6	WW7.5SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-7	WW7.0SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-8	WW6.5SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70026-9	WW6.0SED(10/23/2015)	Soluble	Solid	DI Leach	
660-70053-1	WW5.5 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-2	WW5.25 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-3	WW5.0 SED (10/26/2015)	Soluble	Solid	DI Leach	
LCS 400-282060/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-282060/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 282067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-12	CZ 5.5 SED (10/15/2015)	Soluble	Solid	9038	281998
660-69852-12 MS	CZ 5.5 SED (10/15/2015)	Soluble	Solid	9038	281998
660-69852-12 MSD	CZ 5.5 SED (10/15/2015)	Soluble	Solid	9038	281998
660-69852-13	CZ 6.0 SED (10/15/2015)	Soluble	Solid	9038	281998
660-69879-7	CZ 6.5 SED (10/16/2015)	Soluble	Solid	9038	281998

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 282067 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69879-8	CZ 7.0 SED (10/16/2015)	Soluble	Solid	9038	281998
660-69879-9	CZ 7.5 SED (10/16/2015)	Soluble	Solid	9038	281998
660-69879-10	CZ 8.0 SED (10/16/2015)	Soluble	Solid	9038	281998
660-69879-11	CZ 8.5 SED (10/16/2015)	Soluble	Solid	9038	281998
660-69879-12	CZ 9.0 SED (10/16/2015)	Soluble	Solid	9038	281998
660-69879-13	CZ 9.5 SED (10/16/2015)	Soluble	Solid	9038	281998
660-69893-5	HM 10.5 SED (10/19/2015)	Soluble	Solid	9038	281998
660-69893-6	HM 10.0 SED (10/19/2015)	Soluble	Solid	9038	281998
660-69893-7	HM 9.5 SED (10/19/2015)	Soluble	Solid	9038	281998
660-69893-8	HM 9.0 SED (10/19/2015)	Soluble	Solid	9038	281998
660-69919-13	HM8.5 SED (10/20/2015)	Soluble	Solid	9038	281998
660-69974-1	HM 8.0SED (10/21/2015)	Soluble	Solid	9038	281998
660-69974-2	HM 7.5 SED (10/21/2015)	Soluble	Solid	9038	281998
660-69974-3	HM 7.0 SED (10/21/2015)	Soluble	Solid	9038	281998
660-69974-4	HM 6.5 SED (10/21/2015)	Soluble	Solid	9038	281998
660-69974-5	HM 6.0 SED (10/21/2015)	Soluble	Solid	9038	281998
660-69974-6	HM 5.5 SED (10/21/2015)	Soluble	Solid	9038	281998
660-69974-7	HM 5.0 SED (10/21/2015)	Soluble	Solid	9038	282060
660-69974-8	HM 4.5 SED (10/21/2015)	Soluble	Solid	9038	282060
660-69974-9	HM 4.0 SED (10/21/2015)	Soluble	Solid	9038	282060
660-69974-10	HM 3.5 SED (10/21/2015)	Soluble	Solid	9038	282060
660-69974-11	HM 3.0 SED (10/21/2015)	Soluble	Solid	9038	282060
660-69974-11 MS	HM 3.0 SED (10/21/2015)	Soluble	Solid	9038	282060
660-69974-11 MSD	HM 3.0 SED (10/21/2015)	Soluble	Solid	9038	282060
660-69974-14	HM SED 2.5 (10/21/2015)	Soluble	Solid	9038	282060
660-70002-5	HM2.0SED(10/22/2015)	Soluble	Solid	9038	282060
660-70002-6	HM1.5SED(10/22/2015)	Soluble	Solid	9038	282060
660-70002-7	HM1.0SED(10/22/2015)	Soluble	Solid	9038	282060
660-70002-8	WW9.5SED(10/22/2015)	Soluble	Solid	9038	282060
660-70002-9	WW9.0SED(10/22/2015)	Soluble	Solid	9038	282060
660-70002-10	WW8.5SED(10/22/2015)	Soluble	Solid	9038	282060
660-70026-5	WW8.0SED(10/23/2015)	Soluble	Solid	9038	282060
660-70026-6	WW7.5SED(10/23/2015)	Soluble	Solid	9038	282060
660-70026-7	WW7.0SED(10/23/2015)	Soluble	Solid	9038	282060
660-70026-8	WW6.5SED(10/23/2015)	Soluble	Solid	9038	282060
660-70026-9	WW6.0SED(10/23/2015)	Soluble	Solid	9038	282060
660-70053-1	WW5.5 SED (10/26/2015)	Soluble	Solid	9038	282060
660-70053-2	WW5.25 SED (10/26/2015)	Soluble	Solid	9038	282060
660-70053-3	WW5.0 SED (10/26/2015)	Soluble	Solid	9038	282060
LCS 400-281998/2-A	Lab Control Sample	Soluble	Solid	9038	281998
LCS 400-281998/2-A	Lab Control Sample	Soluble	Solid	9038	281998
MB 400-281998/1-A	Method Blank	Soluble	Solid	9038	281998
MB 400-281998/1-A	Method Blank	Soluble	Solid	9038	281998

Analysis Batch: 282068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69852-12	CZ 5.5 SED (10/15/2015)	Soluble	Solid	9251	281998
660-69852-12 MS	CZ 5.5 SED (10/15/2015)	Soluble	Solid	9251	281998
660-69852-12 MSD	CZ 5.5 SED (10/15/2015)	Soluble	Solid	9251	281998
660-69852-13	CZ 6.0 SED (10/15/2015)	Soluble	Solid	9251	281998
660-69879-7	CZ 6.5 SED (10/16/2015)	Soluble	Solid	9251	281998

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 282068 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69879-8	CZ 7.0 SED (10/16/2015)	Soluble	Solid	9251	281998
660-69879-9	CZ 7.5 SED (10/16/2015)	Soluble	Solid	9251	281998
660-69879-10	CZ 8.0 SED (10/16/2015)	Soluble	Solid	9251	281998
660-69879-11	CZ 8.5 SED (10/16/2015)	Soluble	Solid	9251	281998
660-69879-12	CZ 9.0 SED (10/16/2015)	Soluble	Solid	9251	281998
660-69879-13	CZ 9.5 SED (10/16/2015)	Soluble	Solid	9251	281998
660-69893-5	HM 10.5 SED (10/19/2015)	Soluble	Solid	9251	281998
660-69893-6	HM 10.0 SED (10/19/2015)	Soluble	Solid	9251	281998
660-69893-7	HM 9.5 SED (10/19/2015)	Soluble	Solid	9251	281998
660-69893-8	HM 9.0 SED (10/19/2015)	Soluble	Solid	9251	281998
660-69919-13	HM8.5 SED (10/20/2015)	Soluble	Solid	9251	281998
660-69974-1	HM 8.0SED (10/21/2015)	Soluble	Solid	9251	281998
660-69974-2	HM 7.5 SED (10/21/2015)	Soluble	Solid	9251	281998
660-69974-3	HM 7.0 SED (10/21/2015)	Soluble	Solid	9251	281998
660-69974-4	HM 6.5 SED (10/21/2015)	Soluble	Solid	9251	281998
660-69974-5	HM 6.0 SED (10/21/2015)	Soluble	Solid	9251	281998
660-69974-6	HM 5.5 SED (10/21/2015)	Soluble	Solid	9251	281998
660-69974-7	HM 5.0 SED (10/21/2015)	Soluble	Solid	9251	282060
660-69974-8	HM 4.5 SED (10/21/2015)	Soluble	Solid	9251	282060
660-69974-9	HM 4.0 SED (10/21/2015)	Soluble	Solid	9251	282060
660-69974-10	HM 3.5 SED (10/21/2015)	Soluble	Solid	9251	282060
660-69974-11	HM 3.0 SED (10/21/2015)	Soluble	Solid	9251	282060
660-69974-11 MS	HM 3.0 SED (10/21/2015)	Soluble	Solid	9251	282060
660-69974-11 MSD	HM 3.0 SED (10/21/2015)	Soluble	Solid	9251	282060
660-69974-14	HM SED 2.5 (10/21/2015)	Soluble	Solid	9251	282060
660-70002-5	HM2.0SED(10/22/2015)	Soluble	Solid	9251	282060
660-70002-6	HM1.5SED(10/22/2015)	Soluble	Solid	9251	282060
660-70002-7	HM1.0SED(10/22/2015)	Soluble	Solid	9251	282060
660-70002-8	WW9.5SED(10/22/2015)	Soluble	Solid	9251	282060
660-70002-9	WW9.0SED(10/22/2015)	Soluble	Solid	9251	282060
660-70002-10	WW8.5SED(10/22/2015)	Soluble	Solid	9251	282060
660-70026-5	WW8.0SED(10/23/2015)	Soluble	Solid	9251	282060
660-70026-6	WW7.5SED(10/23/2015)	Soluble	Solid	9251	282060
660-70026-7	WW7.0SED(10/23/2015)	Soluble	Solid	9251	282060
660-70026-8	WW6.5SED(10/23/2015)	Soluble	Solid	9251	282060
660-70026-9	WW6.0SED(10/23/2015)	Soluble	Solid	9251	282060
660-70053-1	WW5.5 SED (10/26/2015)	Soluble	Solid	9251	282060
660-70053-2	WW5.25 SED (10/26/2015)	Soluble	Solid	9251	282060
660-70053-3	WW5.0 SED (10/26/2015)	Soluble	Solid	9251	282060
LCS 400-281998/2-A	Lab Control Sample	Soluble	Solid	9251	281998
LCS 400-282060/2-A	Lab Control Sample	Soluble	Solid	9251	282060
MB 400-281998/1-A	Method Blank	Soluble	Solid	9251	281998
MB 400-282060/1-A	Method Blank	Soluble	Solid	9251	282060

Analysis Batch: 282186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-1	WW2.5 SW (10/27/2015)	Total/NA	Water	350.1	
660-70082-2	WW2.5 PW (10/27/2015)	Total/NA	Water	350.1	
660-70082-3	WW1.5 SW (10/27/2015)	Total/NA	Water	350.1	
660-70082-4	WW1.5 PW (10/27/2015)	Total/NA	Water	350.1	
LCS 400-282186/9	Lab Control Sample	Total/NA	Water	350.1	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 282186 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-282186/8	Method Blank	Total/NA	Water	350.1	
MRL 400-282186/3	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 282218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-13	HM 2.5 PW (10/21/2015)	Total/NA	Water	350.1	
660-70002-1	HM1.5 SW(10/22/2015)	Total/NA	Water	350.1	
660-70002-2	HM1.5 PW(10/22/2015)	Total/NA	Water	350.1	
660-70002-3	WW8.5SW(10/22/2015)	Total/NA	Water	350.1	
660-70002-4	WW8.5PW(10/22/2015)	Total/NA	Water	350.1	
660-70026-1	WW7.5SW(10/23/2015)	Total/NA	Water	350.1	
660-70026-2	WW7.5 PW(10/23/2015)	Total/NA	Water	350.1	
660-70026-3	WW6.5SW(10/23/2015)	Total/NA	Water	350.1	
660-70026-4	WW6.5PW(10/23/2015)	Total/NA	Water	350.1	
660-70053-7	WW5.5 SW (10/26/2015)	Total/NA	Water	350.1	
660-70053-8	WW5.5 PW (10/26/2015)	Total/NA	Water	350.1	
660-70053-9	WW5.25 SW (10/26/2015)	Total/NA	Water	350.1	
660-70053-10	WW5.25 PW (10/26/2015)	Total/NA	Water	350.1	
LCS 400-282218/9	Lab Control Sample	Total/NA	Water	350.1	
MB 400-282218/8	Method Blank	Total/NA	Water	350.1	
MRL 400-282218/3	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 282233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-11	WW4.5 SW (10/26/2015)	Total/NA	Water	350.1	
660-70053-12	WW4.5 PW (10/26/2015)	Total/NA	Water	350.1	
660-70053-13	WW3.5 SW (10/26/2015)	Total/NA	Water	350.1	
660-70053-14	WW3.5 PW (10/26/2015)	Total/NA	Water	350.1	
LCS 400-282233/17	Lab Control Sample	Total/NA	Water	350.1	
MB 400-282233/16	Method Blank	Total/NA	Water	350.1	
MRL 400-282233/11	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 282264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-11	HM 3.0 SED (10/21/2015)	Total/NA	Solid	351.2	281976
LCS 400-281976/2-A	Lab Control Sample	Total/NA	Solid	351.2	281976
MB 400-281976/1-A	Method Blank	Total/NA	Solid	351.2	281976
MRL 400-282264/11	Lab Control Sample	Total/NA	Solid	351.2	

Analysis Batch: 282292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-1	HM 8.0SED (10/21/2015)	Soluble	Solid	Nitrate by calc	
660-69974-2	HM 7.5 SED (10/21/2015)	Soluble	Solid	Nitrate by calc	
660-69974-3	HM 7.0 SED (10/21/2015)	Soluble	Solid	Nitrate by calc	
660-69974-4	HM 6.5 SED (10/21/2015)	Soluble	Solid	Nitrate by calc	
660-69974-5	HM 6.0 SED (10/21/2015)	Soluble	Solid	Nitrate by calc	
660-69974-6	HM 5.5 SED (10/21/2015)	Soluble	Solid	Nitrate by calc	
660-69974-7	HM 5.0 SED (10/21/2015)	Soluble	Solid	Nitrate by calc	
660-69974-8	HM 4.5 SED (10/21/2015)	Soluble	Solid	Nitrate by calc	
660-69974-9	HM 4.0 SED (10/21/2015)	Soluble	Solid	Nitrate by calc	
660-69974-10	HM 3.5 SED (10/21/2015)	Soluble	Solid	Nitrate by calc	

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QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 282292 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69974-11	HM 3.0 SED (10/21/2015)	Soluble	Solid	Nitrate by calc	
660-69974-14	HM SED 2.5 (10/21/2015)	Soluble	Solid	Nitrate by calc	
660-70002-5	HM2.0SED(10/22/2015)	Soluble	Solid	Nitrate by calc	
660-70002-6	HM1.5SED(10/22/2015)	Soluble	Solid	Nitrate by calc	
660-70002-7	HM1.0SED(10/22/2015)	Soluble	Solid	Nitrate by calc	
660-70002-8	WW9.5SED(10/22/2015)	Soluble	Solid	Nitrate by calc	
660-70002-9	WW9.0SED(10/22/2015)	Soluble	Solid	Nitrate by calc	
660-70002-10	WW8.5SED(10/22/2015)	Soluble	Solid	Nitrate by calc	
660-70026-5	WW8.0SED(10/23/2015)	Soluble	Solid	Nitrate by calc	
660-70026-6	WW7.5SED(10/23/2015)	Soluble	Solid	Nitrate by calc	
660-70026-7	WW7.0SED(10/23/2015)	Soluble	Solid	Nitrate by calc	
660-70026-8	WW6.5SED(10/23/2015)	Soluble	Solid	Nitrate by calc	
660-70026-9	WW6.0SED(10/23/2015)	Soluble	Solid	Nitrate by calc	
660-70053-1	WW5.5 SED (10/26/2015)	Soluble	Solid	Nitrate by calc	
660-70053-2	WW5.25 SED (10/26/2015)	Soluble	Solid	Nitrate by calc	
660-70053-3	WW5.0 SED (10/26/2015)	Soluble	Solid	Nitrate by calc	
660-70053-4	WW 4.5 SED (10/26/2015)	Soluble	Solid	Nitrate by calc	
660-70053-5	WW4.0 SED (10/26/2015)	Soluble	Solid	Nitrate by calc	
660-70053-6	WW3.5 SED (10/26/2015)	Soluble	Solid	Nitrate by calc	
660-70082-5	WW3.0 SED (10/27/2015)	Soluble	Solid	Nitrate by calc	
660-70082-6	WW2.5 SED (10/27/2015)	Soluble	Solid	Nitrate by calc	
660-70082-7	WW2.0 SED (10/27/2015)	Soluble	Solid	Nitrate by calc	
660-70082-8	WW1.5 SED (10/27/2015)	Soluble	Solid	Nitrate by calc	
660-70082-9	WW1.0 SED (10/27/2015)	Soluble	Solid	Nitrate by calc	

Analysis Batch: 282326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69823-1	CZ 0.5 SED (10/14/2015)	Soluble	Solid	Nitrate by calc	
660-69823-4	CZ 1.0 SED (10/14/2015)	Soluble	Solid	Nitrate by calc	
660-69823-5	CZ 1.5 SED (10/14/2015)	Soluble	Solid	Nitrate by calc	
660-69823-8	CZ 2.0 SED (10/14/2015)	Soluble	Solid	Nitrate by calc	
660-69823-9	CZ 2.5 SED (10/14/2015)	Soluble	Solid	Nitrate by calc	
660-69852-7	CZ 3.0 SED (10/15/2015)	Soluble	Solid	Nitrate by calc	
660-69852-8	CZ 3.5 SED (10/15/2015)	Soluble	Solid	Nitrate by calc	
660-69852-9	CZ 4.0 SED (10/15/2015)	Soluble	Solid	Nitrate by calc	
660-69852-10	CZ 4.5 SED (10/15/2015)	Soluble	Solid	Nitrate by calc	
660-69852-11	CZ 5.0 SED (10/15/2015)	Soluble	Solid	Nitrate by calc	
660-69852-12	CZ 5.5 SED (10/15/2015)	Soluble	Solid	Nitrate by calc	
660-69852-13	CZ 6.0 SED (10/15/2015)	Soluble	Solid	Nitrate by calc	
660-69879-7	CZ 6.5 SED (10/16/2015)	Soluble	Solid	Nitrate by calc	
660-69879-8	CZ 7.0 SED (10/16/2015)	Soluble	Solid	Nitrate by calc	
660-69879-9	CZ 7.5 SED (10/16/2015)	Soluble	Solid	Nitrate by calc	
660-69879-10	CZ 8.0 SED (10/16/2015)	Soluble	Solid	Nitrate by calc	
660-69879-11	CZ 8.5 SED (10/16/2015)	Soluble	Solid	Nitrate by calc	
660-69879-12	CZ 9.0 SED (10/16/2015)	Soluble	Solid	Nitrate by calc	
660-69879-13	CZ 9.5 SED (10/16/2015)	Soluble	Solid	Nitrate by calc	
660-69893-5	HM 10.5 SED (10/19/2015)	Soluble	Solid	Nitrate by calc	
660-69893-6	HM 10.0 SED (10/19/2015)	Soluble	Solid	Nitrate by calc	
660-69893-7	HM 9.5 SED (10/19/2015)	Soluble	Solid	Nitrate by calc	
660-69893-8	HM 9.0 SED (10/19/2015)	Soluble	Solid	Nitrate by calc	
660-69919-13	HM8.5 SED (10/20/2015)	Soluble	Solid	Nitrate by calc	

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QC Association Summary

Client: ARCADIS U.S., Inc.
 Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Analysis Batch: 282327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-68566-3	CZ 10 SED (08/12/2015)	Total/NA	Solid	Moisture	
660-68601-3	WW 10 SED (08/13/2015)	Total/NA	Solid	Moisture	
660-69823-1	CZ 0.5 SED (10/14/2015)	Total/NA	Solid	Moisture	
660-69823-1 DU	CZ 0.5 SED (10/14/2015)	Total/NA	Solid	Moisture	
660-69823-4	CZ 1.0 SED (10/14/2015)	Total/NA	Solid	Moisture	
660-69823-5	CZ 1.5 SED (10/14/2015)	Total/NA	Solid	Moisture	
660-69823-8	CZ 2.0 SED (10/14/2015)	Total/NA	Solid	Moisture	
660-69823-9	CZ 2.5 SED (10/14/2015)	Total/NA	Solid	Moisture	
660-70082-9	WW1.0 SED (10/27/2015)	Total/NA	Solid	Moisture	

Analysis Batch: 282388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-69879-5	CZ 8.5 SW (10/16/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69879-6	CZ 8.5 PW (10/16/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69893-1	HM 10.5 SW (10/19/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69893-1 MS	HM 10.5 SW (10/19/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69893-1 MSD	HM 10.5 SW (10/19/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69893-2	HM 10.5 PW (10/19/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69893-3	HM 9.5 SW (10/19/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69893-4	HM 9.5 PW (10/19/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69919-1	HM8.5 SW (10/20/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69919-2	HM8.5 PW (10/20/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69919-3	HM7.5 SW (10/20/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69919-4	HM7.5 PW (10/20/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69919-5	HM6.5 SW (10-20-2015)	Total/NA	Water	SM 4500 SO4 E	
660-69919-6	HM6.5 PW (10-20-2015)	Total/NA	Water	SM 4500 SO4 E	
660-69919-7	HM5.5 SW (10-20-2015)	Total/NA	Water	SM 4500 SO4 E	
660-69919-8	HM5.5 PW (10-20-2015)	Total/NA	Water	SM 4500 SO4 E	
660-69919-9	HM4.5 SW(10/20/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69919-10	HM4.5 PW (10-20-2015)	Total/NA	Water	SM 4500 SO4 E	
660-69919-11	HM3.5 SW (10-20-2015)	Total/NA	Water	SM 4500 SO4 E	
660-69919-12	HM3.5 PW (10/20/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69974-12	HM 2.5 SW (10/21/2015)	Total/NA	Water	SM 4500 SO4 E	
660-69974-13	HM 2.5 PW (10/21/2015)	Total/NA	Water	SM 4500 SO4 E	
LCS 400-282388/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MB 400-282388/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MRL 400-282388/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 282407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-4	WW4.5 SED (10/26/2015)	Soluble	Solid	9251	282409
660-70053-5	WW4.0 SED (10/26/2015)	Soluble	Solid	9251	282409
660-70053-6	WW3.5 SED (10/26/2015)	Soluble	Solid	9251	282409
660-70053-6 MS	WW3.5 SED (10/26/2015)	Soluble	Solid	9251	282409
660-70053-6 MSD	WW3.5 SED (10/26/2015)	Soluble	Solid	9251	282409
660-70053-11	WW4.5 SW (10/26/2015)	Total/NA	Water	SM 4500 Cl- E	
660-70053-11 MS	WW4.5 SW (10/26/2015)	Total/NA	Water	SM 4500 Cl- E	
660-70053-11 MSD	WW4.5 SW (10/26/2015)	Total/NA	Water	SM 4500 Cl- E	
660-70053-12	WW4.5 PW (10/26/2015)	Total/NA	Water	SM 4500 Cl- E	
660-70053-13	WW3.5 SW (10/26/2015)	Total/NA	Water	SM 4500 Cl- E	
660-70053-14	WW3.5 PW (10/26/2015)	Total/NA	Water	SM 4500 Cl- E	
LCS 400-282407/11	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
LCS 400-282409/2-A	Lab Control Sample	Soluble	Solid	9251	282409

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 282407 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-282407/5	Method Blank	Total/NA	Water	SM 4500 Cl- E	
MB 400-282409/1-A	Method Blank	Soluble	Solid	9251	282409
MRL 400-282407/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 282408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70002-1	HM1.5 SW(10/22/2015)	Total/NA	Water	SM 4500 SO4 E	
660-70002-2	HM1.5 PW(10/22/2015)	Total/NA	Water	SM 4500 SO4 E	
660-70002-3	WW8.5SW(10/22/2015)	Total/NA	Water	SM 4500 SO4 E	
660-70002-4	WW8.5PW(10/22/2015)	Total/NA	Water	SM 4500 SO4 E	
660-70026-1	WW7.5SW(10/23/2015)	Total/NA	Water	SM 4500 SO4 E	
660-70026-2	WW7.5 PW(10/23/2015)	Total/NA	Water	SM 4500 SO4 E	
660-70026-3	WW6.5SW(10/23/2015)	Total/NA	Water	SM 4500 SO4 E	
660-70026-4	WW6.5PW(10/23/2015)	Total/NA	Water	SM 4500 SO4 E	
660-70053-4	WW.4.5 SED (10/26/2015)	Soluble	Solid	9038	282409
660-70053-5	WW4.0 SED (10/26/2015)	Soluble	Solid	9038	282409
660-70053-6	WW3.5 SED (10/26/2015)	Soluble	Solid	9038	282409
660-70053-6 MS	WW3.5 SED (10/26/2015)	Soluble	Solid	9038	282409
660-70053-6 MSD	WW3.5 SED (10/26/2015)	Soluble	Solid	9038	282409
660-70053-7	WW5.5 SW (10/26/2015)	Total/NA	Water	SM 4500 SO4 E	
660-70053-8	WW5.5 PW (10/26/2015)	Total/NA	Water	SM 4500 SO4 E	
660-70053-9	WW5.25 SW (10/26/2015)	Total/NA	Water	SM 4500 SO4 E	
660-70053-10	WW5.25 PW (10/26/2015)	Total/NA	Water	SM 4500 SO4 E	
660-70053-11	WW4.5 SW (10/26/2015)	Total/NA	Water	SM 4500 SO4 E	
660-70053-11 MS	WW4.5 SW (10/26/2015)	Total/NA	Water	SM 4500 SO4 E	
660-70053-11 MSD	WW4.5 SW (10/26/2015)	Total/NA	Water	SM 4500 SO4 E	
660-70053-12	WW4.5 PW (10/26/2015)	Total/NA	Water	SM 4500 SO4 E	
660-70053-13	WW3.5 SW (10/26/2015)	Total/NA	Water	SM 4500 SO4 E	
660-70053-14	WW3.5 PW (10/26/2015)	Total/NA	Water	SM 4500 SO4 E	
LCS 400-282408/4	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
LCS 400-282409/2-A	Lab Control Sample	Soluble	Solid	9038	282409
MB 400-282408/3	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MB 400-282409/1-A	Method Blank	Soluble	Solid	9038	282409

Leach Batch: 282409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70053-4	WW.4.5 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-5	WW4.0 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-6	WW3.5 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-6 MS	WW3.5 SED (10/26/2015)	Soluble	Solid	DI Leach	
660-70053-6 MSD	WW3.5 SED (10/26/2015)	Soluble	Solid	DI Leach	
LCS 400-282409/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-282409/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 282651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-1	WW2.5 SW (10/27/2015)	Total/NA	Water	SM 4500 SO4 E	
660-70082-1 MS	WW2.5 SW (10/27/2015)	Total/NA	Water	SM 4500 SO4 E	
660-70082-1 MSD	WW2.5 SW (10/27/2015)	Total/NA	Water	SM 4500 SO4 E	
660-70082-2	WW2.5 PW (10/27/2015)	Total/NA	Water	SM 4500 SO4 E	
660-70082-3	WW1.5 SW (10/27/2015)	Total/NA	Water	SM 4500 SO4 E	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

General Chemistry (Continued)

Analysis Batch: 282651 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-4	WW1.5 PW (10/27/2015)	Total/NA	Water	SM 4500 SO4 E	
LCS 400-282651/7	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MB 400-282651/6	Method Blank	Total/NA	Water	SM 4500 SO4 E	
MRL 400-282651/3	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 282652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 400-282652/3	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	

Leach Batch: 282655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-5	WW3.0 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-6	WW2.5 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-7	WW2.0 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-8	WW1.5 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-9	WW1.0 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-9 MS	WW1.0 SED (10/27/2015)	Soluble	Solid	DI Leach	
660-70082-9 MSD	WW1.0 SED (10/27/2015)	Soluble	Solid	DI Leach	
LCS 400-282655/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
MB 400-282655/1-A	Method Blank	Soluble	Solid	DI Leach	

Analysis Batch: 282656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-1	WW2.5 SW (10/27/2015)	Total/NA	Water	Total Nitrogen	
660-70082-2	WW2.5 PW (10/27/2015)	Total/NA	Water	Total Nitrogen	
660-70082-3	WW1.5 SW (10/27/2015)	Total/NA	Water	Total Nitrogen	
660-70082-4	WW1.5 PW (10/27/2015)	Total/NA	Water	Total Nitrogen	

Analysis Batch: 282689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-1	WW2.5 SW (10/27/2015)	Total/NA	Water	SM 4500 Cl- E	
660-70082-1 MS	WW2.5 SW (10/27/2015)	Total/NA	Water	SM 4500 Cl- E	
660-70082-1 MSD	WW2.5 SW (10/27/2015)	Total/NA	Water	SM 4500 Cl- E	
660-70082-2	WW2.5 PW (10/27/2015)	Total/NA	Water	SM 4500 Cl- E	
660-70082-3	WW1.5 SW (10/27/2015)	Total/NA	Water	SM 4500 Cl- E	
660-70082-4	WW1.5 PW (10/27/2015)	Total/NA	Water	SM 4500 Cl- E	
LCS 400-282689/8	Lab Control Sample	Total/NA	Water	SM 4500 Cl- E	
MB 400-282689/3	Method Blank	Total/NA	Water	SM 4500 Cl- E	

Analysis Batch: 282761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-5	WW3.0 SED (10/27/2015)	Soluble	Solid	9038	282655
660-70082-6	WW2.5 SED (10/27/2015)	Soluble	Solid	9038	282655
660-70082-7	WW2.0 SED (10/27/2015)	Soluble	Solid	9038	282655
660-70082-8	WW1.5 SED (10/27/2015)	Soluble	Solid	9038	282655
660-70082-9	WW1.0 SED (10/27/2015)	Soluble	Solid	9038	282655
660-70082-9 MS	WW1.0 SED (10/27/2015)	Soluble	Solid	9038	282655
660-70082-9 MSD	WW1.0 SED (10/27/2015)	Soluble	Solid	9038	282655
LCS 400-282655/2-A	Lab Control Sample	Soluble	Solid	9038	282655
MB 400-282655/1-A	Method Blank	Soluble	Solid	9038	282655
MRL 400-282761/3	Lab Control Sample	Total/NA	Solid	9038	

TestAmerica Tampa

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Analysis Batch: 282762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
660-70082-5	WW3.0 SED (10/27/2015)	Soluble	Solid	9251	282655
660-70082-6	WW2.5 SED (10/27/2015)	Soluble	Solid	9251	282655
660-70082-7	WW2.0 SED (10/27/2015)	Soluble	Solid	9251	282655
660-70082-8	WW1.5 SED (10/27/2015)	Soluble	Solid	9251	282655
660-70082-9	WW1.0 SED (10/27/2015)	Soluble	Solid	9251	282655
660-70082-9 MS	WW1.0 SED (10/27/2015)	Soluble	Solid	9251	282655
660-70082-9 MSD	WW1.0 SED (10/27/2015)	Soluble	Solid	9251	282655
LCS 400-282655/2-A	Lab Control Sample	Soluble	Solid	9251	282655
MB 400-282655/1-A	Method Blank	Soluble	Solid	9251	282655
MRL 400-282762/3	Lab Control Sample	Total/NA	Solid	9251	

- 1
- 2
- 3
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- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 10 SW (08/12/2015)

Date Collected: 08/12/15 13:26

Date Received: 08/13/15 06:45

Lab Sample ID: 660-68566-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162342	10/15/15 13:16	GAF	TAL TAM
Dissolved	Prep	3005A			162343	10/15/15 13:19	GAF	TAL TAM
Dissolved	Analysis	6010B		1	162381	10/16/15 09:29	GAF	TAL TAM
Total Recoverable	Prep	3005A			162343	10/15/15 12:57	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	162381	10/16/15 09:12	GAF	TAL TAM
Total/NA	Analysis	350.1		1	272251	08/31/15 14:10	JAT	TAL PEN
Total/NA	Prep	351.2			272357	09/01/15 10:06	KJR	TAL PEN
Total/NA	Analysis	351.2		1	272680	09/02/15 14:56	KJR	TAL PEN
Total/NA	Analysis	353.2		1	160651	08/13/15 15:33	ELE	TAL TAM
Total/NA	Analysis	353.2		1	272637	09/02/15 11:04	JAT	TAL PEN
Total/NA	Prep	365.2/365.3/365			118119	08/17/15 13:14	QMC	TAL TAL
Total/NA	Analysis	365.1		1	118133	08/18/15 12:24	QMC	TAL TAL
Dissolved	Filtration	FILTRATION			160506	08/14/15 12:00	ELE	TAL TAM
Dissolved	Analysis	365.2		1	160507	08/14/15 12:30	ELE	TAL TAM
Total/NA	Analysis	Nitrate by calc		1	160898	08/31/15 08:40	TJW	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		120	272730	09/02/15 15:38	NAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	272721	09/02/15 16:56	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	269870	08/14/15 18:21	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	272765	09/03/15 08:21	JMH	TAL PEN

Client Sample ID: CZ 10 PW (08/12/2015)

Date Collected: 08/12/15 15:00

Date Received: 08/13/15 06:45

Lab Sample ID: 660-68566-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162342	10/15/15 13:16	GAF	TAL TAM
Dissolved	Prep	3005A			162343	10/15/15 13:19	GAF	TAL TAM
Dissolved	Analysis	6010B		1	162381	10/16/15 09:33	GAF	TAL TAM
Dissolved	Filtration	FILTRATION			162342	10/15/15 13:16	GAF	TAL TAM
Dissolved	Prep	3005A			162343	10/15/15 13:19	GAF	TAL TAM
Dissolved	Analysis	6010B		2	162381	10/16/15 11:54	GAF	TAL TAM
Total Recoverable	Prep	3005A			162343	10/15/15 12:57	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	162381	10/16/15 09:16	GAF	TAL TAM
Total/NA	Analysis	350.1		1	272251	08/31/15 14:09	JAT	TAL PEN
Total/NA	Prep	351.2			272357	09/01/15 10:06	KJR	TAL PEN
Total/NA	Analysis	351.2		1	272680	09/02/15 14:57	KJR	TAL PEN
Total/NA	Analysis	353.2		1	160651	08/13/15 15:33	ELE	TAL TAM
Total/NA	Analysis	353.2		1	272637	09/02/15 11:05	JAT	TAL PEN
Total/NA	Prep	365.2/365.3/365			118119	08/17/15 13:14	QMC	TAL TAL
Total/NA	Analysis	365.1		1	118133	08/18/15 12:28	QMC	TAL TAL
Dissolved	Filtration	FILTRATION			160506	08/14/15 12:00	ELE	TAL TAM
Dissolved	Analysis	365.2		1	160507	08/14/15 12:30	ELE	TAL TAM

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 10 PW (08/12/2015)

Lab Sample ID: 660-68566-2

Date Collected: 08/12/15 15:00

Matrix: Water

Date Received: 08/13/15 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Nitrate by calc		1	160898	08/31/15 08:40	TJW	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		120	272730	09/02/15 15:38	NAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	272721	09/02/15 15:58	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	269870	08/14/15 18:22	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	272765	09/03/15 08:21	JMH	TAL PEN

Client Sample ID: CZ 10 SED (08/12/2015)

Lab Sample ID: 660-68566-3

Date Collected: 08/12/15 16:00

Matrix: Solid

Date Received: 08/13/15 06:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			278963	10/16/15 11:01	CLM	TAL PEN
Total/NA	Analysis	6010B		1	279391	10/17/15 10:21	GESP	TAL PEN
Soluble	Leach	DI Leach			272377	09/01/15 10:57	JAT	TAL PEN
Soluble	Analysis	350.1		1	272447	09/01/15 14:42	JAT	TAL PEN
Total/NA	Prep	351.2			272362	09/01/15 10:17	KJR	TAL PEN
Total/NA	Analysis	351.2		1	272696	09/02/15 15:40	KJR	TAL PEN
Soluble	Leach	DI Leach			270080	08/17/15 09:42	JAT	TAL PEN
Soluble	Analysis	353.2		1	270126	08/17/15 14:33	JAT	TAL PEN
Soluble	Leach	DI Leach			271996	08/29/15 09:03	LSS	TAL PEN
Soluble	Analysis	354.1		1	272036	08/29/15 10:40	LSS	TAL PEN
Soluble	Leach	DI Leach			269799	08/14/15 08:00	LSS	TAL PEN
Soluble	Analysis	365.1		1	269845	08/14/15 12:01	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			272361	09/01/15 10:16	KJR	TAL PEN
Total/NA	Analysis	365.4		1	272631	09/02/15 11:06	KJR	TAL PEN
Soluble	Leach	DI Leach			272675	09/02/15 15:09	NAB	TAL PEN
Soluble	Analysis	9038		1	272721	09/02/15 16:23	NAB	TAL PEN
Soluble	Leach	DI Leach			272675	09/02/15 15:09	NAB	TAL PEN
Soluble	Analysis	9251		2	272730	09/02/15 18:39	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	282327	11/06/15 14:33	SCA	TAL PEN
Soluble	Analysis	Nitrate by calc		1	270133	08/17/15 14:33	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	272765	09/03/15 08:21	JMH	TAL PEN

Client Sample ID: WW 10 SW (08/13/2015)

