January 7, 2016

ATKINS

Mr. Matthew Preston, P.E. Project Management Office Southwest Florida Water Management District 7601 Highway 301 North, Building 1 Tampa, FL 33637

Re: Review of 3rd Quarter Water Quality Sampling Results December 2015 Sampling Event, Sawgrass Lake Site Restoration Project Southwest Florida Water Management District 3200 Gandy Boulevard, St. Petersburg, FL 33702 FDEP Facility ID # COM_301769

Dear Mr. Preston:

At the request of the Southwest Florida Water Management District (the District), Atkins is presenting this review of the results of the third quarterly sampling event (December 2015) for the facility referenced above. This document is designed to comply with the requirements of Sections 8.8 and 8.9 of the Remedial Action Plan (RAP), dated April 2007, and the letter from FDEP (Gary Millington, P.E.) to the District (Jennette Seachrist, P.E.), dated July 8, 2014, regarding water quality monitoring at the above-referenced site.

BACKGROUND

A full description of the site location, physical description of the site, and a more detailed discussion of the site history are provided in Section 2.0 of the RAP, dated April 2007. A full description of the lead shot remediation activities performed at this site is provided in the Remediation Completion Report, dated May 2014. What follows is a brief summary.

The Sawgrass Lake Site Restoration Project occupies a portion of the Sawgrass Lake Water Management Area (WMA), which is a largely wetland area owned by the District and located in Pinellas County, FL. From the 1930s until 2004, the Skyway Trap and Skeet Club (Skyway Gun Club), formerly the Lealman Rod and Gun Club, operated a trap and skeet shooting range, which included the use of lead shot. During that time, the western portion of the Sawgrass Lake WMA received lead shot because it was used as the shot drop zone.

Beginning in 1999, multiple studies of the soil, sediment, surface water, and groundwater of the Sawgrass Lake WMA were performed. These studies included sampling and laboratory analytical testing, which confirmed that the soil, sediment, surface water, and groundwater in the western

portion of the Sawgrass Lake site (down-range of the gun club) had been adversely impacted by the lead shot deposited in that area. By 2004, the contamination assessment investigations of the Sawgrass Lake site were largely completed. Elevated concentrations of lead (and some other metals, such as arsenic and antimony) were noted in the soil, sediments, and groundwater of the shot drop zone and areas immediately adjacent to the shot drop zone. In 2004, he Skyway Gun Club entered into an agreement with the District and FDEP, which prohibited the continued trespassing of lead-containing shot onto the District's property.

From 2005 to 2007, the District completed a RAP, which was submitted to FDEP in April 2007. The RAP recommended the excavation and treatment of the lead-impacted soils and sediments from the upland and wetland areas down-range of the Skyway Gun Club. The RAP was approved by the FDEP in December 2007. From 2007 through 2010, the District developed the plans for restoration of the site, including excavation and treatment of lead-impacted media. From 2011 through 2014, the remediation activities recommended in the RAP, as well as additional site restoration activities, were completed by Woodruff & Sons, Inc., the District's construction contractor. The District submitted a Remediation Completion Report to the FDEP in May 2014, which was approved by the FDEP on July 8, 2014. The Remediation Completion Report recommended water quality monitoring at the site, in accordance with Sections 8.8 and 8.9 of the RAP. In the July 8, 2014 letter, the FDEP agreed that remediation of the site was complete, but that water quality monitoring was required in accordance with the RAP.

Section 8.8 of the RAP indicated that four monitoring wells would be installed in the western portion of the District property and would be sampled quarterly (for one year) for certain metals and Total Dissolved Solids (TDS) parameters. The four monitoring wells were installed at the site in 2015. Similarly, Section 8.9 of the RAP indicated that samples of surface water would be collected on a quarterly basis. The surface water samples would be collected from three locations in the lake and one location in Channel 3 upstream of the project area. The surface water samples would be collected quarterly for one year and would be analyzed for lead, hardness, phosphorus, and nitrogen. After one year, the data from the groundwater and surface water sampling programs would be evaluated, and a decision would be made regarding continued monitoring.

The first quarterly sampling event at the Sawgrass Lake Site Restoration Project was conducted in June 2015, the second quarterly sampling event was performed in September 2015, and the third (most recent) quarterly sampling event was performed in December 2015. This report presents the results of the third quarter of groundwater and surface water sampling at the Sawgrass Lake Site Restoration Project. The groundwater and surface water sampling locations are illustrated in **Figure 1**.

THIRD QUARTERLY SAMPLING EVENT (DECEMBER 2015)

The third quarterly sampling event was conducted on December 15, 2015. Groundwater and surface water samples were collected during this event. The groundwater and surface water samples were collected in general accordance with the Florida Department of Environmental Protection (FDEP) Standard Operating Procedure for Field Activities (SOP 001/01). Sample collection was performed by Atkins personnel, and analysis was performed by Pace Analytical Services, Inc. (Pace). Pace is a NELAC-certified laboratory.

At the time the RAP was prepared, there were five monitoring wells on the project site property (MW-1, MW-2, MW-3, MW-4, and MW-10). All were properly abandoned in 2011, at the beginning of the restoration project, since they would be destroyed by the remediation/restoration activities. After the remediation and restoration activities were completed in 2015, four of the wells were replaced with MW-1R, MW-2R, MW-3R, and MW-4R. Due to the location of the berm, the realignment of the site access road, and the creation of a wetland that encompassed a portion of the former site road, the new (replacement) wells are not located in the exact same locations as the corresponding original wells. The replacement wells are located north, west, or east of the original wells, based on changes to the alignment of the new site access road. MW-10 was not replaced, as that area is now an inaccessible wetland. Groundwater samples were collected from MW-1R, MW-2R, MW-3R, and MW-4R on December 15, 2015.

Groundwater Sample Collection Methodology

Prior to sampling the monitoring wells, each well was purged with a peristaltic pump using the "low-flow" method. A minimum equivalent of one to three well volumes was purged from each well prior to sample collection. Temperature, pH, conductivity, dissolved oxygen (DO), and turbidity measurements were monitored and recorded throughout the purging process to ensure that representative water samples were collected. The groundwater samples were given identifiers which corresponded to the well of origin. The samples were named using a naming convention that consisted of Sawgrass Lake (SL), the well identification number (for example, MW-1R), and the sampling month (1215, in this case). For example, the sample from MW-1R was labeled "SLMW-1R-1215". Depth-to-groundwater measurements were made from the top-of-casing (TOC) at each monitoring well prior to initiating the purging process. The groundwater sampling logs and field equipment calibration logs are provided in **Attachment A**.

Each well was sampled for total arsenic, dissolved arsenic, total lead, dissolved lead, calcium hardness, magnesium hardness, total hardness, and TDS. A duplicate sample was collected from MW-1R. All of the samples were placed in laboratory-prepared containers, placed on ice, and carried to Pace for analysis of the analytes listed above.

Surface Water Sample Collection Methodology

Four sampling locations were selected based on compliance with the RAP and water depths within the lake. The first sample location was in the upland cut canal to the south and the remaining three samples were taken from the southwest area of the lake. The samples were named using a naming convention that consisted of Sawgrass Lake (SL) and the surface water location identification number (for example, SW-1) and the depth (in feet) at which the sample was collected (for example, -2). The process consisted of collecting four water samples at the canal sampling location and four samples at the other three locations within the lake. Samples were collected based on water depth, including a surface, one-foot, mid-depth and bottom sample. Samples were collected using a Kemmerer water sampler (see photo below). The device is lowered into the water column to the desired depth, then a weight is dropped down the main line activating two latches which close the outside doors and seal the sample inside the tube without being contaminated by other water.

Each sample was tested for Arsenic, Calcium, Lead, Magnesium, Nitrogen (Kjeldahl, Total), Nitrogen (NO₂ plus NO₃), Phosphorous (Total as P), Total Hardness as CaCO₃, and Total Nitrogen. All of the samples were placed in laboratory-prepared containers, placed on ice, and delivered to Pace for analysis of the analytes listed previously. The surface water field sampling sheets and YSI calibration logs are provided in **Attachment B**.



Typical Kemmerer water sampling device.

THIRD QUARTERLY SAMPLING EVENT RESULTS (DECEMBER 2015)

Groundwater Flow Pattern

Depth to groundwater measurements were collected at the four monitoring wells. The depth to groundwater ranged from 3.04 feet below the TOC at MW-2R to 3.61 feet below the TOC at MW-3R. The water table was up to 0.81 feet lower than during the previous sampling event. As the wells are flush-mounted, the TOC elevation is similar to the ground surface elevation. The layout of the monitoring wells parallel to the shoreline of the open-water wetland area did not lend itself to preparation of a credible groundwater contour map (based solely on the four monitoring wells). It is assumed that the groundwater flow direction is toward the open-water wetland area immediately east across the access road, and ultimately towards Sawgrass Lake. The groundwater flow direction can be assumed to be eastward, towards Sawgrass Lake, which is consistent with previous studies.

Sampling Results

A description of the detections in the groundwater and surface water is presented below.

Groundwater Analytical Results

A summary of the groundwater analytical results is presented in **Table 1**, and the laboratory analytical reports are provided in **Attachment C**. **Figure 2** illustrates the December 2015 concentrations of arsenic, dissolved arsenic, lead, dissolved lead, and TDS on a map of the project site. **Table 1** also provides the corresponding groundwater analytical results from the original monitoring wells for the period from 2000 to 2006, as well as the results from the prior quarterly sampling events.

The concentrations of all of the parameters analyzed in the groundwater were compared to their respective Maximum Contaminant Level (MCL) or Secondary Drinking Water Standard (SDWS) in accordance with the Florida statutes. The MCLs and SDWSs for Drinking Water Standards, Monitoring, and Reporting are promulgated by Chapters 62-550 and 62-777 of the Florida Administrative Code (FAC). Not every parameter has an MCL or SDWS. There were two analytes detected at concentrations that did not comply with their standards – pH and TDS. Note that neither lead nor arsenic were detected in the groundwater during this sampling event. TDS and pH have SDWS criteria, as provided as an MCL in Chapter 62-550 FAC. A description of the detection patterns with these two analytes is described below.

- pH The SDWS for pH is any value within the range of 6.5 to 8.5. The pH readings for all of the wells were less than the SDWS range. The pH values ranged from 6.11 at MW-2R to 6.41 at MW-3R (see **Attachment A**). Except for MW-3R, the pH readings at all of the wells were lower than during the previous sampling event.
- TDS The SDWS for TDS is 500 mg/L. The TDS concentrations in the samples collected at all four monitoring wells exceeded the standard. The TDS concentrations ranged from 599 mg/L at MW-4R to 2,290 mg/L at MW-1R. As shown in **Table 1**, the TDS concentrations in the existing monitoring wells are considerably higher than in the corresponding former wells (sampled in 2006). However, from September 2015 to December 2015, there were notable decreases in the TDS concentrations at all of the wells except MW-1R (which remained relatively high, at 2,290 mg/L). The decreases in TDS concentrations from September 2015 to December 2015 to

With the exception of the specific results discussed above, the groundwater quality results from the December 2015 sampling event were in the same general range as the results from the June and September 2015 sampling events. It was noted that conductivity readings were on the order four times higher in the groundwater (at MW-1R, for example) than in the surface water, and the total hardness values in the groundwater were on the order of five times higher than the surface water.

Surface Water Analytical Results

A summary of the surface water analytical results is presented in **Table 2**, and the Pace Laboratory analytical report is provided in **Attachment D**. **Table 3** presents a summary of the field measurements collected by Atkins staff with the YSI sonde including: temperature, specific conductivity, salinity, pH, dissolved oxygen (total and %), and turbidity. The data were collected on December 15, 2015 and 0.0 inches of rain was observed the previous day at the St. Pete – Clearwater Airport. The non-native plant, Hydrilla (*Hydrilla verticillata*) was also observed in the lake during the sampling. **Figure 3** illustrates the December 2015 mean concentrations of lead, hardness, total phosphorus, and total nitrogen on a map of the project site. **Table 2** also provides the corresponding analytical results compared to the original surface water sampling on April 12, 2007.

There were several analytes tested for in the surface water samples. The concentration of every analyte that was detected in the surface water sample was compared to the FDEP surface water quality standards (if a standard existed for that analyte) found in Chapter 62-302, FAC and mean values recorded from pre-construction bench scale sampling.

- Arsenic testing of this heavy metal was added to the surface water sampling for the third quarter sampling in addition to the second quarter. All of the 16 samples were undetected for arsenic.
- Lead the surface water criteria for lead was identified as being ≤8.68 µg/L. All of the surface water samples resulted in readings less than the Laboratory Method Detection Limit (MDL), resulting in no lead detection. The mean value was measured at 10 µg/L prior to construction.
- Total Phosphorus all four samples collected at station SLSW-1 reported a readings between 150 μ g/L and 200 μ g/L, therefore exceeding the mean value bench scale of 102 μ g/L recorded during the April 2007 sampling. The three remaining stations had readings below the bench scale value at all of the sampled water depths.
- Total Nitrogen sample values ranged from a low of 870 μ g/L in the lake to a high of 1,400 μ g/L in the canal portion of Sawgrass Lake, which were all below the mean value bench scale reading of 8,188 μ g/L.
- Nitrogen, NO₂ plus NO₃ the mean value bench scale was measured at an average of 32.1 µg/L in 2007. All four samples exceeded the average at station SLSW-1 (ranging from 72 µg/L to 84 µg/L). The three remaining stations had readings below the bench scale value at all of the sampled water depths.
- Nitrogen, Kjeldahl, Total all of the samples collected during December 2015 were below the pre-construction mean of 7,863 μ g/L. The collected samples ranged from 870 μ g/L to 1,300 μ g/L.
- Hardness as CaCO₃ collected values ranged from 170,000 µg/L to 197,000 µg/L, which were all below the April 2007 mean value of 220,000 µg/L.
- Calcium collected values ranged from 57,900 μ g/L to 66,900 μ g/L, which were all below the mean bench scale value of 75,500 μ g/L.
- Magnesium collected values ranged from 5,890 μ g/L to 7,240 μ g/L, which were all below the previous mean bench scale value of 7,813 μ g/L.
- pH The SDWS for pH is any value within the range of 6.5 to 8.5. All of the pH readings at each measured depth at every sampling location were within the accepted SDWS standard range.

- Dissolved Oxygen concentrations ranged from 0.60 mg/L to 8.85 mg/L. The surface water criteria for dissolved oxygen is ≥5 mg/L. All of the readings in the North/South canal were less than 5 mg/L. The lowest dissolved oxygen levels in the other samples were primarily recorded near the bottom of the respective water column.
- Salinity –values ranges from 0.24 ppt to 0.27 ppt, with little variation between depth and location.
- Specific Conductivity the field measurements collected with the YSI sonde ranged from a low of 491 μ S/cm to high of 567 μ S/cm at sample station SLSW-1-4 in the canal portion of the lake.
- Turbidity values at each site were very consistent between sample locations, with a small range from 6.0 NTU to 14.1 NTU.
- Temperature (water) readings were between 21.00 °C at depth and 23.51 °C at the surface of the lake.

SUMMARY AND CONCLUSIONS

The results of the third quarterly sampling event at the Sawgrass Lake Site Restoration Project were generally consistent with the results of the prior two quarterly sampling events (in June and September 2015) and with previous (2000 to 2007) sampling events, with some exceptions, as discussed below.

There were two analytes detected in the groundwater that did not comply with their regulatory standards: pH and TDS were detected in the groundwater at concentrations in that did not comply with their regulatory criteria. Lead was (again) not detected in the groundwater samples, and notably, this was the first sampling event during which arsenic was also not detected in any of the groundwater samples. Unlike previous sampling events, findings of low pH (ranging from 6.11 to 6.41) were identified at all of the monitoring wells. TDS concentrations were higher than the pre-2011 data collected from the corresponding wells. The significantly elevated TDS concentrations detected in all four monitoring wells may be the result of the recent site remediation/restoration activities implemented beginning in 2011, as they have no historical precedent. However, the TDS concentrations in most of the monitoring wells decreased significantly between the September 2015 sampling event and December 2015 sampling event.

There were two analytes measured in the surface water that exceeded the mean bench scale readings from April 12, 2007 during the December 15, 2015 sampling event. The Nitrogen, NO_2 plus NO_3 was elevated at four sample locations (all four samples at station SLSW-1). These

samples were also elevated during the September 2015 sampling event, as shown in **Table 2**. The results for Total Phosphorus had four samples with a reading above the bench scale data from 2007, all of which were at station SLSW-1 as well. The Phosphorus samples at Station SLSW-1 have also had previously elevated readings during the June and September 2015 sampling events, as shown in **Table 2**. During the December 2015 sampling event, there was extensive vegetation covering the water column in the canal portion of the lake where these elevated values occurred. All of the samples were tested for arsenic and lead, with each sample returning results that were less than the laboratory MDLs. Arsenic testing was not part of the original RAP surface water testing, but was added by Atkins for the 2^{nd} and 3^{rd} quarter monitoring events to compare with the groundwater results, with no detections at any surface water locations. Therefore, arsenic will be removed for the 4^{th} quarter surface water sampling event. As observed previously in the June and September 2015 sampling events, the total hardness and conductivity data collected in December 2015 revealed significantly lower readings in the surface water compared to the values determined from the groundwater sampling.

Atkins recommends that the analytical results from the next sampling event be evaluated closely for any developing trends. After one more quarter of groundwater monitoring and surface water sampling, a decision will be made regarding continued monitoring. At that time, a decision will also be made to determine whether the site owner should pursue a Site Rehabilitation Completion Order *with Conditions* or *without Conditions*.

If you have any questions regarding the information presented in this report, please contact Atkins at (813) 477-7275 or <u>bradley.bayne@atkinsglobal.com</u>.

eleg & Buyn

Date: <u>1-7-16</u> Bradley I. Bayne Professional Geologist No. 1733 State of Florida

