

**Phase II Environmental Site Assessment for
Carolina Club
3011 N Rock Island Road, Margate, FL**



Prepared for:
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Prepared by:



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WGI Project No. 10469.00

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1.0 INTRODUCTION

The subject property is the Carolina Club golf course. A map is provided as **Figure 1**.

Subject Property Description		
Project name	Carolina Club	
Address	3011 N Rock Island Road, Margate, Florida	
Subject property ID number(s)	<u>Broward County Parcel ID #</u>	<u>Acres</u>
	4841-23-00-0020	137.5
	4841-23-06-0040	5.9
Size	143 acres	
FDEP Facility IDs	ERIC_6801, and 8732113	

Source(s):
County Property Appraiser's website

The history of the subject property was determined by a Phase I Environmental Site Assessment (ESA) prepared by WGI and dated March 2024. A summary of the key parts of the history that are relevant to this Phase II ESA include the following:

- The golf course was constructed in the early 1970s on previously-undeveloped and forested land. The golf course was active for over four decades then became inactive circa 2019. WGI found no evidence of other land uses, including no evidence of former agriculture.
- There has been no substantial golf course reconfiguration since it was originally constructed in the early 1970s; the general layout of the tee boxes, fairways, and greens has been generally similar from the 1970s to the present. However, between 1988 and 1992, some of the ponds were expanded and some new ponds were dug; this resulted in the removal and replacement of at least one green – the one northwest of the maintenance area. The changes to the ponds occurred concurrently with, and apparently associated with, development of the residential community around the golf course.
- Arsenic has been previously documented above soil and groundwater cleanup target levels at the maintenance area as well as outside the maintenance area. A Declaration of Restrictive Covenant (DRC) dated April 17, 2008 requires an engineering control (cap) at the maintenance area and institutional controls (land use restrictions) on the entire subject property. The institutional controls include several restrictions, including but not limited to, a prohibition on groundwater withdrawal and land use restrictions which limit the land use to a golf course facility.

1.1 Purpose of the Phase II ESA

The Phase I ESA dated March 14, 2024 found the following Recognized Environmental Conditions (RECs) and Controlled Recognized Environmental Condition (CREC):

- **REC 1:** PAH Soil and Groundwater Contamination at the Maintenance Area. There is soil and groundwater contamination by polycyclic aromatic hydrocarbons (PAHs) at the southwest corner of the maintenance building; the maintenance building is located near the center of the subject property. Two USTs were removed from this location in 1989 (FDEP Facility ID # 8732113). Assessment and remediation have been ongoing for years but soil and groundwater contamination remains today. Additional soil removal is anticipated to occur in 2024.

- This REC is currently undergoing State-funded assessment and cleanup; therefore, it is not assessed in this Phase II ESA.
- **REC 2:** Possible Presence of Arsenic outside the Maintenance Area. A Site Assessment Report Addendum (SARA) dated May 29, 2003 delineated soil and groundwater contamination by arsenic at the maintenance building, but also stated that the soil contamination is slightly outside the main area because elevated arsenic levels were also found in borings SB-19, 20, and 21. At 0 feet to 2 feet below land surface, the arsenic levels ranged from 9.4 mg/kg to 26.0 mg/kg and at 4 feet to 6 feet below land surface the arsenic levels ranged from 3.0 mg/kg to 3.8 mg/kg. On April 26, 2007 Broward County Engineering and Permitting Division noted that arsenic impacts to the soil were not limited to just the maintenance building area, so the intended golf-course-only restriction should apply to the entire property. The DRC dated April 17, 2008 appears to specify that the entire golf course shall remain a golf course. WGI considers the possible presence of arsenic outside the maintenance area as a REC because soil sampling data indicate that arsenic is present outside the maintenance area and it is likely that it extends to other parts of the golf course.
 - This REC is the subject of this Phase II ESA.
- **CREC 1:** Arsenic in Soil and Groundwater at the Maintenance Area. Arsenic has been documented in soil and groundwater above cleanup target levels in the maintenance area (**Figure 4**). A Declaration of Restrictive Covenant (DRC) dated April 17, 2008 established two engineering controls: an impervious “Paved Cap Area” and a “Clean Fill Cap Area” (**Figure 5**). The DRC imposes several restrictions, including but not limited to, restrictions on the area of soil contamination, a prohibition on groundwater withdrawal, and land use restrictions which limit the land use to a golf course facility. WGI considers the arsenic contamination in soil and groundwater at the maintenance area a CREC because arsenic contamination has been approved to remain in place with engineering and institutional controls.
 - This CREC is located in the same general area as the PAH contamination of REC 1. Soil and groundwater remediation are ongoing in this area to address the PAH issue, with additional soil removal expected to occur in 2024. As this area is undergoing remediation, this Phase II ESA does not address this area at this time.

1.2 Limitations of a Phase II ESA

The Phase II ESA was completed to evaluate a specific REC. While reasonable efforts have been made to identify the presence of environmental items of potential concern, reasonable efforts may not always identify evidence of all items of concern, which could exist but be hidden from view. Further, it is inherent in Phase II ESA work that sampling is limited to certain areas and certain analytes; it is not possible to denounce the presence of impacts in all areas. WGI warrants that the findings presented herein are based on recognized practice for conducting a Phase II ESA. No other warranties are expressed or implied.

2.0 PHYSICAL CHARACTERISTICS OF THE SITE

2.1 Topography

The topography in this part of the County is nearly flat. The direction of flow of a contamination spill either onsite or offsite is more likely to be affected by localized curbs, structures, swales, canals, berms, or other drainage features than regional topography. The golf course has undulating man-made topography typical of a golf course. **Figure 2** contains a LiDAR image showing the topography. Much of the golf course is approximately 12 feet National Geodetic Vertical Datum (NGVD) in elevation, according to USGS topographic data. Many of the tee boxes and greens are approximately 3 to 4 feet higher. East of the maintenance area (downrange of the driving range) is a berm that is approximately 23 ft NGVD which is about 11 feet higher the nominal elevation of the golf course. There are several lakes; these are man-made and part of the stormwater management system.

2.1 Depth to Groundwater and Flow Direction

At the maintenance area, the depth to groundwater is approximately 4.8 to 7.3 feet below land surface; this is based on information in a Template Site Assessment Report dated 3/31/2016 for the maintenance area. The depth to groundwater is not well established in other parts of the golf course. Based on the water levels in the lakes within or proximal to the subject property, the depth to groundwater is likely to be approximately 2 to 5 feet in most parts of the golf course. The depth to groundwater likely varies seasonally and may be locally influenced by several factors such as proximity to water bodies.

Groundwater flow direction is important in assessing contamination potential. According to the sources cited below, regional flow direction in this part of the County is to the southeast. Groundwater flow direction can be locally influenced by canals, lakes, and other features. Also, groundwater flow direction can change seasonally as surface water levels vary during the wet and dry seasons. A Template Site Assessment Report dated 3/31/2016 indicated groundwater flow direction at the southwest corner of the maintenance building in December 2014 was to the north and stated that the flow direction is variable. A Remedial Action Interim Report for the maintenance area dated 12/17/2018 indicated groundwater flow at the maintenance area in November 2018 was to the southeast.

Source(s):

Andreyev Engineering, Inc "Carolina Club Annual Natural Attenuation Monitoring Report" May 9, 2017.

Causaras, C.R., 1985. Geology of the Surficial Aquifer System, Broward County, Florida, U.S. Geological Survey, Water Resources Investigations Report 84-4068.

2.2 Soil Types

According to the U.S. Department of Agriculture Natural Resources Conservation Service, the subject property is mapped as having several soil types (**Figure 3**). The predominant soil types are as follows:

- Matlacha gravelly fine sand, limestone substratum. 48 inches of gravelling fine sand, fine sand, and fine sandy loam overlying bedrock.
- Hallandale Fine Sand: 12 inches of fine sand overlying bedrock.
- Boca Fine Sand: 30 inches of fine sand and fine sandy loam overlying bedrock.
- Plantation, ponded-Matlacha-Urban land complex: 10 inches of muck, then fine sand and fine sandy loam to 33 inches, then bedrock.

The soil types generally allow vertical migration of potential contamination; the soil types generally do not contain low permeability layers that facilitate substantial horizontal migration of contaminants in the vadose zone. Given the extensive earthwork that occurred to create the golf course and stormwater management system, the natural soil profile likely has been substantially disrupted or destroyed in most or all of the property.

Source(s):

U.S. Department of Agriculture, Natural Resources Conservation Service (NRCS), Web Soil Survey (WSS)
<http://websoilsurvey.nrcs.usda.gov/app/>

3.0 CONCEPTUAL SITE MODEL

Based on the history of the subject property as a golf course, it is likely that agrichemicals such as pesticides, herbicides, and fertilizers were applied to the ground surface on a frequency and manner typical of routine golf course maintenance. Application of agrichemicals on the golf course would have occurred for over four decades when the golf course was active - from the early 1970s until circa 2019.

The contaminants of concern would be agrichemicals that persist in the environment such as arsenic and organochlorine pesticides (OCPs), particularly dieldrin.

Based on this conceptual site model of surficial application, residual agrichemicals on the golf course field of play would likely be present in the upper part of the soil profile. Concentrations would likely be higher in surficial soils where application occurred. Given the sandy soils, leaching could have resulted in contaminants migrating downward in the soil profile and into the groundwater.

The maintenance area was where the chemicals were stored, mixed, loaded, and washed off equipment. This is a potential point source of contamination and is an area where higher concentrations would be expected. Further, petroleum products have been stored at the maintenance area; assessment and remediation of petroleum products is ongoing at the maintenance area under a state-funded cleanup program.

Offsite, there was some agricultural use of the surrounding lands. For example, row crops are evident adjoining the subject property to the northeast in a 1971 historical aerial photograph. Past regional agricultural use of the area may have contributed to groundwater contamination; there may be background levels of anthropogenic arsenic and OCPs from past regional agricultural use of the area that is unrelated to the Carolina Club golf course.

4.0 SOIL AND GROUNDWATER TESTING

This Phase II ESA is based on data collected during a previous due diligence effort in 2018. That due diligence effort was terminated and the results were not assembled into a Phase II ESA at that time.

4.1 Soil Sampling Methodology

SB-01 through SB-09: These nine (9) soil borings were conducted on 1/2/2018. The boring locations were selected to represent a range of the land uses – borings were conducted on golf tee boxes, greens, and fairways (**Figure 6** and **Table 1**). The borings were done with a hand auger. The sampling plan was to sample at the standard depth intervals of 0-0.5 feet below land surface (bls), 0.5 to 2 ft bls, and every 2 feet thereafter to the water table. Hand auger refusal from limestone was encountered in several borings which terminated some borings before reaching the water table. All seven samples from borings SB-01, -02, and -03 were analyzed for arsenic by EPA Method 6020 and organochlorine pesticides (OCPs) by EPA Method 8081. The other samples were analyzed for arsenic only. Selected samples were also analyzed for leachable arsenic using Synthetic Precipitation Leaching Procedure (SPLP). Boring depths are listed on **Table 1**.

SB-10 through SB-15: These six (6) soil borings were conducted on 1/9/2018. The locations are shown in **Figure 6**. These borings were done using a direct push rig to collect samples in macrocore sleeves. They were sampled at the standard depth intervals of 0-0.5 ft bls, 0.5 to 2 ft bls, 2 to 4 ft bls, and 4 to 6 ft bls. The samples were analyzed for arsenic. Selected samples were also analyzed for leachable arsenic using SPLP. Boring depths are listed on **Table 1**. Four of these borings were used to install temporary monitoring wells: SB-10 / TMW-01, SB-11 / TMW-02, SB-12 / TMW-03, and SB-13 / TMW-04.

All samples were location and depth discrete; no composite sampling was performed. The soil samples were collected according to FDEP Standard Operating Procedures (SOPs). The samples were analyzed at Pace Analytical, a NELAP

(National Environmental Laboratory Accreditation Program) accredited laboratory. **Appendix A** contains the soil sampling logs. **Appendix B** contains the laboratory reports with chains-of-custody.

4.2 Soil Sampling Results

Arsenic exceeds the residential direct exposure SCTL of 2.1 mg/kg in most samples, and it exceeds the commercial/industrial direct exposure of 12 mg/kg in some locations (**Table 1**). The highest concentrations are in the upper 6 inches of the soil profile but exceedances of SCTLs are found throughout the soil profile including the deepest sample depth of 4 to 6 ft bls. This includes on the greens, tee boxes, fairways, and roughs. The highest arsenic concentration is 56.0 mg/kg. SPLP testing on 13 soil samples found that almost all samples that have arsenic above the residential SCTL also produce a SPLP result above the GCTL of 10 ug/L.

OCPs were analyzed in seven soil samples from three soil borings; no OCP results exceeded SCTLs in any of the soil samples (**Table 2**).

4.3 Groundwater Sampling Methodology

Four temporary monitoring wells were installed: TWM-01 through -04. These were installed at soil borings SB-10 through SB-13. Each was a shallow well (13 ft bls) screened across the water table. This depth interval was selected because it represents the top of the aquifer where arsenic would most likely be present if it leached through the soil from surface application. The four wells were sampled on 1/11/2018 and according to FDEP SOPs. Each well was sampled for arsenic and dieldrin. This analyte list was selected because these are the analytes that are commonly associated with golf courses. The samples were sent to Pace Analytical, a NELAP accredited laboratory. Screen depths and analytes are listed on **Table 3**. Well construction logs and groundwater sampling logs are provided in **Appendix A**. The laboratory report with chain-of-custody is provided in **Appendix B**.

4.4 Groundwater Sampling Results

Arsenic exceeded the GCTL of 10 ug/L in two of four groundwater monitoring wells (**Table 3**). The highest arsenic concentration was 23.6 ug/L.

Dieldrin was analyzed in four groundwater monitoring wells; dieldrin below the Method Detection Limit in all four wells (**Table 3**). The Method Detection Limit was less than the GCTL.

5.0 CONCLUSIONS

Arsenic:

- This Phase II ESA found arsenic in soil above residential and/or commercial SCTLs and above SPLP leachability criteria in numerous locations on the golf course. This includes on the greens, tee boxes, fairways, and roughs. This testing also found that the groundwater has arsenic above its GCTL in multiple locations. Arsenic is a contaminant of concern in soil (for direct exposure and leachability) and in groundwater.
- The property has an existing DRC that addresses the arsenic in soil and groundwater.

Pesticides including dieldrin:

- OCPs were analyzed in seven soil samples from three soil borings; no OCP results exceeded SCTLs in any of the soil samples. Dieldrin was analyzed in four groundwater monitoring wells; dieldrin was not detected in any of the groundwater samples. These data indicate that pesticides, including dieldrin, are not contaminants of concern.

There is ongoing state-funded remediation of PAHs at the southwest corner of the maintenance building.

Redevelopment of the site would likely require a Site Assessment Report, Soil Management Plan / Remedial Action Plan, remediation, verification testing, and modification to the DRC. This would be in addition to the ongoing state-funded remediation of PAHs at the southwest corner of the maintenance building.

The Phase II ESA testing is intended to provide general information on soil and groundwater quality for due diligence prior to a potential real estate transaction. It was not intended to, and did not, determine the horizontal and vertical extent of contamination.

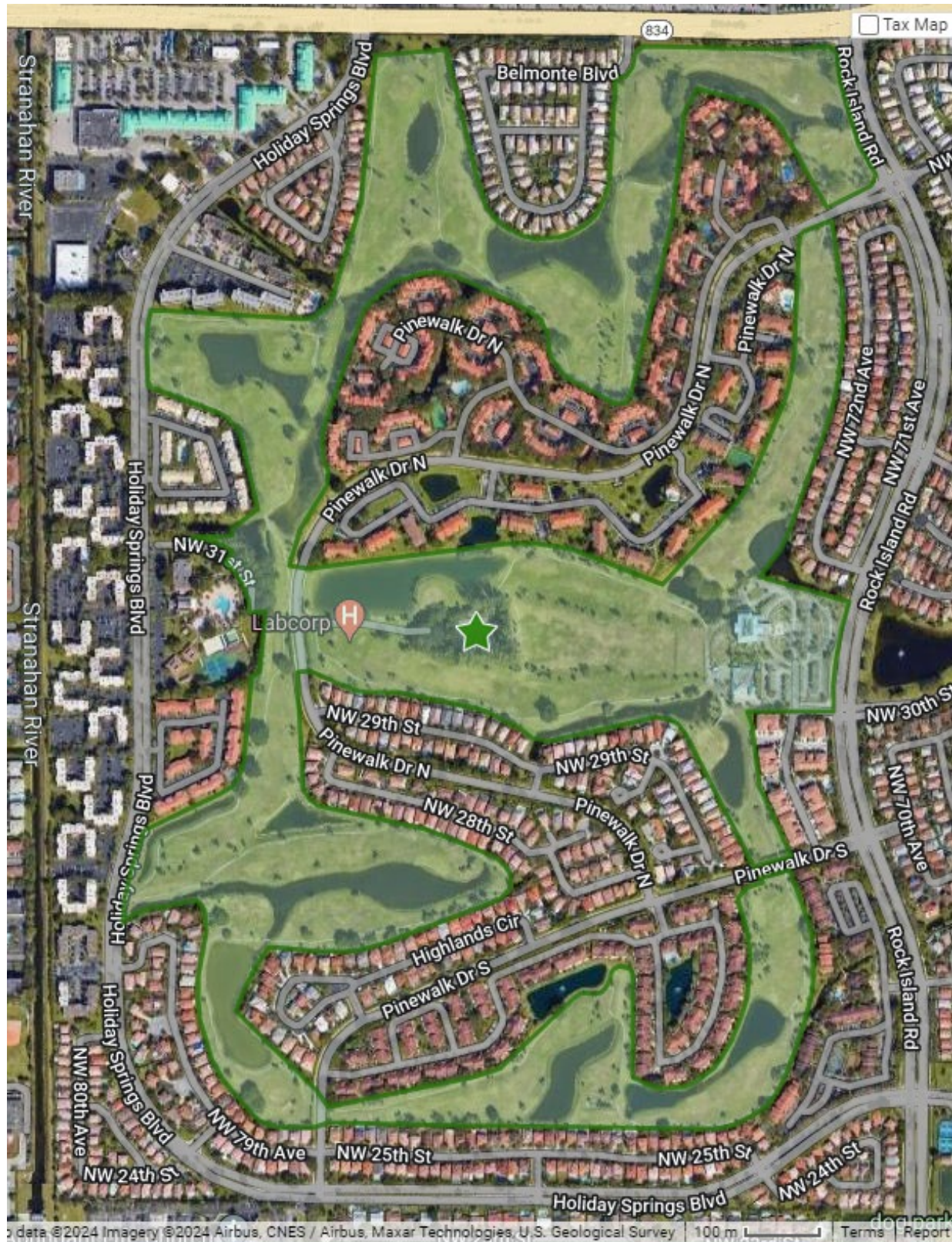


Figure 1. Map of the Subject Property



Figure 2. Topography - LiDAR
(source: SFWMD website, accessed 2024)



Figure 3. Soil Map
(source: NRCS web soil survey)

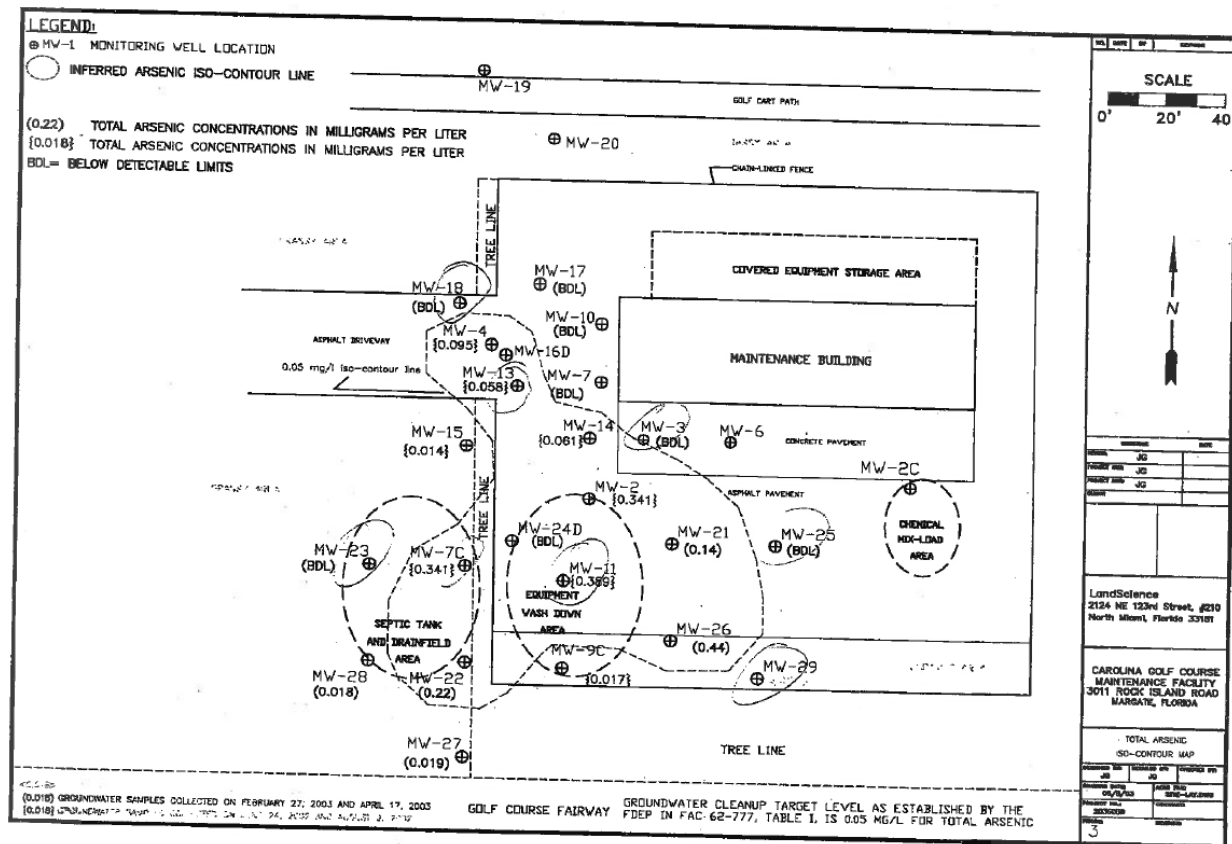


Figure 4. Location of Arsenic Groundwater Plume at the Maintenance Area.

The arsenic iso-concentration line was based on the old GCTL of 0.050 mg/L, not the new GCTL of 0.010 mg/L. These data are from February and April 2003. The maximum concentration during these sampling periods was 0.440 mg/L in MW-26.