Lab Sample ID: 660-68601-1

Date Collected: 08/13/15 11:30

Matrix: Water

Date Received: 08/14/15 06:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162342	10/15/15 13:16	GAF	TAL TAM
Dissolved	Prep	3005A			162343	10/15/15 13:25	GAF	TAL TAM
Dissolved	Analysis	6010B		2	162381	10/16/15 11:58	GAF	TAL TAM
Total Recoverable	Prep	3005A			162343	10/15/15 12:57	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	162381	10/16/15 09:19	GAF	TAL TAM

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	272251	08/31/15 14:11	JAT	TAL PEN
Total/NA	Prep	351.2			272357	09/01/15 10:06	KJR	TAL PEN
Total/NA	Analysis	351.2		1	272680	09/02/15 15:00	KJR	TAL PEN
Total/NA	Analysis	353.2		1	160767	08/14/15 11:53	ELE	TAL TAM
Total/NA	Analysis	353.2		1	272637	09/02/15 11:06	JAT	TAL PEN
Total/NA	Prep	365.2/365.3/365			118138	08/20/15 09:09	QMC	TAL TAL
Total/NA	Analysis	365.1		1	118149	08/21/15 09:12	QMC	TAL TAL
Dissolved	Filtration	FILTRATION			160506	08/14/15 12:00	ELE	TAL TAM
Dissolved	Analysis	365.2		1	160507	08/14/15 12:30	ELE	TAL TAM
Total/NA	Analysis	Nitrate by calc		1	160898	08/31/15 08:40	TJW	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		1	272730	09/02/15 15:09	NAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	272721	09/02/15 15:15	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	270151	08/17/15 16:16	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	272765	09/03/15 08:21	JMH	TAL PEN

Client Sample ID: WW 10 PW (08/13/2015)

Lab Sample ID: 660-68601-2

Date Collected: 08/13/15 11:00

Matrix: Water

Date Received: 08/14/15 06:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162342	10/15/15 13:16	GAF	TAL TAM
Dissolved	Prep	3005A			162343	10/15/15 13:25	GAF	TAL TAM
Dissolved	Analysis	6010B		1	162381	10/16/15 09:50	GAF	TAL TAM
Total Recoverable	Prep	3005A			162343	10/15/15 12:57	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	162381	10/16/15 09:23	GAF	TAL TAM
Total/NA	Analysis	350.1		1	272251	08/31/15 14:12	JAT	TAL PEN
Total/NA	Prep	351.2			272357	09/01/15 10:06	KJR	TAL PEN
Total/NA	Analysis	351.2		1	272680	09/02/15 15:01	KJR	TAL PEN
Total/NA	Analysis	353.2		1	160767	08/14/15 11:53	ELE	TAL TAM
Total/NA	Analysis	353.2		1	272637	09/02/15 11:07	JAT	TAL PEN
Total/NA	Prep	365.2/365.3/365			118138	08/20/15 09:09	QMC	TAL TAL
Total/NA	Analysis	365.1		1	118149	08/21/15 09:33	QMC	TAL TAL
Dissolved	Filtration	FILTRATION			160506	08/14/15 12:00	ELE	TAL TAM
Dissolved	Analysis	365.2		1	160507	08/14/15 12:30	ELE	TAL TAM
Total/NA	Analysis	Nitrate by calc		1	160898	08/31/15 08:40	TJW	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		100	272730	09/02/15 17:36	NAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	272721	09/02/15 16:56	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	270151	08/17/15 16:16	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	272765	09/03/15 08:21	JMH	TAL PEN

Client Sample ID: WW 10 SED (08/13/2015)

Lab Sample ID: 660-68601-3

Date Collected: 08/13/15 09:55

Matrix: Solid

Date Received: 08/14/15 06:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			278963	10/16/15 11:01	CLM	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW 10 SED (08/13/2015)

Lab Sample ID: 660-68601-3

Date Collected: 08/13/15 09:55

Matrix: Solid

Date Received: 08/14/15 06:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		1	279391	10/17/15 10:34	GESP	TAL PEN
Soluble	Leach	DI Leach			272377	09/01/15 10:57	JAT	TAL PEN
Soluble	Analysis	350.1		1	272447	09/01/15 14:46	JAT	TAL PEN
Total/NA	Prep	351.2			272362	09/01/15 10:17	KJR	TAL PEN
Total/NA	Analysis	351.2		1	272696	09/02/15 15:43	KJR	TAL PEN
Soluble	Leach	DI Leach			270080	08/17/15 09:43	JAT	TAL PEN
Soluble	Analysis	353.2		1	270126	08/17/15 14:34	JAT	TAL PEN
Soluble	Leach	DI Leach			271996	08/29/15 09:03	LSS	TAL PEN
Soluble	Analysis	354.1		1	272036	08/29/15 10:40	LSS	TAL PEN
Soluble	Leach	DI Leach			269916	08/15/15 10:24	LSS	TAL PEN
Soluble	Analysis	365.1		1	269966	08/15/15 12:59	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			272361	09/01/15 10:16	KJR	TAL PEN
Total/NA	Analysis	365.4		1	272631	09/02/15 11:09	KJR	TAL PEN
Soluble	Leach	DI Leach			272675	09/02/15 15:09	NAB	TAL PEN
Soluble	Analysis	9038		1	272721	09/02/15 16:23	NAB	TAL PEN
Soluble	Leach	DI Leach			272675	09/02/15 15:09	NAB	TAL PEN
Soluble	Analysis	9251		1	272730	09/02/15 16:17	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	282327	11/06/15 14:33	SCA	TAL PEN
Soluble	Analysis	Nitrate by calc		1	270133	08/17/15 14:34	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	272765	09/03/15 08:21	JMH	TAL PEN

Client Sample ID: CZ 0.5 SED (10/14/2015)

Lab Sample ID: 660-69823-1

Date Collected: 10/14/15 10:00

Matrix: Solid

Date Received: 10/15/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			279662	10/21/15 06:43	DN1	TAL PEN
Total/NA	Analysis	6010B		1	280161	10/22/15 19:01	GESP	TAL PEN
Soluble	Leach	DI Leach			280027	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 16:55	JAT	TAL PEN
Total/NA	Prep	351.2			279168	10/16/15 10:18	KJR	TAL PEN
Total/NA	Analysis	351.2		1	279703	10/20/15 15:27	KJR	TAL PEN
Soluble	Leach	DI Leach			280061	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 18:42	JAT	TAL PEN
Soluble	Leach	DI Leach			279287	10/16/15 14:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	279280	10/16/15 15:32	LSS	TAL PEN
Soluble	Leach	DI Leach			279289	10/16/15 14:00	LSS	TAL PEN
Soluble	Analysis	365.1		1	279281	10/16/15 15:50	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			279169	10/16/15 16:30	KJR	TAL PEN
Total/NA	Analysis	365.4		1	279639	10/20/15 10:59	KJR	TAL PEN
Soluble	Leach	DI Leach			281729	10/30/15 13:00	NAB	TAL PEN
Soluble	Analysis	9038		1	281780	11/03/15 12:39	NAB	TAL PEN
Soluble	Leach	DI Leach			281729	10/30/15 13:00	NAB	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 0.5 SED (10/14/2015)

Lab Sample ID: 660-69823-1

Date Collected: 10/14/15 10:00

Matrix: Solid

Date Received: 10/15/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Analysis	9251		1	281781	11/03/15 12:48	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	282327	11/06/15 14:33	SCA	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 18:42	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

Client Sample ID: CZ 0.5 SW (10/14/2015)

Lab Sample ID: 660-69823-2

Date Collected: 10/14/15 10:15

Matrix: Water

Date Received: 10/15/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			162719	10/27/15 10:57	ASD	TAL TAM
Dissolved	Filtration	FILTRATION			162728	10/27/15 11:00	ASD	TAL TAM
Dissolved	Analysis	6010B		1	162808	10/28/15 17:01	ASD	TAL TAM
Total Recoverable	Prep	3005A			162719	10/27/15 10:51	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	162808	10/28/15 16:10	ASD	TAL TAM
Total/NA	Analysis	350.1		1	280774	10/27/15 16:41	JAT	TAL PEN
Total/NA	Prep	351.2			279474	10/19/15 11:22	KJR	TAL PEN
Total/NA	Analysis	351.2		1	279716	10/20/15 16:14	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162379	10/15/15 16:42	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281116	10/29/15 10:42	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162404	10/15/15 14:40	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162405	10/15/15 14:50	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			279475	10/19/15 11:24	KJR	TAL PEN
Total/NA	Analysis	365.4		1	279647	10/20/15 11:50	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		10	280335	10/24/15 09:42	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		2	281411	10/31/15 09:47	LSS	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	279619	10/20/15 09:51	LSS	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281894	11/04/15 10:13	JAT	TAL PEN

Client Sample ID: CZ 0.5 PW (10/14/2015)

Lab Sample ID: 660-69823-3

Date Collected: 10/14/15 10:15

Matrix: Water

Date Received: 10/15/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			162719	10/27/15 10:57	ASD	TAL TAM
Dissolved	Filtration	FILTRATION			162728	10/27/15 11:00	ASD	TAL TAM
Dissolved	Analysis	6010B		1	162808	10/28/15 17:04	ASD	TAL TAM
Total Recoverable	Prep	3005A			162719	10/27/15 10:51	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	162808	10/28/15 16:23	ASD	TAL TAM
Total/NA	Analysis	350.1		1	280774	10/27/15 16:43	JAT	TAL PEN
Total/NA	Prep	351.2			279474	10/19/15 11:22	KJR	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 0.5 PW (10/14/2015)

Lab Sample ID: 660-69823-3

Date Collected: 10/14/15 10:15

Matrix: Water

Date Received: 10/15/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	351.2		1	279716	10/20/15 16:18	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162379	10/15/15 16:43	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281116	10/29/15 10:43	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162404	10/15/15 14:40	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162405	10/15/15 14:50	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			279475	10/19/15 11:24	KJR	TAL PEN
Total/NA	Analysis	365.4		1	279647	10/20/15 11:53	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		50	280347	10/24/15 11:55	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		15	281411	10/31/15 12:05	LSS	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	279619	10/20/15 09:51	LSS	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281894	11/04/15 10:13	JAT	TAL PEN

Client Sample ID: CZ 1.0 SED (10/14/2015)

Lab Sample ID: 660-69823-4

Date Collected: 10/14/15 11:51

Matrix: Solid

Date Received: 10/15/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			279662	10/21/15 06:43	DN1	TAL PEN
Total/NA	Analysis	6010B		1	280161	10/22/15 19:04	GESP	TAL PEN
Soluble	Leach	DI Leach			280027	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 16:59	JAT	TAL PEN
Total/NA	Prep	351.2			279168	10/16/15 16:28	KJR	TAL PEN
Total/NA	Analysis	351.2		1	279703	10/20/15 15:28	KJR	TAL PEN
Soluble	Leach	DI Leach			280061	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 18:45	JAT	TAL PEN
Soluble	Leach	DI Leach			279287	10/16/15 14:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	279280	10/16/15 15:32	LSS	TAL PEN
Soluble	Leach	DI Leach			279289	10/16/15 14:00	LSS	TAL PEN
Soluble	Analysis	365.1		1	279281	10/16/15 15:50	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			279169	10/16/15 16:30	KJR	TAL PEN
Total/NA	Analysis	365.4		1	279639	10/20/15 11:00	KJR	TAL PEN
Soluble	Leach	DI Leach			281729	10/30/15 13:00	NAB	TAL PEN
Soluble	Analysis	9038		1	281780	11/03/15 12:39	NAB	TAL PEN
Soluble	Leach	DI Leach			281729	10/30/15 13:00	NAB	TAL PEN
Soluble	Analysis	9251		1	281781	11/03/15 12:48	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	282327	11/06/15 14:33	SCA	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 18:45	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 1.5 SED (10/14/2015)

Lab Sample ID: 660-69823-5

Date Collected: 10/14/15 12:01

Matrix: Solid

Date Received: 10/15/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			279662	10/21/15 06:43	DN1	TAL PEN
Total/NA	Analysis	6010B		1	280161	10/22/15 19:08	GESP	TAL PEN
Soluble	Leach	DI Leach			280027	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 17:02	JAT	TAL PEN
Total/NA	Prep	351.2			279168	10/16/15 16:28	KJR	TAL PEN
Total/NA	Analysis	351.2		1	279703	10/20/15 15:29	KJR	TAL PEN
Soluble	Leach	DI Leach			280061	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 18:46	JAT	TAL PEN
Soluble	Leach	DI Leach			279287	10/16/15 14:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	279280	10/16/15 15:32	LSS	TAL PEN
Soluble	Leach	DI Leach			279289	10/16/15 14:00	LSS	TAL PEN
Soluble	Analysis	365.1		1	279281	10/16/15 15:50	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			279169	10/16/15 16:30	KJR	TAL PEN
Total/NA	Analysis	365.4		1	279639	10/20/15 11:02	KJR	TAL PEN
Soluble	Leach	DI Leach			281729	10/30/15 13:00	NAB	TAL PEN
Soluble	Analysis	9038		1	281780	11/03/15 12:39	NAB	TAL PEN
Soluble	Leach	DI Leach			281729	10/30/15 13:00	NAB	TAL PEN
Soluble	Analysis	9251		1	281781	11/03/15 12:48	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	282327	11/06/15 14:33	SCA	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 18:46	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

Client Sample ID: CZ 1.5 SW (10/14/2015)

Lab Sample ID: 660-69823-6

Date Collected: 10/14/15 12:48

Matrix: Water

Date Received: 10/15/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			162719	10/27/15 10:57	ASD	TAL TAM
Dissolved	Filtration	FILTRATION			162728	10/27/15 11:00	ASD	TAL TAM
Dissolved	Analysis	6010B		1	162808	10/28/15 17:08	ASD	TAL TAM
Total Recoverable	Prep	3005A			162719	10/27/15 10:51	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	162808	10/28/15 16:26	ASD	TAL TAM
Total/NA	Analysis	350.1		1	280774	10/27/15 16:44	JAT	TAL PEN
Total/NA	Prep	351.2			279474	10/19/15 11:22	KJR	TAL PEN
Total/NA	Analysis	351.2		1	279716	10/20/15 16:19	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162379	10/15/15 16:45	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281116	10/29/15 10:49	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162404	10/15/15 14:40	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162405	10/15/15 14:50	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			279475	10/19/15 11:24	KJR	TAL PEN
Total/NA	Analysis	365.4		1	279647	10/20/15 11:55	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		50	280347	10/24/15 11:45	LSS	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 1.5 SW (10/14/2015)

Lab Sample ID: 660-69823-6

Date Collected: 10/14/15 12:48

Matrix: Water

Date Received: 10/15/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		5	281411	10/31/15 09:47	LSS	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	279619	10/20/15 09:51	LSS	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281894	11/04/15 10:13	JAT	TAL PEN

Client Sample ID: CZ 1.5 PW (10/14/2015)

Lab Sample ID: 660-69823-7

Date Collected: 10/14/15 12:48

Matrix: Water

Date Received: 10/15/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			162719	10/27/15 10:57	ASD	TAL TAM
Dissolved	Filtration	FILTRATION			162728	10/27/15 11:00	ASD	TAL TAM
Dissolved	Analysis	6010B		1	162808	10/28/15 17:11	ASD	TAL TAM
Total Recoverable	Prep	3005A			162719	10/27/15 10:51	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	162808	10/28/15 16:30	ASD	TAL TAM
Total/NA	Analysis	350.1		1	280774	10/27/15 16:45	JAT	TAL PEN
Total/NA	Prep	351.2			279474	10/19/15 11:22	KJR	TAL PEN
Total/NA	Analysis	351.2		1	279716	10/20/15 16:20	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162379	10/15/15 16:46	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281116	10/29/15 10:50	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162404	10/15/15 14:40	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162405	10/15/15 14:50	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			279475	10/19/15 11:24	KJR	TAL PEN
Total/NA	Analysis	365.4		1	279647	10/20/15 11:56	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		50	280347	10/24/15 11:45	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	281411	10/31/15 11:11	LSS	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	279619	10/20/15 09:51	LSS	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281894	11/04/15 10:13	JAT	TAL PEN

Client Sample ID: CZ 2.0 SED (10/14/2015)

Lab Sample ID: 660-69823-8

Date Collected: 10/14/15 12:50

Matrix: Solid

Date Received: 10/15/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			279662	10/21/15 06:43	DN1	TAL PEN
Total/NA	Analysis	6010B		1	280161	10/22/15 19:11	GESP	TAL PEN
Soluble	Leach	DI Leach			280027	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 17:03	JAT	TAL PEN
Total/NA	Prep	351.2			279168	10/16/15 16:28	KJR	TAL PEN
Total/NA	Analysis	351.2		1	279703	10/20/15 15:30	KJR	TAL PEN
Soluble	Leach	DI Leach			280061	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 18:47	JAT	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 2.0 SED (10/14/2015)

Lab Sample ID: 660-69823-8

Date Collected: 10/14/15 12:50

Matrix: Solid

Date Received: 10/15/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			279287	10/16/15 14:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	279280	10/16/15 15:32	LSS	TAL PEN
Soluble	Leach	DI Leach			279289	10/16/15 14:00	LSS	TAL PEN
Soluble	Analysis	365.1		1	279281	10/16/15 15:50	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			279169	10/16/15 16:30	KJR	TAL PEN
Total/NA	Analysis	365.4		1	279639	10/20/15 11:03	KJR	TAL PEN
Soluble	Leach	DI Leach			281729	10/30/15 13:00	NAB	TAL PEN
Soluble	Analysis	9038		1	281780	11/03/15 12:39	NAB	TAL PEN
Soluble	Leach	DI Leach			281729	10/30/15 13:00	NAB	TAL PEN
Soluble	Analysis	9251		1	281781	11/03/15 12:48	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	282327	11/06/15 14:33	SCA	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 18:47	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

Client Sample ID: CZ 2.5 SED (10/14/2015)

Lab Sample ID: 660-69823-9

Date Collected: 10/14/15 14:30

Matrix: Solid

Date Received: 10/15/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			279662	10/21/15 06:43	DN1	TAL PEN
Total/NA	Analysis	6010B		1	280161	10/22/15 19:15	GESP	TAL PEN
Soluble	Leach	DI Leach			280027	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 17:04	JAT	TAL PEN
Total/NA	Prep	351.2			279168	10/16/15 16:28	KJR	TAL PEN
Total/NA	Analysis	351.2		1	279703	10/20/15 15:31	KJR	TAL PEN
Soluble	Leach	DI Leach			280061	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 18:48	JAT	TAL PEN
Soluble	Leach	DI Leach			279287	10/16/15 14:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	279280	10/16/15 15:32	LSS	TAL PEN
Soluble	Leach	DI Leach			279289	10/16/15 14:00	LSS	TAL PEN
Soluble	Analysis	365.1		1	279281	10/16/15 15:50	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			279169	10/16/15 16:30	KJR	TAL PEN
Total/NA	Analysis	365.4		1	279639	10/20/15 11:07	KJR	TAL PEN
Soluble	Leach	DI Leach			281729	10/30/15 13:00	NAB	TAL PEN
Soluble	Analysis	9038		1	281780	11/03/15 12:39	NAB	TAL PEN
Soluble	Leach	DI Leach			281729	10/30/15 13:00	NAB	TAL PEN
Soluble	Analysis	9251		1	281781	11/03/15 12:55	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	282327	11/06/15 14:33	SCA	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 18:48	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 2.5 SW (10/14/2015)

Lab Sample ID: 660-69823-10

Date Collected: 10/14/15 14:45

Matrix: Water

Date Received: 10/15/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			162719	10/27/15 10:57	ASD	TAL TAM
Dissolved	Filtration	FILTRATION			162728	10/27/15 11:00	ASD	TAL TAM
Dissolved	Analysis	6010B		1	162808	10/28/15 17:21	ASD	TAL TAM
Total Recoverable	Prep	3005A			162719	10/27/15 10:51	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	162808	10/28/15 16:40	ASD	TAL TAM
Total/NA	Analysis	350.1		1	280790	10/27/15 18:40	JAT	TAL PEN
Total/NA	Prep	351.2			279474	10/19/15 11:22	KJR	TAL PEN
Total/NA	Analysis	351.2		1	279716	10/20/15 16:21	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162379	10/15/15 16:50	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281116	10/29/15 10:51	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162404	10/15/15 14:40	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162405	10/15/15 14:50	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			279475	10/19/15 11:24	KJR	TAL PEN
Total/NA	Analysis	365.4		1	279647	10/20/15 11:57	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		50	280347	10/24/15 11:45	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	281411	10/31/15 12:01	LSS	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	279619	10/20/15 09:51	LSS	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281894	11/04/15 10:13	JAT	TAL PEN

Client Sample ID: CZ 2.5 PW (10/14/2015)

Lab Sample ID: 660-69823-11

Date Collected: 10/14/15 14:45

Matrix: Water

Date Received: 10/15/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			162719	10/27/15 10:57	ASD	TAL TAM
Dissolved	Filtration	FILTRATION			162728	10/27/15 11:00	ASD	TAL TAM
Dissolved	Analysis	6010B		1	162808	10/28/15 17:25	ASD	TAL TAM
Total Recoverable	Prep	3005A			162719	10/27/15 10:51	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	162808	10/28/15 16:44	ASD	TAL TAM
Total Recoverable	Prep	3005A			162719	10/27/15 10:51	ASD	TAL TAM
Total Recoverable	Analysis	6010B		3	162833	10/29/15 08:30	GAF	TAL TAM
Total/NA	Analysis	350.1		1	280790	10/27/15 18:42	JAT	TAL PEN
Total/NA	Prep	351.2			279474	10/19/15 11:22	KJR	TAL PEN
Total/NA	Analysis	351.2		1	279716	10/20/15 16:22	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162379	10/15/15 16:54	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281116	10/29/15 10:52	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162404	10/15/15 14:40	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162405	10/15/15 14:50	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			279475	10/19/15 11:24	KJR	TAL PEN
Total/NA	Analysis	365.4		1	279647	10/20/15 11:58	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 2.5 PW (10/14/2015)

Lab Sample ID: 660-69823-11

Date Collected: 10/14/15 14:45

Matrix: Water

Date Received: 10/15/15 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 Cl- E		100	280347	10/24/15 11:58	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		25	281411	10/31/15 11:11	LSS	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	279619	10/20/15 09:51	LSS	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281894	11/04/15 10:13	JAT	TAL PEN

Client Sample ID: CZ 3.5 SW (10/15/2015)

Lab Sample ID: 660-69852-1

Date Collected: 10/15/15 10:15

Matrix: Water

Date Received: 10/16/15 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162768	10/28/15 09:12	GAF	TAL TAM
Dissolved	Prep	3005A			162769	10/28/15 09:16	GAF	TAL TAM
Dissolved	Analysis	6010B		1	162833	10/29/15 11:03	GAF	TAL TAM
Total Recoverable	Prep	3005A			162769	10/28/15 09:13	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	162833	10/29/15 10:36	GAF	TAL TAM
Total/NA	Analysis	350.1		1	280790	10/27/15 18:45	JAT	TAL PEN
Total/NA	Prep	351.2			279474	10/19/15 11:22	KJR	TAL PEN
Total/NA	Analysis	351.2		1	279716	10/20/15 16:39	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162403	10/16/15 15:05	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281116	10/29/15 10:53	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162382	10/16/15 10:55	SC1	TAL TAM
Dissolved	Analysis	365.2		1	162383	10/16/15 11:22	SC1	TAL TAM
Total/NA	Prep	365.2/365.3/365			279475	10/19/15 11:24	KJR	TAL PEN
Total/NA	Analysis	365.4		1	279647	10/20/15 12:17	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		50	280347	10/24/15 11:45	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	281411	10/31/15 11:15	LSS	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	279619	10/20/15 09:51	LSS	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281894	11/04/15 10:13	JAT	TAL PEN

Client Sample ID: CZ 3.5 PW (10/15/2015)

Lab Sample ID: 660-69852-2

Date Collected: 10/15/15 10:15

Matrix: Water

Date Received: 10/16/15 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162768	10/28/15 09:12	GAF	TAL TAM
Dissolved	Prep	3005A			162769	10/28/15 09:16	GAF	TAL TAM
Dissolved	Analysis	6010B		1	162833	10/29/15 11:06	GAF	TAL TAM
Total Recoverable	Prep	3005A			162769	10/28/15 09:13	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	162833	10/29/15 10:52	GAF	TAL TAM
Total/NA	Analysis	350.1		1	280790	10/27/15 18:46	JAT	TAL PEN
Total/NA	Prep	351.2			279474	10/19/15 11:22	KJR	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 3.5 PW (10/15/2015)

Lab Sample ID: 660-69852-2

Date Collected: 10/15/15 10:15

Matrix: Water

Date Received: 10/16/15 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	351.2		1	279716	10/20/15 16:40	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162403	10/16/15 15:09	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281116	10/29/15 10:56	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162382	10/16/15 10:55	SC1	TAL TAM
Dissolved	Analysis	365.2		1	162383	10/16/15 11:22	SC1	TAL TAM
Total/NA	Prep	365.2/365.3/365			279475	10/19/15 11:24	KJR	TAL PEN
Total/NA	Analysis	365.4		1	279647	10/20/15 12:18	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		100	280347	10/24/15 11:58	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		25	281411	10/31/15 11:37	LSS	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	279619	10/20/15 09:51	LSS	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281894	11/04/15 10:13	JAT	TAL PEN

Client Sample ID: CZ 4.5 SW (10/15/2015)

Lab Sample ID: 660-69852-3

Date Collected: 10/15/15 12:05

Matrix: Water

Date Received: 10/16/15 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162768	10/28/15 09:12	GAF	TAL TAM
Dissolved	Prep	3005A			162769	10/28/15 09:16	GAF	TAL TAM
Dissolved	Analysis	6010B		1	162833	10/29/15 11:10	GAF	TAL TAM
Total Recoverable	Prep	3005A			162769	10/28/15 09:13	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	162833	10/29/15 10:56	GAF	TAL TAM
Total/NA	Analysis	350.1		1	280790	10/27/15 18:47	JAT	TAL PEN
Total/NA	Prep	351.2			279474	10/19/15 11:22	KJR	TAL PEN
Total/NA	Analysis	351.2		1	279716	10/20/15 16:41	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162403	10/16/15 15:10	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281116	10/29/15 10:57	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162382	10/16/15 10:55	SC1	TAL TAM
Dissolved	Analysis	365.2		1	162383	10/16/15 11:22	SC1	TAL TAM
Total/NA	Prep	365.2/365.3/365			279475	10/19/15 11:24	KJR	TAL PEN
Total/NA	Analysis	365.4		1	279647	10/20/15 12:19	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		50	280347	10/24/15 11:45	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	281411	10/31/15 11:37	LSS	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	279619	10/20/15 09:51	LSS	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281894	11/04/15 10:13	JAT	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 4.5 PW (10/15/2015)

Lab Sample ID: 660-69852-4

Date Collected: 10/15/15 12:05

Matrix: Water

Date Received: 10/16/15 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			162798	10/28/15 13:49	GAF	TAL TAM
Dissolved	Filtration	FILTRATION			162799	10/28/15 13:49	GAF	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 20:11	ASD	TAL TAM
Total Recoverable	Prep	3005A			162798	10/28/15 13:49	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 19:33	ASD	TAL TAM
Total/NA	Analysis	350.1		1	280790	10/27/15 18:48	JAT	TAL PEN
Total/NA	Prep	351.2			279474	10/19/15 11:22	KJR	TAL PEN
Total/NA	Analysis	351.2		1	279716	10/20/15 16:42	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162403	10/16/15 15:17	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281116	10/29/15 10:58	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162382	10/16/15 10:55	SC1	TAL TAM
Dissolved	Analysis	365.2		1	162383	10/16/15 11:22	SC1	TAL TAM
Total/NA	Prep	365.2/365.3/365			279475	10/19/15 11:24	KJR	TAL PEN
Total/NA	Analysis	365.4		1	279647	10/20/15 12:20	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		100	280347	10/24/15 11:58	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	281411	10/31/15 12:54	LSS	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	279619	10/20/15 09:51	LSS	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281899	11/04/15 10:30	JAT	TAL PEN

Client Sample ID: CZ 5.5 SW (10/15/2015)

Lab Sample ID: 660-69852-5

Date Collected: 10/15/15 15:20

Matrix: Water

Date Received: 10/16/15 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			162798	10/28/15 13:49	GAF	TAL TAM
Dissolved	Filtration	FILTRATION			162799	10/28/15 13:49	GAF	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 20:14	ASD	TAL TAM
Total Recoverable	Prep	3005A			162798	10/28/15 13:47	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 19:20	ASD	TAL TAM
Total/NA	Analysis	350.1		1	280790	10/27/15 18:49	JAT	TAL PEN
Total/NA	Prep	351.2			279717	10/20/15 16:49	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280087	10/22/15 14:17	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162403	10/16/15 15:18	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281116	10/29/15 11:04	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162382	10/16/15 10:55	SC1	TAL TAM
Dissolved	Analysis	365.2		1	162383	10/16/15 11:22	SC1	TAL TAM
Total/NA	Prep	365.2/365.3/365			279720	10/20/15 16:52	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280316	10/23/15 18:10	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		50	280347	10/24/15 11:45	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	281411	10/31/15 11:37	LSS	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 5.5 SW (10/15/2015)

Lab Sample ID: 660-69852-5

Date Collected: 10/15/15 15:20

Matrix: Water

Date Received: 10/16/15 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM3500_FE_D		1	279929	10/21/15 16:31	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281899	11/04/15 10:30	JAT	TAL PEN

Client Sample ID: CZ 5.5 PW (10/15/2015)

Lab Sample ID: 660-69852-6

Date Collected: 10/15/15 15:20

Matrix: Water

Date Received: 10/16/15 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			162798	10/28/15 13:49	GAF	TAL TAM
Dissolved	Filtration	FILTRATION			162799	10/28/15 13:49	GAF	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 20:17	ASD	TAL TAM
Total Recoverable	Prep	3005A			162798	10/28/15 13:49	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 19:36	ASD	TAL TAM
Total/NA	Analysis	350.1		1	280790	10/27/15 18:50	JAT	TAL PEN
Total/NA	Prep	351.2			279717	10/20/15 16:49	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280087	10/22/15 14:20	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162403	10/16/15 15:20	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281116	10/29/15 11:06	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162382	10/16/15 10:55	SC1	TAL TAM
Dissolved	Analysis	365.2		1	162383	10/16/15 11:22	SC1	TAL TAM
Total/NA	Prep	365.2/365.3/365			279720	10/20/15 16:52	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280316	10/23/15 18:14	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		50	280347	10/24/15 11:48	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		15	281411	10/31/15 12:05	LSS	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	279929	10/21/15 16:31	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281899	11/04/15 10:30	JAT	TAL PEN

Client Sample ID: CZ 3.0 SED (10/15/2015)

Lab Sample ID: 660-69852-7

Date Collected: 10/15/15 09:30

Matrix: Solid

Date Received: 10/16/15 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			279662	10/21/15 06:43	DN1	TAL PEN
Total/NA	Analysis	6010B		1	280161	10/22/15 19:18	GESP	TAL PEN
Soluble	Leach	DI Leach			280027	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 17:05	JAT	TAL PEN
Total/NA	Prep	351.2			279168	10/19/15 11:26	KJR	TAL PEN
Total/NA	Analysis	351.2		1	279703	10/20/15 15:34	KJR	TAL PEN
Soluble	Leach	DI Leach			280061	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 18:49	JAT	TAL PEN
Soluble	Leach	DI Leach			279303	10/17/15 10:00	LSS	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 3.0 SED (10/15/2015)

Lab Sample ID: 660-69852-7

Date Collected: 10/15/15 09:30

Matrix: Solid

Date Received: 10/16/15 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Analysis	354.1		1	279306	10/17/15 12:34	LSS	TAL PEN
Soluble	Leach	DI Leach			279302	10/17/15 10:00	LSS	TAL PEN
Soluble	Analysis	365.1		1	279305	10/17/15 12:33	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			279169	10/19/15 11:28	KJR	TAL PEN
Total/NA	Analysis	365.4		1	279639	10/20/15 11:08	KJR	TAL PEN
Soluble	Leach	DI Leach			281729	10/30/15 13:00	NAB	TAL PEN
Soluble	Analysis	9038		1	281780	11/03/15 12:39	NAB	TAL PEN
Soluble	Leach	DI Leach			281729	10/30/15 13:00	NAB	TAL PEN
Soluble	Analysis	9251		1	281781	11/03/15 12:55	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 18:49	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

Client Sample ID: CZ 3.5 SED (10/15/2015)

Lab Sample ID: 660-69852-8

Date Collected: 10/15/15 09:55

Matrix: Solid

Date Received: 10/16/15 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			279662	10/21/15 06:43	DN1	TAL PEN
Total/NA	Analysis	6010B		1	280161	10/22/15 19:21	GESP	TAL PEN
Soluble	Leach	DI Leach			280027	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 17:07	JAT	TAL PEN
Total/NA	Prep	351.2			279168	10/19/15 11:26	KJR	TAL PEN
Total/NA	Analysis	351.2		1	279703	10/20/15 15:35	KJR	TAL PEN
Soluble	Leach	DI Leach			280061	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 18:55	JAT	TAL PEN
Soluble	Leach	DI Leach			279303	10/17/15 10:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	279306	10/17/15 12:34	LSS	TAL PEN
Soluble	Leach	DI Leach			279302	10/17/15 10:00	LSS	TAL PEN
Soluble	Analysis	365.1		1	279305	10/17/15 12:33	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			279169	10/19/15 11:28	KJR	TAL PEN
Total/NA	Analysis	365.4		1	279639	10/20/15 11:09	KJR	TAL PEN
Soluble	Leach	DI Leach			281729	10/30/15 13:00	NAB	TAL PEN
Soluble	Analysis	9038		1	281780	11/03/15 12:58	NAB	TAL PEN
Soluble	Leach	DI Leach			281729	10/30/15 13:00	NAB	TAL PEN
Soluble	Analysis	9251		2	281781	11/03/15 15:14	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 18:55	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 4.0 SED (10/15/2015)

Lab Sample ID: 660-69852-9

Date Collected: 10/15/15 11:00

Matrix: Solid

Date Received: 10/16/15 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			279662	10/21/15 06:43	DN1	TAL PEN
Total/NA	Analysis	6010B		1	280161	10/22/15 19:25	GESP	TAL PEN
Soluble	Leach	DI Leach			280027	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 17:08	JAT	TAL PEN
Total/NA	Prep	351.2			279168	10/19/15 11:26	KJR	TAL PEN
Total/NA	Analysis	351.2		1	279703	10/20/15 15:37	KJR	TAL PEN
Soluble	Leach	DI Leach			280061	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 18:56	JAT	TAL PEN
Soluble	Leach	DI Leach			279303	10/17/15 10:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	279306	10/17/15 12:34	LSS	TAL PEN
Soluble	Leach	DI Leach			279302	10/17/15 10:00	LSS	TAL PEN
Soluble	Analysis	365.1		1	279305	10/17/15 12:33	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			279169	10/19/15 11:28	KJR	TAL PEN
Total/NA	Analysis	365.4		1	279639	10/20/15 11:10	KJR	TAL PEN
Soluble	Leach	DI Leach			281729	10/30/15 13:00	NAB	TAL PEN
Soluble	Analysis	9038		1	281780	11/03/15 12:58	NAB	TAL PEN
Soluble	Leach	DI Leach			281729	10/30/15 13:00	NAB	TAL PEN
Soluble	Analysis	9251		2	281781	11/03/15 14:18	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 18:56	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

Client Sample ID: CZ 4.5 SED (10/15/2015)

Lab Sample ID: 660-69852-10

Date Collected: 10/15/15 11:40

Matrix: Solid

Date Received: 10/16/15 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			279986	10/23/15 11:40	KWN	TAL PEN
Total/NA	Analysis	6010B		1	280815	10/27/15 21:03	JAS	TAL PEN
Soluble	Leach	DI Leach			280027	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 17:09	JAT	TAL PEN
Total/NA	Prep	351.2			279168	10/19/15 11:26	KJR	TAL PEN
Total/NA	Analysis	351.2		1	279703	10/20/15 15:38	KJR	TAL PEN
Soluble	Leach	DI Leach			280061	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 18:57	JAT	TAL PEN
Soluble	Leach	DI Leach			279303	10/17/15 10:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	279306	10/17/15 12:34	LSS	TAL PEN
Soluble	Leach	DI Leach			279302	10/17/15 10:00	LSS	TAL PEN
Soluble	Analysis	365.1		1	279305	10/17/15 12:33	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			279169	10/19/15 11:28	KJR	TAL PEN
Total/NA	Analysis	365.4		1	279639	10/20/15 11:12	KJR	TAL PEN
Soluble	Leach	DI Leach			281729	10/30/15 13:00	NAB	TAL PEN
Soluble	Analysis	9038		1	281780	11/03/15 12:58	NAB	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 4.5 SED (10/15/2015)