國際

TABLES

TABLE 1 SUMMARY OF GROUNDWATER ANALYTICAL DATA SAWGRASS LAKE SITE RESTORATION PROJECT

Analyte	SLMW-1	SLMW-1#	SLMW-1-R	SLMW-1R-0615	SLMW-1R-0915	SLMW-1R-1215	SLMW-2	SLMW-2-R	SLMW-2R- 0615	SLMW-2R- 0915	SLMW-2R- 1215	Groundwater Criteria
Sampling Month	Aug. 2000	Nov. 2002	Mar. 2006	Jun. 2015	Sept. 2015	Dec. 2015	Aug. 2000	Mar. 2006	Jun. 2015	Sept. 2015	Dec. 2015	
Arsenic	290	230	2.6	5.3 U (5.3 U)	13.3 (15.2)	5.3 U (5.3 U)	BDL	20	5.3 U	5.3 U	5.3 U	10
Dissolved Arsenic	N/A	N/A	BDL	5.3 U (5.3 U)	5.3 U (5.3 U)	5.3 U (5.3 U)	N/A	19	5.3 U	5.3 U	5.3 U	10
Lead	28	34	3.5	8.5 U (8.5 U)	8.5 U (8.5 U)	8.5 U (8.5 U)	BDL	4.8	8.5 U	8.5 U	8.5 U	15
Dissolved Lead	N/A	N/A	0.71 I	8.5 U (8.5 U)	8.5 U (8.5 U)	8.5 U (8.5 U)	N/A	0.87 I	8.5 U	8.5 U	8.5 U	15
Calcium Hardness*	N/A	N/A	87.2	416 (405)	596 (590)	387 (378)	N/A	109	165	477	201	-
Magnesium Hardness*	N/A	N/A	9.56	130 (135)	78.1 (74.2)	133 (135)	N/A	19.3	19	17.5	36.6	-
Total Hardness*	N/A	N/A	96.76	1,570 (1,570)	1,810 (1,780)	1,510 (1,500)	N/A	128.3	490	1,260	653	-
Total Dissolved Solids	N/A	N/A	180,000	2,280,000 (2,250,000)	2,530,000 (2,630,000)	2,290,000 (2,160,000)	N/A	220,000	801,000	1,920,000	1,020,000	500,000
			SI MW-3B-	SI MW-3B-	SI MW-3B-		SI MW-4-R	SI MW-4R-	SI MW-4R-	SI MW-4R-	Groundwater	
Analyte	SLMW-3	SLMW-3-R	SLMW-3R- 0615	SLMW-3R- 0915	SLMW-3R- 1215	SLMW-4	SLMW-4-R	SLMW-4R- 0615	SLMW-4R- 0915	SLMW-4R- 1215	Groundwater Criteria	
Sampling Month	Aug. 2000	Mar. 2006	0615 Jun. 2015	0915 Sept. 2015	1215 Dec. 2015	Aug. 2000	Mar. 2006	0615 Jun. 2015	0915 Sept. 2015	1215 Dec. 2015	Criteria	
Sampling Month Arsenic	Aug. 2000 110	Mar. 2006 29	0615 Jun. 2015 32.4	0915 Sept. 2015 31.3	1215 Dec. 2015 5.3 U	Aug. 2000 18	Mar. 2006	0615 Jun. 2015 5.3 U	0915 Sept. 2015 5.3 U	1215 Dec. 2015 5.3 U	Criteria 10	
Sampling Month Arsenic Dissolved Arsenic	Aug. 2000 110 N/A	Mar. 2006 29 28	0615 Jun. 2015 32.4 32.4	0915 Sept. 2015 31.3 30.4	1215 Dec. 2015 5.3 U 5.3 U	Aug. 2000 18 N/A	Mar. 2006 11 11	0615 Jun. 2015 5.3 U 5.3 U	0915 Sept. 2015 5.3 U 5.3 U	1215 Dec. 2015 5.3 U 5.3 U	Criteria	
Sampling Month Arsenic Dissolved Arsenic Lead	Aug. 2000 110 N/A BDL	Mar. 2006 29 28 10	0615 Jun. 2015 32.4 32.4 18.0	0915 Sept. 2015 31.3 30.4 8.5 U	1215 Dec. 2015 5.3 U 5.3 U 8.5 U	Aug. 2000 18 N/A 7.2	Mar. 2006 11 11 58	0615 Jun. 2015 5.3 U 5.3 U 8.5 U	0915 Sept. 2015 5.3 U 5.3 U 8.5 U	1215 Dec. 2015 5.3 U 5.3 U 8.5 U	Criteria 10 10 15	
Sampling Month Arsenic Dissolved Arsenic Lead Dissolved Lead	Aug. 2000 110 N/A BDL N/A	Mar. 2006 29 28 10 2.3	0615 Jun. 2015 32.4 32.4 18.0 13.7 I	0915 Sept. 2015 31.3 30.4 8.5 U 8.5 U	1215 Dec. 2015 5.3 U 5.3 U 5.3 U 8.5 U 8.5 U	Aug. 2000 18 N/A 7.2 N/A	Mar. 2006 11 11 58 54	0615 Jun. 2015 5.3 U 5.3 U 8.5 U 8.5 U 8.5 U	0915 Sept. 2015 5.3 U 5.3 U 8.5 U 8.5 U 8.5 U	1215 Dec. 2015 5.3 U 5.3 U 8.5 U 8.5 U 8.5 U	Criteria 10 10 15 15	
Sampling Month Arsenic Dissolved Arsenic Lead Dissolved Lead Calcium Hardness*	Aug. 2000 110 N/A BDL N/A N/A	Mar. 2006 29 28 10 2.3 272	0615 Jun. 2015 32.4 32.4 18.0 13.7 I 360	0915 Sept. 2015 31.3 30.4 8.5 U 8.5 U 8.5 U 400	1215 Dec. 2015 5.3 U 5.3 U 8.5 U 8.5 U 232	Aug. 2000 18 N/A 7.2 N/A N/A	Mar. 2006 11 11 58 54 76.2	0615 Jun. 2015 5.3 U 5.3 U 8.5 U 8.5 U 207	0915 Sept. 2015 5.3 U 5.3 U 8.5 U 8.5 U 313	1215 Dec. 2015 5.3 U 5.3 U 8.5 U 8.5 U 113	Criteria 10 10 15 15 -	
Sampling Month Arsenic Dissolved Arsenic Lead Dissolved Lead Calcium Hardness* Magnesium Hardness*	Aug. 2000 110 N/A BDL N/A N/A N/A	Mar. 2006 29 28 10 2.3 272 15.8	0615 Jun. 2015 32.4 32.4 18.0 13.7 I 360 40.0	0915 Sept. 2015 31.3 30.4 8.5 U 8.5 U 400 29.4	1215 Dec. 2015 5.3 U 5.3 U 8.5 U 8.5 U 232 17.0	Aug. 2000 18 N/A 7.2 N/A N/A N/A	Mar. 2006 11 11 58 54 76.2 15.3	0615 Jun. 2015 5.3 U 5.3 U 8.5 U 8.5 U 207 70.2	0915 Sept. 2015 5.3 U 5.3 U 8.5 U 8.5 U 313 27.5	1215 Dec. 2015 5.3 U 5.3 U 8.5 U 8.5 U 113 12.3	Criteria 10 10 15 15	
Sampling Month Arsenic Dissolved Arsenic Lead Dissolved Lead Calcium Hardness*	Aug. 2000 110 N/A BDL N/A N/A	Mar. 2006 29 28 10 2.3 272	0615 Jun. 2015 32.4 32.4 18.0 13.7 I 360	0915 Sept. 2015 31.3 30.4 8.5 U 8.5 U 8.5 U 400	1215 Dec. 2015 5.3 U 5.3 U 8.5 U 8.5 U 232	Aug. 2000 18 N/A 7.2 N/A N/A	Mar. 2006 11 11 58 54 76.2	0615 Jun. 2015 5.3 U 5.3 U 8.5 U 8.5 U 207	0915 Sept. 2015 5.3 U 5.3 U 8.5 U 8.5 U 313	1215 Dec. 2015 5.3 U 5.3 U 8.5 U 8.5 U 113	Criteria 10 10 15 15 -	

Notes: All results in Micrograms per liter, except for hardness results, which are in mg/l

= Sample name for location SLMW-1 in 2002 was MW-04S as provided in the FDEP 2003 Site Inspection Report

U = After 2006: Less than Laboratory Method Detection Limits (MDL) - MDL is shown

BDL = 2006 or Before: Below Detection Limits, Below Method Detection Limit, or Below Reporting Limit (shown as "U" on laboratory sheets)

Bold = groundwater criteria exceedance

N/A = Not Applicable

* = hardness results given in Milligrams per liter

Groundwater Criteria = Chapter 62-777 FAC

Duplicate values shown in parenthesis

I = Result is between Method Detection Limit and Practical Quantitation Limit

TABLE 2 SUMMARY OF SURFACE WATER ANALYTICAL DATA SAWGRASS LAKE SITE RESTORATION PROJECT

		SLSW-1-0			SLSW-1-1			SLSW-1-2			SLSW-1-3			SLSW-1-4	
Parameter	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec.
Arsenic (µg/L)	*	5.0 U	5.0 U	*	5.0 U	5.0 U	*	5.0 U	5.0 U		5.0 U	5.0 U		5.0 U	
Calcium (µg/L)	42,300	63,400	64,200	44,000	62,500	66,900	40,800	62,700	66,100		62,500	66,300		62,800	
Lead (µg/L)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	z	5.0 U	5.0 U	z	5.0 U	7
Magnesium (µg/L)	3,040	4,960	7,230	3,270	5,010	7,240	3,940	4,990	7,240	lot	4,970	7,170	<u>e</u>	4,990	IOT
Nitrogen, Kjeldahl, Total (µg/L)	550	620	930	990	980	1,200	1,500	500	1,300	Tes	690	1,200	Tes	600	e
Nitrogen, NO2 plus NO3 (μg/L)	46 I	150	84	44 I	350	72	30 I	170	83	stec	170	84	stec	170	stec
Phosphorus, Total (as P) (µg/L)	62 I	69 I	170	140	130	150	190	53 I	210	_	84 I	200	_	71 I	_
Total Hardness asCaCO3 (μg/L)	118,000	179,000	190,000	123,000	177,000	197,000	118,000	177,000	195,000		177,000	195,000		177,000	
Total Nitrogen (µg/L)	600	770	1,000	1,000	1,300	1,200	1,500	670	1,400		860	1,300		770	

		SLSW-2-0			SLSW-2-1			SLSW-2-3		SLSW-2-5			
Parameter	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	
Arsenic (µg/L)	*	5.0 U	5.0 U										
Calcium (µg/L)	42,200	46,300	59,100	42,100	45,900	59,100	41,600	42,200	59,200	42,300	41,800	58,400	
Lead (µg/L)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Magnesium (µg/L)	4,150	3,450	6,190	4,170	3,430	6,270	4,070	3,060	6,050	4,140	3,030	6,340	
Nitrogen, Kjeldahl, Total (µg/L)	1,100	620	900	810	640	870	880	580	920	840	610	910	
Nitrogen, NO2 plus NO3 (µg/L)	28 I	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	
Phosphorus, Total (as P) (µg/L)	61 I	50 U	50 U	65 I	50 U	54 I	71	50 U	50 U	66 I	59 I	58 I	
Total Hardness asCaCO3 (µg/L)	123,000	130,000	173,000	122,000	129,000	173,000	121,000	118,000	173,000	123,000	117,000	172,000	
Total Nitrogen (μg/L)	1,100	630	910	830	640	870	890	590	920	860	620	910	

		SLSW-3-0			SLSW-3-1			SLSW-3-3		SLSW-3-5			
Parameter	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	
Arsenic (µg/L)	*	5.0 U	5.0 U										
Calcium (µg/L)	42,400	41,800	58,400	42,200	41,200	58,000	42,200	42,700	58,500	41,900	42,600	58,800	
Lead (µg/L)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	
Magnesium (µg/L)	4,130	3,050	6,060	4,100	3,040	6,100	4,080	3,120	6,020	4,000	3,100	6,050	
Nitrogen, Kjeldahl, Total (µg/L)	730	710	870	670	710	890	770	670	950	900	660	880	
Nitrogen, NO2 plus NO3 (µg/L)	36 I	35 I	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	
Phosphorus, Total (as P) (µg/L)	55 I	69 I	50 I	51 I	61 I	53 I	55 I	66 I	50 U	93 I	63 I	50 U	
Total Hardness asCaCO3 (µg/L)	123,000	117,000	171,000	122,000	115,000	170,000	122,000	120,000	171,000	121,000	119,000	172,000	
Total Nitrogen (μg/L)	770	750	870	690	720	890	780	670	950	910	660	880	

		SLSW-4-0			SLSW-4-1			SLSW-4-3			SLSW-4-5			SLSW-4-9	
Parameter	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec.
Arsenic (µg/L)	*	5.0 U	5.0 U	*	5.0 U	5.0 U	*			*	5.0 U	5.0 U		5.0 U	5.0
Calcium (µg/L)	42,400	41,400	58,300	42,100	42,000	57,900	40,400			69,700	39,500	58,300		43,300	58,4
Lead (µg/L)	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	7	7	5.0 U	5.0 U	5.0 U	7	5.0 U	5.0
Magnesium (μg/L)	4,110	3,020	6,050	4,060	3,040	6,100	3,800	Vot	Vot	3,760	2,910	6,080	lot	3,280	5,89
Nitrogen, Kjeldahl, Total (µg/L)	840	590	910	840	570	930	760	Te	Te	790	720	940	Te	770	96
Nitrogen, NO2 plus NO3 (μg/L)	30 I	310	25 U	25 U	25 U	25 U	25 U	ste	ste	25 U	25 U	25 U	ster	25 U	25
Phosphorus, Total (as P) (μg/L)	67 I	70 I	53 I	65 I	50 U	58 I	61	<u>0</u>	<u>0</u>	68 I	66 I	55 I	<u> </u>	78 I	73
Total Hardness asCaCO3 (µg/L)	123,000	116,000	170,000	122,000	118,000	170,000	117,000			189,000	111,000	171,000		122,000	170,
Total Nitrogen (µg/L)	870	900	910	860	580	930	770			800	720	940		770	96

Notes: All results are reported in micrograms per liter unless otherwise noted

U = Less than Laboratory Method Detection Limit (MDL) - MDL is shown

Bold = Mean Value Bench Scale Exceedance from April 12, 2007 pre-construction sampling

I = Result is between Method Detection Limit and Practical Quanitation Limit

* = Arsenic not tested for during June 2015 sampling

. 2015	
Z	
Not Tested	
este	
ä.	

Mean Value Bench Scale	Class III Surface
April 2007	Water Standard
13.3	≤ 50
75,500	-
10	< 8.68
7,813	-
7,863	-
32.1	-
102	-
220,000	-
8,188	-

Class III Surface
Water Standard
≤ 50
-
< 8.68
-
-
-
-
-
-

Mean Value Bench Scale	Class III Surface
April 2007	Water Standard
13.3	≤ 50
75,500	-
10	< 8.68
7,813	-
7,863	-
32.1	-
102	-
220,000	-
8,188	-

Class III Surface
Water Standard
≤ 50
-
<8.68
-
-
-
-
-
-

. 2015
.0 U
,400
.0 U
,890
960
5 U
73 I
0,000
960

TABLE 3 SUMMARY OF YSI SONDE ANALYTICAL DATA SAWGRASS LAKE SITE RESTORATION PROJECT

	SLSW-1-0			SLSW-1-1			SLSW-1-2				SLSW-1-3		SLSW-1-4		
Parameter	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015
Temperature (°C)	*	*	*	27.39	29.08	23.51	27.40	29.03	23.36		28.91	21.24		28.83	21.00
Specific Conductivity (µS/cm)	*	*	*	342	464	529	338	464	529	7	464	546	7	470	567
Salinity (ppt)	*	*	*	0.16	0.22	0.25	0.16	0.22	0.26	Vot	0.22	0.26	Vot	0.22	0.27
рН	*	*	*	6.49	7.10	7.00	6.62	7.14	6.90	Te	7.14	6.73	Τe	7.04	6.71
Dissolved Oxygen (mg/L)	*	*	*	1.82	2.74	3.17	1.37	2.84	2.67	ste	2.80	0.81	ste	2.13	0.60
Dissolved Oxygen (%)	*	*	*	22.3	21.1	37.2	17.3	37	31.3	<u>a</u>	36.4	9.1	8	27.3	6.8
Turbidity (NTU)	*	*	*	7.3	7.4	13.6	8.5	7.2	14.1		7.1	7.4		7.8	6.0

Notes: * No surface water reading (YSI Sonde must be submerged 1' before reading can occur)

		SLSW-2-0			SLSW-2-1			SLSW-2-3			SLSW-2-5	
Parameter	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	D
Temperature (°C)	*	*	*	28.56	29.42	23.17	28.55	29.08	23.14	28.47	28.99	
Specific Conductivity (µS/cm)	*	*	*	378	337	492	378	337	492	379	336	
Salinity (ppt)	*	*	*	0.18	0.16	0.24	0.18	0.16	0.24	0.18	0.16	
рН	*	*	*	7.66	7.05	7.64	7.71	6.90	7.58	7.67	6.84	
Dissolved Oxygen (mg/L)	*	*	*	6.27	5.99	8.65	6.24	4.60	8.44	5.48	3.96	
Dissolved Oxygen (%)	*	*	*	80.9	78.3	101.4	80.5	59.8	98.8	70.5	51.3	
Turbidity (NTU)	*	*	*	8.2	7.0	8.8	8.1	22.2	8.6	7.8	29.3	

Notes: * No surface water reading (YSI Sonde must be submerged 1' before reading can occur)

		SLSW-3-0			SLSW-3-1			SLSW-3-3			SLSW-3-5	
Parameter	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	De
Temperature (°C)	*	*	*	29.40	29.35	23.24	29.34	29.10	23.11	29.36	28.47	
Specific Conductivity (µS/cm)	*	*	*	381	331	491	381	336	492	381	329	
Salinity (ppt)	*	*	*	0.18	0.16	0.24	0.18	0.16	0.24	0.18	0.16	
рН	*	*	*	7.63	7.19	7.82	7.62	6.91	7.67	7.66	6.65	
Dissolved Oxygen (mg/L)	*	*	*	7.86	6.46	8.85	7.57	1.50	8.25	7.55	0.52	
Dissolved Oxygen (%)	*	*	*	103.0	84.5	103.7	99.2	19.4	96.5	98.8	6.7	
Turbidity (NTU)	*	*	*	8.6	6.9	9.0	8.5	7.1	8.9	8.9	7.8	

Notes: * No surface water reading (YSI Sonde must be submerged 1' before reading can occur)

		SLSW-4-0			SLSW-4-1			SLSW-4-3			SLSW-4-5			SLSW-4-9	
Parameter	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015	June 2015	Sept. 2015	Dec. 2015
Temperature (°C)	*	*	*	29.45	29.60	23.15	28.86	29.21	23.03	28.86	28.11	22.94		26.52	22.05
Specific Conductivity (µS/cm)	*	*	*	378	328	491	382	329	493	364	317	494	-	989	496
Salinity (ppt)	*	*	*	0.18	0.15	0.24	0.18	0.15	0.24	0.17	0.15	0.24	Vot	0.49	0.24
рН	*	*	*	7.85	6.79	7.82	7.22	6.58	7.74	7.01	6.04	7.58	Te	5.23	6.95
Dissolved Oxygen (mg/L)	*	*	*	7.73	7.70	8.67	5.55	5.36	7.72	3.11	1.58	7.39	ste	0.29	2.06
Dissolved Oxygen (%)	*	*	*	101.3	101.0	101.5	71.6	69.4	90.1	40.0	20.1	86.2	<u>o</u>	3.6	23.6
Turbidity (NTU)	*	*	*	8.6	6.6	8.7	8.5	6.9	8.5	8.3	6.9	8.6		15.5	9.8

Notes: * No surface water reading (YSI Sonde must be submerged 1' before reading can occur)

Dec. 2015
23.11
493
0.24
7.50
8.12
95.0
8.9

Dec. 2015
22.93
493
0.24
7.52
7.10
82.4
9.2

FIGURES



SURFACE WATER SAMPLING LOCATIONS



FIGURE 2. DECEMBER 2015 GROUNDWATER SAMPLING RESULTS



FIGURE 3. DECEMBER 2015 SURFACE WATER SAMPLING RESULTS

ATTACHMENT A

Groundwater Sampling Logs and Field Equipment Calibration Logs

SITE NAME:	Sawa	rass 1	ake	Site	S	TE DCATION:	Pir	rellas	Park		
WELL NO		- 1R		SAMPLE	ID: SL		-1R-1			115/1	5
		-		4		SING DA				1 - 1 -	
WELL DIAMETER WELL VOI (only fill ou		TUBINO DIAME	TER (inches): UME = (TOT	14 DEI	PTH - STA	TIC DEPTH T	OWATER) X	ER (feet):	1 > OR BA	EPUMP TYPE	staltic
EQUIPME (only fill ou	NT VOLUME P t if applicable)	URGE: 1 EQU	IPMENT VOL.	= PUMP VOI = O g	allons + (Ou		feet) X TY X TI ons/foot X 5	UBING LENGTH	gallons/foot + FLOW CELL + 0.2	VOLUME	gallons 214 gallons
INITIAL PU DEPTH IN	WELL (feet):	65.5	FINAL PUM DEPTH IN \	P OR TUBING WELL (feet):	° 5.5	PURGIN	G AT: 9:5			OTAL VOLUM URGED (gallo	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) (mg/L) or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:20	3,0	3.0	0.1	3.31	6,52	23,95	2282	1.03	7.13	Black	None
10:25	0.5	3,5	0.1	3,30	6.45	23,95	2273	0.71	6.89	Lt. BIK	
10:30	0.5	4,0	0.1	3,31	6.38	23.95	2271	0.56	5.65		
10:35	0.5	4.5	0.1	3.30	6.36	23.94	2288	0.53	5.36	V	
10:40	0.5	5.0	0.1	3.31	6.35	23,93	2299	0.50	4.62	Clear	
10:45	0.5	5.5	0.1	3.31	6.34	23.93	2296	0.47	5.28	*	V
TUBING IN		s Per Foot): 0 PACITY (Gal./F CODES: B	t.): 1/8" = 0.0	1" = 0.04; 006; 3/16" P = Bladder F	Pump; E	1/4" = 0.002 SP = Electric	6; 5/16" = 0. Submersible Pur	004; 3/8" = 0.			= 5.88 = 0.016 (Specify)
SAMPLED	BY (PRINT) / A	FEILIATION:		SAMPLER(S)		LING DA	ATA		1.0		
Brad	Bayne		ins	IS	m	25	n	SAMPLING INITIATED AT		SAMPLING L	
PUMP OR	WELL (feet):	5.5		MATERIAL CI	ODE: HD	PE +S		-FILTERED: Y		FILTER SIZE:	μm
FIELD DEC	ONTAMINATIO	ON: PUM	-		TUBING	-	placed)	DUPLICATE:	D	N	
SAMP		R SPECIFICA	TION	1	SAMPLE PR	ESERVATIO	N	INTENDE			MPLE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVAT USED	IVE T ADDE	OTAL VOL D IN FIELD (n	FINAL pH	ANALYSIS AM METHOI			LOW RATE L per minute)
			Sea	Ch	nain	of	cust	ody			
				-							
REMARKS:											
MATERIAL	CODES:	AG = Amber G	ilass; CG =	Clear Glass;	PE = Poly	ethylene;	PP = Polypropyle	ene; S = Silico	ne; T = Teflon	; O = Other	(Specify)
SAMPLING	EQUIPMENT		PP = After Peri PP = Reverse		B = Bail	er; BP =	Bladder Pump; Method (Tubing	ESP = Electri	c Submersible P 0 = Other (Sp	ump;	
OTES: 1.	The above of			ALC ALCOLUMN PROVIDENT			er 62-160, F.A				

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

Revision Date: February 12, 2009

SITE NAME:	Sawo	TASS	Lake	Site		TE DCATION:	Pine	211/45	Park		
WELL NO:	m	w-2	R	SAMPLE	ID: SL	mw-	2R-1	215	DATE: 12	15/15	5
						SING DA	TA				
WELL DIAMETER	(inches): 2	TUBING DIAMET	ER (inches):	14 DEP	L SCREEN	et to 13.7 fe	STATIC I	ER (feet): 3:C	OR BA	LER: Per	stattic
(only fill out	if applicable)		= (1	3.7	feet- 3	.04	feet) X	WELL CAPACI	gallons/foot		gallons
	IT VOLUME PU if applicable)	RGE: 1 EQU	PMENT VOL.	= PUMP VOL	UME + (TUB allons + (O	0026 gallo	ns/foot x 5	UBING LENGTH) feet)	+ D.Z	gallons =	, Z13 gallons
	MP OR TUBING WELL (feet):	5	Landa C. S. Sana Y. Y. S.	P OR TUBING	5	PURGIN	G AT: 11:0			OTAL VOLUM URGED (gallo	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (^o C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe) Light	ODOR (describe)
11:35	3.0	3.0	0.1	3.35	6.33	24.08	1209	1.01	12,2	Black	None
1:40	0.5	3.5	0.1	3,34	6.24	24.07	1200	0.76	12.0	Clear	
11:45	0.5	4.0	0.1	3.34	6,20	24.07	1197	0.61	10.6		
11:50	0.5	4.5	0,1	3,35	6.17	24.04	1195	0.40	9.89		1.1
11:55	0.5	5.0	0.1	3.33	6.14	24.05	1190	0.36	9.28		
12:00	0,5	5,5	0.1	3.34	6.12	24.03	1195	0.29	8.68		
12:05	0.5	6.0	0.1	3,35	6.11	24.04	1197	0,28	7.70	V	Y
TUBING IN	ACITY (Gallons SIDE DIA. CAP EQUIPMENT C	ACITY (Gal./F	it.): 1/8" = 0.0	1" = 0.04; 0006; 3/16" BP = Bladder F	1.25" = 0.0 = 0.0014; Pump; E	1/4" = 0.002		.004; 3/8" = 0	The sum offer this is the second of the		" = 5.88 " = 0.016 r (Specify)
						LING DA	ATA				
Brach	& Bayn	Δ.	rkins	SAMPLER(S)	ISIGNATUR	E(S):	Bup	SAMPLING INITIATED A			12:07
PUMP OR	TUBING WELL (feet):	5		TUBING MATERIAL C	ODE: HD	PETS		o-FILTERED: (Y ion Equipment Ty		FILTER SIZE	:μm
Contraction of the second s	ONTAMINATIO	DN: PUM	-		TUBING	0	eplaced)	DUPLICATE:	Y (N	
SAMF	LE CONTAINE	R SPECIFICA	TION		SAMPLE PR	RESERVATIO	N	INTEND			AMPLE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVAT USED	IVE ADDE	TOTAL VOL ED IN FIELD (I	FINAL mL) pH	ANALYSIS A METHO			FLOW RATE nL per minute)
			see	cha	àin	of c	custo	du			
								3			
				-	-			1			
REMARKS	:							1			
MATERIAL	CODES:	AG = Amber	Glass; CG =	Clear Glass;	PE = Pol	yethylene;	PP = Polyprop	ylene; S = Silic	one; T = Teflo	n; O = Othe	er (Specify)
SAMPLING	EQUIPMENT	F	FPP = Revers	eristaltic Pump; se Flow Perista	Itic Pump;	SM = Straw		g Gravity Drain);	ric Submersible I 0 = Other (S		
NOTES: 1.	The above	do not cons	titute all of	the informat	ion require	ed by Chap	ter 62-160, F.	A.C.			