(source: Institutional Controls and Engineering Controls Audit Program Audit Report, Arcadis, 2/14/2014)

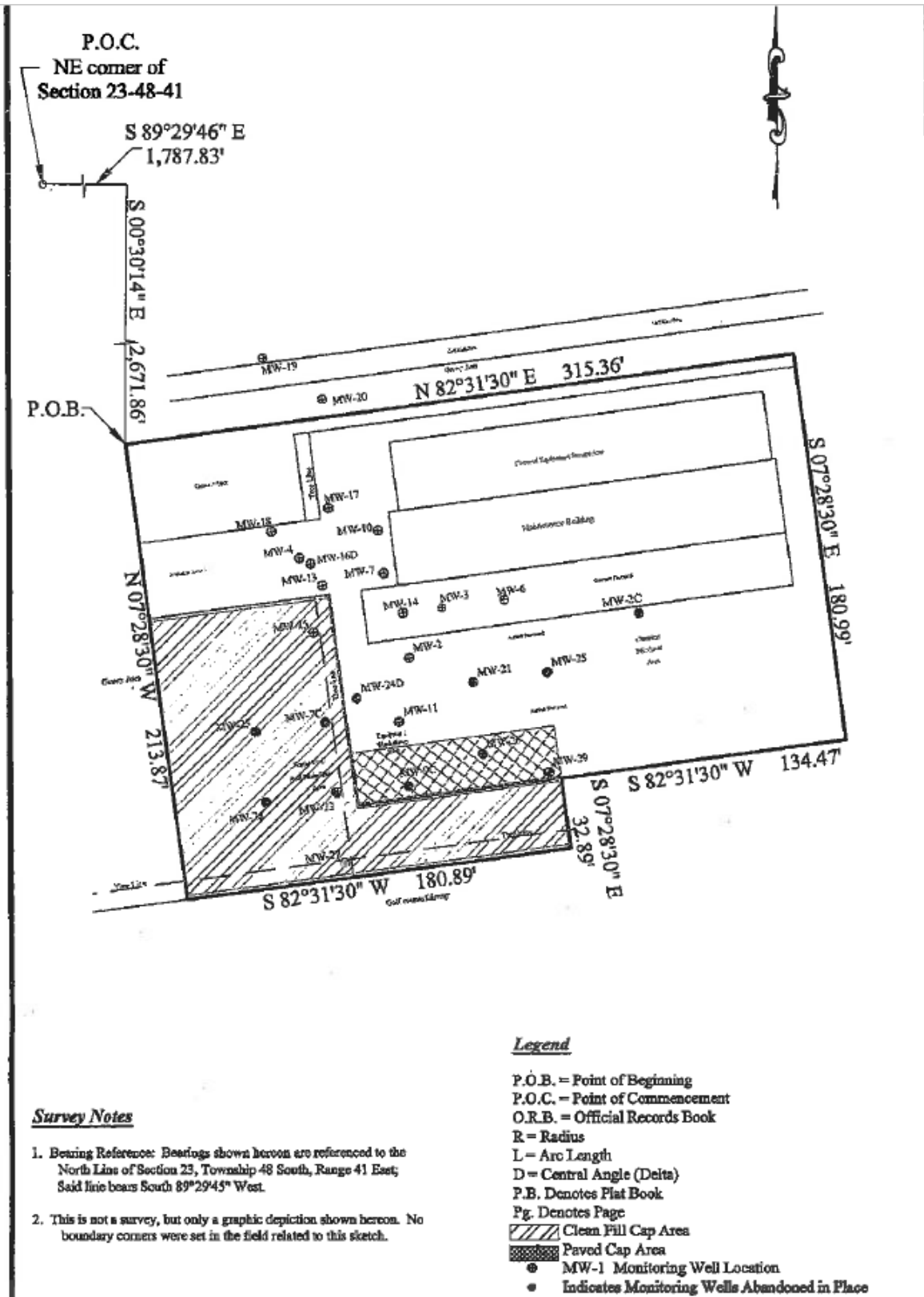
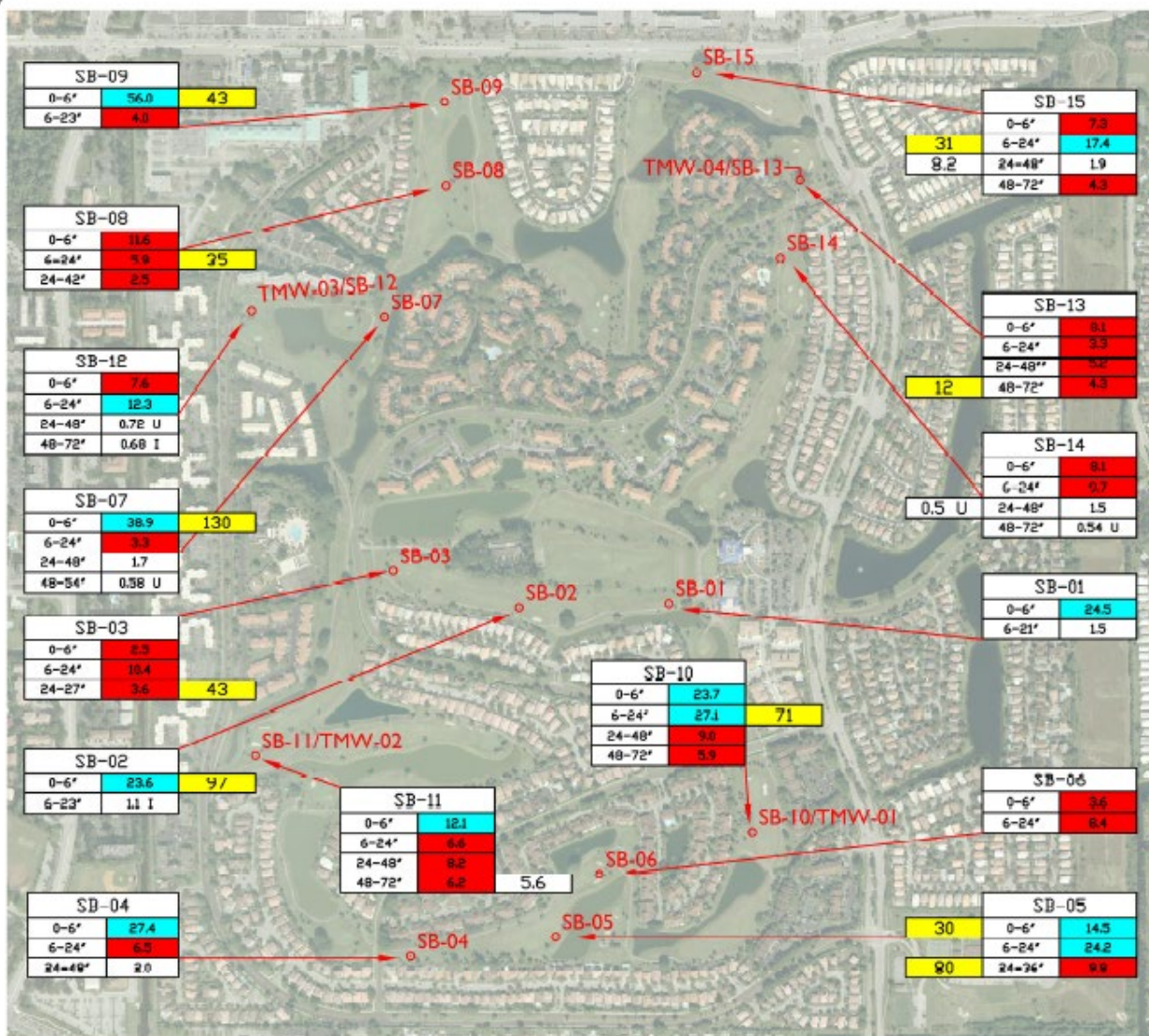


Figure 5. Sketch from the DRC indicating location of clean fill cap and paved cap area at maintenance area.
(source: Institutional Controls and Engineering Controls Audit Program Audit Report, Arcadis, 2/14/2014)

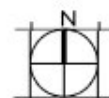


SAMPLE ID		
Depth Interval (Inches)	Arsenic (mg/kg)	SPLP (ug/L)

SPLP Exceeds Groundwater Criteria Limits
Exceeds Direct Exposure Residential Limits
Exceeds Direct Exposure Commercial/Industrial Limits

Carolina Club

Arsenic in Soil



SCALE: 1" = 800'

WGI

DRAWN BY: CNC
DRAWING #: Sampling Locations Map.dwg
FILE #: 2995.00
DATE: 02/27/2018

2035 VISTA PARKWAY, WEST PALM BEACH, FLORIDA 33411 P: (561) 687-2220 F: (561) 687-1110

Figure 6. Soil Sampling Locations with Arsenic Results, and TMW Locations

Table 1. Summary of Soil Data - Arsenic

Sample					OVA	Laboratory Analyses		
Boring / Well No.	Date Collected	Sample Interval (ft bls)	Depth to Water (ft)	Location	Net OVA Reading (ppm)	Percent Moisture	Arsenic	Arsenic SPLP
						%	(mg/kg)	(ug/L)
SB-01-01	01/02/2018	0.0 - 0.5	--	Tee	--	17.5	24.5	--
SB-01-02	01/02/2018	0.5 - 1.8	--	Tee	--	9.4	1.5	--
SB-02-01	01/02/2018	0.0 - 0.5	--	Fairway	--	14.1	23.6	97
SB-02-02	01/02/2018	0.5 - 1.9	--	Fairway	--	12.0	1.1 I	--
SB-03-01	01/02/2018	0.0 - 0.5	--	Green	--	11.5	2.5	--
SB-03-02	01/02/2018	0.5 - 2.0	--	Green	--	10.6	10.4	--
SB-03-03	01/02/2018	2.0 - 2.3	--	Green	--	12.7	3.6	43
SB-04-01	01/02/2018	0.0 - 0.5	4.0	Tee	--	13.5	27.4	--
SB-04-02	01/02/2018	0.5 - 2.0	4.0	Tee	--	7.7	6.5	--
SB-04-03	01/02/2018	2.0 - 4.0	4.0	Tee	--	27.3	2.0	--
SB-05-01	01/02/2018	0.0 - 0.5	--	Fairway	--	11.1	14.5	30
SB-05-02	01/02/2018	0.5 - 2.0	--	Fairway	--	7.5	24.2	--
SB-05-03	01/02/2018	2.0 - 3.0	--	Fairway	--	6.2	9.8	80
SB-06-01	01/02/2018	0.0 - 0.5	--	Green	--	17.6	3.6	--
SB-06-02	01/02/2018	0.5 - 2.0	--	Green	--	12.7	8.4	--
SB-07-01	01/02/2018	0.0 - 0.5	--	Tee	--	15.0	38.9	130
SB-07-02	01/02/2018	0.5 - 2.0	--	Tee	--	11.1	3.3	--
SB-07-03	01/02/2018	2.0 - 4.0	--	Tee	--	14.1	1.7	--
SB-07-04	01/02/2018	4.0 - 4.5	--	Tee	--	14.2	0.58 U	--
SB-08-01	01/02/2018	0.0 - 0.5	3.5	Fairway	--	8.8	11.6	--
SB-08-02	01/02/2018	0.5 - 2.0	3.5	Fairway	--	12.7	5.9	35
SB-08-03	01/02/2018	2.0 - 3.5	3.5	Fairway	--	28.9	2.5	--
SB-09-01	01/02/2018	0.0 - 0.5	--	Green	--	37.3	56.0	43
SB-09-02	01/02/2018	0.5 - 1.9	--	Green	--	18.1	4.0	--
SB-10-01	01/09/2018	0.0 - 0.5	4	Rough, at TMW-01	--	23.6	23.7	
SB-10-02	01/09/2018	0.5 - 2.0	4	Rough, at TMW-01	--	16.5	27.1	71
SB-10-03	01/09/2018	2.0 - 4.0	4	Rough, at TMW-01	--	8.3	9.0	--
SB-10-04	01/09/2018	4.0 - 6.0	4	Rough, at TMW-01	--	12.2	5.9	--
SB-11-01	01/09/2018	0.0 - 0.5	5.5	Rough, at TMW-02	--	26.8	12.1	--
SB-11-02	01/09/2018	0.5 - 2.0	5.5	Rough, at TMW-02	--	8.7	6.6	--
SB-11-03	01/09/2018	2.0 - 4.0	5.5	Rough, at TMW-02	--	10.4	8.2	--
SB-11-04	01/09/2018	4.0 - 6.0	5.5	Rough, at TMW-02	--	23.9	6.2	5.6

SB-12-01	01/09/2018	0.0 - 0.5	4	Rough, at TMW-03	--	16.1	7.6	--
SB-12-02	01/09/2018	0.5 - 2.0	4	Rough, at TMW-03	--	25.4	12.3	--
SB-12-03	01/09/2018	2.0 - 4.0	4	Rough, at TMW-03	--	26.2	0.72 U	--
SB-12-04	01/09/2018	4.0 - 6.0	4	Rough, at TMW-03	--	11.7	0.68 I	--
SB-13-01	01/09/2018	0.0 - 0.5	3	Rough, at TMW-04	--	9.8	8.1	--
SB-13-02	01/09/2018	0.5 - 2.0	3	Rough, at TMW-04	--	20.7	3.3	--
SB-13-03	01/09/2018	2.0 - 4.0	3	Rough, at TMW-04	--	12.7	5.2	--
SB-13-04	01/09/2018	4.0 - 6.0	3	Rough, at TMW-04	--	15.0	4.3	12
SB-14-01	01/09/2018	0.0 - 0.5	4.5	Fairway	--	15.9	8.1	--
SB-14-02	01/09/2018	0.5 - 2.0	4.5	Fairway	--	25.6	9.7	--
SB-14-03	01/09/2018	2.0 - 4.0	4.5	Fairway	--	16.0	1.5	0.50 U
SB-14-04	01/09/2018	4.0 - 6.0	4.5	Fairway	--	13.8	0.54 U	--
SB-15-01	01/09/2018	0.0 - 0.5	4	Rough	--	9.2	7.3	--
SB-15-02	01/09/2018	0.5 - 2.0	4	Rough	--	12.3	17.4	31
SB-15-03	01/09/2018	2.0 - 4.0	4	Rough	--	11.2	1.9	8.2
SB-15-04	01/09/2018	4.0 - 6.0	4	Rough	--	20.0	4.3	--
Leachability Based on Groundwater Criteria (mg/kg)						--	--	--
Direct Exposure Residential (mg/kg)						--	2.1	--
Direct Exposure Commercial/Industrial (mg/kg)						--	12	--
GCTL						--	--	10
NADC						--	--	100

Bold results are above Method Detection Limits (MDL).

U = not detected. Result shown is the MDL.

I = estimated result; result is above the MDL but below the Practical Quantitation Limit (PQL).

-- = not sampled / not analyzed / not applicable.

Exceeds Direct Exposure Residential Limits

Exceeds Direct Exposure Commercial/Industrial Limits

SPLP result exceeds GCTL

SPLP result exceeds NADC

Table 2. Summary of Soil Data - OCPs

Sample			"Laboratory Analyses"																				
Boring / Well No.	Date Collected	Sample Interval (ft)	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	Chlordane (Technical)	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor	Percent Moisture	Toxaphene	alpha-BHC	beta-BHC	delta-BHC	gamma-BHC (Lindane)
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	%	(mg/kg)	(mg/kg)	(mg/kg)
SB-01-01	01/02/2018	0.0 - 0.5	0.00016 U	0.000074 U	0.00012 U	0.000070 U	0.019 U	0.000049 U	0.000030 U	0.000069 U	0.000052 U	0.000063 U	0.000080 U	0.000097 U	0.000047 U	0.00013 U	0.0013 U	17.2	0.0089 U	0.000084 U	0.000093 U	0.00011 U	0.00018 U
SB-01-02	01/02/2018	0.5 - 1.8	0.00015 U	0.000069 U	0.00011 U	0.000065 U	0.018 U	0.000045 U	0.000028 U	0.000064 U	0.000049 U	0.000059 U	0.000074 U	0.000090 U	0.000044 U	0.00013 U	0.0012 U	11.8	0.0083 U	0.000078 U	0.000087 U	0.000098 U	0.00017 U
SB-02-01	01/02/2018	0.0 - 0.5	0.00016 U	0.000072 U	0.00011 U	0.000069 U	0.019 U	0.000048 U	0.000030 U	0.000068 U	0.000051 U	0.000062 U	0.000078 U	0.000095 U	0.000046 U	0.00013 U	0.0012 U	15.2	0.0087 U	0.000082 U	0.000092 U	0.00010 U	0.00018 U
SB-02-02	01/02/2018	0.5 - 1.9	0.00015 U	0.00021	0.00052 I	0.000065 U	0.018 U	0.000045 U	0.000028 U	0.000064 U	0.000048 U	0.000058 U	0.000074 U	0.000089 U	0.000043 U	0.00012 U	0.0012 U	10.2	0.0082 U	0.000077 U	0.000086 U	0.000097 U	0.00016 U
SB-03-01	01/02/2018	0.0 - 0.5	0.00016 U	0.000075 U	0.00012 U	0.000071 U	0.019 U	0.000049 U	0.000031 U	0.000070 U	0.000053 U	0.000064 U	0.000081 U	0.000098 U	0.000048 U	0.00014 U	0.0013 U	18.4	0.0090 U	0.000085 U	0.000095 U	0.00011 U	0.00018 U
SB-03-02	01/02/2018	0.5 - 2.0	0.00015 U	0.000069 U	0.00011 U	0.000065 U	0.047	0.000045 U	0.000028 U	0.000064 U	0.000049 U	0.000059 U	0.000075 U	0.000090 U	0.000044 U	0.0010 I	0.0012 U	10.8	0.0083 U	0.000078 U	0.000087 U	0.000098 U	0.00017 U
SB-03-03	01/02/2018	2.0 - 2.3	0.00015 U	0.000070 U	0.00011 U	0.000066 U	0.018 U	0.000046 U	0.000029 U	0.000065 U	0.000049 U	0.000059 U	0.000075 U	0.000091 U	0.000045 U	0.00022 I	0.0012 U	12.4	0.0084 U	0.000079 U	0.000088 U	0.000099 U	0.00017 U
Leachability Based on Groundwater Criteria (mg/kg)			5.8	18	11	0.2	9.6	0.002	NA	NA	NA	1	NA	NA	23	0.6	160	NA	31	0.0003	0.001	0.2	0.009
Direct Exposure Residential (mg/kg)			4.2	2.9	2.9	0.06	2.8	0.06	NA	NA	NA	25	NA	NA	0.2	0.1	420	NA	0.9	0.1	0.5	24	0.7
Direct Exposure Commercial/Industrial (mg/kg)			22	15	15	0.3	14	0.3	NA	NA	NA	510	NA	NA	1	0.5	8800	NA	4.5	0.6	2.4	490	2.5

Bold results are above Method Detection Limits (MDL).

U = not detected. Result shown is the MDL.

I = estimated result; result is above the MDL but below the Practical Quantitation Limit (PQL).

NA = not applicable.

Exceeds Leachability Based on Groundwater Criteria Limits

Exceeds Direct Exposure Residential Limits

Exceeds Direct Exposure Commercial/Industrial Limits

Table 3. Summary of Groundwater Data

Well / Sample					Arsenic	Dieldrin
Location	Well Screen Interval (ft bls)	Date	Dept to water (ft bls)	Turbidity (NTU)	(ug/L)	(ug/L)
TMW-01	3-13	01/11/2018	2.87	9.83	2.3	0.0019 U
TMW-02	3-13	01/11/2018	4.19	5.93	0.57 I	0.0019 U
TMW-03	3-13	01/11/2018	3.54	5.53	23.6	0.0019 U
TMW-04	3-13	01/11/2018	3.23	18.6	13.4	0.0019 U
GCTLs					10	0.002
NADCs					100	0.2

Bold results are above Method Detection Limits (MDL).

U = not detected. Result shown is the MDL.

I = estimated result; result is above the MDL but below the Practical Quantitation Limit (PQL).

NS = not sampled / not analyzed.

N/A = not applicable.

GCTLs = Groundwater Cleanup Target Levels specified in Table I of Chapter 62-777, F.A.C.

NADCs = Natural Attenuation Default Source Concentrations specified in Table V of Chapter 62-777, F.A.C.

Exceeds GCTL

Exceeds NADC

APPENDIX A

Soil Sampling Logs, Groundwater Sampling Logs, and Well Construction Logs

BORING LOG

Page 1 of 1

Boring/Well Number: SB- 01		Permit Number: none		FDEP Facility Identification Number: none							
Site Name: Carolina Club		Borehole Start Date: 01/07/2018	Borehole Start Time: 12:15	AM ☒ PM							
		End Date: 01/07/2018	End Time: 12:20	AM ☐ PM ☒							
Environmental Contractor: WGI (Wantman Group, Inc)		Geologist's Name: Will Lorentzen		Environmental Technician's Name: Jeremiah Marek							
Drilling Company: WGI		Pavement Thickness (inches): none	Borehole Diameter (inches): 3 inches	Borehole Depth (feet): 21' = 1.8'							
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 1.8'	Measured Well DTW (in feet after water recharges in well): -		OVA (list model and check type): none ☐ FID ☐ PID							
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):											
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)											
Sample Type	Sample Depth Interval (ft)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-6"	6					1	limerocks w/ brown organic soil and marl	SM	D	SB-01 -01 (0-6")
HA	6-21"	15					2				
							3	" "		D	SB-02-02 6"-21"
							4	Refusal @ 21"			
							5				
							6				
							7				
							8	Tree			
							9				
							10				
							11				
							12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page 1 of 1

Boring/Well Number: SB- 02		Permit Number: none		FDEP Facility Identification Number: none	
Site Name: Carolina Club		Borehole Start Date: 01/02/2018	Borehole Start Time: 12:30	☐ AM ☒ PM	
		End Date: 01/02/2018	End Time: 12:40	☐ AM ☒ PM	
Environmental Contractor: WGI (Wantman Group, Inc)		Geologist's Name: Will Lorentzen		Environmental Technician's Name: Jeremiah Marek	
Drilling Company: WGI		Pavement Thickness (inches): none	Borehole Diameter (inches): 3 inches	Borehole Depth (feet): 23' = 1.9'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): > 2'	Measured Well DTW (in feet after water recharges in well): -	OVA (list model and check type): none ☐ FID ☐ PID		
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):					
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)					

Sample Type	Sample Depth Interval (ft)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-6	6					1	Organic soil / marl with 50 linerock.	SM	D	SB-02-01 (0-6")
HA	6-23	17					2				
							3	" "			
							4	HA refusal @ linerock layer @ 23" b/s		D	SB-02-02 6"-23"
							5				
							6				
							7				
							8	fairway			
							9				
							10				
							11				
							12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: SB- 03		Permit Number: none		FDEP Facility Identification Number: none	
Site Name: Carolina Club		Borehole Start Date: 01/07/2018	Borehole Start Time: 12:45	☐ AM ☒ PM	
		End Date: 01/02/2018	End Time: 12:55	☐ AM ☒ PM	
Environmental Contractor: WGI (Wantman Group, Inc)		Geologist's Name: Will Lorentzen		Environmental Technician's Name: Jeremiah Marek	
Drilling Company: WGI		Pavement Thickness (inches): none	Borehole Diameter (inches): 3 inches	Borehole Depth (feet): 27' = 2.3'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): > 2.3	Measured Well DTW (in feet after water recharges in well): -	OVA (list model and check type): none ☐ FID ☐ PID		
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):					
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)					

Sample Type	Sample Depth Interval (ft)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-6	6					1	organic tan/brown soil and sand	SM	M	SB-03-01 (0-6")
HA	6-24						2	" " becomes light			
							3	limerock and sand.	SM	M	SB-03-02
							4				6"-2'
							5	light sandy limerock			
HA	24-27						6	becomes limerock layer.	SM	M	SB-03-03
							7	HA refusal @ 27"			24-27"
							8				
							9	Green			
							10				
							11				
							12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page 1 of 1

Boring/Well Number: SB- 04		Permit Number: none		FDEP Facility Identification Number: none							
Site Name: Carolina Club		Borehole Start Date: 01/02/2018	Borehole Start Time: 12:55	☐ AM ☒ PM							
		End Date: 01/02/2018	End Time: 14:05	☐ AM ☒ PM							
Environmental Contractor: WGI (Wantman Group, Inc)		Geologist's Name: Willi Lorentzen		Environmental Technician's Name: Jeremiah Marek							
Drilling Company: WGI		Pavement Thickness (inches): none	Borehole Diameter (inches): 3 inches	Borehole Depth (feet): 41							
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 4'	Measured Well DTW (in feet after water recharges in well): -	OVA (list model and check type): none ☐ FID ☐ PID								
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):											
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)											
Sample Type	Sample Depth Interval (ft)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-6	6					1	Organic soil w/ fine sand (brown)		D	SB-04-01 (0-6')
HA	6-24	18					2				
HA	24-41	17					3	Organic sandy soil (brown)		M	SB-04-02 6" - 2'
							4	becomes dark brown muck w/ minor fine sand @ 12"			
							5				
							6	Dark brown muck w/ fine sand. Some old		W	SB-04-03 2-4'
							7	wood / roots @ 4'			
							8				
							9	Water table @ 4'			
							10				
							11				
							12	Free			

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings

Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page 1 of 1

Boring/Well Number: SB- 05		Permit Number: none		FDEP Facility Identification Number: none							
Site Name: Carolina Club		Borehole Start Date: 01/02/2018	Borehole Start Time: 13:10	☐ AM ☒ PM							
		End Date: 01/02/2018	End Time: 13:20	☐ AM ☒ PM							
Environmental Contractor: WGI (Warriman Group, Inc)		Geologist's Name: Will Lorentzen		Environmental Technician's Name: Jeremiah Marek							
Drilling Company: WGI		Pavement Thickness (inches): none	Borehole Diameter (inches): 3 inches	Borehole Depth (feet): 3'							
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): > 3'	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type): none ☐ FID ☐ PID								
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):											
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)											
Sample Type	Sample Depth Interval (ft)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-6	6					1	organic brown soil 50%	SM	D	SB-05-01 (0-6") 0-6"
							2	fine-medium grained sand 50%			
HA	6-74	18					3	yellow sand w/ minor organic soil	SM	M	SB-05-02 6"-2'
							4				
							5	yellow sand w/ increasing			
HA	2-3' 12"						6	limerock pieces.	SM	M	SB-05-03 2-3'
							7	HA Refusal @ 3'			
							8				
							9				
							10	Fairway			
							11				
							12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page 1 of 1

Boring/Well Number: SB- 06		Permit Number: none		FDEP Facility Identification Number: none	
Site Name: Carolina Club		Borehole Start Date: 01/02/2018	Borehole Start Time: 13:30	☐ AM ☒ PM	
		End Date: 01/02/2018	End Time: 13:40	☐ AM ☒ PM	
Environmental Contractor: WGI (Wantman Group, Inc)		Geologist's Name: Will Lorentzen		Environmental Technician's Name: Jeremiah Marek	
Drilling Company: WGI		Pavement Thickness (inches): none	Borehole Diameter (inches): 3 inches	Borehole Depth (feet): 2	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): > 2'	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type): none ☐ FID ☐ PID		
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):					
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)					