Lab Sample ID: 660-69852-10

Date Collected: 10/15/15 11:40

Matrix: Solid

Date Received: 10/16/15 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			281729	10/30/15 13:00	NAB	TAL PEN
Soluble	Analysis	9251		1	281781	11/03/15 12:55	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 18:57	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

Client Sample ID: CZ 5.0 SED (10/15/2015)

Lab Sample ID: 660-69852-11

Date Collected: 10/15/15 14:30

Matrix: Solid

Date Received: 10/16/15 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			279986	10/23/15 11:40	KWN	TAL PEN
Total/NA	Analysis	6010B		1	280815	10/27/15 21:06	JAS	TAL PEN
Soluble	Leach	DI Leach			280027	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 17:10	JAT	TAL PEN
Total/NA	Prep	351.2			279168	10/19/15 11:26	KJR	TAL PEN
Total/NA	Analysis	351.2		1	279703	10/20/15 15:39	KJR	TAL PEN
Soluble	Leach	DI Leach			280061	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 18:58	JAT	TAL PEN
Soluble	Leach	DI Leach			279303	10/17/15 10:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	279306	10/17/15 12:34	LSS	TAL PEN
Soluble	Leach	DI Leach			279302	10/17/15 10:00	LSS	TAL PEN
Soluble	Analysis	365.1		1	279305	10/17/15 12:33	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			279169	10/19/15 11:28	KJR	TAL PEN
Total/NA	Analysis	365.4		1	279639	10/20/15 11:13	KJR	TAL PEN
Soluble	Leach	DI Leach			281729	10/30/15 13:00	NAB	TAL PEN
Soluble	Analysis	9038		1	281780	11/03/15 12:58	NAB	TAL PEN
Soluble	Leach	DI Leach			281729	10/30/15 13:00	NAB	TAL PEN
Soluble	Analysis	9251		1	281781	11/03/15 12:55	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 18:58	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

Client Sample ID: CZ 5.5 SED (10/15/2015)

Lab Sample ID: 660-69852-12

Date Collected: 10/15/15 15:10

Matrix: Solid

Date Received: 10/16/15 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			279986	10/23/15 11:40	KWN	TAL PEN
Total/NA	Analysis	6010B		1	280815	10/27/15 21:10	JAS	TAL PEN
Soluble	Leach	DI Leach			280027	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 17:11	JAT	TAL PEN
Total/NA	Prep	351.2			279168	10/19/15 11:26	KJR	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 5.5 SED (10/15/2015)

Lab Sample ID: 660-69852-12

Date Collected: 10/15/15 15:10

Matrix: Solid

Date Received: 10/16/15 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	351.2		1	279703	10/20/15 15:40	KJR	TAL PEN
Soluble	Leach	DI Leach			280061	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 18:59	JAT	TAL PEN
Soluble	Leach	DI Leach			279303	10/17/15 10:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	279306	10/17/15 12:35	LSS	TAL PEN
Soluble	Leach	DI Leach			279302	10/17/15 10:00	LSS	TAL PEN
Soluble	Analysis	365.1		1	279305	10/17/15 12:33	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			279169	10/19/15 11:28	KJR	TAL PEN
Total/NA	Analysis	365.4		1	279639	10/20/15 11:14	KJR	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 16:00	NAB	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 15:53	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 18:59	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

Client Sample ID: CZ 6.0 SED (10/15/2015)

Lab Sample ID: 660-69852-13

Date Collected: 10/15/15 15:55

Matrix: Solid

Date Received: 10/16/15 06:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			279986	10/23/15 11:40	KWN	TAL PEN
Total/NA	Analysis	6010B		1	280815	10/27/15 21:13	JAS	TAL PEN
Soluble	Leach	DI Leach			280027	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 17:17	JAT	TAL PEN
Total/NA	Prep	351.2			279168	10/19/15 11:26	KJR	TAL PEN
Total/NA	Analysis	351.2		1	279703	10/20/15 15:41	KJR	TAL PEN
Soluble	Leach	DI Leach			280061	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 19:02	JAT	TAL PEN
Soluble	Leach	DI Leach			279303	10/17/15 10:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	279306	10/17/15 12:50	LSS	TAL PEN
Soluble	Leach	DI Leach			279302	10/17/15 10:00	LSS	TAL PEN
Soluble	Analysis	365.1		1	279305	10/17/15 12:33	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			279169	10/19/15 11:28	KJR	TAL PEN
Total/NA	Analysis	365.4		1	279639	10/20/15 11:15	KJR	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 16:00	NAB	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 15:53	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 19:02	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 6.5 SW (10/16/2015)

Lab Sample ID: 660-69879-1

Date Collected: 10/16/15 09:25

Matrix: Water

Date Received: 10/17/15 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			162798	10/28/15 13:49	GAF	TAL TAM
Dissolved	Filtration	FILTRATION			162799	10/28/15 13:49	GAF	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 20:21	ASD	TAL TAM
Total Recoverable	Prep	3005A			162798	10/28/15 13:49	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 19:40	ASD	TAL TAM
Total/NA	Analysis	350.1		1	281169	10/29/15 14:39	JAT	TAL PEN
Total/NA	Prep	351.2			279717	10/20/15 16:49	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280087	10/22/15 14:22	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162484	10/17/15 12:19	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281116	10/29/15 11:07	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162482	10/17/15 12:00	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162483	10/17/15 12:15	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			279720	10/20/15 16:52	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280316	10/23/15 18:15	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		50	280347	10/24/15 11:48	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	281411	10/31/15 12:54	LSS	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	279929	10/21/15 16:31	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281899	11/04/15 10:30	JAT	TAL PEN

Client Sample ID: CZ 6.5 PW (10/16/2015)

Lab Sample ID: 660-69879-2

Date Collected: 10/16/15 09:25

Matrix: Water

Date Received: 10/17/15 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			162798	10/28/15 13:49	GAF	TAL TAM
Dissolved	Filtration	FILTRATION			162799	10/28/15 13:49	GAF	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 20:31	ASD	TAL TAM
Total Recoverable	Prep	3005A			162798	10/28/15 13:49	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 19:50	ASD	TAL TAM
Total/NA	Analysis	350.1		1	281169	10/29/15 14:40	JAT	TAL PEN
Total/NA	Prep	351.2			279717	10/20/15 16:49	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280087	10/22/15 14:23	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162484	10/17/15 12:23	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281116	10/29/15 11:08	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162482	10/17/15 12:00	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162483	10/17/15 12:15	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			279720	10/20/15 16:52	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280316	10/23/15 18:16	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		50	280347	10/24/15 11:55	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		20	281411	10/31/15 12:54	LSS	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 6.5 PW (10/16/2015)

Lab Sample ID: 660-69879-2

Date Collected: 10/16/15 09:25

Matrix: Water

Date Received: 10/17/15 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM3500_FE_D		1	279929	10/21/15 16:31	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281899	11/04/15 10:30	JAT	TAL PEN

Client Sample ID: CZ 7.5 SW (10/16/2015)

Lab Sample ID: 660-69879-3

Date Collected: 10/16/15 11:20

Matrix: Water

Date Received: 10/17/15 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			162798	10/28/15 13:49	GAF	TAL TAM
Dissolved	Filtration	FILTRATION			162799	10/28/15 13:49	GAF	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 20:34	ASD	TAL TAM
Total Recoverable	Prep	3005A			162798	10/28/15 13:49	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 19:53	ASD	TAL TAM
Total/NA	Analysis	350.1		1	281169	10/29/15 14:41	JAT	TAL PEN
Total/NA	Prep	351.2			279717	10/20/15 16:49	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280087	10/22/15 14:24	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162484	10/17/15 12:25	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281116	10/29/15 11:09	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162482	10/17/15 12:00	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162483	10/17/15 12:15	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			279720	10/20/15 16:52	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280316	10/23/15 18:17	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		50	280347	10/24/15 11:55	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	281411	10/31/15 11:41	LSS	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	279929	10/21/15 16:31	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281899	11/04/15 10:30	JAT	TAL PEN

Client Sample ID: CZ 7.5 PW (10/16/2015)

Lab Sample ID: 660-69879-4

Date Collected: 10/16/15 11:20

Matrix: Water

Date Received: 10/17/15 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			162798	10/28/15 13:49	GAF	TAL TAM
Dissolved	Filtration	FILTRATION			162799	10/28/15 13:49	GAF	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 20:38	ASD	TAL TAM
Total Recoverable	Prep	3005A			162798	10/28/15 13:49	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 19:57	ASD	TAL TAM
Total/NA	Analysis	350.1		1	281200	10/29/15 15:41	JAT	TAL PEN
Total/NA	Prep	351.2			279717	10/20/15 16:49	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280087	10/22/15 14:25	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162484	10/17/15 12:31	ELE	TAL TAM

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 7.5 PW (10/16/2015)

Lab Sample ID: 660-69879-4

Date Collected: 10/16/15 11:20

Matrix: Water

Date Received: 10/17/15 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	281116	10/29/15 11:10	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162482	10/17/15 12:00	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162483	10/17/15 12:15	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			279720	10/20/15 16:52	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280316	10/23/15 18:18	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		100	280347	10/24/15 11:59	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		15	281411	10/31/15 12:05	LSS	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	279929	10/21/15 16:31	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281899	11/04/15 10:30	JAT	TAL PEN

Client Sample ID: CZ 8.5 SW (10/16/2015)

Lab Sample ID: 660-69879-5

Date Collected: 10/16/15 14:05

Matrix: Water

Date Received: 10/17/15 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			162798	10/28/15 13:49	GAF	TAL TAM
Dissolved	Filtration	FILTRATION			162799	10/28/15 13:49	GAF	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 20:41	ASD	TAL TAM
Total Recoverable	Prep	3005A			162798	10/28/15 13:49	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 20:00	ASD	TAL TAM
Total/NA	Analysis	350.1		1	281200	10/29/15 15:44	JAT	TAL PEN
Total/NA	Prep	351.2			279717	10/20/15 16:49	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280087	10/22/15 14:28	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162484	10/17/15 12:33	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281126	10/29/15 11:36	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162482	10/17/15 12:00	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162483	10/17/15 12:15	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			279720	10/20/15 16:52	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280316	10/23/15 18:21	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		50	280347	10/24/15 11:55	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	282388	11/06/15 14:31	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	279929	10/21/15 16:31	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281901	11/04/15 10:36	JAT	TAL PEN

Client Sample ID: CZ 8.5 PW (10/16/2015)

Lab Sample ID: 660-69879-6

Date Collected: 10/16/15 14:05

Matrix: Water

Date Received: 10/17/15 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			162798	10/28/15 13:49	GAF	TAL TAM

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 8.5 PW (10/16/2015)

Lab Sample ID: 660-69879-6

Date Collected: 10/16/15 14:05

Matrix: Water

Date Received: 10/17/15 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162799	10/28/15 13:49	GAF	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 20:45	ASD	TAL TAM
Total Recoverable	Prep	3005A			162798	10/28/15 13:49	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 20:04	ASD	TAL TAM
Total/NA	Analysis	350.1		1	281200	10/29/15 15:45	JAT	TAL PEN
Total/NA	Prep	351.2			279717	10/20/15 16:49	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280087	10/22/15 14:29	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162484	10/17/15 12:34	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281126	10/29/15 11:39	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162482	10/17/15 12:00	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162483	10/17/15 12:15	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			279720	10/20/15 16:52	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280316	10/23/15 18:23	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		100	280347	10/24/15 12:05	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	282388	11/06/15 14:31	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	279929	10/21/15 16:31	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281901	11/04/15 10:36	JAT	TAL PEN

Client Sample ID: CZ 6.5 SED (10/16/2015)

Lab Sample ID: 660-69879-7

Date Collected: 10/16/15 09:05

Matrix: Solid

Date Received: 10/17/15 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			279986	10/23/15 11:40	KWN	TAL PEN
Total/NA	Analysis	6010B		1	280815	10/27/15 21:26	JAS	TAL PEN
Soluble	Leach	DI Leach			280027	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 17:18	JAT	TAL PEN
Total/NA	Prep	351.2			279705	10/20/15 16:06	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280105	10/22/15 15:12	KJR	TAL PEN
Soluble	Leach	DI Leach			280061	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 19:03	JAT	TAL PEN
Soluble	Leach	DI Leach			279688	10/20/15 15:40	LSS	TAL PEN
Soluble	Analysis	354.1		1	279732	10/20/15 16:45	LSS	TAL PEN
Soluble	Leach	DI Leach			279699	10/20/15 15:44	LSS	TAL PEN
Soluble	Analysis	365.1		1	279735	10/20/15 16:43	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			279706	10/20/15 16:08	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280316	10/23/15 18:36	KJR	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 16:00	NAB	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 15:53	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 19:03	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

Client Sample ID: CZ 7.0 SED (10/16/2015)

Lab Sample ID: 660-69879-8

Date Collected: 10/16/15 10:10

Matrix: Solid

Date Received: 10/17/15 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			279986	10/23/15 11:40	KWN	TAL PEN
Total/NA	Analysis	6010B		1	280815	10/27/15 21:30	JAS	TAL PEN
Soluble	Leach	DI Leach			280027	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 17:19	JAT	TAL PEN
Total/NA	Prep	351.2			279705	10/20/15 16:06	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280105	10/22/15 15:15	KJR	TAL PEN
Soluble	Leach	DI Leach			280061	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 19:04	JAT	TAL PEN
Soluble	Leach	DI Leach			279688	10/20/15 15:40	LSS	TAL PEN
Soluble	Analysis	354.1		1	279732	10/20/15 16:45	LSS	TAL PEN
Soluble	Leach	DI Leach			279699	10/20/15 15:44	LSS	TAL PEN
Soluble	Analysis	365.1		1	279735	10/20/15 16:43	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			279706	10/20/15 16:08	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280316	10/23/15 18:39	KJR	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 16:00	NAB	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 15:54	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 19:04	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

Client Sample ID: CZ 7.5 SED (10/16/2015)

Lab Sample ID: 660-69879-9

Date Collected: 10/16/15 10:50

Matrix: Solid

Date Received: 10/17/15 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			279986	10/23/15 11:40	KWN	TAL PEN
Total/NA	Analysis	6010B		1	280815	10/27/15 21:33	JAS	TAL PEN
Soluble	Leach	DI Leach			280027	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 17:20	JAT	TAL PEN
Total/NA	Prep	351.2			279705	10/20/15 16:06	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280105	10/22/15 15:16	KJR	TAL PEN
Soluble	Leach	DI Leach			280061	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 19:10	JAT	TAL PEN
Soluble	Leach	DI Leach			279688	10/20/15 15:40	LSS	TAL PEN
Soluble	Analysis	354.1		1	279732	10/20/15 16:45	LSS	TAL PEN
Soluble	Leach	DI Leach			279699	10/20/15 15:44	LSS	TAL PEN
Soluble	Analysis	365.1		1	279735	10/20/15 16:43	LSS	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 7.5 SED (10/16/2015)

Lab Sample ID: 660-69879-9

Date Collected: 10/16/15 10:50

Matrix: Solid

Date Received: 10/17/15 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	365.2/365.3/365			279706	10/20/15 16:08	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280316	10/23/15 18:40	KJR	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 16:00	NAB	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 15:54	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 19:10	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

Client Sample ID: CZ 8.0 SED (10/16/2015)

Lab Sample ID: 660-69879-10

Date Collected: 10/16/15 12:25

Matrix: Solid

Date Received: 10/17/15 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			279986	10/23/15 11:40	KWN	TAL PEN
Total/NA	Analysis	6010B		1	280815	10/27/15 21:37	JAS	TAL PEN
Soluble	Leach	DI Leach			280027	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 17:21	JAT	TAL PEN
Total/NA	Prep	351.2			279705	10/20/15 16:06	KJR	TAL PEN
Total/NA	Analysis	351.2		2	280105	10/22/15 15:38	KJR	TAL PEN
Soluble	Leach	DI Leach			280061	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 19:11	JAT	TAL PEN
Soluble	Leach	DI Leach			279688	10/20/15 15:40	LSS	TAL PEN
Soluble	Analysis	354.1		1	279732	10/20/15 16:44	LSS	TAL PEN
Soluble	Leach	DI Leach			279699	10/20/15 15:44	LSS	TAL PEN
Soluble	Analysis	365.1		1	279735	10/20/15 16:43	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			279706	10/20/15 16:08	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280316	10/23/15 18:41	KJR	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 16:00	NAB	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 15:54	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 19:11	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

Client Sample ID: CZ 8.5 SED (10/16/2015)

Lab Sample ID: 660-69879-11

Date Collected: 10/16/15 13:45

Matrix: Solid

Date Received: 10/17/15 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			279986	10/23/15 11:40	KWN	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 8.5 SED (10/16/2015)

Lab Sample ID: 660-69879-11

Date Collected: 10/16/15 13:45

Matrix: Solid

Date Received: 10/17/15 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		1	280815	10/27/15 21:40	JAS	TAL PEN
Soluble	Leach	DI Leach			280027	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 17:22	JAT	TAL PEN
Total/NA	Prep	351.2			279705	10/20/15 16:06	KJR	TAL PEN
Total/NA	Analysis	351.2		2	280105	10/22/15 15:36	KJR	TAL PEN
Soluble	Leach	DI Leach			280061	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 19:12	JAT	TAL PEN
Soluble	Leach	DI Leach			279688	10/20/15 15:40	LSS	TAL PEN
Soluble	Analysis	354.1		1	279732	10/20/15 16:45	LSS	TAL PEN
Soluble	Leach	DI Leach			279699	10/20/15 15:44	LSS	TAL PEN
Soluble	Analysis	365.1		1	279735	10/20/15 16:43	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			279706	10/20/15 16:08	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280316	10/23/15 18:42	KJR	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 16:00	NAB	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 15:54	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 19:12	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

Client Sample ID: CZ 9.0 SED (10/16/2015)

Lab Sample ID: 660-69879-12

Date Collected: 10/16/15 15:35

Matrix: Solid

Date Received: 10/17/15 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			279986	10/23/15 11:40	KWN	TAL PEN
Total/NA	Analysis	6010B		1	280815	10/27/15 21:43	JAS	TAL PEN
Soluble	Leach	DI Leach			280027	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 17:23	JAT	TAL PEN
Total/NA	Prep	351.2			279705	10/20/15 16:06	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280105	10/22/15 15:20	KJR	TAL PEN
Soluble	Leach	DI Leach			280061	10/22/15 10:35	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 19:13	JAT	TAL PEN
Soluble	Leach	DI Leach			279688	10/20/15 15:40	LSS	TAL PEN
Soluble	Analysis	354.1		1	279732	10/20/15 16:45	LSS	TAL PEN
Soluble	Leach	DI Leach			279699	10/20/15 15:44	LSS	TAL PEN
Soluble	Analysis	365.1		1	279735	10/20/15 16:43	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			279706	10/20/15 16:08	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280316	10/23/15 18:44	KJR	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 16:00	NAB	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: CZ 9.0 SED (10/16/2015)

Lab Sample ID: 660-69879-12

Date Collected: 10/16/15 15:35

Matrix: Solid

Date Received: 10/17/15 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Analysis	9251		1	282068	11/04/15 15:53	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 19:13	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

Client Sample ID: CZ 9.5 SED (10/16/2015)

Lab Sample ID: 660-69879-13

Date Collected: 10/16/15 16:00

Matrix: Solid

Date Received: 10/17/15 06:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			279986	10/23/15 11:40	KWN	TAL PEN
Total/NA	Analysis	6010B		1	280815	10/27/15 21:47	JAS	TAL PEN
Soluble	Leach	DI Leach			280027	10/22/15 10:39	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 17:24	JAT	TAL PEN
Total/NA	Prep	351.2			279705	10/20/15 16:06	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280105	10/22/15 15:33	KJR	TAL PEN
Soluble	Leach	DI Leach			280061	10/22/15 10:39	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 19:14	JAT	TAL PEN
Soluble	Leach	DI Leach			279688	10/20/15 15:40	LSS	TAL PEN
Soluble	Analysis	354.1		1	279732	10/20/15 17:24	LSS	TAL PEN
Soluble	Leach	DI Leach			279699	10/20/15 15:44	LSS	TAL PEN
Soluble	Analysis	365.1		1	279735	10/20/15 16:43	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			279706	10/20/15 16:08	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280316	10/23/15 18:48	KJR	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 16:07	NAB	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 15:54	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 19:14	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

Client Sample ID: HM 10.5 SW (10/19/2015)

Lab Sample ID: 660-69893-1

Date Collected: 10/19/15 11:30

Matrix: Water

Date Received: 10/20/15 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162845	10/29/15 11:18	ASD	TAL TAM
Dissolved	Prep	3005A			162846	10/29/15 11:29	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163018	11/04/15 09:53	GAF	TAL TAM
Total Recoverable	Prep	3005A			162846	10/29/15 11:30	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163018	11/04/15 08:57	GAF	TAL TAM
Total/NA	Analysis	350.1		1	281200	10/29/15 15:46	JAT	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	351.2			280026	10/22/15 10:35	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280655	10/27/15 09:22	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162613	10/20/15 11:33	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281126	10/29/15 11:40	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162524	10/21/15 08:30	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162525	10/21/15 08:35	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280029	10/22/15 10:37	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280320	10/23/15 19:39	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		100	280347	10/24/15 12:05	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	282388	11/06/15 15:11	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	279929	10/21/15 16:31	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281901	11/04/15 10:36	JAT	TAL PEN

Client Sample ID: HM 10.5 PW (10/19/2015)

Lab Sample ID: 660-69893-2

Date Collected: 10/19/15 11:30

Matrix: Water

Date Received: 10/20/15 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162845	10/29/15 11:18	ASD	TAL TAM
Dissolved	Prep	3005A			162846	10/29/15 11:29	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163018	11/04/15 09:57	GAF	TAL TAM
Total Recoverable	Prep	3005A			162846	10/29/15 11:30	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163018	11/04/15 09:00	GAF	TAL TAM
Total/NA	Analysis	350.1		1	281200	10/29/15 15:47	JAT	TAL PEN
Total/NA	Prep	351.2			280026	10/22/15 10:35	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280655	10/27/15 09:23	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162613	10/20/15 11:33	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281126	10/29/15 11:41	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162524	10/21/15 08:30	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162525	10/21/15 08:35	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280029	10/22/15 10:37	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280320	10/23/15 19:40	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		100	280347	10/24/15 12:05	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	282388	11/06/15 15:11	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	279929	10/21/15 16:31	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281901	11/04/15 10:36	JAT	TAL PEN

Client Sample ID: HM 9.5 SW (10/19/2015)

Lab Sample ID: 660-69893-3

Date Collected: 10/19/15 14:25

Matrix: Water

Date Received: 10/20/15 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162845	10/29/15 11:18	ASD	TAL TAM
Dissolved	Prep	3005A			162846	10/29/15 11:29	ASD	TAL TAM

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 9.5 SW (10/19/2015)

Lab Sample ID: 660-69893-3

Date Collected: 10/19/15 14:25

Matrix: Water

Date Received: 10/20/15 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6010B		1	163018	11/04/15 10:00	GAF	TAL TAM
Total Recoverable	Prep	3005A			162846	10/29/15 11:30	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163018	11/04/15 08:44	GAF	TAL TAM
Total/NA	Analysis	350.1		1	281200	10/29/15 15:49	JAT	TAL PEN
Total/NA	Prep	351.2			280026	10/22/15 10:35	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280655	10/27/15 09:24	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162613	10/20/15 11:33	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281126	10/29/15 11:42	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162524	10/21/15 08:30	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162525	10/21/15 08:35	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280029	10/22/15 10:37	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280320	10/23/15 19:41	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		100	280347	10/24/15 12:05	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	282388	11/06/15 14:36	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	279929	10/21/15 16:31	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281901	11/04/15 10:36	JAT	TAL PEN

Client Sample ID: HM 9.5 PW (10/19/2015)

Lab Sample ID: 660-69893-4

Date Collected: 10/19/15 14:25

Matrix: Water

Date Received: 10/20/15 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162845	10/29/15 11:18	ASD	TAL TAM
Dissolved	Prep	3005A			162846	10/29/15 11:29	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163018	11/04/15 10:04	GAF	TAL TAM
Total Recoverable	Prep	3005A			162846	10/29/15 11:30	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163018	11/04/15 09:13	GAF	TAL TAM
Total/NA	Analysis	350.1		1	281200	10/29/15 15:52	JAT	TAL PEN
Total/NA	Prep	351.2			280026	10/22/15 10:35	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280655	10/27/15 09:28	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162613	10/20/15 11:33	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281126	10/29/15 11:43	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162524	10/21/15 08:30	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162525	10/21/15 08:35	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280029	10/22/15 10:37	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280320	10/23/15 19:44	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		100	280357	10/24/15 14:02	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	282388	11/06/15 15:11	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	279929	10/21/15 16:31	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281901	11/04/15 10:36	JAT	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 10.5 SED (10/19/2015)

Lab Sample ID: 660-69893-5

Date Collected: 10/19/15 10:55

Matrix: Solid

Date Received: 10/20/15 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			279986	10/23/15 11:40	KWN	TAL PEN
Total/NA	Analysis	6010B		1	280815	10/27/15 21:50	JAS	TAL PEN
Soluble	Leach	DI Leach			280027	10/22/15 10:39	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 17:25	JAT	TAL PEN
Total/NA	Prep	351.2			280056	10/22/15 11:41	KJR	TAL PEN
Total/NA	Analysis	351.2		5	280655	10/27/15 09:46	KJR	TAL PEN
Soluble	Leach	DI Leach			280061	10/22/15 10:39	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 19:15	JAT	TAL PEN
Soluble	Leach	DI Leach			279979	10/22/15 07:15	LSS	TAL PEN
Soluble	Analysis	354.1		1	279997	10/22/15 08:49	LSS	TAL PEN
Soluble	Leach	DI Leach			279981	10/22/15 07:15	LSS	TAL PEN
Soluble	Analysis	365.1		1	279998	10/22/15 08:56	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280060	10/22/15 11:47	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280527	10/26/15 13:16	KJR	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 16:07	NAB	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9251		2	282068	11/04/15 18:03	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 19:15	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

Client Sample ID: HM 10.0 SED (10/19/2015)

Lab Sample ID: 660-69893-6

Date Collected: 10/19/15 13:15

Matrix: Solid

Date Received: 10/20/15 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			279986	10/23/15 11:40	KWN	TAL PEN
Total/NA	Analysis	6010B		1	280815	10/27/15 21:53	JAS	TAL PEN
Soluble	Leach	DI Leach			280072	10/22/15 13:42	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 17:38	JAT	TAL PEN
Total/NA	Prep	351.2			280056	10/22/15 11:41	KJR	TAL PEN
Total/NA	Analysis	351.2		2	280655	10/27/15 09:51	KJR	TAL PEN
Soluble	Leach	DI Leach			280074	10/22/15 13:42	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 19:24	JAT	TAL PEN
Soluble	Leach	DI Leach			279979	10/22/15 07:15	LSS	TAL PEN
Soluble	Analysis	354.1		1	279997	10/22/15 08:49	LSS	TAL PEN
Soluble	Leach	DI Leach			279981	10/22/15 07:15	LSS	TAL PEN
Soluble	Analysis	365.1		1	279998	10/22/15 08:56	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280060	10/22/15 11:47	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280527	10/26/15 13:19	KJR	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 16:07	NAB	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 10.0 SED (10/19/2015)

Lab Sample ID: 660-69893-6

Date Collected: 10/19/15 13:15

Matrix: Solid

Date Received: 10/20/15 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9251		2	282068	11/04/15 18:03	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 19:24	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

Client Sample ID: HM 9.5 SED (10/19/2015)

Lab Sample ID: 660-69893-7

Date Collected: 10/19/15 14:00

Matrix: Solid

Date Received: 10/20/15 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			279986	10/23/15 11:40	KWN	TAL PEN
Total/NA	Analysis	6010B		1	280815	10/27/15 21:57	JAS	TAL PEN
Soluble	Leach	DI Leach			280072	10/22/15 13:42	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 17:41	JAT	TAL PEN
Total/NA	Prep	351.2			280056	10/22/15 11:41	KJR	TAL PEN
Total/NA	Analysis	351.2		2	280655	10/27/15 09:52	KJR	TAL PEN
Soluble	Leach	DI Leach			280074	10/22/15 13:42	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 19:27	JAT	TAL PEN
Soluble	Leach	DI Leach			279979	10/22/15 07:15	LSS	TAL PEN
Soluble	Analysis	354.1		1	279997	10/22/15 08:49	LSS	TAL PEN
Soluble	Leach	DI Leach			279981	10/22/15 07:15	LSS	TAL PEN
Soluble	Analysis	365.1		1	279998	10/22/15 08:56	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280060	10/22/15 11:47	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280527	10/26/15 13:20	KJR	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 16:07	NAB	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9251		2	282068	11/04/15 18:03	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 19:27	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

Client Sample ID: HM 9.0 SED (10/19/2015)

Lab Sample ID: 660-69893-8

Date Collected: 10/19/15 15:00

Matrix: Solid

Date Received: 10/20/15 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			279986	10/23/15 11:40	KWN	TAL PEN
Total/NA	Analysis	6010B		1	280815	10/27/15 22:10	JAS	TAL PEN
Soluble	Leach	DI Leach			280072	10/22/15 13:42	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 17:44	JAT	TAL PEN
Total/NA	Prep	351.2			280056	10/22/15 11:41	KJR	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 9.0 SED (10/19/2015)

Lab Sample ID: 660-69893-8

Date Collected: 10/19/15 15:00

Matrix: Solid

Date Received: 10/20/15 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	351.2		5	280682	10/27/15 11:09	KJR	TAL PEN
Soluble	Leach	DI Leach			280074	10/22/15 13:42	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 19:28	JAT	TAL PEN
Soluble	Leach	DI Leach			279979	10/22/15 07:15	LSS	TAL PEN
Soluble	Analysis	354.1		1	279997	10/22/15 08:49	LSS	TAL PEN
Soluble	Leach	DI Leach			279981	10/22/15 07:15	LSS	TAL PEN
Soluble	Analysis	365.1		1	279998	10/22/15 09:11	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280060	10/22/15 11:47	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280527	10/26/15 13:21	KJR	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 16:07	NAB	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9251		2	282068	11/04/15 18:03	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 19:28	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

Client Sample ID: HM8.5 SW (10/20/2015)

Lab Sample ID: 660-69919-1

Date Collected: 10/20/15 09:40

Matrix: Water

Date Received: 10/21/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162897	10/30/15 12:30	ASD	TAL TAM
Dissolved	Prep	3005A			162895	10/30/15 12:48	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 18:43	ASD	TAL TAM
Total Recoverable	Prep	3005A			162895	10/30/15 11:30	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 18:03	ASD	TAL TAM
Total/NA	Analysis	350.1		1	281200	10/29/15 15:53	JAT	TAL PEN
Total/NA	Prep	351.2			280253	10/23/15 14:40	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280682	10/27/15 10:22	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162542	10/21/15 14:46	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281126	10/29/15 11:50	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162649	10/21/15 19:00	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162592	10/21/15 19:10	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280254	10/23/15 14:42	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280527	10/26/15 13:32	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		100	280357	10/24/15 14:03	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	282388	11/06/15 15:11	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	280140	10/22/15 20:13	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281901	11/04/15 10:36	JAT	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM8.5 PW (10/20/2015)

Lab Sample ID: 660-69919-2

Date Collected: 10/20/15 09:40

Matrix: Water

Date Received: 10/21/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162897	10/30/15 12:30	ASD	TAL TAM
Dissolved	Prep	3005A			162895	10/30/15 12:48	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 18:46	ASD	TAL TAM
Total Recoverable	Prep	3005A			162895	10/30/15 11:30	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 18:16	ASD	TAL TAM
Total/NA	Analysis	350.1		1	281200	10/29/15 15:54	JAT	TAL PEN
Total/NA	Prep	351.2			280253	10/23/15 14:40	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280682	10/27/15 10:23	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162542	10/21/15 14:47	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281126	10/29/15 11:51	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162649	10/21/15 19:00	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162592	10/21/15 19:10	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280254	10/23/15 14:42	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280527	10/26/15 13:33	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		100	280357	10/24/15 14:06	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	282388	11/06/15 14:36	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		5	280140	10/22/15 20:13	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281901	11/04/15 10:36	JAT	TAL PEN

Client Sample ID: HM7.5 SW (10/20/2015)

Lab Sample ID: 660-69919-3

Date Collected: 10/20/15 14:15

Matrix: Water

Date Received: 10/21/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162897	10/30/15 12:30	ASD	TAL TAM
Dissolved	Prep	3005A			162895	10/30/15 12:48	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 18:50	ASD	TAL TAM
Total Recoverable	Prep	3005A			162895	10/30/15 11:30	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 18:19	ASD	TAL TAM
Total/NA	Analysis	350.1		1	281200	10/29/15 15:55	JAT	TAL PEN
Total/NA	Prep	351.2			280253	10/23/15 14:40	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280682	10/27/15 10:24	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162542	10/21/15 14:54	ELE	TAL TAM
Total/NA	Analysis	353.2		1	280980	10/28/15 16:24	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162649	10/21/15 19:00	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162592	10/21/15 19:10	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280254	10/23/15 14:42	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280527	10/26/15 13:34	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		100	280357	10/24/15 14:06	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	282388	11/06/15 15:15	NAB	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM7.5 SW (10/20/2015)

Lab Sample ID: 660-69919-3

Date Collected: 10/20/15 14:15

Matrix: Water

Date Received: 10/21/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM3500_FE_D		1	280140	10/22/15 20:13	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281902	11/04/15 10:38	JAT	TAL PEN

Client Sample ID: HM7.5 PW (10/20/2015)

Lab Sample ID: 660-69919-4

Date Collected: 10/20/15 14:15

Matrix: Water

Date Received: 10/21/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162897	10/30/15 12:30	ASD	TAL TAM
Dissolved	Prep	3005A			162895	10/30/15 12:48	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 18:53	ASD	TAL TAM
Total Recoverable	Prep	3005A			162895	10/30/15 11:30	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 18:23	ASD	TAL TAM
Total/NA	Analysis	350.1		1	281200	10/29/15 15:56	JAT	TAL PEN
Total/NA	Prep	351.2			280253	10/23/15 14:40	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280682	10/27/15 10:25	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162542	10/21/15 14:55	ELE	TAL TAM
Total/NA	Analysis	353.2		1	280980	10/28/15 16:27	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162649	10/21/15 19:00	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162592	10/21/15 19:10	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280254	10/23/15 14:42	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280527	10/26/15 13:36	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		100	280357	10/24/15 14:06	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	282388	11/06/15 14:40	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	280140	10/22/15 20:13	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281902	11/04/15 10:38	JAT	TAL PEN

Client Sample ID: HM6.5 SW (10-20-2015)

Lab Sample ID: 660-69919-5

Date Collected: 10/20/15 14:57

Matrix: Water

Date Received: 10/21/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162897	10/30/15 12:30	ASD	TAL TAM
Dissolved	Prep	3005A			162895	10/30/15 12:48	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 18:57	ASD	TAL TAM
Total Recoverable	Prep	3005A			162895	10/30/15 11:30	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 18:33	ASD	TAL TAM
Total/NA	Analysis	350.1		1	281200	10/29/15 16:00	JAT	TAL PEN
Total/NA	Prep	351.2			280253	10/23/15 14:40	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280682	10/27/15 10:27	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162542	10/21/15 14:57	ELE	TAL TAM

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM6.5 SW (10-20-2015)

Lab Sample ID: 660-69919-5

Date Collected: 10/20/15 14:57

Matrix: Water

Date Received: 10/21/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	280980	10/28/15 16:28	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162649	10/21/15 19:00	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162592	10/21/15 19:10	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280254	10/23/15 14:42	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280527	10/26/15 13:37	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		50	280357	10/24/15 14:13	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	282388	11/06/15 14:40	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	280140	10/22/15 20:13	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281902	11/04/15 10:38	JAT	TAL PEN

Client Sample ID: HM6.5 PW (10-20-2015)