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

SITE NAME:	Sawa	Tass	Lak	e sit	e s	ITE OCATION:	1	Pinella	as Par	-K	
WELL NO:		nu-		SAMPLE		LMW	- 3R - 1			115/1	5
					PUR	GING DA	TA				
WELL DIAMETER			TER (inches):	14 DEI	TH - STA	eet to 13.1 f	eet TO WAT	ER (feet): 3,6	DI PURGI OR BA	E PUMP TYPE	istaltic
(only fill out	if applicable)			3.1	feet	3,61	feet) X TY X T	UBING LENGTH)	gallons/foot	VOLUME	gallons 0,214 gallons
	MP OR TUBIN WELL (feet):	⁶ 515		MP OR TUBING WELL (feet):		1		10.0% 10.0 ST 1.		OTAL VOLUN PURGED (gallo	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	темр. ([°] С)	COND. (circle units) μmhos/cm <u>or</u> μS/cm	DISSOLVED OXYGEN (circle units) mg/L <u>or</u> % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe) Slight
9:15	3.0	3.0	0.1	3,79	6.48	24.17	1304	0.53	1.71	Elear	
9:20	0.5	315	0.1	3.78	6.45	24,19	1307	0.44	1.31		V
9:25	0.5	4.0	0.1	3,79	6.43	24,19	1312	0.40	0.91		None
9:30	0.5	4.5	0.1	3.80	6.42	24,19	1315	0.41	0.89		
9:35	015	5.0	0.1	3,80	6.41	24,20	1316	0.40	1, 61	V	
TUBING IN	ACITY (Gallon SIDE DIA. CAR	PACITY (Gal.)	/Ft.): 1/8" = 0.0		' = 0.0014; Pump; E		6; 5/16" = 0 Submersible Pu	.004; 3/8" = 0.			" = 5.88 " = 0.016 • (Specify)
		CELLATION.		CAMPLED (6)		LING DA	ATA	1			
Brad	Bazne		kins	SAMPLER		W f	Brz	SAMPLING INITIATED AT		SAMPLING ENDED AT:	9:37
PUMP OR 1 DEPTH IN V		5.5		TUBING MATERIAL C	ODE: HT	PET	S Filtrati	o-FILTERED: Y		FILTER SIZE	:μm
FIELD DEC	ONTAMINATIO	DN: PUN	AP Y (N)	TUBING	Y N(re	eplaced)	DUPLICATE:	Y (
	LE CONTAINE # CONTAINERS			PRESERVAT	IVE	RESERVATIO TOTAL VOL ED IN FIELD (r	FINAL	INTENDE ANALYSIS AM METHOL	ND/OR EQUI	IPMENT I	AMPLE PUMP FLOW RATE nL per minute)
			See	Ch	ain	ofc	Eusta	ody			
							-				
REMARKS:	-							1			

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

SITE NAME:	Sawa	rass	Lak	e sit	re lu	TE DCATION:	Pin	ellas	Park		
WELL NO:		W-4		SAMPLE	10: 51	LMW	-4R-	1215	DATE: 12	2/15/	15
					PURC	SING DA	TA				
WELL DIAMETER	(inches):		TER (inches):	14 DEP	TH: 4 fe	et to 14 f	eet TO WATE	R (feet): 3,3	3 OR BA	ILER: Per	istalti
(only fill out i	if applicable)		= (14	feet -	3.33	feet) X	WELL CAPACI	gallons/foot		gallons
(only fill out i	f volume pu if applicable)	JRGE: 1 EQU	IPMENT VOL	= D ga	allons + (and 26 gallo		JBING LENGTH)	+ 012	gallons =	,214 gallons
INITIAL PUN DEPTH IN V	MP OR TUBING	° 5.5		IP OR TUBING	5,5	PURGIN	G AT: 7:39	PURGING ENDED AT: DISSOLVED		OTAL VOLUM PURGED (gallo	
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. ([°] C)	COND. (circle units) μmhos/cm <u>or</u> μS/cm	OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
8:09	3.0	3.0	0.1	3.43	6.55	24.47	799	1.48	1,99	Clear	None
8:14	0.5	3,5	D.1	3.45	6.41	24,53	787	1.21	1.31		
8:19	0.5	4.0	0.1	3.44	6.38	24.55	784	0.80	2.01		
8:24	0.5	4.5	0.1	3.44	6.36	24.55	784	0.51	1.82		
8:29	0.5	5.0	0.1	3.43	6.34	24.57	785	0.42	1.24	1	
8:34	0.5	5,5	0.1	3,43	6.34	24,57	785	0,39	1.30	V	V
TUBING INS	ACITY (Gallon SIDE DIA. CAI	PACITY (Gal./	Ft.): $1/8'' = 0.$	1" = 0.04; 0006; 3/16" BP = Bladder F		1/4" = 0.002		.004; 3/8" = 0	9		' = 5.88 ' = 0.016 (Specify)
FURGING	COPMENT	ODE3. D	- Daner,	DI - Diaddei i		LING D					
Brad	Bay		rkins	SAMPLERIS)			In	SAMPLING INITIATED A		SAMPLING ENDED AT:	-
PUMP OR T		5.5		TUBING MATERIAL C	ODE: H	OPET	S FIELD	-FILTERED: (Y on Equipment Ty		FILTER SIZE:	μm
	ONTAMINATIO	DN: PUN	IP Y IN		TUBING	Y (N)	eplaced)	DUPLICATE:		N	
			T		SAMPLE PI	RESERVATIO	N	INTEND	ED SAM	APLING SA	MPLE PUMP
SAMPLE ID CODE		MATERIAL CODE	VOLUME	PRESERVAT USED		TOTAL VOL ED IN FIELD (ANALYSIS A METHO			LOW RATE
			See	Cha	2	of	Custa	NPO			
			see	-119							
REMARKS:			1		12						
MATERIAL	CODES:	AG = Amber	Glasš; CG :	= Clear Glass;	PE = Pol	yethylene;	PP = Polypropy	vlene; S = Silic	one; T = Teflo	in; O = Othe	r (Specify)
SAMPLING	EQUIPMENT	CODES:	APP = After Pe RFPP = Rever	eristaltic Pump;	B = Ba		Bladder Pump; Method (Tubing		ric Submersible 0 = Other (S		

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: \pm 0.2 units Temperature: \pm 0.2 °C Specific Conductance: \pm 5% Dissolved Oxygen: all readings \leq 20% saturation (see Table FS 2200-2); optionally, \pm 0.2 mg/L or \pm 10% (whichever is greater) Turbidity: all readings \leq 20 NTU; optionally \pm 5 NTU or \pm 10% (whichever is greater)

DEP-SOP-001/01 FT 1000 General Field Testing and Measurement

Field Instrument Calibration Records

ARAME	TER: [c	heck only	one]	crent	red f	rom Pet	erson E	Enviro
	10. Sec. 10. Sec. 1	A second s						
STANDA	RDS: [S] the date th	pecify the ty	pe(s) of star	ndards used for c ared or purchased	alibration, d1	the origin of the	standards, the	standard
Stand	ard A	10	NTU	provide	ed b-	1 Peter	-son En	vironr
Stand	ard B	20	NTU					
Stand	ard C							
DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/15/15	7:19	A	10	10,1	1%0	Yes	Init.	BB
V	7:20	B	20	19.9	41%	Yes	Init.	BB
							-	
		10212						
					·			1 CO.
() () () () () () () () () ()								
					1			
	1							
	i (

Page 1 of 1

Page 1 of 1

DEP-SOP-001/01 FT 1000 General Field Testing and Measurement

Field Instrument Calibration Records

PARAME	TER: [c	heck only	one] (YSI 5 rented	from	Peter	son Erw	iron A
	PERATUR							
	BIDITY	1	RESIDUAL				IER	
values, and	the date th	ne standard	s were prep	ndards used for c ared or purchase	d1			
Standa	ard A	4.01	prov	ided by	lete	rson E	nviron	ment
Standa	ard B	7.00						
	ard C							
DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/15/15	7:15	A	4.01	4.00	L1010	Yes	Init.	BB
+	7:16	B	7,00	7.01	L1º10	Yes	Init,	BB
			1					
			1					
						-		
							1	

Page _____Of ____

DEP-SOP-001/01 FT 1000 General Field Testing and Measurement

Field Instrument Calibration Records

				YSI 55				
				rented				ironn
	BIDITY		RESIDUAL		00	OTH		
alues, and	the date th	e standards	were prepa	ndards used for c ared or purchased	d]	101 C 17 C 10 C 10 C 10 C 10 C 10 C 10 C		
Standa	ard A	000	45 p	rovided	by P	eterson	Enviro	onmen
				<u></u>				
Standa	ard C							
DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/15/15	7:13	A	1,000	1,002	<1%	Yes	Init.	BB
1								
-								
1					(
		1		1				
						1		÷
					1			
		_						
<								

Page 6 of 7

Page 1 of 1

DEP-SOP-001/01 FT 1000 General Field Testing and Measurement

Field Instrument Calibration Records

INSTRUM			one]	YSI 5! Crented	From	n Peters	Son Env	ironm
	PERATUF BIDITY		CONDUCT RESIDUAL	. /	ALINITY 00	1		
				ndards used for ca ared or purchased				
Standa	ard A _ S	3.56 m	ngle (ared or purchased	rovid	ed by	Peter	son
Standa	ard B						E	nviron
	ard C	075			1		-	011101 50
DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/15/15	7:10	A	2.56	8.56	0%	Yes	Init.	BB
					-			
		(
-	-							
		<u>,</u>						
					<u> </u>	-		
		- 1						
	-							
					Y			

ATTACHMENT B

Surface Water YSI Sampling Logs and Calibration Logs

Notebook # 151215DB1 Project: Surgress Lak	- Task:	WQ quarter!	Y	Page # 12	î.	
Date: 2015112115 (yy/mm/dd)	Ну	drolab/YSI Uni	t#: 901	1 Jett		
Calibration Book Number: 14091964		libration Book I				
Air Temperature:			DESE			
Tide Stage:A	Cle	oud Cover:	100%			
Reporting Unit Geo Stratum: Saugrass Leike Temperature	Specific Cond.	Salinity	рН	Dissolved Oxygen	Turbidity	Check If
Time On Depth (m) (C) Station 110 0.2 23.51	<u>(µS/cm)</u> 529	(ppt)	-	(mg/L)/(%)	(NTU)	Bottom
24 hr / FST		0:25	1.00	3.17 37.1		60
$0.5 \frac{25.50}{21.20}$	529	0.26	6.90	2.67/31,	5 1701	
Stratum/ 1.0 21.24	546	0.26	6.73	0.81 /9.	1 1.4	
Station # $SLSW - 1$ 2.5	567	. <u>0.27</u>	6.71	0,60 / 6.8	6 <u>[0, 0</u> 	
Alt # Lateral Pos 3.0 3.5						
Secchi depth 4.0						Π
(meters) 4.5						
Secchi @ bottom Yes 5.0						
Water depth 1.5 5.5 (water column depth) 6.5			_			
Latitude Degrees Decimal Minutes	Γ	Longitude Degrees	Decima	l Minutes		
Projected:		82				
Actual: 27. 83712		82 . (07542	2		
영양 방송 전에서 이상 방송에서 전에 가지 않는 것이까?	Custody Form					
Sample Taken Samples Processed	d Samples F	Preserved	Sediment Sar	mple Taken		
(check):]		
Field Notes: Wer sample depth time		depth	by sur	very rod		
0 1125		5,5		11		
1 1120						
2 1135						
3 1138)
Signed Date	-	Signed	Da	te		

ŝ

	51215DB1 P	roject: <u>3</u>				1	Page # <u>9</u>	L.N	
Date: 201.	1		(yy/mm/dd)	Ну	drolab/YSI Unit		1 451 6920	CH	
Calibration Bo		1409190	-1		libration Book I		affer 3		
Air Temperat					ind: <u>10-18</u>				
Tide Stage:				Clo	oud Cover:	100 210			
Reporting Uni Geo Stratum:	Saugras	Depth (m)	Temp- erature (C)	Specific Cond.	Salinity	рН	Dissolved Oxygen	Turbidity	Check If
Time On Station	0911		23.17	<u>(µS/cm)</u> 492	(ppt) 0.24	7.01	(mg/L)/(%) B. 65/10/.4	(NTU)	Bottom
-	24 hr. / EST	0.2				7.64			
	1	0.5	23.16	492	0.24	7.61	8.61/101.		
Stratum/	1	1.0	23.14	492	0.24	7.58	8.44/98.8		
	Chill of	1.5	23.11	493	0.24	7.50	8.12/95.0	B.9	
Station #	LSW-2	2.0	22.89	493	0.24	\$ 7.36	6.12/11.8	8.9	
,	1	2.5	22.57	494	024	7.12	5.34/61.8	1161	0.10
Alt #Lat	eral Pos. 🦯	_ 3.0							
		3.5							
Secchi depth		4.0							
	(meters)	4.5							
Secchi @ botto	m 🗌 Yes	5.0							
		5.5							П
Water depth	2.1	6.0							
(water column de	(meters)	6.5				-			
(nator continui dej		0.0		· · · · · ·	10000			·	
	Latitude Degrees	Decin	nal Minutes	D	Longitude Degrees	Decimal	Minutes		
Projected:					82				
rrojecteu:					82				
Actual:	27 , 1	34157	4		82 . 67	371			
Samples: Che	eck Container N	lumbers [Check	Custody Form	is 🗌				
	Sample Take	en Sa	imples Processe	d Samples P	reserved	Sediment San	nple Taken		
(check):		ve							
Field Notes:	0- 0931	,							
	1 0934				depth .	+ 11.2			
	3 093	1		by si	uney rod				
	5 093	19							
Signed			Date		Signed	Dat			

C:/Users/huds6335/Desktop/SL Data Form - Water Column Profile - JAH.doc Copied- Initial & date Entered- Initial & date

Date: <u>2015/12/15</u> Calibration Book Number: <u>140</u> Air Temperature:			Hydrolab/YSI Ur Calibration Book Wind: 5-/	1	3		1
Tide Stage:			Cloud Cover:	100%			
Reporting Unit Geo Stratum: Scurgrass	<u>uke</u> Temp eratu epth (m) (C)	o- Specific	Salinity (ppt)	рН	Dissolved Oxygen (mg/L)/(%)	Turbidity (NTU)	Check If
Time On Station 0945	0.2 23.2 4		0.24	7,82	8.85/103,7	9.0	Bottom
24 hr. / EST	0.5 23.24	491	0.24	7.79	8.84 / 103,6		
Stratum/	1.0 23.11	492	0.24	7.67	8.25/96,5		П
	1.5 22.93	493	0.24	1.52	7.10/82,4	+ 9,2	
Station # SLSW-3	2.0 22.53	5 494	0.24	1.25	6.05/70.1	9.4	
, ,	2.5 22.15	495	0.24	7.07	3.09/3514	10.8	
Alt # Lateral Pos.	3,0 21.93	496	0,24	6.85	1.81/20,7	12,3	É
	3.5						
Secchi depth (meters)	4.0			<u> </u>			
(meters)	4.5			-			
Secchi @ bottom 🗌 Yes	5.0						
20	5.5				-		
Water depth	6.0						
(water column depth)	6.5						Ц
Latitude Degrees	Decimal Minute	s	Longitude Degrees	Decim	al Minutes		
Projected:			82				
Actual: 27.840	58		82 . 6	7332			
Samples: Check Container Num	nbers 🗌 🖸	Check Custody Fo	rms				
Sample Taken	Samples Pro	cessed Sample	s Preserved	Sediment Sa	ample Taken		
(check):				E			
Field Notes:				deinten	by survey	neel	
Depth was sample	Ame			21	T'	1001	
0	0953						
1	0956						
3	09.58						
5	1000						

C:\Users\huds6335\Desktop\SL Data Form - Water Column Profile - JAH.doc Copied- Initial & date Entered- Initial & date

Notebook # 151215DB1 Pro	oject: Surgre	as Lacke Task	Wa quartery	saryfly	Page # _//		
Date: 2015/12/15	(yy/m	m/dd) H	lydrolab/YSI Un	it #:	Sett		
Calibration Book Number:	140919641		alibration Book	Page #:	3		
Air Temperature:		v	Vind:	5BE			
Tide Stage:			loud Cover:	1009.			
Reporting Unit Geo Stratum: <u>Saugras</u>		np- Specific ture Cond.	Salinity	рН	Dissolved Oxygen	Turbidity	Check If
THE UI	Depth (m)(<u>C) (µS/cm)</u>	(ppt)		(mg/L)/(%)	(NTU)	Bottom
Station 1005		15 491	0.24	7.82	8.67/101.5	8.7	
24 hr. / EST	0.5 23.		0,24	7.77	8.22/96.1	8.6	
Stratum/	1.0 23.0		a24	7.74	7.72/90.1	6.5	
	1.5 22,		0,24	7.58	7.39 86.2	8.6	
Station # <u>SLSW-4</u>	2.0 22.		924	7.22	4.95/57.1	9.0	
1 1	2.5 22.0		024	6.95	2,06/23,1		
Alt # Lateral Pos,	3,0 21.9	11 495	0,24	6.90	1.57/17.9	12.2	
	3.5	_					
Secchi depth(meters)	4.0						
(1101015)	4.5						
Secchi @ bottom Yes	5.0				í	··	
	5.5						
Water depth(meters)	6.0				1		
(water column depth)	6.5	<u> </u>					
Latitude Degrees	Decimal Minu	ites	Longitude Degrees	Decimal	Minutes		
Projected:			82				
Actual: 27	83997		82 .672	258			
Samples: Check Container Nu	imbers	Check Custody For	ms				
Sample Taken	Samples P	rocessed Samples	Preserved	Sediment San	nple Taken		
(check):							
Field Notes: Delpth Wg	samples	Time	de	joth la	y survey 1	rod	
	0	1028		1	12.1		
	1	1030			160		
E	BUP	1032					
	e l	1030					
	AB						
Signed	Date		Signed	Dat	e		

C:/Users/huds6335/Desktop/SL Data Form - Water Column Profile - JAH.doc Copied- Initial & date Entered- Initial & date

HYDROLAB/YSI CALIBRATION SHEET

Book # 140919CL1



Project Sawgruss		Task
Display Model 650 MDS		Sonde Model 6920 V2
Unit Serial# _ Geit / Jeff		Name of Calibrator JIW
Date 15/12/14	Time	12:53

ICV represents the Initial Calibration Verification. This should be completed in run mode after the instrument has been calibrated with the standard solution still in the calibration cup. NOTE: All optical sensors MUST be calibrated in the upright position.

1. SPECIFIC CONDUCTIVITY:

a. Rinse twice with Hi standard (standards must "bracket" observed field values)b. Fill cup with conductivity standard (insure vent hole is covered)

	Standard µS/cm	Lot ID#	Standard Temp (°C)	Before µS/cm	After µS/cm	Cal. Constant	ICV µS/cm	Pass (Y/N) +/- 5%
Hi	53000	1504153	25.34	53440	53000	4.91327	53001	Y
Low	500	150504A	25.30	\ge	\times	\geq	516	Y

- c. Rinse twice with D.I. water
- d. Perform check with Low standard

a. Rinse twice with pH 7 standard b. Fill cup with pH 7 standard

Standard	Lot ID#	Standard Temp (°C)	Before	After	Pass (Y/N) +/- 0.2	mV
7.00	15091517	25.11	7.08	7:05	Y	- 32,4

c. Rinse twice with clean water

d. Rinse twice with pH 10 standard

e. Fill cup with pH 10 standard

Standard	Lot ID#	Standard Temp (°C)	Before	After	ICV	Pass (Y/N) +/- 0.2	mV
10.00	ITOSOVE	25.31	9.95	10.00	10.00	Y	-183.14

f. Rinse twice with clean water

g. Repeat steps a and b and check ph 7 again

Standard	Lot ID#	Standard Temp (°C)	ICV	Pass (Y/N) +/- 0.2	Cal. Constant
7.00	1509 15A	25.12	7.01	Y	-5.922

h. Rinse twice with D.I. water

j. Rinse twice with clean water

3. DISSOLVED OXYGEN:

a. Place in a bucket with oxygen saturated water (air stone min. 1 hour); allow to equilibrate.