Sample Type	Sample Depth Interval (ft)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-6	6					1	medium-coarse grain sand w/ brown organic soil	SM	D	SB-06-01 (0-6") 0-6"
HA	6-24	18					3	medium sand w/ limarock pieces		M	SB-06-02 6"-2'
							4				
							5	HA Refusal @ 24"			
							6				
							7				
							8				
							9				
							10	Green			
							11				
							12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page 1 of 1

Boring/Well Number: SB- 07		Permit Number: none		FDEP Facility Identification Number: none	
Site Name: Carolina Club		Borehole Start Date: 01/02/2018	Borehole Start Time: 14:00	AM ☒ PM ☒	
		End Date: 01/02/2018	End Time: 14:15	AM ☒ PM ☒	
Environmental Contractor: WGI (Wantman Group, Inc)		Geologist's Name: Will Lorentzen		Environmental Technician's Name: Jeremiah Marek	
Drilling Company: WGI		Pavement Thickness (inches): none	Borehole Diameter (inches): 3 inches	Borehole Depth (feet): 4.5'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content):	Measured Well DTW (in feet after water recharges in well):	OVA (list model and check type): none ☐ FID ☐ PID		
Disposition of Drill Cuttings (check method(s)): ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):					
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)					

Sample Type	Sample Depth Interval (ft)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-6	6					1	organic soil/medium sand w/ limrock pieces	SM	D	SB-07-01 (0-6") 0-6"
HA	6-24	18					2			M	SB-07-02 6"-2'
HA	24-48	24					3	organic soil & med w/ medium sand and limrock pieces			
HA							4				
HA							5	limrock pieces / crushed limrock sand		M	SB-07-03 2-4'
HA							6				
HA							7				
HA	48-54	6					8	limrock pieces and sand becomes impractical.		W	SB-07-04 4-4.5'
							9	HA refusal @ 54"		S	
							10				
							11				
							12	Teel			

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: SB-08		Permit Number: none		FDEP Facility Identification Number: none	
Site Name: Carolina Club		Borehole Start Date: 01/02/2018	Borehole Start Time: 14:45	AM	PM
		End Date: 01/02/2018	End Time: 14:55	AM	PM
Environmental Contractor: WGI (Wantman Group, Inc)		Geologist's Name: Will Lorenzen		Environmental Technician's Name: Jeremiah Marek	
Drilling Company: WGI		Pavement Thickness (inches): none	Borehole Diameter (inches): 3 inches	Borehole Depth (feet): 3.5'	
Drilling Method(s): HA	Apparent Borehole DTW (in feet from soil moisture content): 42"	Measured Well DTW (in feet after water recharges in well): 3.5'	OVA (list model and check type): none ☐ FID ☐ PID		
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):					
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)					

Sample Type	Sample Depth Interval (ft)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-6	6					1	Organic brown soil w/ fine sand	SM	D	SB-08-01 (0-6") 0-6"
HA	6-24	18					2	Crushed limerock sand/ pieces and some rocks	D	SB-08-02 6"-2	
						3					
						4					
HA	24-42	18					5	Brown muck w/ some limerock pieces w/ a tab at 42"	W	SB-08-03 2-3.5'	
						6					
						7					
							8	Fairway			
						9					
						10					
						11					
							12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page 1 of 1

Boring/Well Number: SB- 09		Permit Number: none		FDEP Facility Identification Number: none	
Site Name: Carolina Club		Borehole Start Date: 01/02/2018	Borehole Start Time: 15:20	AM ☒ PM ☒	
		End Date: 01/02/2018	End Time: 15:30	AM ☒ PM ☒	
Environmental Contractor: WGI (Wantman Group, Inc)		Geologist's Name: Will Lorentzen		Environmental Technician's Name: Jeremiah Marek	
Drilling Company: WGI		Pavement Thickness (inches): none	Borehole Diameter (inches): 3 inches	Borehole Depth (feet): 23' = 1.9'	
Drilling Method(s): HA		Apparent Borehole DTW (in feet from soil moisture content): 1.9	Measured Well DTW (in feet after water recharges in well): -	OVA (list model and check type): none ☐ FID ☐ PID	
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):					
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)					

Sample Type	Sample Depth Interval (ft)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
HA	0-6	6					1	Organic brown soil and medium sand, with minor limrock pieces	SM	M	SB-09-01 (0-6")
HA	6-23	17					2				
							3	organic brown soil, medium grain sand, and increasing volume of limrock pieces at depth.		M	SB-09-02
							4				6"-23"
							5				
							6				
							7	HA refusal @ 23"			
							8				
							9				
							10				
							11				
							12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

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Boring/Well Number: SB- 10		Permit Number: none		FDEP Facility Identification Number: none	
Site Name: Carolina Club		Borehole Start Date: 01/09/18	Borehole Start Time: 9:00	AM ☒ PM ☐	
		End Date: 01/09/18	End Time: 9:03	AM ☒ PM ☐	
Environmental Contractor: WGI (Wantman Group, Inc)		Geologist's Name: Will Lorentzen		Environmental Technician's Name: -	
Drilling Company: WGI		Pavement Thickness (inches): none	Borehole Diameter (inches): 3 1/4"	Borehole Depth (feet): 6	
Drilling Method(s): Direct Push		Apparent Borehole DTW (in feet from soil moisture content): ~4'	Measured Well DTW (in feet after water recharges in well): -	OVA (list model and check type): none ☐ FID ☐ PID	
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other					
(describe if other or multiple items are checked):					
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)					

Sample Type	Sample Depth Interval (ft)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-6 in.	6					1	sandy organic soil, brown medium-fine	SM	M	SB-10-01 0-6"
DP	6-24"	18					3	fine-medium sandy organic brown soil	SM	M	SB-10-02 6"-2'
DP	2'-4'	24					6	fine-medium sand, tan w/ minor organic soil	SM	M-W	SB-10-03 2-4'
DP	4-6'	24					8	limerock w/ minor sand.	W-S		SB-10-04 4-6'
							10	@ TMW-01			

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
 Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page 1 of 1

Boring/Well Number: SB- 11		Permit Number: none		FDEP Facility Identification Number: none	
Site Name: Carolina Club		Borehole Start Date: 01/09/18	Borehole Start Time: 10:00 AM ☒ PM ☐	End Date: 01/09/18	
Environmental Contractor: WGI (Wantman Group, Inc)		Geologist's Name: Will Lorentzen		Environmental Technician's Name: -	
Drilling Company: WGI		Pavement Thickness (inches): none	Borehole Diameter (inches): 3 1/4"	Borehole Depth (feet): 6	
Drilling Method(s): Direct Push		Apparent Borehole DTW (in feet from soil moisture content): 5.5'	Measured Well DTW (in feet after water recharges in well): -	OVA (list model and check type): none ☐ FID ☐ PID	
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):					
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)					

Sample Type	Sample Depth Interval (ft)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-6 in.	6					1	Brown organic soil w/ medium sand and minor limrock pieces	SM	M	SB-11-01 0-6"
DP	6-24"	18					2				
							3	fine-medium sand, tan, w/ minor limrock pieces	SM	M	SB-11-02 6"-2'
							4				
							5				
DP	2-4'	24					6	fine-medium sand, tan, with increasing marl at depth	SM	M	SB-11-03 2-4'
							7				
							8	marl, light tan, with limrock towards the deeper portion		M	
DP	4-6'	24					9			W	SB-11-04 4-6
							10				
							11	@ TMW-02			
							12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings

Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page 1 of 1

Boring/Well Number: SB- 12		Permit Number: none		FDEP Facility Identification Number: none							
Site Name: Carolina Club		Borehole Start Date: 01/09/18	Borehole Start Time: 10:45	☒ AM ☐ PM							
		End Date: 01/09/18	End Time: 10:48	☒ AM ☐ PM							
Environmental Contractor: WGI (Wantman Group, Inc)		Geologist's Name: Will Lorentzen		Environmental Technician's Name: -							
Drilling Company: WGI		Pavement Thickness (inches): none	Borehole Diameter (inches): 3 1/4"	Borehole Depth (feet): 6							
Drilling Method(s): Direct Push	Apparent Borehole DTW (in feet from soil moisture content): 4'	Measured Well DTW (in feet after water recharges in well): -	OVA (list model and check type): none ☐ FID ☐ PID								
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):											
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)											
Sample Type	Sample Depth Interval (ft)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	-Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-3 in.	6					1	Organic brown soil w/ fine sand 0-3"	SM	M	SB-12-01 0-6"
							2	limerock fill 3-6"			
DP	6-24	18					3	limerock fill 6-9"		M	SB-12-02 6"-2'
							4	organic brown soil w/ 40% fine sand 9-24"			
							5				
DP	2-4'	24					6	fine-medium tan sand w/ 30% organic soil w/ some roots	W	S	SB-12-03 2-4'
							7				
DP	4-6'	24					8	Sandy Marl 4'-4.75'	S		SB-12-04 4-6'
							9	becomes limerock 4.75'-6'			
							10				
							11				
							12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page 1 of 1

Boring/Well Number: SB- 13		Permit Number: none		FDEP Facility Identification Number: none							
Site Name: Carolina Club		Borehole Start Date: 01/09/18	Borehole Start Time: 11:20 AM	End Date: 01/09/18							
Environmental Contractor: WGI (Wantman Group, Inc)		Geologist's Name: Will Lorentzen		Environmental Technician's Name: -							
Drilling Company: WGI		Pavement Thickness (inches): none	Borehole Diameter (inches): 3 1/4"	Borehole Depth (feet): 6							
Drilling Method(s): Direct Push		Apparent Borehole DTW (in feet from soil moisture content): 3'	Measured Well DTW (in feet after water recharges in well): -	OVA (list model and check type): none ☐ FID ☐ PID							
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):											
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)											
Sample Type	Sample Depth Interval (ft)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-6 in.	6					1	fine-medium sand	SM	M	SB-13-01 0-6"
DP	6-24' 18						2	fine-medium grained sand		M	SB-13-02 6"-2'
DP	2-4' 24						3				
DP	2-4' 24						4	fine-medium sand, 2'-3'		W	SB-13-03 2-4
							5	limerock 3'-4'		S	
DP	4-6' 24						6	limerock 4-6'		S	SB-13-04 4-6'
							7				
							8				
							9				
							10	@ TMW-04			
							11				
							12				

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page 1 of 1

Boring/Well Number: SB- 14		Permit Number: none		FDEP Facility Identification Number: none	
Site Name: Carolina Club		Borehole Start Date: 01/09/18		Borehole Start Time: 11:50 AM ☒ PM ☐	
		End Date: 01/09/18		End Time: 11:55 AM ☒ PM ☐	
Environmental Contractor: WGI (Wantman Group, Inc)		Geologist's Name: Will Lorentzen		Environmental Technician's Name: -	
Drilling Company: WGI		Pavement Thickness (inches): none		Borehole Diameter (inches): 3 1/4"	
				Borehole Depth (feet): 6	
Drilling Method(s): Direct Push		Apparent Borehole DTW (in feet from soil moisture content): 4.5'		Measured Well DTW (in feet after water recharges in well): -	
				OVA (list model and check type): none ☐ FID ☐ PID	
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):					
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)					

Sample Type	Sample Depth Interval (ft)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-6 in.	6					1	Organic brown soil and limestone with fine sand. (0-3")	SM	M	SB-14-01 0-6"
							2	Sandy tan marl. (3-6")			
	6-24' 18						3	Sandy tan marl w/ minor limestone pieces		M	SB-14-02 6"-2'
							4				
	2'-4' 24						5	Sandy orange marl with 35% limestone		M W	SB-14-03 2-4'
							6				
	4'-6' 24						7	Sandy tan marl		W S	SB-14-04 4-6'
							8				
							9				
							10				
							11	Hole south of TMA-04			
							12	Fairway			

Sample Type Codes: PH = Post Hole; HAA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings

Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

BORING LOG

Page 1 of 1

Boring/Well Number: SB- 15		Permit Number: none		FDEP Facility Identification Number: none							
Site Name: Carolina Club		Borehole Start Date: 01/09/18	Borehole Start Time: 12:30	AM	PM						
		End Date: 01/09/18	End Time: 12:35	AM	PM						
Environmental Contractor: WGI (Wantman Group, Inc)		Geologist's Name: Will Lorentzen		Environmental Technician's Name:							
Drilling Company: WGI		Pavement Thickness (inches): none	Borehole Diameter (inches): 3 1/4"	Borehole Depth (feet): 6							
Drilling Method(s): Direct Push	Apparent Borehole DTW (in feet from soil moisture content): 4'	Measured Well DTW (in feet after water recharges in well): -	OVA (list model and check type): none ☐ FID ☐ PID								
Disposition of Drill Cuttings [check method(s)]: ☐ Drum ☐ Spread ☒ Backfill ☐ Stockpile ☐ Other (describe if other or multiple items are checked):											
Borehole Completion (check one): ☐ Well ☐ Grout ☐ Bentonite ☒ Backfill ☐ Other (describe)											
Sample Type	Sample Depth Interval (ft)	Sample Recovery (inches)	SPT Blows (per six inches)	Unfiltered OVA	Filtered OVA	Net OVA	Depth (feet)	Sample Description (include grain size based on USCS, odors, staining, and other remarks)	USCS Symbol	Moisture Content	Lab Soil and Groundwater Samples (list sample number and depth or temporary screen interval)
DP	0-6 in.	6					1	Organic brown soils w/ 30% fine sand	SM	D	SB-15-01 0-6"
DP	6-24'	18					2	silty tan marl with limerock pieces	M	SB-15-02 6"-2'	
						3					
						4					
DP	2-4'	24					5	limerock with fine-medium light sand	M	SB-15-03 2-4'	
						6					
DP	4-6'	24					7	limerock with fine-medium light sand	S	SB-15-04 4-6'	
						8					
						9					
							10	North west of TMW-04 (or sample 1-3)			
						11					
						12					

Sample Type Codes: PH = Post Hole; HA = Hand Auger; SS = Split Spoon; ST = Shelby Tube; DP = Direct Push; SC = Sonic Core; DC = Drill Cuttings
Moisture Content Codes: D = Dry; M = Moist; W = Wet; S = Saturated

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Carolina Club		SITE LOCATION:	
WELL NO: TMW-01	SAMPLE ID:		DATE: 1/11/18

PURGING DATA

[illegible]

SAMPLING DATA

[illegible]

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

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

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

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DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Carolina Club		SITE LOCATION:	
WELL NO: TWD-03	SAMPLE ID:		DATE: 11/11/11

PURGING DATA

[illegible]

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Will Lorentzen / WGEF				SAMPLER(S) SIGNATURE(S): <i>[Signature]</i>			SAMPLING INITIATED AT: 16:35		SAMPLING ENDED AT: 17:07	
PUMP OR TUBING DEPTH IN WELL (feet): 6.25				TUBING MATERIAL CODE: HDPE		FIELD-FILTERED: Y ☒ N ☐ Filtration Equipment Type:		FILTER SIZE: _____ µm		
FIELD DECONTAMINATION: PUMP Y ☒ N ☐ TUBING Y ☐ N ☒ (replaced)						DUPLICATE: Y ☐ N ☒				
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
	1	HDPE	250 mL	HNO ₃	-	-	As CO ₂	APP	500	
	1	AG	1 L	none	-	-	Dieldrin	APP	500	
REMARKS:										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; RPPP = Reverse Flow Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)										

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

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

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

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: 11-10-10		SITE LOCATION:	
WELL NO: 11-10-10	SAMPLE ID:		DATE: 1/11/18

PURGING DATA

[illegible]

SAMPLING DATA

[illegible]

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

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

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

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: TMW- 01		Site Name: Carolina Club		FDEP Facility I.D. Number:	
Well Location and Type (check appropriate boxes): ☒ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☒ Above Grade (AG) ☐ Flush-to-Grade		Well Purpose: ☒ Perched Monitoring ☒ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)		Well Install Date(s): 01/09-2018	
If AG, list feet of riser above land surface: 2'				Well Install Method: Direct Push	
Borehole Depth (feet): 13'		Well Depth (feet): 13' b/s	Borehole Diameter (inches): 3/4"	Manhole Diameter (inches): -	Well Pad Size: ____ feet by ____ feet
Riser Diameter and Material: 1" PVC		Riser/Screen Connections: ☒ Flush-Threaded ☒ Other (describe)	Riser Length: 5 feet from 3 feet to -2 feet b/s		
Screen Diameter and Material: 1" PVC		Screen Slot Size: 0.010"		Screen Length: 10 feet from 13 feet to 3 feet b/s	
1 st Surface Casing Material: also check: ☐ Permanent ☐ Temporary		1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: ____ feet from 0 feet to ____ feet	
2 nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary		2 nd Surface Casing I.D. (inches):		2 nd Surface Casing Length: ____ feet from 0 feet to ____ feet	
3 rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary		3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: ____ feet from 0 feet to ____ feet	
Filter Pack Material and Size: 20/30 sand		Prepacked Filter Around Screen (check one): ☒ Yes ☐ No		Filter Pack Length: ____ feet from ____ feet to ____ feet	
Filter Pack Seal Material and Size: native soils				Filter Pack Seal Length: ____ feet from ____ feet to ____ feet	
Surface Seal Material: native soils				Surface Seal Length: ____ feet from ____ feet to ____ feet	

WELL DEVELOPMENT DATA			
Well Development Date: 1/9/2018		Well Development Method (check one): ☐ Surge/Pump ☒ Pump ☐ Compressed Air ☐ Other (describe)	
Development Pump Type (check): ☐ Centrifugal ☒ Peristaltic ☐ Submersible ☐ Other (describe)		Depth to Groundwater (before developing in feet): -	
Pumping Rate (gallons per minute): 1 gallon / 4 minutes	Maximum Drawdown of Groundwater During Development (feet): -		Well Purged Dry (check one): ☐ Yes ☒ No
Pumping Condition (check one): ☒ Continuous ☐ Intermittent	Total Development Water Removed (gallons): 8	Development Duration (minutes): 32	Development Water Drummed (check one): ☒ Yes ☐ No
Water Appearance (color and odor) At Start of Development: white/fan and cloudy. No odor		Water Appearance (color and odor) At End of Development: cloudy. no odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA				
Well Number: TMW- 02	Site Name: Carolina Club		FDEP Facility I.D. Number:	Well Install Date(s): 01/09-2018
Well Location and Type (check appropriate boxes): ☒ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☒ Above Grade (AG) ☐ Flush-to-Grade		Well Purpose: ☒ Perched Monitoring ☒ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)		Well Install Method: Direct Push
If AG, list feet of riser above land surface: 2'				Surface Casing Install Method: Pneum.
Borehole Depth (feet): 13'	Well Depth ^{15'} (feet): 13' 4 1/2"	Borehole Diameter (inches): 3 1/4"	Manhole Diameter (inches): -	Well Pad Size: _____ feet by _____ feet
Riser Diameter and Material: 1" PVC	Riser/Screen Connections: ☒ Flush-T Threaded ☐ Other (describe)	Riser Length: 5 feet from 2 feet to 7 feet		
Screen Diameter and Material: 1" PVC	Screen Slot Size: 0.010"	Screen Length: 10 feet from 13 feet to 2 feet		
1 st Surface Casing Material: also check: ☐ Permanent ☐ Temporary	1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from 0 feet to _____ feet		
2 nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from 0 feet to _____ feet		
3 rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from 0 feet to _____ feet		
Filter Pack Material and Size: 20/30 sand	Prepacked Filter Around Screen (check one): ☒ Yes ☐ No	Filter Pack Length: _____ feet from _____ feet to _____ feet		
Filter Pack Seal Material and Size: native soils		Filter Pack Seal Length: _____ feet from _____ feet to _____ feet		
Surface Seal Material: native soil		Surface Seal Length: _____ feet from _____ feet to _____ feet		

WELL DEVELOPMENT DATA			
Well Development Date: 1/9/2018	Well Development Method (check one): ☐ Surge/Pump ☒ Pump ☐ Compressed Air ☐ Other (describe)		
Development Pump Type (check): ☐ Centrifugal ☒ Peristaltic ☐ Submersible ☐ Other (describe)	Depth to Groundwater (before developing in feet): -		
Pumping Rate (gallons per minute): ~1 gallon 4 pulses	Maximum Drawdown of Groundwater During Development (feet): -	Well Purged Dry (check one): ☐ Yes ☒ No	
Pumping Condition (check one): ☒ Continuous ☐ Intermittent	Total Development Water Removed (gallons): 15	Development Duration (minutes): 60	Development Water Drummed (check one): ☒ Yes ☐ No
Water Appearance (color and odor) At Start of Development: Tan & cloudy light sulfur		Water Appearance (color and odor) At End of Development: clear light sulfur	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA					
Well Number: TMW- 03		Site Name: Carolina Club		FDEP Facility I.D. Number:	
Well Location and Type (check appropriate boxes): ☒ On-Site ☒ Right-of-Way ☐ Off-Site Private Property ☒ Above Grade (AG) ☐ Flush-to-Grade		Well Purpose: ☒ Perched Monitoring ☒ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)		Well Install Date(s): 01/09-2018	
If AG, list feet of riser above land surface: 2'				Well Install Method: Direct Push	
Borehole Depth (feet): 13'		Well Depth (feet): 13' 6"		Borehole Diameter (inches): 3 1/4"	
Manhole Diameter (inches): -		Well Pad Size: _____ feet by _____ feet			
Riser Diameter and Material: 1" PVC		Riser/Screen Connections: ☒ Flush-T Threaded ☐ Other (describe)		Riser Length: 5 feet from 3 feet to -2 feet bls	
Screen Diameter and Material: 1" PVC		Screen Slot Size: 0.010"		Screen Length: 10 feet from 13 feet to 3 feet bls	
1 st Surface Casing Material: also check: ☐ Permanent ☐ Temporary		1 st Surface Casing I.D. (inches):		1 st Surface Casing Length: _____ feet from 0 feet to _____ feet	
2 nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary		2 nd Surface Casing I.D. (inches):		2 nd Surface Casing Length: _____ feet from 0 feet to _____ feet	
3 rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary		3 rd Surface Casing I.D. (inches):		3 rd Surface Casing Length: _____ feet from 0 feet to _____ feet	
Filter Pack Material and Size: 20/30 sand		Prepacked Filter Around Screen (check one): ☒ Yes ☐ No		Filter Pack Length: _____ feet from _____ feet to _____ feet	
Filter Pack Seal Material and Size: native soils				Filter Pack Seal Length: _____ feet from _____ feet to _____ feet	
Surface Seal Material: native soil				Surface Seal Length: _____ feet from _____ feet to _____ feet	

WELL DEVELOPMENT DATA			
Well Development Date: 1/9/2012		Well Development Method (check one): ☐ Surge/Pump ☒ Pump ☐ Compressed Air ☐ Other (describe)	
Development Pump Type (check): ☐ Centrifugal ☒ Peristaltic ☐ Submersible ☐ Other (describe)		Depth to Groundwater (before developing in feet): -	
Pumping Rate (gallons per minute): ~1 gallon / 4 minutes		Maximum Drawdown of Groundwater During Development (feet): -	
Pumping Condition (check one): ☒ Continuous ☐ Intermittent		Well Purged Dry (check one): ☐ Yes ☒ No	
Total Development Water Removed (gallons): 15		Development Duration (minutes): 60	
Development Water Drummed (check one): ☒ Yes ☐ No			
Water Appearance (color and odor) At Start of Development: tan & cloudy no odor		Water Appearance (color and odor) At End of Development: clear	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

WELL CONSTRUCTION AND DEVELOPMENT LOG

WELL CONSTRUCTION DATA				
Well Number: TMW- 04	Site Name: Carolina Club		FDEP Facility I.D. Number:	Well Install Date(s): 01/09-2018
Well Location and Type (check appropriate boxes): ☒ On-Site ☐ Right-of-Way ☐ Off-Site Private Property ☒ Above Grade (AG) ☐ Flush-to-Grade		Well Purpose: ☐ Perched Monitoring ☒ Shallow (Water-Table) Monitoring ☐ Intermediate or Deep Monitoring ☐ Remediation or Other (describe)		Well Install Method: Direct Push
If AG, list feet of riser above land surface: 2'		Surface Casing Install Method: None		
Borehole Depth (feet): 13'	Well Depth ^{5' 0"} (feet): 13' 6 1/2"	Borehole Diameter (inches): 3 1/4"	Manhole Diameter (inches): —	Well Pad Size: _____ feet by _____ feet
Riser Diameter and Material: 1" PVC	Riser/Screen Connections: ☒ Flush-Threaded ☐ Other (describe)	Riser Length: 5 feet from _____ feet to -2 feet b/s		
Screen Diameter and Material: 1" PVC	Screen Slot Size: 0.010"	Screen Length: 10 feet from 13 feet to 3 feet b/e		
1 st Surface Casing Material: also check: ☐ Permanent ☐ Temporary	1 st Surface Casing I.D. (inches):	1 st Surface Casing Length: _____ feet from 0 feet to _____ feet		
2 nd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	2 nd Surface Casing I.D. (inches):	2 nd Surface Casing Length: _____ feet from 0 feet to _____ feet		
3 rd Surface Casing Material: also check: ☐ Permanent ☐ Temporary	3 rd Surface Casing I.D. (inches):	3 rd Surface Casing Length: _____ feet from 0 feet to _____ feet		
Filter Pack Material and Size: 20/30 sand	Prepacked Filter Around Screen (check one): ☒ Yes ☐ No	Filter Pack Length: _____ feet from _____ feet to _____ feet		
Filter Pack Seal Material and Size: native soils		Filter Pack Seal Length: _____ feet from _____ feet to _____ feet		
Surface Seal Material: native soils		Surface Seal Length: _____ feet from _____ feet to _____ feet		