Lab Sample ID: 660-69919-6

Date Collected: 10/20/15 14:57

Matrix: Water

Date Received: 10/21/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162897	10/30/15 12:30	ASD	TAL TAM
Dissolved	Prep	3005A			162895	10/30/15 12:48	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 19:00	ASD	TAL TAM
Total Recoverable	Prep	3005A			162895	10/30/15 11:30	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 18:36	ASD	TAL TAM
Total/NA	Analysis	350.1		1	281200	10/29/15 16:01	JAT	TAL PEN
Total/NA	Prep	351.2			280253	10/23/15 14:40	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280682	10/27/15 10:30	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162542	10/21/15 14:58	ELE	TAL TAM
Total/NA	Analysis	353.2		1	280980	10/28/15 16:29	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162649	10/21/15 19:00	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162592	10/21/15 19:10	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280254	10/23/15 14:42	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280527	10/26/15 13:40	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		100	280357	10/24/15 14:06	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	282388	11/06/15 14:40	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	280140	10/22/15 20:13	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281902	11/04/15 10:38	JAT	TAL PEN

Client Sample ID: HM5.5 SW (10-20-2015)

Lab Sample ID: 660-69919-7

Date Collected: 10/20/15 15:30

Matrix: Water

Date Received: 10/21/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162980	11/03/15 10:21	ASD	TAL TAM

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM5.5 SW (10-20-2015)

Lab Sample ID: 660-69919-7

Date Collected: 10/20/15 15:30

Matrix: Water

Date Received: 10/21/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Analysis	6010B		1	163037	11/04/15 21:58	ASD	TAL TAM
Dissolved	Prep	3005A			162982	12/03/15 10:30	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 21:04	ASD	TAL TAM
Total Recoverable	Prep	3005A			162982	12/03/15 10:30	ASD	TAL TAM
Total/NA	Analysis	350.1		1	281200	10/29/15 16:02	JAT	TAL PEN
Total/NA	Prep	351.2			280253	10/23/15 14:40	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280682	10/27/15 10:31	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162542	10/21/15 14:59	ELE	TAL TAM
Total/NA	Analysis	353.2		1	280980	10/28/15 16:35	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162649	10/21/15 19:00	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162592	10/21/15 19:10	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280254	10/23/15 14:42	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280527	10/26/15 13:41	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		50	280357	10/24/15 14:16	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	282388	11/06/15 14:44	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	280140	10/22/15 20:13	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281902	11/04/15 10:38	JAT	TAL PEN

Client Sample ID: HM5.5 PW (10-20-2015)

Lab Sample ID: 660-69919-8

Date Collected: 10/20/15 15:30

Matrix: Water

Date Received: 10/21/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162980	11/03/15 10:21	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 22:02	ASD	TAL TAM
Dissolved	Prep	3005A			162982	12/03/15 10:30	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 21:17	ASD	TAL TAM
Total Recoverable	Prep	3005A			162982	12/03/15 10:30	ASD	TAL TAM
Total/NA	Analysis	350.1		1	281200	10/29/15 16:05	JAT	TAL PEN
Total/NA	Prep	351.2			280253	10/23/15 14:40	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280682	10/27/15 10:32	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162542	10/21/15 15:03	ELE	TAL TAM
Total/NA	Analysis	353.2		1	280980	10/28/15 16:36	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162649	10/21/15 19:00	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162592	10/21/15 19:10	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280254	10/23/15 14:42	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280527	10/26/15 13:42	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		50	280357	10/24/15 14:13	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	282388	11/06/15 14:44	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	280140	10/22/15 20:13	JAT	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM5.5 PW (10-20-2015)

Lab Sample ID: 660-69919-8

Date Collected: 10/20/15 15:30

Matrix: Water

Date Received: 10/21/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total Nitrogen		1	281902	11/04/15 10:38	JAT	TAL PEN

Client Sample ID: HM4.5 SW(10/20/2015)

Lab Sample ID: 660-69919-9

Date Collected: 10/20/15 16:55

Matrix: Water

Date Received: 10/21/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162980	11/03/15 10:21	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 22:05	ASD	TAL TAM
Dissolved	Prep	3005A			162982	12/03/15 10:30	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 21:21	ASD	TAL TAM
Total Recoverable	Prep	3005A			162982	12/03/15 10:30	ASD	TAL TAM
Total/NA	Analysis	350.1		5	281200	10/29/15 16:27	JAT	TAL PEN
Total/NA	Prep	351.2			280253	10/23/15 14:40	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280682	10/27/15 10:33	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162542	10/21/15 15:05	ELE	TAL TAM
Total/NA	Analysis	353.2		1	280980	10/28/15 16:37	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162649	10/21/15 19:00	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162592	10/21/15 19:10	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280254	10/23/15 14:42	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280527	10/26/15 13:43	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		100	280357	10/24/15 14:06	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	282388	11/06/15 14:44	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	280140	10/22/15 20:14	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281902	11/04/15 10:38	JAT	TAL PEN

Client Sample ID: HM4.5 PW (10-20-2015)

Lab Sample ID: 660-69919-10

Date Collected: 10/20/15 16:55

Matrix: Water

Date Received: 10/21/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162980	11/03/15 10:21	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 22:15	ASD	TAL TAM
Dissolved	Prep	3005A			162982	12/03/15 10:30	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 21:24	ASD	TAL TAM
Total Recoverable	Prep	3005A			162982	12/03/15 10:30	ASD	TAL TAM
Total/NA	Analysis	350.1		1	281200	10/29/15 16:08	JAT	TAL PEN
Total/NA	Prep	351.2			280253	10/23/15 14:40	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280682	10/27/15 10:34	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162542	10/21/15 15:06	ELE	TAL TAM
Total/NA	Analysis	353.2		1	280980	10/28/15 16:38	JAT	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM4.5 PW (10-20-2015)

Lab Sample ID: 660-69919-10

Date Collected: 10/20/15 16:55

Matrix: Water

Date Received: 10/21/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162649	10/21/15 19:00	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162592	10/21/15 19:10	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280254	10/23/15 14:42	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280527	10/26/15 13:45	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		50	280357	10/24/15 14:16	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	282388	11/06/15 14:44	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	280140	10/22/15 20:14	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281902	11/04/15 10:38	JAT	TAL PEN

Client Sample ID: HM3.5 SW (10-20-2015)

Lab Sample ID: 660-69919-11

Date Collected: 10/20/15 17:40

Matrix: Water

Date Received: 10/21/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162980	11/03/15 10:21	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 22:19	ASD	TAL TAM
Dissolved	Prep	3005A			162982	12/03/15 10:30	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 21:34	ASD	TAL TAM
Total Recoverable	Prep	3005A			162982	12/03/15 10:30	ASD	TAL TAM
Total/NA	Analysis	350.1		1	281200	10/29/15 16:09	JAT	TAL PEN
Total/NA	Prep	351.2			280253	10/23/15 14:40	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280682	10/27/15 10:35	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162542	10/21/15 15:15	ELE	TAL TAM
Total/NA	Analysis	353.2		1	280980	10/28/15 16:39	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162649	10/21/15 19:00	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162592	10/21/15 19:10	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280254	10/23/15 14:42	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280527	10/26/15 13:46	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		100	280357	10/24/15 14:13	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	282388	11/06/15 15:15	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	280140	10/22/15 20:14	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281902	11/04/15 10:38	JAT	TAL PEN

Client Sample ID: HM3.5 PW (10/20/2015)

Lab Sample ID: 660-69919-12

Date Collected: 10/20/15 17:40

Matrix: Water

Date Received: 10/21/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162980	11/03/15 10:21	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 22:22	ASD	TAL TAM

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM3.5 PW (10/20/2015)

Lab Sample ID: 660-69919-12

Date Collected: 10/20/15 17:40

Matrix: Water

Date Received: 10/21/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			162982	12/03/15 10:30	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 21:38	ASD	TAL TAM
Total Recoverable	Prep	3005A			162982	12/03/15 10:30	ASD	TAL TAM
Total/NA	Analysis	350.1		1	281200	10/29/15 16:10	JAT	TAL PEN
Total/NA	Prep	351.2			280253	10/23/15 14:40	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280682	10/27/15 10:36	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162542	10/21/15 15:17	ELE	TAL TAM
Total/NA	Analysis	353.2		1	280980	10/28/15 16:40	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162649	10/21/15 19:00	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162592	10/21/15 19:10	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280254	10/23/15 14:42	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280527	10/26/15 13:47	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		100	280357	10/24/15 14:06	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	282388	11/06/15 14:48	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	280140	10/22/15 20:14	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281902	11/04/15 10:38	JAT	TAL PEN

Client Sample ID: HM8.5 SED (10/20/2015)

Lab Sample ID: 660-69919-13

Date Collected: 10/20/15 09:10

Matrix: Solid

Date Received: 10/21/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			280181	10/23/15 11:40	SEH	TAL PEN
Total/NA	Analysis	6010B		1	281073	10/28/15 23:02	GESP	TAL PEN
Soluble	Leach	DI Leach			280072	10/22/15 13:42	JAT	TAL PEN
Soluble	Analysis	350.1		1	280135	10/22/15 17:46	JAT	TAL PEN
Total/NA	Prep	351.2			280312	10/23/15 18:36	KJR	TAL PEN
Total/NA	Analysis	351.2		5	280682	10/27/15 11:10	KJR	TAL PEN
Soluble	Leach	DI Leach			280074	10/22/15 13:42	JAT	TAL PEN
Soluble	Analysis	353.2		1	280319	10/23/15 19:29	JAT	TAL PEN
Soluble	Leach	DI Leach			280238	10/23/15 13:10	LSS	TAL PEN
Soluble	Analysis	354.1		1	280294	10/23/15 16:58	LSS	TAL PEN
Soluble	Leach	DI Leach			280239	10/23/15 13:13	LSS	TAL PEN
Soluble	Analysis	365.1		1	280295	10/23/15 17:06	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280313	10/23/15 18:39	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280562	10/26/15 15:20	KJR	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 16:07	NAB	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 16:09	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	280919	10/28/15 11:54	LEC	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM8.5 SED (10/20/2015)

Lab Sample ID: 660-69919-13

Date Collected: 10/20/15 09:10

Matrix: Solid

Date Received: 10/21/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Analysis	Nitrate by calc		1	282326	10/23/15 19:29	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281908	11/04/15 10:56	JAT	TAL PEN

Client Sample ID: HM 8.0SED (10/21/2015)

Lab Sample ID: 660-69974-1

Date Collected: 10/21/15 09:35

Matrix: Solid

Date Received: 10/22/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			280268	10/24/15 12:58	SEH	TAL PEN
Total/NA	Analysis	6010B		1	281232	10/29/15 19:24	GESP	TAL PEN
Soluble	Leach	DI Leach			281561	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 18:45	JAT	TAL PEN
Total/NA	Prep	351.2			280312	10/23/15 18:36	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280682	10/27/15 10:53	KJR	TAL PEN
Soluble	Leach	DI Leach			281558	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:07	JAT	TAL PEN
Soluble	Leach	DI Leach			280238	10/23/15 13:10	LSS	TAL PEN
Soluble	Analysis	354.1		1	280294	10/23/15 16:58	LSS	TAL PEN
Soluble	Leach	DI Leach			280239	10/23/15 13:13	LSS	TAL PEN
Soluble	Analysis	365.1		1	280295	10/23/15 17:06	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280313	10/23/15 18:39	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280562	10/26/15 15:24	KJR	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 16:07	NAB	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 16:15	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:07	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: HM 7.5 SED (10/21/2015)

Lab Sample ID: 660-69974-2

Date Collected: 10/21/15 10:00

Matrix: Solid

Date Received: 10/22/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			280268	10/24/15 12:58	SEH	TAL PEN
Total/NA	Analysis	6010B		1	281232	10/29/15 19:51	GESP	TAL PEN
Soluble	Leach	DI Leach			281561	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 18:49	JAT	TAL PEN
Total/NA	Prep	351.2			280312	10/23/15 18:36	KJR	TAL PEN
Total/NA	Analysis	351.2		2	280682	10/27/15 11:15	KJR	TAL PEN
Soluble	Leach	DI Leach			281558	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:11	JAT	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 7.5 SED (10/21/2015)

Lab Sample ID: 660-69974-2

Date Collected: 10/21/15 10:00

Matrix: Solid

Date Received: 10/22/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			280238	10/23/15 13:10	LSS	TAL PEN
Soluble	Analysis	354.1		1	280294	10/23/15 16:58	LSS	TAL PEN
Soluble	Leach	DI Leach			280239	10/23/15 13:13	LSS	TAL PEN
Soluble	Analysis	365.1		1	280295	10/23/15 17:06	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280313	10/23/15 18:39	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280562	10/26/15 15:25	KJR	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 16:17	NAB	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 16:09	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:11	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: HM 7.0 SED (10/21/2015)

Lab Sample ID: 660-69974-3

Date Collected: 10/21/15 10:30

Matrix: Solid

Date Received: 10/22/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			280268	10/24/15 12:58	SEH	TAL PEN
Total/NA	Analysis	6010B		1	281232	10/29/15 19:54	GESP	TAL PEN
Soluble	Leach	DI Leach			281561	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 18:50	JAT	TAL PEN
Total/NA	Prep	351.2			280312	10/23/15 18:36	KJR	TAL PEN
Total/NA	Analysis	351.2		5	280682	10/27/15 11:16	KJR	TAL PEN
Soluble	Leach	DI Leach			281558	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:12	JAT	TAL PEN
Soluble	Leach	DI Leach			280238	10/23/15 13:10	LSS	TAL PEN
Soluble	Analysis	354.1		1	280294	10/23/15 16:58	LSS	TAL PEN
Soluble	Leach	DI Leach			280239	10/23/15 13:13	LSS	TAL PEN
Soluble	Analysis	365.1		1	280295	10/23/15 17:06	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280313	10/23/15 18:39	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280562	10/26/15 15:26	KJR	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 16:17	NAB	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9251		2	282068	11/04/15 16:47	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:12	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 6.5 SED (10/21/2015)

Lab Sample ID: 660-69974-4

Date Collected: 10/21/15 11:05

Matrix: Solid

Date Received: 10/22/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			280268	10/24/15 12:58	SEH	TAL PEN
Total/NA	Analysis	6010B		1	281232	10/29/15 19:57	GESP	TAL PEN
Soluble	Leach	DI Leach			281561	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 18:51	JAT	TAL PEN
Total/NA	Prep	351.2			280312	10/23/15 18:36	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280682	10/27/15 10:56	KJR	TAL PEN
Soluble	Leach	DI Leach			281558	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:13	JAT	TAL PEN
Soluble	Leach	DI Leach			280238	10/23/15 13:10	LSS	TAL PEN
Soluble	Analysis	354.1		1	280294	10/23/15 16:58	LSS	TAL PEN
Soluble	Leach	DI Leach			280239	10/23/15 13:13	LSS	TAL PEN
Soluble	Analysis	365.1		1	280295	10/23/15 17:06	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280313	10/23/15 18:39	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280562	10/26/15 15:27	KJR	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 16:07	NAB	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 16:09	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:13	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: HM 6.0 SED (10/21/2015)

Lab Sample ID: 660-69974-5

Date Collected: 10/21/15 12:00

Matrix: Solid

Date Received: 10/22/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			280268	10/24/15 12:58	SEH	TAL PEN
Total/NA	Analysis	6010B		1	281232	10/29/15 20:01	GESP	TAL PEN
Soluble	Leach	DI Leach			281561	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 18:52	JAT	TAL PEN
Total/NA	Prep	351.2			280312	10/23/15 18:36	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280682	10/27/15 10:57	KJR	TAL PEN
Soluble	Leach	DI Leach			281558	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:14	JAT	TAL PEN
Soluble	Leach	DI Leach			280238	10/23/15 13:10	LSS	TAL PEN
Soluble	Analysis	354.1		1	280294	10/23/15 16:58	LSS	TAL PEN
Soluble	Leach	DI Leach			280239	10/23/15 13:13	LSS	TAL PEN
Soluble	Analysis	365.1		1	280295	10/23/15 17:06	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280313	10/23/15 18:39	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280562	10/26/15 15:28	KJR	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 16:17	NAB	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 6.0 SED (10/21/2015)

Lab Sample ID: 660-69974-5

Date Collected: 10/21/15 12:00

Matrix: Solid

Date Received: 10/22/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 16:09	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:14	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: HM 5.5 SED (10/21/2015)

Lab Sample ID: 660-69974-6

Date Collected: 10/21/15 13:30

Matrix: Solid

Date Received: 10/22/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			280268	10/24/15 12:58	SEH	TAL PEN
Total/NA	Analysis	6010B		1	281232	10/29/15 20:04	GESP	TAL PEN
Soluble	Leach	DI Leach			281561	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 18:53	JAT	TAL PEN
Total/NA	Prep	351.2			280312	10/23/15 18:36	KJR	TAL PEN
Total/NA	Analysis	351.2		2	280682	10/27/15 11:17	KJR	TAL PEN
Soluble	Leach	DI Leach			281558	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:15	JAT	TAL PEN
Soluble	Leach	DI Leach			280238	10/23/15 13:10	LSS	TAL PEN
Soluble	Analysis	354.1		1	280294	10/23/15 16:58	LSS	TAL PEN
Soluble	Leach	DI Leach			280239	10/23/15 13:13	LSS	TAL PEN
Soluble	Analysis	365.1		1	280295	10/23/15 17:06	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280313	10/23/15 18:39	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280562	10/26/15 15:35	KJR	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 16:17	NAB	TAL PEN
Soluble	Leach	DI Leach			281998	11/04/15 10:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 16:15	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:15	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: HM 5.0 SED (10/21/2015)

Lab Sample ID: 660-69974-7

Date Collected: 10/21/15 14:00

Matrix: Solid

Date Received: 10/22/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			280268	10/24/15 12:58	SEH	TAL PEN
Total/NA	Analysis	6010B		1	281232	10/29/15 20:07	GESP	TAL PEN
Soluble	Leach	DI Leach			281561	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 18:57	JAT	TAL PEN
Total/NA	Prep	351.2			280312	10/23/15 18:36	KJR	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 5.0 SED (10/21/2015)

Lab Sample ID: 660-69974-7

Date Collected: 10/21/15 14:00

Matrix: Solid

Date Received: 10/22/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	351.2		1	280682	10/27/15 11:02	KJR	TAL PEN
Soluble	Leach	DI Leach			281558	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:21	JAT	TAL PEN
Soluble	Leach	DI Leach			280238	10/23/15 13:12	LSS	TAL PEN
Soluble	Analysis	354.1		1	280294	10/23/15 16:58	LSS	TAL PEN
Soluble	Leach	DI Leach			280239	10/23/15 13:13	LSS	TAL PEN
Soluble	Analysis	365.1		1	280295	10/23/15 17:06	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280313	10/23/15 18:39	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280562	10/26/15 15:37	KJR	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 18:51	NAB	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 18:58	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:21	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: HM 4.5 SED (10/21/2015)

Lab Sample ID: 660-69974-8

Date Collected: 10/21/15 14:30

Matrix: Solid

Date Received: 10/22/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			280268	10/24/15 12:58	SEH	TAL PEN
Total/NA	Analysis	6010B		1	281232	10/29/15 20:11	GESP	TAL PEN
Soluble	Leach	DI Leach			281561	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 18:58	JAT	TAL PEN
Total/NA	Prep	351.2			280312	10/23/15 18:36	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280682	10/27/15 11:03	KJR	TAL PEN
Soluble	Leach	DI Leach			281558	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:22	JAT	TAL PEN
Soluble	Leach	DI Leach			280238	10/23/15 13:12	LSS	TAL PEN
Soluble	Analysis	354.1		1	280294	10/23/15 17:12	LSS	TAL PEN
Soluble	Leach	DI Leach			280239	10/23/15 13:13	LSS	TAL PEN
Soluble	Analysis	365.1		1	280295	10/23/15 17:10	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280313	10/23/15 18:39	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280562	10/26/15 15:38	KJR	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 18:51	NAB	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 18:58	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:22	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 4.0 SED (10/21/2015)

Lab Sample ID: 660-69974-9

Date Collected: 10/21/15 14:55

Matrix: Solid

Date Received: 10/22/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			280268	10/24/15 12:58	SEH	TAL PEN
Total/NA	Analysis	6010B		1	281232	10/29/15 20:14	GESP	TAL PEN
Soluble	Leach	DI Leach			281561	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 18:59	JAT	TAL PEN
Total/NA	Prep	351.2			280312	10/23/15 18:36	KJR	TAL PEN
Total/NA	Analysis	351.2		2	280682	10/27/15 11:19	KJR	TAL PEN
Soluble	Leach	DI Leach			281558	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:23	JAT	TAL PEN
Soluble	Leach	DI Leach			280238	10/23/15 13:10	LSS	TAL PEN
Soluble	Analysis	354.1		1	280294	10/23/15 17:12	LSS	TAL PEN
Soluble	Leach	DI Leach			280239	10/23/15 13:13	LSS	TAL PEN
Soluble	Analysis	365.1		1	280295	10/23/15 17:10	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280313	10/23/15 18:39	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280562	10/26/15 15:39	KJR	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 18:51	NAB	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 18:58	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:23	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: HM 3.5 SED (10/21/2015)

Lab Sample ID: 660-69974-10

Date Collected: 10/21/15 15:20

Matrix: Solid

Date Received: 10/22/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			280268	10/24/15 12:58	SEH	TAL PEN
Total/NA	Analysis	6010B		1	281232	10/29/15 20:18	GESP	TAL PEN
Soluble	Leach	DI Leach			281561	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:00	JAT	TAL PEN
Total/NA	Prep	351.2			280312	10/23/15 18:36	KJR	TAL PEN
Total/NA	Analysis	351.2		2	280682	10/27/15 11:20	KJR	TAL PEN
Soluble	Leach	DI Leach			281558	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:24	JAT	TAL PEN
Soluble	Leach	DI Leach			280238	10/23/15 13:10	LSS	TAL PEN
Soluble	Analysis	354.1		1	280294	10/23/15 17:12	LSS	TAL PEN
Soluble	Leach	DI Leach			280239	10/23/15 13:13	LSS	TAL PEN
Soluble	Analysis	365.1		1	280295	10/23/15 17:10	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280313	10/23/15 18:39	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280562	10/26/15 15:40	KJR	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 18:51	NAB	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 3.5 SED (10/21/2015)

Lab Sample ID: 660-69974-10

Date Collected: 10/21/15 15:20

Matrix: Solid

Date Received: 10/22/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 18:58	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:24	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: HM 3.0 SED (10/21/2015)

Lab Sample ID: 660-69974-11

Date Collected: 10/21/15 15:45

Matrix: Solid

Date Received: 10/22/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			280268	10/24/15 12:58	SEH	TAL PEN
Total/NA	Analysis	6010B		1	281232	10/29/15 20:21	GESP	TAL PEN
Soluble	Leach	DI Leach			281561	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:01	JAT	TAL PEN
Total/NA	Prep	351.2			281976	11/04/15 15:40	KJR	TAL PEN
Total/NA	Analysis	351.2		1	282264	11/06/15 08:18	KJR	TAL PEN
Soluble	Leach	DI Leach			281558	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:25	JAT	TAL PEN
Soluble	Leach	DI Leach			280238	10/23/15 13:10	LSS	TAL PEN
Soluble	Analysis	354.1		1	280294	10/23/15 17:12	LSS	TAL PEN
Soluble	Leach	DI Leach			280239	10/23/15 13:13	LSS	TAL PEN
Soluble	Analysis	365.1		1	280295	10/23/15 17:10	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280313	10/23/15 18:39	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280562	10/26/15 15:41	KJR	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 18:51	NAB	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9251		2	282068	11/04/15 19:24	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:25	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: HM 2.5 SW (10/21/2015)

Lab Sample ID: 660-69974-12

Date Collected: 10/21/15 16:30

Matrix: Water

Date Received: 10/22/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162980	11/03/15 10:21	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 22:26	ASD	TAL TAM
Dissolved	Prep	3005A			162982	12/03/15 10:30	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 21:41	ASD	TAL TAM
Total Recoverable	Prep	3005A			162982	12/03/15 10:30	ASD	TAL TAM

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM 2.5 SW (10/21/2015)

Lab Sample ID: 660-69974-12

Date Collected: 10/21/15 16:30

Matrix: Water

Date Received: 10/22/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	281200	10/29/15 16:11	JAT	TAL PEN
Total/NA	Prep	351.2			280253	10/23/15 14:40	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280682	10/27/15 10:40	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162589	10/22/15 16:08	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281012	10/28/15 17:15	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162782	10/23/15 13:20	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162783	10/23/15 13:30	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280254	10/23/15 14:42	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280527	10/26/15 13:50	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		20	280357	10/24/15 14:16	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		5	282388	11/06/15 15:40	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	280140	10/26/15 14:11	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281904	11/04/15 10:40	JAT	TAL PEN

Client Sample ID: HM 2.5 PW (10/21/2015)

Lab Sample ID: 660-69974-13

Date Collected: 10/21/15 16:30

Matrix: Water

Date Received: 10/22/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162980	11/03/15 10:21	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 22:29	ASD	TAL TAM
Dissolved	Prep	3005A			162982	12/03/15 10:30	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 21:45	ASD	TAL TAM
Total Recoverable	Prep	3005A			162982	12/03/15 10:30	ASD	TAL TAM
Total/NA	Analysis	350.1		1	282218	11/05/15 16:23	JAT	TAL PEN
Total/NA	Prep	351.2			280253	10/23/15 14:40	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280682	10/27/15 10:43	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162589	10/22/15 16:09	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281012	10/28/15 17:16	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162782	10/23/15 13:20	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162783	10/23/15 13:30	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280254	10/23/15 14:42	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280527	10/26/15 13:53	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		50	280357	10/24/15 14:16	LSS	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	282388	11/06/15 15:18	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	280140	10/26/15 14:11	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281904	11/04/15 10:40	JAT	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM SED 2.5 (10/21/2015)

Lab Sample ID: 660-69974-14

Date Collected: 10/21/15 16:20

Matrix: Solid

Date Received: 10/22/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			280268	10/24/15 12:58	SEH	TAL PEN
Total/NA	Analysis	6010B		1	281232	10/29/15 20:34	GESP	TAL PEN
Soluble	Leach	DI Leach			281561	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:04	JAT	TAL PEN
Total/NA	Prep	351.2			280312	10/23/15 18:36	KJR	TAL PEN
Total/NA	Analysis	351.2		1	280682	10/27/15 11:07	KJR	TAL PEN
Soluble	Leach	DI Leach			281558	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:28	JAT	TAL PEN
Soluble	Leach	DI Leach			280238	10/23/15 13:10	LSS	TAL PEN
Soluble	Analysis	354.1		1	280294	10/23/15 17:12	LSS	TAL PEN
Soluble	Leach	DI Leach			280239	10/23/15 13:13	LSS	TAL PEN
Soluble	Analysis	365.1		1	280295	10/23/15 17:10	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280313	10/23/15 18:39	KJR	TAL PEN
Total/NA	Analysis	365.4		1	280562	10/26/15 15:42	KJR	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 18:51	NAB	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 18:58	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:28	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: HM1.5 SW(10/22/2015)

Lab Sample ID: 660-70002-1

Date Collected: 10/22/15 10:10

Matrix: Water

Date Received: 10/23/15 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162980	11/03/15 10:21	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 22:33	ASD	TAL TAM
Dissolved	Prep	3005A			162982	12/03/15 10:30	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 21:48	ASD	TAL TAM
Total Recoverable	Prep	3005A			162982	12/03/15 10:30	ASD	TAL TAM
Total/NA	Analysis	350.1		1	282218	11/05/15 16:24	JAT	TAL PEN
Total/NA	Prep	351.2			280732	10/27/15 15:30	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281013	10/28/15 16:43	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162652	10/23/15 16:28	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281012	10/28/15 17:17	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162782	10/23/15 13:20	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162783	10/23/15 13:30	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280734	10/27/15 15:32	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281128	10/29/15 11:58	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		50	281412	10/31/15 14:45	NAB	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM1.5 SW(10/22/2015)

Lab Sample ID: 660-70002-1

Date Collected: 10/22/15 10:10

Matrix: Water

Date Received: 10/23/15 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		10	282408	11/06/15 17:19	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	280140	10/26/15 14:11	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281904	11/04/15 10:40	JAT	TAL PEN

Client Sample ID: HM1.5 PW(10/22/2015)

Lab Sample ID: 660-70002-2

Date Collected: 10/22/15 10:10

Matrix: Water

Date Received: 10/23/15 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162980	11/03/15 10:21	ASD	TAL TAM
Dissolved	Prep	3005A			162982	11/03/15 10:46	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 22:36	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 21:52	ASD	TAL TAM
Total Recoverable	Prep	3005A			162982	12/03/15 10:30	ASD	TAL TAM
Total/NA	Analysis	350.1		1	282218	11/05/15 16:25	JAT	TAL PEN
Total/NA	Prep	351.2			280732	10/27/15 15:30	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281013	10/28/15 16:44	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162652	10/23/15 16:32	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281012	10/28/15 17:19	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162782	10/23/15 13:20	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162783	10/23/15 13:30	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280734	10/27/15 15:32	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281128	10/29/15 11:59	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		50	281412	10/31/15 14:45	NAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		10	282408	11/06/15 17:19	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	280140	10/26/15 14:11	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281904	11/04/15 10:40	JAT	TAL PEN

Client Sample ID: WW8.5SW(10/22/2015)

Lab Sample ID: 660-70002-3

Date Collected: 10/22/15 17:05

Matrix: Water

Date Received: 10/23/15 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			163006	11/03/15 14:03	ASD	TAL TAM
Dissolved	Prep	3005A			163023	11/04/15 08:13	GAF	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 14:56	ASD	TAL TAM
Total Recoverable	Prep	3005A			163023	11/04/15 07:41	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 14:26	ASD	TAL TAM
Total/NA	Analysis	350.1		1	282218	11/05/15 16:26	JAT	TAL PEN
Total/NA	Prep	351.2			280732	10/27/15 15:30	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281013	10/28/15 16:36	KJR	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW8.5SW(10/22/2015)

Lab Sample ID: 660-70002-3

Date Collected: 10/22/15 17:05

Matrix: Water

Date Received: 10/23/15 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	162652	10/23/15 16:33	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281012	10/28/15 17:20	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162782	10/23/15 13:20	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162783	10/23/15 13:30	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280734	10/27/15 15:32	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281128	10/29/15 11:51	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		1	281412	10/31/15 14:14	NAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	282408	11/06/15 16:47	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	280140	10/26/15 14:11	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281904	11/04/15 10:40	JAT	TAL PEN

Client Sample ID: WW8.5PW(10/22/2015)

Lab Sample ID: 660-70002-4

Date Collected: 10/22/15 17:05

Matrix: Water

Date Received: 10/23/15 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			163006	11/03/15 14:03	ASD	TAL TAM
Dissolved	Prep	3005A			163023	11/04/15 08:13	GAF	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 14:59	ASD	TAL TAM
Total Recoverable	Prep	3005A			163023	11/04/15 07:41	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 14:29	ASD	TAL TAM
Total/NA	Analysis	350.1		1	282218	11/05/15 16:31	JAT	TAL PEN
Total/NA	Prep	351.2			280732	10/27/15 15:30	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281013	10/28/15 16:37	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162652	10/23/15 16:34	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281012	10/28/15 17:26	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162782	10/23/15 13:20	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162783	10/23/15 13:30	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280734	10/27/15 15:32	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281128	10/29/15 11:52	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		100	281412	10/31/15 14:45	NAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	282408	11/06/15 16:47	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	280140	10/26/15 14:11	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281904	11/04/15 10:40	JAT	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM2.0SED(10/22/2015)

Lab Sample ID: 660-70002-5

Date Collected: 10/22/15 09:50

Matrix: Solid

Date Received: 10/23/15 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			281286	10/31/15 13:21	CLM	TAL PEN
Total/NA	Analysis	6010B		1	281870	11/03/15 19:55	GESP	TAL PEN
Soluble	Leach	DI Leach			281561	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:06	JAT	TAL PEN
Total/NA	Prep	351.2			280738	10/27/15 15:37	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281105	10/29/15 10:21	KJR	TAL PEN
Soluble	Leach	DI Leach			281558	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:29	JAT	TAL PEN
Soluble	Leach	DI Leach			280352	10/24/15 09:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	280354	10/24/15 13:23	LSS	TAL PEN
Soluble	Leach	DI Leach			280353	10/24/15 09:00	LSS	TAL PEN
Soluble	Analysis	365.1		1	280355	10/24/15 13:31	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280741	10/27/15 15:39	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281158	10/29/15 14:20	KJR	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 18:51	NAB	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 18:58	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:29	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: HM1.5SED(10/22/2015)

Lab Sample ID: 660-70002-6

Date Collected: 10/22/15 10:30

Matrix: Solid

Date Received: 10/23/15 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			281286	10/31/15 13:21	CLM	TAL PEN
Total/NA	Analysis	6010B		1	281870	11/03/15 19:59	GESP	TAL PEN
Soluble	Leach	DI Leach			281561	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:07	JAT	TAL PEN
Total/NA	Prep	351.2			280738	10/27/15 15:37	KJR	TAL PEN
Total/NA	Analysis	351.2		2	281105	10/29/15 10:37	KJR	TAL PEN
Soluble	Leach	DI Leach			281558	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:30	JAT	TAL PEN
Soluble	Leach	DI Leach			280352	10/24/15 09:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	280354	10/24/15 13:23	LSS	TAL PEN
Soluble	Leach	DI Leach			280353	10/24/15 09:00	LSS	TAL PEN
Soluble	Analysis	365.1		1	280355	10/24/15 13:31	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280741	10/27/15 15:39	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281158	10/29/15 14:24	KJR	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 18:51	NAB	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: HM1.5SED(10/22/2015)

Lab Sample ID: 660-70002-6

Date Collected: 10/22/15 10:30

Matrix: Solid

Date Received: 10/23/15 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 18:58	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:30	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: HM1.0SED(10/22/2015)

Lab Sample ID: 660-70002-7

Date Collected: 10/22/15 12:30

Matrix: Solid

Date Received: 10/23/15 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			281286	10/31/15 13:21	CLM	TAL PEN
Total/NA	Analysis	6010B		1	281870	11/03/15 20:02	GESP	TAL PEN
Soluble	Leach	DI Leach			281561	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:10	JAT	TAL PEN
Total/NA	Prep	351.2			280738	10/27/15 15:37	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281105	10/29/15 10:25	KJR	TAL PEN
Soluble	Leach	DI Leach			281558	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:36	JAT	TAL PEN
Soluble	Leach	DI Leach			280352	10/24/15 09:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	280354	10/24/15 13:23	LSS	TAL PEN
Soluble	Leach	DI Leach			280353	10/24/15 09:00	LSS	TAL PEN
Soluble	Analysis	365.1		1	280355	10/24/15 13:31	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280741	10/27/15 15:39	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281158	10/29/15 14:25	KJR	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 19:05	NAB	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 18:58	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:36	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: WW9.5SED(10/22/2015)

Lab Sample ID: 660-70002-8

Date Collected: 10/22/15 15:20

Matrix: Solid

Date Received: 10/23/15 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			281286	10/31/15 13:21	CLM	TAL PEN
Total/NA	Analysis	6010B		1	281870	11/03/15 20:05	GESP	TAL PEN
Soluble	Leach	DI Leach			281561	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:11	JAT	TAL PEN
Total/NA	Prep	351.2			280738	10/27/15 15:37	KJR	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW9.5SED(10/22/2015)

Lab Sample ID: 660-70002-8

Date Collected: 10/22/15 15:20

Matrix: Solid

Date Received: 10/23/15 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	351.2		1	281105	10/29/15 10:26	KJR	TAL PEN
Soluble	Leach	DI Leach			281558	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:37	JAT	TAL PEN
Soluble	Leach	DI Leach			280352	10/24/15 09:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	280354	10/24/15 13:23	LSS	TAL PEN
Soluble	Leach	DI Leach			280353	10/24/15 09:00	LSS	TAL PEN
Soluble	Analysis	365.1		1	280355	10/24/15 13:31	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280741	10/27/15 15:39	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281158	10/29/15 14:26	KJR	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 19:05	NAB	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 18:58	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:37	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: WW9.0SED(10/22/2015)

Lab Sample ID: 660-70002-9

Date Collected: 10/22/15 15:50

Matrix: Solid

Date Received: 10/23/15 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			281286	10/31/15 13:21	CLM	TAL PEN
Total/NA	Analysis	6010B		1	281870	11/03/15 20:09	GESP	TAL PEN
Soluble	Leach	DI Leach			281561	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:12	JAT	TAL PEN
Total/NA	Prep	351.2			280738	10/27/15 15:37	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281105	10/29/15 10:27	KJR	TAL PEN
Soluble	Leach	DI Leach			281558	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:38	JAT	TAL PEN
Soluble	Leach	DI Leach			280352	10/24/15 09:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	280354	10/24/15 13:23	LSS	TAL PEN
Soluble	Leach	DI Leach			280353	10/24/15 09:00	LSS	TAL PEN
Soluble	Analysis	365.1		1	280355	10/24/15 13:31	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280741	10/27/15 15:39	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281158	10/29/15 14:27	KJR	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 19:05	NAB	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 19:12	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:38	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW8.5SED(10/22/2015)