Temp (°C)	Bar. Press	Before mg/L	Before %	Theoretical mg/L (from chart)	Pass (Y/N) +/- 0.3 mg/L	DOC	harge	
24.23	760.0	8.39	100.3	\$ 387	Y		-	
After mg/L	After %	ICV Temp (°C)	ICV mg/L	ICV %	Theor mg/L chart)	(from	Pass (Y/N) +/- 0.3 mg/L	Cal. Constant
8-36	100.0	24.23	8.38	100.Z	8	387	Ч	1.07 006

b. Rinse twice with clean water

²a. pH

HYDROLAB/Y	SI CALIE	SKATIO	N SHEE	T		Book #	140919	CLI	Page	#		
4. DEPTI	I (at surface	e): I	Depth be	efore	- 0,	023M	Depth a	lfter _	5.000	m	-	
5. BATTE	ERY CHE					12.2					-	
6. NOTES	i: <u> </u>	πυ	0 -	⇒ (ଚ						-	
1) Son 2) Sur	face Unit	Ċ	bd	N	linor F	Repairs		ajor Re	pairs			
3) Cal 3.0 CALIBRA	TION VI	and the second se	ATION	Con Line	8-Ho	<u>ur</u>		an an	After	Use		_
3.0 CALIBRA		and the second se	ATION		8-Ho	<u>(//////</u> ur			After	Use		
3.0 CALIBRA	TION VI	and the second se	ATION		8-Ho	ur			After	Use		
3.0 CALIBRA Date Time Name of	TION VI	and the second se	ATION		8-Ho	<u>ur</u>			After	Use		
3.0 CALIBRA Date Time Name of	TION VI	and the second se	4-Hour Check	Pass? Pass? (Y/N)	8-Hour Solution 0H-8	8-Hour Solution Temp.	8-Hour Check	Pass? (Y/N)			After Use Check	Pass? (Y/N)
B.0 CALIBRA Date Time Name of Calibrator	ATION VI 4-Hou	ir					8-Hour Check	Pass? (Y/N)	After Use Solution	After Use Solution Temp.	After Use Check	Pass? (Y/N)
B.0 CALIBRA Date Time Name of Calibrator	ATION VI 4-Hou	ir					8-Hour Check	Pass? (Y/N)			After Use Check	Pass? (Y/N)
B.0 CALIBRA Date Time Name of Calibrator Conductivity (high) Conductivity (low)	ATION VI 4-Hou	ir					8-Hour Check	Pass? (Y/N)			After Use Check	Pass? (Y/N)
B.0 CALIBRA Date Time Name of Calibrator Conductivity (high) Conductivity (high) Conductivity (low) pH Dissolved	ATION VI 4-Hou	ir					8-Hour Check	Pass? (Y/N)			After Use Check	Pass? (Y/N)
8.0 CALIBRA Date Time Name of Calibrator	ATION VI 4-Hou	ir					8-Hour Check	Pass? (Y/N)			After Use Check	Pass? (Y/N)

Does Unit Pass Post Calibration Check?

Yes 🗀 No 🗀 *

• Note: If the unit does not pass post calibration check then data can not be entered into the data base without approval of QA/QC Office and/or Project Manager. Also, call Lab and put hold on chemistry parameters with long holding times.

2015/12/15 som - Signature and Date feld Reviewer

Field Recorder - Signature and Date

Copied - Initial & Date

Entered - Initial & Date

ATTACHMENT C

Groundwater Laboratory Analytical Reports



Pace Analytical Services, Inc. 5460 Beaumont Center Blvd - Suite 520 Tampa, FL 33634 (813)881-9401

December 22, 2015

Matt Starr Atkins North America 4030 West Boy Scout Blvd., Su Tampa, FL 33607

RE: Project: Sawgrass Lake GW Pace Project No.: 35221165

Dear Matt Starr:

Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Muchael W. Palmen

Mike Palmer for Mike Valder mike.valder@pacelabs.com Project Manager

Enclosures

cc: Bradley Bayne, Atkins Golbal



REPORT OF LABORATORY ANALYSIS



Pace Analytical Services, Inc. 5460 Beaumont Center Blvd - Suite 520 Tampa, FL 33634 (813)881-9401

CERTIFICATIONS

Project: Sawgrass Lake GW

Pace Project No.: 35221165

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174 Alabama Certification #: 41320 Connecticut Certification #: PH-0216 Delaware Certification: FL NELAC Reciprocity Florida Certification #: E83079 Georgia Certification #: 955 Guam Certification: FL NELAC Reciprocity Hawaii Certification: FL NELAC Reciprocity Illinois Certification #: 200068 Indiana Certification: FL NELAC Reciprocity Kansas Certification #: E-10383 Kentucky Certification #: 90050 Louisiana Certification #: FL NELAC Reciprocity Louisiana Environmental Certificate #: 05007 Maryland Certification: #346 Michigan Certification #: 9911 Mississippi Certification: FL NELAC Reciprocity Missouri Certification #: 236 Montana Certification #: Cert 0074

Tampa Certification IDs

5460 Beaumont Center Blvd, Ste 520, Tampa, FL 33634

Nebraska Certification: NE-OS-28-14 Nevada Certification: FL NELAC Reciprocity New Hampshire Certification #: 2958 New York Certification #: 11608 North Carolina Environmental Certificate #: 667 North Carolina Certification #: 12710 North Dakota Certification #: R-216 Oklahoma Certification #: D9947 Pennsylvania Certification #: 68-00547 Puerto Rico Certification #: FL01264 South Carolina Certification: #96042001 Tennessee Certification #: TN02974 Texas Certification: FL NELAC Reciprocity US Virgin Islands Certification: FL NELAC Reciprocity Virginia Environmental Certification #: 460165 West Virginia Certification #: 9962C Wisconsin Certification #: 399079670 Wyoming (EPA Region 8): FL NELAC Reciprocity

Florida Certification #: E84809

REPORT OF LABORATORY ANALYSIS


SAMPLE SUMMARY

Project: Sawgrass Lake GW Pace Project No.: 35221165

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35221165001	SLMW-4R-1215	Water	12/15/15 08:36	12/15/15 13:55
35221165002	SLMW-3R-1215	Water	12/15/15 09:37	12/15/15 13:55
35221165003	SLMW-1R-1215	Water	12/15/15 10:50	12/15/15 13:55
35221165004	Dup C-1215	Water	12/15/15 10:50	12/15/15 13:55
35221165005	SLMW-2R-1215	Water	12/15/15 12:07	12/15/15 13:55



Project: Sawgrass Lake GW Pace Project No.: 35221165

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35221165001	SLMW-4R-1215	EPA 6010	SAM	2	PASI-Tp
		EPA 6010	SAM	5	PASI-Tp
		SM 2540C	КСТ	1	PASI-O
35221165002	SLMW-3R-1215	EPA 6010	SAM	2	PASI-Tp
		EPA 6010	SAM	5	PASI-Tp
		SM 2540C	КСТ	1	PASI-O
35221165003	SLMW-1R-1215	EPA 6010	SAM	2	PASI-Tp
		EPA 6010	SAM	5	PASI-Tp
		SM 2540C	CLS	1	PASI-O
35221165004	Dup C-1215	EPA 6010	SAM	2	PASI-Tp
		EPA 6010	SAM	5	PASI-Tp
		SM 2540C	CLS	1	PASI-O
35221165005	SLMW-2R-1215	EPA 6010	SAM	2	PASI-Tp
		EPA 6010	SAM	5	PASI-Tp
		SM 2540C	CLS	1	PASI-O



Project: Sawgrass Lake GW

Pace Project No.: 35221165

Sample: SLMW-4R-1215	Lab ID:	35221165001	Collected	: 12/15/15	5 08:36	Received: 12/	15/15 13:55 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA 6	010 Prepara	ation Methe	od: EPA	3010			
Arsenic, Dissolved	5.3 U	ug/L	10.0	5.3	1	12/18/15 09:06	12/18/15 19:33	7440-38-2	
Lead, Dissolved	8.5 U	ug/L	15.0	8.5	1	12/18/15 09:06	12/18/15 19:33	7439-92-1	
6010 MET ICP, Tampa	Analytical	Method: EPA 6	010 Prepara	ation Methe	od: EPA	3010			
Arsenic	5.3 U	ug/L	10.0	5.3	1	12/18/15 09:06	12/18/15 19:06	7440-38-2	
Calcium	113000	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:56	7440-70-2	
Lead	8.5 U	ug/L	15.0	8.5	1	12/18/15 09:06	12/18/15 19:06	7439-92-1	
Magnesium	12300	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:56	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	334000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:56		
2540C Total Dissolved Solids	Analytical	Method: SM 25	40C						
Total Dissolved Solids	599	mg/L	5.0	5.0	1		12/18/15 16:27		



Project: Sawgrass Lake GW

Pace Project No.: 35221165

Sample: SLMW-3R-1215	Lab ID:	35221165002	Collected	1: 12/15/18	6 09:37	Received: 12/	15/15 13:55 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA 6	010 Prepar	ation Meth	od: EPA	A 3010			
Arsenic, Dissolved	5.3 U	ug/L	10.0	5.3	1	12/18/15 09:06	12/18/15 19:35	7440-38-2	
Lead, Dissolved	8.5 U	ug/L	15.0	8.5	1	12/18/15 09:06	12/18/15 19:35	7439-92-1	
6010 MET ICP, Tampa	Analytical	Method: EPA 6	010 Prepar	ation Meth	od: EPA	A 3010			
Arsenic	5.3 U	ug/L	10.0	5.3	1	12/18/15 09:06	12/18/15 19:08	7440-38-2	
Calcium	232000	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:58	7440-70-2	
Lead	8.5 U	ug/L	15.0	8.5	1	12/18/15 09:06	12/18/15 19:08	7439-92-1	
Magnesium	17000	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:58	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	649000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:58		
2540C Total Dissolved Solids	Analytical	Method: SM 25	40C						
Total Dissolved Solids	1040	mg/L	10.0	10.0	1		12/18/15 16:28		



Project: Sawgrass Lake GW

Pace Project No.: 35221165

Sample: SLMW-1R-1215	Lab ID:	35221165003	Collected	d: 12/15/18	5 10:50	Received: 12/	15/15 13:55 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA 6	010 Prepar	ation Meth	od: EPA	A 3010			
Arsenic, Dissolved	5.3 U	ug/L	10.0	5.3	1	12/18/15 09:06	12/18/15 19:37	7440-38-2	
Lead, Dissolved	8.5 U	ug/L	15.0	8.5	1	12/18/15 09:06	12/18/15 19:37	7439-92-1	
6010 MET ICP, Tampa	Analytical	Method: EPA 6	010 Prepar	ation Meth	od: EPA	A 3010			
Arsenic	5.3 U	ug/L	10.0	5.3	1	12/18/15 09:06	12/18/15 19:18	7440-38-2	
Calcium	387000	ug/L	5000	2500	10	12/18/15 09:06	12/18/15 16:12	7440-70-2	
Lead	8.5 U	ug/L	15.0	8.5	1	12/18/15 09:06	12/18/15 19:18	7439-92-1	
Magnesium	133000	ug/L	5000	2500	10	12/18/15 09:06	12/18/15 16:12	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	1510000	ug/L	33000	16000	10	12/18/15 09:06	12/18/15 16:12		
2540C Total Dissolved Solids	Analytical	Method: SM 25	40C						
Total Dissolved Solids	2290	mg/L	10.0	10.0	1		12/20/15 16:09		



Project: Sawgrass Lake GW

Pace Project No.: 35221165

Sample: Dup C-1215	Lab ID:	35221165004	Collected	d: 12/15/18	5 10:50	Received: 12/	15/15 13:55 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA 6	010 Prepai	ration Meth	od: EPA	A 3010			
Arsenic, Dissolved	5.3 U	ug/L	10.0	5.3	1	12/18/15 09:06	12/18/15 19:45	7440-38-2	
Lead, Dissolved	8.5 U	ug/L	15.0	8.5	1	12/18/15 09:06	12/18/15 19:45	7439-92-1	
6010 MET ICP, Tampa	Analytical	Method: EPA 6	010 Prepa	ration Meth	od: EPA	A 3010			
Arsenic	5.3 U	ug/L	10.0	5.3	1	12/18/15 09:06	12/18/15 19:20	7440-38-2	
Calcium	378000	ug/L	5000	2500	10	12/18/15 09:06	12/18/15 16:14	7440-70-2	
Lead	8.5 U	ug/L	15.0	8.5	1	12/18/15 09:06	12/18/15 19:20	7439-92-1	
Magnesium	135000	ug/L	5000	2500	10	12/18/15 09:06	12/18/15 16:14	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	1500000	ug/L	33000	16000	10	12/18/15 09:06	12/18/15 16:14		
2540C Total Dissolved Solids	Analytical	Method: SM 25	40C						
Total Dissolved Solids	2160	mg/L	10.0	10.0	1		12/20/15 16:09		



Project: Sawgrass Lake GW

Pace Project No.: 35221165

Sample: SLMW-2R-1215	Lab ID:	35221165005	Collected	d: 12/15/18	5 12:07	Received: 12/	15/15 13:55 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical	Method: EPA 6	010 Prepar	ation Meth	od: EPA	3010			
Arsenic, Dissolved	5.3 U	ug/L	10.0	5.3	1	12/18/15 09:06	12/18/15 19:47	7440-38-2	
Lead, Dissolved	8.5 U	ug/L	15.0	8.5	1	12/18/15 09:06	12/18/15 19:47	7439-92-1	
6010 MET ICP, Tampa	Analytical	Method: EPA 6	010 Prepar	ation Meth	od: EPA	3010			
Arsenic	5.3 U	ug/L	10.0	5.3	1	12/18/15 09:06	12/18/15 19:22	7440-38-2	
Calcium	201000	ug/L	500	250	1	12/18/15 09:06	12/18/15 16:04	7440-70-2	
Lead	8.5 U	ug/L	15.0	8.5	1	12/18/15 09:06	12/18/15 19:22	7439-92-1	
Magnesium	36600	ug/L	2500	1250	5	12/18/15 09:06	12/18/15 16:16	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	653000	ug/L	16500	8000	5	12/18/15 09:06	12/18/15 16:16		
2540C Total Dissolved Solids	Analytical	Method: SM 25	40C						
Total Dissolved Solids	1020	mg/L	5.0	5.0	1		12/20/15 16:10		



Project:	Sawgrass L	ake GW											
Pace Project No.:	35221165												
QC Batch:	TAMP/808	6		Analysi	s Method:	E	PA 6010						
QC Batch Method:	EPA 3010			Analysi	s Descripti	ion: 6	010 MET Fil	tered					
Associated Lab San	nples: 352	21165001,	35221165002,	352211650	03, 35221	165004, 3	5221165005						
METHOD BLANK:	1425739			M	latrix: Wat	er							
Associated Lab San	nples: 352	21165001,	35221165002,	352211650	03, 35221	165004, 3	5221165005						
				Blank	Re	eporting							
Paran	neter		Units	Result		Limit	MDL		Analyzed	Qua	alifiers		
Arsenic, Dissolved			ug/L	5.	.3 U	10.0)	5.3 12	2/18/15 19:2	4			
Lead, Dissolved			ug/L	8	.5 U	15.0		8.5 12	2/18/15 19:2	4			
LABORATORY COM	NTROL SAM	PLE: 142	25740										
				Spike	LCS		LCS	% R	ec				
Paran	neter		Units	Conc.	Resu	lt	% Rec	Limi	ts Q	ualifiers			
Arsenic, Dissolved			ug/L	250		233	93	8	30-120		-		
Lead, Dissolved			ug/L	250		245	98	8	30-120				
MATRIX SPIKE & M	IATRIX SPIK		ATE: 142574	11		1425742							
				MS	MSD								
		3	35221165001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	r	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Arsenic, Dissolved		ug/L	5.3 U	250	250	234	223	94	4 89	75-125	5	20	
Lead, Dissolved		ug/L	8.5 U	250	250	253	248	10 ⁻	1 99	75-125	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Sawgrass Lake GW

Pace Project No.: 35221165

QC Batch:	TAM	P/8085		Analysis M	lethod:	EPA 6010
QC Batch Method:	EPA	3010		Analysis D	escription:	6010 MET Tampa
Associated Lab Sam	ples:	35221165001	35221165002	35221165003,	35221165004,	35221165005

 METHOD BLANK:
 1425735
 Matrix:
 Water

 Associated Lab Samples:
 35221165001, 35221165002, 35221165003, 35221165004, 35221165005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	5.3 U	10.0	5.3	12/18/15 18:58	
Calcium	ug/L	250 U	500	250	12/18/15 15:48	
Lead	ug/L	8.5 U	15.0	8.5	12/18/15 18:58	
Magnesium	ug/L	250 U	500	250	12/18/15 15:48	
Tot Hardness asCaCO3 (SM 2340B	ug/L	1600 U	3300	1600	12/18/15 15:48	

LABORATORY CONTROL SAMPLE: 1425736

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	250	214	86	80-120	
Calcium	ug/L	12500	12500	100	80-120	
Lead	ug/L	250	233	93	80-120	
Magnesium	ug/L	12500	12200	98	80-120	
Tot Hardness asCaCO3 (SM 2340B	ug/L	82700	81700	99	80-120	

MATRIX SPIKE & MATRIX SPIK		CATE: 14257	37		1425738							
Parameter	Units	35221165001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	5.3 U	250	250	223	222	89	89	75-125	0	20	
Calcium	ug/L	113000	12500	12500	125000	126000	91	97	75-125	1	20	
Lead	ug/L	8.5 U	250	250	233	238	93	95	75-125	2	20	
Magnesium	ug/L	12300	12500	12500	23800	24100	92	94	75-125	1	20	
Tot Hardness asCaCO3 (SM 2340B	ug/L	334000	82700	82700	410000	413000	92	95	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



•	Sawgrass Lake G 35221165	SW							
QC Batch:	WET/34770		Analysis M	lethod:	SM 2540	С			
QC Batch Method:	SM 2540C		Analysis D	escription:	2540C To	otal Disso	olved Solids		
Associated Lab Sam	ples: 35221168	5001, 35221165002							
METHOD BLANK:	1425717		Matr	ix: Water					
Associated Lab Sam	ples: 3522116	5001, 35221165002							
Param	eter	Units	Blank Result	Reporting Limit	-	IDL	Analyz	zed	Qualifiers
Total Dissolved Solid	S	mg/L	5.0	U	5.0	5.0) 12/18/15	16:18	
LABORATORY CON	TROL SAMPLE:	1425718							
Param	eter	Units	Spike Conc.	LCS Result	LCS % Rec		% Rec Limits	Qua	alifiers
Total Dissolved Solid	S	mg/L	300	304		101	90-110		
SAMPLE DUPLICAT	E: 1426681								
			35220982008				Max		
Param	eter	Units	Result	Result	F	PD	RPD		Qualifiers
Total Dissolved Solid	S	mg/L	90	0	884	2	2	5	
SAMPLE DUPLICAT	E: 1426682								
			35221119001	- 1			Max		
Param	eter	Units	Result	Result	F	PD	RPD		Qualifiers
Total Dissolved Solid	s	mg/L	153	0 1	530	C)	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:	Sawgrass Lake (35221165	GW					
Pace Project No.:	WET/34790		Analysis M	athad:	SM 2540C		
QC Batch Method:	SM 2540C		•			Dissolved Solids	
			Analysis De	escription:	2540C 10tal L	Jissolved Solids	
Associated Lab San	nples: 3522116	5003, 3522116500	4, 35221165005				
METHOD BLANK:	1427783		Matrix	k: Water			
Associated Lab San	nples: 3522116	5003, 3522116500	4, 35221165005				
			Blank	Reporting			
Paran	neter	Units	Result	Limit	MDL	Analyz	ed Qualifiers
Total Dissolved Soli	ds	mg/L	5.0 L	J 5	.0	5.0 12/20/15	16:07
LABORATORY COM	NTROL SAMPLE:	1427784					
			Spike	LCS	LCS	% Rec	
Paran	neter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Total Dissolved Soli	ds	mg/L	300	304	101	90-110	
SAMPLE DUPLICA	TE: 1427785						
			35221877001	Dup		Max	
Paran	neter	Units	Result	Result	RPD	RPD	Qualifiers
Total Dissolved Soli	ds	mg/L	285	5 30	08	8	5 J(D6)
SAMPLE DUPLICA	TE: 1427786						
			35221072001	Dup		Max	
Paran	neter	Units	Result	Result	RPD	RPD	Qualifiers
	ds	mg/L	2430	259		7	5 J(D6)

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: Sawgrass Lake GW

Pace Project No.: 35221165

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

PASI-Tp Pace Analytical Services - Tampa

ANALYTE QUALIFIERS

U Compound was analyzed for but not detected.

