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June 21, 2019

Mr. Steve Tafuni  
Southwest District Office  
Florida Department of Environmental Protection  
13051 N. Telecom Parkway  
Temple Terrace, FL 33637-0926

Re: **Review of Semi-Annual Sampling Results**  
**First Half 2019 Sampling Event**  
**Hardee County Landfill**  
**WACS Facility ID No. SWD/25/40612**  
**Permit No. 38414-016-SO/01**

Dear Mr. Tafuni:

On behalf of the Hardee County Solid Waste Department, Atkins presents this review of the results of the first half of 2019 sampling event for the facility referenced above. This document is designed to comply with the requirements of Appendix 3-Water Quality Monitoring Plan, included with the facility's operation permit, and was compiled in general accordance with the guidelines promulgated in Chapter 62-701.510(9)(a) of the Florida Administrative Code (FAC).

## **BACKGROUND**

The Hardee County Solid Waste Disposal Facility is an active Class I landfill, which encompasses approximately 100 acres of land at 685 Airport Road in Hardee County, Florida. In November 2013, the County received a construction permit (38414-015-SC/01) for Phase II Section II Construction. Phase II Section II is located along the west side of the current waste placement area. Also in November 2013, the County received an operation permit associated with the Phase II Sections I & II operation. In 2014, the County completed construction of the waste cell for Phase II Section II. This required abandonment of two existing monitoring wells, abandonment of multiple piezometers, and installation of two new monitoring wells. According to the facility's operating permit (38414-016-SO/01), the water quality monitoring network is designed to monitor the groundwater in the surficial aquifer and the surface water.

The groundwater monitoring network includes eight monitoring wells, which are designated MW-1, MW-2, MW-4, MW-10R, MW-11, MW-12R, MW-13, and MW-14. The facility's permit designates MW-1 and MW-4 as background wells and the other wells as detection wells. Item 3 of Appendix 3-Water Quality Monitoring Plan lists the monitoring wells and piezometers applicable to the facility's current operation permit.

There are two other monitoring wells, MW-6 and MW-7, which are designated by the permit as piezometers, along with 12 other piezometers. Please note that the following former piezometers have been abandoned and are no longer included in the operating permit: PZ-1, PZ-2, PZ-3, PZ-4, PZ-5, PZ-6, PZ-9, PZ-10, PZ-15, and PZ-16. The layout of the site is presented in **Figure 1**.

Item 4 of Appendix 3-Water Quality Monitoring Plan of the facility's operation permit specifies that groundwater samples shall be collected from the monitoring wells on a semi-annual basis. The groundwater samples are analyzed for the analytes listed on the 40 Code of Federal Regulations (CFR) Part 258, Appendix I, as well as for total ammonia, iron, chlorides, mercury, nitrate, sodium, and total dissolved solids (TDS). These analytes are also listed in Item 4 of Appendix 3 of the facility's operation permit.

Item 8 of Appendix 3-Water Quality Monitoring Plan of the facility's operation permit calls for the collection of a surface water sample from one location, which is designated SW-2. The surface water samples are normally collected during both semi-annual sampling events during the year if sufficient water is present.

The groundwater and surface water sampling points are illustrated in **Figure 1**.

### **FIRST HALF 2019 SAMPLING EVENT**

The first half of 2019 sampling event was conducted on May 14 and 15, 2019. Groundwater samples and one surface water sample were collected during this event. The groundwater and surface water samples were collected in general accordance with the Florida Department of Environmental Protection (FDEP) Standard Operating Procedure for Field Activities (SOP 001/01). Sample collection was performed by Atkins personnel, and analysis was performed by Flowers Chemical Laboratories, Inc. (FCL). FCL is a NELAC-certified laboratory. A FDEP Water Quality Monitoring Certification form for the sampling event is provided in **Attachment A**.

### **Sample Collection Methodology**

Prior to sampling the monitoring wells, each well was purged with a peristaltic pump using the "low-flow" method. A minimum equivalent of one to three well volumes was purged from each well prior to sample collection. Temperature, pH, conductivity, dissolved oxygen (DO), and turbidity measurements were monitored and recorded throughout the purging process to ensure that representative water samples were collected. The groundwater samples were given identifiers which corresponded to the well of origin. Depth-to-groundwater measurements were made from the top-of-casing (TOC) at each monitoring well prior to initiating the purging process. Water level readings were also made at the piezometers listed in the permit. The water level measurements were subtracted from the TOC elevations to determine the elevation of the water table at each well and piezometer. The TOC elevations are referenced in feet above the National Geodetic Vertical Datum (NGVD). The groundwater sampling logs and field equipment calibration logs are provided in **Attachment B**.

All of the samples were placed in laboratory-prepared containers, placed on ice, and transferred to FCL for analysis of the analytes listed in the applicable sections of the facility's operation permit.

## **FIRST HALF 2019 SAMPLING EVENT RESULTS**

### **Groundwater Flow Pattern**

Depth to groundwater measurements were collected at the eight monitoring wells and at 14 piezometers during this sampling event. The groundwater level elevation data from this event are presented in **Table 1**. The groundwater elevation data were plotted and contoured to generate the groundwater elevation contour map presented in **Figure 2**. Piezometer P-18 was dry. The data indicated that the groundwater in the surficial aquifer beneath the landfill was flowing in a southerly direction at the time of this sampling event. The groundwater also appeared to be flowing to the southeast, toward a wetland area east of the landfill. The water table gradient measured approximately 0.0018 feet per foot beneath the site (as measured between well MW-1 and well MW-10R). Water level elevation measurements were also performed at two staff gauges located in ponds on the site (SG-1 and SG-2).

### **Sampling Results**

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

#### Groundwater Analytical Results

There were numerous inorganic analytes detected in the groundwater samples collected and analyzed during this sampling event. No volatile organic compounds were detected in any of the groundwater samples. The inorganic analyte detections included all of those which are typically part of the analytical program except antimony, beryllium, cadmium, cobalt, lead, mercury, selenium, silver, and thallium. At least one inorganic analyte was detected at every well in the monitoring network.

The concentrations of all of the analytes that were detected in the groundwater were compared to their respective Maximum Contaminant Level (MCL) or Secondary Drinking Water Standard (SDWS) in accordance with the Florida statutes. The MCLs and SDWSs for Drinking Water Standards, Monitoring, and Reporting are promulgated by Chapter 62-550 FAC. Not every parameter has an MCL or SDWS. There were three analytes detected at concentrations that did not comply with their standards – pH, iron, and arsenic. Iron and pH have SDWS criteria, while the criteria for arsenic is provided as an MCL in Chapter 62-550 of the FAC. A description of the detection patterns with these three analytes is described below.

- pH - The standard for pH is any value within the range of 6.5 to 8.5 Standard Units (SU). The pH values at four of the eight wells were less than 6.5 SU, and the pH measured as low as 4.79 SU at well MW-1. The pH values at wells MW-2, MW-10R, MW-12R, and MW-14 were within the standard range. The pH values at both of the background wells,

MW-1 (with a pH of 4.79 SU) and MW-4 (with a pH of 6.33 SU), were lower than the standard range.