Lab Sample ID: 660-70002-10

Date Collected: 10/22/15 16:35

Matrix: Solid

Date Received: 10/23/15 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			281286	10/31/15 13:21	CLM	TAL PEN
Total/NA	Analysis	6010B		1	281870	11/03/15 20:12	GESP	TAL PEN
Soluble	Leach	DI Leach			281561	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:13	JAT	TAL PEN
Total/NA	Prep	351.2			280738	10/27/15 15:37	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281105	10/29/15 10:28	KJR	TAL PEN
Soluble	Leach	DI Leach			281558	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:39	JAT	TAL PEN
Soluble	Leach	DI Leach			280352	10/24/15 09:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	280354	10/24/15 13:23	LSS	TAL PEN
Soluble	Leach	DI Leach			280353	10/24/15 09:00	LSS	TAL PEN
Soluble	Analysis	365.1		1	280355	10/24/15 14:08	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280741	10/27/15 15:39	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281158	10/29/15 14:28	KJR	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 19:05	NAB	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 19:12	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:39	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: WW7.5SW(10/23/2015)

Lab Sample ID: 660-70026-1

Date Collected: 10/23/15 10:30

Matrix: Water

Date Received: 10/24/15 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			163006	11/03/15 14:03	ASD	TAL TAM
Dissolved	Prep	3005A			163023	11/04/15 08:13	GAF	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 15:03	ASD	TAL TAM
Total Recoverable	Prep	3005A			163023	11/04/15 07:41	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 14:33	ASD	TAL TAM
Total/NA	Analysis	350.1		1	282218	11/05/15 16:32	JAT	TAL PEN
Total/NA	Prep	351.2			280732	10/27/15 15:30	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281013	10/28/15 16:38	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162662	10/24/15 13:53	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281126	10/29/15 11:52	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162789	10/24/15 13:50	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162791	10/24/15 13:55	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280734	10/27/15 15:32	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281128	10/29/15 11:53	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		1	281412	10/31/15 14:14	NAB	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW7.5SW(10/23/2015)

Lab Sample ID: 660-70026-1

Date Collected: 10/23/15 10:30

Matrix: Water

Date Received: 10/24/15 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		1	282408	11/06/15 17:16	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	281222	10/29/15 19:04	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281901	11/04/15 10:36	JAT	TAL PEN

Client Sample ID: WW7.5 PW(10/23/2015)

Lab Sample ID: 660-70026-2

Date Collected: 10/23/15 10:30

Matrix: Water

Date Received: 10/24/15 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			163006	11/03/15 14:03	ASD	TAL TAM
Dissolved	Prep	3005A			163023	11/04/15 08:13	GAF	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 15:06	ASD	TAL TAM
Total Recoverable	Prep	3005A			163023	11/04/15 07:41	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 14:36	ASD	TAL TAM
Total/NA	Analysis	350.1		10	282218	11/05/15 16:54	JAT	TAL PEN
Total/NA	Prep	351.2			280732	10/27/15 15:30	KJR	TAL PEN
Total/NA	Analysis	351.2		2	281013	10/28/15 16:53	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162662	10/24/15 13:59	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281126	10/29/15 11:53	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162789	10/24/15 13:50	ELE	TAL TAM
Dissolved	Analysis	365.2		10	162791	10/24/15 13:55	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280734	10/27/15 15:32	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281128	10/29/15 11:55	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		1	281412	10/31/15 14:14	NAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	282408	11/06/15 17:16	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		5	281222	10/29/15 19:04	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281901	11/04/15 10:36	JAT	TAL PEN

Client Sample ID: WW6.5SW(10/23/2015)

Lab Sample ID: 660-70026-3

Date Collected: 10/23/15 12:25

Matrix: Water

Date Received: 10/24/15 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			163006	11/03/15 14:03	ASD	TAL TAM
Dissolved	Prep	3005A			163023	11/04/15 08:13	GAF	TAL TAM
Dissolved	Analysis	6010B		1	163037	11/04/15 15:09	ASD	TAL TAM
Total Recoverable	Prep	3005A			163023	11/04/15 07:41	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 14:40	ASD	TAL TAM
Total/NA	Analysis	350.1		1	282218	11/05/15 16:37	JAT	TAL PEN
Total/NA	Prep	351.2			280732	10/27/15 15:30	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281013	10/28/15 16:40	KJR	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW6.5SW(10/23/2015)

Lab Sample ID: 660-70026-3

Date Collected: 10/23/15 12:25

Matrix: Water

Date Received: 10/24/15 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	162662	10/24/15 14:01	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281126	10/29/15 11:54	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162789	10/24/15 13:50	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162791	10/24/15 13:55	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280734	10/27/15 15:32	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281128	10/29/15 11:56	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		1	281412	10/31/15 14:14	NAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	282408	11/06/15 17:16	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	281222	10/29/15 19:04	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281901	11/04/15 10:36	JAT	TAL PEN

Client Sample ID: WW6.5PW(10/23/2015)

Lab Sample ID: 660-70026-4

Date Collected: 10/23/15 12:25

Matrix: Water

Date Received: 10/24/15 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			163006	11/03/15 14:11	ASD	TAL TAM
Dissolved	Prep	3005A			163060	11/05/15 08:34	GAF	TAL TAM
Dissolved	Analysis	6010B		1	163084	11/05/15 14:25	ASD	TAL TAM
Total Recoverable	Prep	3005A			163023	11/04/15 07:41	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	163037	11/04/15 14:49	ASD	TAL TAM
Total/NA	Analysis	350.1		1	282218	11/05/15 16:38	JAT	TAL PEN
Total/NA	Prep	351.2			280732	10/27/15 15:30	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281013	10/28/15 16:41	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162662	10/24/15 14:02	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281126	10/29/15 11:57	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162789	10/24/15 13:50	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162791	10/24/15 13:55	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			280734	10/27/15 15:32	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281128	10/29/15 11:57	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		1	281412	10/31/15 14:14	NAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	282408	11/06/15 17:16	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	281222	10/29/15 19:04	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281901	11/04/15 10:36	JAT	TAL PEN

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW8.0SED(10/23/2015)

Lab Sample ID: 660-70026-5

Date Collected: 10/23/15 09:30

Matrix: Solid

Date Received: 10/24/15 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			281286	10/31/15 13:21	CLM	TAL PEN
Total/NA	Analysis	6010B		1	281870	11/03/15 20:16	GESP	TAL PEN
Soluble	Leach	DI Leach			281561	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:14	JAT	TAL PEN
Total/NA	Prep	351.2			280738	10/27/15 15:37	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281105	10/29/15 10:32	KJR	TAL PEN
Soluble	Leach	DI Leach			281558	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:40	JAT	TAL PEN
Soluble	Leach	DI Leach			280672	10/27/15 11:12	LSS	TAL PEN
Soluble	Analysis	354.1		1	280853	10/28/15 07:52	LSS	TAL PEN
Soluble	Leach	DI Leach			280671	10/27/15 11:11	LSS	TAL PEN
Soluble	Analysis	365.1		1	280782	10/27/15 17:57	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280741	10/27/15 15:39	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281158	10/29/15 14:31	KJR	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 19:05	NAB	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 19:12	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:40	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: WW7.5SED(10/23/2015)

Lab Sample ID: 660-70026-6

Date Collected: 10/23/15 10:05

Matrix: Solid

Date Received: 10/24/15 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			281286	10/31/15 13:21	CLM	TAL PEN
Total/NA	Analysis	6010B		1	281870	11/03/15 20:19	GESP	TAL PEN
Soluble	Leach	DI Leach			281561	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:16	JAT	TAL PEN
Total/NA	Prep	351.2			281198	10/29/15 16:40	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281374	10/30/15 16:37	KJR	TAL PEN
Soluble	Leach	DI Leach			281558	11/02/15 13:18	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:41	JAT	TAL PEN
Soluble	Leach	DI Leach			280672	10/27/15 11:12	LSS	TAL PEN
Soluble	Analysis	354.1		1	280853	10/28/15 07:52	LSS	TAL PEN
Soluble	Leach	DI Leach			280671	10/27/15 11:11	LSS	TAL PEN
Soluble	Analysis	365.1		1	280782	10/27/15 17:57	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			281199	10/29/15 16:43	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281339	10/30/15 13:53	KJR	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 19:05	NAB	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW7.5SED(10/23/2015)

Lab Sample ID: 660-70026-6

Date Collected: 10/23/15 10:05

Matrix: Solid

Date Received: 10/24/15 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 19:12	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:41	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: WW7.0SED(10/23/2015)

Lab Sample ID: 660-70026-7

Date Collected: 10/23/15 11:15

Matrix: Solid

Date Received: 10/24/15 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			281286	10/31/15 13:21	CLM	TAL PEN
Total/NA	Analysis	6010B		1	281870	11/03/15 20:22	GESP	TAL PEN
Soluble	Leach	DI Leach			281583	11/02/15 13:57	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:30	JAT	TAL PEN
Total/NA	Prep	351.2			280738	10/27/15 15:37	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281105	10/29/15 10:34	KJR	TAL PEN
Soluble	Leach	DI Leach			281568	11/02/15 13:57	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:50	JAT	TAL PEN
Soluble	Leach	DI Leach			280672	10/27/15 11:12	LSS	TAL PEN
Soluble	Analysis	354.1		1	280853	10/28/15 07:52	LSS	TAL PEN
Soluble	Leach	DI Leach			280671	10/27/15 11:11	LSS	TAL PEN
Soluble	Analysis	365.1		1	280782	10/27/15 18:00	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280741	10/27/15 15:39	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281158	10/29/15 14:34	KJR	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 19:05	NAB	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 19:12	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:50	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: WW6.5SED(10/23/2015)

Lab Sample ID: 660-70026-8

Date Collected: 10/23/15 11:40

Matrix: Solid

Date Received: 10/24/15 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			281286	10/31/15 13:21	CLM	TAL PEN
Total/NA	Analysis	6010B		1	281870	11/03/15 20:26	GESP	TAL PEN
Soluble	Leach	DI Leach			281583	11/02/15 13:57	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:33	JAT	TAL PEN
Total/NA	Prep	351.2			280738	10/27/15 15:37	KJR	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW6.5SED(10/23/2015)

Lab Sample ID: 660-70026-8

Date Collected: 10/23/15 11:40

Matrix: Solid

Date Received: 10/24/15 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	351.2		1	281105	10/29/15 10:35	KJR	TAL PEN
Soluble	Leach	DI Leach			281568	11/02/15 13:57	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:53	JAT	TAL PEN
Soluble	Leach	DI Leach			280672	10/27/15 11:12	LSS	TAL PEN
Soluble	Analysis	354.1		1	280853	10/28/15 07:53	LSS	TAL PEN
Soluble	Leach	DI Leach			280671	10/27/15 11:11	LSS	TAL PEN
Soluble	Analysis	365.1		1	280782	10/27/15 18:00	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280741	10/27/15 15:39	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281158	10/29/15 14:35	KJR	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 19:05	NAB	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 19:12	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:53	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: WW6.0SED(10/23/2015)

Lab Sample ID: 660-70026-9

Date Collected: 10/23/15 13:55

Matrix: Solid

Date Received: 10/24/15 06:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			281286	10/31/15 13:21	CLM	TAL PEN
Total/NA	Analysis	6010B		1	281870	11/03/15 20:39	GESP	TAL PEN
Soluble	Leach	DI Leach			281583	11/02/15 13:57	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:35	JAT	TAL PEN
Total/NA	Prep	351.2			280738	10/27/15 15:37	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281105	10/29/15 10:36	KJR	TAL PEN
Soluble	Leach	DI Leach			281568	11/02/15 13:57	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:54	JAT	TAL PEN
Soluble	Leach	DI Leach			280672	10/27/15 11:12	LSS	TAL PEN
Soluble	Analysis	354.1		1	280853	10/28/15 07:52	LSS	TAL PEN
Soluble	Leach	DI Leach			280671	10/27/15 11:11	LSS	TAL PEN
Soluble	Analysis	365.1		1	280782	10/27/15 17:57	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			280741	10/27/15 15:39	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281158	10/29/15 14:36	KJR	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 19:18	NAB	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 19:12	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:54	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW5.5 SED (10/26/2015)

Lab Sample ID: 660-70053-1

Date Collected: 10/26/15 10:15

Matrix: Solid

Date Received: 10/27/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			281286	10/31/15 13:21	CLM	TAL PEN
Total/NA	Analysis	6010B		1	281870	11/03/15 20:43	GESP	TAL PEN
Soluble	Leach	DI Leach			281583	11/02/15 13:57	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:36	JAT	TAL PEN
Total/NA	Prep	351.2			281006	10/28/15 17:51	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281362	10/30/15 15:02	KJR	TAL PEN
Soluble	Leach	DI Leach			281568	11/02/15 13:57	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:55	JAT	TAL PEN
Soluble	Leach	DI Leach			280924	10/28/15 13:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	281007	10/28/15 17:45	LSS	TAL PEN
Soluble	Leach	DI Leach			280925	10/28/15 13:05	LSS	TAL PEN
Soluble	Analysis	365.1		1	281008	10/28/15 17:44	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			281010	10/28/15 17:56	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281217	10/29/15 17:13	KJR	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 19:18	NAB	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 19:12	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:55	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: WW5.25 SED (10/26/2015)

Lab Sample ID: 660-70053-2

Date Collected: 10/26/15 11:40

Matrix: Solid

Date Received: 10/27/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			281286	10/31/15 13:21	CLM	TAL PEN
Total/NA	Analysis	6010B		1	281870	11/03/15 20:46	GESP	TAL PEN
Soluble	Leach	DI Leach			281583	11/02/15 13:57	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:37	JAT	TAL PEN
Total/NA	Prep	351.2			281006	10/28/15 17:51	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281362	10/30/15 15:03	KJR	TAL PEN
Soluble	Leach	DI Leach			281568	11/02/15 13:57	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:56	JAT	TAL PEN
Soluble	Leach	DI Leach			280924	10/28/15 13:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	281007	10/28/15 17:45	LSS	TAL PEN
Soluble	Leach	DI Leach			280925	10/28/15 13:05	LSS	TAL PEN
Soluble	Analysis	365.1		1	281008	10/28/15 17:44	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			281010	10/28/15 17:56	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281217	10/29/15 17:14	KJR	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 19:18	NAB	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW5.25 SED (10/26/2015)

Lab Sample ID: 660-70053-2

Date Collected: 10/26/15 11:40

Matrix: Solid

Date Received: 10/27/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 19:12	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:56	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: WW5.0 SED (10/26/2015)

Lab Sample ID: 660-70053-3

Date Collected: 10/26/15 13:40

Matrix: Solid

Date Received: 10/27/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			281286	10/31/15 13:21	CLM	TAL PEN
Total/NA	Analysis	6010B		1	281870	11/03/15 20:50	GESP	TAL PEN
Soluble	Leach	DI Leach			281583	11/02/15 13:57	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:38	JAT	TAL PEN
Total/NA	Prep	351.2			281006	10/28/15 17:51	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281362	10/30/15 15:05	KJR	TAL PEN
Soluble	Leach	DI Leach			281568	11/02/15 13:57	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 13:57	JAT	TAL PEN
Soluble	Leach	DI Leach			280924	10/28/15 13:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	281007	10/28/15 17:45	LSS	TAL PEN
Soluble	Leach	DI Leach			280925	10/28/15 13:05	LSS	TAL PEN
Soluble	Analysis	365.1		1	281008	10/28/15 17:44	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			281010	10/28/15 17:56	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281217	10/29/15 17:15	KJR	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282067	11/04/15 19:18	NAB	TAL PEN
Soluble	Leach	DI Leach			282060	11/04/15 11:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282068	11/04/15 19:12	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 13:57	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: WW.4.5 SED (10/26/2015)

Lab Sample ID: 660-70053-4

Date Collected: 10/26/15 14:10

Matrix: Solid

Date Received: 10/27/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			281286	10/31/15 13:21	CLM	TAL PEN
Total/NA	Analysis	6010B		1	281870	11/03/15 20:53	GESP	TAL PEN
Soluble	Leach	DI Leach			281583	11/02/15 13:57	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:41	JAT	TAL PEN
Total/NA	Prep	351.2			281006	10/28/15 17:51	KJR	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW.4.5 SED (10/26/2015)

Lab Sample ID: 660-70053-4

Date Collected: 10/26/15 14:10

Matrix: Solid

Date Received: 10/27/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	351.2		1	281362	10/30/15 15:06	KJR	TAL PEN
Soluble	Leach	DI Leach			281568	11/02/15 13:57	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 14:03	JAT	TAL PEN
Soluble	Leach	DI Leach			280924	10/28/15 13:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	281007	10/28/15 17:54	LSS	TAL PEN
Soluble	Leach	DI Leach			280925	10/28/15 13:05	LSS	TAL PEN
Soluble	Analysis	365.1		1	281008	10/28/15 17:44	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			281010	10/28/15 17:56	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281217	10/29/15 17:16	KJR	TAL PEN
Soluble	Leach	DI Leach			282409	11/06/15 10:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282408	11/06/15 16:39	NAB	TAL PEN
Soluble	Leach	DI Leach			282409	11/06/15 10:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282407	11/06/15 17:56	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 14:03	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: WW4.0 SED (10/26/2015)

Lab Sample ID: 660-70053-5

Date Collected: 10/26/15 15:00

Matrix: Solid

Date Received: 10/27/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			281286	10/31/15 13:21	CLM	TAL PEN
Total/NA	Analysis	6010B		1	281870	11/03/15 20:56	GESP	TAL PEN
Soluble	Leach	DI Leach			281583	11/02/15 13:57	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:42	JAT	TAL PEN
Total/NA	Prep	351.2			281006	10/28/15 17:51	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281362	10/30/15 15:09	KJR	TAL PEN
Soluble	Leach	DI Leach			281568	11/02/15 13:57	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 14:04	JAT	TAL PEN
Soluble	Leach	DI Leach			280924	10/28/15 13:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	281007	10/28/15 17:45	LSS	TAL PEN
Soluble	Leach	DI Leach			280925	10/28/15 13:05	LSS	TAL PEN
Soluble	Analysis	365.1		1	281008	10/28/15 17:44	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			281010	10/28/15 17:56	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281217	10/29/15 17:20	KJR	TAL PEN
Soluble	Leach	DI Leach			282409	11/06/15 10:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282408	11/06/15 16:39	NAB	TAL PEN
Soluble	Leach	DI Leach			282409	11/06/15 10:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282407	11/06/15 17:56	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 14:04	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW3.5 SED (10/26/2015)

Lab Sample ID: 660-70053-6

Date Collected: 10/26/15 15:45

Matrix: Solid

Date Received: 10/27/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			281286	10/31/15 13:21	CLM	TAL PEN
Total/NA	Analysis	6010B		1	281870	11/03/15 21:00	GESP	TAL PEN
Soluble	Leach	DI Leach			281583	11/02/15 13:57	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:43	JAT	TAL PEN
Total/NA	Prep	351.2			281006	10/28/15 17:51	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281362	10/30/15 15:10	KJR	TAL PEN
Soluble	Leach	DI Leach			281568	11/02/15 13:57	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 14:05	JAT	TAL PEN
Soluble	Leach	DI Leach			280924	10/28/15 13:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	281007	10/28/15 17:45	LSS	TAL PEN
Soluble	Leach	DI Leach			280925	10/28/15 13:05	LSS	TAL PEN
Soluble	Analysis	365.1		1	281008	10/28/15 17:44	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			281010	10/28/15 17:56	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281217	10/29/15 17:21	KJR	TAL PEN
Soluble	Leach	DI Leach			282409	11/06/15 10:00	NAB	TAL PEN
Soluble	Analysis	9038		1	282408	11/06/15 16:39	NAB	TAL PEN
Soluble	Leach	DI Leach			282409	11/06/15 10:00	NAB	TAL PEN
Soluble	Analysis	9251		1	282407	11/06/15 17:56	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281220	10/29/15 18:31	LEC	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 14:05	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: WW5.5 SW (10/26/2015)

Lab Sample ID: 660-70053-7

Date Collected: 10/26/15 10:40

Matrix: Water

Date Received: 10/27/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162907	10/30/15 16:32	ASD	TAL TAM
Dissolved	Prep	3005A			162908	10/30/15 16:43	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163065	11/05/15 09:36	GAF	TAL TAM
Total Recoverable	Prep	3005A			162908	10/30/15 16:40	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163065	11/05/15 08:47	GAF	TAL TAM
Total/NA	Analysis	350.1		1	282218	11/05/15 16:39	JAT	TAL PEN
Total/NA	Prep	351.2			280976	10/28/15 16:45	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281362	10/30/15 15:27	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162750	10/27/15 15:18	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281126	10/29/15 11:58	JAT	TAL PEN
Dissolved	Analysis	365.2		1	162754	10/27/15 16:30	SC1	TAL TAM
Dissolved	Filtration	FILTRATION			162753	10/27/15 16:30	SC1	TAL TAM
Total/NA	Prep	365.2/365.3/365			280978	10/28/15 16:47	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281217	10/29/15 15:27	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		1	281412	10/31/15 14:14	NAB	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW5.5 SW (10/26/2015)

Lab Sample ID: 660-70053-7

Date Collected: 10/26/15 10:40

Matrix: Water

Date Received: 10/27/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 SO4 E		1	282408	11/06/15 16:30	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	281222	10/29/15 19:04	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281901	11/04/15 10:36	JAT	TAL PEN

Client Sample ID: WW5.5 PW (10/26/2015)

Lab Sample ID: 660-70053-8

Date Collected: 10/26/15 10:40

Matrix: Water

Date Received: 10/27/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162907	10/30/15 16:32	ASD	TAL TAM
Dissolved	Prep	3005A			162908	10/30/15 16:43	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163065	11/05/15 09:39	GAF	TAL TAM
Total Recoverable	Prep	3005A			162908	10/30/15 16:40	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163065	11/05/15 08:59	GAF	TAL TAM
Total/NA	Analysis	350.1		1	282218	11/05/15 16:40	JAT	TAL PEN
Total/NA	Prep	351.2			280976	10/28/15 16:45	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281362	10/30/15 15:28	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162750	10/27/15 15:22	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281126	10/29/15 11:59	JAT	TAL PEN
Dissolved	Analysis	365.2		1	162754	10/27/15 16:30	SC1	TAL TAM
Dissolved	Filtration	FILTRATION			162753	10/27/15 16:30	SC1	TAL TAM
Total/NA	Prep	365.2/365.3/365			280978	10/28/15 16:47	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281217	10/29/15 15:28	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		1	281412	10/31/15 14:19	NAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	282408	11/06/15 16:30	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	281222	10/29/15 19:04	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281901	11/04/15 10:36	JAT	TAL PEN

Client Sample ID: WW5.25 SW (10/26/2015)

Lab Sample ID: 660-70053-9

Date Collected: 10/26/15 11:50

Matrix: Water

Date Received: 10/27/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162907	10/30/15 16:32	ASD	TAL TAM
Dissolved	Prep	3005A			162908	10/30/15 16:43	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163065	11/05/15 09:43	GAF	TAL TAM
Total Recoverable	Prep	3005A			162908	10/30/15 16:40	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163065	11/05/15 09:02	GAF	TAL TAM
Total/NA	Analysis	350.1		1	282218	11/05/15 16:41	JAT	TAL PEN
Total/NA	Prep	351.2			280976	10/28/15 16:45	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281362	10/30/15 15:30	KJR	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW5.25 SW (10/26/2015)

Lab Sample ID: 660-70053-9

Date Collected: 10/26/15 11:50

Matrix: Water

Date Received: 10/27/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	162750	10/27/15 15:23	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281126	10/29/15 12:05	JAT	TAL PEN
Dissolved	Analysis	365.2		1	162754	10/27/15 16:30	SC1	TAL TAM
Dissolved	Filtration	FILTRATION			162753	10/27/15 16:30	SC1	TAL TAM
Total/NA	Prep	365.2/365.3/365			280978	10/28/15 16:47	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281217	10/29/15 15:29	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		1	281412	10/31/15 14:19	NAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	282408	11/06/15 16:30	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	281222	10/29/15 19:04	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281901	11/04/15 10:36	JAT	TAL PEN

Client Sample ID: WW5.25 PW (10/26/2015)

Lab Sample ID: 660-70053-10

Date Collected: 10/26/15 11:50

Matrix: Water

Date Received: 10/27/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162907	10/30/15 16:32	ASD	TAL TAM
Dissolved	Prep	3005A			162908	10/30/15 16:43	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163065	11/05/15 09:46	GAF	TAL TAM
Total Recoverable	Prep	3005A			162908	10/30/15 16:40	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163065	11/05/15 09:06	GAF	TAL TAM
Total/NA	Analysis	350.1		1	282218	11/05/15 16:42	JAT	TAL PEN
Total/NA	Prep	351.2			280976	10/28/15 16:45	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281362	10/30/15 15:31	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162750	10/27/15 15:24	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281126	10/29/15 12:06	JAT	TAL PEN
Dissolved	Analysis	365.2		1	162754	10/27/15 16:30	SC1	TAL TAM
Dissolved	Filtration	FILTRATION			162753	10/27/15 16:30	SC1	TAL TAM
Total/NA	Prep	365.2/365.3/365			280978	10/28/15 16:47	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281217	10/29/15 15:30	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		1	281412	10/31/15 14:19	NAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	282408	11/06/15 16:30	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	281222	10/29/15 19:04	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281901	11/04/15 10:36	JAT	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW4.5 SW (10/26/2015)

Lab Sample ID: 660-70053-11

Date Collected: 10/26/15 14:25

Matrix: Water

Date Received: 10/27/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162907	10/30/15 16:32	ASD	TAL TAM
Dissolved	Prep	3005A			162908	10/30/15 16:43	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163065	11/05/15 09:56	GAF	TAL TAM
Total Recoverable	Prep	3005A			162908	10/30/15 16:40	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163065	11/05/15 09:19	GAF	TAL TAM
Total/NA	Analysis	350.1		1	282233	11/05/15 18:25	JAT	TAL PEN
Total/NA	Prep	351.2			280976	10/28/15 16:45	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281362	10/30/15 15:34	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162750	10/27/15 15:34	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281126	10/29/15 12:07	JAT	TAL PEN
Dissolved	Analysis	365.2		1	162754	10/27/15 16:30	SC1	TAL TAM
Dissolved	Filtration	FILTRATION			162753	10/27/15 16:30	SC1	TAL TAM
Total/NA	Prep	365.2/365.3/365			280978	10/28/15 16:47	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281217	10/29/15 16:45	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		1	282407	11/06/15 17:56	NAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	282408	11/06/15 16:30	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	281222	10/29/15 19:04	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281901	11/04/15 10:36	JAT	TAL PEN

Client Sample ID: WW4.5 PW (10/26/2015)

Lab Sample ID: 660-70053-12

Date Collected: 10/26/15 14:25

Matrix: Water

Date Received: 10/27/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162907	10/30/15 16:32	ASD	TAL TAM
Dissolved	Prep	3005A			162908	10/30/15 16:43	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163065	11/05/15 09:59	GAF	TAL TAM
Total Recoverable	Prep	3005A			162908	10/30/15 16:40	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163065	11/05/15 09:22	GAF	TAL TAM
Total/NA	Analysis	350.1		1	282233	11/05/15 18:28	JAT	TAL PEN
Total/NA	Prep	351.2			280976	10/28/15 16:45	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281362	10/30/15 15:35	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162750	10/27/15 15:35	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281126	10/29/15 12:08	JAT	TAL PEN
Dissolved	Analysis	365.2		1	162754	10/27/15 16:30	SC1	TAL TAM
Dissolved	Filtration	FILTRATION			162753	10/27/15 16:30	SC1	TAL TAM
Total/NA	Prep	365.2/365.3/365			280978	10/28/15 16:47	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281217	10/29/15 16:46	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		1	282407	11/06/15 17:56	NAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	282408	11/06/15 16:30	NAB	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW4.5 PW (10/26/2015)

Lab Sample ID: 660-70053-12

Date Collected: 10/26/15 14:25

Matrix: Water

Date Received: 10/27/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM3500_FE_D		1	281222	10/29/15 19:04	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281901	11/04/15 10:36	JAT	TAL PEN

Client Sample ID: WW3.5 SW (10/26/2015)

Lab Sample ID: 660-70053-13

Date Collected: 10/26/15 16:10

Matrix: Water

Date Received: 10/27/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162907	10/30/15 16:36	ASD	TAL TAM
Dissolved	Prep	3005A			162908	10/30/15 16:43	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163065	11/05/15 10:02	GAF	TAL TAM
Total Recoverable	Prep	3005A			162908	10/30/15 16:40	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163065	11/05/15 09:26	GAF	TAL TAM
Total/NA	Analysis	350.1		1	282233	11/05/15 18:23	JAT	TAL PEN
Total/NA	Prep	351.2			280976	10/28/15 16:45	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281362	10/30/15 15:36	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162750	10/27/15 15:36	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281126	10/29/15 12:09	JAT	TAL PEN
Dissolved	Analysis	365.2		1	162754	10/27/15 16:30	SC1	TAL TAM
Dissolved	Filtration	FILTRATION			162753	10/27/15 16:30	SC1	TAL TAM
Total/NA	Prep	365.2/365.3/365			280978	10/28/15 16:47	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281217	10/29/15 16:48	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		1	282407	11/06/15 17:56	NAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	282408	11/06/15 16:30	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	281222	10/29/15 19:04	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281901	11/04/15 10:36	JAT	TAL PEN

Client Sample ID: WW3.5 PW (10/26/2015)

Lab Sample ID: 660-70053-14

Date Collected: 10/26/15 16:10

Matrix: Water

Date Received: 10/27/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			162907	10/30/15 16:36	ASD	TAL TAM
Dissolved	Prep	3005A			162908	10/30/15 16:43	ASD	TAL TAM
Dissolved	Analysis	6010B		1	163065	11/05/15 10:06	GAF	TAL TAM
Total Recoverable	Prep	3005A			162908	10/30/15 16:40	ASD	TAL TAM
Total Recoverable	Analysis	6010B		1	163065	11/05/15 09:29	GAF	TAL TAM
Total/NA	Analysis	350.1		1	282233	11/05/15 18:24	JAT	TAL PEN
Total/NA	Prep	351.2			280976	10/28/15 16:45	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281362	10/30/15 15:37	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162750	10/27/15 15:38	ELE	TAL TAM

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW3.5 PW (10/26/2015)

Lab Sample ID: 660-70053-14

Date Collected: 10/26/15 16:10

Matrix: Water

Date Received: 10/27/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	281126	10/29/15 12:10	JAT	TAL PEN
Dissolved	Analysis	365.2		1	162754	10/27/15 16:30	SC1	TAL TAM
Dissolved	Filtration	FILTRATION			162753	10/27/15 16:30	SC1	TAL TAM
Total/NA	Prep	365.2/365.3/365			280978	10/28/15 16:47	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281217	10/29/15 16:49	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163041	11/04/15 13:57	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		1	282407	11/06/15 17:56	NAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	282408	11/06/15 16:30	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	281222	10/29/15 19:04	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281901	11/04/15 10:36	JAT	TAL PEN

Client Sample ID: WW2.5 SW (10/27/2015)

Lab Sample ID: 660-70082-1

Date Collected: 10/27/15 10:35

Matrix: Water

Date Received: 10/28/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			163078	11/05/15 13:13	GAF	TAL TAM
Dissolved	Prep	3005A			163079	11/05/15 13:15	GAF	TAL TAM
Dissolved	Analysis	6010B		1	163084	11/05/15 19:38	ASD	TAL TAM
Total Recoverable	Prep	3005A			163079	11/05/15 13:15	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	163084	11/05/15 19:15	ASD	TAL TAM
Total/NA	Analysis	350.1		1	282186	11/05/15 13:36	JAT	TAL PEN
Total/NA	Prep	351.2			281201	10/29/15 16:45	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281374	10/30/15 16:13	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162902	10/28/15 14:35	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281810	11/03/15 18:51	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162868	10/29/15 09:30	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162869	10/29/15 09:35	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			281202	10/29/15 16:49	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281339	10/30/15 13:32	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163107	11/06/15 09:42	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		1	282689	11/09/15 18:17	NAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	282651	11/09/15 14:06	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	281222	10/29/15 19:04	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	282656	11/09/15 18:34	JAT	TAL PEN

Client Sample ID: WW2.5 PW (10/27/2015)

Lab Sample ID: 660-70082-2

Date Collected: 10/27/15 10:35

Matrix: Water

Date Received: 10/28/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			163078	11/05/15 13:13	GAF	TAL TAM

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW2.5 PW (10/27/2015)

Lab Sample ID: 660-70082-2

Date Collected: 10/27/15 10:35

Matrix: Water

Date Received: 10/28/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			163079	11/05/15 13:15	GAF	TAL TAM
Dissolved	Analysis	6010B		1	163084	11/05/15 19:41	ASD	TAL TAM
Total Recoverable	Prep	3005A			163079	11/05/15 13:15	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	163084	11/05/15 19:18	ASD	TAL TAM
Total/NA	Analysis	350.1		1	282186	11/05/15 13:37	JAT	TAL PEN
Total/NA	Prep	351.2			281201	10/29/15 16:45	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281374	10/30/15 16:14	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162902	10/28/15 14:35	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281810	11/03/15 18:52	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162868	10/29/15 09:30	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162869	10/29/15 09:35	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			281202	10/29/15 16:49	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281339	10/30/15 13:33	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163107	11/06/15 09:42	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		1	282689	11/09/15 18:17	NAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	282651	11/09/15 14:06	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	281222	10/29/15 19:04	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	282656	11/09/15 18:34	JAT	TAL PEN

Client Sample ID: WW1.5 SW (10/27/2015)

Lab Sample ID: 660-70082-3

Date Collected: 10/27/15 12:10

Matrix: Water

Date Received: 10/28/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			163078	11/05/15 13:13	GAF	TAL TAM
Dissolved	Prep	3005A			163079	11/05/15 13:15	GAF	TAL TAM
Dissolved	Analysis	6010B		1	163084	11/05/15 19:45	ASD	TAL TAM
Total Recoverable	Prep	3005A			163079	11/05/15 13:15	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	163084	11/05/15 19:21	ASD	TAL TAM
Total/NA	Analysis	350.1		1	282186	11/05/15 13:38	JAT	TAL PEN
Total/NA	Prep	351.2			281201	10/29/15 16:45	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281374	10/30/15 16:15	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162902	10/28/15 14:35	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281810	11/03/15 18:53	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162868	10/29/15 09:30	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162869	10/29/15 09:35	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			281202	10/29/15 16:49	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281339	10/30/15 13:34	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163107	11/06/15 09:42	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		1	282689	11/09/15 18:17	NAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	282651	11/09/15 14:06	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	281222	10/29/15 19:04	JAT	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW1.5 SW (10/27/2015)

Lab Sample ID: 660-70082-3

Date Collected: 10/27/15 12:10

Matrix: Water

Date Received: 10/28/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total Nitrogen		1	282656	11/09/15 18:34	JAT	TAL PEN

Client Sample ID: WW1.5 PW (10/27/2015)

Lab Sample ID: 660-70082-4

Date Collected: 10/27/15 12:10

Matrix: Water

Date Received: 10/28/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			163078	11/05/15 13:13	GAF	TAL TAM
Dissolved	Prep	3005A			163079	11/05/15 13:15	GAF	TAL TAM
Dissolved	Analysis	6010B		1	163084	11/05/15 19:48	ASD	TAL TAM
Total Recoverable	Prep	3005A			163079	11/05/15 13:15	GAF	TAL TAM
Total Recoverable	Analysis	6010B		1	163084	11/05/15 19:31	ASD	TAL TAM
Total/NA	Analysis	350.1		1	282186	11/05/15 13:39	JAT	TAL PEN
Total/NA	Prep	351.2			281201	10/29/15 16:45	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281374	10/30/15 16:16	KJR	TAL PEN
Total/NA	Analysis	353.2		1	162902	10/28/15 14:35	ELE	TAL TAM
Total/NA	Analysis	353.2		1	281810	11/03/15 18:54	JAT	TAL PEN
Dissolved	Filtration	FILTRATION			162868	10/29/15 09:30	ELE	TAL TAM
Dissolved	Analysis	365.2		1	162869	10/29/15 09:35	ELE	TAL TAM
Total/NA	Prep	365.2/365.3/365			281202	10/29/15 16:49	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281339	10/30/15 13:35	KJR	TAL PEN
Total/NA	Analysis	Nitrate by calc		1	163107	11/06/15 09:42	SR1	TAL TAM
Total/NA	Analysis	SM 4500 Cl- E		1	282689	11/09/15 18:17	NAB	TAL PEN
Total/NA	Analysis	SM 4500 SO4 E		1	282651	11/09/15 14:06	NAB	TAL PEN
Total/NA	Analysis	SM3500_FE_D		1	281222	10/29/15 19:09	JAT	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	282656	11/09/15 18:34	JAT	TAL PEN