J(D6) Estimated Value. The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	Sawgrass Lake GW
Pace Project No.:	35221165

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35221165001	SLMW-4R-1215	EPA 3010	TAMP/8086	EPA 6010	TAMP/8092
35221165002	SLMW-3R-1215	EPA 3010	TAMP/8086	EPA 6010	TAMP/8092
35221165003	SLMW-1R-1215	EPA 3010	TAMP/8086	EPA 6010	TAMP/8092
35221165004	Dup C-1215	EPA 3010	TAMP/8086	EPA 6010	TAMP/8092
35221165005	SLMW-2R-1215	EPA 3010	TAMP/8086	EPA 6010	TAMP/8092
35221165001	SLMW-4R-1215	EPA 3010	TAMP/8085	EPA 6010	TAMP/8090
35221165002	SLMW-3R-1215	EPA 3010	TAMP/8085	EPA 6010	TAMP/8090
35221165003	SLMW-1R-1215	EPA 3010	TAMP/8085	EPA 6010	TAMP/8090
35221165004	Dup C-1215	EPA 3010	TAMP/8085	EPA 6010	TAMP/8090
35221165005	SLMW-2R-1215	EPA 3010	TAMP/8085	EPA 6010	TAMP/8090
35221165001	SLMW-4R-1215	SM 2540C	WET/34770		
35221165002	SLMW-3R-1215	SM 2540C	WET/34770		
35221165003	SLMW-1R-1215	SM 2540C	WET/34790		
35221165004	Dup C-1215	SM 2540C	WET/34790		
35221165005	SLMW-2R-1215	SM 2540C	WET/34790		



WO#:35221165 35221165

DF-CUSTODY / Analytical Request Document -Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A		33221105								Section														1				1.26.	
	Client Information:		Required Pro Report To:		-		P.	0	_	Attent	-	ormati		10	2.1		57	~				-	1	1	Page	e :	1	Of	1
ompany ddress:	ATKINS Global 4030 West Boy Scout Blvd., St			Matt 8		rad	PA	gne	-		any N	lame.	-		-	15		01)				-							
duress.	Tampa, FL 33607		copy to. p	rut	15-	tarr	-	01	-	Addre		ame.	-		-		0.5		-				-		Re	aulat	ory Agenc	v	
mail:	natthew.starr@atkinsglobal.com	boy	Purchase Ord	en# 1	hone	81		31	17		Quote	a.		50	4D	e			_			-	-	-	Ne	guia	ory Agent	/	
hone:	727-409-0723 Fax	6000	Project Name		awgrass L		2	- 83				t Man	ager:	m	ike va	alder@	nace	labs	com				-		9	State	Location		
	d Due Date: 5 Landay	-	Project #:		angrass c	ane off			-		Profile		6964			inder (d	pucc	1005.0	com,							Juic	FL		
ioqueete	Standay	XI.	0.0.0 1 - 2000	-										into e	-		1		Re	quested	Anal	vsis Fi	Itered ((Y/N)		T			
				2						100	-		~ ~	-		-	123	-			T	T		TT		1			
			1.1	o lef									1000		4		Ň					1.0				100			
		MATRIX Drinking Wa	CODE ater DW	(see valid codes to left)		COLLE	ECTED		No	10	-	Pre	eserv	ative	2S	T	-		-	8	-	-		-	-				
		Water	WT	00 0	2				COLLECTION									T-hardne		olve	l h								
		Waste Wate Product	er WW	(see valid of					E								#	÷		Siss			1.0			N)			
	SAMPLE ID	Soil/Solid	SL	ee ee	ST	ART	E	ND	8	S							le,	6y		βγ			1.0			e			
	One Character per box.	Oil Wipe	OL WP			1			TEMP AT	E H							S	Ca		Cal						Chlorine (Y/N)			
	(A-Z, 0-9/, -)	Air Other	AR OT	DO A		1000			EM	TAII	ved						Š	, Po		Pb.						CPI			
# V	Sample Ids must be unique	Tissue	TS	X	i.	1 1			Ē	NO	ser			TO			Analyses Test	As,		As,						lual			
ITEM				MATRIX CODE		1000	1000	Sec.	SAMPLE	# OF CONTAINERS	Unpreserved	HN03	Ρ̈́	HOBN	Methanol	Other	Ā	6010 As, Pb, Ca, Mg	TDS	6010 As, Pb, Ca, Mg Dissolve						Residual (
=	e	-	-				DATE	TIME	ŝ			-	T	ZZ	2 2	0		1			-	-			-	۳	-		
1	5LMW-4R		5 w		. 110			8:36		3	1	2	_	_				V	-	V	_	-					Rur		1
2	SLMW-3R	2-121	5 W	TG	12/15	9:35	12/15	9:37		3	1	2				1		V	V	V							Dis.	Solv	ed
3	SLMW-11	R-121	5 W	TE	12/15	10:45	12/15	10:50		3	1	2						V	V	V							on	1-1-1	for
4	Dup C -	1215	W	TE	5 12/15	10:45	12/15	10150		3	1	2						V	V	V							As	seni	c
5	SLMW-Z		5 W	TG	12/15			12:07		3	1	2		1				V	V	V							and	1	- 1
6		1, 121	,		1.1.1	190	-p=								T					11/22						1	erric		<u>.</u>
																17										1	-		
7				-	-				-		-			-	1	1			-										
8					-	1					+	-		-	+	1		-		-									
9										-	+		\square	-	+	+			-	-		-	+	-					
10				+		-	-	-	-	-	-			-	+	-				-		-		-	-		-		
11					-				-		+	-		-	+				-	-		-		-	-		-		_
12			-		JISHED BY /			DATE			IME	-			CCER	TED B				_	1	DAT	-	TIME			SAMPLEC	ONDITIONS	1
	ADDITIONAL COMMENTS		-	ELINQU	janeo BY/	bAco	12	11	-			-	1	2	UCEP	/	17	5			-	12.4	-	-	-	-	SAMPLE C	ONDITIONS	
_		Empty Contain	iers	~	-	The		15/17	-	134	V	-	16	12	n	- 1	4/4	A	1			2/8		15:0		-			
Metals for No filters r	total & dissolved=T-Hardness.As.Pb.Ca.Mg		110	5 .	~ AI	12	/	1215	5/15	12	TE	51	11	11.	10	an	10th	K	P	ace		215	115	1354	5		1111	(i ri)	
to milers I	CCUCU		In	W	- /(m		1011-	112	1-			au	200	Y.	v sp			4	nu	- ľ	12	10		-		1		
			10		1		-												-			_			_		1		
			11.11]	
						SAMPLE	RNAME	AND SIG	NATU	JRE		1			-	-	-									1.0			1
								of SAMP							-											C L	ed on	λ.	se
						SIG	NATURE	of SAMP	LER:									E	DATE	Signed	:				-	TEMP	Receiv ce Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Prace Analytical	Document Name: Sample Condition Upon Receip	ot Form	A	August 11, 2014
Honda Laboratory	Document No.: F-FL-C-007 rev. 06			ssuing Authority: Florida Quality Office
Sam	ole Condition Upon Receipt	Form (SCUR)		Table Number:
	Client Name: A+Kin	<u> </u>	Project # 3	5221165
Courier: 🔲 Fed Ex 🗌 UPS] USPS 🔀 Client 🔲 Commercial	Pace	Other	
Tracking #				
Custody Seal on Cooler/Box Pr	- /	ntact: 🛛 yes 🗋 no	Date and Initia	1/2/15/15
그는 그 것은 것이 같은 물건을 했다.	Irap Bubble Bags None	1	Contents0	
Thermometer Used	Type of Ice: Wet	0	US (Terr	p should be above freezing to 6°C).
Cooler Temperature $c_{1.3}$	_(Visual)(Correction F	actor)	(Actual) samp	ble frozen?
	0 يا ر	1.9	□Y	
Receipt of samples satisfact	(uested on COC:
If yes, then all conditions below		If no, then mark box	a describe issue	(use comments area if ne
Chain of Custody Present Chain of Custody Filled Out				
Relinguished Signature & Sample				
Samples Arrived within Hold Time	3			
			*	
Sufficient Volume		<u> </u>		
Correct Containers Used Containers Intact				
Sample Labels match COC (sam	ple IDs & date/time of collection)			
		No Labels: 🛛 No	o Time/Date on Lab	els:
All containers needing preservation a				
compliance with EPA recommendation No Headspace in VOA Vials (>6				
Client Notification/ Resolution:				
Person Contacted:	Date/T	ime:		
Comments/ Resolution (use back	(for additional comments):			
Project Manager Review:			Date:	
1				
	Finished Product Int	formation Only		
	T moneu Floudet III			
F.P. Sample ID:		S		ottles Received
Production Code:			X :	
			× ·	1 Gal
Date/Time Opened:			X :	
Number of Unopened Bottles F	Remaining:	i ce	X :	250 mL Other:
Extra Sample in SI	ned: Yes No		^ ^	<u> </u>

Page 17 of 17

ATTACHMENT D

Surface Water Laboratory Analytical Reports



Pace Analytical Services, Inc. 5460 Beaumont Center Blvd - Suite 520 Tampa, FL 33634 (813)881-9401

December 23, 2015

Matt Starr Atkins North America 4030 West Boy Scout Blvd., Su Tampa, FL 33607

RE: Project: Sawgrass Lake SW Pace Project No.: 35221170

Dear Matt Starr:

Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Muchael W. Palmen

Mike Palmer for Mike Valder mike.valder@pacelabs.com Project Manager

Enclosures

cc: Bradley Bayne, Atkins Golbal





Pace Analytical Services, Inc. 5460 Beaumont Center Blvd - Suite 520 Tampa, FL 33634 (813)881-9401

CERTIFICATIONS

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174 Alabama Certification #: 41320 Connecticut Certification #: PH-0216 Delaware Certification: FL NELAC Reciprocity Florida Certification #: E83079 Georgia Certification #: 955 Guam Certification: FL NELAC Reciprocity Hawaii Certification: FL NELAC Reciprocity Illinois Certification #: 200068 Indiana Certification: FL NELAC Reciprocity Kansas Certification #: E-10383 Kentucky Certification #: 90050 Louisiana Certification #: FL NELAC Reciprocity Louisiana Environmental Certificate #: 05007 Maryland Certification: #346 Michigan Certification #: 9911 Mississippi Certification: FL NELAC Reciprocity Missouri Certification #: 236 Montana Certification #: Cert 0074

Tampa Certification IDs

5460 Beaumont Center Blvd, Ste 520, Tampa, FL 33634

Nebraska Certification: NE-OS-28-14 Nevada Certification: FL NELAC Reciprocity New Hampshire Certification #: 2958 New York Certification #: 11608 North Carolina Environmental Certificate #: 667 North Carolina Certification #: 12710 North Dakota Certification #: R-216 Oklahoma Certification #: D9947 Pennsylvania Certification #: 68-00547 Puerto Rico Certification #: FL01264 South Carolina Certification: #96042001 Tennessee Certification #: TN02974 Texas Certification: FL NELAC Reciprocity US Virgin Islands Certification: FL NELAC Reciprocity Virginia Environmental Certification #: 460165 West Virginia Certification #: 9962C Wisconsin Certification #: 399079670 Wyoming (EPA Region 8): FL NELAC Reciprocity

Florida Certification #: E84809



Pace Analytical Services, Inc. 5460 Beaumont Center Blvd - Suite 520 Tampa, FL 33634 (813)881-9401

SAMPLE SUMMARY

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35221170001	SLSW-1-0	Water	12/15/15 11:25	12/15/15 13:55
35221170002	SLSW-1-1	Water	12/15/15 11:30	12/15/15 13:55
35221170003	SLSW-1-2	Water	12/15/15 11:35	12/15/15 13:55
35221170004	SLSW-1-3	Water	12/15/15 11:38	12/15/15 13:55
35221170005	SLSW-2-0	Water	12/15/15 09:31	12/15/15 13:55
35221170006	SLSW-2-1	Water	12/15/15 09:34	12/15/15 13:55
35221170007	SLSW-2-3	Water	12/15/15 09:37	12/15/15 13:55
35221170008	SLSW-2-5	Water	12/15/15 09:39	12/15/15 13:55
35221170009	SLSW-3-0	Water	12/15/15 09:53	12/15/15 13:55
35221170010	SLSW-3-1	Water	12/15/15 09:56	12/15/15 13:55
35221170011	SLSW-3-3	Water	12/15/15 09:58	12/15/15 13:55
35221170012	SLSW-3-5	Water	12/15/15 10:00	12/15/15 13:55
35221170013	SLSW-4-0	Water	12/15/15 10:28	12/15/15 13:55
35221170014	SLSW-4-1	Water	12/15/15 10:30	12/15/15 13:55
35221170015	SLSW-4-5	Water	12/15/15 10:32	12/15/15 13:55
35221170016	SLSW-4-5-DUP	Water	12/15/15 10:32	12/15/15 13:55
35221170017	SLSW-4-9	Water	12/15/15 10:36	12/15/15 13:55



Project: Sawgrass Lake SW

Pace Project No.: 35221170

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laborator
35221170001	SLSW-1-0	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
5221170002	SLSW-1-1	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
5221170003	SLSW-1-2	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
5221170004	SLSW-1-3	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
5221170005	SLSW-2-0	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
5221170006	SLSW-2-1	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
5221170007	SLSW-2-3	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
5221170008	SLSW-2-5	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O



Project: Sawgrass Lake SW Pace Project No.: 35221170

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
35221170009	SLSW-3-0	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
35221170010	SLSW-3-1	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
35221170011	SLSW-3-3	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
5221170012	SLSW-3-5	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
35221170013	SLSW-4-0	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
35221170014	SLSW-4-1	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
35221170015	SLSW-4-5	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O



Project:Sawgrass Lake SWPace Project No.:35221170

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 365.4	AEM	1	PASI-O
35221170016	SLSW-4-5-DUP	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O
35221170017	SLSW-4-9	EPA 200.7	SAM	5	PASI-Tp
		TKN+NOx Calculation	JAS	1	PASI-O
		EPA 351.2	AEM	1	PASI-O
		EPA 353.2	BIP	1	PASI-O
		EPA 365.4	AEM	1	PASI-O



Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-1-0	Lab ID:	35221170001	Collected	: 12/15/1	5 11:25	Received: 12/	15/15 13:55 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa	Analytical	Method: EPA 2	00.7 Prepar	ation Metl	hod: EP	A 200.7			
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 19:58	7440-38-2	
Calcium	64200	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:02	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 19:58	7439-92-1	
Magnesium	7230	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:02	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	190000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:02		
Total Nitrogen Calculation	Analytical	Method: TKN+	NOx Calcula	tion					
Total Nitrogen	1.0	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA 3	51.2 Prepar	ation Met	hod: EP	A 351.2			
Nitrogen, Kjeldahl, Total	0.93	mg/L	0.50	0.086	1	12/21/15 10:40	12/22/15 12:56	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA 3	53.2						
Nitrogen, NO2 plus NO3	0.084	mg/L	0.050	0.025	1		12/21/15 10:23		
365.4 Phosphorus, Total	Analytical	Method: EPA 3	65.4 Prepar	ation Metl	hod: EP	A 365.4			
Phosphorus, Total (as P)	0.17	mg/L	0.10	0.050	1	12/21/15 10:40	12/22/15 12:56	7723-14-0	



Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-1-1	Lab ID:	35221170002	Collected	1: 12/15/1	5 11:30	Received: 12/	15/15 13:55 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa	Analytical	Method: EPA 2	00.7 Prepa	ration Meth	od: EP	A 200.7			
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:00	7440-38-2	
Calcium	66900	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:04	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:00	7439-92-1	
Magnesium	7240	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:04	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	197000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:04		
Total Nitrogen Calculation	Analytical	Method: TKN+I	NOx Calcula	ation					
Total Nitrogen	1.2	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA 3	51.2 Prepa	ration Meth	od: EP	A 351.2			
Nitrogen, Kjeldahl, Total	1.2	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:15	7727-37-9	J(D6), J(M1)
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA 3	53.2						
Nitrogen, NO2 plus NO3	0.072	mg/L	0.050	0.025	1		12/21/15 10:25		
365.4 Phosphorus, Total	Analytical	Method: EPA 3	65.4 Prepa	ration Meth	nod: EP	A 365.4			
Phosphorus, Total (as P)	0.15	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:15	7723-14-0	



Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-1-2	Lab ID:	35221170003	Collected	: 12/15/1	5 11:35	Received: 12/	15/15 13:55 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa	Analytical	Method: EPA 2	00.7 Prepar	ation Metl	hod: EP	A 200.7			
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:02	7440-38-2	
Calcium	66100	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:06	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:02	7439-92-1	
Magnesium	7240	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:06	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	195000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:06		
Total Nitrogen Calculation	Analytical	Method: TKN+	NOx Calcula	tion					
Total Nitrogen	1.4	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA 3	51.2 Prepar	ation Met	hod: EP	A 351.2			
Nitrogen, Kjeldahl, Total	1.3	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:19	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA 3	53.2						
Nitrogen, NO2 plus NO3	0.083	mg/L	0.050	0.025	1		12/21/15 10:26		
365.4 Phosphorus, Total	Analytical	Method: EPA 3	65.4 Prepar	ation Metl	hod: EP	A 365.4			
Phosphorus, Total (as P)	0.21	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:19	7723-14-0	



Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-1-3	Lab ID:	35221170004	Collecte	d: 12/15/1	5 11:38	Received: 12/	15/15 13:55 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa	Analytical	Method: EPA 2	00.7 Prepa	aration Meth	nod: EP	A 200.7			
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:04	7440-38-2	
Calcium	66300	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:08	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:04	7439-92-1	
Magnesium	7170	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:08	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	195000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:08		
Total Nitrogen Calculation	Analytical	Method: TKN+	NOx Calcul	ation					
Total Nitrogen	1.3	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA 3	51.2 Prepa	aration Meth	od: EP	A 351.2			
Nitrogen, Kjeldahl, Total	1.2	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:21	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA 3	53.2						
Nitrogen, NO2 plus NO3	0.084	mg/L	0.050	0.025	1		12/21/15 10:27		
365.4 Phosphorus, Total	Analytical	Method: EPA 3	65.4 Prepa	aration Meth	nod: EP	A 365.4			
Phosphorus, Total (as P)	0.20	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:21	7723-14-0	



Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-2-0	Lab ID:	35221170005	Collected	d: 12/15/18	5 09:31	Received: 12/	15/15 13:55 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa	Analytical	Method: EPA 2	00.7 Prepa	aration Meth	od: EP	A 200.7			
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:13	7440-38-2	
Calcium	59100	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:10	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:13	7439-92-1	
Magnesium	6190	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:10	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	173000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:10		
Total Nitrogen Calculation	Analytical	Method: TKN+	NOx Calcul	ation					
Total Nitrogen	0.91	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA 3	51.2 Prepa	aration Meth	od: EP	A 351.2			
Nitrogen, Kjeldahl, Total	0.90	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:22	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA 3	53.2						
Nitrogen, NO2 plus NO3	0.025 U	mg/L	0.050	0.025	1		12/21/15 10:29		
365.4 Phosphorus, Total	Analytical	Method: EPA 3	65.4 Prepa	aration Meth	od: EP	A 365.4			
Phosphorus, Total (as P)	0.050 U	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:22	7723-14-0	



Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-2-1	Lab ID:	35221170006	Collected	l: 12/15/18	5 09:34	Received: 12/	15/15 13:55 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa	Analytical	Method: EPA 2	00.7 Prepa	ration Meth	od: EP	A 200.7			
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:15	7440-38-2	
Calcium	59100	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:12	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:15	7439-92-1	
Magnesium	6270	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:12	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	173000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:12		
Total Nitrogen Calculation	Analytical	Method: TKN+	NOx Calcula	ation					
Total Nitrogen	0.87	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA 3	51.2 Prepa	ration Meth	od: EP	A 351.2			
Nitrogen, Kjeldahl, Total	0.87	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:23	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA 3	53.2						
Nitrogen, NO2 plus NO3	0.025 U	mg/L	0.050	0.025	1		12/21/15 10:36		
365.4 Phosphorus, Total	Analytical	Method: EPA 3	65.4 Prepa	ration Meth	od: EP	A 365.4			
Phosphorus, Total (as P)	0.054 I	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:23	7723-14-0	



Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-2-3	Lab ID:	35221170007	Collected	d: 12/15/18	5 09:37	Received: 12/	15/15 13:55 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa	Analytical	Method: EPA 2	00.7 Prepa	ration Meth	od: EP	A 200.7			
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:17	7440-38-2	
Calcium	59200	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:20	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:17	7439-92-1	
Magnesium	6050	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:20	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	173000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:20		
Total Nitrogen Calculation	Analytical	Method: TKN+	NOx Calcula	ation					
Total Nitrogen	0.92	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA 3	51.2 Prepa	ration Meth	od: EP	A 351.2			
Nitrogen, Kjeldahl, Total	0.92	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:25	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA 3	53.2						
Nitrogen, NO2 plus NO3	0.025 U	mg/L	0.050	0.025	1		12/21/15 10:37		
365.4 Phosphorus, Total	Analytical	Method: EPA 3	65.4 Prepa	ration Meth	od: EP	A 365.4			
Phosphorus, Total (as P)	0.050 U	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:25	7723-14-0	



Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-2-5	Lab ID:	35221170008	Collected	l: 12/15/1	5 09:39	Received: 12/	(15/15 13:55 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa	Analytical	Method: EPA 2	00.7 Prepa	ration Meth	od: EP	A 200.7			
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:19	7440-38-2	
Calcium	58400	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:22	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:19	7439-92-1	
Magnesium	6340	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:22	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	172000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:22		
Total Nitrogen Calculation	Analytical	Method: TKN+	NOx Calcula	ation					
Total Nitrogen	0.91	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA 3	51.2 Prepa	ration Meth	od: EP	A 351.2			
Nitrogen, Kjeldahl, Total	0.91	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:26	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA 3	53.2						
Nitrogen, NO2 plus NO3	0.025 U	mg/L	0.050	0.025	1		12/21/15 10:39		
365.4 Phosphorus, Total	Analytical	Method: EPA 3	65.4 Prepa	ration Meth	od: EP	A 365.4			
Phosphorus, Total (as P)	0.058 I	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:26	7723-14-0	



Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-3-0	Lab ID:	35221170009	Collected	: 12/15/15	5 09:53	Received: 12/	15/15 13:55 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa	Analytical	Method: EPA 2	00.7 Prepar	ation Meth	iod: EP/	A 200.7			
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:21	7440-38-2	
Calcium	58400	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:24	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:21	7439-92-1	
Magnesium	6060	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:24	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	171000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:24		
Total Nitrogen Calculation	Analytical	Method: TKN+	NOx Calcula	tion					
Total Nitrogen	0.87	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA 3	51.2 Prepar	ation Meth	od: EP/	A 351.2			
Nitrogen, Kjeldahl, Total	0.87	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:30	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA 3	53.2						
Nitrogen, NO2 plus NO3	0.025 U	mg/L	0.050	0.025	1		12/21/15 10:40		
365.4 Phosphorus, Total	Analytical	Method: EPA 3	65.4 Prepar	ation Meth	od: EP/	A 365.4			
Phosphorus, Total (as P)	0.050 I	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:30	7723-14-0	



Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-3-1	Lab ID:	35221170010	Collected	1: 12/15/15	5 09:56	Received: 12/	15/15 13:55 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa	Analytical	Method: EPA 2	00.7 Prepa	ration Meth	od: EP	A 200.7			
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:23	7440-38-2	
Calcium	58000	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:26	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:23	7439-92-1	
Magnesium	6100	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:26	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	170000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:26		
Total Nitrogen Calculation	Analytical	Method: TKN+	NOx Calcula	ation					
Total Nitrogen	0.89	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA 3	51.2 Prepa	ration Meth	od: EP	A 351.2			
Nitrogen, Kjeldahl, Total	0.89	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:32	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA 3	53.2						
Nitrogen, NO2 plus NO3	0.025 U	mg/L	0.050	0.025	1		12/21/15 10:44		
365.4 Phosphorus, Total	Analytical	Method: EPA 3	65.4 Prepa	ration Meth	od: EP	A 365.4			
Phosphorus, Total (as P)	0.053 I	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:32	7723-14-0	



Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-3-3	Lab ID:	35221170011	Collected	d: 12/15/18	5 09:58	Received: 12/	15/15 13:55 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa	Analytical	Method: EPA 2	00.7 Prepa	ration Meth	od: EP	A 200.7			
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:25	7440-38-2	
Calcium	58500	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:28	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:25	7439-92-1	
Magnesium	6020	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:28	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	171000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:28		
Total Nitrogen Calculation	Analytical	Method: TKN+	NOx Calcula	ation					
Total Nitrogen	0.95	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA 3	51.2 Prepa	ration Meth	od: EP	A 351.2			
Nitrogen, Kjeldahl, Total	0.95	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:33	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA 3	53.2						
Nitrogen, NO2 plus NO3	0.025 U	mg/L	0.050	0.025	1		12/21/15 10:50		
365.4 Phosphorus, Total	Analytical	Method: EPA 3	65.4 Prepa	ration Meth	od: EP	A 365.4			
Phosphorus, Total (as P)	0.050 U	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:33	7723-14-0	



Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-3-5	Lab ID:	35221170012	Collected	12/15/18	5 10:00	Received: 12/	15/15 13:55 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa	Analytical	Method: EPA 2	00.7 Prepa	ration Meth	od: EP	A 200.7			
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:27	7440-38-2	
Calcium	58800	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:30	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:27	7439-92-1	
Magnesium	6050	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:30	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	172000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:30		
Total Nitrogen Calculation	Analytical	Method: TKN+	NOx Calcula	ation					
Total Nitrogen	0.88	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA 3	51.2 Prepa	ration Meth	od: EP	A 351.2			
Nitrogen, Kjeldahl, Total	0.88	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:34	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA 3	53.2						
Nitrogen, NO2 plus NO3	0.025 U	mg/L	0.050	0.025	1		12/21/15 10:52		
365.4 Phosphorus, Total	Analytical	Method: EPA 3	65.4 Prepa	ration Meth	od: EP	A 365.4			
Phosphorus, Total (as P)	0.050 U	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:34	7723-14-0	



Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-4-0	Lab ID:	35221170013	Collected	1: 12/15/1	5 10:28	Received: 12/	15/15 13:55 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa	Analytical	Method: EPA 2	00.7 Prepa	ration Meth	nod: EP	A 200.7			
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:29	7440-38-2	
Calcium	58300	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:32	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:29	7439-92-1	
Magnesium	6050	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:32	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	170000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:32		
Total Nitrogen Calculation	Analytical	Method: TKN+	NOx Calcula	ation					
Total Nitrogen	0.91	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA 3	51.2 Prepa	ration Meth	od: EP	A 351.2			
Nitrogen, Kjeldahl, Total	0.91	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:36	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA 3	53.2						
Nitrogen, NO2 plus NO3	0.025 U	mg/L	0.050	0.025	1		12/21/15 10:53		
365.4 Phosphorus, Total	Analytical	Method: EPA 3	65.4 Prepa	ration Meth	od: EP	A 365.4			
Phosphorus, Total (as P)	0.053 I	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:36	7723-14-0	



Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-4-1	Lab ID:	35221170014	Collected	: 12/15/18	5 10:30	Received: 12/	15/15 13:55 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa	Analytical	Method: EPA 2	00.7 Prepai	ration Meth	od: EP	A 200.7			
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:31	7440-38-2	
Calcium	57900	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:34	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:31	7439-92-1	
Magnesium	6100	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:34	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	170000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:34		
Total Nitrogen Calculation	Analytical	Method: TKN+	NOx Calcula	ition					
Total Nitrogen	0.93	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA 3	51.2 Prepa	ration Meth	od: EP	A 351.2			
Nitrogen, Kjeldahl, Total	0.93	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:37	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA 3	53.2						
Nitrogen, NO2 plus NO3	0.025 U	mg/L	0.050	0.025	1		12/21/15 10:54		
365.4 Phosphorus, Total	Analytical	Method: EPA 3	65.4 Prepa	ration Meth	od: EP	A 365.4			
Phosphorus, Total (as P)	0.058 I	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:37	7723-14-0	


ANALYTICAL RESULTS

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-4-5	Lab ID:	35221170015	Collected	: 12/15/15	5 10:32	Received: 12/	15/15 13:55 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa	Analytical	Method: EPA 2	00.7 Prepar	ation Meth	od: EP	A 200.7			
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:40	7440-38-2	
Calcium	58300	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:36	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:40	7439-92-1	
Magnesium	6080	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:36	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	171000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:36		
Total Nitrogen Calculation	Analytical	Method: TKN+	NOx Calcula	tion					
Total Nitrogen	0.94	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA 3	51.2 Prepar	ation Meth	od: EP	A 351.2			
Nitrogen, Kjeldahl, Total	0.94	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:38	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA 3	53.2						
Nitrogen, NO2 plus NO3	0.025 U	mg/L	0.050	0.025	1		12/21/15 10:55		
365.4 Phosphorus, Total	Analytical	Method: EPA 3	65.4 Prepar	ation Meth	od: EP	A 365.4			
Phosphorus, Total (as P)	0.055 I	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:38	7723-14-0	



ANALYTICAL RESULTS

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-4-5-DUP	Lab ID:	35221170016	Collected	l: 12/15/18	5 10:32	Received: 12/	15/15 13:55 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa	Analytical	Method: EPA 2	00.7 Prepa	ration Meth	nod: EP	A 200.7			
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:42	7440-38-2	
Calcium	58300	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:38	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:42	7439-92-1	
Magnesium	6050	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:38	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	170000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:38		
Total Nitrogen Calculation	Analytical	Method: TKN+	NOx Calcula	ation					
Total Nitrogen	0.93	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA 3	51.2 Prepa	ration Meth	nod: EP	A 351.2			
Nitrogen, Kjeldahl, Total	0.93	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:40	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA 3	53.2						
Nitrogen, NO2 plus NO3	0.025 U	mg/L	0.050	0.025	1		12/21/15 10:57		
365.4 Phosphorus, Total	Analytical	Method: EPA 3	65.4 Prepa	ration Meth	od: EP	A 365.4			
Phosphorus, Total (as P)	0.051 I	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:40	7723-14-0	



ANALYTICAL RESULTS

Project: Sawgrass Lake SW

Pace Project No.: 35221170

Sample: SLSW-4-9	Lab ID:	35221170017	Collected	: 12/15/15	5 10:36	Received: 12/	15/15 13:55 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP Tampa	Analytical	Method: EPA 2	00.7 Prepar	ation Meth	od: EP	A 200.7			
Arsenic	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:44	7440-38-2	
Calcium	58400	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:46	7440-70-2	
Lead	5.0 U	ug/L	10.0	5.0	1	12/18/15 09:06	12/18/15 20:44	7439-92-1	
Magnesium	5890	ug/L	500	250	1	12/18/15 09:06	12/18/15 15:46	7439-95-4	
Tot Hardness asCaCO3 (SM 2340B	170000	ug/L	3300	1600	1	12/18/15 09:06	12/18/15 15:46		
Total Nitrogen Calculation	Analytical	Method: TKN+	NOx Calcula	tion					
Total Nitrogen	0.96	mg/L	0.50	0.086	1		12/23/15 10:05		
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA 3	51.2 Prepar	ation Meth	od: EP	A 351.2			
Nitrogen, Kjeldahl, Total	0.96	mg/L	0.50	0.086	1	12/22/15 07:50	12/22/15 14:41	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA 3	53.2						
Nitrogen, NO2 plus NO3	0.025 U	mg/L	0.050	0.025	1		12/21/15 10:58		
365.4 Phosphorus, Total	Analytical	Method: EPA 3	65.4 Prepar	ation Meth	od: EP	A 365.4			
Phosphorus, Total (as P)	0.073 I	mg/L	0.10	0.050	1	12/22/15 07:50	12/22/15 14:41	7723-14-0	



•	Sawgrass Lak 35221170	e SW												
QC Batch:	TAMP/8087			Analysi	is Method:	E	PA 200.7							
QC Batch Method:	EPA 200.7				is Descript		00.7 MET Ta	ampa						
Associated Lab Samp	35221	170008, 3	35221170002, 35221170009, 35221170016,	352211700 352211700)03, 35221)10, 35221	170004, 35	5221170005	, 35221						
METHOD BLANK:	1425743			N	latrix: Wa	ter								
Associated Lab Samp	35221	170008, 3	35221170002, 35221170009, 35221170016,	352211700 352211700)10, 35221)17	170011, 35								
Parame	otor		Units	Blank Result		eporting Limit	MDL		Apply	rod	0	alifiers		
	5101								Analyz			anners		
Arsenic Calcium			ug/L ug/L		.0 U 50 U	10.0 500			12/18/15 12/18/15					
Lead			ug/L		.0 U	10.0			12/18/15					
Magnesium			ug/L	-	50 U	500			12/18/15					
Tot Hardness asCaC	O3 (SM 2340E	3	ug/L	160	00 U	3300		1600	12/18/15	14:55				
LABORATORY CON	TROL SAMPL	E: 142	5744											
Danam			l laita	Spike	LCS		LCS		Rec	0	- 1:6:			
Parame	elei		Units	Conc.	Resu		% Rec		nits		alifiers	-		
Arsenic Calcium			ug/L	250 12500		228 12900	91 103		85-115 85-115					
Lead			ug/L ug/L	250		255	103		85-115					
Magnesium			ug/L	12500		12900	102		85-115					
Tot Hardness asCaCo	O3 (SM 2340E	3	ug/L	82700		85200	103		85-115					
MATRIX SPIKE & MA	TRIX SPIKE	DUPLICA	TE: 142574	-		1425746								
		-		MS	MSD						04 D			
Parameter		3 Units	5221170001 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Re	MS c % F		% Rec Limits	RPD	Max RPD	Qual
Arsenic		ug/L	5.0 U	250	250	231	227		92	91	70-130			
Calcium		ug/L	64200	12500	12500	77900	75900		10	94	70-130			
Lead		ug/L	5.0 U	250	250	239	248		96	99	70-130	-		
Magnesium		ug/L	7230	12500	12500	19200	19000		96	94	70-130	1	20	
Tot Hardness asCaC0 2340B	D3 (SM	ug/L	190000	82700	82700	274000	268000	1	01	94	70-130	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



Project:	Sawgrass Lake S	W						
Pace Project No.:	35221170							
QC Batch:	WETA/53212		Analysis M	ethod:	EPA 351.2			
QC Batch Method:	EPA 351.2		Analysis De	escription:	351.2 TKN			
Associated Lab Sar	mples: 35221170	0001						
METHOD BLANK:	1428032		Matrix	x: Water				
Associated Lab Sar	mples: 35221170	0001						
			Blank	Reporting				
Para	meter	Units	Result	Limit	MDL	Analyze	d Qualifi	ers
Nitrogen, Kjeldahl,	Total	mg/L	0.086 L	0.9	50 0.08	12/22/15 12	2:21	
LABORATORY CO	NTROL SAMPLE:	1428033						
			Spike	LCS	LCS	% Rec		
Parar	meter	Units	Conc.	Result	% Rec	Limits	Qualifiers	
Nitrogen, Kjeldahl,	Total	mg/L	20	18.0	90	90-110		
MATRIX SPIKE SA	MPLE:	1428035						
			3522101701	9 Spike	MS	MS	% Rec	
Parar	meter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Nitrogen, Kjeldahl,	Total	mg/L		3.0 20	19.8	84	90-110	J(M1)
SAMPLE DUPLICA	TE: 1428034							
			35221017019	Dup		Max		
Para	meter	Units	Result	Result	RPD	RPD	Qualifiers	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:	Sawgra	ass Lake SV	V							
Pace Project No.:	352211	170								
QC Batch:	WET	A/53222		Analysis N	lethod:	El	PA 351.2			
QC Batch Method:	EPA :	351.2		Analysis D	escription	35	51.2 TKN			
Associated Lab San	nples:	352211700	002, 35221170003 009, 35221170010 016, 35221170017	, 35221170011,						
METHOD BLANK:	142846	62		Matr	x: Water					
Associated Lab San	nples:	352211700	002, 35221170003 009, 35221170010 016, 35221170017	, 35221170011,						
				Blank	Repo	rting				
Paran	neter		Units	Result	Lin	nit	MDL	Analyze	ed Qualifie	rs
Nitrogen, Kjeldahl, 1	Fotal		mg/L	0.086		0.50	0.086	12/22/15 1	4:10	
LABORATORY CON	NTROL	SAMPLE:	1428463	0.1	1.00			0/ D		
Paran	notor		Units	Spike Conc.	LCS Result			% Rec Limits	Qualifiers	
									Qualifiers	
Nitrogen, Kjeldahl, 1	lotal		mg/L	20	18	8.4	92	90-110		
MATRIX SPIKE SAI	MPLE:		1428465							
				352211700	02 Sp	ike	MS	MS	% Rec	
Paran	neter		Units	Result	Co	nc.	Result	% Rec	Limits	Qualifiers
Nitrogen, Kjeldahl, 1	Fotal		mg/L		1.2	20	17.2	80	90-110	J(M1)
SAMPLE DUPLICA	TE: 14	28464		05004476000	_					
Paran	notor		Units	35221170002 Result	2 Du Res	•	RPD	Max RPD	Qualifiers	
										_
Nitrogen, Kjeldahl, 7	Total		mg/L	1.	2	0.95	22		20 J(D6)	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Saw	grass Lake SW						
Pace Project No.: 3522	1170						
QC Batch: WE	TA/53202	Analysis Metho	od: E	PA 353.2			
QC Batch Method: EP	A 353.2	Analysis Descr	iption: 3	53.2 Nitrate + N	litrite, preserved		
Associated Lab Samples:	35221170001, 3522117000 35221170008, 3522117000		21170004, 3	5221170005, 35	5221170006, 3522 ⁻	1170007,	
METHOD BLANK: 1427	880	Matrix: W	/ater				
Associated Lab Samples:	35221170001, 3522117000 35221170008, 3522117000)9		5221170005, 35	5221170006, 3522 ⁻	1170007,	
Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifier	S
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.050	0.02	12/21/15 09:57	7	
_ABORATORY CONTRO	L SAMPLE: 1427881						
Parameter	Units		CS sult	LCS % Rec	% Rec Limits Qu	ualifiers	
Nitrogen, NO2 plus NO3	mg/L	2	2.1	103	90-110		
MATRIX SPIKE SAMPLE	1427883						
Parameter	Units	35221121002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025 U	2	2.0	100	80-120	
MATRIX SPIKE SAMPLE	: 1427885						
Parameter	Units	35221167001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	4.8	4	9.1	106	80-120	
SAMPLE DUPLICATE:	1427882						
Parameter	Units	35221121002 Result	Dup Result	RPD	Max RPD	Qualifiers	
Nitrogen, NO2 plus NO3	mg/L	0.025 U	0.025 L	J	20		-
SAMPLE DUPLICATE:	1427884	0500//0500/					
Parameter	Units	35221167001 Result	Dup Result	RPD	Max RPD	Qualifiers	
Nitrogen, NO2 plus NO3	mg/L	4.8	4.9)	0 20		-

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



Project: Sa	awgrass Lake S	W						
Pace Project No.: 35	5221170							
QC Batch:	WETA/53203		Analysis Meth	od: E	PA 353.2			
QC Batch Method:	EPA 353.2		Analysis Desc	ription: 3	53.2 Nitrate + N	litrite, preserved		
Associated Lab Sample	es: 35221170 35221170		, 35221170012, 352	221170013, 3	5221170014, 35	221170015, 35221	1170016,	
METHOD BLANK: 14			Matrix: \					
Associated Lab Sample	es: 35221170 35221170		, 35221170012, 352	221170013, 3	5221170014, 35	221170015, 35221	170016,	
Paramet	er	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifier	S
Nitrogen, NO2 plus NC		mg/L	0.025 U	0.050				
LABORATORY CONTI		1427887						
				.CS	LCS	% Rec		
Paramet	er	Units	Conc Re	esult	% Rec	Limits Qu	ualifiers	
Nitrogen, NO2 plus NC)3	mg/L	2	2.1	104	90-110		
MATRIX SPIKE SAMP	LE:	1427889						
Paramet	er	Units	35221170010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NC)3	mg/L	0.025 L	2	2.1	103	80-120	
MATRIX SPIKE SAMP	LE:	1427891						
			35221198003	Spike	MS	MS	% Rec	
Paramet	-	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Nitrogen, NO2 plus NC)3	mg/L	28.1	1 20	47.3	96	80-120	
SAMPLE DUPLICATE:	1427888							
Paramet	er	Units	35221170010 Result	Dup Result	RPD	Max RPD	Qualifiers	
Nitrogen, NO2 plus NC)3	mg/L	0.025 U	0.025 L	J	20		-
SAMPLE DUPLICATE:	1427890							
Paramet	er	Units	35221198003 Result	Dup Result	RPD	Max RPD	Qualifiers	
Nitrogen, NO2 plus NC		mg/L		28.0)	0 20		-
		0						

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:	Sawgrass Lake S	W						
Pace Project No.:	35221170							
QC Batch:	WETA/53213		Analysis Me	ethod:	EPA 365.4			
QC Batch Method:	EPA 365.4		Analysis De	escription:	365.4 Phosphoru	s		
Associated Lab Sar	nples: 35221170	001						
METHOD BLANK:	1428036		Matrix	:: Water				
Associated Lab Sar	mples: 35221170	001						
			Blank	Reporting				
Parar	neter	Units	Result	Limit	MDL	Analyzed	Qualifiers	
Phosphorus, Total (as P)	mg/L	0.050 U	0.1	0 0.050) 12/22/15 12:5	58	
LABORATORY CO	NTROL SAMPLE:	1428037						
Parar	notor	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits C	Qualifiers	
Phosphorus, Total (as P)	mg/L	4	3.8	95	90-110		
MATRIX SPIKE SA	MPLE:	1428039						
			3522101701	9 Spike	MS	MS	% Rec	
Parar	neter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	0	.70 4	4.3	89	80-120	
SAMPLE DUPLICA	TE: 1428038							
			35221017019	Dup		Max		
-	notor	Units	Result	Result	RPD	RPD	Qualifiers	
Parar	neter	Onits	recount					

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Sawg	grass Lake SW							
Pace Project No.: 3522	1170							
QC Batch: WE	TA/53223		Analysis Me	ethod:	EPA 365.4			
QC Batch Method: EP/	A 365.4		Analysis De	scription:	365.4 Phosphoru	S		
Associated Lab Samples:		35221170010,				221170007, 35221 221170014, 35221		
METHOD BLANK: 1428	469		Matrix	: Water				
Associated Lab Samples:		35221170010,				221170007, 35221 221170014, 35221		
			Blank	Reporting				
Parameter		Units	Result	Limit	MDL	Analyzed	Qualifiers	
Phosphorus, Total (as P)		mg/L	0.050 U	0.	0.050) 12/22/15 14:51		
LABORATORY CONTRO	L SAMPLE: 142	28473	Crite	LCS		0/ D		
Parameter		Units	Spike Conc.	Result	LCS % Rec	% Rec Limits Qu	ualifiers	
Phosphorus, Total (as P)		mg/L	4	3.8	96	90-110		
MATRIX SPIKE SAMPLE:	142	28475						
Parameter		Units	35221170002 Result	2 Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)		mg/L	0	.15 4	3.6	86	80-120	
SAMPLE DUPLICATE:	1428474							
Parameter		Units	35221170002 Result	Dup Result	RPD	Max RPD	Qualifiers	
Phosphorus, Total (as P)		mg/L	0.15					

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: Sawgrass Lake SW

Pace Project No.: 35221170

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

PASI-Tp Pace Analytical Services - Tampa

ANALYTE QUALIFIERS

- I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
- U Compound was analyzed for but not detected.
- J(D6) Estimated Value. The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
- J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	Sawgrass Lake SW
Pace Project No.:	35221170