- Iron - The standard for iron is 0.3 milligrams per liter (mg/L). The iron concentrations in the samples collected at five of the eight monitoring wells exceeded the standard. The iron concentrations were less than the standard at MW-11, MW-12R, and MW-14. The iron concentrations at both of the background wells (MW-1 and MW-4) were well above the standard. The highest iron concentration detected during May 2019 was 26.5 mg/L (at MW-10R).
- Arsenic – Monitoring at this site has been closely tracking arsenic concentrations in MW-4. The standard for arsenic is 0.01 mg/L. For the past multiple sampling events, the arsenic concentration in MW-4 has slightly exceeded that standard, and that trend continued during this sampling event. The arsenic concentration in MW-4 during May 2019 was 0.0118 mg/L, which compares closely with the December 2018 arsenic concentration (0.0132 mg/L) and with the May 2018 arsenic concentration (0.0136 mg/L). MW-4 is designated as a background well.

A summary of the groundwater analytical results is presented in **Table 2**, and the laboratory analytical reports are provided in **Attachment C**.

#### Surface Water Analytical Results

There were several inorganic analytes detected in the surface water sample (SW-2). One volatile organic analyte, acetone, was detected in the surface water, but the concentration (5.90 ug/l) was significantly less than its surface water quality standard. The concentration of every analyte that was detected in the surface water sample was compared to the State surface water quality standards (if a standard existed for that analyte). The surface water standards are promulgated by Chapter 62-302, FAC. A summary of the surface water analytical results is presented in **Table 3**, and the laboratory analytical report is provided in **Attachment C**.

None of the laboratory parameters were out of compliance with their surface water criteria. The conductivity field measurement was not in compliance with its surface water criteria. The conductivity was measured at 3,670 microSiemens per centimeter (uS/cm), which is greater than the criteria of 1,275 uS/cm. The Dissolved Oxygen field measurement was not in compliance with its surface water criteria. Dissolved Oxygen was measured at a concentration of 1.61 mg/L, which is less than the criteria of greater than 5 mg/L.

#### **SUMMARY AND CONCLUSIONS**

The results of the first half of 2019 sampling event at the Hardee County Solid Waste Disposal Facility were consistent with those of the recent sampling events, with numerous inorganic analyte detections in the groundwater and surface water. There were three analytes detected in the groundwater that did not comply with their regulatory standards: arsenic, pH, and iron were

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detected in the groundwater at concentrations in excess of their regulatory criteria. It should be noted that the primary parameters that were not in compliance with their standards in the groundwater (pH and iron) were also not in compliance with their standards in both of the background monitoring wells. The arsenic exceedance occurred only in one of the background monitoring wells (MW-4).

No elevated concentrations of laboratory parameters were detected in the surface water. Conductivity was measured in the field at 3,670 uS/cm, which is greater than the criteria of 1,275 uS/cm. Dissolved Oxygen was measured in the field at a concentration of 1.61 mg/L, which is less than the criteria of greater than 5 mg/L. These findings are generally consistent with most of the recent surface water sampling results, although the conductivity reading is higher than previous results.

Based on these findings, the facility does not appear to be having a significant effect on groundwater and surface water quality. Atkins recommends that the analytical results in future sampling events be evaluated closely for any developing trends. If you have any questions regarding the information presented in this report, please call me at (813) 281-8377.

Sincerely,

A handwritten signature in blue ink that reads "Bradley J. Bayne". The signature is written in a cursive style.

Bradley J. Bayne, PG  
Senior Scientist  
Florida PG No. 1733

CC: Ken Wheeler, Engineer, Hardee County Public Works (2 copies)  
Tony Perry, Landfill Operations, Hardee County Solid Waste Management Department,  
685 Airport Road, Wauchula, FL 33873  
File 100063988

## **TABLES**

**Table 1**  
**Groundwater Elevation Data**  
**Hardee County Landfill**  
**First Half 2019**

Well Identifier	Top-of-Casing Elevation (Ft-NGVD)	Ground Surface Elevation (Ft-NGVD)	Total Depth (Ft-TOC)	Well Diameter (Inches)	Depth to Groundwater (Ft below TOC)	Groundwater Elevation (Ft-NGVD)
<b>Monitoring Wells</b>						
MW-1	87.97	86.24	11.00	4	5.66	82.31
MW-2	85.86	83.75	10.50	4	7.06	78.80
MW-4	87.16	84.09	18.90	2	7.04	80.12
MW-10R	88.56	85.49	15.12	2	8.82	79.74
MW-11	88.11	85.17	13.90	2	9.68	78.43
MW-12R	89.00	85.71	23.25	2	9.88	79.12
MW-13	88.88	NM	23.00	2	8.03	80.85
MW-14	88.16	NM	23.00	2	5.40	82.76
<b>Piezometers</b>						
MW-6	88.25	85.06	NA	2	9.35	78.90
MW-7	87.88	84.98	NA	2	8.65	79.23
P-7	84.47	82.41	NA	2	5.65*	78.82
P-8	85.32	83.25	NA	2	6.97	78.35
P-11	88.69	86.16	NA	2	9.08	79.61
P-13	87.96	87.98	NA	2	8.54	79.42
P-14	87.31	84.05	NA	2	7.65	79.66
P-17	88.82	85.88	NA	2	6.71	82.11
P-18	88.74	84.37	NA	2	DRY**	ND
P-19	86.73	84.14	NA	2	6.03	80.70
P-20	87.6	84.68	NA	2	7.04	80.56
P-21	86.63	83.57	NA	2	7.54	79.09
P-22	87.04	84.09	NA	2	7.35	79.69
P-23	86.45	83.71	NA	2	7.67	78.78
<b>Staff Gauges</b>						
SG-1	80.51#	NA	NA	NA	+1.4***	81.91
SG-2	78.57#	NA	NA	NA	+2.8***	81.37

NM = Not measured NA = Not applicable or available

\* = casing cut off # = lag bolt/zero elevation \*\* = dry or plugged, no data (ND)