Client Sample ID: WW3.0 SED (10/27/2015)

Lab Sample ID: 660-70082-5

Date Collected: 10/27/15 09:45

Matrix: Solid

Date Received: 10/28/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			281398	10/31/15 13:21	CLM	TAL PEN
Total/NA	Analysis	6010B		1	281870	11/03/15 21:50	GESP	TAL PEN
Soluble	Leach	DI Leach			281583	11/02/15 13:57	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:45	JAT	TAL PEN
Total/NA	Prep	351.2			281198	10/29/15 16:40	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281374	10/30/15 16:29	KJR	TAL PEN
Soluble	Leach	DI Leach			281568	11/02/15 13:57	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 14:06	JAT	TAL PEN
Soluble	Leach	DI Leach			281122	10/29/15 12:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	281250	10/30/15 08:10	LSS	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW3.0 SED (10/27/2015)

Lab Sample ID: 660-70082-5

Date Collected: 10/27/15 09:45

Matrix: Solid

Date Received: 10/28/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			281123	10/29/15 12:05	LSS	TAL PEN
Soluble	Analysis	365.1		1	281251	10/30/15 08:18	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			281199	10/29/15 16:43	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281339	10/30/15 13:45	KJR	TAL PEN
Soluble	Leach	DI Leach			282655	11/09/15 18:11	NAB	TAL PEN
Soluble	Analysis	9038		1	282761	11/10/15 10:08	NAB	TAL PEN
Soluble	Leach	DI Leach			282655	11/09/15 18:11	NAB	TAL PEN
Soluble	Analysis	9251		1	282762	11/10/15 10:16	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281702	11/03/15 09:33	TMP	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 14:06	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: WW2.5 SED (10/27/2015)

Lab Sample ID: 660-70082-6

Date Collected: 10/27/15 10:15

Matrix: Solid

Date Received: 10/28/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			281398	10/31/15 13:21	CLM	TAL PEN
Total/NA	Analysis	6010B		1	281870	11/03/15 21:53	GESP	TAL PEN
Soluble	Leach	DI Leach			281583	11/02/15 13:57	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:46	JAT	TAL PEN
Total/NA	Prep	351.2			281198	10/29/15 16:40	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281374	10/30/15 16:32	KJR	TAL PEN
Soluble	Leach	DI Leach			281568	11/02/15 13:57	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 14:07	JAT	TAL PEN
Soluble	Leach	DI Leach			281122	10/29/15 12:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	281250	10/30/15 08:10	LSS	TAL PEN
Soluble	Leach	DI Leach			281123	10/29/15 12:05	LSS	TAL PEN
Soluble	Analysis	365.1		1	281251	10/30/15 08:18	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			281199	10/29/15 16:43	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281339	10/30/15 13:48	KJR	TAL PEN
Soluble	Leach	DI Leach			282655	11/09/15 18:11	NAB	TAL PEN
Soluble	Analysis	9038		1	282761	11/10/15 10:08	NAB	TAL PEN
Soluble	Leach	DI Leach			282655	11/09/15 18:11	NAB	TAL PEN
Soluble	Analysis	9251		1	282762	11/10/15 10:16	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281702	11/03/15 09:33	TMP	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 14:07	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW2.0 SED (10/27/2015)

Lab Sample ID: 660-70082-7

Date Collected: 10/27/15 11:15

Matrix: Solid

Date Received: 10/28/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			281398	10/31/15 13:21	CLM	TAL PEN
Total/NA	Analysis	6010B		1	281870	11/03/15 22:07	GESP	TAL PEN
Soluble	Leach	DI Leach			281583	11/02/15 14:30	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:49	JAT	TAL PEN
Total/NA	Prep	351.2			281198	10/29/15 16:40	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281374	10/30/15 16:34	KJR	TAL PEN
Soluble	Leach	DI Leach			281568	11/02/15 14:30	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 14:10	JAT	TAL PEN
Soluble	Leach	DI Leach			281122	10/29/15 12:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	281250	10/30/15 08:10	LSS	TAL PEN
Soluble	Leach	DI Leach			281123	10/29/15 12:05	LSS	TAL PEN
Soluble	Analysis	365.1		1	281251	10/30/15 08:18	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			281199	10/29/15 16:43	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281339	10/30/15 13:49	KJR	TAL PEN
Soluble	Leach	DI Leach			282655	11/09/15 18:11	NAB	TAL PEN
Soluble	Analysis	9038		1	282761	11/10/15 10:08	NAB	TAL PEN
Soluble	Leach	DI Leach			282655	11/09/15 18:11	NAB	TAL PEN
Soluble	Analysis	9251		1	282762	11/10/15 10:16	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281702	11/03/15 09:33	TMP	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 14:10	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: WW1.5 SED (10/27/2015)

Lab Sample ID: 660-70082-8

Date Collected: 10/27/15 11:40

Matrix: Solid

Date Received: 10/28/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			281398	10/31/15 13:21	CLM	TAL PEN
Total/NA	Analysis	6010B		1	281870	11/03/15 22:10	GESP	TAL PEN
Soluble	Leach	DI Leach			281583	11/02/15 14:30	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:50	JAT	TAL PEN
Total/NA	Prep	351.2			281198	10/29/15 16:40	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281374	10/30/15 16:35	KJR	TAL PEN
Soluble	Leach	DI Leach			281568	11/02/15 14:30	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 14:11	JAT	TAL PEN
Soluble	Leach	DI Leach			281122	10/29/15 12:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	281250	10/30/15 08:10	LSS	TAL PEN
Soluble	Leach	DI Leach			281123	10/29/15 12:05	LSS	TAL PEN
Soluble	Analysis	365.1		1	281251	10/30/15 08:47	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			281199	10/29/15 16:43	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281339	10/30/15 13:51	KJR	TAL PEN
Soluble	Leach	DI Leach			282655	11/09/15 18:11	NAB	TAL PEN
Soluble	Analysis	9038		1	282761	11/10/15 10:09	NAB	TAL PEN

TestAmerica Tampa

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Client Sample ID: WW1.5 SED (10/27/2015)

Lab Sample ID: 660-70082-8

Date Collected: 10/27/15 11:40

Matrix: Solid

Date Received: 10/28/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			282655	11/09/15 18:11	NAB	TAL PEN
Soluble	Analysis	9251		1	282762	11/10/15 10:16	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	281702	11/03/15 09:33	TMP	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 14:11	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Client Sample ID: WW1.0 SED (10/27/2015)

Lab Sample ID: 660-70082-9

Date Collected: 10/27/15 12:50

Matrix: Solid

Date Received: 10/28/15 06:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			281398	10/31/15 13:21	CLM	TAL PEN
Total/NA	Analysis	6010B		1	281870	11/03/15 22:14	GESP	TAL PEN
Soluble	Leach	DI Leach			281583	11/02/15 14:30	JAT	TAL PEN
Soluble	Analysis	350.1		1	282015	11/04/15 19:51	JAT	TAL PEN
Total/NA	Prep	351.2			281198	10/29/15 16:40	KJR	TAL PEN
Total/NA	Analysis	351.2		1	281374	10/30/15 16:36	KJR	TAL PEN
Soluble	Leach	DI Leach			281568	11/02/15 14:30	JAT	TAL PEN
Soluble	Analysis	353.2		1	281762	11/03/15 14:12	JAT	TAL PEN
Soluble	Leach	DI Leach			281122	10/29/15 12:00	LSS	TAL PEN
Soluble	Analysis	354.1		1	281250	10/30/15 08:10	LSS	TAL PEN
Soluble	Leach	DI Leach			281123	10/29/15 12:05	LSS	TAL PEN
Soluble	Analysis	365.1		1	281251	10/30/15 08:18	LSS	TAL PEN
Total/NA	Prep	365.2/365.3/365			281199	10/29/15 16:43	KJR	TAL PEN
Total/NA	Analysis	365.4		1	281339	10/30/15 13:52	KJR	TAL PEN
Soluble	Leach	DI Leach			282655	11/09/15 18:11	NAB	TAL PEN
Soluble	Analysis	9038		1	282761	11/10/15 10:09	NAB	TAL PEN
Soluble	Leach	DI Leach			282655	11/09/15 18:11	NAB	TAL PEN
Soluble	Analysis	9251		1	282762	11/10/15 10:16	NAB	TAL PEN
Total/NA	Analysis	Moisture		1	282327	11/06/15 14:33	SCA	TAL PEN
Soluble	Analysis	Nitrate by calc		1	282292	11/03/15 14:12	JMH	TAL PEN
Total/NA	Analysis	Total Nitrogen		1	281917	11/04/15 11:52	JAT	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
 TAL TAL = TestAmerica Tallahassee, 2846 Industrial Plaza Drive, Tallahassee, FL 32301, TEL (850)878-3994
 TAL TAM = TestAmerica Tampa, 6712 Benjamin Road, Suite 100, Tampa, FL 33634, TEL (813)885-7427

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Laboratory: TestAmerica Tampa

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Florida	NELAP	4	E84282	06-30-16

Laboratory: TestAmerica Pensacola

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	40150	11-30-15 *
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-16
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Illinois	NELAP	5	200041	10-09-16
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	01-31-16 *
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-15
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-16
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	06-30-16
North Carolina (WW/SW)	State Program	4	314	12-31-15
Oklahoma	State Program	6	9810	08-31-16
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15
South Carolina	State Program	4	96026	06-30-16
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-15-9	09-30-16
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

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	06-30-16
Georgia	State Program	4		06-30-16
Louisiana	NELAP	6	30663	06-30-16
Texas	NELAP	6	T104704459-15-8	03-31-16
USDA	Federal		P330-08-00158	10-14-17

* Certification renewal pending - certification considered valid.

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: SWFWMD Coastal Rivers

TestAmerica Job ID: 660-68566-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL TAM
6010B	Metals (ICP)	SW846	TAL PEN
350.1	Nitrogen, Ammonia	MCAWW	TAL PEN
351.2	Nitrogen, Total Kjeldahl	MCAWW	TAL PEN
353.2	Nitrogen, Nitrite	MCAWW	TAL TAM
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL PEN
354.1	Nitrogen, Nitrite	MCAWW	TAL PEN
365.1	Phosphorus, Ortho	EPA	TAL PEN
365.1	Phosphorus, Total	EPA	TAL TAL
365.2	Phosphorus, Orthophosphate	MCAWW	TAL TAM
365.4	Phosphorus, Total	EPA	TAL PEN
9038	Sulfate, Turbidimetric	SW846	TAL PEN
9251	Chloride	SW846	TAL PEN
Moisture	Percent Moisture	EPA	TAL PEN
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	TAL TAM
Nitrate by calc	Nitrogen, Nitrate	SM	TAL PEN
SM 4500 Cl- E	Chloride, Total	SM	TAL PEN
SM 4500 SO4 E	Sulfate, Total	SM	TAL PEN
SM3500_FE_D	Ferrous Iron	SM20	TAL PEN
Total Nitrogen	Nitrogen, Total	EPA	TAL PEN

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.
- SM = "Standard Methods For The Examination Of Water And Wastewater",
- SM20 = "Standard Methods For The Examination Of Water And Wastewater", 20th Edition."
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

- TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
- 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
6712 Benjamin Road Suite 100
Tampa, FL 33634
Phone (813) 885-7427 Fax (813) 885-7049

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Client Contact: Ms. KT Moran	Company: ARCADIS U.S., Inc.	Address: 14025 Riveredge Drive Suite 600 City: Tampa State Zip: FL, 33637 Phone: 813-334-9068 (Tel) Email: kt.moran@arcadis-us.com Project Name: SWFWMD Coastal Rivers Site: SSWM#:	Sampler: Bill Mathias	Lab P#: Robertson, Nancy	Carrier Tracking Note(s)	COC No: 660-64000-20571.1
Due Date Requested:		14025 Riveredge Drive Suite 600			Phone: 813-285-1322	Email: nancy.robertson@testamericac.com		Page: 1 of 1
TAT Requested (days):		Tampa			Analysis Requested			
PO #:		06552004.D003			<input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Perform MS/MSD (Yes or No)			
WO #:					350.1, 351.2 SM4500_CI_E, SM4500_SO4_E 365.4 - Phosphorus, Total 3500_FE_D - Ferrous Iron 363.2_Pres - Nitrate Nitrite as N 365.2_Ortho - Orthophosphate 6010B - Dissolved Cu,Fe,Mn,Mg,K lab to filter 6010B - Total Cu,Fe,Mn,Mg,K 350.1 - Ammonia (as N) 6010B - Cu,Fe,Mn,Mg,K 351.2, 354.1, 365.1 Ortho, 365.4, 9038, 9251, Nitrogen, Total			
Project #:		66009055			<input checked="" type="checkbox"/> Total Number of containers			
SSOM#:					Special Instructions/Note: 660-68566 Chain of Custody  Loc: 660 68566			
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waterfall, B=biomass, A=Air)	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ammonia H - Acetic Acid I - Ice J - DI Water K - EDTA L - BDA Other:		
CE T10 S3 S10 (2015 Aug 12)		8-12-2015	1326	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CE T10 S3 P10 (2015 Aug 12)		8-12-2015	1500	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CE T10 S3 SED 0 - R (2015 Aug 12)		8-12-2015	1600	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Possible Hazard Identification		<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological <input type="checkbox"/> Empty Kit Relinquished by: <i>KT Moran</i> Date/Time: <i>8-13-15 @ 10:00</i>						
Deliverable Requested: I, II, III, IV, Other (Specify)		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Special Instructions/QC Requirements:						
Relinquished by: <i>KT Moran</i>		Date/Time: <i>8-13-15 @ 10:00</i>	Company: <i>ARCADIS</i>		Received by: <i>KT Moran</i>			Date/Time: <i>8-13-15 @ 06:00</i>
Relinquished by: <i>KT Moran</i>		Date/Time: <i>8-13-15 @ 06:45</i>	Company: <i>TR 7094</i>		Received by: <i>JMK</i>			Date/Time: <i>08/13/15 0645</i>
Custody Seal In tact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Method of Shipment: <i>Carrier</i> <i>1.6/2.1°C @ 660-68566</i>		

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

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information
 Client Contact: **Ms. KT Moran**
 Company: **ARCADIS U.S., Inc.**
 Address: **14025 Riveredge Drive Suite 600**
 City: **Tampa**
 State, Zip: **FL 33637**
 Phone: **813-334-9068(Tel)**
 Email: **K.Moran@arcadis-us.com**
 Project Name: **SWFWMD Coastal Rivers**
 Site: **SSOW#:**

Sampler: **RLK MATRIAS**
 Job PM: **Robertson, Nancy**
 Phone: **813-285-1322**
 E-Mail: **nancy.robertson@testamericainc.com**
 Due Date Requested:
 TAT Requested (day/s):

Field Filtered Sample (Yes or No):
 Perform MS/MSD (Yes or No):
 350.1, 351.2
 SM4500_CL_E, SM4500_SO4_E
 365.4 - Phosphorus, Total
 3500_FE_D - Ferrous Iron
 365.2_Pres - Nitrate Nitrite as N
 365.2_Ortho - Orthophosphate
 6010B - Dissolved Cu,Fe,Mn,Mg,K lab to filter
 6010B - Total Cu,Fe,Mn,Mg,K
 350.1 - Ammonia (as N)
 6010B - Cu,Fe,Mn,Mg,K
 351.2, 354.1, 365.1_Ortho, 365.4, 9038, 9261, Nitrogen, Total

Analysis Requested
 Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 M - Hexane
 N - None
 O - AsHAc2
 P - Na2OAS
 Q - Na2S2O3
 R - Na2S2O8
 S - H2SO4
 T - TSP Dodecylsulfate
 U - Acetone
 V - MCAA
 W - Br-4.5
 Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=other)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Preservation Codes
WW T1053 SW (2015 Aug 13)	8-13-2015	1130	G	Water	N	X	X		
WW T1053 PW (2015 Aug 13)	8-13-2015	1100	G	Water	N	X	X		
WW T1053 SCD 0-B (2015 Aug 13)	8-13-2015	0955	G	Water Solid	N	X	X		



Loc: 650
 68601

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

Empty Kit Relinquished by: **RLK Moran**
 Date/Time: **07-30-15** Time: **1630**
 Method of Shipment: **Common**

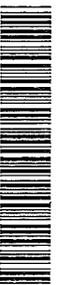
Relinquished by: **RLK Moran**
 Date/Time: **8-14-2015 @ 0515**
 Company: **ARCADIS**

Relinquished by: **RLK Moran**
 Date/Time: **8-14-2015 @ 0618**
 Company: **TA TPA**

Relinquished by: **RLK Moran**
 Date/Time: **8-14-2015 @ 0618**
 Company: **TA TPA**
 Custody Seals Intact: Yes No
 Custody Seal No.:
 Cooler Temperature(s) °C and Other Remarks: **68-68601 1:212.3 °C**

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

Chain of Custody Record



TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)

Client Contact: **TestAmerica Laboratories, Inc.**
 Shipping/Receiving

Lab P/N: **Bechtold, Chad**
 E-Mail: **chad.bechtold@testamericainc.com**

Sampler: **Bechtold, Chad**
 Phone: **813-885-7427**

Carrier Tracking No(s):
 Job #: **660-68566-1**

COC No: **660-80639-1**
 Page: **Page 1 of 1**

Due Date Requested: **8/26/2015**
 TAT Requested (days):

Address: **2846 Industrial Plaza Drive, Tallahassee, FL, 32301**
 City: **Tallahassee**
 State, Zip: **FL, 32301**
 Phone: **850-878-3994 (Tel) 850-878-9504 (Fax)**
 Email: **SWPFWMD Coastal Rivers**

Project Name: **SWPFWMD Coastal Rivers**
 Project #: **66009055**
 SSOV#: **66009055**

Analysis Requested

Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=Wastewater, B=Trisoma Acid)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of containers	Special Instructions/Note
WWT100SS3W (2015 AUG 13) (660-68601-1)	8/13/15	11:30 Eastern		Water	X		1	
WWT100SS3PW (2015 AUG 13) (660-68601-2)	8/13/15	11:00 Eastern		Water	X		1	

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

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

Relinquished by: *ABW/KL* Date/Time: *08/18/15 1750* Company: *TA* Received by: *Yolanda Campbell* Date/Time: *8/21/15 0950* Company: *TA*

Relinquished by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No **Custody Seal No.:** _____ Cooler Temperature(s) °C and Other Remarks: *1.7°C*

Special Instructions/Note:
 Return To Client Disposal By Lab Archive For _____ Months

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

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information
 Client Contact: **Miss. KT Moran**
 Company: **ARCADIS U.S., Inc.**
 Address: **14025 Riveredge Drive Suite 600**
 City: **Tampa**
 State, Zip: **FL 33637**
 Phone: **813-334-9068(Tel)**
 Email: **kt.moran@arcadis-us.com**
 Project Name: **SWFWMD Coastal Rivers**
 SSW#: **66090955**

Sampler: **R12 MATIAS**
Phone: **813-285-1322**
Lab P#: Robertson, Nancy
Email: nancy.robertson@testamericainc.com
Center Tracking No(s):

Due Date Requested:
TAT Requested (days):

Analysis Requested

COC No: 650-64000-20571.3
Page: Page 3 of 4
Job #:

Sample Identification	Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (Number, Sample, Container, A=All)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Preservation Codes:	Special Instructions/Note:
CZ 0.5 SED (10/14/2015)	10.14.2015	1000	G	Solid			399.1, 399.2, 386.4 - Phosphorus - Total, 3500 - FE - Ferrous Iron, 366.2 - Free Nitrate Nitrite as N, 366.2 - Ortho - Orthophosphate, 6010B - Dissolved Cu, Fe, Mn, Mg, K Lab to filter, 6010B - Total Cu, Fe, Mn, Mg, K, 350.1 - Ammonia (as N), 6010B - Cu, Fe, Mn, Mg, K, 351.2, 354.1, 385.1 - Ortho, 365.4, 3039, 4251 - Nitrogen, Total	A-HCL, B-NaOH, C-Zn Acetate, D-Nitric Acid, E-NH4SO4, F-MeOH, G-Archiefer, H-Ascorbic Acid, I-Ice, J-DI Water, K-EDTA, L-EDA, Other:	SEDIMENT SAMPLES: TP, SP, TN, NH3, NO3, NO2, TP, OP, Cl, SO4, Fe, Mn, Mg, Cu, V
CZ 0.5 SW (10/14/2015)	10/15	1015		Solid W					
CZ 0.5 PW (10/14/2015)	10/15	1015		Solid W					
CZ 1.0 SED (10/14/2015)	11/51	1151		Solid					
CZ 1.5 SED (10/14/2015)	12/01	1201		Solid					
CZ 1.5 SW (10/14/2015)	12/48	1248		Solid W					
CZ 1.5 PW (10/14/2015)	12/48	1248		Solid W					
CZ 2.0 SED (10/14/2015)	13/50	1350		Solid					
CZ 2.5 SED (10/14/2015)	14/30	1430		Solid					
CZ 2.5 SW (10/14/2015)	14/45	1445		Solid W					
CZ 2.5 PW (10/14/2015)	14/45	1445		Solid W					

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

Deliverable Requested: I, II, III, IV, Other (specify)

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

Special Instructions/OC Requirements:

660-69823 Chain of Custody

Barcode:

Loc: 660 69823

Empty Kit Relinquished by: **RE W. [Signature]** **Date:** **07-30-15** **Time:** **1630** **Method of Shipment:** **Overnight**

Relinquished by: **RE W. [Signature]** **Date/Time:** **10/15/2015 @ 0520** **Company:** **ARCADIS**

Relinquished by: **[Signature]** **Date/Time:** **10/15/15 @ 0605** **Company:** **TA TPA**

Relinquished by: **[Signature]** **Date/Time:** **10/15/15 @ 0830** **Company:** **TA TPA**

Custody Seals Intact: Yes No **Custody Seal No.:** **39130**

Cooler Temperature(s) °C and Other Remarks: **39/30**

Chain of Custody Record

Client Information

Client Contact:
Mr. KT Moran

Company:
ARCADIS U.S., Inc.

Address:
14025 Riveredge Drive Suite 600

City:
Tampa

State, Zip:
FL, 33637

Phone:
813-394-9068(Tel)

Email:
kt.moran@arcadis-us.com

Project Name:
SWFWMD Coastal Rivers

Site:

Sampler: **PAK MATHIAS**
Phone: **813-285-1322**

Lab PM: **Jones, Matt**
E-Mail: **matt.jones@testamerica.com**

Carrier Tracking No(s):

COC No: **660-64001-20572.1**
Page: **1 of 2**
Job #:

Date Date Requested:

TAT Requested (days):

Analysis Requested

PO #:	06562904.D003
WQ #:	
Project #:	66009055
SSO #:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=Soil, A=Air, P=Plankton, etc.)	Preservation Code:
CE 3.5 SW (10/15/2015)	10/15/2015	1015	G	Water	ND
CE 3.5 PW (10/15/2015)		1205		Water	
CE 4.5 SW (10/15/2015)		1205		Water	
CE 4.5 PW (10/15/2015)		1520		Water	
CE 5.5 SW (10/15/2015)		1520		Water	
CE 5.5 PW (10/15/2015)				Water	

Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1, 351.2	SM4500_CL_E, SM4500_SO4_E	365.4 - Phosphorus, Total	3500_FE_D - Ferrous Iron	363.2_Pres - Nitrate Nitrite as N	365.2_Ortho - Orthophosphate	6010B - Dissolved Cu,Fe,Mn,Mg,K lab to filter	6010B - Total Cu,Fe,Mn,Mg,K	350.1 - Ammonia (as N)	6010B - Cu,Fe,Mn,Mg,K	351.2, 354.1, 365.1_Ortho, 365.4, 9038, 9261, Nitrogen, Total
		S		N	N	N	N	N	N	N	N	N

Total Number of containers	
Special Instructions/Note:	
Preservation Codes:	A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amphoter H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsH2O2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - Other (Specify)

Possible Hazard Identification	<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological
Deliverable Requested: I, II, III, IV, Other (specify)	

660-69852 Chain of Custody	
Special Instructions/QC Requirements:	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
Loc: 660	69852

Empty Kit Relinquished by:	YTC PAK	Date/Time:	10-10-14	Time:	1600	Method of Shipment:	airmail
Relinquished by:	AT MATHIAS	Date/Time:	10-16-2015 @ 0510	Company:	ARCADIS	Received by:	Matt Jones
Relinquished by:	AT MATHIAS	Date/Time:	10-16-15 @ 0610	Company:	TM MA	Received by:	AT MATHIAS

Custody Seals Intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	10/11 9/10/11
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TestAmerica Tampa
 6712 Benjamin Road Suite 100
 Tampa, FL 33634
 Phone (813) 885-7427 Fax (813) 885-7049

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information
 Client Contact: Ms. KT Moran
 Sample ID: **DK MATTHIAS**
 Phone: **813-285-1322**
 Lab P/N: Jones, Matt
 E-Mail: matt.jones@testamericacorp.com

Company: ARCADIS U.S., Inc.
 Address: 14029 Riveredge Drive Suite 600
 City: Tampa
 State, Zip: FL, 33637
 Phone: 813-334-9088 (Tel)
 Email: kt.moran@arcadis-us.com
 Project Name: SWFWMD Coastal Rivers
 Project #: 66009055
 SSOV#:
 Due Date Requested:
 TAT Requested (days):
 PO #: 06962004.D003
 W/O #:

Analysis Requested
 Field Filtered Sample (Yes or No)
 Perform MS/MSD (Yes or No)
 350.1, 351.2
 SM4500_CL_E, SM4500_SO4_E
 365.4 - Phosphorus, Total
 3500_FE_D - Ferrous Iron
 353.2_Pres - Nitrate Nitrite as N
 365.2_Ortho - Orthophosphate
 6010B - Dissolved Cu,Fe,Mn,Mg,K lab to filter
 6010B - Total Cu,Fe,Mn,Mg,K
 350.1 - Ammonia (as N)
 6010B - Cu,Fe,Mn,Mg,K
 351.2, 354.1, 365.1_Ortho, 365.4, 9038, 9251, Nitrogen, Total

Sample Identification

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (youver, sanalit, commercial, in-house A-M)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	COG No:	Page #
CE 3.0 SED (10/15/2015)	10/15/2015	0930	G	Solid	N	N	N	350.1, 351.2	660-64001-20572.4	2 of 2
CE 3.5 SED (10/15/2015)	10/15/2015	0955	G	Solid	N	N	N	SM4500_CL_E, SM4500_SO4_E		
CE 4.0 SED (10/15/2015)	10/15/2015	1100	G	Solid	N	N	N	365.4 - Phosphorus, Total		
CE 4.5 SED (10/15/2015)	10/15/2015	1140	G	Solid	N	N	N	3500_FE_D - Ferrous Iron		
CE 5.0 SED (10/15/2015)	10/15/2015	1430	G	Solid	N	N	N	353.2_Pres - Nitrate Nitrite as N		
CE 5.5 SED (10/15/2015)	10/15/2015	1510	G	Solid	N	N	N	365.2_Ortho - Orthophosphate		
CE 6.0 SED (10/15/2015)	10/15/2015	1555	G	Solid	N	N	N	6010B - Dissolved Cu,Fe,Mn,Mg,K lab to filter		
								6010B - Total Cu,Fe,Mn,Mg,K		
								350.1 - Ammonia (as N)		
								6010B - Cu,Fe,Mn,Mg,K		
								351.2, 354.1, 365.1_Ortho, 365.4, 9038, 9251, Nitrogen, Total		

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (Specify)
 Empty Kit Relinquished by: **HT Kelly** Date: **10-14-15** Time: **1600**
 Relinquished by: **Ed Mathias** Date/Time: **10/15/2015 @ 0510** Company: **ARCADIS**
 Relinquished by: **Ed Mathias** Date/Time: **10-16-15 @ 0610** Company: **ARCADIS**
 Relinquished by: **Ed Mathias** Date/Time: **10-16-15 @ 0610** Company: **ARCADIS**

Special Instructions/Note:
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For Months
 Special Instructions/QC Requirements:
 Method of Shipment: **air**
 Received by: **Ed Mathias** Date/Time: **10/16/15 @ 1520** Company: **ARCADIS**
 Received by: **Ed Mathias** Date/Time: **10/16/15 @ 0610** Company: **ARCADIS**

Custody Seals Intact: Yes No
 Custody Seal No.: **10/17 96127**
 Cooler Temperature(s) °C and Other Remarks:
 Date/Time: **10/17**

Analysis Requested
 Field Filtered Sample (Yes or No)
 Perform MS/MSD (Yes or No)
 350.1, 351.2
 SM4500_CL_E, SM4500_SO4_E
 365.4 - Phosphorus, Total
 3500_FE_D - Ferrous Iron
 353.2_Pres - Nitrate Nitrite as N
 365.2_Ortho - Orthophosphate
 6010B - Dissolved Cu,Fe,Mn,Mg,K lab to filter
 6010B - Total Cu,Fe,Mn,Mg,K
 350.1 - Ammonia (as N)
 6010B - Cu,Fe,Mn,Mg,K
 351.2, 354.1, 365.1_Ortho, 365.4, 9038, 9251, Nitrogen, Total

COG No: 660-64001-20572.4
Page #: 2 of 2
Job #:

Chain of Custody Record

Client Information

Client Contact:
Ms. KT Moran

Sampler: R.K. MATIAS
Phone: 813-285-1322

Lab Pk: Jones, Matt
E-Mail: matt.jones@testamericainc.com

Carrier Tracking No(s):

COC No: 660-64001-20572.1
Page: Page 1 of 2
Job #:

Company:

ARCADIS U.S., Inc.

Analysis Requested

Preservation Codes:

Address: 14026 Riveredge Drive Suite 600

Due Date Requested:

TAT Requested (days):

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Ammonia
H - Acetic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsinSO2
P - Na2CO3
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Oxidant/hydrate
U - Acetone
V - MCAA
W - pH 4.5
Z - other (specify)

City: Tampa

PC #:

350.1, 351.2
SM4600_CL_E, SM4600_SO4_E
365.4 - Phosphorus, Total
3500_FE_D - Ferrous Iron
363.2_Pres - Nitrate NRrite as N
365.2_Ortho - Orthophosphate
6010B - Dissolved Cu,Fe,Mn,Mg,K lab to filter
6010B - Total Cu,Fe,Mn,Mg,K
350.1 - Ammonia (as N)
6010B - Cu,Fe,Mn,Mg,K
351.2, 364.1, 365.1 Ortho, 365.4, 9038, 9261, Nitrogen, Total

State Zip: FL, 33637

WO #:

Total Number of containers

Phone: 813-334-9068 (Tel)

Project #:

Other:

Email: kt.moran@arcadis-us.com

SSOW#:

Loc: 660
69879

Project Name: SWFWMD Coastal Rivers

Site:

Note:

Sample Identification

Sample Date

Sample Time

Sample Type (C=Comp, G=grab)

Matrix (In-water, On-site, On-shore, Air)

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

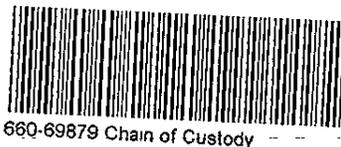
Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (In-water, On-site, On-shore, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)
CZ 6.5 SW (10/16/2015)	10-16-15	0925	G	Water	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CZ 6.5 PW (10/16/2015)		0925	G	Water	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CZ 7.5 SW (10/16/2015)		1120	G	Water	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CZ 7.5 PW (10/16/2015)		1120	G	Water	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CZ 8.5 SW (10/16/2015)		1405	G	Water	N	N	N	N	N	N	N	N	N	N	N	N	N	N
CZ 8.5 PW (10/16/2015)		1405	G	Water	N	N	N	N	N	N	N	N	N	N	N	N	N	N



660-69879 Chain of Custody

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

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

Empty Kit Relinquished by: [Signature]

Date/Time: 10-17-2015 @ 0510

Company: ARCADIS

Received by: [Signature]

Date/Time: 10-17-15 @ 0555

Company: TMA

Relinquished by: [Signature]

Date/Time: 10-17-15 @ 0635

Company: [Signature]

Received by: [Signature]

Date/Time: 10-17-15 @ 0555

Company: TMA

Relinquished by: [Signature]

Date/Time: 10-17-15 @ 0635

Company: [Signature]

Received by: [Signature]

Date/Time: 10-17-15 @ 0555

Company: TMA

Custody Seals Intact: Yes No

Custody Seal No.:

Colder Temperature(s) and Other Remarks: 1.8 11.9 4.1.5

AW-09

Company: [Signature]

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

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information
 Client Contact: Ms. KT Moran
 Company: ARCADIS U.S., Inc.
 Address: 14025 Riveredge Drive Suite 600
 City: Tampa
 State, Zip: FL, 33637
 Phone: 813-334-9068 (Tel)
 Email: kt.moran@arcadis-us.com
 Project Name: SWFWMD Coastal Rivers
 Site:
 SOW#:
 Project #: 66009055
 SOW#:
 Job #:
 Page 1 of 2

Sample Information
 Sample: RIV MATHIAS
 Phone: 813-285-1322
 Lab PM: Jones, Matt
 E-Mail: matt.jones@testamericainc.com
 Carrier Tracking No(s):
 Job #:
 Page 1 of 2

Analysis Requested
 Due Date Requested:
 TAT Requested (days):
 Field Filtered Sample (Yes or No)
 Performed (MBC/NA or No)
 350.1, 351.2
 SM4600_Cl_E, SM4600_SO4_E
 355.4 - Phosphorus, Total
 3500_FE_D - Ferrous Iron
 355.2_Pres - NHrate NHrite as N
 355.2_Ortho - Orthophosphate
 6010B - Dissolved Cu,Fe,Mn,Mg,K lab to filter
 6010B - Total Cu,Fe,Mn,Mg,K
 350.1 - Ammonia (as N)
 6010B - Cu,Fe,Mn,Mg,K
 351.2, 354.1, 355.1_Ortho, 355.4, 8038, 8251, Nitrogen, Total
 Total Number of Containers:
 Special Instructions/Note:
 Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - H2SO4
 F - MeOH
 G - Anchor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 Other:
 M - Hexane
 N - None
 O - As2O2
 P - Na2CO3
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Potentially
 U - Acetone
 V - MeOH
 W - pH 4.5
 Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Invertebrate, Aquatic, Terrestrial, Other)	Preservation Code	Field Filtered Sample (Yes or No)	Performed (MBC/NA or No)	Analysis Requested	Special Instructions/Note
HM 10.5 SW (10/19/2015)	10-19-2015	1130	G	Water	N	X	X	350.1, 351.2	
HM 10.5 PW (10/19/2015)	10-19-2015	1130	G	Water	N	X	X	SM4600_Cl_E, SM4600_SO4_E	
HM 9.5 SW (10/19/2015)	10-19-2015	1425	G	Water	N	X	X	355.4 - Phosphorus, Total	
HM 9.5 PW (10/19/2015)	10-19-2015	1425	G	Water	N	X	X	3500_FE_D - Ferrous Iron	
				Water	N	X	X	355.2_Pres - NHrate NHrite as N	
				Water	N	X	X	355.2_Ortho - Orthophosphate	
				Water	N	X	X	6010B - Dissolved Cu,Fe,Mn,Mg,K lab to filter	
				Water	N	X	X	6010B - Total Cu,Fe,Mn,Mg,K	
				Water	N	X	X	350.1 - Ammonia (as N)	
				Water	N	X	X	6010B - Cu,Fe,Mn,Mg,K	
				Water	N	X	X	351.2, 354.1, 355.1_Ortho, 355.4, 8038, 8251, Nitrogen, Total	

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

Deliverable Requested: I, II, III, IV, Other (specify):
 Return To Client Dispose By Lab Archive For _____ Months

Empty Kit Relinquished by:
Relinquished by:
Relinquished by:
Relinquished by:

Date: 10-14-15
Time: 1:00
Method of Shipment:
Carrier:
Company:

Special Instructions/OC Requirements:

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

Barcode: 69893
 Loc: 660
 69893

Custody Seats Intact: Yes No
Custody Seal No.:
 cooler Temperature(s) °C and Other Remarks: 8/4, 10/16 00-09