WELL DEVELOPMENT DATA			
Well Development Date: 1/9/2018	Well Development Method (check one): ☐ Surge/Pump ☒ Pump ☐ Compressed Air ☐ Other (describe)		
Development/Pump Type (check): ☐ Centrifugal ☒ Peristaltic ☐ Submersible ☐ Other (describe)	Depth to Groundwater (before developing in feet): —		
Pumping Rate (gallons per minute): 1 gallon / 4 minutes	Maximum Drawdown of Groundwater During Development (feet): —	Well Purged Dry (check one): ☐ Yes ☒ No	
Pumping Condition (check one): ☒ Continuous ☐ Intermittent	Total Development Water Removed (gallons): 15	Development Duration (minutes): 60	Development Water Drummed (check one): ☒ Yes ☐ No
Water Appearance (color and odor) At Start of Development: cloudy no odor		Water Appearance (color and odor) At End of Development: clear no odor	

WELL CONSTRUCTION OR DEVELOPMENT REMARKS

APPENDIX B

Analytical Laboratory Reports with Chains-of-Custody

January 11, 2018

John Abbott
Wantman Group
2035 Vista Parkway
West Palm Beach, FL 33411

RE: Project: 2995.00 /Carolina Club
Pace Project No.: 35365919

Dear John Abbott:

Enclosed are the analytical results for sample(s) received by the laboratory on January 02, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC 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,



Christina Raschke
christina.raschke@pacelabs.com
(954)582-4300
Project Manager

Enclosures

cc: William Lorentzen, Wantman Group



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2995.00 /Carolina Club

Pace Project No.: 35365919

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
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

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
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
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2995.00 /Carolina Club

Pace Project No.: 35365919

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35365919001	SB-01-01	Solid	01/02/18 12:15	01/02/18 17:00
35365919002	SB-01-02	Solid	01/02/18 12:20	01/02/18 17:00
35365919003	SB-02-01	Solid	01/02/18 12:32	01/02/18 17:00
35365919004	SB-02-02	Solid	01/02/18 12:35	01/02/18 17:00
35365919005	SB-03-01	Solid	01/02/18 12:48	01/02/18 17:00
35365919006	SB-03-02	Solid	01/02/18 12:52	01/02/18 17:00
35365919007	SB-03-03	Solid	01/02/18 12:55	01/02/18 17:00

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SAMPLE ANALYTE COUNT

Project: 2995.00 /Carolina Club

Pace Project No.: 35365919

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35365919001	SB-01-01	EPA 8081	BP1	22	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365919002	SB-01-02	EPA 8081	BP1	22	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365919003	SB-02-01	EPA 8081	BP1	22	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365919004	SB-02-02	EPA 8081	BP1	22	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365919005	SB-03-01	EPA 8081	BP1	22	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365919006	SB-03-02	EPA 8081	BP1	22	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365919007	SB-03-03	EPA 8081	BP1	22	PASI-O
		ASTM D2974-87	CS2	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 2995.00 /Carolina Club

Pace Project No.: 35365919

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35365919001	SB-01-01					
ASTM D2974-87	Percent Moisture	17.2	%	0.10	01/04/18 15:53	
35365919002	SB-01-02					
ASTM D2974-87	Percent Moisture	11.8	%	0.10	01/04/18 15:53	
35365919003	SB-02-01					
ASTM D2974-87	Percent Moisture	15.2	%	0.10	01/04/18 15:53	
35365919004	SB-02-02					
EPA 8081	4,4'-DDE	0.0021	mg/kg	0.0019	01/10/18 10:14	
EPA 8081	4,4'-DDT	0.00052 I	mg/kg	0.0019	01/10/18 23:24	
ASTM D2974-87	Percent Moisture	10.2	%	0.10	01/04/18 15:53	
35365919005	SB-03-01					
ASTM D2974-87	Percent Moisture	18.4	%	0.10	01/04/18 15:53	J(D6)
35365919006	SB-03-02					
EPA 8081	Chlordane (Technical)	0.047	mg/kg	0.019	01/10/18 10:52	
EPA 8081	Heptachlor epoxide	0.0010 I	mg/kg	0.0019	01/10/18 10:52	
ASTM D2974-87	Percent Moisture	10.8	%	0.10	01/04/18 15:54	
35365919007	SB-03-03					
EPA 8081	Heptachlor epoxide	0.00022 I	mg/kg	0.0019	01/10/18 11:12	
ASTM D2974-87	Percent Moisture	12.4	%	0.10	01/04/18 15:54	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2995.00 /Carolina Club

Pace Project No.: 35365919

Sample: SB-01-01 **Lab ID: 35365919001** Collected: 01/02/18 12:15 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides Analytical Method: EPA 8081 Preparation Method: EPA 3546									
Aldrin	0.000070 U	mg/kg	0.0021	0.000070	1	01/09/18 09:25	01/10/18 09:17	309-00-2	
alpha-BHC	0.000084 U	mg/kg	0.0021	0.000084	1	01/09/18 09:25	01/10/18 09:17	319-84-6	
beta-BHC	0.000093 U	mg/kg	0.0021	0.000093	1	01/09/18 09:25	01/10/18 09:17	319-85-7	
delta-BHC	0.00011 U	mg/kg	0.0021	0.00011	1	01/09/18 09:25	01/10/18 09:17	319-86-8	
gamma-BHC (Lindane)	0.00018 U	mg/kg	0.0021	0.00018	1	01/09/18 09:25	01/10/18 09:17	58-89-9	
Chlordane (Technical)	0.019 U	mg/kg	0.021	0.019	1	01/09/18 09:25	01/10/18 09:17	57-74-9	
4,4'-DDD	0.00016 U	mg/kg	0.0021	0.00016	1	01/09/18 09:25	01/10/18 09:17	72-54-8	
4,4'-DDE	0.000074 U	mg/kg	0.0021	0.000074	1	01/09/18 09:25	01/10/18 09:17	72-55-9	
4,4'-DDT	0.00012 U	mg/kg	0.0021	0.00012	1	01/09/18 09:25	01/10/18 22:17	50-29-3	
Dieldrin	0.000049 U	mg/kg	0.0021	0.000049	1	01/09/18 09:25	01/10/18 09:17	60-57-1	
Endosulfan I	0.000030 U	mg/kg	0.0021	0.000030	1	01/09/18 09:25	01/10/18 09:17	959-98-8	
Endosulfan II	0.000069 U	mg/kg	0.0021	0.000069	1	01/09/18 09:25	01/10/18 09:17	33213-65-9	
Endosulfan sulfate	0.000052 U	mg/kg	0.0021	0.000052	1	01/09/18 09:25	01/10/18 09:17	1031-07-8	
Endrin	0.000063 U	mg/kg	0.0021	0.000063	1	01/09/18 09:25	01/10/18 09:17	72-20-8	
Endrin aldehyde	0.000080 U	mg/kg	0.0040	0.000080	1	01/09/18 09:25	01/10/18 09:17	7421-93-4	
Endrin ketone	0.000097 U	mg/kg	0.0021	0.000097	1	01/09/18 09:25	01/10/18 09:17	53494-70-5	
Heptachlor	0.000047 U	mg/kg	0.0021	0.000047	1	01/09/18 09:25	01/10/18 09:17	76-44-8	
Heptachlor epoxide	0.00013 U	mg/kg	0.0021	0.00013	1	01/09/18 09:25	01/10/18 09:17	1024-57-3	
Methoxychlor	0.0013 U	mg/kg	0.0021	0.0013	1	01/09/18 09:25	01/10/18 09:17	72-43-5	
Toxaphene	0.0089 U	mg/kg	0.021	0.0089	1	01/09/18 09:25	01/10/18 09:17	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	95	%	53-140		1	01/09/18 09:25	01/10/18 09:17	877-09-8	
Decachlorobiphenyl (S)	85	%	43-157		1	01/09/18 09:25	01/10/18 09:17	2051-24-3	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	17.2	%	0.10	0.10	1		01/04/18 15:53		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2995.00 /Carolina Club

Pace Project No.: 35365919

Sample: SB-01-02 **Lab ID: 35365919002** Collected: 01/02/18 12:20 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides Analytical Method: EPA 8081 Preparation Method: EPA 3546									
Aldrin	0.000065 U	mg/kg	0.0019	0.000065	1	01/09/18 09:25	01/10/18 09:36	309-00-2	
alpha-BHC	0.000078 U	mg/kg	0.0019	0.000078	1	01/09/18 09:25	01/10/18 09:36	319-84-6	
beta-BHC	0.000087 U	mg/kg	0.0019	0.000087	1	01/09/18 09:25	01/10/18 09:36	319-85-7	
delta-BHC	0.000098 U	mg/kg	0.0019	0.000098	1	01/09/18 09:25	01/10/18 09:36	319-86-8	
gamma-BHC (Lindane)	0.00017 U	mg/kg	0.0019	0.00017	1	01/09/18 09:25	01/10/18 09:36	58-89-9	
Chlordane (Technical)	0.018 U	mg/kg	0.019	0.018	1	01/09/18 09:25	01/10/18 09:36	57-74-9	
4,4'-DDD	0.00015 U	mg/kg	0.0019	0.00015	1	01/09/18 09:25	01/10/18 09:36	72-54-8	
4,4'-DDE	0.000069 U	mg/kg	0.0019	0.000069	1	01/09/18 09:25	01/10/18 09:36	72-55-9	
4,4'-DDT	0.00011 U	mg/kg	0.0019	0.00011	1	01/09/18 09:25	01/10/18 22:40	50-29-3	
Dieldrin	0.000045 U	mg/kg	0.0019	0.000045	1	01/09/18 09:25	01/10/18 09:36	60-57-1	
Endosulfan I	0.000028 U	mg/kg	0.0019	0.000028	1	01/09/18 09:25	01/10/18 09:36	959-98-8	
Endosulfan II	0.000064 U	mg/kg	0.0019	0.000064	1	01/09/18 09:25	01/10/18 09:36	33213-65-9	
Endosulfan sulfate	0.000049 U	mg/kg	0.0019	0.000049	1	01/09/18 09:25	01/10/18 09:36	1031-07-8	
Endrin	0.000059 U	mg/kg	0.0019	0.000059	1	01/09/18 09:25	01/10/18 09:36	72-20-8	
Endrin aldehyde	0.000074 U	mg/kg	0.0037	0.000074	1	01/09/18 09:25	01/10/18 09:36	7421-93-4	
Endrin ketone	0.000090 U	mg/kg	0.0019	0.000090	1	01/09/18 09:25	01/10/18 09:36	53494-70-5	
Heptachlor	0.000044 U	mg/kg	0.0019	0.000044	1	01/09/18 09:25	01/10/18 09:36	76-44-8	
Heptachlor epoxide	0.00013 U	mg/kg	0.0019	0.00013	1	01/09/18 09:25	01/10/18 09:36	1024-57-3	
Methoxychlor	0.0012 U	mg/kg	0.0019	0.0012	1	01/09/18 09:25	01/10/18 09:36	72-43-5	
Toxaphene	0.0083 U	mg/kg	0.019	0.0083	1	01/09/18 09:25	01/10/18 09:36	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	80	%	53-140		1	01/09/18 09:25	01/10/18 09:36	877-09-8	
Decachlorobiphenyl (S)	73	%	43-157		1	01/09/18 09:25	01/10/18 09:36	2051-24-3	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	11.8	%	0.10	0.10	1		01/04/18 15:53		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2995.00 /Carolina Club

Pace Project No.: 35365919

Sample: SB-02-01 **Lab ID: 35365919003** Collected: 01/02/18 12:32 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides Analytical Method: EPA 8081 Preparation Method: EPA 3546									
Aldrin	0.000069 U	mg/kg	0.0020	0.000069	1	01/09/18 09:25	01/10/18 09:55	309-00-2	
alpha-BHC	0.000082 U	mg/kg	0.0020	0.000082	1	01/09/18 09:25	01/10/18 09:55	319-84-6	
beta-BHC	0.000092 U	mg/kg	0.0020	0.000092	1	01/09/18 09:25	01/10/18 09:55	319-85-7	
delta-BHC	0.00010 U	mg/kg	0.0020	0.00010	1	01/09/18 09:25	01/10/18 09:55	319-86-8	
gamma-BHC (Lindane)	0.00018 U	mg/kg	0.0020	0.00018	1	01/09/18 09:25	01/10/18 09:55	58-89-9	
Chlordane (Technical)	0.019 U	mg/kg	0.020	0.019	1	01/09/18 09:25	01/10/18 09:55	57-74-9	
4,4'-DDD	0.00016 U	mg/kg	0.0020	0.00016	1	01/09/18 09:25	01/10/18 09:55	72-54-8	
4,4'-DDE	0.000072 U	mg/kg	0.0020	0.000072	1	01/09/18 09:25	01/10/18 09:55	72-55-9	
4,4'-DDT	0.00011 U	mg/kg	0.0020	0.00011	1	01/09/18 09:25	01/10/18 23:02	50-29-3	
Dieldrin	0.000048 U	mg/kg	0.0020	0.000048	1	01/09/18 09:25	01/10/18 09:55	60-57-1	
Endosulfan I	0.000030 U	mg/kg	0.0020	0.000030	1	01/09/18 09:25	01/10/18 09:55	959-98-8	
Endosulfan II	0.000068 U	mg/kg	0.0020	0.000068	1	01/09/18 09:25	01/10/18 09:55	33213-65-9	
Endosulfan sulfate	0.000051 U	mg/kg	0.0020	0.000051	1	01/09/18 09:25	01/10/18 09:55	1031-07-8	
Endrin	0.000062 U	mg/kg	0.0020	0.000062	1	01/09/18 09:25	01/10/18 09:55	72-20-8	
Endrin aldehyde	0.000078 U	mg/kg	0.0039	0.000078	1	01/09/18 09:25	01/10/18 09:55	7421-93-4	
Endrin ketone	0.000095 U	mg/kg	0.0020	0.000095	1	01/09/18 09:25	01/10/18 09:55	53494-70-5	
Heptachlor	0.000046 U	mg/kg	0.0020	0.000046	1	01/09/18 09:25	01/10/18 09:55	76-44-8	
Heptachlor epoxide	0.00013 U	mg/kg	0.0020	0.00013	1	01/09/18 09:25	01/10/18 09:55	1024-57-3	
Methoxychlor	0.0012 U	mg/kg	0.0020	0.0012	1	01/09/18 09:25	01/10/18 09:55	72-43-5	
Toxaphene	0.0087 U	mg/kg	0.020	0.0087	1	01/09/18 09:25	01/10/18 09:55	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	85	%	53-140		1	01/09/18 09:25	01/10/18 09:55	877-09-8	
Decachlorobiphenyl (S)	83	%	43-157		1	01/09/18 09:25	01/10/18 09:55	2051-24-3	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	15.2	%	0.10	0.10	1		01/04/18 15:53		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2995.00 /Carolina Club
Pace Project No.: 35365919

Sample: SB-02-02 **Lab ID: 35365919004** Collected: 01/02/18 12:35 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides Analytical Method: EPA 8081 Preparation Method: EPA 3546									
Aldrin	0.000065 U	mg/kg	0.0019	0.000065	1	01/09/18 09:25	01/10/18 10:14	309-00-2	
alpha-BHC	0.000077 U	mg/kg	0.0019	0.000077	1	01/09/18 09:25	01/10/18 10:14	319-84-6	
beta-BHC	0.000086 U	mg/kg	0.0019	0.000086	1	01/09/18 09:25	01/10/18 10:14	319-85-7	
delta-BHC	0.000097 U	mg/kg	0.0019	0.000097	1	01/09/18 09:25	01/10/18 10:14	319-86-8	
gamma-BHC (Lindane)	0.00016 U	mg/kg	0.0019	0.00016	1	01/09/18 09:25	01/10/18 10:14	58-89-9	
Chlordane (Technical)	0.018 U	mg/kg	0.019	0.018	1	01/09/18 09:25	01/10/18 10:14	57-74-9	
4,4'-DDD	0.00015 U	mg/kg	0.0019	0.00015	1	01/09/18 09:25	01/10/18 10:14	72-54-8	
4,4'-DDE	0.0021	mg/kg	0.0019	0.000068	1	01/09/18 09:25	01/10/18 10:14	72-55-9	
4,4'-DDT	0.00052 I	mg/kg	0.0019	0.00011	1	01/09/18 09:25	01/10/18 23:24	50-29-3	
Dieldrin	0.000045 U	mg/kg	0.0019	0.000045	1	01/09/18 09:25	01/10/18 10:14	60-57-1	
Endosulfan I	0.000028 U	mg/kg	0.0019	0.000028	1	01/09/18 09:25	01/10/18 10:14	959-98-8	
Endosulfan II	0.000064 U	mg/kg	0.0019	0.000064	1	01/09/18 09:25	01/10/18 10:14	33213-65-9	
Endosulfan sulfate	0.000048 U	mg/kg	0.0019	0.000048	1	01/09/18 09:25	01/10/18 10:14	1031-07-8	
Endrin	0.000058 U	mg/kg	0.0019	0.000058	1	01/09/18 09:25	01/10/18 10:14	72-20-8	
Endrin aldehyde	0.000074 U	mg/kg	0.0037	0.000074	1	01/09/18 09:25	01/10/18 10:14	7421-93-4	
Endrin ketone	0.000089 U	mg/kg	0.0019	0.000089	1	01/09/18 09:25	01/10/18 10:14	53494-70-5	
Heptachlor	0.000043 U	mg/kg	0.0019	0.000043	1	01/09/18 09:25	01/10/18 10:14	76-44-8	
Heptachlor epoxide	0.00012 U	mg/kg	0.0019	0.00012	1	01/09/18 09:25	01/10/18 10:14	1024-57-3	
Methoxychlor	0.0012 U	mg/kg	0.0019	0.0012	1	01/09/18 09:25	01/10/18 10:14	72-43-5	
Toxaphene	0.0082 U	mg/kg	0.019	0.0082	1	01/09/18 09:25	01/10/18 10:14	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	91	%	53-140		1	01/09/18 09:25	01/10/18 10:14	877-09-8	
Decachlorobiphenyl (S)	92	%	43-157		1	01/09/18 09:25	01/10/18 10:14	2051-24-3	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	10.2	%	0.10	0.10	1		01/04/18 15:53		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2995.00 /Carolina Club

Pace Project No.: 35365919

Sample: SB-03-01 **Lab ID: 35365919005** Collected: 01/02/18 12:48 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides Analytical Method: EPA 8081 Preparation Method: EPA 3546									
Aldrin	0.000071 U	mg/kg	0.0021	0.000071	1	01/09/18 09:25	01/10/18 10:33	309-00-2	
alpha-BHC	0.000085 U	mg/kg	0.0021	0.000085	1	01/09/18 09:25	01/10/18 10:33	319-84-6	
beta-BHC	0.000095 U	mg/kg	0.0021	0.000095	1	01/09/18 09:25	01/10/18 10:33	319-85-7	
delta-BHC	0.00011 U	mg/kg	0.0021	0.00011	1	01/09/18 09:25	01/10/18 10:33	319-86-8	
gamma-BHC (Lindane)	0.00018 U	mg/kg	0.0021	0.00018	1	01/09/18 09:25	01/10/18 10:33	58-89-9	
Chlordane (Technical)	0.019 U	mg/kg	0.021	0.019	1	01/09/18 09:25	01/10/18 10:33	57-74-9	
4,4'-DDD	0.00016 U	mg/kg	0.0021	0.00016	1	01/09/18 09:25	01/10/18 10:33	72-54-8	
4,4'-DDE	0.000075 U	mg/kg	0.0021	0.000075	1	01/09/18 09:25	01/10/18 10:33	72-55-9	
4,4'-DDT	0.00012 U	mg/kg	0.0021	0.00012	1	01/09/18 09:25	01/10/18 23:46	50-29-3	
Dieldrin	0.000049 U	mg/kg	0.0021	0.000049	1	01/09/18 09:25	01/10/18 10:33	60-57-1	
Endosulfan I	0.000031 U	mg/kg	0.0021	0.000031	1	01/09/18 09:25	01/10/18 10:33	959-98-8	
Endosulfan II	0.000070 U	mg/kg	0.0021	0.000070	1	01/09/18 09:25	01/10/18 10:33	33213-65-9	
Endosulfan sulfate	0.000053 U	mg/kg	0.0021	0.000053	1	01/09/18 09:25	01/10/18 10:33	1031-07-8	
Endrin	0.000064 U	mg/kg	0.0021	0.000064	1	01/09/18 09:25	01/10/18 10:33	72-20-8	
Endrin aldehyde	0.000081 U	mg/kg	0.0041	0.000081	1	01/09/18 09:25	01/10/18 10:33	7421-93-4	
Endrin ketone	0.000098 U	mg/kg	0.0021	0.000098	1	01/09/18 09:25	01/10/18 10:33	53494-70-5	
Heptachlor	0.000048 U	mg/kg	0.0021	0.000048	1	01/09/18 09:25	01/10/18 10:33	76-44-8	
Heptachlor epoxide	0.00014 U	mg/kg	0.0021	0.00014	1	01/09/18 09:25	01/10/18 10:33	1024-57-3	
Methoxychlor	0.0013 U	mg/kg	0.0021	0.0013	1	01/09/18 09:25	01/10/18 10:33	72-43-5	
Toxaphene	0.0090 U	mg/kg	0.021	0.0090	1	01/09/18 09:25	01/10/18 10:33	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	53-140		1	01/09/18 09:25	01/10/18 10:33	877-09-8	
Decachlorobiphenyl (S)	118	%	43-157		1	01/09/18 09:25	01/10/18 10:33	2051-24-3	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	18.4	%	0.10	0.10	1		01/04/18 15:53		J(D6)

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2995.00 /Carolina Club

Pace Project No.: 35365919

Sample: SB-03-02 **Lab ID: 35365919006** Collected: 01/02/18 12:52 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides Analytical Method: EPA 8081 Preparation Method: EPA 3546									
Aldrin	0.000065 U	mg/kg	0.0019	0.000065	1	01/09/18 09:25	01/10/18 10:52	309-00-2	
alpha-BHC	0.000078 U	mg/kg	0.0019	0.000078	1	01/09/18 09:25	01/10/18 10:52	319-84-6	
beta-BHC	0.000087 U	mg/kg	0.0019	0.000087	1	01/09/18 09:25	01/10/18 10:52	319-85-7	
delta-BHC	0.000098 U	mg/kg	0.0019	0.000098	1	01/09/18 09:25	01/10/18 10:52	319-86-8	
gamma-BHC (Lindane)	0.00017 U	mg/kg	0.0019	0.00017	1	01/09/18 09:25	01/10/18 10:52	58-89-9	
Chlordane (Technical)	0.047	mg/kg	0.019	0.018	1	01/09/18 09:25	01/10/18 10:52	57-74-9	
4,4'-DDD	0.00015 U	mg/kg	0.0019	0.00015	1	01/09/18 09:25	01/10/18 10:52	72-54-8	
4,4'-DDE	0.000069 U	mg/kg	0.0019	0.000069	1	01/09/18 09:25	01/10/18 10:52	72-55-9	
4,4'-DDT	0.00011 U	mg/kg	0.0019	0.00011	1	01/09/18 09:25	01/11/18 00:08	50-29-3	
Dieldrin	0.000045 U	mg/kg	0.0019	0.000045	1	01/09/18 09:25	01/10/18 10:52	60-57-1	
Endosulfan I	0.000028 U	mg/kg	0.0019	0.000028	1	01/09/18 09:25	01/10/18 10:52	959-98-8	
Endosulfan II	0.000064 U	mg/kg	0.0019	0.000064	1	01/09/18 09:25	01/10/18 10:52	33213-65-9	
Endosulfan sulfate	0.000049 U	mg/kg	0.0019	0.000049	1	01/09/18 09:25	01/10/18 10:52	1031-07-8	
Endrin	0.000059 U	mg/kg	0.0019	0.000059	1	01/09/18 09:25	01/10/18 10:52	72-20-8	
Endrin aldehyde	0.000075 U	mg/kg	0.0037	0.000075	1	01/09/18 09:25	01/10/18 10:52	7421-93-4	
Endrin ketone	0.000090 U	mg/kg	0.0019	0.000090	1	01/09/18 09:25	01/10/18 10:52	53494-70-5	
Heptachlor	0.000044 U	mg/kg	0.0019	0.000044	1	01/09/18 09:25	01/10/18 10:52	76-44-8	
Heptachlor epoxide	0.0010 I	mg/kg	0.0019	0.00013	1	01/09/18 09:25	01/10/18 10:52	1024-57-3	
Methoxychlor	0.0012 U	mg/kg	0.0019	0.0012	1	01/09/18 09:25	01/10/18 10:52	72-43-5	
Toxaphene	0.0083 U	mg/kg	0.019	0.0083	1	01/09/18 09:25	01/10/18 10:52	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	87	%	53-140		1	01/09/18 09:25	01/10/18 10:52	877-09-8	
Decachlorobiphenyl (S)	75	%	43-157		1	01/09/18 09:25	01/10/18 10:52	2051-24-3	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	10.8	%	0.10	0.10	1		01/04/18 15:54		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2995.00 /Carolina Club