\*\*\* = bottom of gauge obscured by vegetation, elevation estimated

**Table 2**  
**Groundwater Analytical Summary**  
**Hardee County Landfill**  
**First Half 2019**

Analyte	Monitoring Well:		MW-1	MW-2	MW-4	MW-10R	MW-11	MW-12R	MW-13	MW-14
	Sample Date:		5/14/2019	5/14/2019	5/14/2019	5/15/2019	5/15/2019	5/14/2019	5/14/2019	5/14/2019
	Standard <sup>(1)</sup>	Units								
<b>Field Measurements</b>										
Groundwater Elevation		ft	82.31	78.80	80.12	79.74	78.43	79.12	80.85	82.76
Temperature		deg. C	23.60	23.98	22.22	24.28	23.80	24.12	23.91	24.67
pH	6.5-8.5	STD	4.79	6.88	6.33	6.55	5.37	6.60	5.19	6.69
Conductivity		uS/cm	153	488	302	3425	5395	1017	596	656
Dissolved Oxygen (DO)		mg/l	0.44	0.59	0.48	0.30	0.19	0.38	1.89	0.95
Turbidity		NTU	19.5	8.81	2.31	19.1	51.1	1.57	1.56	1.35
<b>Inorganics (Appendix I parameters only)</b>										
Nitrate (as N)	10	mg/l	0.0100 U	0.0472	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0808	0.0102 I
TDS	500	mg/l	212.0	308	290	378	70.0	242	62.0	286
Chloride	250	mg/l	17.4	20.6	14.7	43.4	6.17 I	11.4	9.21	22.9
Antimony	0.006	mg/l	0.00200 U							
Arsenic	0.01	mg/l	0.0051	0.00100 U	0.0118	0.00420	0.00100 U	0.00360	0.00100 U	0.0027
Barium	2	mg/l	0.0117	0.0232	0.0126	0.0233	0.0081	0.00480	0.00200 U	0.0041
Beryllium	0.004	mg/l	0.000500 U							
Cadmium	0.005	mg/l	0.000200 U							
Chromium	0.1	mg/l	0.0216	0.00100 U	0.00510	0.00100 U	0.00140 I	0.00100 U	0.00100 U	0.00100 U
Cobalt	0.14	mg/l	0.00100 U							
Copper	1	mg/l	0.00180 I	0.00100 U	0.00100 U	0.00100 U	0.00100 U	0.0044	0.00100 U	0.00100 U
Lead	0.015	mg/l	0.00100 U							
Mercury	0.002	mg/l	0.0000200 U							
Nickel	0.1	mg/l	0.0033	0.00160 I	0.00130 I	0.00200	0.00100 U	0.00120 I	0.00100 U	0.00160 I
Selenium	0.05	mg/l	0.00200 U							
Silver	0.1	mg/l	0.000500 U							
Thallium	0.002	mg/l	0.00100 U							
Vanadium	0.049	mg/l	0.0138	0.0021	0.0167	0.00320	0.0032	0.00190 I	0.00190 I	0.00100 U
Zinc	5	mg/l	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0190 I	0.0231	0.0100 U	0.0100 U
Ammonia (as N)	2.8	mg/l	0.153	0.0919	0.727	1.03	0.0100 U	0.219	0.0638	0.224
Iron	0.3	mg/l	4.92	2.60	8.32	26.5	0.264	0.204	0.310	0.162
Sodium	160	mg/l	10.2	16.4	8.29	23.6	5.56	12.2	6.36	18.2
<b>Organics</b>										
1,1,1,2-Tetrachloroethane		ug/l	0.500 U							
1,1,1-Trichloroethane	200	ug/l	0.500 U							
1,1,2,2-Tetrachloroethane		ug/l	0.100 U							
1,1,2-Trichloroethane	5	ug/l	0.500 U							
1,1-Dichloroethane		ug/l	0.500 U							
1,1-Dichloroethene	7	ug/l	0.500 U							
1,2-Dichloroethane	3	ug/l	0.500 U							
1,2-Dichloropropane	5	ug/l	0.200 U							
2-Butanone (MEK)		ug/l	1.00 U							
2-Hexanone		ug/l	0.500 U							
Acetone	6300	ug/l	5.00 U							
Acrylonitrile		ug/l	0.300 U							
Benzene	1	ug/l	0.500 U							
Bromochloromethane		ug/l	0.100 U							
Bromodichloromethane		ug/l	0.100 U							
Bromoform		ug/l	0.500 U							
Bromomethane		ug/l	0.500 U							
Carbon Disulfide		ug/l	1.00 U							
Carbon Tetrachloride	3	ug/l	0.500 U							
Chlorobenzene		ug/l	0.500 U							
Chloroethane		ug/l	0.500 U							
Chloroform		ug/l	0.500 U							
Chloromethane		ug/l	0.500 U							
Dibromoacetonemethane		ug/l	0.400 U							
Dibromomethane		ug/l	0.500 U							
Ethylbenzene	700	ug/l	0.500 U							
Methyl Iodide		ug/l	1.00 U							
Methyl Isobutyl ketone		ug/l	1.00 U							
Methylene chloride		ug/l	1.00 U							
Para-dichlorobenzene	75	ug/l	0.500 U							
Styrene	100	ug/l	0.500 U							
Tetrachloroethene	3	ug/l	0.500 U							
Toluene	1000	ug/l	0.500 U							
Trichloroethene	3	ug/l	0.500 U							
Trichlorofluoromethane		ug/l	0.500 U							
Vinyl Acetate		ug/l	10.0 U							
Vinyl chloride	1	ug/l	0.500 U							
Xylenes	10000	ug/l	0.500 U							
cis-1,2-Dichloroethene	70	ug/l	0.200 U							
cis-1,3-Dichloropropene		ug/l	0.500 U							
o-Dichlorobenzene	600	ug/l	0.500 U							
trans-1,2-Dichloroethene	100	ug/l	0.500 U							
trans-1,3-Dichloropropene		ug/l	0.500 U							
trans-1,4-Dichloro-2-butene		ug/l	1.00 U							
1,2,3 - Trichloropropane		ug/l	0.0200 U							
1,2 - Dibromoethane (EDB)		ug/l	0.0100 U							
1,2 - dibromo-3-chloropropane		ug/l	0.0200 U							

<sup>(1)</sup> - Maximum Contaminant Level (MCL) or Secondary Drinking Water Standard (SDWS), as established in Chapter 62-550. Analyte concentrations shown with shading represent an exceedance of the MCL or SDWS.

U = Compound was analyzed but not detected; I = Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit

**Table 3**  
**Surface Water Analytical Summary**  
**Hardee County Landfill**  
**First Half 2019**

Analyte	Location:		SW-2
	Sample Identifier:		SW-2
	Date of Test:		5/15/2019
	Standard(1)	Units	
<b>Field Measurements</b>			
Temperature		deg. C	22.93
pH	6-8.5	STD	6.87
Conductivity	1275	uS/cm	<b>3670</b>
Dissolved Oxygen (DO)	>5	mg/l	<b>1.61</b>
Turbidity	29+	NTU	10.1
<b>Inorganics</b>			
Nitrate (as N)		mg/l	0.0100 U
Nitrite (as N)		mg/l	0.0200 U
Total Dissolved Solids (TDS)		mg/l	248
Aluminum	1.5	mg/l	0.0167 I
Ammonia (as N)		mg/l	0.354
Antimony	4.3	mg/l	0.00200 U
Arsenic	0.05	mg/l	0.00100 U
Barium		mg/l	0.0116
Beryllium	0.00013	mg/l	0.000500 U
Cadmium	Note 2	mg/l	0.000200 U
Chromium	Note 3	mg/l	0.00100 U
Cobalt		mg/l	0.00100 U
Copper	Note 4	mg/l	0.00100 U
Iron	1	mg/l	0.381
Lead	Note 5	mg/l	0.00100 U
Mercury	0.000012	mg/l	0.0000200 U
Nickel	Note 6	mg/l	0.00100 U
Selenium	5	mg/l	0.00200 U
Silver	0.00007	mg/l	0.000500 U
Thallium	0.0063	mg/l	0.00100 U
Vanadium	0.049	mg/l	0.00100 U
Zinc	Note 7	mg/l	0.0100 U
Fecal coliform	800	mpn/100ml	214
Total Hardness (as CaCO <sub>3</sub> )		mg/l	140
Total Organic Carbon (TOC)		mg/l	29.7
Total Nitrogen		mg/l	1.50
Total Phosphorus		mg/l	1.12
Total Suspended Solids (TSS)		mg/l	1.00 U
Un-ionized Ammonia	0.02	mg/l	0.00106
Biological Oxygen Demand (BOD)		mg/l	2.00 U
Chemical Oxygen Demand (COD)		mg/l	78.9
Chlorophyll A		ug/l	3.00
Total Kheldahl Nitrogen (TKN) (as N)		mg/l	1.50
<b>Organics</b>			
1,1,1,2-Tetrachloroethane		ug/l	0.500 U
1,1,1-Trichloroethane	270	ug/l	0.500 U
1,1,2,2-Tetrachloroethane	10.8	ug/l	0.100 U
1,1,2-Trichloroethane	16	ug/l	0.500 U
1,1-Dichloroethane		ug/l	0.500 U
1,1-Dichloroethene	3.2	ug/l	0.500 U
1,2-Dichloroethane	37	ug/l	0.500 U
1,2-Dichloropropane	14	ug/l	0.200 U

Analyte	Location:		SW-2
	Sample Identifier:		SW-2
	Date of Test:		5/15/2019
	Standard(1)	Units	
1,2,3-Trichloropropane	0.2	ug/l	0.0200 U
1,2-Dibromoethane (EDB)	13	ug/l	0.0100 U
1,2-Dibromo-3-chloropropane		ug/l	0.0200 U
2-Butanone (MEK)	120000	ug/l	1.00 U
2-Hexanone		ug/l	0.500 U
Acetone	1700	ug/l	5.90 I
Acrylonitrile	0.2	ug/l	0.300 U
Benzene	71.28	ug/l	0.500 U
Bromochloromethane		ug/l	0.100 U
Bromodichloromethane	49.7	ug/l	0.100 U
Bromoform		ug/l	0.500 U
Bromomethane	35	ug/l	0.500 U
Carbon disulfide	110	ug/l	1.00 U
Carbon tetrachloride	4.42	ug/l	0.500 U
Chlorobenzene	17	ug/l	0.500 U
Chloroethane		ug/l	0.500 U
Chloroform		ug/l	0.500 U
Chloromethane	470.8	ug/l	0.500 U
Dibromochloromethane		ug/l	0.400 U
Dibromomethane	1580	ug/l	0.500 U
Ethylbenzene	610	ug/l	0.500 U
Methyl iodide		ug/l	1.00 U
Methyl isobutyl ketone		ug/l	1.00 U
Methylene chloride		ug/l	1.00 U
Para-dichlorobenzene		ug/l	0.500 U
Styrene	460	ug/l	0.500 U
Tetrachloroethene	8.85	ug/l	0.500 U
Toluene	480	ug/l	0.500 U
Trichloroethene	80.7	ug/l	0.500 U
Trichlorofluoromethane		ug/l	0.500 U
Vinyl Acetate	700	ug/l	10.0 U
Vinyl chloride	2.4	ug/l	0.500 U
Xylenes	370	ug/l	0.500 U
cis-1,2-Dichloroethene	3.2	ug/l	0.200 U
cis-1,3-Dichloropropene	12	ug/l	0.500 U
o-Dichlorobenzene		ug/l	0.500 U
trans-1,2-Dichloroethene	11000	ug/l	0.500 U
trans-1,3,-Dichloropropene	12	ug/l	0.500 U
trans-1,4-Dichloro-2-butene		ug/l	1.00 U

Abbreviations: mg/l = milligrams per liter; ug/l = micrograms per liter; NTU = nephelometric turbidity units; mpn/100ml = most probable number (of bacteria colonies) per 100 ml. U = less than method detection limit (MDL) I = between MDL and practical quantitation limit J = estimated value

(1) Surface water standards presented in Chapter 62-302, FAC. Analyte concentrations shown with shading represent an exceedance of the regulatory level. Value of hardness is used to determine calculated standards below.

(2) Cd less than or equal to  $e(0.7852(\ln H)-3.49)$

(3) Cr less than or equal to  $e(0.819(\ln H)+0.6848)$

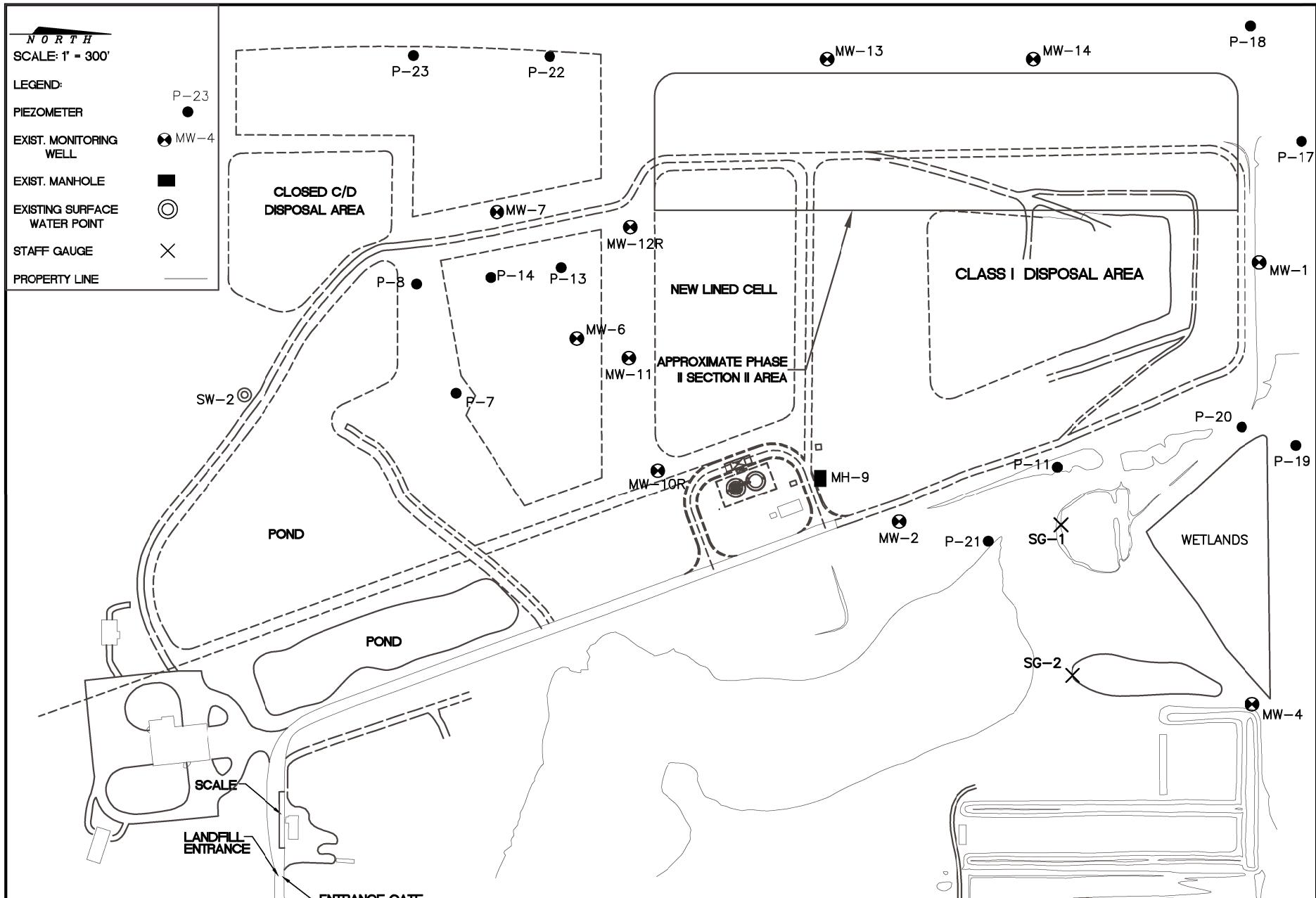
(4) Cu less than or equal to  $e(0845(\ln H)-1.702)$