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

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information
 Client Name: M/S. KT Moran
 Company: ARCADIS U.S. Inc.
 Address: 14025 Riveredge Drive Suite 600
 City: Tampa
 State, Zip: FL 33637
 Phone: 813-334-9668(Tel)
 Email: K.Moran@arcadis-us.com
 Project Name: SWFWMD Coastal Rivers
 Site: SSOVW#

Sampler: RIV MATRIAS
Phone: 813-285-1322
Lab P/N: Robertson, Nancy
E-Mail: nancy.robertson@testamericainc.com
Center Tracking No(s):

Due Date Requested:
TAT Requested (days):
PO #: 06562004.D003
MO #:
Project #: 66009065
SSOVW#:

Analysis Requested

<input checked="" type="checkbox"/> Field Filtered Sample (Resonance)	360.1, 361.2
<input checked="" type="checkbox"/> Perom. M / MSP (As N)	SM4500_CI_E, SM4500_SO4_E
<input type="checkbox"/>	365.4 - Phosphorus, Total
<input type="checkbox"/>	3500_FE_D - Ferrous Iron
<input type="checkbox"/>	353.2_Pres - NHrate Nitrite as N
<input type="checkbox"/>	365.2_Ortho - Orthophosphate
<input type="checkbox"/>	6010B - Dissolved Cu,Fe,Mn,Mg,K lab to filter
<input type="checkbox"/>	6010B - Total Cu,Fe,Mn,Mg,K
<input type="checkbox"/>	350.1 - Ammonia (as N)
<input type="checkbox"/>	6010B - Cu,Fe,Mn,Mg,K
<input type="checkbox"/>	361.2, 364.1, 365.1_Ortho, 365.4, 9038, 9261, Nitrogen, Total

Total Number of Containers:
Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=solid, S=solid, C=Composite, G=Grain, L=Leachate)	Field Filtered Sample (Resonance)	Perom. M / MSP (As N)	360.1, 361.2	SM4500_CI_E, SM4500_SO4_E	365.4 - Phosphorus, Total	3500_FE_D - Ferrous Iron	353.2_Pres - NHrate Nitrite as N	365.2_Ortho - Orthophosphate	6010B - Dissolved Cu,Fe,Mn,Mg,K lab to filter	6010B - Total Cu,Fe,Mn,Mg,K	350.1 - Ammonia (as N)	6010B - Cu,Fe,Mn,Mg,K	361.2, 364.1, 365.1_Ortho, 365.4, 9038, 9261, Nitrogen, Total	Total Number of Containers	Special Instructions/Note
HM 10.5 SED (10/19/2015)	10-19-2015	1055	G	Solid	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>													
HM 10.0 SED (10/19/2015)		1315		Solid															
HM 9.5 SED (10/19/2015)		1400		Solid															
HM 9.0 SED (10/19/2015)		1500		Solid															

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

Deliverable Requested: I, II, III, IV, Other (specify)

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

Empty Kit Requisitioned by: [Signature]
Requisitioned by: [Signature]
Date/Time: 10-20-2015 @ 0510
Company: ARCADIS
Received by: [Signature]
Date/Time: 10-20-15 @ 0605
Company: TPA TPA

Method of Shipment: Casualty
Received by: [Signature]
Date/Time: 10-20-15 @ 0810
Company: TPA TPA
Received by: [Signature]
Date/Time: 8/14, 10/16
Company: CW-09

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

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information
 Client Contact: **PIK MATIAS** Phone: **813-285-1322**
 Name: **John Jones, Matt** E-Mail: **mat.jones@testamericainc.com**
 Company: **ARCADIS U.S., Inc.** Job #: **880-64001-20572.1**
 Address: **14025 Riveridge Drive Suite 600** Page: **1 of 2**
 City: **Tampa** State, Zip: **FL, 33637** Project: **69009055**
 Phone: **813-834-9068 (Tel)** Project #: **69009055**
 Email: **K.jones@arcadis-us.com** Project #: **69009055**
 Project Name: **SMFWMD Coastal Rivers** SSOVER: **69009055**

Analysis Requested

Sample ID	Sample Date	Sample Time	Sample Type (Comp, Grabs)	Matrix (Invert, Swab, Composite, Other)	Preservation Codes	Analysis Requested
HM 8.5 SW (10/20/2015)	10/20/2015	0940	G	Water	N	350.1, 351.2 350.1 - Ammonia (as N) 6010B - Cu, Fe, Mn, Mg, K
HM 8.5 PW (10/20/2015)		0940		Water	N	350.1, 351.2 350.1 - Ammonia (as N) 6010B - Cu, Fe, Mn, Mg, K
HM 7.5 SW (10/20/2015)		1415		Water	N	350.1, 351.2 350.1 - Ammonia (as N) 6010B - Cu, Fe, Mn, Mg, K
HM 7.5 PW (10/20/2015)		1415		Water	N	350.1, 351.2 350.1 - Ammonia (as N) 6010B - Cu, Fe, Mn, Mg, K
HM 6.5 SW (10/20/2015)		1457		Water	N	350.1, 351.2 350.1 - Ammonia (as N) 6010B - Cu, Fe, Mn, Mg, K
HM 6.5 PW (10/20/2015)		1457		Water	N	350.1, 351.2 350.1 - Ammonia (as N) 6010B - Cu, Fe, Mn, Mg, K
HM 5.5 SW (10/20/2015)		1530		Water	N	350.1, 351.2 350.1 - Ammonia (as N) 6010B - Cu, Fe, Mn, Mg, K
HM 5.5 PW (10/20/2015)		1530		Water	N	350.1, 351.2 350.1 - Ammonia (as N) 6010B - Cu, Fe, Mn, Mg, K
HM 4.5 SW (10/20/2015)		1655		Water	N	350.1, 351.2 350.1 - Ammonia (as N) 6010B - Cu, Fe, Mn, Mg, K
HM 4.5 PW (10/20/2015)		1655		Water	N	350.1, 351.2 350.1 - Ammonia (as N) 6010B - Cu, Fe, Mn, Mg, K
HM 3.5 SW (10/20/2015)		1740		Water	N	350.1, 351.2 350.1 - Ammonia (as N) 6010B - Cu, Fe, Mn, Mg, K

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

Deliverable Requested: I, II, III, IV, Other (specify):

Empty Kit Relinquished by: *[Signature]* Date: **10-14-15** Time: **16:00**

Relinquished by: *[Signature]* Date/Time: **10-21-2015 @ 0510** Company: **ARCADIS**

Relinquished by: *[Signature]* Date/Time: **10-21-15 @ 0605** Company: **ARCADIS**

Custody Seals Intact: Custody Seal No.:

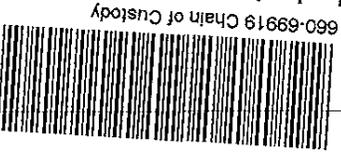
Special Instructions: Return To Client Disposal By Lab Archive For

Method of Shipment: **Express**

Relinquished by: *[Signature]* Date/Time: **10-21-15 @ 0520** Company: **ARCADIS**

Relinquished by: *[Signature]* Date/Time: **10-21-15 @ 0605** Company: **ARCADIS**

Cooler Temperature(s): **13/17** **C** and Other Remarks:



Loc: 860
69919

TestAmerica Tampa
 6712 Benjamin Road Suite 100
 Tampa, FL 33634
 Phone (813) 385-7427 Fax (813) 895-7049

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information
 Client Contact: Ms. KT Moran
 Company: ARCADIS U.S., Inc.
 Address: 14025 Riveredge Drive Suite 600
 City: Tampa
 State, Zip: FL 33637
 Phone: 813-334-9068(Tel)
 Email: klmoran@arcadis-us.com
 Project Name: SWPFWMD Coastal Rivers
 Site: SSOVW#

Sampler: RIK MATHIAS
Phone: (813) 285-1322
Email: nancy.robertson@testamericainc.com

Lab Piv: Robertson, Nancy
Carrier Tracking No(s):

COC No: 660-64000-20571.3
Page: 2 of 2
Job #:

Due Date Requested:
TAT Requested (days):
Analysis Requested:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (M=Matrix, S=Solid, L=Liquid, G=Gas, T=Trace, A=Air)	Retention Code	Analysis Requested	Preservation Codes
HM 8.0 SED (10/21/2015)	10-21-2015	0935	G	Solid	N	350.1, 351.2 SM4500_Cl_E, SM4500_SO4_E 365.4 - Phosphorus, Total 3500_FE_D - Ferrous Iron 363.2_Pres - Nitrate Nitrite as N 365.2_Ortho - Orthophosphate 6010B - Dissolved Cu,Fe,Mn,Mg,K lab to filter 6010B - Total Cu,Fe,Mn,Mg,K 350.1 - Ammonia (as N) 6010B - Cu,Fe,Mn,Mg,K 351.2, 354.1, 365.1_Ortho, 365.4, 9038, 9261, Nitrogen, Total	A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - Nitric Acid F - Nitric Acid G - Ascorbic Acid H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - Acetic Acid P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylpyrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)
HM 7.5 SED (10/21/2015)		1606		Solid	N		
HM 7.0 SED (10/21/2015)		1030		Solid	N		
HM 6.5 SED (10/21/2015)		1105		Solid	N		
HM 6.0 SED (10/21/2015)		1200		Solid	N		
HM 5.5 SED (10/21/2015)		1330		Solid	N		
HM 5.0 SED (10/21/2015)		1400		Solid	N		
HM 4.5 SED (10/21/2015)		1430		Solid	N		
HM 4.0 SED (10/21/2015)		1435		Solid	N		
HM 3.5 SED (10/21/2015)		1520		Solid	N		
HM 3.0 SED (10/21/2015)		1545		Solid	N		

Sample Identification
 HM 8.0 SED (10/21/2015)
 HM 7.5 SED (10/21/2015)
 HM 7.0 SED (10/21/2015)
 HM 6.5 SED (10/21/2015)
 HM 6.0 SED (10/21/2015)
 HM 5.5 SED (10/21/2015)
 HM 5.0 SED (10/21/2015)
 HM 4.5 SED (10/21/2015)
 HM 4.0 SED (10/21/2015)
 HM 3.5 SED (10/21/2015)
 HM 3.0 SED (10/21/2015)

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

Deliverable Requested: I, II, III, IV, Other (specify)

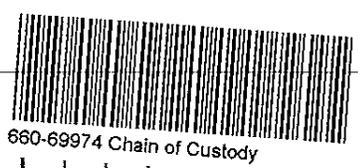
Sample Disposal: A fee may be assessed if samples are retained longer than 30 days.
 Return To Client Disposal By Lab Archive For

Special Instructions/QC Requirements:

Empty Kit Relinquished by: [Signature] **Date/Time:** 10-22-15 @ 0510
Relinquished by: [Signature] **Date/Time:** 10-22-15 @ 0605
Relinquished by: [Signature] **Date/Time:** 10-22-15 @ 0605

Company: ARCADIS
Company: TPA
Company: TPA

Custody Seal Intact: A Yes, B No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:



Loc: 660
 69974

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

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information
 Client Contact: **Mr. KT Moran**
 Company: **ARCADIS U.S., Inc.**
 Address: **14025 Riveredge Drive Suite 600**
 City: **Tampa**
 State, Zip: **FL, 33637**
 Phone: **813-394-9068 (Tel)**
 Email: **kt.moran@arcadis-us.com**
 Project Name: **SMF/MAID Coastal Rivers**
 SSOV#: **69009055**

Sample
 Sample ID: **R1KMA141AS**
 Phone: **813-285-1322**

Lab POC
 Jones, Matt
 E-Mail: **frank.jones@testamericainc.com**

Carrier Tracking No(s)

QC No
 690-84001-20572.1

Page
 Page 1 of 2

Analysis Requested

<input checked="" type="checkbox"/>	Field Filtered Sample (Yes or No)
<input checked="" type="checkbox"/>	350.1, 351.2
<input checked="" type="checkbox"/>	SM4600_GL_E, SM4600_SQ4_E
<input checked="" type="checkbox"/>	355.4 - Phosphorus, Total
<input checked="" type="checkbox"/>	3500_FE_D - Ferrrous Iron
<input checked="" type="checkbox"/>	353.2_Pres - Nitrate Nitrite as N
<input checked="" type="checkbox"/>	355.2_Ortho - Orthophosphato
<input checked="" type="checkbox"/>	6010B - Dissolved Cu,Fe,Mn,Mg,K (ab to filter)
<input checked="" type="checkbox"/>	6010B - Total Cu,Fe,Mn,Mg,K
<input checked="" type="checkbox"/>	350.1 - Ammonia (as N)
<input checked="" type="checkbox"/>	6010B - Cu,Fe,Mn,Mg,K
<input checked="" type="checkbox"/>	351.2, 354.1, 355.1_Ortho, 355.4, 6010, 9251, Nitrogen, Total
<input checked="" type="checkbox"/>	Total Number of Conditions

Special Instructions/Notes

Preservation Codes:

A - HCL	M - Hexamine
B - NaOH	N - None
C - Zn Acetate	O - AsHClO2
D - Nitric Acid	P - NaOClS
E - NaHSO4	Q - NaOCl
F - NaOH	R - Na2SO3
G - Ascorbic Acid	S - H2SO4
H - Ascorbic Acid	T - TSP Dechlorhydrata
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4.5
L - EDA	Z - Other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (Q-comp, G-grab)	Matrix (Amoxic, Amoxic, Osmotic, Water, Anal)	Retention (Q-comp)	Analysis Requested	Received By	Date	Company
HM 1.5 SW (10/22/2015)	10-22-2015	1010	G	Water	W	<input checked="" type="checkbox"/>			
HM 1.5 PW (10/22/2015)	1010			Water	N	<input checked="" type="checkbox"/>			
WW 8.5 SW (10/22/2015)	1705			Water		<input checked="" type="checkbox"/>			
WW 8.5 PW (10/22/2015)	1705			Water		<input checked="" type="checkbox"/>			
				Water		<input checked="" type="checkbox"/>			
				Water		<input checked="" type="checkbox"/>			
				Water		<input checked="" type="checkbox"/>			
				Water		<input checked="" type="checkbox"/>			
				Water		<input checked="" type="checkbox"/>			
				Water		<input checked="" type="checkbox"/>			

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

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Requisitioned by: *[Signature]* **Date:** 10-14-15

Requisitioned by: *[Signature]* **Date/Time:** 10-23-2015 @ 0510 **Company:** ARCADIS

Requisitioned by: *[Signature]* **Date/Time:** 10-23-15 @ 0605 **Company:** TPA

Custody Seal Intact: **Custody Seal No.:** *[Blank]*

Special Instructions/OC Requirements:

Return To Client Disposal By Lab Archive For Months

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Barcode: 690-70002 Chain of Custody

Loc: 660
70002

Method of Shipment: *[Blank]*

Received by: *[Signature]* **Date/Time:** 10-23-15 @ 0530 **Company:** TPA

Received by: *[Signature]* **Date/Time:** 10-23-15 0800 **Company:** TPA

Cooler Temperature(s): *[Blank]* **C and Other Remarks:** *[Blank]*

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

Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information
 Client Contact: Ms. KT Moran
 Company: ARCADIS U.S., Inc.
 Address: 14025 Riveredge Drive Suite 600
 City: Tampa
 State, Zip: FL, 33637
 Project: 813-334-9068 (Tel)
 Email: kt.moran@arcadis-us.com
 Project Name: SW/FWMD Coastal Rivers
 Site: SSOVW#

Sampler: RIK MATTHIAS
 Phone: 813-285-1322
 Lab P/N: Robertson, Nancy
 E-Mail: nancy.robertson@testamerica.com

Center Tracking No(s):

Analysis Requested

QC No: 860-64000-20571.4
 Page: 2 of 2
 Job #:

Date Data Requested:
 TAT Requested (days):
 PO #:
 MO #:
 Project #:
 SSOVW#:

Sample Identification

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Synthetic, Spiked, Commercial, Other)
HM 2.0 SED (10/22/2015)	10/22/2015	0950	G	Solid
HM 1.5 SED (10/22/2015)		1030	G	Solid
HM 1.0 SED (10/22/2015)		1230	G	Solid
WW 9.5 SED (10/22/2015)		1520	G	Solid
WW 9.0 SED (10/22/2015)		1530	G	Solid
WW 8.5 SED (10/22/2015)		1635	G	Solid

Field Filtered Sample (Yes/No):
 Total Number of Containers:
 Special Instructions/Note:

Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - HANHSO4
 F - MeOH
 G - Anchor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 M - Hexane
 N - None
 O - AsHClO2
 P - Na2CO3
 Q - Na2S2O3
 R - Na2S2O8
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCA
 W - DI 45
 Z - other (specify)

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

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: *KT Moran*
 Relinquished by: *KT Moran*
 Relinquished by: *KT Moran*
 Relinquished by: *KT Moran*

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

Special Instructions/QC Requirements:

Method of Shipment: *Carry*
 Date/Time: *10-23-2015 @ 0510*
 Date/Time: *10-23-15 @ 0605*
 Date/Time: *10-23-15 @ 0530*
 Date/Time: *10-23-15 0800*

Custody Seal/Inact: Custody Seal/No:

Company: ARCADIS
 Company: TAT-TPA
 Company: TAT-TPA

Received by: *KT Moran*
 Received by: *KT Moran*
 Received by: *KT Moran*
 Received by: *KT Moran*

Company: TAT-TPA
 Company: TAT-TPA
 Company: TAT-TPA

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 Tampa, FL 33634
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Chain of Custody Record

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information
 Client Contact: Ms. KT Moran
 Company: ARCADIS U.S., Inc.
 Address: 14025 Riveredge Drive Suite 600
 City: Tampa
 State, Zip: FL, 33637
 Phone: 813-334-9068(Tel)
 Email: kt.moran@arcadis-us.com
 Project Name: SWFWMD Coastal Rivers
 Site: SWFWMD Coastal Rivers

Lab Pk: Jones, Matt
E-Mail: matt.jones@testamericainc.com

Carrier Tracking No(s):

COC No: 660-64001-20572-1
Page: Page 1 of 2
JSD #:

Sample Information
 Sample: RIV - MATRIAS
 Project: (813) 285-1322

Due Date Requested:
 TAT Requested (days):
 PO #: 06562004.D003
 WO #:
 Project #: 66009055
 SSOV#:

Analysis Requested

Field Filtered Sample (Yes or No)
 Yes
 No

Performance/MSD (Yes or No)
 Yes
 No

Preservation Codes:
 A - HCl
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - H₂SO₄
 F - MeOH
 G - Anchor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 M - Heptane
 N - None
 O - AsH₂O₂
 P - NaOH/S
 Q - NaOH/S
 R - NaOH/S/S
 S - H₂SO₄
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4.5
 Z - other (specify)

Sample Identification	Sample Date	Sample Time	Sample Type (Co-Comp, Grab)	Matrix (Water, Sediment, Soil, etc.)	Field Filtered Sample (Yes or No)	Performance/MSD (Yes or No)	Analysis Requested
WW 7.5 SW (10/23/2015)	10-23-2015	1030	G	Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	350.1, 351.2 6M4500_CLE, 6M4500_SO4_E 365.4 - Phosphorus, Total 3500_FE_D - Ferrous Iron 353.2_Pres - Nitrate Nitrite as N 365.2_Ortho - Orthophosphate 6010B - Dissolved Cu,Fe,Mn,Mg,K lab to filter 6010B - Total Cu,Fe,Mn,Mg,K 350.1 - Ammonia (as N) 6010B - Cu,Fe,Mn,Mg,K 351.2, 354.1, 365.1_Ortho, 365.4, 9038, 9251, Nitrogen, Total
WW 7.5 SW (10/23/2015)		1030		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
WW 6.5 SW (10/23/2015)		1225		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
WW 6.5 SW (10/23/2015)		1225		Water	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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

Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: [Signature]
Date: 10-14-15
Time: 1:00

Relinquished by: [Signature]
Date/Time: 10-24-2015 @ 08:30
Company: ARCADIS

Relinquished by: [Signature]
Date/Time: 10-24-15 @ 06:15
Company: TR-TPA

Relinquished by: [Signature]
Date/Time:
Company:

Custody Seals Intact: Yes No
Custody Seal No.:

Special Instructions/QC Requirements:

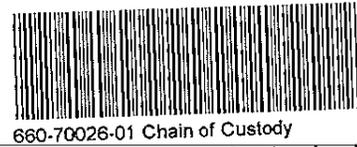
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Method of Shipment: [Signature]

Date/Time: 10-24-15 @ 05:40
Company: TR-TPA

Date/Time:
Company:

Cooler Temperature(s) °C and Other Remarks: 1.6/1.7 W-09



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Chain of Custody Record

TestAmerica
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 Phone (813) 885-7427 Fax (813) 885-7049

Client Information
 Client Contact: Ms. KT Moran
 Company: ARCADIS U.S., Inc.
 Address: 14025 Riveredge Drive Suite 600
 City: Tampa
 State, Zip: FL, 33637
 Phone: 813-334-9068 (Tel)
 Email: kt.moran@arcadis-us.com
 Project Name: SWFWMD Coastal Rivers
 Site: SSOV#:

Sampler: RUIZ MARTINEZ
Project: (813) 285-1322
Lab P/N: Jones, Matt
E-Mail: matt.jones@testamericainc.com
Carrier Tracking No(s):
COC No: 660-64002-20573.1
Page: Page 1 of 2
Job #:

Due Date Requested:
TAT Requested (day(s)):
Analysis Requested:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grad)	Matrix (In-water, On-water, Other)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Special Instructions/Note:
WWS 5.5 SW (10/26/2015)	10/26/2015	1040	EQ	Water	MS	X	X	350.1, 351.2 SM4500_CL_E, SM4500_SO4_E 365.4 - Phosphorus, Total 3500_FE_D - Ferrous Iron 353.2_Pres - Nitrate Nitrite as N 366.2_Ortho - Orthophosphate 6010B - Dissolved Cu,Fe,Mn,Mg,K lab to filter 6010B - Total Cu,Fe,Mn,Mg,K 350.1 - Ammonia (as N) 6010B - Cu,Fe,Mn,Mg,K 351.2, 354.1, 365.1_Ortho, 365.4, 9038, 9251, Nitrogen, Total	* 4 - total vob bottles are in place of the RW 5.5 SW ONLY (RUIZ)
WWS 5.5 PU (10/26/2015)	10/26/2015	1040		Water					
WWS 5.25 SW (10/26/2015)	10/26/2015	1150		Water					
WWS 5.25 PU (10/26/2015)	10/26/2015	1150		Water					
WWS 4.5 SW (10/26/2015)	10/26/2015	1425		Water					
WWS 4.5 PU (10/26/2015)	10/26/2015	1425		Water					
WWS 3.5 SW (10/26/2015)	10/26/2015	1610		Water					
WWS 3.5 PU (10/26/2015)	10/26/2015	1610		Water					

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)
 Sample Disposal Return to C
 Special Instructions/QC Requirements:
 660-70053 Chain of Custody
 Loc: 660
 70053

Empty Kit Relinquished by: [Signature] Date: 10-19-15
Relinquished by: [Signature] Date: 10-27-2015 @ 0510
Relinquished by: [Signature] Date: 10-27-2015 @ 0605
Custody Seal Intact: A Yes A No
Custody Seal No.:
 Cooler Temperature(s) °C and Other Remarks: 2.6 12.7

Method of Shipment: Carrier
Received by: [Signature] Date: 10-27-15 @ 0520
Received by: [Signature] Date: 10/27/15 @ 607
Company: ARCADIS
Company: ARCADIS
Company: ARCADIS

Barcode: [Barcode]
Special Instructions/Note:
 * 4 - total vob bottles are in place of the RW 5.5 SW ONLY (RUIZ)

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

Chain of Custody Record

TestAmerica
 THE QUALITY CONNECTION

Client Information
 Client Contact: **Ms. KT Moran** Phone: **(813) 285-1322** Lab PIN: **Jones, Matt**
 Company: **ARCADIS U.S., Inc.** Address: **14025 Riveridge Drive Suite 600** City: **Tampa** State, Zip: **FL, 33637** Project Name: **SWFWMD Coastal Rivers** Site: **SSCOW#**

Analysis Requested
 Due Date Requested: **10/26/2015** TAT Requested (days): **10**
 PO #: **06562004.D003** WVD #: **65009055**
 Email: **kt.moran@arcadis-us.com** Project #: **65009055**
 Email: **mat.jones@testamerica.com** Lab PIN: **Jones, Matt**
 Email: **mat.jones@testamerica.com** Carrier Tracking No(s): **660-64002-20573.4**
 Page: **20/22** Page: **20/22** Job #:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Synthetic, Natural, Inorganic, Organic, etc.)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Special Instructions/Note:
WW515 SED (10/26/2015)	10/26/2015	1015	G	Solid	N2	X	X	360.1, 361.2 SM4500_Cl_E, SM4500_SO4_E 365.4 - Phosphorus, Total 3500_FE_D - Ferrous Iron 363.2_Pres - Nitrate Nitrite as N 365.2_Ortho - Orthophosphate 6010B - Dissolved Cu,Fe,Mn,Mg,K lab to filler 6010B - Total Cu,Fe,Mn,Mg,K 360.1 - Ammonia (as N) 6010B - Cu,Fe,Mn,Mg,K 361.2, 364.1, 365.1_Ortho, 365.4, 9038, 9251, Nitrogen, Total	
WW5125 SED (10/26/2015)	10/26/2015	1140	G	Solid	N2	X	X		
WW510 SED (10/26/2015)	10/26/2015	1340	G	Solid	N2	X	X		
WW4.5 SED (10/26/2015)	10/26/2015	1410	G	Solid	N2	X	X		
WW4.0 SED (10/26/2015)	10/26/2015	1500	G	Solid	N2	X	X		
WW3.5 SED (10/26/2015)	10/26/2015	1545	G	Solid	N2	X	X		

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

Deliverable Requested: I, II, III, IV, Other (specify): _____

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

Empty Kit Relinquished by: **KT Moran** Date: **10-19-15** Time: **0715** Method of Shipment: **Courier**

Relinquished by: **KT Moran** Date/Time: **10-27-2015 @ 0510** Company: **ARCADIS** Received by: **KT Moran** Date/Time: **10-27-15 @ 0530** Company: **TH TPA**

Relinquished by: **KT Moran** Date/Time: **10-21-15 @ 0605** Company: **TH TPA** Received by: **KT Moran** Date/Time: **10-22-15 @ 0605** Company: **TH TPA**

Relinquished by: **KT Moran** Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: **2.6/19.7 2.4/2.5**

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Tampa, FL 33634
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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler: RIK MATTHIAS	Lab Pk: Jones, Matt
Company: ARCADIS U.S., Inc.		Phone: (813) 285-1322	E-mail: matt.jones@testamericainc.com
Address: 14425 Riveredge Drive Suite 600		Carrier Tracking No(s):	
City: Tampa		COC No: 660-64001-20572-1	
State, Zip: FL, 33637		Page: Page 1 of 2	
Phone: 813-334-9068(Tel)		Job #: 308 #	
Email: kl.moran@arcadis-us.com		Preservation Codes:	
Project Name: SWFWMD Coastal Rivers		A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ambrhor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDTA Other:	
Site: SWFWMD Coastal Rivers		M - Hexane N - None O - Acetic Acid P - Na2CO3 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)	
Due Date Requested:		Analysis Requested	
TAT Requested (days):		Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/>	
PO #: 06562004.D003		Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/>	
WO #: 66009055		350.1, 351.2	
Project #: 66009055		SM4500_CL_E, SM4500_SO4_E	
SSO#: 66009055		365.4 - Phosphorus, Total	
Sample Identification		3500_FE_D - Ferrous Iron	
Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	353.2_Pres - Nitrate Nitrite as N
WW 2.5 SW (10/27/2015)	1035	G	365.2_Ortho - Orthophosphate
WW 2.5 PW (10/27/2015)	1035	G	6010B - Dissolved Cu,Fe,Mn,Mg,K lab to filter
WW 1.5 SW (10/27/2015)	1210		6010B - Total Cu,Fe,Mn,Mg,K
WW 1.5 PW (10/27/2015)	1210		350.1 - Ammonia (as N)
			6010B - Cu,Fe,Mn,Mg,K
			351.2, 354.1, 365.1_Ortho, 365.4, 4038, 4261, Nitrogen, Total
			Total Number of containers
			Special Instructions/Note:
660-70082 Chain of Custody		Loc: 660 70082	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<input type="checkbox"/> Non-hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by: John Jones		Date: 10-14-15	
Relinquished by: John Jones		Date: 10-28-2015 @ 0520	
Relinquished by: John Jones		Date: 10-28-15 @ 0605	
Relinquished by: John Jones		Date: 10-28-15 @ 0605	
Custody Seals Intact: <input type="checkbox"/> Custody Seal No.: <input type="checkbox"/>		Cooler Temperature(s) °C and Other Remarks: 2.9	

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

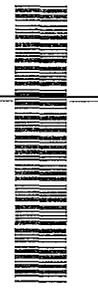
Chain of Custody Record

TestAmerica
1111 75th Ave, Suite 100, Tampa, FL 33634

Client Information
Client Contact: Ms. KT Moran
Company: ARCADIS U.S., Inc.
Address: 14025 Riveredge Drive Suite 600
City: Tampa
State, Zip: FL, 33637
Phone: 813-334-9068(Tel)
Email: kt.moran@arcadis-us.com
Project Name: SWFWMD Coastal Rivers
Site:
Due Date Requested:
TAT Requested (days):
PO #: 06562004.D003
VO #:
Project #: 66009055
SSOW#:
Lab P/N: Jones, Mat
Email: matt.jones@testamericainc.com
Carrier Tracking No(s):
COC No: 860-64002-20573 3
Page: 2 of 2
Job #:

Sample ID	Sample Date	Sample Time	Sample Type (G=Comp, G=grab)	Matrix (Synthetic, Natural, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note
WWS 3.0 SED (10/27/2015)	10-27-2015	0945	G	Solid	Yes	Yes	350.1, 361.2 SM4500_C1_E, SM4500_SO4_E 365.4 - Phosphorus, Total 3600_FE_D - Ferrous Iron 353.2_Pres - Nitrate Nitrite as N 365.2_Ortho - Orthophosphate 6010B - Dissolved Cu,Fe,Mn,Mg,K lab to filter 6010B - Total Cu,Fe,Mn,Mg,K 350.1 - Ammonia (as N) 6010B - Cu,Fe,Mn,Mg,K 351.2, 354.1, 365.1_Ortho, 365.4, 9038, 8251, Nitrogen, Total		
WWS 2.5 SED (10/27/2015)	10/27/2015	1015	G	Solid	Yes	Yes			
WWS 2.0 SED (10/27/2015)	10/27/2015	1115	G	Solid	Yes	Yes			
WWS 1.5 SED (10/27/2015)	10/27/2015	1140	G	Solid	Yes	Yes			
WWS 1.0 SED (10/27/2015)	10/27/2015	1250	G	Solid	Yes	Yes			

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (Specify):
 Empty Kit Relinquished by: *KT Moran* Date: *10-19-15* Time: *0715* Method of Shipment: *courier*
 Relinquished by: *Ric Williams* Date/Time: *10-28-2015 @ 0520* Company: *ARCADIS* Received by: *KT Moran* Date/Time: *10-28-15 @ 0520* Company: *ARCADIS*
 Relinquished by: *KT Moran* Date/Time: *10-28-15 @ 0605* Company: *ARCADIS* Received by: *KT Moran* Date/Time: *10-28-15 @ 0605* Company: *ARCADIS*
 Relinquished by: *KT Moran* Date/Time: *10-28-15 @ 0605* Company: *ARCADIS* Received by: *KT Moran* Date/Time: *10-28-15 @ 0605* Company: *ARCADIS*
 Custody Seals Intact: Yes No Custody Seal No.:
 Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record

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

Client Information (Sub Contract Lab)		Lab P/N:	Bechtold, Chad																		
Shipping/Receiving		E-Mail:	chad.bechtold@testamericainc.com																		
Company:		TestAmerica Laboratories, Inc.																			
Address:		3355 McLemore Drive,																			
City:		Pensacola																			
State, Zip:		FL, 32514																			
Phone:		850-474-1001 (Tel) 850-478-2671 (Fax)																			
Email:																					
Project Name:		SWFWMD Coastal Rivers																			
Site:																					
Due Date Requested:		8/25/2015																			
TAT Requested (days):		7																			
PO #:																					
WO #:																					
Project #:		66009055																			
SSOW#:																					
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater)	Field Filtered Sample (Yes or No)	Perch/MS/MSD (Yes or No)	350_1/ Ammonia (Hold)	350_FF_D/ Iron, Ferrus	353_2_Pres (Hold)	SM4500_SO4_E (Hold)	SM4500_CL_E (Hold)	351_2/351_2 Prep Total Kjeldahl Nitrogen (Hold)	Nitrogen, Total/ Total Nitrogen (Hold)	SM3500_FE_B/D/ LEACH (Hold)	9038/D/ LEACH Sulfate (Hold)	9251/D/ LEACH Chloride (Hold)	350_1/D/ LEACH Ammonia (Hold)	353_2_Pres/D/ LEACH (Hold)	354_1/D/ LEACH Nitrate/Nitrite (Hold)	Total Number of Containers	Special Instructions/Note:
CZT10SSSW (2015 AUG 12) (660-68566-1)	8/12/15	13:26 Eastern	Water	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	4	
CZT10S3PW (2015 AUG 12) (660-68566-2)	8/12/15	15:00 Eastern	Water	Water			X	X	X	X	X	X	X	X	X	X	X	X	X	4	
CZT10S3SED0-8 (2015 AUG 12) (660-68566-3)	8/12/15	16:00 Eastern	Solid	Solid			X	X	X	X	X	X	X	X	X	X	X	X	X	3	
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify)</p> <p>Empty Kit Relinquished by: _____ Date: _____</p> <p>Relinquished by: <i>Mark L</i> Date/Time: 08/13/15 1600 Company: <i>TA</i></p> <p>Relinquished by: _____ Date/Time: _____ Company: _____</p> <p>Relinquished by: _____ Date/Time: _____ Company: _____</p> <p>Custody Seals Intact: _____ Custody Seal No.: _____</p> <p>Δ Yes Δ No</p>																					
<p>Analysis Requested</p> <p>350_1/ Ammonia (Hold) X</p> <p>350_FF_D/ Iron, Ferrus X</p> <p>353_2_Pres (Hold) X</p> <p>SM4500_SO4_E (Hold) X</p> <p>SM4500_CL_E (Hold) X</p> <p>351_2/351_2 Prep Total Kjeldahl Nitrogen (Hold) X</p> <p>Nitrogen, Total/ Total Nitrogen (Hold) X</p> <p>SM3500_FE_B/D/ LEACH (Hold) X</p> <p>9038/D/ LEACH Sulfate (Hold) X</p> <p>9251/D/ LEACH Chloride (Hold) X</p> <p>350_1/D/ LEACH Ammonia (Hold) X</p> <p>353_2_Pres/D/ LEACH (Hold) X</p> <p>354_1/D/ LEACH Nitrate/Nitrite (Hold) X</p>																					
<p>Preservation Codes:</p> <p>A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:</p> <p>M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)</p>																					
<p>Special Instructions/Note:</p> <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements:</p> <p>Method of shipment: _____</p> <p>Received by: <i>Mark L</i> Date/Time: 8/14/15 0917 Company: _____</p> <p>Received by: _____ Date/Time: _____ Company: _____</p> <p>Received by: _____ Date/Time: _____ Company: _____</p> <p>Cooler Temperature(s) °C and Other Remarks: <i>0.0°C, 0.0°C, 20°C</i></p>																					



Chain of Custody Record

Client Information (Sub Contract Lab)		Lab PIV: Bechtold, Chad		Carrier Tracking No(s):						
Client Contact: Shipping/Receiving		E-Mail: chad.bechtold@testamericainc.com		COC No: 660-80550-2						
Company: TestAmerica Laboratories, Inc.		Analysis Requested		Page: Page 2 of 2						
Address: 3355 McLemore Drive, Pensacola, FL, 32514		Due Date Requested: 8/25/2015		Job #: 660-68566-1						
Phone: 850-474-1001 (Tel) 850-478-2671 (Fax)		TAT Requested (days):		Preservation Codes:						
Email:		PO #:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDA Other:						
Project Name: SWFWMD Coastal Rivers		WO #:		Total Number of Containers						
Site:		Project #: 66009055		Special Instructions/Note:						
		SSOW#:								
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastefall, BT=Tissue, AD=)	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	365_1_Ortho/DI_LEACH Orthophosphate (Hold)	365_4/366_Prep Phosphorus, Total (Hold)	6010B/3050B Cu,Fe,Mn,Mg,K (Hold)	Nitrate_Calc/DI_Leach_AC (Hold)
CZT10S3SW (2015 AUG 12) (660-68566-1)	8/12/15	13:26 Eastern	Water	Water	X					
CZT10S3PW (2015 AUG 12) (660-68566-2)	8/12/15	15:00 Eastern	Water	Water			X	X		
CZT10S3SEDO-8 (2015 AUG 12) (660-68566-3)	8/12/15	16:00 Eastern	Solid	Solid			X	X		
<p>Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)</p>										
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p>										
<p>Special Instructions/QC Requirements:</p>										
<p>Empty Kit Relinquished by: _____ Date: _____ Method of shipment:</p>										
<p>Relinquished by: <i>Bank</i> Date/Time: 08/12/15 1600 Company: TA-704</p>										
<p>Relinquished by: _____ Date/Time: _____ Company: _____</p>										
<p>Relinquished by: _____ Date/Time: _____ Company: _____</p>										
<p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: <i>0.0°C JLG</i></p>										