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35221170001	SLSW-1-0	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170002	SLSW-1-1	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170003	SLSW-1-2	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170004	SLSW-1-3	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170005	SLSW-2-0	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170006	SLSW-2-1	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170007	SLSW-2-3	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170008	SLSW-2-5	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170009	SLSW-3-0	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170010	SLSW-3-1	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170011	SLSW-3-3	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170012	SLSW-3-5	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170013	SLSW-4-0	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170014	SLSW-4-1	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170015	SLSW-4-5	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170016	SLSW-4-5-DUP	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170017	SLSW-4-9	EPA 200.7	TAMP/8087	EPA 200.7	TAMP/8089
35221170001	SLSW-1-0	TKN+NOx Calculation	WET/34858		
35221170002	SLSW-1-1	TKN+NOx Calculation	WET/34858		
35221170003	SLSW-1-2	TKN+NOx Calculation	WET/34858		
35221170004	SLSW-1-3	TKN+NOx Calculation	WET/34858		
35221170005	SLSW-2-0	TKN+NOx Calculation	WET/34858		
35221170006	SLSW-2-1	TKN+NOx Calculation	WET/34858		
35221170007	SLSW-2-3	TKN+NOx Calculation	WET/34858		
35221170008	SLSW-2-5	TKN+NOx Calculation	WET/34858		
35221170009	SLSW-3-0	TKN+NOx Calculation	WET/34858		
35221170010	SLSW-3-1	TKN+NOx Calculation	WET/34858		
35221170011	SLSW-3-3	TKN+NOx Calculation	WET/34858		
35221170012	SLSW-3-5	TKN+NOx Calculation	WET/34858		
35221170013	SLSW-4-0	TKN+NOx Calculation	WET/34858		
35221170014	SLSW-4-1	TKN+NOx Calculation	WET/34858		
35221170015	SLSW-4-5	TKN+NOx Calculation	WET/34858		
35221170016	SLSW-4-5-DUP	TKN+NOx Calculation	WET/34858		
35221170017	SLSW-4-9	TKN+NOx Calculation	WET/34858		
35221170001	SLSW-1-0	EPA 351.2	WETA/53212	EPA 351.2	WETA/5323
35221170002	SLSW-1-1	EPA 351.2	WETA/53222	EPA 351.2	WETA/5324
35221170003	SLSW-1-2	EPA 351.2	WETA/53222	EPA 351.2	WETA/5324
35221170004	SLSW-1-3	EPA 351.2	WETA/53222	EPA 351.2	WETA/5324
35221170005	SLSW-2-0	EPA 351.2	WETA/53222	EPA 351.2	WETA/5324
35221170006	SLSW-2-1	EPA 351.2	WETA/53222	EPA 351.2	WETA/5324
35221170007	SLSW-2-3	EPA 351.2	WETA/53222	EPA 351.2	WETA/5324
35221170008	SLSW-2-5	EPA 351.2	WETA/53222		WETA/5324
35221170009	SLSW-3-0	EPA 351.2	WETA/53222		WETA/5324
35221170010	SLSW-3-1	EPA 351.2	WETA/53222		WETA/5324
35221170011	SLSW-3-3	EPA 351.2	WETA/53222		WETA/5324
35221170012	SLSW-3-5	EPA 351.2	WETA/53222		WETA/5324



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	Sawgrass Lake SW
Pace Project No .:	35221170

35221170014 SLSW-4-1 EPA 351.2 WETA/53222 EPA 351.2 WETA/53248 35221170017 SLSW-4-9 EPA 351.2 WETA/53222 EPA 351.2 WETA/53202 35221170001 SLSW-10 EPA 353.2 WETA/53202 SS23170004 SLSW-11 EPA 353.2 WETA/53202 35221170005 SLSW-12 EPA 353.2 WETA/53202 SS23170005 SLSW-20 EPA 353.2 WETA/53202 35221170005 SLSW-21 EPA 353.2 WETA/53202 SS23170006 SLSW-23 EPA 353.2 WETA/53202 35221170006 SLSW-30 EPA 353.2 WETA/53202 SS23170019 SLSW-30 EPA 353.2 WETA/53203 35221170010 SLSW-31 EPA 353.2 WETA/53203 SS221170013 SLSW-45 EPA 353.2 WETA/53203 35221170011 SLSW-45 EPA 353.2 WETA/53203 SS221170013 SLSW-4	Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35221170016 SLSW-4-9 EPA 351.2 WETA/S3222 EPA 351.2 WETA/S3224 WETA/S3224 35221170001 SLSW-10 EPA 353.2 WETA/S3202 EPA 351.2 WETA/S3202 35221170002 SLSW-11 EPA 353.2 WETA/S3202 SEX SEX 35221170003 SLSW-12 EPA 353.2 WETA/S3202 SEX SEX 35221170004 SLSW-30 EPA 353.2 WETA/S3202 SEX SEX 35221170005 SLSW-30 EPA 353.2 WETA/S3202 SEX SEX 35221170006 SLSW-30 EPA 353.2 WETA/S3202 SEX SEX 35221170010 SLSW-30 EPA 353.2 WETA/S3202 SEX SEX 35221170010 SLSW-31 EPA 353.2 WETA/S3203 SEX SEX SEX 35221170011 SLSW-31 EPA 353.2 WETA/S3203 SEX SEX SEX 35221170011 SLSW-31 EPA 353.2 WETA/S3203 SEX SEX SEX 35221170014 SLSW-4	35221170014	SLSW-4-1	EPA 351.2	WETA/53222	EPA 351.2	WETA/53248
35221170017 SLSW-4-9 EPA 351.2 WETA/53222 EPA 351.2 WETA/53228 35221170001 SLSW-1-0 EPA 353.2 WETA/53202 SUSW-10 SUSW-12 EPA 353.2 WETA/53202 35221170004 SLSW-12 EPA 353.2 WETA/53202 SUSW-13 EPA 353.2 WETA/53202 35221170005 SLSW-20 EPA 353.2 WETA/53202 SUSW-20 SUSW-20 35221170006 SLSW-2.3 EPA 353.2 WETA/53202 SUSW-20 SUSW-20 35221170007 SLSW-2.3 EPA 353.2 WETA/53202 SUSW-20 SUSW-20 35221170018 SLSW-3.4 EPA 353.2 WETA/53202 SUSW-20 SUSW-20 35221170019 SLSW-3.5 EPA 353.2 WETA/53203 SUSW-20 SUSW-20 35221170011 SLSW-4.5 EPA 353.2 WETA/53203 SUSW-20 SUSW-20 35221170014 SLSW-4.5 EPA 353.2 WETA/53203 SUSW-20 SUSW-20 35221170016 SLSW-4.5 EPA 365.4 WETA/53203 SUSW-20 SUSW-20 <td>35221170015</td> <td>SLSW-4-5</td> <td>EPA 351.2</td> <td>WETA/53222</td> <td>EPA 351.2</td> <td>WETA/53248</td>	35221170015	SLSW-4-5	EPA 351.2	WETA/53222	EPA 351.2	WETA/53248
35221170001 SLSW-1-0 EPA 353.2 WETA/53202 35221170002 SLSW-1-1 EPA 353.2 WETA/53202 35221170003 SLSW-1-2 EPA 353.2 WETA/53202 35221170005 SLSW-2-0 EPA 353.2 WETA/53202 35221170006 SLSW-2-0 EPA 353.2 WETA/53202 35221170006 SLSW-2-1 EPA 353.2 WETA/53202 35221170007 SLSW-2-3 EPA 353.2 WETA/53202 35221170018 SLSW-3-6 EPA 353.2 WETA/53202 35221170019 SLSW-3-1 EPA 353.2 WETA/53203 35221170019 SLSW-3-3 EPA 353.2 WETA/53203 35221170011 SLSW-3-5 EPA 353.2 WETA/53203 35221170013 SLSW-4-0 EPA 353.2 WETA/53203 35221170014 SLSW-4-5 EPA 353.2 WETA/53203 35221170015 SLSW-4-5 EPA 365.4 WETA/53203 35221170016 SLSW-11 EPA 365.4 WETA/53203 35221170017 SLSW-14 EPA 365.4 WETA/53223 35221170016 SLSW-14 EPA 365.4 WETA/5	35221170016	SLSW-4-5-DUP	EPA 351.2	WETA/53222	EPA 351.2	WETA/53248
35221170002 SLSW-1-1 EPA 353.2 WETA/53202 35221170003 SLSW-1-2 EPA 353.2 WETA/53202 35221170005 SLSW-2-0 EPA 353.2 WETA/53202 35221170006 SLSW-2-1 EPA 353.2 WETA/53202 35221170007 SLSW-2-3 EPA 353.2 WETA/53202 35221170008 SLSW-2-3 EPA 353.2 WETA/53202 35221170008 SLSW-3-0 EPA 353.2 WETA/53202 35221170010 SLSW-3-0 EPA 353.2 WETA/53202 35221170010 SLSW-3-1 EPA 353.2 WETA/53203 35221170011 SLSW-3-5 EPA 353.2 WETA/53203 35221170012 SLSW-4-0 EPA 353.2 WETA/53203 35221170014 SLSW-4-5 EPA 353.2 WETA/53203 35221170015 SLSW-4-5 EPA 353.2 WETA/53203 35221170016 SLSW-4-5 EPA 355.4 WET	35221170017	SLSW-4-9	EPA 351.2	WETA/53222	EPA 351.2	WETA/53248
35221170003 SLSW-1-2 EPA 353.2 WETA/53202 35221170006 SLSW-2-0 EPA 353.2 WETA/53202 35221170006 SLSW-2-1 EPA 353.2 WETA/53202 35221170006 SLSW-2-3 EPA 353.2 WETA/53202 35221170007 SLSW-2-3 EPA 353.2 WETA/53202 35221170008 SLSW-2-5 EPA 353.2 WETA/53202 35221170010 SLSW-3-1 EPA 353.2 WETA/53203 35221170010 SLSW-3-1 EPA 353.2 WETA/53203 35221170010 SLSW-3-5 EPA 353.2 WETA/53203 35221170013 SLSW-4-0 EPA 353.2 WETA/53203 35221170014 SLSW-4-1 EPA 353.2 WETA/53203 35221170015 SLSW-4-5 EPA 353.2 WETA/53203 35221170017 SLSW-4-5 EPA 353.2 WETA/53203 35221170017 SLSW-4-5 EPA 365.4 WETA/53249 35221170016 SLSW-1-1 EPA 365.4 WETA/53223 35221170017 SLSW-1-2 EPA 365.4 WETA/53223 35221170017 SLSW-1-2 EPA 365.4 WET	35221170001	SLSW-1-0	EPA 353.2	WETA/53202		
35221170004 SLSW-1-3 EPA 353.2 WETA/53202 35221170005 SLSW-2-0 EPA 353.2 WETA/53202 35221170007 SLSW-2-3 EPA 353.2 WETA/53202 35221170008 SLSW-2-3 EPA 353.2 WETA/53202 35221170008 SLSW-3-6 EPA 353.2 WETA/53202 35221170010 SLSW-3-1 EPA 353.2 WETA/53203 35221170012 SLSW-3-3 EPA 353.2 WETA/53203 35221170012 SLSW-3-4 EPA 353.2 WETA/53203 35221170013 SLSW-4-0 EPA 353.2 WETA/53203 35221170014 SLSW-4-5 EPA 353.2 WETA/53203 35221170015 SLSW-4-5 EPA 353.2 WETA/53203 35221170014 SLSW-4-5 EPA 353.2 WETA/53203 35221170015 SLSW-4-5 EPA 365.4 WETA/53203 35221170016 SLSW-4-5 EPA 365.4 WETA/53203 35221170015 SLSW-4-5 EPA 365.4 WETA/53223 35221170016 SLSW-4-1 EPA 365.4 WETA/53223 35221170005 SLSW-1-1 EPA 365.4 WET	35221170002	SLSW-1-1	EPA 353.2	WETA/53202		
35221170005 SLSW-2-0 EPA 353.2 WETA/53202 35221170006 SLSW-2-1 EPA 353.2 WETA/53202 35221170008 SLSW-2-5 EPA 353.2 WETA/53202 35221170010 SLSW-3-0 EPA 353.2 WETA/53202 35221170010 SLSW-3-1 EPA 353.2 WETA/53203 35221170010 SLSW-3-3 EPA 353.2 WETA/53203 35221170011 SLSW-3-3 EPA 353.2 WETA/53203 35221170013 SLSW-4-0 EPA 353.2 WETA/53203 35221170013 SLSW-4-1 EPA 353.2 WETA/53203 35221170014 SLSW-4-5 EPA 353.2 WETA/53203 35221170015 SLSW-4-5 EPA 353.2 WETA/53203 35221170016 SLSW-4-1 EPA 365.4 WETA/5323 35221170016 SLSW-4-1 EPA 365.4 WETA/5323 35221170002 SLSW-1-1 EPA 365.4 WETA/	35221170003	SLSW-1-2	EPA 353.2	WETA/53202		
35221170006 SLSW-2-1 EPA 353.2 WETA/53202 35221170007 SLSW-2-3 EPA 353.2 WETA/53202 35221170009 SLSW-3-0 EPA 353.2 WETA/53202 35221170010 SLSW-3-1 EPA 353.2 WETA/53203 35221170011 SLSW-3-3 EPA 353.2 WETA/53203 35221170012 SLSW-3-5 EPA 353.2 WETA/53203 35221170013 SLSW-4-0 EPA 353.2 WETA/53203 35221170014 SLSW-4-5 EPA 353.2 WETA/53203 35221170014 SLSW-4-5 EPA 353.2 WETA/53203 35221170016 SLSW-4-5 EPA 353.2 WETA/53203 35221170017 SLSW-4-9 EPA 353.2 WETA/53203 35221170016 SLSW-4-9 EPA 353.2 WETA/53203 35221170017 SLSW-4-9 EPA 365.4 WETA/53203 35221170017 SLSW-4-9 EPA 365.4 WETA/53223 35221170002 SLSW-1-1 EPA 365.4 WETA/53224 35221170003 SLSW-2-2 EPA 365.4 WETA/5	35221170004	SLSW-1-3	EPA 353.2	WETA/53202		
35221170007 SLSW-2-3 EPA 353.2 WETA/53202 35221170008 SLSW-2-5 EPA 353.2 WETA/53202 35221170010 SLSW-3-0 EPA 353.2 WETA/53203 35221170011 SLSW-3-1 EPA 353.2 WETA/53203 35221170012 SLSW-3-5 EPA 353.2 WETA/53203 35221170013 SLSW-4-0 EPA 353.2 WETA/53203 35221170014 SLSW-4-5 EPA 353.2 WETA/53203 35221170015 SLSW-4-5 EPA 353.2 WETA/53203 35221170016 SLSW-4-5 EPA 353.2 WETA/53203 35221170017 SLSW-4-5 EPA 353.2 WETA/53203 35221170016 SLSW-4-5 EPA 353.2 WETA/53203 35221170017 SLSW-1-0 EPA 365.4 WETA/53203 35221170017 SLSW-1-1 EPA 365.4 WETA/53223 35221170018 SLSW-1-2 EPA 365.4 WETA/53223 35221170019 SLSW-1-1 EPA 365.4 WETA/53223 35221170002 SLSW-1-1 EPA 365.4 WETA/53223 35221170003 SLSW-2-2 EPA 365.4 WET	35221170005	SLSW-2-0	EPA 353.2	WETA/53202		
35221170008 SLSW-2-5 EPA 353.2 WETA/53202 35221170009 SLSW-3-0 EPA 353.2 WETA/53203 35221170010 SLSW-3-1 EPA 353.2 WETA/53203 35221170011 SLSW-3-3 EPA 353.2 WETA/53203 35221170012 SLSW-3-5 EPA 353.2 WETA/53203 35221170013 SLSW-4-0 EPA 353.2 WETA/53203 35221170014 SLSW-4-5 EPA 353.2 WETA/53203 35221170015 SLSW-4-5 EPA 353.2 WETA/53203 35221170016 SLSW-4-5 EPA 353.2 WETA/53203 35221170017 SLSW-4-5 EPA 353.2 WETA/53203 35221170016 SLSW-4-9 EPA 353.2 WETA/53203 35221170017 SLSW-10 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 3522117002 SLSW-1-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170004 SLSW-2-0 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170005 SLSW-2-5 <td< td=""><td>35221170006</td><td>SLSW-2-1</td><td>EPA 353.2</td><td>WETA/53202</td><td></td><td></td></td<>	35221170006	SLSW-2-1	EPA 353.2	WETA/53202		
35221170009 SLSW-3-0 EPA 353.2 WETA/53202 35221170010 SLSW-3-1 EPA 353.2 WETA/53203 35221170011 SLSW-3-3 EPA 353.2 WETA/53203 35221170012 SLSW-3-5 EPA 353.2 WETA/53203 35221170013 SLSW-4-0 EPA 353.2 WETA/53203 35221170014 SLSW-4-0 EPA 353.2 WETA/53203 35221170015 SLSW-4-5-DUP EPA 353.2 WETA/53203 35221170016 SLSW-4-5-DUP EPA 353.2 WETA/53203 35221170017 SLSW-1-0 EPA 355.4 WETA/53203 35221170018 SLSW-1-0 EPA 365.4 WETA/53223 35221170017 SLSW-1-1 EPA 365.4 WETA/53223 3522117002 SLSW-1-1 EPA 365.4 WETA/53223 3522117003 SLSW-2-0 EPA 365.4 WETA/53223 3522117004 SLSW-2-1 EPA 365.4 WETA/53223 3522117005 SLSW-2-3 EPA 365.4 WETA/53249 3522117006 SLSW-2-1 EPA 365.4 WET	35221170007	SLSW-2-3	EPA 353.2	WETA/53202		
35221170010 SLSW-3-1 EPA 353.2 WETA/53203 35221170011 SLSW-3-3 EPA 353.2 WETA/53203 35221170012 SLSW-3-5 EPA 353.2 WETA/53203 35221170013 SLSW-4-0 EPA 353.2 WETA/53203 35221170014 SLSW-4-1 EPA 353.2 WETA/53203 35221170016 SLSW-4-5 EPA 353.2 WETA/53203 35221170016 SLSW-4-9 EPA 353.2 WETA/53203 35221170017 SLSW-4-9 EPA 365.4 WETA/53203 35221170016 SLSW-1-0 EPA 365.4 WETA/53203 35221170002 SLSW-1-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170003 SLSW-1-2 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170004 SLSW-2-0 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170005 SLSW-2-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170006 SLSW-2-5 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170007 SLSW-3-3 EPA 365.4	35221170008	SLSW-2-5	EPA 353.2	WETA/53202		
35221170011 SLSW-3-3 EPA 353.2 WETA/53203 35221170012 SLSW-3-5 EPA 353.2 WETA/53203 35221170013 SLSW-4-0 EPA 353.2 WETA/53203 35221170014 SLSW-4-1 EPA 353.2 WETA/53203 35221170015 SLSW-4-5 EPA 353.2 WETA/53203 35221170016 SLSW-4-5 EPA 353.2 WETA/53203 35221170017 SLSW-4-9 EPA 353.2 WETA/53203 35221170016 SLSW-1-0 EPA 365.4 WETA/53223 EPA 365.4 WETA/53239 35221170002 SLSW-1-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170004 SLSW-1-2 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170004 SLSW-1-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170004 SLSW-2-0 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170005 SLSW-2-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170006 SLSW-2-5 EPA 365.4 WETA/53223 EPA 365.4 WETA/5324	35221170009	SLSW-3-0	EPA 353.2	WETA/53202		
35221170012 SLSW-3-5 EPA 353.2 WETA/53203 35221170013 SLSW-4-0 EPA 353.2 WETA/53203 35221170014 SLSW-4-1 EPA 353.2 WETA/53203 35221170015 SLSW-4-5 EPA 353.2 WETA/53203 35221170016 SLSW-4-5-DUP EPA 353.2 WETA/53203 35221170017 SLSW-4-9 EPA 365.4 WETA/53213 EPA 365.4 WETA/53239 35221170012 SLSW-1-0 EPA 365.4 WETA/53223 EPA 365.4 WETA/53239 3522117002 SLSW-1-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53239 3522117003 SLSW-1-2 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 3522117004 SLSW-20 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 3522117005 SLSW-2-0 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 3522117006 SLSW-2-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170016 SLSW-3-5 EPA 365.4 WETA/53223	35221170010	SLSW-3-1	EPA 353.2	WETA/53203		
35221170013 SLSW-4-0 EPA 353.2 WETA/53203 35221170014 SLSW-4-1 EPA 353.2 WETA/53203 35221170015 SLSW-4-5-DUP EPA 353.2 WETA/53203 35221170016 SLSW-4-5-DUP EPA 353.2 WETA/53203 35221170017 SLSW-4-9 EPA 353.2 WETA/53203 35221170017 SLSW-1-0 EPA 365.4 WETA/53223 EPA 365.4 WETA/53239 3522117002 SLSW-1-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 3522117003 SLSW-1-2 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 3522117004 SLSW-1-3 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 3522117005 SLSW-2-0 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 3522117006 SLSW-2-3 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170007 SLSW-3-0 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170008 SLSW-3-5 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170010 SLSW	35221170011	SLSW-3-3	EPA 353.2	WETA/53203		
35221170014 SLSW-4-1 EPA 353.2 WETA/53203 35221170015 SLSW-4-5 EPA 353.2 WETA/53203 35221170016 SLSW-4-5-DUP EPA 353.2 WETA/53203 35221170017 SLSW-4-9 EPA 353.2 WETA/53203 35221170017 SLSW-1-9 EPA 365.4 WETA/53213 EPA 365.4 WETA/53223 35221170012 SLSW-1-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53223 35221170002 SLSW-1-2 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170003 SLSW-20 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170005 SLSW-20 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170006 SLSW-2-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170007 SLSW-2-3 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170008 SLSW-2-3 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170010 SLSW	35221170012	SLSW-3-5	EPA 353.2	WETA/53203		
35221170015 SLSW-4-5 EPA 353.2 WETA/53203 35221170016 SLSW-4-9 EPA 353.2 WETA/53203 35221170017 SLSW-4-9 EPA 353.2 WETA/53203 35221170017 SLSW-1-0 EPA 365.4 WETA/53213 EPA 365.4 WETA/53239 35221170002 SLSW-1-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53239 35221170003 SLSW-1-2 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170004 SLSW-1-3 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170005 SLSW-2-0 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170006 SLSW-2-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170007 SLSW-2-5 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170008 SLSW-3-0 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170010 SLSW-3-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170010 SLSW-3-5 EPA 365.4 WETA/53223 EP	35221170013	SLSW-4-0	EPA 353.2	WETA/53203		
35221170016 SLSW-4-5-DUP EPA 353.2 WETA/53203 35221170017 SLSW-4-9 EPA 353.2 WETA/53203 35221170001 SLSW-1-0 EPA 365.4 WETA/53213 EPA 365.4 WETA/53239 35221170002 SLSW-1-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 3522117003 SLSW-1-2 EPA 365.4 WETA/53223 EPA 365.4 WETA/53233 3522117004 SLSW-1-3 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 3522117005 SLSW-2-0 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 3522117006 SLSW-2-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 3522117007 SLSW-2-3 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170008 SLSW-2-5 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170010 SLSW-3-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170010 SLSW-3-5 EPA 365.4 WETA/53223	35221170014	SLSW-4-1	EPA 353.2	WETA/53203		
35221170017 SLSW-4-9 EPA 353.2 WETA/53203 35221170001 SLSW-1-0 EPA 365.4 WETA/53213 EPA 365.4 WETA/53239 35221170002 SLSW-1-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170003 SLSW-1-2 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170004 SLSW-1-3 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170005 SLSW-2-0 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170006 SLSW-2-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170007 SLSW-2-3 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170008 SLSW-2-5 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170010 SLSW-3-0 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170010 SLSW-3-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170011 SLSW-3-1 <td< td=""><td>35221170015</td><td>SLSW-4-5</td><td>EPA 353.2</td><td>WETA/53203</td><td></td><td></td></td<>	35221170015	SLSW-4-5	EPA 353.2	WETA/53203		
35221170001 SLSW-1-0 EPA 365.4 WETA/53213 EPA 365.4 WETA/53239 35221170002 SLSW-1-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170003 SLSW-1-2 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170004 SLSW-1-3 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170005 SLSW-2-0 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170006 SLSW-2-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170007 SLSW-2-3 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170008 SLSW-2-3 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170009 SLSW-3-0 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170010 SLSW-3-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170011 SLSW-3-3 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170012 SLSW-3-5 EPA 365.4 WETA/53223 EPA 365.4	35221170016	SLSW-4-5-DUP	EPA 353.2	WETA/53203		
35221170002 SLSW-1-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170003 SLSW-1-2 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170004 SLSW-1-3 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170005 SLSW-2-0 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170006 SLSW-2-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170007 SLSW-2-3 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170008 SLSW-2-5 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 3522117009 SLSW-3-0 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170010 SLSW-3-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170010 SLSW-3-3 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170010 SLSW-3-5 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170011 SLSW-3-5 EPA 365.4 WETA/53223 EPA 365.4 <	35221170017	SLSW-4-9	EPA 353.2	WETA/53203		
35221170003SLSW-1-2EPA 365.4WETA/53223EPA 365.4WETA/5324935221170004SLSW-1-3EPA 365.4WETA/53223EPA 365.4WETA/5324935221170005SLSW-2-0EPA 365.4WETA/53223EPA 365.4WETA/5324935221170006SLSW-2-1EPA 365.4WETA/53223EPA 365.4WETA/5324935221170007SLSW-2-3EPA 365.4WETA/53223EPA 365.4WETA/5324935221170008SLSW-2-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170009SLSW-3-0EPA 365.4WETA/53223EPA 365.4WETA/5324935221170010SLSW-3-1EPA 365.4WETA/53223EPA 365.4WETA/5324935221170011SLSW-3-3EPA 365.4WETA/53223EPA 365.4WETA/5324935221170012SLSW-3-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170013SLSW-4-0EPA 365.4WETA/53223EPA 365.4WETA/5324935221170014SLSW-4-1EPA 365.4WETA/53223EPA 365.4WETA/5324935221170015SLSW-4-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170014SLSW-4-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170015SLSW-4-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170016SLSW-4-5-DUPEPA 365.4WETA/53223EPA 365.4WETA/53249	35221170001	SLSW-1-0	EPA 365.4	WETA/53213	EPA 365.4	WETA/53239
35221170004SLSW-1-3EPA 365.4WETA/53223EPA 365.4WETA/5324935221170005SLSW-2-0EPA 365.4WETA/53223EPA 365.4WETA/5324935221170006SLSW-2-1EPA 365.4WETA/53223EPA 365.4WETA/5324935221170007SLSW-2-3EPA 365.4WETA/53223EPA 365.4WETA/5324935221170008SLSW-2-5EPA 365.4WETA/53223EPA 365.4WETA/532493522117009SLSW-3-0EPA 365.4WETA/53223EPA 365.4WETA/5324935221170010SLSW-3-1EPA 365.4WETA/53223EPA 365.4WETA/5324935221170011SLSW-3-3EPA 365.4WETA/53223EPA 365.4WETA/5324935221170012SLSW-3-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170013SLSW-4-0EPA 365.4WETA/53223EPA 365.4WETA/5324935221170014SLSW-4-1EPA 365.4WETA/53223EPA 365.4WETA/5324935221170015SLSW-4-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170015SLSW-4-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170015SLSW-4-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170016SLSW-4-5-DUPEPA 365.4WETA/53223EPA 365.4WETA/5324935221170016SLSW-4-5-DUPEPA 365.4WETA/53223EPA 365.4WETA/53249	35221170002	SLSW-1-1	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170005SLSW-2-0EPA 365.4WETA/53223EPA 365.4WETA/532493522117006SLSW-2-1EPA 365.4WETA/53223EPA 365.4WETA/532493522117007SLSW-2-3EPA 365.4WETA/53223EPA 365.4WETA/532493522117008SLSW-2-5EPA 365.4WETA/53223EPA 365.4WETA/532493522117009SLSW-3-0EPA 365.4WETA/53223EPA 365.4WETA/532493522117010SLSW-3-1EPA 365.4WETA/53223EPA 365.4WETA/532493522117011SLSW-3-3EPA 365.4WETA/53223EPA 365.4WETA/532493522117012SLSW-3-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170013SLSW-4-0EPA 365.4WETA/53223EPA 365.4WETA/532493522117014SLSW-4-1EPA 365.4WETA/53223EPA 365.4WETA/5324935221170015SLSW-4-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170016SLSW-4-5-DUPEPA 365.4WETA/53223EPA 365.4WETA/53249	35221170003	SLSW-1-2	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170006SLSW-2-1EPA 365.4WETA/53223EPA 365.4WETA/532493522117007SLSW-2-3EPA 365.4WETA/53223EPA 365.4WETA/532493522117008SLSW-2-5EPA 365.4WETA/53223EPA 365.4WETA/532493522117009SLSW-3-0EPA 365.4WETA/53223EPA 365.4WETA/5324935221170010SLSW-3-1EPA 365.4WETA/53223EPA 365.4WETA/5324935221170011SLSW-3-3EPA 365.4WETA/53223EPA 365.4WETA/5324935221170012SLSW-3-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170013SLSW-4-0EPA 365.4WETA/53223EPA 365.4WETA/5324935221170014SLSW-4-1EPA 365.4WETA/53223EPA 365.4WETA/5324935221170015SLSW-4-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170016SLSW-4-5-DUPEPA 365.4WETA/53223EPA 365.4WETA/53249	35221170004	SLSW-1-3	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170007SLSW-2-3EPA 365.4WETA/53223EPA 365.4WETA/5324935221170008SLSW-2-5EPA 365.4WETA/53223EPA 365.4WETA/532493522117009SLSW-3-0EPA 365.4WETA/53223EPA 365.4WETA/5324935221170010SLSW-3-1EPA 365.4WETA/53223EPA 365.4WETA/5324935221170011SLSW-3-3EPA 365.4WETA/53223EPA 365.4WETA/5324935221170012SLSW-3-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170013SLSW-4-0EPA 365.4WETA/53223EPA 365.4WETA/5324935221170014SLSW-4-1EPA 365.4WETA/53223EPA 365.4WETA/5324935221170015SLSW-4-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170016SLSW-4-5-DUPEPA 365.4WETA/53223EPA 365.4WETA/53249	35221170005	SLSW-2-0	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170008SLSW-2-5EPA 365.4WETA/53223EPA 365.4WETA/532493522117009SLSW-3-0EPA 365.4WETA/53223EPA 365.4WETA/5324935221170010SLSW-3-1EPA 365.4WETA/53223EPA 365.4WETA/5324935221170011SLSW-3-3EPA 365.4WETA/53223EPA 365.4WETA/5324935221170012SLSW-3-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170013SLSW-4-0EPA 365.4WETA/53223EPA 365.4WETA/5324935221170014SLSW-4-1EPA 365.4WETA/53223EPA 365.4WETA/5324935221170015SLSW-4-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170016SLSW-4-5-DUPEPA 365.4WETA/53223EPA 365.4WETA/53249	35221170006	SLSW-2-1	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170009SLSW-3-0EPA 365.4WETA/53223EPA 365.4WETA/5324935221170010SLSW-3-1EPA 365.4WETA/53223EPA 365.4WETA/5324935221170011SLSW-3-3EPA 365.4WETA/53223EPA 365.4WETA/5324935221170012SLSW-3-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170013SLSW-4-0EPA 365.4WETA/53223EPA 365.4WETA/5324935221170014SLSW-4-1EPA 365.4WETA/53223EPA 365.4WETA/5324935221170015SLSW-4-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170016SLSW-4-5-DUPEPA 365.4WETA/53223EPA 365.4WETA/53249	35221170007	SLSW-2-3	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170010SLSW-3-1EPA 365.4WETA/53223EPA 365.4WETA/5324935221170011SLSW-3-3EPA 365.4WETA/53223EPA 365.4WETA/5324935221170012SLSW-3-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170013SLSW-4-0EPA 365.4WETA/53223EPA 365.4WETA/5324935221170014SLSW-4-1EPA 365.4WETA/53223EPA 365.4WETA/5324935221170015SLSW-4-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170016SLSW-4-5-DUPEPA 365.4WETA/53223EPA 365.4WETA/53249	35221170008	SLSW-2-5	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170011SLSW-3-3EPA 365.4WETA/53223EPA 365.4WETA/5324935221170012SLSW-3-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170013SLSW-4-0EPA 365.4WETA/53223EPA 365.4WETA/5324935221170014SLSW-4-1EPA 365.4WETA/53223EPA 365.4WETA/5324935221170015SLSW-4-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170016SLSW-4-5-DUPEPA 365.4WETA/53223EPA 365.4WETA/53249	35221170009	SLSW-3-0	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170012SLSW-3-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170013SLSW-4-0EPA 365.4WETA/53223EPA 365.4WETA/5324935221170014SLSW-4-1EPA 365.4WETA/53223EPA 365.4WETA/5324935221170015SLSW-4-5EPA 365.4WETA/53223EPA 365.4WETA/5324935221170016SLSW-4-5-DUPEPA 365.4WETA/53223EPA 365.4WETA/53249	35221170010	SLSW-3-1	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170013 SLSW-4-0 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170014 SLSW-4-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170015 SLSW-4-5 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170016 SLSW-4-5-DUP EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 WETA/53249 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 SLSW-4-5-DUP EPA 365.4 WETA/53223 EPA 365.4 WETA/53249	35221170011	SLSW-3-3	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170014 SLSW-4-1 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170015 SLSW-4-5 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170016 SLSW-4-5-DUP EPA 365.4 WETA/53223 EPA 365.4 WETA/53249	35221170012	SLSW-3-5	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170015 SLSW-4-5 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249 35221170016 SLSW-4-5-DUP EPA 365.4 WETA/53223 EPA 365.4 WETA/53249	35221170013	SLSW-4-0	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170016 SLSW-4-5-DUP EPA 365.4 WETA/53223 EPA 365.4 WETA/53249	35221170014	SLSW-4-1	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
	35221170015	SLSW-4-5	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
35221170017 SLSW-4-9 EPA 365.4 WETA/53223 EPA 365.4 WETA/53249	35221170016	SLSW-4-5-DUP	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249
	35221170017	SLSW-4-9	EPA 365.4	WETA/53223	EPA 365.4	WETA/53249