(5) Pb less than or equal to  $e(1.273(\ln H)-4.705)$

(6) Ni less than or equal to  $e(0.846(\ln H)+0.0584)$

(7) Zn less than or equal to  $e(0.8473(\ln H)+0.884)$

## **FIGURES**

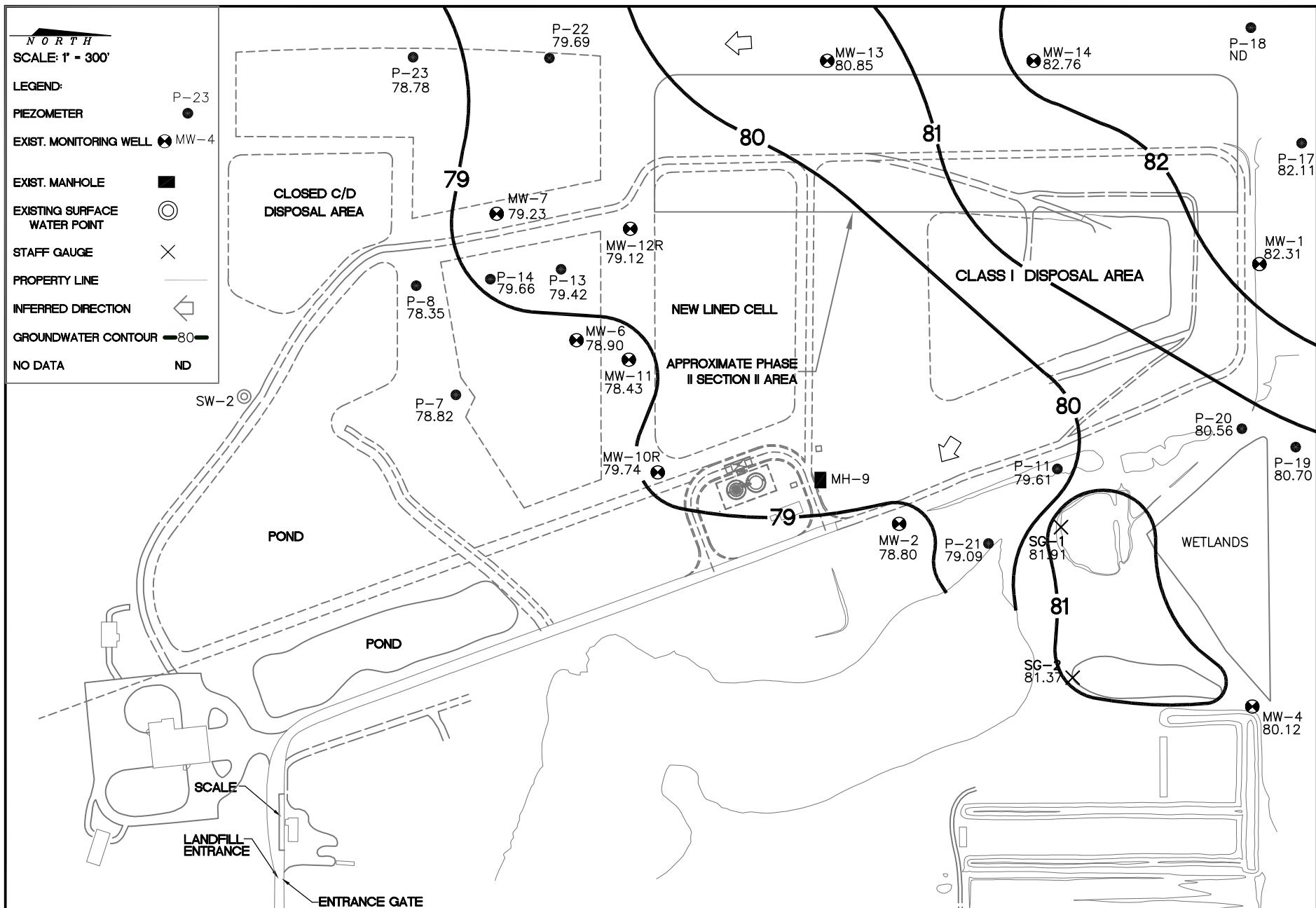


**ATKINS**

HARDEE COUNTY  
LANDFILL

MONITORING POINTS

FIGURE 1



**ATKINS**

HARDEE COUNTY  
LANDFILL

WATER TABLE  
ELEVATION CONTOUR MAP  
FIRST HALF 2019

FIGURE 2

**ATTACHMENT A**

**Ground Water Monitoring Report Form**



# Florida Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

DEP Form #: 62-701.900(31), F.A.C.  
Form Title: Water Quality Monitoring Certification  
Effective Date: January 6, 2010  
Incorporated in Rule 62-701.510(9), F.A.C.