Chain of Custody Record

Client Information (Sub Contract Lab)
 Client Contact: Shipping/Receiving
 Lab PII: Bechtold, Chad
 E-Mail: chad.bechtold@testamericainc.com
 Phone: [Blank]
 Carrier Tracking No(s): [Blank]
 COC No: 660-80586-1
 Page: Page 1 of 2
 Job #: 660-68566-1

Company: TestAmerica Laboratories, Inc.
 Address: 3355 McLemore Drive, Pensacola, FL 32514
 Phone: 850-474-1001 (Tel) 850-478-2671 (Fax)
 Email: [Blank]
 Project Name: SWFWMD Coastal Rivers
 Project #: 66009055
 SSOW#: [Blank]
 Due Date Requested: 8/26/2015
 TAT Requested (days): [Blank]
 PO #: [Blank]
 WO #: [Blank]
 Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastewater)	Field Filtered Sample (Yes or No)	Perform MSD (Yes or No)	353.2 Pres (Hold)	350.1f Ammonia (Hold)	3500 FE_D/Iron, Ferrous	SM4500 SO4_E (Hold)	SM4500 Cl_E (Hold)	351.2/351.2 Prep Total Kjeldahl Nitrogen (Hold)	Nitrogen, Total/ Total Nitrogen (Hold)	SM3500 FE_B/DI LEACH (Hold)	9038/DI LEACH Sulfate (Hold)	9261/DI LEACH Chloride (Hold)	Nitrate_Calc/DI Leach_AC	350.1/DI LEACH Ammonia (Hold)	353.2 Pres/DI LEACH	Total Number of Containers	Special Instructions/Note:
WWWT100SSW (2015 AUG 13) (660-68601-1)	8/13/15	11:30 Eastern	Water	Water	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4		
WWWT100SPW (2015 AUG 13) (660-68601-2)	8/13/15	11:00 Eastern	Water	Water	X	X	X	X	X	X	X	X	X	X	X	X	X	X	4		
WWWT10S3SED0-.8 (2015 AUG 12) (660-68601-3)	8/13/15	09:55 Eastern	Solid	Solid	X	X	X	X	X	X	X	X	X	X	X	X	X	X	3		

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify)
 Empty Kit Relinquished by: [Signature]
 Relinquished by: [Signature]
 Relinquished by: [Signature]
 Relinquished by: [Signature]
 Date: 8/14/15 1700
 Date/Time: 8/14/15 1700
 Date/Time: 8/15/15 0914
 Date/Time: [Blank]
 Date/Time: [Blank]
 Date/Time: [Blank]
 Company: TA TPA
 Company: TA
 Company: TA
 Company: TA
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For [Blank] Months
 Special Instructions/QC Requirements:
 Cooler Temperature(s) °C and Other Remarks: 11°C 31°C 12-5

Chain of Custody Record

Client Information (Sub Contract Lab)		Lab P/M: Bechtold, Chad		Carrier Tracking No(s):							
Client Contact: Shipping/Receiving		E-Mail: chad.bechtold@testamericainc.com		COC No: 660-80586-2							
Company: TestAmerica Laboratories, Inc.		Due Date Requested: 8/26/2015		Page: Page 2 of 2							
Address: 3355 McLemore Drive, Pensacola, FL 32514		TAT Requested (days):		Job #: 660-88566-1							
Phone: 850-474-1001 (Tel) 850-478-2671 (Fax)		PO #:		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify) Other:							
Project Name: SWFWMD Coastal Rivers		Project #: 66009055		Total Number of Containers							
Site:		SSOW#:		Special Instructions/Note:							
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=seab/soil)	Field Filtered Sample (Yes or No)	Perform MSD (Yes or No)	354.1/D, LEACH Nitrate, Nitrite (Hold)	366.1, Ortho/DL LEACH Orthophosphate	366.4/366 Prep Phosphorus, Total (Hold)	6010B/3060B Cu, Fe, Mn, Mg, K (Hold)	Analysis Requested
WWWT100SSW (2015 AUG 13) (660-88601-1)	8/13/15	11:30 Eastern	Water	Water	X	X					
WWWT100SPW (2015 AUG 13) (660-88601-2)	8/13/15	11:00 Eastern	Water	Water	X	X					
WWWT100SSED0-8 (2015 AUG 12) (660-88601-3)	8/13/15	09:55 Eastern	Solid	Solid	X	X					
<p>Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)</p> <p>Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____</p> <p>Relinquished by: <i>Krist. Smith</i> Date: 8.14.15 Time: 1700 Company: TA TPA Relinquished by: _____ Date: _____ Time: _____ Company: _____ Relinquished by: _____ Date: _____ Time: _____ Company: _____</p> <p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.: _____ Cooler Temperature(s) $^{\circ}$C and Other Remarks: 31.6 $^{\circ}$C 12-5</p>											



Chain of Custody Record



Client Information (Sub Contract Lab)
 Company: TestAmerica Laboratories, Inc.
 Address: 3355 McLemore Drive, Pensacola, FL 32514
 Phone: 850-474-1001 (Tel) 850-478-2671 (Fax)
 Email: matt.jones@testamericainc.com

Carrier Tracking No(s): 660-82276.1
Page: Page 1 of 2
Job #: 660-69823-1

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, B=BTX-tissue, A=air)	Field Filtered Sample (Yes or No)	Performance/MSD (Yes or No)	Analysis Requested										Special Instructions/Note:						
							Nitrogen, Total Nitrogen	9251/DL LEACH Chloride	354_1/DL LEACH Nitrate/Nitrite	365_1_Ortho/DL LEACH Orthophosphate	9038/DL LEACH Sulfate	Nitrate, Calc/DL Leach AC	350_1/DL LEACH Ammonia	351_2/351_2 Prep Total Kjeldahl Nitrogen	353_2_Pres/DL LEACH	356_4/356_5 Prep Phosphorus, Total		6010B/3050B Cu,Fe,Mn,Mg,K	353_2_Pres	350_1/Ammonia	Total Number of Containers		
CZ 0.5 SED (10/14/2015) (660-69823-1)	10/14/15	10:00 Eastern	Solid	Solid	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CZ 0.5 SW (10/14/2015) (660-69823-2)	10/14/15	10:15 Eastern	Water	Water	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CZ 0.5 PW (10/14/2015) (660-69823-3)	10/14/15	10:15 Eastern	Water	Water	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CZ 1.0 SED (10/14/2015) (660-69823-4)	10/14/15	11:51 Eastern	Solid	Solid	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CZ 1.5 SED (10/14/2015) (660-69823-5)	10/14/15	12:01 Eastern	Solid	Solid	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CZ 1.5 SW (10/14/2015) (660-69823-6)	10/14/15	12:48 Eastern	Water	Water	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CZ 1.5 PW (10/14/2015) (660-69823-7)	10/14/15	12:48 Eastern	Water	Water	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CZ 2.0 SED (10/14/2015) (660-69823-8)	10/14/15	12:50 Eastern	Solid	Solid	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CZ 2.5 SED (10/14/2015) (660-69823-9)	10/14/15	14:30 Eastern	Solid	Solid	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CZ 2.5 SW (10/14/2015) (660-69823-10)	10/14/15	14:45 Eastern	Water	Water	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CZ 2.5 PW (10/14/2015) (660-69823-11)	10/14/15	14:45 Eastern	Water	Water	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify)
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *[Signature]* Date/Time: 10-15-15 1700 Company: TA
 Relinquished by: *[Signature]* Date/Time: _____ Company: _____
 Relinquished by: *[Signature]* Date/Time: 10-16-15 10:09 Company: _____
 Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks: 0.0, 1.2, 1.0, 1.2 °C 1RB

Chain of Custody Record

Client Information (Sub Contract Lab)
 Shipping/Receiving
 Company: TestAmerica Laboratories, Inc.
 Address: 3355 McLemore Drive, Pensacola, FL 32514
 Phone: 850-474-1001 (Tel) 850-478-2671 (Fax)
 Email: SWFVMD Coastal Rivers
 Site:

Lab PVI: Jones, Matt
 E-Mail: matt.jones@testamericainc.com
 Carrier Tracking No(s): 660-82276.2
 Page: Page 2 of 2
 Job #: 660-69823-1

Due Date Requested: 10/27/2015
 TAT Requested (days):
 PO #:
 WO #:
 Project #: 66009055
 SOW#:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue Acid)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SM4600_CrE	SM4600_SO4E	366.4/366_Prep	Analysis Requested	Preservation Codes:	Total Number of Containers	Special Instructions/Note:
CZ 0.5 SED (10/14/2015) (660-69823-1)	10/14/15	10:00 Eastern	Solid	Solid	X	X					A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	3	
CZ 0.5 SW (10/14/2015) (660-69823-2)	10/14/15	10:15 Eastern	Water	Water	X	X					M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)	5	
CZ 0.5 PW (10/14/2015) (660-69823-3)	10/14/15	10:15 Eastern	Water	Water	X	X						5	
CZ 1.0 SED (10/14/2015) (660-69823-4)	10/14/15	11:51 Eastern	Solid	Solid	X	X						3	
CZ 1.5 SED (10/14/2015) (660-69823-5)	10/14/15	12:01 Eastern	Solid	Solid	X	X						3	
CZ 1.5 SW (10/14/2015) (660-69823-6)	10/14/15	12:48 Eastern	Water	Water	X	X						5	
CZ 1.5 PW (10/14/2015) (660-69823-7)	10/14/15	12:48 Eastern	Water	Water	X	X						5	
CZ 2.0 SED (10/14/2015) (660-69823-8)	10/14/15	12:50 Eastern	Solid	Solid	X	X						3	
CZ 2.5 SED (10/14/2015) (660-69823-9)	10/14/15	14:30 Eastern	Solid	Solid	X	X						3	
CZ 2.5 SW (10/14/2015) (660-69823-10)	10/14/15	14:45 Eastern	Water	Water	X	X						5	
CZ 2.5 PW (10/14/2015) (660-69823-11)	10/14/15	14:45 Eastern	Water	Water	X	X						5	

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify)
 Empty Kit Relinquished by:
 Relinquished by: [Signature]
 Relinquished by: [Signature]
 Relinquished by: [Signature]

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:
 Date: 10-15-15 1700
 Date/Time: 10-15-15 10:09
 Date/Time: 10-16-15 10:09
 Date/Time: 10-16-15 10:09
 Cooler Temperature(s) °C and Other Remarks: 0.07, 1.02, 1.0, 1.2 °C / 1.05



Chain of Custody Record



THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)

Lab P.M.: Gudnason, Haukur M
 E-Mail: haukur.gudnason@testamericainc.com

Carrier Tracking No(s): 660-82340-1
 Page: Page 1 of 3
 Job #: 660-69879-1

Company: TestAmerica Laboratories, Inc.
 Address: 3355 McLemore Drive,
 City: Pensacola
 State, Zip: FL, 32514
 Phone: 850-474-1001 (Tel) 850-478-2671 (Fax)
 Email:

Project Name: SWFWMD Coastal Rivers
 Site:

Due Date Requested: 10/28/2015
 TAT Requested (days):
 PO #:
 WO #:
 Project #: 66009055
 SSONW#:

Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil)	Field Filtered Sample (Yes or No)	Petroleum MS/MSD (Yes or No)	350.1/ Ammonia	353.2/ Pres	3500_Fe_D/ Iron, Ferrous	Nitrogen Total/ Total Nitrogen	SM4500_Cl_E	SM4500_SO4_E	354.2/351.2/ Prep Total Kjeldahl Nitrogen	355.4/356 Prep Nitrate, Calc/D, Leach AC	925/1/1 LEACH Chloride	355.4/356 Prep Phosphorus, Total	355.1, Ortho/D, LEACH Orthophosphate	9038/DL LEACH Sulfate	Total Number of Containers	Special Instructions/Note:
CZ 6.5 SW (10/16/2015) (660-69879-1)	10/16/15	09:25 Eastern	Water	Water	X	X	X	X	X	X	X	X	X	X	X	X	X	5		
CZ 6.5 PW (10/16/2015) (660-69879-2)	10/16/15	09:25 Eastern	Water	Water	X	X	X	X	X	X	X	X	X	X	X	X	X	5		
CZ 7.5 SW (10/16/2015) (660-69879-3)	10/16/15	11:20 Eastern	Water	Water	X	X	X	X	X	X	X	X	X	X	X	X	X	5		
CZ 7.5 PW (10/16/2015) (660-69879-4)	10/16/15	11:20 Eastern	Water	Water	X	X	X	X	X	X	X	X	X	X	X	X	X	5		
CZ 8.5 SW (10/16/2015) (660-69879-5)	10/16/15	14:05 Eastern	Water	Water	X	X	X	X	X	X	X	X	X	X	X	X	X	5		
CZ 8.5 PW (10/16/2015) (660-69879-6)	10/16/15	14:05 Eastern	Water	Water	X	X	X	X	X	X	X	X	X	X	X	X	X	5		
CZ 6.5 SED (10/16/2015) (660-69879-7)	10/16/15	09:05 Eastern	Solid	Solid					X	X			X	X	X	X	X	3		
CZ 7.0 SED (10/16/2015) (660-69879-8)	10/16/15	10:10 Eastern	Solid	Solid					X	X			X	X	X	X	X	3		
CZ 7.5 SED (10/16/2015) (660-69879-9)	10/16/15	10:50 Eastern	Solid	Solid					X	X			X	X	X	X	X	3		
CZ 8.0 SED (10/16/2015) (660-69879-10)	10/16/15	12:25 Eastern	Solid	Solid					X	X			X	X	X	X	X	3		
CZ 8.5 SED (10/16/2015) (660-69879-11)	10/16/15	13:45 Eastern	Solid	Solid					X	X			X	X	X	X	X	3		

Possible Hazard Identification

Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify)

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Time: _____

Relinquished by: _____ Date/Time: 10/19/15 11:00 Company: EA-192A
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No

Relinquished by: _____ Date/Time: 10/20/15 10:21 Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks: 9°C 18°C 07°C



Chain of Custody Record

Client Contact: Shipping/Receiving
 Company: TestAmerica Laboratories, Inc.
 Address: 3355 McLemore Drive, Pensacola, FL 32514
 Phone: 850-474-1001 (Tel) 850-478-2671 (Fax)
 Email: [Redacted]
 Project Name: SWFWMD Coastal Rivers
 Site: [Redacted]

Lab PM: Gudnason, Haukur M
 E-Mail: haukur.gudnason@testamericainc.com
 Due Date Requested: 10/28/2015
 TAT Requested (days): [Redacted]

PO #: [Redacted]
 WO #: [Redacted]
 Project #: 66009055
 SOW#: [Redacted]

Carrier Tracking No(s): 660-82340-2
 Page: Page 2 of 3
 Job #: 660-69879-1

Analysis Requested

601B/3050B Cu, Fe, Mn, Mg, K	560_1/DL LEACH Ammonia	563_2_Pres/DL LEACH	564_1/DL LEACH Nitrate, Nitrite	5	
Platform MS/MBD (Yes or No)					
Field Filtered Sample (Yes or No)					

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, ET=Tissue, A=Air)	Preservation Code:	Total Number of Containers	Special Instructions/Note:
CZ 6.5 SW (10/16/2015) (660-69879-1)	10/16/15	09:25 Eastern	Water	Water		5	
CZ 6.5 PW (10/16/2015) (660-69879-2)	10/16/15	09:25 Eastern	Water	Water		5	
CZ 7.5 SW (10/16/2015) (660-69879-3)	10/16/15	11:20 Eastern	Water	Water		5	
CZ 7.5 PW (10/16/2015) (660-69879-4)	10/16/15	11:20 Eastern	Water	Water		5	
CZ 8.5 SW (10/16/2015) (660-69879-5)	10/16/15	14:05 Eastern	Water	Water		5	
CZ 8.5 PW (10/16/2015) (660-69879-6)	10/16/15	14:05 Eastern	Water	Water		5	
CZ 6.5 SED (10/16/2015) (660-69879-7)	10/16/15	09:05 Eastern	Solid	Solid		3	
CZ 7.0 SED (10/16/2015) (660-69879-8)	10/16/15	10:10 Eastern	Solid	Solid		3	
CZ 7.5 SED (10/16/2015) (660-69879-9)	10/16/15	10:50 Eastern	Solid	Solid		3	
CZ 8.0 SED (10/16/2015) (660-69879-10)	10/16/15	12:25 Eastern	Solid	Solid		3	
CZ 8.5 SED (10/16/2015) (660-69879-11)	10/16/15	13:45 Eastern	Solid	Solid		3	

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

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

Empty Kit Relinquished by: [Signature]
 Relinquished by: [Signature]
 Relinquished by: [Signature]
 Date/Time: 10/15/15 11:00
 Date/Time: [Redacted]
 Date/Time: [Redacted]
 Date/Time: [Redacted]
 Company: [Redacted]
 Company: [Redacted]
 Company: [Redacted]
 Company: [Redacted]

Custody Seal No.: [Redacted]
 Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks: [Redacted]

Chain of Custody Record

Client Information (Sub Contract Lab) Lab PM: Gudnason, Haukur M Phone: haukur.gudnason@testamericainc.com E-Mail: haukur.gudnason@testamericainc.com		Carrier Tracking No(s): 660-82340.4 COC No: 660-82340.4 Page: 4 of 3 Job #: 660-69879-1					
Company: TestAmerica Laboratories, Inc. Address: 3355 McLemore Drive, City: Pensacola State, Zip: FL, 32514 Phone: 850-474-1001 (Tel) 850-478-2671 (Fax) Email:		Analysis Requested Due Date Requested: 10/28/2015 TAT Requested (days): PO #: WO #: Project #: 66009055 SSO#:					
Sample Identification - Client ID (Lab ID) Project Name: SWFWMID Coastal Rivers Site:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)					
Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No)		Special Instructions/Note:					
Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=water/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of Containers
10/16/15	15:35 Eastern	Solid	Solid	X	X	6010B/3050B Cu, Fe, Mn, Mg, K 350.1/D LEACH Ammonia 352.2 Pres/D LEACH 354.1/D LEACH Nitrate, Nitrite	3
10/16/15	16:00 Eastern	Solid	Solid	X	X		3
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Empty Kit Relinquished by:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/Requirements:					
Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by:		Date/Time: 10/19/15 11:00 Date/Time: Date/Time:					
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 9°C 1.80c 0.70c					





Chain of Custody Record

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

Client Information (Sub Contract Lab)		Lab P/N: Gudnason, Haukur M		Carrier Tracking No(s):		COC No: 660-82340.1		
Shipping/Receiving		Phone:		E-Mail: haukur.gudnason@testamericainc.com		Page: Page 1 of 3		
Company: TestAmerica Laboratories, Inc.		Due Date Requested: 10/28/2015		Analysis Requested		Job #: 660-69879-1		
Address: 3355 McLemore Drive, Pensacola, FL 32514		TAT Requested (days):		Field Filtered Sample (Yes or No)		Preservation Codes:		
Phone: 850-474-1001 (Tel) 850-478-2671 (Fax)		PO #:		Perform MS/MSD (Yes or No)		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - MeOH F - Na2SO3 G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		
Email:		WO #:		360.1/ Ammonia		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)		
Project Name: SWF/WMD Coastal Rivers		Project #: 66009055		360.2/ Pres		Total Number of Containers		
Site:		SSOW#:		Nitrogen, Total/ Total Nitrogen		Special Instructions/Note:		
Sample Identification - Client ID (Lab ID)		Sample Date		360.3/ Fe, D/ Iron, Ferrous				
CZ 6.5 SW (10/16/2015) (660-69879-1)	10/16/15	09:25 Eastern	Water	361.2/361.2 Prep Total Kjeldahl Nitrogen	925/DI_LEACH Chloride	365.4/365 Prep Phosphorus, Total	366.1_Ortho/DI_LEACH Orthophosphate	9038/DI_LEACH Sulfate
CZ 6.5 PW (10/16/2015) (660-69879-2)	10/16/15	09:25 Eastern	Water	SM4500_S04_E	Nitrate_Calc/DI_Leach_AC			
CZ 7.5 SW (10/16/2015) (660-69879-3)	10/16/15	11:20 Eastern	Water	SM4500_C1_E	365.4/365 Prep			
CZ 7.5 PW (10/16/2015) (660-69879-4)	10/16/15	11:20 Eastern	Water					
CZ 8.5 SW (10/16/2015) (660-69879-5)	10/16/15	14:05 Eastern	Water					
CZ 8.5 PW (10/16/2015) (660-69879-6)	10/16/15	14:05 Eastern	Water					
CZ 6.5 SED (10/16/2015) (660-69879-7)	10/16/15	09:05 Eastern	Solid					
CZ 7.0 SED (10/16/2015) (660-69879-8)	10/16/15	10:10 Eastern	Solid					
CZ 7.5 SED (10/16/2015) (660-69879-9)	10/16/15	10:50 Eastern	Solid					
CZ 8.0 SED (10/16/2015) (660-69879-10)	10/16/15	12:25 Eastern	Solid					
CZ 8.5 SED (10/16/2015) (660-69879-11)	10/16/15	13:45 Eastern	Solid					
Possible Hazard Identification								
Unconfirmed								
Deliverable Requested: I, II, III, IV, Other (specify)								Archive For _____ Months
Empty Kit Relinquished by:								Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/>
Relinquished by:								Special Instructions/QC Requirements:
Relinquished by:								Method of Shipment:
Relinquished by:								Date/Time: 10/28/15 11:00
Relinquished by:								Date/Time: 10/20/15 1021
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No								Date/Time: _____
Custody Seal No.:								Date/Time: _____
Cooler Temperature(s) °C and Other Remarks: 19°C 18°C 07°C								Date/Time: _____



Chain of Custody Record

Client Information (Sub Contract Lab)		Lab P/N: Gudnason, Haukur M	Carrier Tracking No(s):	COC No: 660-82340-2
Shipping/Receiving		E-Mail: haukur.gudnason@testamericainc.com		Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc.		Project #: 66009055		Job #: 660-69879-1
Address: 3355 McLemore Drive, Pensacola FL, 32514		SSOW#:		
City: Pensacola State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)				
Email:				
Project Name: SWFWMD Coastal Rivers				
Site:				
Due Date Requested: 10/28/2015				
TAT Requested (days):				
PO #:				
WO #:				
Sample Identification - Client ID (Lab ID)				
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, BT=TISSUE, A=AIR)	Preservation Code:
10/16/15	09:25 Eastern	Water	Water	Water
10/16/15	09:25 Eastern	Water	Water	Water
10/16/15	11:20 Eastern	Water	Water	Water
10/16/15	11:20 Eastern	Water	Water	Water
10/16/15	14:05 Eastern	Water	Water	Water
10/16/15	14:05 Eastern	Water	Water	Water
10/16/15	09:05 Eastern	Solid	Solid	Solid
10/16/15	10:10 Eastern	Solid	Solid	Solid
10/16/15	10:50 Eastern	Solid	Solid	Solid
10/16/15	12:25 Eastern	Solid	Solid	Solid
10/16/15	13:45 Eastern	Solid	Solid	Solid
Possible Hazard Identification				
Unconfirmed				
Deliverable Requested: I, II, III, IV, Other (specify)				
Empty Kit Relinquished by:				
Relinquished by:				
Relinquished by:				
Relinquished by:				
Custody Seals Intact: Δ Yes Δ No				
Custody Seal No.:				

Received by: *[Signature]* Date: 12/3/15 11:00
 Company: TAT/PA
 Received by: *[Signature]* Date/Time: 10/28/15 10:21
 Company: *[Signature]*
 Received by: *[Signature]* Date/Time: 10/28/15 10:21
 Company: *[Signature]*
 Received by: *[Signature]* Date/Time: 10/28/15 10:21
 Company: *[Signature]*
 Cooler Temperature(s) °C and Other Remarks: 19°C 18°C 17°C

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

Chain of Custody Record



Client Information (Sub Contract Lab)		Smaller:		Carrier Tracking No(s):		COC No:	
Client Contact: Gudnason, Haukur M		Lab PM: Gudnason, Haukur M		660-82403.2		660-82403.2	
Shipping/Receiving		E-Mail: haukur.gudnason@testamericainc.com		Page: Page 2 of 2		Job #: 660-68566-1	
Company: TestAmerica Laboratories, Inc.		Due Date Requested: 10/30/2015		Analysis Requested		Preservation Codes:	
Address: 3355 McCl. more Drive,		TAT Requested (days):		350.1/DL LEACH Ammonia		A - HCL	
City: Pensacola		PO #:		353.2/Pres/DL LEACH		M - Hexane	
State, Zip: FL, 32514		WO #:		354.1/DL LEACH Nitrate/Nitrite		N - None	
Phone: 850-474-1001 (Tel) 850-478-2671 (Fax)		Project #: 66009055		Nitrate Calc/DL Leach AC		O - AsNaO2	
Email:		SSOW#:		Field Filtered Sample (Yes or No)		P - Na2O4S	
Project Name: SWFWMD Coastal Rivers		Sample Date		Field MS/MSD (Yes or No)		Q - Na2SO3	
Site:		Sample Time		Total Number of Containers		R - Na2S2O3	
Sample Identification - Client ID (Lab ID)		Sample Type (C=comp, G=grab)		Total Number of Containers		S - H2SO4	
HM 10.5 SW (10/19/2015) (660-69893-1)		Water		5		T - TSP Dodecahydrate	
HM 10.5 PW (10/19/2015) (660-69893-2)		Water		5		U - Acetone	
HM 9.5 SW (10/19/2015) (660-69893-3)		Water		5		V - MCAA	
HM 9.5 PW (10/19/2015) (660-69893-4)		Water		5		W - ph 4-5	
HM 10.5 SED (10/19/2015) (660-69893-5)		Solid		3		X - EDTA	
HM 10.0 SED (10/19/2015) (660-69893-6)		Solid		3		L - EDA	
HM 9.5 SED (10/19/2015) (660-69893-7)		Solid		3		Other:	
HM 9.0 SED (10/19/2015) (660-69893-8)		Solid		3		Special Instructions/Note:	
<p>Possible Hazard Identification</p> <p>Unconfirmed</p> <p>Deliverable Requested: I, II, III, IV, Other (specify)</p>							
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements:</p>							
Empty Kit Relinquished by:		Date:		Method of Shipment:		Time:	
Relinquished by: <i>[Signature]</i>		Date/Time: 10/23/15 11:00		Received by: <i>[Signature]</i>		Date/Time: 10/24/15 09:56	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 0.0°C, 0.8°C, 12.0°C		Company	

Chain of Custody Record

Client Information (Sub Contract Lab)
 Client Contact: Gudnason, Haukur M
 Shipping/Receiving: haukur.gudnason@testamericainc.com
 Company: TestAmerica Laboratories, Inc.
 Address: 3355 McLemore Drive, Pensacola, FL 32514
 Phone: 850-474-1001 (Tel) 850-478-2671 (Fax)
 Email: [Redacted]
 Project Name: SWFWMD Coastal Rivers
 Site: [Redacted]

Analysis Requested
 Due Date Requested: 10/29/2015
 TAT Requested (days): [Redacted]
 PO #: [Redacted]
 WO #: [Redacted]
 Project #: 66009055
 SSOW#: [Redacted]

Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	3600_FE_D/Iron, Ferrus	363_2_Pres	SM4500_CL_E	SM4500_SO4_E	366_4/366_Prep	Total Number of Containers	Special Instructions/Note:
WW5.5 SED (10/26/2015) (660-70053-1)	10/26/15	10:15 Eastern	Solid	Solid	X	X						3	
WW5.25 SED (10/26/2015) (660-70053-2)	10/26/15	11:40 Eastern	Solid	Solid	X	X						3	
WW5.0 SED (10/26/2015) (660-70053-3)	10/26/15	13:40 Eastern	Solid	Solid	X	X						3	
WW4.5 SED (10/26/2015) (660-70053-4)	10/26/15	14:10 Eastern	Solid	Solid	X	X						3	
WW4.0 SED (10/26/2015) (660-70053-5)	10/26/15	15:00 Eastern	Solid	Solid	X	X						3	
WW3.5 SED (10/26/2015) (660-70053-6)	10/26/15	15:45 Eastern	Solid	Solid	X	X						3	
WW5.5 SW (10/26/2015) (660-70053-7)	10/26/15	10:40 Eastern	Water	Water	X	X	X	X	X	X	X	5	
WW5.5 PW (10/26/2015) (660-70053-8)	10/26/15	10:40 Eastern	Water	Water	X	X	X	X	X	X	X	5	
WW5.25 SW (10/26/2015) (660-70053-9)	10/26/15	11:50 Eastern	Water	Water	X	X	X	X	X	X	X	5	
WW5.25 PW (10/26/2015) (660-70053-10)	10/26/15	11:50 Eastern	Water	Water	X	X	X	X	X	X	X	5	
WW4.5 SW (10/26/2015) (660-70053-11)	10/26/15	14:25 Eastern	Water	Water	X	X	X	X	X	X	X	5	

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: 10/23/15 15:50
 Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: _____
 Custody Seal No.: _____
 Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks: [Redacted]

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 68566
List Number: 1
Creator: Conner, Keaton

List Source: TestAmerica Tampa

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	-3 sample not designated for specific analyses
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.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 68566
List Number: 3
Creator: Perez, Trina M

List Source: TestAmerica Pensacola
List Creation: 08/14/15 10:08 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	0.0°C IR-6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 68566
List Number: 4
Creator: Perez, Trina M

List Source: TestAmerica Pensacola
List Creation: 08/14/15 10:09 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	0.0°C IR-6
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: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 68566

List Number: 2

Creator: Black, Bryan

List Source: TestAmerica Tallahassee

List Creation: 08/14/15 09:20 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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 <math><6\text{mm}</math> (1/4").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 68601

List Number: 1

Creator: Conner, Keaton

List Source: TestAmerica Tampa

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 68601
List Number: 2
Creator: Benforado, Jessica L

List Source: TestAmerica Pensacola
List Creation: 08/15/15 09:58 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	3.1°C IR-5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 68601
List Number: 3
Creator: Benforado, Jessica L

List Source: TestAmerica Pensacola
List Creation: 08/15/15 01:38 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	1.1°C IR-5
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 68601

List Number: 4

Creator: Carpenter, Jonnie T

List Source: TestAmerica Tallahassee

List Creation: 08/19/15 09:05 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7
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 <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

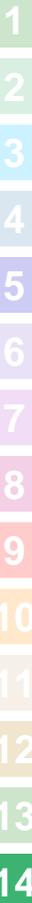
Login Number: 69823

List Source: TestAmerica Tampa

List Number: 1

Creator: Southers, Kristin B

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



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 69823
List Number: 2
Creator: Perez, Trina M

List Source: TestAmerica Pensacola
List Creation: 10/16/15 03:02 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	0.8°, 1.2°, 1.0°, 1.2°C IR-6
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: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 69823
List Number: 3
Creator: Perez, Trina M

List Source: TestAmerica Pensacola
List Creation: 10/16/15 03:12 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	0.8°, 1.2°, 1.0°, 1.2°C IR-6
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: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 69852

List Source: TestAmerica Tampa

List Number: 1

Creator: Betancourt, Jonathan

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



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 69852
List Number: 2
Creator: Benforado, Jessica L

List Source: TestAmerica Pensacola
List Creation: 10/17/15 11:34 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	0.0°C, 0.0°C, 0.0°C, 3.0°C IR-5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 69852
List Number: 3
Creator: Benforado, Jessica L

List Source: TestAmerica Pensacola
List Creation: 10/17/15 11:43 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	0.0°C, 0.0°C, 0.0°C, 3.0°C IR-5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 69879

List Source: TestAmerica Tampa

List Number: 1

Creator: Redding, Charles S

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



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 69879
List Number: 2
Creator: Crawford, Lauren E

List Source: TestAmerica Pensacola
List Creation: 10/20/15 11:33 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	1.9°C, 1.8°C, 0.7°C IR-2
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: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 69879
List Number: 3
Creator: Crawford, Lauren E

List Source: TestAmerica Pensacola
List Creation: 10/20/15 11:37 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	1.9°C, 1.8°C, 0.7°C IR-2
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: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 69879
List Number: 4
Creator: Crawford, Lauren E

List Source: TestAmerica Pensacola
List Creation: 10/20/15 11:38 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	1.9°C, 1.8°C, 0.7°C IR-2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 69893

List Source: TestAmerica Tampa

List Number: 1

Creator: Southers, Kristin B

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



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 69893
List Number: 2
Creator: Smith, Leia S

List Source: TestAmerica Pensacola
List Creation: 10/21/15 12:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	0.0°, 1.2°, 0.8°C IR-2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 69893
List Number: 3
Creator: Smith, Leia S

List Source: TestAmerica Pensacola
List Creation: 10/21/15 12:52 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	0.0°, 1.2°, 0.8°C IR-2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 69919

List Source: TestAmerica Tampa

List Number: 1

Creator: Betancourt, Jonathan

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



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 69974

List Source: TestAmerica Tampa

List Number: 1

Creator: Betancourt, Jonathan

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



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 69974
List Number: 2
Creator: Crawford, Lauren E

List Source: TestAmerica Pensacola
List Creation: 10/23/15 11:19 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	0.8°C, 1.5°C, 1.2°C, 0.9°C IR-2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 69974
List Number: 3
Creator: Crawford, Lauren E

List Source: TestAmerica Pensacola
List Creation: 10/23/15 11:21 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	0.8°C, 1.5°C, 1.2°C, 0.9°C IR-2
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: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 69974
List Number: 4
Creator: Crawford, Lauren E

List Source: TestAmerica Pensacola
List Creation: 10/23/15 11:23 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	0.8°C, 1.5°C, 1.2°C, 0.9°C IR-2
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: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 70002

List Source: TestAmerica Tampa

List Number: 1

Creator: Southers, Kristin B

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



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

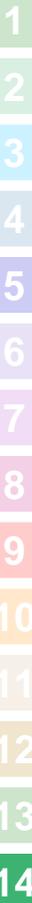
Login Number: 70026

List Source: TestAmerica Tampa

List Number: 1

Creator: Redding, Charles S

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



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 70026
List Number: 2
Creator: Benforado, Jessica L

List Source: TestAmerica Pensacola
List Creation: 10/27/15 10:56 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	0.8°C IR-5
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: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 70053

List Source: TestAmerica Tampa

List Number: 1

Creator: Betancourt, Jonathan

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



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 70053
List Number: 2
Creator: Perez, Trina M

List Source: TestAmerica Pensacola
List Creation: 10/28/15 12:18 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	2.7°C, 0.0°C, 1.1°C IR-5
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: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 70053
List Number: 3
Creator: Perez, Trina M

List Source: TestAmerica Pensacola
List Creation: 10/28/15 12:23 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	2.7°C, 0.0°C, 1.1°C IR-5
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: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 70082

List Source: TestAmerica Tampa

List Number: 1

Creator: Betancourt, Jonathan

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



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 70082
List Number: 2
Creator: Crawford, Lauren E

List Source: TestAmerica Pensacola
List Creation: 10/29/15 11:24 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	1.2°C 5.1°C IR-2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 70082
List Number: 3
Creator: Crawford, Lauren E

List Source: TestAmerica Pensacola
List Creation: 10/29/15 11:35 AM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	5.1°C 1.2°C IR-2
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: ARCADIS U.S., Inc.

Job Number: 660-68566-1

Login Number: 70082
List Number: 4
Creator: Benforado, Jessica L

List Source: TestAmerica Pensacola
List Creation: 10/30/15 03:50 PM

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



APPENDIX C

Photo Logs*

**Available on separate CD-insert*



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A decorative graphic consisting of three thin orange lines. One line is horizontal, extending across the width of the page. Two other lines are diagonal, starting from the bottom left and extending towards the top right, intersecting the horizontal line.