Pace Project No.: 35365919

Sample: SB-03-03 **Lab ID: 35365919007** Collected: 01/02/18 12:55 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides Analytical Method: EPA 8081 Preparation Method: EPA 3546									
Aldrin	0.000066 U	mg/kg	0.0019	0.000066	1	01/09/18 09:25	01/10/18 11:12	309-00-2	
alpha-BHC	0.000079 U	mg/kg	0.0019	0.000079	1	01/09/18 09:25	01/10/18 11:12	319-84-6	
beta-BHC	0.000088 U	mg/kg	0.0019	0.000088	1	01/09/18 09:25	01/10/18 11:12	319-85-7	
delta-BHC	0.000099 U	mg/kg	0.0019	0.000099	1	01/09/18 09:25	01/10/18 11:12	319-86-8	
gamma-BHC (Lindane)	0.00017 U	mg/kg	0.0019	0.00017	1	01/09/18 09:25	01/10/18 11:12	58-89-9	
Chlordane (Technical)	0.018 U	mg/kg	0.019	0.018	1	01/09/18 09:25	01/10/18 11:12	57-74-9	
4,4'-DDD	0.00015 U	mg/kg	0.0019	0.00015	1	01/09/18 09:25	01/10/18 11:12	72-54-8	
4,4'-DDE	0.000070 U	mg/kg	0.0019	0.000070	1	01/09/18 09:25	01/10/18 11:12	72-55-9	
4,4'-DDT	0.00011 U	mg/kg	0.0019	0.00011	1	01/09/18 09:25	01/11/18 00:31	50-29-3	
Dieldrin	0.000046 U	mg/kg	0.0019	0.000046	1	01/09/18 09:25	01/10/18 11:12	60-57-1	
Endosulfan I	0.000029 U	mg/kg	0.0019	0.000029	1	01/09/18 09:25	01/10/18 11:12	959-98-8	
Endosulfan II	0.000065 U	mg/kg	0.0019	0.000065	1	01/09/18 09:25	01/10/18 11:12	33213-65-9	
Endosulfan sulfate	0.000049 U	mg/kg	0.0019	0.000049	1	01/09/18 09:25	01/10/18 11:12	1031-07-8	
Endrin	0.000059 U	mg/kg	0.0019	0.000059	1	01/09/18 09:25	01/10/18 11:12	72-20-8	
Endrin aldehyde	0.000075 U	mg/kg	0.0038	0.000075	1	01/09/18 09:25	01/10/18 11:12	7421-93-4	
Endrin ketone	0.000091 U	mg/kg	0.0019	0.000091	1	01/09/18 09:25	01/10/18 11:12	53494-70-5	
Heptachlor	0.000045 U	mg/kg	0.0019	0.000045	1	01/09/18 09:25	01/10/18 11:12	76-44-8	
Heptachlor epoxide	0.00022 I	mg/kg	0.0019	0.00013	1	01/09/18 09:25	01/10/18 11:12	1024-57-3	
Methoxychlor	0.0012 U	mg/kg	0.0019	0.0012	1	01/09/18 09:25	01/10/18 11:12	72-43-5	
Toxaphene	0.0084 U	mg/kg	0.019	0.0084	1	01/09/18 09:25	01/10/18 11:12	8001-35-2	
Surrogates									
Tetrachloro-m-xylene (S)	90	%	53-140		1	01/09/18 09:25	01/10/18 11:12	877-09-8	
Decachlorobiphenyl (S)	61	%	43-157		1	01/09/18 09:25	01/10/18 11:12	2051-24-3	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	12.4	%	0.10	0.10	1		01/04/18 15:54		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2995.00 /Carolina Club
Pace Project No.: 35365919

QC Batch: 417034 Analysis Method: EPA 8081
QC Batch Method: EPA 3546 Analysis Description: 8081 GCS Pesticides
Associated Lab Samples: 35365919001, 35365919002, 35365919003, 35365919004, 35365919005, 35365919006, 35365919007

METHOD BLANK: 2272712 Matrix: Solid
Associated Lab Samples: 35365919001, 35365919002, 35365919003, 35365919004, 35365919005, 35365919006, 35365919007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
4,4'-DDD	mg/kg	0.00013 U	0.0017	0.00013	01/09/18 20:55	
4,4'-DDE	mg/kg	0.000061 U	0.0017	0.000061	01/09/18 20:55	
4,4'-DDT	mg/kg	0.000096 U	0.0017	0.000096	01/09/18 20:55	
Aldrin	mg/kg	0.000058 U	0.0017	0.000058	01/09/18 20:55	
alpha-BHC	mg/kg	0.000069 U	0.0017	0.000069	01/09/18 20:55	
beta-BHC	mg/kg	0.000077 U	0.0017	0.000077	01/09/18 20:55	
Chlordane (Technical)	mg/kg	0.016 U	0.017	0.016	01/09/18 20:55	
delta-BHC	mg/kg	0.000087 U	0.0017	0.000087	01/09/18 20:55	
Dieldrin	mg/kg	0.000040 U	0.0017	0.000040	01/09/18 20:55	
Endosulfan I	mg/kg	0.000025 U	0.0017	0.000025	01/09/18 20:55	
Endosulfan II	mg/kg	0.000057 U	0.0017	0.000057	01/09/18 20:55	
Endosulfan sulfate	mg/kg	0.000043 U	0.0017	0.000043	01/09/18 20:55	
Endrin	mg/kg	0.000052 U	0.0017	0.000052	01/09/18 20:55	
Endrin aldehyde	mg/kg	0.000066 U	0.0033	0.000066	01/09/18 20:55	
Endrin ketone	mg/kg	0.000080 U	0.0017	0.000080	01/09/18 20:55	
gamma-BHC (Lindane)	mg/kg	0.00015 U	0.0017	0.00015	01/09/18 20:55	
Heptachlor	mg/kg	0.000039 U	0.0017	0.000039	01/09/18 20:55	
Heptachlor epoxide	mg/kg	0.00011 U	0.0017	0.00011	01/09/18 20:55	
Methoxychlor	mg/kg	0.0011 U	0.0017	0.0011	01/09/18 20:55	
Toxaphene	mg/kg	0.0074 U	0.017	0.0074	01/09/18 20:55	
Decachlorobiphenyl (S)	%	108	43-157		01/09/18 20:55	
Tetrachloro-m-xylene (S)	%	96	53-140		01/09/18 20:55	

LABORATORY CONTROL SAMPLE: 2272713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4,4'-DDD	mg/kg	.017	0.016	95	71-137	
4,4'-DDE	mg/kg	.017	0.016	93	71-136	
4,4'-DDT	mg/kg	.017	0.018	108	62-140	
Aldrin	mg/kg	.017	0.014	85	67-128	
alpha-BHC	mg/kg	.017	0.015	87	68-130	
beta-BHC	mg/kg	.017	0.016	93	70-130	
delta-BHC	mg/kg	.017	0.012	73	45-123	
Dieldrin	mg/kg	.017	0.015	92	72-132	
Endosulfan I	mg/kg	.017	0.015	91	72-130	
Endosulfan II	mg/kg	.017	0.015	91	72-132	
Endosulfan sulfate	mg/kg	.017	0.015	90	68-130	
Endrin	mg/kg	.017	0.016	98	70-135	
Endrin aldehyde	mg/kg	.017	0.013	80	59-131	
Endrin ketone	mg/kg	.017	0.016	93	69-135	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2995.00 /Carolina Club
Pace Project No.: 35365919

LABORATORY CONTROL SAMPLE: 2272713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
gamma-BHC (Lindane)	mg/kg	.017	0.015	88	69-132	
Heptachlor	mg/kg	.017	0.016	94	68-131	
Heptachlor epoxide	mg/kg	.017	0.015	90	69-130	
Methoxychlor	mg/kg	.017	0.017	104	64-139	
Decachlorobiphenyl (S)	%			104	43-157	
Tetrachloro-m-xylene (S)	%			88	53-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2272714 2272715

Parameter	Units	35365322008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4,4'-DDD	mg/kg	0.0013 U	.017	.017	0.015 I	0.011 I	91	65	71-137		40	M6
4,4'-DDE	mg/kg	0.016 I	.017	.017	0.028	0.025	73	50	71-136	14	40	M6
4,4'-DDT	mg/kg	0.00097 U	.017	.017	0.022	0.018	128	104	62-140	20	40	D3
Aldrin	mg/kg	0.00059 U	.017	.017	0.013 I	0.0098 I	75	58	67-128		40	M6
alpha-BHC	mg/kg	0.00070 U	.017	.017	0.026	0.024	158	145	68-130	8	40	D3,M6
beta-BHC	mg/kg	0.00078 U	.017	.017	0.022	0.020	133	118	70-130	12	40	M6
delta-BHC	mg/kg	0.00088 U	.017	.017	0.010 I	0.0074 I	60	44	45-123		40	M6
Dieldrin	mg/kg	0.00040 U	.017	.017	0.014 I	0.0098 I	82	58	72-132		40	M6
Endosulfan I	mg/kg	0.00025 U	.017	.017	0.015 I	0.011 I	89	66	72-130		40	M6
Endosulfan II	mg/kg	0.00058 U	.017	.017	0.016 I	0.013 I	98	74	72-132		40	
Endosulfan sulfate	mg/kg	0.00044 U	.017	.017	0.014 I	0.010 I	84	61	68-130		40	M6
Endrin	mg/kg	0.00053 U	.017	.017	0.014 I	0.011 I	86	65	70-135		40	M6
Endrin aldehyde	mg/kg	0.00067 U	.017	.017	0.020 I	0.017 I	118	99	59-131		40	
Endrin ketone	mg/kg	0.00081 U	.017	.017	0.012 I	0.0095 I	74	56	69-135		40	M6
gamma-BHC (Lindane)	mg/kg	0.0015 U	.017	.017	0.028	0.025	164	147	69-132	11	40	M6
Heptachlor	mg/kg	0.00039 U	.017	.017	0.014 I	0.010 I	81	62	68-131		40	M6
Heptachlor epoxide	mg/kg	0.0011 U	.017	.017	0.016 I	0.011 I	95	65	69-130		40	M6
Methoxychlor	mg/kg	0.011 U	.017	.017	0.024	0.016 I	143	94	64-139		40	M6
Decachlorobiphenyl (S)	%						124	98	43-157			
Tetrachloro-m-xylene (S)	%						88	72	53-140			

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QUALITY CONTROL DATA

Project: 2995.00 /Carolina Club

Pace Project No.: 35365919

QC Batch: 416584 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 35365919001, 35365919002, 35365919003, 35365919004, 35365919005, 35365919006, 35365919007

SAMPLE DUPLICATE: 2270472

Parameter	Units	35363428001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	83.1	84.1	1	5	

SAMPLE DUPLICATE: 2270473

Parameter	Units	35365149008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	2.8	4.8	50	5	J(D6)

SAMPLE DUPLICATE: 2270474

Parameter	Units	35365149017 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.8	16.9	10	5	J(D6)

SAMPLE DUPLICATE: 2270475

Parameter	Units	35365844003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	1.6	1.7	5	5	

SAMPLE DUPLICATE: 2270476

Parameter	Units	35365844012 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.6	21.1	2	5	

SAMPLE DUPLICATE: 2270477

Parameter	Units	35365844022 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	0.10 U	0.36		5	

SAMPLE DUPLICATE: 2270478

Parameter	Units	35365919005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	18.4	14.4	25	5	J(D6)

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2995.00 /Carolina Club

Pace Project No.: 35365919

SAMPLE DUPLICATE: 2270479

Parameter	Units	35366029002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	0.10 U	0.10 U		5	

SAMPLE DUPLICATE: 2270480

Parameter	Units	35366175003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.2	18.4	7	5	J(D6)

SAMPLE DUPLICATE: 2270481

Parameter	Units	35366229005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.7	13.9	1	5	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2995.00 /Carolina Club
Pace Project No.: 35365919

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.
TNTC - Too Numerous To Count
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

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.
D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
J(D6) Estimated Value. The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2995.00 /Carolina Club

Pace Project No.: 35365919

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35365919001	SB-01-01	EPA 3546	417034	EPA 8081	417359
35365919002	SB-01-02	EPA 3546	417034	EPA 8081	417359
35365919003	SB-02-01	EPA 3546	417034	EPA 8081	417359
35365919004	SB-02-02	EPA 3546	417034	EPA 8081	417359
35365919005	SB-03-01	EPA 3546	417034	EPA 8081	417359
35365919006	SB-03-02	EPA 3546	417034	EPA 8081	417359
35365919007	SB-03-03	EPA 3546	417034	EPA 8081	417359
35365919001	SB-01-01	ASTM D2974-87	416584		
35365919002	SB-01-02	ASTM D2974-87	416584		
35365919003	SB-02-01	ASTM D2974-87	416584		
35365919004	SB-02-02	ASTM D2974-87	416584		
35365919005	SB-03-01	ASTM D2974-87	416584		
35365919006	SB-03-02	ASTM D2974-87	416584		
35365919007	SB-03-03	ASTM D2974-87	416584		

REPORT OF LABORATORY ANALYSIS

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	Document Name:	Document Revised:
	Sample Condition Upon Receipt Form	August 2, 2017
	Document No.: F-FL-C-007 rev. 12	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project # **WO# : 35365919**
Project Manager: PM: CTR **Due Date:** 01/09/18
Client: CLIENT: 36--WANGRO

Date and Initials of person:

Examining contents: _____
 Label: _____
 Deliver: _____
 pH: _____

Thermometer Used: F-324 Date: 1/2/18 Time: 1700 Initials: _____

State of Origin: _____

Cooler #1 Temp. °C 2.8 (Visual) 0.0 (Correction Factor) 2.8 (Actual)
 Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
 Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other _____
 Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority
☐ Other _____
 Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Ice: Wet Blue Dry None

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

Comments:

Chain of Custody Present	☒ Yes ☐ No ☐ N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☒ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☐ Yes ☐ No ☒ N/A	
All Containers needing preservation are found to be in compliance with EPA recommendation:	☐ Yes ☐ No ☒ N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	☐ Yes ☐ No ☒ N/A	
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments): _____

Project Manager Review: _____

Date: _____

January 10, 2018

John Abbott
Wantman Group
2035 Vista Parkway
West Palm Beach, FL 33411

RE: Project: 2995.00/Carolina Club
Pace Project No.: 35365920

Dear John Abbott:

Enclosed are the analytical results for sample(s) received by the laboratory on January 02, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC 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,



Christina Raschke
christina.raschke@pacelabs.com
(954)582-4300
Project Manager

Enclosures

cc: William Lorentzen, Wantman Group



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

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
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

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
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
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35365920001	SB-01-01	Solid	01/02/18 12:15	01/02/18 17:00
35365920002	SB-01-02	Solid	01/02/18 12:20	01/02/18 17:00
35365920003	SB-02-01	Solid	01/02/18 12:32	01/02/18 17:00
35365920004	SB-02-02	Solid	01/02/18 12:35	01/02/18 17:00
35365920005	SB-03-01	Solid	01/02/18 12:48	01/02/18 17:00
35365920006	SB-03-02	Solid	01/02/18 12:52	01/02/18 17:00
35365920007	SB-03-03	Solid	01/02/18 12:55	01/02/18 17:00
35365920008	SB-04-01	Solid	01/02/18 12:57	01/02/18 17:00
35365920009	SB-04-02	Solid	01/02/18 13:02	01/02/18 17:00
35365920010	SB-04-03	Solid	01/02/18 13:05	01/02/18 17:00
35365920011	SB-05-01	Solid	01/02/18 13:12	01/02/18 17:00
35365920012	SB-05-02	Solid	01/02/18 13:15	01/02/18 17:00
35365920013	SB-05-03	Solid	01/02/18 13:20	01/02/18 17:00
35365920014	SB-06-01	Solid	01/02/18 13:32	01/02/18 17:00
35365920015	SB-06-02	Solid	01/02/18 13:40	01/02/18 17:00
35365920016	SB-07-01	Solid	01/02/18 14:02	01/02/18 17:00
35365920017	SB-07-02	Solid	01/02/18 14:08	01/02/18 17:00
35365920018	SB-07-03	Solid	01/02/18 14:12	01/02/18 17:00
35365920019	SB-07-04	Solid	01/02/18 14:15	01/02/18 17:00
35365920020	SB-08-01	Solid	01/02/18 14:47	01/02/18 17:00
35365920021	SB-08-02	Solid	01/02/18 14:50	01/02/18 17:00
35365920022	SB-08-03	Solid	01/02/18 14:55	01/02/18 17:00
35365920023	SB-09-01	Solid	01/02/18 15:23	01/02/18 17:00
35365920024	SB-09-02	Solid	01/02/18 15:30	01/02/18 17:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35365920001	SB-01-01	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365920002	SB-01-02	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365920003	SB-02-01	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365920004	SB-02-02	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365920005	SB-03-01	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365920006	SB-03-02	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365920007	SB-03-03	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365920008	SB-04-01	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365920009	SB-04-02	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365920010	SB-04-03	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365920011	SB-05-01	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365920012	SB-05-02	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365920013	SB-05-03	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365920014	SB-06-01	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365920015	SB-06-02	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365920016	SB-07-01	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365920017	SB-07-02	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365920018	SB-07-03	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	CS2	1	PASI-O
35365920019	SB-07-04	EPA 6020	CRT	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35365920020	SB-08-01	ASTM D2974-87	CS2	1	PASI-O
		EPA 6020	CRT	1	PASI-O
35365920021	SB-08-02	ASTM D2974-87	CS2	1	PASI-O
		EPA 6020	CRT	1	PASI-O
35365920022	SB-08-03	ASTM D2974-87	CS2	1	PASI-O
		EPA 6020	CRT	1	PASI-O
35365920023	SB-09-01	ASTM D2974-87	CS2	1	PASI-O
		EPA 6020	CRT	1	PASI-O
35365920024	SB-09-02	ASTM D2974-87	CS2	1	PASI-O
		EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	CS2	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 2995.00/Carolina Club
Pace Project No.: 35365920

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35365920001	SB-01-01					
EPA 6020	Arsenic	24.5	mg/kg	1.3	01/04/18 18:30	J(M1)
ASTM D2974-87	Percent Moisture	17.5	%	0.10	01/03/18 10:57	
35365920002	SB-01-02					
EPA 6020	Arsenic	1.5	mg/kg	1.3	01/04/18 18:43	
ASTM D2974-87	Percent Moisture	9.4	%	0.10	01/03/18 10:57	
35365920003	SB-02-01					
EPA 6020	Arsenic	23.6	mg/kg	1.1	01/04/18 18:45	
ASTM D2974-87	Percent Moisture	14.1	%	0.10	01/03/18 10:57	
35365920004	SB-02-02					
EPA 6020	Arsenic	1.1	mg/kg	1.1	01/04/18 18:47	
ASTM D2974-87	Percent Moisture	12.0	%	0.10	01/03/18 10:57	
35365920005	SB-03-01					
EPA 6020	Arsenic	2.5	mg/kg	0.95	01/04/18 18:50	
ASTM D2974-87	Percent Moisture	11.5	%	0.10	01/03/18 10:57	
35365920006	SB-03-02					
EPA 6020	Arsenic	10.4	mg/kg	1.0	01/04/18 18:52	
ASTM D2974-87	Percent Moisture	10.6	%	0.10	01/03/18 10:57	
35365920007	SB-03-03					
EPA 6020	Arsenic	3.6	mg/kg	1.2	01/04/18 18:55	
ASTM D2974-87	Percent Moisture	12.7	%	0.10	01/03/18 10:57	
35365920008	SB-04-01					
EPA 6020	Arsenic	27.4	mg/kg	1.3	01/04/18 18:57	
ASTM D2974-87	Percent Moisture	13.5	%	0.10	01/03/18 10:58	
35365920009	SB-04-02					
EPA 6020	Arsenic	6.5	mg/kg	1.1	01/04/18 19:00	
ASTM D2974-87	Percent Moisture	7.7	%	0.10	01/03/18 10:58	
35365920010	SB-04-03					
EPA 6020	Arsenic	2.0	mg/kg	1.5	01/04/18 19:02	
ASTM D2974-87	Percent Moisture	27.3	%	0.10	01/03/18 10:58	
35365920011	SB-05-01					
EPA 6020	Arsenic	14.5	mg/kg	1.4	01/04/18 19:04	
ASTM D2974-87	Percent Moisture	11.1	%	0.10	01/03/18 10:58	
35365920012	SB-05-02					
EPA 6020	Arsenic	24.2	mg/kg	1.3	01/04/18 19:12	
ASTM D2974-87	Percent Moisture	7.5	%	0.10	01/03/18 10:58	
35365920013	SB-05-03					
EPA 6020	Arsenic	9.8	mg/kg	1.2	01/04/18 19:15	
ASTM D2974-87	Percent Moisture	6.2	%	0.10	01/03/18 10:58	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35365920014	SB-06-01					
EPA 6020	Arsenic	3.6	mg/kg	1.5	01/04/18 19:17	
ASTM D2974-87	Percent Moisture	17.6	%	0.10	01/03/18 10:58	
35365920015	SB-06-02					
EPA 6020	Arsenic	8.4	mg/kg	1.2	01/04/18 19:19	
ASTM D2974-87	Percent Moisture	12.7	%	0.10	01/03/18 10:58	
35365920016	SB-07-01					
EPA 6020	Arsenic	38.9	mg/kg	1.3	01/04/18 19:22	
ASTM D2974-87	Percent Moisture	15.0	%	0.10	01/03/18 10:58	
35365920017	SB-07-02					
EPA 6020	Arsenic	3.3	mg/kg	1.2	01/04/18 19:24	
ASTM D2974-87	Percent Moisture	11.1	%	0.10	01/03/18 10:58	
35365920018	SB-07-03					
EPA 6020	Arsenic	1.7	mg/kg	1.3	01/04/18 19:27	
ASTM D2974-87	Percent Moisture	14.1	%	0.10	01/03/18 10:58	
35365920019	SB-07-04					
ASTM D2974-87	Percent Moisture	14.2	%	0.10	01/03/18 10:58	
35365920020	SB-08-01					
EPA 6020	Arsenic	11.6	mg/kg	1.3	01/04/18 19:32	
ASTM D2974-87	Percent Moisture	8.8	%	0.10	01/03/18 10:58	
35365920021	SB-08-02					
EPA 6020	Arsenic	5.9	mg/kg	1.1	01/04/18 18:05	
ASTM D2974-87	Percent Moisture	12.7	%	0.10	01/03/18 10:58	
35365920022	SB-08-03					
EPA 6020	Arsenic	2.5	mg/kg	1.7	01/04/18 18:18	
ASTM D2974-87	Percent Moisture	28.9	%	0.10	01/03/18 10:58	
35365920023	SB-09-01					
EPA 6020	Arsenic	56.0	mg/kg	1.6	01/04/18 18:20	
ASTM D2974-87	Percent Moisture	37.3	%	0.10	01/03/18 10:58	
35365920024	SB-09-02					
EPA 6020	Arsenic	4.0	mg/kg	1.2	01/04/18 18:23	
ASTM D2974-87	Percent Moisture	18.1	%	0.10	01/03/18 10:58	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-01-01 **Lab ID: 35365920001** Collected: 01/02/18 12:15 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
Arsenic	24.5	mg/kg	1.3	0.63	20	01/04/18 06:17	01/04/18 18:30	7440-38-2	J(M1)
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	17.5	%	0.10	0.10	1		01/03/18 10:57		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-01-02 **Lab ID: 35365920002** Collected: 01/02/18 12:20 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	1.5	mg/kg	1.3	0.67	20	01/04/18 06:17	01/04/18 18:43	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	9.4	%	0.10	0.10	1		01/03/18 10:57		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-02-01 **Lab ID: 35365920003** Collected: 01/02/18 12:32 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	23.6	mg/kg	1.1	0.53	20	01/04/18 06:17	01/04/18 18:45	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	14.1	%	0.10	0.10	1		01/03/18 10:57		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-02-02 **Lab ID: 35365920004** Collected: 01/02/18 12:35 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
Arsenic	1.1 I	mg/kg	1.1	0.56	20	01/04/18 06:17	01/04/18 18:47	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	12.0	%	0.10	0.10	1		01/03/18 10:57		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-03-01 **Lab ID: 35365920005** Collected: 01/02/18 12:48 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	2.5	mg/kg	0.95	0.48	20	01/04/18 06:17	01/04/18 18:50	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	11.5	%	0.10	0.10	1		01/03/18 10:57		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-03-02 **Lab ID: 35365920006** Collected: 01/02/18 12:52 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	10.4	mg/kg	1.0	0.51	20	01/04/18 06:17	01/04/18 18:52	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	10.6	%	0.10	0.10	1		01/03/18 10:57		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-03-03 **Lab ID: 35365920007** Collected: 01/02/18 12:55 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	3.6	mg/kg	1.2	0.58	20	01/04/18 06:17	01/04/18 18:55	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.7	%	0.10	0.10	1		01/03/18 10:57		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-04-01 **Lab ID: 35365920008** Collected: 01/02/18 12:57 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	27.4	mg/kg	1.3	0.66	20	01/04/18 06:17	01/04/18 18:57	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	13.5	%	0.10	0.10	1		01/03/18 10:58		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-04-02 **Lab ID: 35365920009** Collected: 01/02/18 13:02 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	6.5	mg/kg	1.1	0.56	20	01/04/18 06:17	01/04/18 19:00	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	7.7	%	0.10	0.10	1		01/03/18 10:58		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-04-03 **Lab ID: 35365920010** Collected: 01/02/18 13:05 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	2.0	mg/kg	1.5	0.77	20	01/04/18 06:17	01/04/18 19:02	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	27.3	%	0.10	0.10	1		01/03/18 10:58		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-05-01 **Lab ID: 35365920011** Collected: 01/02/18 13:12 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	14.5	mg/kg	1.4	0.68	20	01/04/18 06:17	01/04/18 19:04	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	11.1	%	0.10	0.10	1		01/03/18 10:58		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-05-02 **Lab ID: 35365920012** Collected: 01/02/18 13:15 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	24.2	mg/kg	1.3	0.64	20	01/04/18 06:17	01/04/18 19:12	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	7.5	%	0.10	0.10	1		01/03/18 10:58		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-05-03 **Lab ID: 35365920013** Collected: 01/02/18 13:20 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	9.8	mg/kg	1.2	0.62	20	01/04/18 06:17	01/04/18 19:15	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	6.2	%	0.10	0.10	1		01/03/18 10:58		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-06-01 **Lab ID: 35365920014** Collected: 01/02/18 13:32 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
Arsenic	3.6	mg/kg	1.5	0.74	20	01/04/18 06:17	01/04/18 19:17	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	17.6	%	0.10	0.10	1		01/03/18 10:58		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-06-02 **Lab ID: 35365920015** Collected: 01/02/18 13:40 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	8.4	mg/kg	1.2	0.61	20	01/04/18 06:17	01/04/18 19:19	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.7	%	0.10	0.10	1		01/03/18 10:58		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-07-01 **Lab ID: 35365920016** Collected: 01/02/18 14:02 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	38.9	mg/kg	1.3	0.64	20	01/04/18 06:17	01/04/18 19:22	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	15.0	%	0.10	0.10	1		01/03/18 10:58		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-07-02 **Lab ID: 35365920017** Collected: 01/02/18 14:08 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	3.3	mg/kg	1.2	0.62	20	01/04/18 06:17	01/04/18 19:24	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	11.1	%	0.10	0.10	1		01/03/18 10:58		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-07-03 **Lab ID: 35365920018** Collected: 01/02/18 14:12 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	1.7	mg/kg	1.3	0.64	20	01/04/18 06:17	01/04/18 19:27	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	14.1	%	0.10	0.10	1		01/03/18 10:58		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-07-04 **Lab ID: 35365920019** Collected: 01/02/18 14:15 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
Arsenic	0.58 U	mg/kg	1.2	0.58	20	01/04/18 06:17	01/04/18 19:29	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	14.2	%	0.10	0.10	1		01/03/18 10:58		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-08-01 **Lab ID: 35365920020** Collected: 01/02/18 14:47 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	11.6	mg/kg	1.3	0.63	20	01/04/18 06:17	01/04/18 19:32	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	8.8	%	0.10	0.10	1		01/03/18 10:58		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-08-02 **Lab ID: 35365920021** Collected: 01/02/18 14:50 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	5.9	mg/kg	1.1	0.56	20	01/04/18 05:48	01/04/18 18:05	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.7	%	0.10	0.10	1		01/03/18 10:58		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-08-03 **Lab ID: 35365920022** Collected: 01/02/18 14:55 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	2.5	mg/kg	1.7	0.83	20	01/04/18 05:48	01/04/18 18:18	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	28.9	%	0.10	0.10	1		01/03/18 10:58		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-09-01 **Lab ID: 35365920023** Collected: 01/02/18 15:23 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
Arsenic	56.0	mg/kg	1.6	0.81	20	01/04/18 05:48	01/04/18 18:20	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	37.3	%	0.10	0.10	1		01/03/18 10:58		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Sample: SB-09-02 **Lab ID: 35365920024** Collected: 01/02/18 15:30 Received: 01/02/18 17:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	4.0	mg/kg	1.2	0.59	20	01/04/18 05:48	01/04/18 18:23	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	18.1	%	0.10	0.10	1		01/03/18 10:58		