## WATER QUALITY MONITORING CERTIFICATION

### PART I GENERAL INFORMATION

(1) Facility Name Hardee County Solid Waste Disposal Facility  
Address 685 Airport Road  
City Wauchula, FL Zip 33873 County Hardee  
Telephone Number (863) 773-5089

(2) WACS Facility ID SWD-25-40612

(3) DEP Permit Number 38414-016-SO-01

(4) Authorized Representative's Name Bradley J. Bayne, P.G. Title Senior Geologist  
Address Atkins North America, 4030 West Boy Scout Boulevard, Suite 700  
City Tampa, FL Zip 33607 County Hillsborough  
Telephone Number (813) 281-8377  
Email address (if available) bradley.bayne@atkinsglobal.com

### CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

June 21, 2019

(Date)

(Owner or Authorized Representative's Signature)

### PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization Atkins North America (see above information)

Analytical Lab NELAC / HRS Certification # NELAC # E83018

Lab Name Flowers Chemical Laboratories, Inc.  
Address 481 Newburyport Avenue, Altamonte Springs, FL 32715  
Phone Number (407) 339-5984  
Email address (if available) june@flowerslabs.com (June Flowers)

**ATTACHMENT B**

**Groundwater Sampling Logs and Field Equipment Calibration Logs**

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	Hardee County Landfill	SITE LOCATION:	685 Airport Rd., Wauchula
WELL NO:	MW-1	SAMPLE ID:	MW-1
		DATE:	5/14/19

## PURGING DATA

**WELL CAPACITY** (Gallons Per Foot):  $0.75" = 0.02$ ;  $1" = 0.04$ ;  $1.25" = 0.06$ ;  $2" = 0.16$ ;  $3" = 0.37$ ;  $4" = 0.65$ ;  $5" = 1.02$ ;  $6" = 1.47$ ;  $12" = 5.88$   
**TUBING INSIDE DIA. CAPACITY** (Gal./Ft.):  $1/8" = 0.0006$ ;  $3/16" = 0.0014$ ;  $1/4" = 0.0026$ ;  $5/16" = 0.004$ ;  $3/8" = 0.006$ ;  $1/2" = 0.010$ ;  $5/8" = 0.016$

**PURGING EQUIPMENT CODES:** B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

## **SAMPLING DATA**

**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; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;  
RFPP = Reverse Flow Peristaltic 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:  $\pm 0.2$  units Temperature:  $\pm 0.2^{\circ}\text{C}$  Specific Conductance:  $\pm 5\%$  Dissolved Oxygen: all readings < 20% saturation (see Table FS 2200-2);

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Hardee County Landfill SITE LOCATION: 685 Airport Rd., Wauchula  
WELL NO: MW-2 SAMPLE ID: MW-2 DATE: 5/14/19

## PURGING DATA

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <b>Brad Bayne/Atkins</b>		SAMPLER(S) SIGNATURE(S): <i>Brad J. Bayne</i>			SAMPLING INITIATED AT: <b>10:30</b>	SAMPLING ENDED AT: <b>10:40</b>		
PUMP OR TUBING DEPTH IN WELL (feet):	<b>10</b>	TUBING MATERIAL CODE: <b>S 4 HDPE</b>	FIELD-FILTERED: Y <b>N</b> Filtration Equipment Type:	FILTER SIZE: _____ μm				
FIELD DECONTAMINATION: PUMP Y <b>N</b>		TUBING Y <b>N</b> (replaced)		DUPLICATE: Y <b>N</b>				
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)			
<i>See Chain of Custody</i>								
REMARKS:								
<b>MATERIAL CODES:</b> AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)								
<b>SAMPLING EQUIPMENT CODES:</b> APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic 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:  $\pm 0.2$  units Temperature:  $\pm 0.2^\circ\text{C}$  Specific Conductance:  $\pm 5\%$  Dissolved Oxygen: all readings  $\leq 20\%$  saturation (see Table FS 2200-2); optionally,  $\pm 0.2\text{ mg/L}$  or  $\pm 10\%$  (whichever is greater) Turbidity: all readings  $< 20\text{ NTU}$ ; optionally  $\pm 5\text{ NTU}$  or  $\pm 10\%$  (whichever is greater)

## DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: WELL NO:	Hardee County Landfill MW-4	SITE LOCATION: SAMPLE ID:	685 Airport Rd., Wauchula MW-4
------------------------	--------------------------------	------------------------------	-----------------------------------

## PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH: feet to feet		STATIC DEPTH TO WATER (feet):	7.04	PURGE PUMP TYPE OR BAILER:	peristaltic		
<b>WELL VOLUME PURGE:</b> 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= ( 21.60 feet - 7.0 feet ) X 0.16 gallons/foot = 2.33 gallons											
<b>EQUIPMENT VOLUME PURGE:</b> 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	9	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	9	PURGING INITIATED AT:	8:30	PURGING ENDED AT:	9:10	TOTAL VOLUME PURGED (gallons):	4		
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
8:55	2.5	2.5	0.1	8.10	6.36	22.22	310	0.87	2.19	Brown	None
9:00	0.5	3.0	0.1	8.09	6.34	22.18	304	0.70	2.50	Clear	↓
9:05	0.5	3.5	0.1	8.09	6.33	22.16	302	0.58	2.25	↓	
9:10	0.5	4.0	0.1	8.09	6.33	22.21	302	0.48	2.31	↓	
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)											

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>Brad Bayne / Atkins</i>	SAMPLER(S) SIGNATURE(S): <i>Brad J. Bayne</i>	SAMPLING INITIATED AT: 9:10	SAMPLING ENDED AT: 9:20						
PUMP OR TUBING DEPTH IN WELL (feet): 9	TUBING MATERIAL CODE: ST+HDPE	FIELD-FILTERED: Y <input checked="" type="checkbox"/> N	FILTER SIZE: _____ μm Filtration Equipment Type:						
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/>	TUBING Y <input checked="" type="checkbox"/> (replaced)	DUPLICATE: Y <input checked="" type="checkbox"/>							
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION (including wet ice)							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
See Chain of Custody									
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; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic 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: ± 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)

## DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: <b>Hardee County Landfill</b>	SITE LOCATION: <b>685 Airport Rd., Wauchula</b>
WELL NO: <b>MW-10R</b>	SAMPLE ID: <b>MW-10R</b>
DATE: <b>5/15/19</b>	