WO#:35221170

F-CUSTODY / Analytical Request Document ustody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section		21170								Sect	tion C																_			_	
	Client Information:	Required Pr	oject	Infor	mation:	8						forma	tion:													P	age :	A	1	Of	2
Company	ATKINS Global	Report To:	Matt	t Starr	r					1.1.1.1.1.1.1.1.1	ntion:															-			1	-	-
Address:	4030 West Boy Scout Blvd., Su	Copy To:								Com	pany	Name	¢											1			-	2.2			_
	L 33607										ress:																Regu	latory	Agency	y	
	matthew.starr@atkinsglobal.com	Purchase Or	12/22 23	_						1. A.	e Quo																				
Phone:	727-409-0733 Fax	Project Nam	e:	Saw	grass La	ake SW			1	_		ect Ma			_	.valde	r@pa	celab	S.CO	m,				1			Stat	te / Loc	cation		
Request	d Due Date:	Project #:		-	_				-	Pace	e Prof	file #:	69	64 lin	e 5		-	-	_			Start V C						FL	_		
-			1	-	-				r -	-	_		_	_	-		-	1	T	Requ	ested	Analy	sis Fil	tered	(Y/N)		-				
		ATRIX CODE	des to left)	C=COMP)		COLLE	ECTED		NOI			F	rese	ervat	ives		NIX	17		-tp								-	_		
	SAMPLE ID Solution Solution Solution Sample ID Solution S	/ipe WP	DE (see valid codes to left)	(G=GRAB	ST	ART	E	ND	SAMPLE TEMP AT COLLECTION	INERS	p						Analyses Test	Total Nitrogen (TKN+NO2+	ohorus	200.7 AS, Pb,Ca,Mg,T-hard							Chlorine (Y/N)				
ITEM #	(A-2, 0-97, -) 0	ther OT Issue TS	MATRIX CODE	SAMPLE TYPE	DATE	TIME	DATE	TIME	SAMPLE TE	# OF CONTAINERS	Unpreserved	H2SO4	HCI	NaOH	Na2S203	Methanol	Analys	Total Nitroc	Total Phosphorus	200.7 AS, F							Residual C				
1	SLSW-1-0		WT	G	2/15/	1125				3	_	-	2	1				2	×	×						Π					
2	SLSW-1-1		1		2/15/	1130				1			1					Π	1	1						\square					
3	SLSW-1-2		T		1	1135												F	1								Π				
4	5LSW-1-3		1			1138						1						H	1			1									
5	SLSW-2-0		T			0931												H	1	tt						+					
6	SLSW-2-1		1			0934				1		11							1	T						\square					
7	SLSW-2-3		1			0937				1			1					T	11	T						+			-		
8	SLSW-2-5		1			0939												П		T						\square					
9	SLSW-3-0		1			0953												1	1	1			1								
10	515W-3-1	-	T			0956						1						T	1	1						\square					
11	SLSW - 3-3		11		Y	0958				1								1	N	1.1											9
12	SLSW-3-5		V	V	V	1000				V		11	V					N	1 -	M			10								
.~	ADDITIONAL COMMENTS		RELIN	QUIS	HED BY /	AFFILIATIC	DN	DAT	E		ТІМЕ		-		ACCE	EPTED	BY/A	FFILI	ATIO	N			DATE	E	TIM	AE		SAM	APLE C	ONDITION	IS
Metals	=As, Pb.Ca.Mg.Total hardness Empty Com	Somens -	5		-	me	12	14/11	4	13	w						11						1	1				T			-
		B	2	2	Ð	Br	r	12/15	15		5	5	·/	U	Al	aj	64	1	Pa	ac	e	12	2/15	115	130	55		-	_		
											-					-												-			
						SAMPLE	R NAME		11.00				-		-				-	-	-						U C	uo pa			s
						SIG	NATURE	A. H	LER	sol		-	-				_	Т	DA	TE/SI	gned:	1	-		-		TEMP in	Receive	N)	ealed	Samples Intact (Y/N)

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section Require	A d Client Information:	Section B Required P	roiect	Info	ormation:						tion C	C nform	atior	1:														Page	0	2	Of	2
Compan		Report To:		t Star	_					-	ntion:							-		-					É.		-	i ugo	-	-0		0
Address:		Copy To:								Con	pany	Nam	e:	-								_										
	FL 33607	11 2 20								-	ress:	-							-			-						Reg	ulat	ory Agend	v	
	matthew.starr@atkinsglobal.com	Purchase O	rder #	:		_				-	e Quo	ote:			-					-										1.5	-	
Phone:	727-409-0733 Fax	Project Nam	ne:	Sav	wgrass La	ke SW				Pac	e Proj	ject M	lanag	er:	mik	e.vald	ler@t	oace	abs.	com.					1			St	ate /	Location		
	ed Due Date:	Project #:								-		file #:		964 lir			GI				-									FL	-	
																	T			R	eques	ted A	nalys	sis Fil	tered	(Y/N))	1				
	MATRI Diriki Water	K CODE 9 Water DW WT	(see valid codes to left)	C=COMP)		COLLE	ECTED		CTION				Pres	erva	tives			VIA	2+N										-			
	SAMPLE ID One Character per box.	l P lid SL OL WP		E (G=GRAB		ART	E	ND	IP AT COLLE	NERS	T							es Test	en (TKN+NC	horus	b,Ca,Mg,T-h	I							Chlorine (Y/N)			
ITEM #	(A-Z, 0-97, -) Air Other Sample Ids must be unique Tissue	AR OT TS	MATRIX CODE	SAMPLE TYPE	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HN03	NaOH	Na2S203	Methanol	Other	Analyses Test	Total Nitrogen (TKN+NO2+h	Total Phosphorus	200.7 AS, Pb,Ca,Mg,T-hard								Residual Ch			
1	SLSW-4-0		WT	G	12/15/ 2015	1028				3		4	7						X	20	Y											
2	SLSW-4-1		1	1	1	1030				1			1																			
3	SLSW-4-5					1032	4																									
4	5LSW-4-5 - DUP					1032				N									1	Y	Y											
5	SLSW- 4-9		V	V	X	1036				1		V	V						V	V	W											
6					17.3																											
7													1																	-		
8																																
9						1.11																								1		
10						1.21																										
11						E.																										
12													1											•								
	ADDITIONAL COMMENTS		RELIN	QUIS	SHED BY /	AFFILIATIO	л	DAT	E		TIME				ACC	EPTE	DBY	/ AFF	ILIAT	ION				DATE		т	IME			SAMPLE C	ONDITION	IS
Metal	s=As, Pb,Ca,Mg,Total hardness Enory Cor	owen	2			0		1									11		~					1	,							
		6	4	A	-16	Au	-	12/19	15	13	35	5	Cl	ul	40	at	4		Po	7 (e		14	415	15	13	55	5	-			
						-		1				1							_				1									
							NT Name	AND SIG	IFR		1.	-		-	-				-									- 0	,	uop		10
							NATURE	of SAMP	LER	400	(In							75	PATE	Sigr	ed:	5	-				TEMP in C		Receive Se Y/N)	Custody tealed	Samples Intact (Y/N)

2	Document Name		Document Revised:	_
Pace Analytical Horde Laboratory	Sample Condition Upon Re Document No.:	S	August 11, 2014 Issuing Authority:	_
	F-FL-C-007 rev. 0		Pace Florida Quality Office	
Sa	ample Condition Upon Recei	-	Table Number:	10
	Client Name: A+Ki	ns Pro	oject #52211	10
Courier: 🔲 Fed Ex 🗌 UP	S 🗌 USPS 🕅 Commercia	I 🗌 Pace	Other	
Tracking #				
Custody Seal on Cooler/Bo	ox Present: 🗌 yes 📈 no Sea	ls intact: 🗌 yes 🗌 no	Date and Initials of person exam contents: <u>i</u> M (2/15/1	ining
Packing Material: 🔲 Bubb	le Wrap	Other		<u>)</u>
Thermometer Used	TPATY Type of Ice: We	Blue None CLA	λ . The share the state of t	
Cooler Temperature°C	3 (Visual) - 0.1 (Correctio	n Factor)(A	(Temp should be above freezing sample frozen?	(06C) II be
	0,1	1.4	□Yes □No	
Receipt of samples satis	factory: ZYes DNG	L	Rush TAT requested on COC:	
If yes, then all conditions b	pelow were met:		describe issue (use comments are	a if neces
Chain of Custody Present				
Chain of Custody Filled Out	malas Nama COC			
Relinquished Signature & Sa Samples Arrived within Hold		0		
			×	
Sufficient Volume				
Correct Containers Used				
Containers Intact		a		
Sample Labels match COC (sample IDs & date/time of collection)	0		
All containers needing preservat	tion are found to be in		ime/Date on Labels.	
compliance with EPA recommen	ndation.			
No Headspace in VOA Vials	(>6mm):			
Client Notification/ Resolut	ion:			
Person Contacted:		e/Time:		
Comments/ Resolution (use I	back for additional comments):			
				_
Project Manager Paulou			Data	
Project Manager Review:	-		Date:	_
	Finished Product	Information Only		â
F.P. Sample ID:		Siz	e & Qty of Bottles Received	1
			x 5 Gal	
Production Code:			x 2.5 Gal x 1 Gal	
Date/Time Opened:			x 1 Liter	
Number of Unopened Bottle	es Remaining:		x 500 mL x 250 mL	
in the second points bottom			x Other:	-
Extra Sample in	n Shed: Yes No			

Page 36 of 36