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QUALITY CONTROL DATA

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

QC Batch:	416460	Analysis Method:	EPA 6020
QC Batch Method:	EPA 3050	Analysis Description:	6020 MET SOLID
Associated Lab Samples:	35365920001, 35365920002, 35365920003, 35365920004, 35365920005, 35365920006, 35365920007, 35365920008, 35365920009, 35365920010, 35365920011, 35365920012, 35365920013, 35365920014, 35365920015, 35365920016, 35365920017, 35365920018, 35365920019, 35365920020		

METHOD BLANK: 2270096

Matrix: Solid

Associated Lab Samples: 35365920001, 35365920002, 35365920003, 35365920004, 35365920005, 35365920006, 35365920007, 35365920008, 35365920009, 35365920010, 35365920011, 35365920012, 35365920013, 35365920014, 35365920015, 35365920016, 35365920017, 35365920018, 35365920019, 35365920020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	0.51 U	1.0	0.51	01/04/18 18:25	

LABORATORY CONTROL SAMPLE: 2270097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	29.6	30.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2270098 2270099

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	24.5	32.1	32.8	2.8	3.0	-68	-65	75-125	6	20	J(M1)

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QUALITY CONTROL DATA

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

QC Batch: 416461 Analysis Method: EPA 6020
QC Batch Method: EPA 3050 Analysis Description: 6020 MET SOLID
Associated Lab Samples: 35365920021, 35365920022, 35365920023, 35365920024

METHOD BLANK: 2270100 Matrix: Solid
Associated Lab Samples: 35365920021, 35365920022, 35365920023, 35365920024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	0.45 U	0.91	0.45	01/04/18 18:00	

LABORATORY CONTROL SAMPLE: 2270101

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	22.5	23.9	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2270102 2270103

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	5.9	29.4	32	32.8	33.3	91	86	75-125	1	20	

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QUALITY CONTROL DATA

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

QC Batch:	416247	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	35365920001, 35365920002, 35365920003, 35365920004, 35365920005, 35365920006, 35365920007, 35365920008, 35365920009, 35365920010, 35365920011, 35365920012, 35365920013, 35365920014, 35365920015, 35365920016, 35365920017, 35365920018, 35365920019, 35365920020, 35365920021, 35365920022, 35365920023, 35365920024		

SAMPLE DUPLICATE: 2269089

Parameter	Units	35363346001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	2.1	1.0	69	5	J(D6)

SAMPLE DUPLICATE: 2269091

Parameter	Units	35365691002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	1.7	1.6	1	5	

SAMPLE DUPLICATE: 2269111

Parameter	Units	35365780002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	0.10 U	0.10 U		5	

SAMPLE DUPLICATE: 2269118

Parameter	Units	35365920007 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.7	12.9	1	5	

SAMPLE DUPLICATE: 2269119

Parameter	Units	35365920016 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.0	15.5	3	5	

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QUALIFIERS

Project: 2995.00/Carolina Club
Pace Project No.: 35365920

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.
TNTC - Too Numerous To Count
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

BATCH QUALIFIERS

Batch: 416495

[1] Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

Batch: 416496

[1] Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35365920001	SB-01-01	EPA 3050	416460	EPA 6020	416496
35365920002	SB-01-02	EPA 3050	416460	EPA 6020	416496
35365920003	SB-02-01	EPA 3050	416460	EPA 6020	416496
35365920004	SB-02-02	EPA 3050	416460	EPA 6020	416496
35365920005	SB-03-01	EPA 3050	416460	EPA 6020	416496
35365920006	SB-03-02	EPA 3050	416460	EPA 6020	416496
35365920007	SB-03-03	EPA 3050	416460	EPA 6020	416496
35365920008	SB-04-01	EPA 3050	416460	EPA 6020	416496
35365920009	SB-04-02	EPA 3050	416460	EPA 6020	416496
35365920010	SB-04-03	EPA 3050	416460	EPA 6020	416496
35365920011	SB-05-01	EPA 3050	416460	EPA 6020	416496
35365920012	SB-05-02	EPA 3050	416460	EPA 6020	416496
35365920013	SB-05-03	EPA 3050	416460	EPA 6020	416496
35365920014	SB-06-01	EPA 3050	416460	EPA 6020	416496
35365920015	SB-06-02	EPA 3050	416460	EPA 6020	416496
35365920016	SB-07-01	EPA 3050	416460	EPA 6020	416496
35365920017	SB-07-02	EPA 3050	416460	EPA 6020	416496
35365920018	SB-07-03	EPA 3050	416460	EPA 6020	416496
35365920019	SB-07-04	EPA 3050	416460	EPA 6020	416496
35365920020	SB-08-01	EPA 3050	416460	EPA 6020	416496
35365920021	SB-08-02	EPA 3050	416461	EPA 6020	416495
35365920022	SB-08-03	EPA 3050	416461	EPA 6020	416495
35365920023	SB-09-01	EPA 3050	416461	EPA 6020	416495
35365920024	SB-09-02	EPA 3050	416461	EPA 6020	416495
35365920001	SB-01-01	ASTM D2974-87	416247		
35365920002	SB-01-02	ASTM D2974-87	416247		
35365920003	SB-02-01	ASTM D2974-87	416247		
35365920004	SB-02-02	ASTM D2974-87	416247		
35365920005	SB-03-01	ASTM D2974-87	416247		
35365920006	SB-03-02	ASTM D2974-87	416247		
35365920007	SB-03-03	ASTM D2974-87	416247		
35365920008	SB-04-01	ASTM D2974-87	416247		
35365920009	SB-04-02	ASTM D2974-87	416247		
35365920010	SB-04-03	ASTM D2974-87	416247		
35365920011	SB-05-01	ASTM D2974-87	416247		
35365920012	SB-05-02	ASTM D2974-87	416247		
35365920013	SB-05-03	ASTM D2974-87	416247		
35365920014	SB-06-01	ASTM D2974-87	416247		
35365920015	SB-06-02	ASTM D2974-87	416247		
35365920016	SB-07-01	ASTM D2974-87	416247		
35365920017	SB-07-02	ASTM D2974-87	416247		
35365920018	SB-07-03	ASTM D2974-87	416247		
35365920019	SB-07-04	ASTM D2974-87	416247		
35365920020	SB-08-01	ASTM D2974-87	416247		
35365920021	SB-08-02	ASTM D2974-87	416247		
35365920022	SB-08-03	ASTM D2974-87	416247		
35365920023	SB-09-01	ASTM D2974-87	416247		
35365920024	SB-09-02	ASTM D2974-87	416247		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2995.00/Carolina Club

Pace Project No.: 35365920

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
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REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

RECORD

Quote:

Page 1 of 3

Page 38 of 41



35365920

35365920

Container Type Codes	
NV	Amber Vial
CV	Clear Vial
AP	Amber Plastic
CP	Clear Plastic
CL	Clear Litr
AP	Amber Plastic
AG	Amber Glass
SL	Soil Jar
Other	
PPV	Prepared vial
ES	Encore Sampler
PPV	Prepared vial
PLC	Plastic container
PLJ	Plastic Jar
ZB	Zell Bag
TB	Toddler Bag
WIP	Wet Ink
G	Gallon Jar
TC	Terra-core

Example: 20z, 40z, 80z, 16oz, 32oz or 1L, other _____
 40ml 500ml 250ml 125 ml

Example: 40zP = 40z Plastic, 80zSL = 80z Soil Jar

Page 38 of 41

10

Matrix Codes

SD	Solid Waste	OL	Oil
GW	Ground Water	SL	Sludge

EFF	Effluent	SO	Soil Sediment
AFW	Analyte Free H ₂ O	AQ	Aqueous
WW	Waste Water	NA	Nonaqueous
DW	Drinking Water	PE	Petroleum

SW ☐ Surface Water ☐ Other _____
ML ☐ Misc. Liquid (Please specify) _____

1

Preservative Tyne CodesDescriptive type cues

A. None	E. HCl	I. Ice
B. HNO_3	F. MeOH	J. MCAA

C. H ₂ SO ₄	G. Na ₂ S ₂ O ₃	K. Zn Acetato
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	D. NaOH	H. NaHSO ₄	O. Other
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REMARKS[illegible]

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1000 JOURNAL OF CLIMATE

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Coolers #s - Temp °C

1 _____ 2 _____ 3 _____ 4 _____ 5 _____

Lab Use Only	YES	NO	N/A
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Non-Conformance Found?	_____	_____	_____
Samples INTACT upon arrival?	_____	_____	_____

Received on Wet Ice?			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Proper Preservatives Indicated?	_____	_____
Received within holding time?	_____	_____

Custody seals intact?	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Vials used without headspace?	_____	_____
Proper Containers Used?	_____	_____

C.O.C. Serial # 131701

40104



CHAIN OF CUSTODY RECORD

LAB W.O. # _____

Quote: _____

Page 2 of 3

Company Name: WGI PO# _____

Address: 2035 Vista Pkwy

City: West Palm Beach State: FL Zip: 33411

Attn: _____ Fax# _____

email: John.Abbott@wgi.com Phone: 561-214-5034

Project Name: Carolina Club Proj # _____

Sampler Signature: Will Brown Cycle One Event: Daily Weekly Monthly N/A

LAB ANALYSIS									
Sample	TRC	pH	Pres Codes	Parameters					
				As 6020					

Container Type Codes									
AV	Amber Vial	ES	Encore Sampler	SD	Solid Waste	OL	Oil	41	
CV	Clear Vial	PPV	Prepreserved vial	GW	Ground Water	SO	Soil Sample		
P	Plastic	PLC	Plastic container	EFF	Effluent	AO	Aqueous		
AL	Amber Lier	PLJ	Plastic Jar	AFW	Analyte Free H2O	NA	Nonaqueous		
CL	Clear Lier	ZB	Zinc bag	DW	Drinking Water	PE	Petroleum		
AP	Amber Plastic	WP	Wet Pack	SW	Surface Water	O	Other		
AG	Amber Glass	WP	Wet Pack	ML	Misc. Liquid		(Please specify)		
SL	Seal Jar	TC	Terra-core						
PPV	Prepreserved vial								
Example: 2oz, 4oz, 8oz, 16oz, 32oz or 1L, other									
40ml 500ml 250ml 125 ml									
Example: 4ozp = 4oz Plastic, 8ozSL= 8oz Soil Jar									

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code	Field Filtered	Integrity OK(Y/N)	Total # of containers
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1	SB-05-01	1/2/18	13:12	SC			1
2	SB-05-02		13:15				1
3	SB-05-03		13:20				1
4	SB-06-01		13:32				1
5	SB-06-02		13:40				1
6	SB-07-01		14:02				1
7	SB-07-02		14:08				1
8	SB-07-03		14:12				1
9	SB-07-04		14:15				1
10	SB-08-01		14:47				1

Preservative Type Codes									
A.	None	E.	HCL	I.	Ice	J.	MCAA		
B.	HNO3	F.	MeOH	K.	ZnAcetate				
C.	H2SO4	G.	Na2S2O3	O.	Other				
D.	NaOH	H.	NaHSO4						

REMARKS									
EXAMPLE Diss. Lead 6010									
# of Containers Size Type									
1 16ozp									

Coolers #s - Temp °C									
1	2	3	4	5					

Lab Use Only									
YES	NO	N/A							

1	Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time	Required State Certification
1	Will Brown	WGI	1/2/18	17:00	Par	Par	1/2/18	1700	FL GA SC NC NJ PA LA TX IL

CHAIN OF CUSTODY RECORD

LAB W.O. # _____

Quote: _____

Page 3 of 3

PO#

LAB ANALYSIS

Company Name: W&I
Address: 2035 Vista Pkwy
City: West Palm Beach State: FL Zip: 33411

Attn: _____ Fax# _____

email: John.Abbott@winc.com Phone: 561-214-5034

Project Name: Carolina Club

Proj # _____

Sampler Signature: Will Brown Circle One Event: ☒ Daily ☐ Weekly ☐ Monthly ☐ Semi-Annual ☐ Annual

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code	Field Filtered	Integrity OK(Y/N)	Total # of containers
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Parameters
As 6020

EXAMPLE
Diss. Lead 6010

REMARKS

Preservative Type Codes

SD	GW	EFF	ARW	DDW	SW	ML	OL	SL	AO	PE	O
Solid Waste	Ground Water	Effluent	Analysis Free H2O	Waste Water	Surface Water	Misc. Liquid	Oil	Sludge	Aqueous	Non-aqueous	Other (Please specify)

Matrix Codes

AV	CV	P	AL	CL	AP	AG	SI	Other	ES	PPV	PLC	PLJ	Z	TB	WP	TC	G	GA	SC	NC	NJ
Anker Vial	Clear Vial	Plastic	Anker Litter	Clear Litter	Anker Plastic	Anker Glass	Soil Jar	Prepared soil jar	Enrico Sampler	Prepared vial	Plastic container	Plastic jar	Ziploc bag	Tedlar bag	Whirl pak	Gallon Jug	Term-core				

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz or 1L, other _____
40ml, 500ml, 250ml, 125ml
Example: 4ozP = 4oz Plastic, 8ozSJ = 8oz Soil Jar

1	SB-08-02	1/2/18	14:50	So				1			☐	for	☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐		☐	
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Circle T A T REQUEST (must have Approval)	Short Hold	Circle QA/QC Report Level	EDD (Fees May Apply)	COC Condition	Required State Certification
☒ T ☐ A ☐ T	☒ Y ☐ N	<u>1</u> <u>2</u> <u>3</u> <u>4</u> <u>CLP</u> <u>AFCEE</u>	<u>ADAPT SEDD ERPMIS TSV</u>	<u>OK</u> <u>Incomplete</u>	<u>FL GA SC NC NJ PA LA TX IL</u>



Document Name:
Sample Condition Upon Receipt Form
Document No.: 5-FL-C-007-Rev 46

Document Revised:
August 2, 2017
Issuing Authority:
Pace Florida Quality Office

WO#: 35365920

(SCUR)

Project #
Project Manager:
Client:

PM: CTR Due Date: 01/08/18
CLIENT: 36-WANGRO

Date and Initials of person:
Examining contents:
Label:
Deliver:
pH:

Thermometer Used: T-324

Date: 1/2/18

Time: 11:20

Initials:

State of Origin:

Cooler #1 Temp. °C 22.5 (Visual) 0.0 (Correction Factor) 22.5 (Actual)

Cooler #2 Temp. °C (Visual) (Correction Factor) (Actual)

Cooler #3 Temp. °C (Visual) (Correction Factor) (Actual)

Cooler #4 Temp. °C (Visual) (Correction Factor) (Actual)

Cooler #5 Temp. °C (Visual) (Correction Factor) (Actual)

Cooler #6 Temp. °C (Visual) (Correction Factor) (Actual)

- ☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority
☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Ice: Wet Blue Dry None

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

Comments:

Chain of Custody Present	☒ Yes ☐ No ☐ N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☐ Yes ☒ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☐ Yes ☒ No ☐ N/A	
All Containers needing preservation are found to be in compliance with EPA recommendation:	☐ Yes ☒ No ☐ N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	☐ Yes ☒ No ☐ N/A	
Trip Blank Present:	☐ Yes ☒ No ☐ N/A	

Client Notification/ Resolution:

Person Contacted: _____

Date/Time: _____

Comments/ Resolution (use back for additional comments):

Project Manager Review: _____

Date: _____

January 18, 2018

John Abbott
Wantman Group
2035 Vista Parkway
West Palm Beach, FL 33411

RE: Project: 2995.00/Carolina Club
Pace Project No.: 35366985

Dear John Abbott:

Enclosed are the analytical results for sample(s) received by the laboratory on January 09, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Revision 1: Per client request, SPLP has been added.

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

Sincerely,



Christina Raschke
christina.raschke@pacelabs.com
(954)582-4300
Project Manager

Enclosures

cc: William Lorentzen, Wantman Group



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

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
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

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
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
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35366985001	SB-10-01	Solid	01/09/18 09:00	01/09/18 14:15
35366985002	SB-10-02	Solid	01/09/18 09:01	01/09/18 14:15
35366985003	SB-10-03	Solid	01/09/18 09:02	01/09/18 14:15
35366985004	SB-10-04	Solid	01/09/18 09:03	01/09/18 14:15
35366985005	SB-11-01	Solid	01/09/18 10:00	01/09/18 14:15
35366985006	SB-11-02	Solid	01/09/18 10:01	01/09/18 14:15
35366985007	SB-11-03	Solid	01/09/18 10:02	01/09/18 14:15
35366985008	SB-11-04	Solid	01/09/18 10:03	01/09/18 14:15
35366985009	SB-12-01	Solid	01/09/18 10:45	01/09/18 14:15
35366985010	SB-12-02	Solid	01/09/18 10:46	01/09/18 14:15
35366985011	SB-12-03	Solid	01/09/18 10:47	01/09/18 14:15
35366985012	SB-12-04	Solid	01/09/18 10:48	01/09/18 14:15
35366985013	SB-13-01	Solid	01/09/18 11:20	01/09/18 14:15
35366985014	SB-13-02	Solid	01/09/18 11:21	01/09/18 14:15
35366985015	SB-13-03	Solid	01/09/18 11:23	01/09/18 14:15
35366985016	SB-13-04	Solid	01/09/18 11:25	01/09/18 14:15
35366985017	SB-14-01	Solid	01/09/18 11:50	01/09/18 14:15
35366985018	SB-14-02	Solid	01/09/18 11:51	01/09/18 14:15
35366985019	SB-14-03	Solid	01/09/18 11:53	01/09/18 14:15
35366985020	SB-14-04	Solid	01/09/18 11:55	01/09/18 14:15
35366985021	SB-15-01	Solid	01/09/18 12:30	01/09/18 14:15
35366985022	SB-15-02	Solid	01/09/18 12:31	01/09/18 14:15
35366985023	SB-15-03	Solid	01/09/18 12:33	01/09/18 14:15
35366985024	SB-15-04	Solid	01/09/18 12:35	01/09/18 14:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35366985001	SB-10-01	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	RAK	1	PASI-O
35366985002	SB-10-02	EPA 6020	CRT	1	PASI-O
		EPA 6020	KPP	1	PASI-O
35366985003	SB-10-03	ASTM D2974-87	RAK	1	PASI-O
		EPA 6020	CRT	1	PASI-O
35366985004	SB-10-04	ASTM D2974-87	RAK	1	PASI-O
		EPA 6020	CRT	1	PASI-O
35366985005	SB-11-01	ASTM D2974-87	RAK	1	PASI-O
		EPA 6020	CRT	1	PASI-O
35366985006	SB-11-02	ASTM D2974-87	RAK	1	PASI-O
		EPA 6020	CRT	1	PASI-O
35366985007	SB-11-03	ASTM D2974-87	RAK	1	PASI-O
		EPA 6020	CRT	1	PASI-O
35366985008	SB-11-04	ASTM D2974-87	RAK	1	PASI-O
		EPA 6020	CRT	1	PASI-O
35366985009	SB-12-01	EPA 6020	KPP	1	PASI-O
		ASTM D2974-87	RAK	1	PASI-O
35366985010	SB-12-02	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	RAK	1	PASI-O
35366985011	SB-12-03	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	RAK	1	PASI-O
35366985012	SB-12-04	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	RAK	1	PASI-O
35366985013	SB-13-01	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	RAK	1	PASI-O
35366985014	SB-13-02	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	RAK	1	PASI-O
35366985015	SB-13-03	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	RAK	1	PASI-O
35366985016	SB-13-04	EPA 6020	CRT	1	PASI-O
		EPA 6020	KPP	1	PASI-O
35366985017	SB-14-01	ASTM D2974-87	RAK	1	PASI-O
		EPA 6020	CRT	1	PASI-O