**PURGING DATA**

WELL DIAMETER (inches): <b>2</b>	TUBING DIAMETER (inches): <b>1/4</b>	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <b>8.82</b>	PURGE PUMP TYPE OR BAILER: <b>peristaltic</b>							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)		= ( <b>23.02</b> feet - <b>8.82</b> feet) X <b>0.16</b> gallons/foot = <b>2.27</b> gallons									
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY (only fill out if applicable)		= gallons + (gallons/foot X feet) + gallons = gallons									
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <b>11</b>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <b>11</b>	PURGING INITIATED AT: <b>9:35</b>	PURGING ENDED AT: <b>10:15</b>	TOTAL VOLUME PURGED (gallons): <b>4.0</b>							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) $\text{mg/L}$ or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<b>10:00</b>	<b>2.5</b>	<b>2.5</b>	<b>0.1</b>	<b>9.54</b>	<b>6.55</b>	<b>24.29</b>	<b>3509</b>	<b>0.28</b>	<b>14.8</b>	<b>Clear</b>	<b>None</b>
<b>10:05</b>	<b>0.5</b>	<b>3.0</b>	<b>0.1</b>	<b>9.54</b>	<b>6.56</b>	<b>24.29</b>	<b>3485</b>	<b>0.26</b>	<b>18.5</b>		
<b>10:10</b>	<b>0.5</b>	<b>3.5</b>	<b>0.1</b>	<b>9.55</b>	<b>6.55</b>	<b>24.29</b>	<b>3447</b>	<b>0.28</b>	<b>17.4</b>		
<b>10:15</b>	<b>0.5</b>	<b>4.0</b>	<b>0.1</b>	<b>9.54</b>	<b>6.55</b>	<b>24.28</b>	<b>3425</b>	<b>0.30</b>	<b>19.1</b>		
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <b>Brad Bayne / Atkins</b>	SAMPLER(S) SIGNATURE(S): <b>Brad Bayne</b>	SAMPLING INITIATED AT: <b>10:15</b>	SAMPLING ENDED AT: <b>10:25</b>					
PUMP OR TUBING DEPTH IN WELL (feet): <b>11</b>	TUBING MATERIAL CODE: <b>S + HDPE</b>	FIELD-FILTERED: <b>Y</b> <b>N</b>	FILTER SIZE: _____ $\mu\text{m}$ Filtration Equipment Type:					
FIELD DECONTAMINATION: PUMP <b>Y</b> <b>N</b>	TUBING <b>Y</b> <b>N</b> (replaced)	DUPLICATE: <b>Y</b> <b>N</b>						
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)			
<b>500 Chain of Custody</b>								
REMARKS:								
MATERIAL CODES: <b>AG</b> = Amber Glass; <b>CG</b> = Clear Glass; <b>HDPE</b> = High Density Polyethylene; <b>LDPE</b> = Low Density Polyethylene; <b>PP</b> = Polypropylene; <b>S</b> = Silicone; <b>T</b> = Teflon; <b>O</b> = Other (Specify)								
SAMPLING EQUIPMENT CODES: <b>APP</b> = After (Through) Peristaltic Pump; <b>B</b> = Bailer; <b>BP</b> = Bladder Pump; <b>ESP</b> = Electric Submersible Pump; <b>RFPP</b> = Reverse Flow Peristaltic Pump; <b>SM</b> = Straw Method (Tubing Gravity Drain); <b>O</b> = 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:  $\pm 0.2$  units Temperature:  $\pm 0.2$  °C Specific Conductance:  $\pm 5\%$  Dissolved Oxygen: all readings  $\leq 20\%$  saturation (see Table FS 2200-2); optionally,  $\pm 0.2 \text{ mg/L}$  or  $\pm 10\%$  (whichever is greater) Turbidity: all readings  $\leq 20 \text{ NTU}$ ; optionally  $\pm 5 \text{ NTU}$  or  $\pm 10\%$  (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Hardee County Landfill	SITE LOCATION: 685 Airport Rd., Wauchula	
WELL NO: MW-11	SAMPLE ID: MW-11	DATE: 5/15/19

## PURGING DATA

## SAMPLING DATA

**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; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;  
RFPP = Reverse Flow Peristaltic 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:  $\pm 0.2$  units Temperature:  $\pm 0.2^\circ\text{C}$  Specific Conductance:  $\pm 5\%$  Dissolved Oxygen: all readings  $< 20\%$  saturation (see Table FS 2200-2); optionally,  $\pm 0.2\text{ mg/L}$  or  $\pm 10\%$  (whichever is greater) Turbidity: all readings  $< 20\text{ NTU}$ ; optionally  $\pm 5\text{ NTU}$  or  $\pm 10\%$  (whichever is greater)

## DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: <b>Hardee County Landfill</b>	SITE LOCATION: <b>685 Airport Rd., Wauchula</b>
WELL NO: <b>MW-12R</b>	SAMPLE ID: <b>MW-12R</b>
DATE: <b>5/14/19</b>	

**PURGING DATA**

WELL DIAMETER (inches): <b>2</b>	TUBING DIAMETER (inches): <b>1/4</b>	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <b>9.88</b>	PURGE PUMP TYPE OR BAILER: <b>Peristaltic</b>							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= ( <b>23.04</b> feet - <b>9.88</b> feet ) X <b>0.16</b> gallons/foot = <b>2.01</b> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
= gallons + ( gallons/foot X feet ) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <b>12</b>		FINAL PUMP OR TUBING DEPTH IN WELL (feet): <b>13</b>	PURGING INITIATED AT: <b>14:30</b>	PURGING ENDED AT: <b>15:15</b>							
TOTAL VOLUME PURGED (gallons): <b>4.5</b>											
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos}/\text{cm}$ or $\mu\text{S}/\text{cm}$	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<b>14:55</b>	<b>2.5</b>	<b>2.5</b>	<b>0.1</b>	<b>11.25</b>	<b>6.55</b>	<b>24.14</b>	<b>1045</b>	<b>0.31</b>	<b>1.93</b>	<b>Clear</b>	<b>None</b>
<b>15:00</b>	<b>0.5</b>	<b>3.0</b>	<b>0.1</b>	<b>11.25</b>	<b>6.57</b>	<b>24.14</b>	<b>1036</b>	<b>0.38</b>	<b>2.46</b>		
<b>15:05</b>	<b>0.5</b>	<b>3.5</b>	<b>0.1</b>	<b>11.24</b>	<b>6.59</b>	<b>24.13</b>	<b>1028</b>	<b>0.38</b>	<b>2.46</b>		
<b>15:10</b>	<b>0.5</b>	<b>4.0</b>	<b>0.1</b>	<b>11.24</b>	<b>6.60</b>	<b>24.12</b>	<b>1020</b>	<b>0.40</b>	<b>2.33</b>		
<b>15:15</b>	<b>0.5</b>	<b>4.5</b>	<b>0.1</b>	<b>11.24</b>	<b>6.60</b>	<b>24.12</b>	<b>1017</b>	<b>0.38</b>	<b>1.57</b>		

WELL CAPACITY (Gallons Per Foot):  $0.75'' = 0.02$ ;  $1'' = 0.04$ ;  $1.25'' = 0.06$ ;  $2'' = 0.16$ ;  $3'' = 0.37$ ;  $4'' = 0.65$ ;  $5'' = 1.02$ ;  $6'' = 1.47$ ;  $12'' = 5.88$   
TUBING INSIDE DIA. CAPACITY (Gal./Ft.):  $1/8'' = 0.0006$ ;  $3/16'' = 0.0014$ ;  $1/4'' = 0.0026$ ;  $5/16'' = 0.004$ ;  $3/8'' = 0.006$ ;  $1/2'' = 0.010$ ;  $5/8'' = 0.016$