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SAMPLE ANALYTE COUNT

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35366985018	SB-14-02	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	RAK	1	PASI-O
35366985019	SB-14-03	EPA 6020	CRT	1	PASI-O
		EPA 6020	KPP	1	PASI-O
		ASTM D2974-87	RAK	1	PASI-O
35366985020	SB-14-04	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	RAK	1	PASI-O
35366985021	SB-15-01	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	RAK	1	PASI-O
35366985022	SB-15-02	EPA 6020	CRT	1	PASI-O
		EPA 6020	KPP	1	PASI-O
		ASTM D2974-87	RAK	1	PASI-O
35366985023	SB-15-03	EPA 6020	CRT	1	PASI-O
		EPA 6020	KPP	1	PASI-O
		ASTM D2974-87	RAK	1	PASI-O
35366985024	SB-15-04	EPA 6020	CRT	1	PASI-O
		ASTM D2974-87	RAK	1	PASI-O

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 2995.00/Carolina Club
Pace Project No.: 35366985

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35366985001	SB-10-01					
EPA 6020	Arsenic	23.7	mg/kg	1.3	01/13/18 22:00	
ASTM D2974-87	Percent Moisture	23.6	%	0.10	01/10/18 12:05	J(D6)
35366985002	SB-10-02					
EPA 6020	Arsenic	27.1	mg/kg	1.4	01/13/18 22:12	
EPA 6020	Arsenic	0.071	mg/L	0.0010	01/18/18 09:46	
ASTM D2974-87	Percent Moisture	16.5	%	0.10	01/10/18 12:05	
35366985003	SB-10-03					
EPA 6020	Arsenic	9.0	mg/kg	1.1	01/13/18 22:13	
ASTM D2974-87	Percent Moisture	8.3	%	0.10	01/10/18 12:05	
35366985004	SB-10-04					
EPA 6020	Arsenic	5.9	mg/kg	1.4	01/13/18 22:15	
ASTM D2974-87	Percent Moisture	12.2	%	0.10	01/10/18 12:06	
35366985005	SB-11-01					
EPA 6020	Arsenic	12.1	mg/kg	1.5	01/13/18 22:17	
ASTM D2974-87	Percent Moisture	26.8	%	0.10	01/10/18 12:06	
35366985006	SB-11-02					
EPA 6020	Arsenic	6.6	mg/kg	1.3	01/13/18 22:19	
ASTM D2974-87	Percent Moisture	8.7	%	0.10	01/10/18 12:06	
35366985007	SB-11-03					
EPA 6020	Arsenic	8.2	mg/kg	1.0	01/13/18 22:21	
ASTM D2974-87	Percent Moisture	10.4	%	0.10	01/10/18 12:06	
35366985008	SB-11-04					
EPA 6020	Arsenic	6.2	mg/kg	1.5	01/13/18 22:23	
EPA 6020	Arsenic	0.0056	mg/L	0.0010	01/18/18 09:56	
ASTM D2974-87	Percent Moisture	23.9	%	0.10	01/10/18 12:06	
35366985009	SB-12-01					
EPA 6020	Arsenic	7.6	mg/kg	1.2	01/13/18 22:24	
ASTM D2974-87	Percent Moisture	16.1	%	0.10	01/10/18 12:07	
35366985010	SB-12-02					
EPA 6020	Arsenic	12.3	mg/kg	1.6	01/13/18 22:26	
ASTM D2974-87	Percent Moisture	25.4	%	0.10	01/10/18 12:07	
35366985011	SB-12-03					
ASTM D2974-87	Percent Moisture	26.2	%	0.10	01/10/18 12:07	J(D6)
35366985012	SB-12-04					
EPA 6020	Arsenic	0.68	mg/kg	1.3	01/13/18 22:34	
ASTM D2974-87	Percent Moisture	11.7	%	0.10	01/10/18 12:07	
35366985013	SB-13-01					
EPA 6020	Arsenic	8.1	mg/kg	1.3	01/13/18 22:35	
ASTM D2974-87	Percent Moisture	9.8	%	0.10	01/10/18 12:08	

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SUMMARY OF DETECTION

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35366985014	SB-13-02					
EPA 6020	Arsenic	3.3	mg/kg	1.3	01/13/18 22:37	
ASTM D2974-87	Percent Moisture	20.7	%	0.10	01/10/18 12:08	
35366985015	SB-13-03					
EPA 6020	Arsenic	5.2	mg/kg	1.4	01/13/18 22:39	
ASTM D2974-87	Percent Moisture	12.7	%	0.10	01/10/18 12:08	
35366985016	SB-13-04					
EPA 6020	Arsenic	4.3	mg/kg	1.0	01/13/18 22:41	
EPA 6020	Arsenic	0.012	mg/L	0.0010	01/18/18 09:58	
ASTM D2974-87	Percent Moisture	15.0	%	0.10	01/10/18 12:08	
35366985017	SB-14-01					
EPA 6020	Arsenic	8.1	mg/kg	1.3	01/13/18 22:43	
ASTM D2974-87	Percent Moisture	15.9	%	0.10	01/10/18 12:08	
35366985018	SB-14-02					
EPA 6020	Arsenic	9.7	mg/kg	1.6	01/13/18 22:44	
ASTM D2974-87	Percent Moisture	25.6	%	0.10	01/10/18 12:08	
35366985019	SB-14-03					
EPA 6020	Arsenic	1.5	mg/kg	1.2	01/13/18 22:46	
ASTM D2974-87	Percent Moisture	16.0	%	0.10	01/10/18 12:09	
35366985020	SB-14-04					
ASTM D2974-87	Percent Moisture	13.8	%	0.10	01/10/18 12:09	J(D6)
35366985021	SB-15-01					
EPA 6020	Arsenic	7.3	mg/kg	1.3	01/13/18 21:07	
ASTM D2974-87	Percent Moisture	9.2	%	0.10	01/10/18 12:09	
35366985022	SB-15-02					
EPA 6020	Arsenic	17.4	mg/kg	1.1	01/13/18 21:14	
EPA 6020	Arsenic	0.031	mg/L	0.0010	01/18/18 10:03	
ASTM D2974-87	Percent Moisture	12.3	%	0.10	01/10/18 12:09	
35366985023	SB-15-03					
EPA 6020	Arsenic	1.9	mg/kg	1.3	01/13/18 21:16	
EPA 6020	Arsenic	0.0082	mg/L	0.0010	01/18/18 10:10	
ASTM D2974-87	Percent Moisture	11.2	%	0.10	01/10/18 12:10	
35366985024	SB-15-04					
EPA 6020	Arsenic	4.3	mg/kg	1.5	01/13/18 21:18	
ASTM D2974-87	Percent Moisture	20.0	%	0.10	01/10/18 12:10	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-10-01 **Lab ID: 35366985001** Collected: 01/09/18 09:00 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	23.7	mg/kg	1.3	0.63	20	01/12/18 03:20	01/13/18 22:00	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	23.6	%	0.10	0.10	1		01/10/18 12:05		J(D6)

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-10-02 **Lab ID: 35366985002** Collected: 01/09/18 09:01 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	27.1	mg/kg	1.4	0.71	20	01/12/18 03:20	01/13/18 22:12	7440-38-2	
6020 MET ICP, SPLP									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1312; 01/16/18 16:31 Initial pH: ; Final pH: 5									
Arsenic	0.071	mg/L	0.0010	0.00050	1	01/17/18 21:37	01/18/18 09:46	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	16.5	%	0.10	0.10	1		01/10/18 12:05		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-10-03 **Lab ID: 35366985003** Collected: 01/09/18 09:02 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	9.0	mg/kg	1.1	0.56	20	01/12/18 03:20	01/13/18 22:13	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	8.3	%	0.10	0.10	1		01/10/18 12:05		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-10-04 **Lab ID: 35366985004** Collected: 01/09/18 09:03 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	5.9	mg/kg	1.4	0.70	20	01/12/18 03:20	01/13/18 22:15	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.2	%	0.10	0.10	1		01/10/18 12:06		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-11-01 **Lab ID: 35366985005** Collected: 01/09/18 10:00 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	12.1	mg/kg	1.5	0.73	20	01/12/18 03:20	01/13/18 22:17	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	26.8	%	0.10	0.10	1		01/10/18 12:06		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-11-02 **Lab ID: 35366985006** Collected: 01/09/18 10:01 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	6.6	mg/kg	1.3	0.67	20	01/12/18 03:20	01/13/18 22:19	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	8.7	%	0.10	0.10	1		01/10/18 12:06		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-11-03 **Lab ID: 35366985007** Collected: 01/09/18 10:02 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	8.2	mg/kg	1.0	0.51	20	01/12/18 03:20	01/13/18 22:21	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	10.4	%	0.10	0.10	1		01/10/18 12:06		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-11-04 **Lab ID: 35366985008** Collected: 01/09/18 10:03 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	6.2	mg/kg	1.5	0.74	20	01/12/18 03:20	01/13/18 22:23	7440-38-2	
6020 MET ICP, SPLP									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1312; 01/16/18 16:31 Initial pH: ; Final pH: 6									
Arsenic	0.0056	mg/L	0.0010	0.00050	1	01/17/18 21:37	01/18/18 09:56	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	23.9	%	0.10	0.10	1		01/10/18 12:06		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-12-01 **Lab ID: 35366985009** Collected: 01/09/18 10:45 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	7.6	mg/kg	1.2	0.60	20	01/12/18 03:20	01/13/18 22:24	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	16.1	%	0.10	0.10	1		01/10/18 12:07		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-12-02 **Lab ID: 35366985010** Collected: 01/09/18 10:46 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	12.3	mg/kg	1.6	0.79	20	01/12/18 03:20	01/13/18 22:26	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	25.4	%	0.10	0.10	1		01/10/18 12:07		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-12-03 **Lab ID: 35366985011** Collected: 01/09/18 10:47 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
Arsenic	0.72 U	mg/kg	1.4	0.72	20	01/12/18 03:20	01/13/18 22:32	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	26.2	%	0.10	0.10	1		01/10/18 12:07		J(D6)

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-12-04 **Lab ID: 35366985012** Collected: 01/09/18 10:48 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
Arsenic	0.68 I	mg/kg	1.3	0.65	20	01/12/18 03:20	01/13/18 22:34	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	11.7	%	0.10	0.10	1		01/10/18 12:07		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-13-01 **Lab ID: 35366985013** Collected: 01/09/18 11:20 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	8.1	mg/kg	1.3	0.63	20	01/12/18 03:20	01/13/18 22:35	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	9.8	%	0.10	0.10	1		01/10/18 12:08		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-13-02 **Lab ID: 35366985014** Collected: 01/09/18 11:21 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	3.3	mg/kg	1.3	0.65	20	01/12/18 03:20	01/13/18 22:37	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	20.7	%	0.10	0.10	1		01/10/18 12:08		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-13-03 **Lab ID: 35366985015** Collected: 01/09/18 11:23 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	5.2	mg/kg	1.4	0.68	20	01/12/18 03:20	01/13/18 22:39	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.7	%	0.10	0.10	1		01/10/18 12:08		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-13-04 **Lab ID: 35366985016** Collected: 01/09/18 11:25 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	4.3	mg/kg	1.0	0.52	20	01/12/18 03:20	01/13/18 22:41	7440-38-2	
6020 MET ICP, SPLP									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1312; 01/16/18 16:31 Initial pH: ; Final pH: 6									
Arsenic	0.012	mg/L	0.0010	0.00050	1	01/17/18 21:37	01/18/18 09:58	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	15.0	%	0.10	0.10	1		01/10/18 12:08		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-14-01 **Lab ID: 35366985017** Collected: 01/09/18 11:50 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	8.1	mg/kg	1.3	0.67	20	01/12/18 03:20	01/13/18 22:43	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	15.9	%	0.10	0.10	1		01/10/18 12:08		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-14-02 **Lab ID: 35366985018** Collected: 01/09/18 11:51 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	9.7	mg/kg	1.6	0.81	20	01/12/18 03:20	01/13/18 22:44	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	25.6	%	0.10	0.10	1		01/10/18 12:08		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-14-03 **Lab ID: 35366985019** Collected: 01/09/18 11:53 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	1.5	mg/kg	1.2	0.59	20	01/12/18 03:20	01/13/18 22:46	7440-38-2	
6020 MET ICP, SPLP									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1312; 01/16/18 16:31 Initial pH: ; Final pH: 6									
Arsenic	0.00050 U	mg/L	0.0010	0.00050	1	01/17/18 21:37	01/18/18 10:01	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	16.0	%	0.10	0.10	1		01/10/18 12:09		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-14-04 **Lab ID: 35366985020** Collected: 01/09/18 11:55 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
Arsenic	0.54 U	mg/kg	1.1	0.54	20	01/12/18 03:20	01/13/18 22:48	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	13.8	%	0.10	0.10	1		01/10/18 12:09		J(D6)

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-15-01 **Lab ID: 35366985021** Collected: 01/09/18 12:30 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	7.3	mg/kg	1.3	0.67	20	01/12/18 03:21	01/13/18 21:07	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	9.2	%	0.10	0.10	1		01/10/18 12:09		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-15-02 **Lab ID: 35366985022** Collected: 01/09/18 12:31 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	17.4	mg/kg	1.1	0.56	20	01/12/18 03:21	01/13/18 21:14	7440-38-2	
6020 MET ICP, SPLP									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1312; 01/16/18 16:31 Initial pH: ; Final pH: 5									
Arsenic	0.031	mg/L	0.0010	0.00050	1	01/17/18 21:37	01/18/18 10:03	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.3	%	0.10	0.10	1		01/10/18 12:09		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-15-03 **Lab ID: 35366985023** Collected: 01/09/18 12:33 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Arsenic	1.9	mg/kg	1.3	0.63	20	01/12/18 03:21	01/13/18 21:16	7440-38-2	
6020 MET ICP, SPLP									
Analytical Method: EPA 6020 Preparation Method: EPA 3010									
Leachate Method/Date: EPA 1312; 01/16/18 16:31 Initial pH: ; Final pH: 6									
Arsenic	0.0082	mg/L	0.0010	0.00050	1	01/17/18 21:37	01/18/18 10:10	7440-38-2	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	11.2	%	0.10	0.10	1		01/10/18 12:10		

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Sample: SB-15-04 **Lab ID: 35366985024** Collected: 01/09/18 12:35 Received: 01/09/18 14:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020 Preparation Method: EPA 3050								
Arsenic	4.3	mg/kg	1.5	0.73	20	01/12/18 03:21	01/13/18 21:18	7440-38-2	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	20.0	%	0.10	0.10	1		01/10/18 12:10		

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QUALITY CONTROL DATA

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

QC Batch:	418055	Analysis Method:	EPA 6020
QC Batch Method:	EPA 3050	Analysis Description:	6020 MET SOLID
Associated Lab Samples:	35366985001, 35366985002, 35366985003, 35366985004, 35366985005, 35366985006, 35366985007, 35366985008, 35366985009, 35366985010, 35366985011, 35366985012, 35366985013, 35366985014, 35366985015, 35366985016, 35366985017, 35366985018, 35366985019, 35366985020		

METHOD BLANK:	2278555	Matrix:	Solid
Associated Lab Samples:	35366985001, 35366985002, 35366985003, 35366985004, 35366985005, 35366985006, 35366985007, 35366985008, 35366985009, 35366985010, 35366985011, 35366985012, 35366985013, 35366985014, 35366985015, 35366985016, 35366985017, 35366985018, 35366985019, 35366985020		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	0.51 U	1.0	0.51	01/13/18 21:57	

LABORATORY CONTROL SAMPLE: 2278556

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	21.1	22.5	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:													2278557						2278558
Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual							
Arsenic	mg/kg	23.7	33.8	35.3	54.4	58.3	91	98	75-125	7	20								

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QUALITY CONTROL DATA

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

QC Batch: 418057 Analysis Method: EPA 6020
QC Batch Method: EPA 3050 Analysis Description: 6020 MET SOLID
Associated Lab Samples: 35366985021, 35366985022, 35366985023, 35366985024

METHOD BLANK: 2278563 Matrix: Solid
Associated Lab Samples: 35366985021, 35366985022, 35366985023, 35366985024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	0.55 U	1.1	0.55	01/13/18 21:03	

LABORATORY CONTROL SAMPLE: 2278564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	27	28.2	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2278565 2278566

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	7.3	31.3	27.1	37.7	33.5	97	97	75-125	12	20	

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QUALITY CONTROL DATA

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

QC Batch:	419355	Analysis Method:	EPA 6020
QC Batch Method:	EPA 3010	Analysis Description:	6020 MET SPLP
Associated Lab Samples: 35366985002, 35366985008, 35366985016, 35366985019, 35366985022, 35366985023			

METHOD BLANK:	2281953	Matrix:	Water
Associated Lab Samples: 35366985002, 35366985008, 35366985016, 35366985019, 35366985022, 35366985023			

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	0.00050 U	0.0010	0.00050	01/18/18 09:40	

LABORATORY CONTROL SAMPLE: 2284852						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	.05	0.051	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2284853													2284854		
Parameter	Units	35366985002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual			
Arsenic	mg/L	0.071	.05	.05	0.12	0.12	89	104	75-125	6	20				

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QUALITY CONTROL DATA

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

QC Batch:	417617	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	35366985001, 35366985002, 35366985003, 35366985004, 35366985005, 35366985006, 35366985007, 35366985008, 35366985009, 35366985010, 35366985011, 35366985012, 35366985013, 35366985014, 35366985015, 35366985016, 35366985017, 35366985018, 35366985019, 35366985020, 35366985021, 35366985022, 35366985023, 35366985024		

SAMPLE DUPLICATE: 2275749

Parameter	Units	35366985001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	23.6	18.5	24	5	J(D6)

SAMPLE DUPLICATE: 2275750

Parameter	Units	35366985011 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	26.2	28.2	7	5	J(D6)

SAMPLE DUPLICATE: 2275751

Parameter	Units	35366985020 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.8	14.8	7	5	J(D6)

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QUALIFIERS

Project: 2995.00/Carolina Club
Pace Project No.: 35366985

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.
TNTC - Too Numerous To Count
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

BATCH QUALIFIERS

Batch: 418080

[1] Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

Batch: 418084

[1] Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35366985001	SB-10-01	EPA 3050	418055	EPA 6020	418084
35366985002	SB-10-02	EPA 3050	418055	EPA 6020	418084
35366985003	SB-10-03	EPA 3050	418055	EPA 6020	418084
35366985004	SB-10-04	EPA 3050	418055	EPA 6020	418084
35366985005	SB-11-01	EPA 3050	418055	EPA 6020	418084
35366985006	SB-11-02	EPA 3050	418055	EPA 6020	418084
35366985007	SB-11-03	EPA 3050	418055	EPA 6020	418084
35366985008	SB-11-04	EPA 3050	418055	EPA 6020	418084
35366985009	SB-12-01	EPA 3050	418055	EPA 6020	418084
35366985010	SB-12-02	EPA 3050	418055	EPA 6020	418084
35366985011	SB-12-03	EPA 3050	418055	EPA 6020	418084
35366985012	SB-12-04	EPA 3050	418055	EPA 6020	418084
35366985013	SB-13-01	EPA 3050	418055	EPA 6020	418084
35366985014	SB-13-02	EPA 3050	418055	EPA 6020	418084
35366985015	SB-13-03	EPA 3050	418055	EPA 6020	418084
35366985016	SB-13-04	EPA 3050	418055	EPA 6020	418084
35366985017	SB-14-01	EPA 3050	418055	EPA 6020	418084
35366985018	SB-14-02	EPA 3050	418055	EPA 6020	418084
35366985019	SB-14-03	EPA 3050	418055	EPA 6020	418084
35366985020	SB-14-04	EPA 3050	418055	EPA 6020	418084
35366985021	SB-15-01	EPA 3050	418057	EPA 6020	418080
35366985022	SB-15-02	EPA 3050	418057	EPA 6020	418080
35366985023	SB-15-03	EPA 3050	418057	EPA 6020	418080
35366985024	SB-15-04	EPA 3050	418057	EPA 6020	418080
35366985002	SB-10-02	EPA 3010	419355	EPA 6020	419370
35366985008	SB-11-04	EPA 3010	419355	EPA 6020	419370
35366985016	SB-13-04	EPA 3010	419355	EPA 6020	419370
35366985019	SB-14-03	EPA 3010	419355	EPA 6020	419370
35366985022	SB-15-02	EPA 3010	419355	EPA 6020	419370
35366985023	SB-15-03	EPA 3010	419355	EPA 6020	419370
35366985001	SB-10-01	ASTM D2974-87	417617		
35366985002	SB-10-02	ASTM D2974-87	417617		
35366985003	SB-10-03	ASTM D2974-87	417617		
35366985004	SB-10-04	ASTM D2974-87	417617		
35366985005	SB-11-01	ASTM D2974-87	417617		
35366985006	SB-11-02	ASTM D2974-87	417617		
35366985007	SB-11-03	ASTM D2974-87	417617		
35366985008	SB-11-04	ASTM D2974-87	417617		
35366985009	SB-12-01	ASTM D2974-87	417617		
35366985010	SB-12-02	ASTM D2974-87	417617		
35366985011	SB-12-03	ASTM D2974-87	417617		
35366985012	SB-12-04	ASTM D2974-87	417617		
35366985013	SB-13-01	ASTM D2974-87	417617		
35366985014	SB-13-02	ASTM D2974-87	417617		
35366985015	SB-13-03	ASTM D2974-87	417617		
35366985016	SB-13-04	ASTM D2974-87	417617		
35366985017	SB-14-01	ASTM D2974-87	417617		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2995.00/Carolina Club

Pace Project No.: 35366985

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35366985018	SB-14-02	ASTM D2974-87	417617		
35366985019	SB-14-03	ASTM D2974-87	417617		
35366985020	SB-14-04	ASTM D2974-87	417617		
35366985021	SB-15-01	ASTM D2974-87	417617		
35366985022	SB-15-02	ASTM D2974-87	417617		
35366985023	SB-15-03	ASTM D2974-87	417617		
35366985024	SB-15-04	ASTM D2974-87	417617		

REPORT OF LABORATORY ANALYSIS

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W0#: 35366985

Y RECORD

Quote: _____

Page 1 of 3

Company Name: WGI PO# _____

Address: 2035 Vista Pkwy

City: West Palm Beach State: FL Zip: 33411

Alt#: _____ Fax# _____

email: John.Abbott@wgi.com Phone: 561-214-5034

Project Name: Carolina Club Proj # 2995.00

Sampler Signature: Will Brown Circle One Event: Daily Weekly Monthly
Quantity: _____ Semi-Annual Annual N/A

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code*	Field Filtered	Integrity OK(Y/N)	Total # of containers
1	SB-10-01	1/9/18	9:00	SO			1
2	SB-10-02		9:01				1
3	SB-10-03		9:02				1
4	SB-10-04		9:03				1
5	SB-11-01		10:00				1
6	SB-11-02		10:01				1
7	SB-11-03		10:02				1
8	SB-11-04		10:03				1
9	SB-12-01		10:45				1
10	SB-12-02		10:46				1

Parameters
As 6020
As SPLP

LAB ANALYSIS

EXAMPLE
Diss. Lead 6010

Container Type Codes	
AV Amber Vial	ES Evaporate Sample
CV Clear Vial	PLC Plastic container
P Plastic	PLJ Plastic Jar
AL Amber Litter	Z Ziploc bag
CL Clear Litter	TD Tedlar bag
AP Amber Plastic	WP Whirl pak
AG Amber Glass	G Gallon Jug
SJ Soil Jar	TC Terra-core
Other _____	Other _____
Preparedness Vial	
Size(s): 202, 402, 602, 1602, 3202 or 1L, other _____	
Example: 402P = 402 Plastic, 602S = 602 Soil Jar	
Matrix Codes	
SD Solid Waste	OL Oil
GW Ground Water	SL Sludge
EFF Effluent	SO Soil Sediment
AFW Analyte Free H2O	AQ Aqueous
WW Waste Water	NA Nonaqueous
DW Drinking Water	PE Petroleum
SW Surface Water	O Other (Please specify)
ML Misc. Liquid	
Preservative Type Codes	
A. None	E. HCL
B. HNO3	F. MeOH
C. H2SO4	G. Na2S2O3
D. NaOH	H. NaHSO4
	I. Ice
	J. MCAA
	K. Zn Acetate
	O. Other

REMARKS

Rush 3-DAY

✓

Item	Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time	Required State Certification
1	Will Brown	WGI	1/9/2018	14:15	Par	1/9/18	1415		FL GA SC NC NJ PA LA TX IL
2									
3									
4									

Short Hold	Circle QA/QC Report Level	EDD (Fees May Apply)	COC Condition	Required State Certification
Y ☒ N ☐	1 2 3 4 CLP AFCEE QAPP Other	ADAPT SEDD ERPIMS TSV CSV Other	OK Incomplete	FL GA SC NC NJ PA LA TX IL

Coolers #s - Temp °C	Lab Use Only
1 2 3 4 5	Non-Conformance Found? YES NO N/A
	Samples IN/OUT upon arrival?
	Received on Wet Ice?
	Proper Preservation Indicated?
	Received within holding time?
	Clearly seals intact?
	Volatiles rec'd without headspace?
	Proper Containers Used?

CHAIN OF CUSTODY RECORD

LAB W.O. # _____

Quote: _____

Page 2 of 3

Company Name: WGI		PO#	
Address: 2035 Vista Pkwy			
City: West Palm Beach		State: FL Zip: 33411	
Attn: _____		Fax#	
email: John.Abbott@wgi.com		Phone: 561-214-5034	
Project Name: Carolina Club		Proj # 2995.00	
Sampler Signature: <i>Will [Signature]</i>		Circle One Event: Daily Weekly Monthly Semi-Annual Annual N/A	

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code*	Field Filtered	Integrity OK(Y/N)	Total # of containers	Parameters	
								pH	TRC
1	SB-12-03	1/9/18	10:47	SD			1	As 6020	As SPLP
2	SB-12-04		10:48				1		
3	SB-13-01		11:20				1		
4	SB-13-02		11:21				1		
5	SB-13-03		11:23				1		
6	SB-13-04		11:25				1		
7	SB-14-01		11:50				1		
8	SB-14-02		11:51				1		
9	SB-14-03		11:53				1		
10	SB-14-04		11:55				1		

Item	Relinquished by	Affiliation	Date	Time	Circle QA/QC Report Level				EDD (Fees May Apply)	COC Condition	Required State Certification
					1	2	3	4			
1	<i>Will [Signature]</i>	WGI	1/9/2018	14:15							
2											
3											
4											

Lab Use Only	Coolers #s - Temp °C				
	1	2	3	4	5
Non-Conformance Found?					
Samples INTACT upon arrival?					
Received on Wet Ice?					
Proper Preservatives Indicated?					
Received within holding time?					
Custody seals intact?					
Vials not used without headspace?					
Proper Containers Used?					

Container Type Codes	
AV Amber Vial	ES Encore Sampler
CV Clear Vial	PPV Prepressured vial
PL Plastic Jar	PLC Plastic container
AL Amber Jar	PLJ Plastic Jar
CL Clear Jar	ZB Ziploc bag
AP Amber Plastic	WB White bag
AG Amber Glass	WP White jar
SJ Soil Jar	GC Gallon Jug
Other _____	TC Terra-core

Matrix Codes	
SD Solid Waste	OL Oil
GW Ground Water	SO Solids
EFF Effluent	SA Sediment
AFW Analyte Free H2O	AO Airborne
DW Drinking Water	NA Nonaqueous
SW Surface Water	PE Petroleum
ML Misc. Liquid	O Other (Please specify)

Preservative Type Codes	
A. None	E. HCL
B. HNO3	F. MeOH
C. H2SO4	G. Na2S2O3
D. NaOH	H. NaHSO4
	I. Ice
	J. MCAA
	K. Zn Acetate
	O. Other

REMARKS	
Rush 3-DAY	

CHAIN OF CUSTODY RECORD

LAB W.O. # _____

Quote: _____

Page 3 of 3

PO#

LAB ANALYSIS

Company Name: W&T
Address: 2035 Vista Pkwy

City: West Palm Beach State: FL Zip: 33411

Alt#: _____ Fax#: _____

email: John.Abbott@wmg.com Phone: 561-214-5034

Project Name: Carolina Gub Proj # 2995.00

Sampler Signature: Will [Signature] Circle One Event: Daily Weekly Monthly
Annually Semi-Annual N/A

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code	Field Filtered	Integrity OK(Y/N)	Total # of containers
----------	-----------	--------------	--------------	-------------	----------------	-------------------	-----------------------

Parameters

As 6020
As SPLP

EXAMPLE
Diss. Lead 6010

of Containers
Size/Type

1
16ozP

Matrix Codes

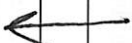
SD Solid Waste
GW Ground Water
EFF Effluent
ARW Arroyo Water
DWW Drainage Water
SWW Surface Water
ML Misc. Liquid
OL Oil
SL Sludge
SO Soil Sediment
AQ Aqueous
NA Nonaqueous
PE Petroleum
O Other (Please specify)

Preservative Type Codes

A. None E. HCL I. Ice
B. HNO3 F. MeOH J. MCAA
C. H2SO4 G. Na2S2O3 K. Zn Acetate
D. NaOH H. NaHSO4 O. Other

REMARKS

3-DAY RUSH



Item	Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time	Coolers #'s - Temp °C
1	<u>Will [Signature]</u>	<u>W&T</u>	<u>1/9/18</u>	<u>14:15</u>	<u>[Signature]</u>	<u>Face</u>	<u>1/9/18</u>	<u>1415</u>	
2									
3									
4									
5									
6									
7									
8									
9									
10									

Container Type Codes
AV Amber Vial CV Clear Vial P Plastic AL Amber Litter CL Clear Litter AP Amber Plastic AG Amber Glass SJ Soil Jar PPV Prepreserved vial ES Encore Sampler PPV Prepreserved vial PLC Plastic container PLJ Plastic Jar Z Ziploc bag TB Tied bag WP Whirl pack G Gallon Jug TO Terra-code

Size(s): 2oz, 4oz, 8oz, 16oz, 32oz or 1L, other _____
40ml, 500ml, 250ml, 125ml
Example: 4ozP = 4oz Plastic, 8ozSJ = 8oz Soil Jar



Document Name:
Sample Condition Upon Receipt Form
Document No.:

Document Revised:
August 2, 2017
Issuing Authority:
Pace Florida Quality Office

WO#: 35366985

(SCUR)

PM: CTR

Due Date: 01/12/18

Project # CLIENT: 36-WANGRO

Project Manager

Client:

Date and Initials of person:

Examining contents:

Label:

Deliver:

pH:

Thermometer Used:

T-324

Date:

1/9/18

Time:

14:15

Initials:

State of Origin:

Cooler #1 Temp. °C 10.8 (Visual) 0.0 (Correction Factor) 20.8 (Actual)

Cooler #2 Temp. °C (Visual) (Correction Factor) (Actual)

Cooler #3 Temp. °C (Visual) (Correction Factor) (Actual)

Cooler #4 Temp. °C (Visual) (Correction Factor) (Actual)

Cooler #5 Temp. °C (Visual) (Correction Factor) (Actual)

Cooler #6 Temp. °C (Visual) (Correction Factor) (Actual)

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority

☐ Other

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking #

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Ice: Wet Blue Dry None

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Samples shorted to lab (If Yes, complete) Shorted Date: Shorted Time: Qty:

Comments:

Chain of Custody Present	☒ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☒ Yes ☒ No ☐ N/A	10/1/9/18
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☐ Yes ☐ No ☒ N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
All Containers needing preservation are found to be in compliance with EPA recommendation:	☐ Yes ☐ No ☒ N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	☐ Yes ☐ No ☒ N/A	
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	

Client Notification/ Resolution:

Person Contacted:

Date/Time:

Comments/ Resolution (use back for additional comments):

Project Manager Review:

Date:

January 15, 2018

John Abbott
Wantman Group
2035 Vista Parkway
West Palm Beach, FL 33411

RE: Project: 2995.00/Carolina Club
Pace Project No.: 35367721

Dear John Abbott:

Enclosed are the analytical results for sample(s) received by the laboratory on January 11, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC 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,



Christina Raschke
christina.raschke@pacelabs.com
(954)582-4300
Project Manager

Enclosures

cc: William Lorentzen, Wantman Group



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2995.00/Carolina Club

Pace Project No.: 35367721

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
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

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
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
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2995.00/Carolina Club

Pace Project No.: 35367721

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35367721001	TMW-01	Water	01/11/18 14:48	01/11/18 18:45
35367721002	TMW-02	Water	01/11/18 11:37	01/11/18 18:45
35367721003	TMW-03	Water	01/11/18 16:37	01/11/18 18:45
35367721004	TMW-04	Water	01/11/18 18:08	01/11/18 18:45

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SAMPLE ANALYTE COUNT

Project: 2995.00/Carolina Club

Pace Project No.: 35367721

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35367721001	TMW-01	EPA 6020	LEC	1	PASI-O
35367721002	TMW-02	EPA 6020	KPP	1	PASI-O
35367721003	TMW-03	EPA 6020	KPP	1	PASI-O
35367721004	TMW-04	EPA 6020	KPP	1	PASI-O

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SUMMARY OF DETECTION

Project: 2995.00/Carolina Club

Pace Project No.: 35367721

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
35367721001	TMW-01					
EPA 6020	Arsenic	2.3	ug/L	1.0	01/15/18 12:19	
35367721002	TMW-02					
EPA 6020	Arsenic	0.57	I ug/L	1.0	01/12/18 17:22	
35367721003	TMW-03					
EPA 6020	Arsenic	23.6	ug/L	1.0	01/12/18 17:24	
35367721004	TMW-04					
EPA 6020	Arsenic	13.4	ug/L	1.0	01/12/18 17:26	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35367721

Sample: TMW-01		Lab ID: 35367721001		Collected: 01/11/18 14:48		Received: 01/11/18 18:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Arsenic	2.3	ug/L	1.0	0.50	1	01/12/18 09:53	01/15/18 12:19	7440-38-2	

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35367721

Sample: TMW-02		Lab ID: 35367721002		Collected: 01/11/18 11:37		Received: 01/11/18 18:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Arsenic	0.57 I	ug/L	1.0	0.50	1	01/12/18 09:53	01/12/18 17:22	7440-38-2	

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35367721

Sample: TMW-03		Lab ID: 35367721003		Collected: 01/11/18 16:37		Received: 01/11/18 18:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Arsenic	23.6	ug/L	1.0	0.50	1	01/12/18 09:53	01/12/18 17:24	7440-38-2	

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35367721

Sample: TMW-04		Lab ID: 35367721004		Collected: 01/11/18 18:08		Received: 01/11/18 18:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Arsenic	13.4	ug/L	1.0	0.50	1	01/12/18 09:53	01/12/18 17:26	7440-38-2	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2995.00/Carolina Club

Pace Project No.: 35367721

QC Batch: 418125 Analysis Method: EPA 6020
QC Batch Method: EPA 3010 Analysis Description: 6020 MET
Associated Lab Samples: 35367721001, 35367721002, 35367721003, 35367721004

METHOD BLANK: 2278840 Matrix: Water
Associated Lab Samples: 35367721001, 35367721002, 35367721003, 35367721004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	0.50 U	1.0	0.50	01/15/18 12:14	

LABORATORY CONTROL SAMPLE: 2278841

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	50	53.4	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2278842 2278843

Parameter	Units	35367721001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	2.3	50	50	53.0	52.9	102	101	75-125	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

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QUALIFIERS

Project: 2995.00/Carolina Club

Pace Project No.: 35367721

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.

TNTC - Too Numerous To Count

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

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

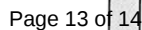
Project: 2995.00/Carolina Club

Pace Project No.: 35367721

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35367721001	TMW-01	EPA 3010	418125	EPA 6020	418200
35367721002	TMW-02	EPA 3010	418125	EPA 6020	418200
35367721003	TMW-03	EPA 3010	418125	EPA 6020	418200
35367721004	TMW-04	EPA 3010	418125	EPA 6020	418200

REPORT OF LABORATORY ANALYSIS

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Container Type Codes		
AV	Amber Vial	ES
CV	Clear Vial	EV
P	Plastic	PLC
AL	Amber Luer	PLJ
CL	Clear Luer	PZ
AP	Amber Plastic	TP
AG	Amber Glass	WB
SJ	Soil Jar	WH
Other		Gallon Jar
PPV	Preapproved vial	TC
	Size(s): 2oz, 4oz, 8oz, 16oz, 32oz or 1L, other	
	Alt: 90mm Depth, 125mm	
Example:	402P = 4oz Plastic, 402ES = 8oz Soil Jar	

Page 13 of 14

Matrix Codes		
SD	Solid Waste	OL Oil
GW	Ground Water	SL Sludge
EFF	Effluent	SO Soil Sediment
AFW	Aerably Free H ₂ O	AQ Aqueous
WW	Waste Water	NA Nontoxic
DW	Drinking Water	PE Petroleum
SW	Surface Water	O Other
ML	Misc. Liquid	(Phases specify)

3-DAY RUSH

3-DAY RUSH

↓

Coolers #s - Temp °C
1 0 0 4 2

Lab Use Only	YES	NO	N/A
1			
2			
3			
4			
5			

Non-Conformance Found? Samples INTACT upon arrival?	Yes	No
_____	_____	_____
_____	_____	_____

Received on Wet Ice?	Proper Preservatives Indicated?	Received within holding time?
_____	_____	_____
_____	_____	_____
_____	_____	_____

Recovered without holding time?	Custody seals intact?	Violates rec'd without headspace?
☐	☐	☐
☐	☐	☐
☐	☐	☐
☐	☐	☐

C.O.C. Serial # 1 3 1 7 1 2

#131712



Document Name:
Sample Condition Upon Receipt Form

Document Revised:
August 2, 2017
Issuing Authority:
Pace Florida Quality Office

Document No.:
WO# : 35367721

SCUR)

Project #
Project Manager:
Client:

PM: CTR Due Date: 01/14/18
CLIENT: 36-WANGRO

Date and Initials of person:
Examining contents: _____
Label: _____
Deliver: _____
pH: _____

Thermometer Used: T-324

Date: 1/11/18

Time: 1845

Initials: [Signature]

State of Origin: _____

Cooler #1 Temp. °C 4.7 (Visual) 0.0 (Correction Factor) 4.7 (Actual)

Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace

☐ Other _____

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground

☐ International Priority

☐ Other _____

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No

Seals intact: ☐ Yes ☒ No

Ice: Wet Blue Dry None

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Samples shorted to lab (If Yes, complete)

Shorted Date: _____

Shorted Time: _____

Qty: _____

Comments:

Chain of Custody Present	☒ Yes ☐ No ☐ N/A	
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☒ Yes ☐ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☒ Yes ☐ No ☐ N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
All Containers needing preservation are found to be in compliance with EPA recommendation:	☒ Yes ☐ No ☐ N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	☐ Yes ☐ No ☒ N/A	
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	

Client Notification/ Resolution:

Person Contacted: _____

Date/Time: _____

Comments/ Resolution (use back for additional comments): _____

Project Manager Review: _____

Date: _____

January 16, 2018

John Abbott
Wantman Group
2035 Vista Parkway
West Palm Beach, FL 33411

RE: Project: 2995.00/Carolina Club
Pace Project No.: 35367722

Dear John Abbott:

Enclosed are the analytical results for sample(s) received by the laboratory on January 11, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC 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,



Christina Raschke
christina.raschke@pacelabs.com
(954)582-4300
Project Manager

Enclosures

cc: William Lorentzen, Wantman Group



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2995.00/Carolina Club

Pace Project No.: 35367722

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
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

Nebraska Certification: NE-OS-28-14
Nevada Certification: FL NELAC Reciprocity
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
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
Wyoming Certification: FL NELAC Reciprocity
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2995.00/Carolina Club

Pace Project No.: 35367722

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35367722001	TMW-01	Water	01/11/18 14:48	01/11/18 18:45
35367722002	TMW-02	Water	01/11/18 11:37	01/11/18 18:45
35367722003	TMW-03	Water	01/11/18 16:38	01/11/18 18:45
35367722004	TMW-04	Water	01/11/18 18:08	01/11/18 18:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2995.00/Carolina Club

Pace Project No.: 35367722

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35367722001	TMW-01	EPA 8081	BP1	3	PASI-O
35367722002	TMW-02	EPA 8081	BP1	3	PASI-O
35367722003	TMW-03	EPA 8081	BP1	3	PASI-O
35367722004	TMW-04	EPA 8081	BP1	3	PASI-O

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35367722

Sample: TMW-01		Lab ID: 35367722001		Collected: 01/11/18 14:48		Received: 01/11/18 18:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides Analytical Method: EPA 8081 Preparation Method: EPA 3510									
Dieldrin	0.0019 U	ug/L	0.0096	0.0019	1	01/14/18 10:55	01/15/18 15:54	60-57-1	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	27-124		1	01/14/18 10:55	01/15/18 15:54	877-09-8	
Decachlorobiphenyl (S)	90	%	10-132		1	01/14/18 10:55	01/15/18 15:54	2051-24-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35367722

Sample: TMW-02		Lab ID: 35367722002		Collected: 01/11/18 11:37		Received: 01/11/18 18:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides		Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Dieldrin	0.0019 U	ug/L	0.0097	0.0019	1	01/14/18 10:55	01/15/18 16:16	60-57-1	
Surrogates									
Tetrachloro-m-xylene (S)	83	%	27-124		1	01/14/18 10:55	01/15/18 16:16	877-09-8	
Decachlorobiphenyl (S)	77	%	10-132		1	01/14/18 10:55	01/15/18 16:16	2051-24-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35367722

Sample: TMW-03		Lab ID: 35367722003		Collected: 01/11/18 16:38		Received: 01/11/18 18:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides Analytical Method: EPA 8081 Preparation Method: EPA 3510									
Dieldrin	0.0019 U	ug/L	0.0096	0.0019	1	01/14/18 10:55	01/15/18 16:39	60-57-1	
Surrogates									
Tetrachloro-m-xylene (S)	79	%	27-124		1	01/14/18 10:55	01/15/18 16:39	877-09-8	
Decachlorobiphenyl (S)	85	%	10-132		1	01/14/18 10:55	01/15/18 16:39	2051-24-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2995.00/Carolina Club

Pace Project No.: 35367722

Sample: TMW-04		Lab ID: 35367722004		Collected: 01/11/18 18:08		Received: 01/11/18 18:45		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8081 GCS Pesticides		Analytical Method: EPA 8081 Preparation Method: EPA 3510							
Dieldrin	0.0019 U	ug/L	0.0095	0.0019	1	01/14/18 10:55	01/15/18 17:01	60-57-1	
Surrogates									
Tetrachloro-m-xylene (S)	89	%	27-124		1	01/14/18 10:55	01/15/18 17:01	877-09-8	
Decachlorobiphenyl (S)	98	%	10-132		1	01/14/18 10:55	01/15/18 17:01	2051-24-3	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2995.00/Carolina Club

Pace Project No.: 35367722

QC Batch: 418248 Analysis Method: EPA 8081
QC Batch Method: EPA 3510 Analysis Description: 8081 GCS Pesticides
Associated Lab Samples: 35367722001, 35367722002, 35367722003, 35367722004

METHOD BLANK: 2279363 Matrix: Water
Associated Lab Samples: 35367722001, 35367722002, 35367722003, 35367722004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Dieldrin	ug/L	0.0020 U	0.010	0.0020	01/15/18 14:26	
Decachlorobiphenyl (S)	%	101	10-132		01/15/18 14:26	
Tetrachloro-m-xylene (S)	%	83	27-124		01/15/18 14:26	

LABORATORY CONTROL SAMPLE & LCSD: 2279364

2280702

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Dieldrin	ug/L	.5	0.59	0.57	118	115	66-128	3	40	
Decachlorobiphenyl (S)	%				102	91	10-132			
Tetrachloro-m-xylene (S)	%				83	84	27-124			

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

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QUALIFIERS

Project: 2995.00/Carolina Club

Pace Project No.: 35367722

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.

TNTC - Too Numerous To Count

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

BATCH QUALIFIERS

Batch: 418556

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

U Compound was analyzed for but not detected.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2995.00/Carolina Club

Pace Project No.: 35367722

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35367722001	TMW-01	EPA 3510	418248	EPA 8081	418556
35367722002	TMW-02	EPA 3510	418248	EPA 8081	418556
35367722003	TMW-03	EPA 3510	418248	EPA 8081	418556
35367722004	TMW-04	EPA 3510	418248	EPA 8081	418556

REPORT OF LABORATORY ANALYSIS

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MO#: 35367722

Y RECORD

Quote: _____ Page 1 of 1

Company Name: WGI PO#

Address: 2035 Vista Parkway

City: West Palm Beach State: FL Zip: 33411

Alt: Fax#

email: John.Abbott@wgi.com Phone: 561-214-5034

Project Name: Carolina Club Proj # 2995.00

Sampler Signature: Will Abbott Circle One Event: Daily Weekly Monthly

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code*	Field Filtered	Integrity OK(Y/N)	Total # of containers
----------	-----------	--------------	--------------	--------------	----------------	-------------------	-----------------------

Parameters

Dieldrin

LAB ANALYSIS

Container Type Codes	
AV Amber Vial	ES Enviro Sampler
CV Clear Vial	PPV Preperformed vial
P Plastic	PLC Plastic container
AL Amber Litter	PLJ Plastic Jar
CL Clear Litter	Z Ziploc bag
AP Amber Plastic	TB Test bag
AG Amber Glass	WP Whirl pak
SJ Soil Jar	G Gallon Jug
Other	TC Terra-core

Example: 4oz Plastic, 8oz Soil Jar

Matrix Codes

SD Solid Waste	OL Oil
GW Ground Water	SL Sludge
EFF Effluent	SO Soil Sediment
AFW Analyte Free H2O	AQ Aqueous
WW Waste Water	NA Nonaqueous
DW Drinking Water	PE Petroleum
SW Surface Water	O Other (Please specify)
ML Misc. Liquid	

Preservative Type Codes

A. None	E. HCL	I. Ice
B. HNO3	F. MeOH	J. MCAA
C. H2SO4	G. Na2S2O3	K. Zn Acetate
D. NaOH	H. NaHSO4	O. Other

REMARKS

3-DAY RUSH

Item	Relinquished by	Affiliation	Date	Time	Received	Affiliation	Date	Time	Coolers #s - Temp °C
1	Will Abbott	WGI	1/11/18	18:45			1/11/18	1845	
2									
3									
4									
5									
6									
7									
8									
9									
10									

Y	N	Today	1D	2D	3D	Short Hold	Circle QA/QC Report Level	EDD (Fees May Apply)	COC Condition	Required State Certification

Lab Use Only	
Non-Conformance Found?	YES NO N/A
Samples IN/ACT upon arrival?	
Received on Wet Ice?	
Proper Preservatives Indicated?	
Received within holding time?	
Custody seals intact?	
Vials/containers need without headspace?	
Proper Containers Used?	

	Document Name:	Document Revised:
	Sample Condition Upon Receipt Form	August 2, 2017
	Document No.: F-FL-C-007 rev. 12	Issuing Authority: Pace Florida Quality Office

WO#: 35367722

(R)

Project #
Project Manager:
Client:

PM: CTR **Due Date: 01/14/18**
CLIENT: 36-WANGRO

Date and Initials of person:

Examining contents:
Label:
Deliver:
pH:

Thermometer Used: 9-324 Date: 1/11/18 Time: 1845 Initials: [Signature]

State of Origin: _____

Cooler #1 Temp. °C 4.7 (Visual) 0.0 (Correction Factor) 4.7 (Actual)
Cooler #2 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
Cooler #3 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
Cooler #4 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
Cooler #5 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)
Cooler #6 Temp. °C _____ (Visual) _____ (Correction Factor) _____ (Actual)

☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun
☐ Samples on ice, cooling process has begun

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other _____

Shipping Method: ☐ First Overnight ☐ Priority Overnight ☐ Standard Overnight ☐ Ground ☐ International Priority
☐ Other _____

Billing: ☐ Recipient ☐ Sender ☐ Third Party ☐ Credit Card ☐ Unknown

Tracking # _____

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No Ice: Wet Blue Dry None

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Samples shorted to lab (If Yes, complete) Shorted Date: _____ Shorted Time: _____ Qty: _____

Comments:

Chain of Custody Present	☒ Yes ☐ No ☐ N/A	Preservation Information: Preservative: _____ Lot #/Trace #: _____ Date: _____ Time: _____ Initials: _____
Chain of Custody Filled Out	☒ Yes ☐ No ☐ N/A	
Relinquished Signature & Sampler Name COC	☒ Yes ☐ No ☐ N/A	
Samples Arrived within Hold Time	☒ Yes ☐ No ☐ N/A	
Rush TAT requested on COC	☒ Yes ☐ No ☐ N/A	
Sufficient Volume	☒ Yes ☐ No ☐ N/A	
Correct Containers Used	☒ Yes ☐ No ☐ N/A	
Containers Intact	☒ Yes ☐ No ☐ N/A	
Sample Labels match COC (sample IDs & date/time of collection)	☒ Yes ☐ No ☐ N/A	
All containers needing acid/base preservation have been checked.	☐ Yes ☐ No ☒ N/A	
All Containers needing preservation are found to be in compliance with EPA recommendation:	☐ Yes ☐ No ☒ N/A	
Exceptions: VOA, Coliform, TOC, O&G, Carbamates		
Headspace in VOA Vials? (>6mm):	☐ Yes ☐ No ☒ N/A	
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments): _____

Project Manager Review: _____

Date: _____