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <b>Brad Bayne / Atkins</b>	SAMPLER(S) SIGNATURE(S): <b>Brad Bayne</b>	SAMPLING INITIATED AT: <b>15:15</b>	SAMPLING ENDED AT: <b>15:25</b>						
PUMP OR TUBING DEPTH IN WELL (feet): <b>13</b>	TUBING MATERIAL CODE: <b>5 + HDPE</b>	FIELD-FILTERED: <b>Y</b> <b>N</b> Filtration Equipment Type:	FILTER SIZE: _____ $\mu\text{m}$						
FIELD DECONTAMINATION: PUMP <b>Y</b> <b>N</b>	TUBING <b>Y</b> <b>N</b> (replaced)	DUPLICATE: <b>Y</b> <b>N</b>							
SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION (including wet ice)							
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
<i>See Chain of Custody</i>									

## 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; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump;  
**RFPP** = Reverse Flow Peristaltic 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:  $\pm 0.2$  units Temperature:  $\pm 0.2^\circ\text{C}$  Specific Conductance:  $\pm 5\%$  Dissolved Oxygen: all readings  $\leq 20\%$  saturation (see Table FS 2200-2); optionally,  $\pm 0.2 \text{ mg/L}$  or  $\pm 10\%$  (whichever is greater) Turbidity: all readings  $\leq 20 \text{ NTU}$ ; optionally  $\pm 5 \text{ NTU}$  or  $\pm 10\%$  (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: <b>Hardee County Landfill</b>	SITE LOCATION: <b>685 Airport Road, Wauchula</b>
WELL NO: <b>MW-13</b>	SAMPLE ID: <b>MW-13</b>
DATE: <b>5/14/19</b>	

**PURGING DATA**

WELL DIAMETER (inches): <b>2</b>	TUBING DIAMETER (inches): <b>1/4</b>	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): <b>8.03</b>	PURGE PUMP TYPE OR BAILER: <b>Peristaltic</b>							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= ( <b>20.79</b> feet - <b>8.03</b> feet ) X <b>0.16</b> gallons/foot = <b>2.04</b> gallons											
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME (only fill out if applicable)											
= gallons + ( gallons/foot X feet ) + gallons = gallons											
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <b>10</b>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <b>10</b>	PURGING INITIATED AT: <b>13:20</b>	PURGING ENDED AT: <b>14:00</b>	TOTAL VOLUME PURGED (gallons): <b>4.0</b>							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) $\mu\text{mhos/cm}$ or $\mu\text{S/cm}$	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
<b>13:45</b>	<b>2.5</b>	<b>2.5</b>	<b>0.1</b>	<b>8.38</b>	<b>4.88</b>	<b>23.73</b>	<b>609</b>	<b>2.45</b>	<b>1.34</b>	<b>Clear</b>	<b>None</b>
<b>13:50</b>	<b>0.5</b>	<b>3.0</b>	<b>0.1</b>	<b>8.37</b>	<b>5.01</b>	<b>23.75</b>	<b>605</b>	<b>2.15</b>	<b>1.58</b>	<b>↓</b>	<b>↓</b>
<b>13:55</b>	<b>0.5</b>	<b>3.5</b>	<b>0.1</b>	<b>8.37</b>	<b>5.09</b>	<b>23.76</b>	<b>608</b>	<b>1.96</b>	<b>1.11</b>		
<b>14:00</b>	<b>0.5</b>	<b>4.0</b>	<b>0.1</b>	<b>8.37</b>	<b>5.19</b>	<b>23.91</b>	<b>596</b>	<b>1.89</b>	<b>1.56</b>		
WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88 TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016											

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

**SAMPLING DATA**

SAMPLED BY (PRINT) / AFFILIATION: <b>Brad Bayne / Atkins</b>	SAMPLER(S) SIGNATURE(S): <b>Brad Bayne</b>	SAMPLING INITIATED AT: <b>14:00</b>	SAMPLING ENDED AT: <b>14:10</b>					
PUMP OR TUBING DEPTH IN WELL (feet): <b>10</b>	TUBING MATERIAL CODE: <b>57 HDPE</b>	FIELD-FILTERED: <b>Y</b> <b>N</b> Filtration Equipment Type:	FILTER SIZE: _____ $\mu\text{m}$					
FIELD DECONTAMINATION: PUMP <b>Y</b> <b>N</b>	TUBING <b>Y</b> <b>N</b> (replaced)	DUPLICATE: <b>Y</b> <b>N</b>						
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)			
<i>See Chain of Custody</i>								
REMARKS:								
MATERIAL CODES: <b>AG</b> = Amber Glass; <b>CG</b> = Clear Glass; <b>HDPE</b> = High Density Polyethylene; <b>LDPE</b> = Low Density Polyethylene; <b>PP</b> = Polypropylene; <b>S</b> = Silicone; <b>T</b> = Teflon; <b>O</b> = Other (Specify)								
SAMPLING EQUIPMENT CODES: <b>APP</b> = After (Through) Peristaltic Pump; <b>B</b> = Bailer; <b>BP</b> = Bladder Pump; <b>ESP</b> = Electric Submersible Pump; <b>RFPP</b> = Reverse Flow Peristaltic Pump; <b>SM</b> = Straw Method (Tubing Gravity Drain); <b>O</b> = 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:  $\pm 0.2$  units Temperature:  $\pm 0.2$  °C Specific Conductance:  $\pm 5\%$  Dissolved Oxygen: all readings  $\leq 20\%$  saturation (see Table FS 2200-2); optionally,  $\pm 0.2$  mg/L or  $\pm 10\%$  (whichever is greater) Turbidity: all readings  $\leq 20$  NTU; optionally  $\pm 5$  NTU or  $\pm 10\%$  (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Hardee County Landfill SITE LOCATION: 685 Airport Rd., Wauchula  
WELL NO: MW-14 SAMPLE ID: MW-14 DATE: 5/14/19

## PURGING DATA

## SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <i>Brad Bayne / Atkins</i>				SAMPLER(S) SIGNATURE(S): <i>Brad J. Bayne</i>			SAMPLING INITIATED AT: <b>13:05</b>	SAMPLING ENDED AT: <b>13:15</b>	
PUMP OR TUBING DEPTH IN WELL (feet): <b>7.5</b>		TUBING MATERIAL CODE: <b>S + HDPE</b>		FIELD-FILTERED: <b>Y</b> <input checked="" type="checkbox"/> <b>N</b> <input type="checkbox"/>	Filtration Equipment Type:	FILTER SIZE: _____ μm			
FIELD DECONTAMINATION: PUMP <b>Y</b> <input checked="" type="checkbox"/> <b>N</b>				TUBING <b>Y</b> <input checked="" type="checkbox"/> <b>N</b> (replaced)		DUPLICATE: <b>Y</b> <input checked="" type="checkbox"/> <b>N</b>			
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			
<i>See Chain of Custody</i>									

**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; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;  
RFPP = Reverse Flow Peristaltic 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:**  $\pm$  0.2 units **Temperature:**  $\pm$  0.2 °C **Specific Conductance:**  $\pm$  5% **Dissolved Oxygen:** all readings  $\leq$  20% saturation (see Table FS 2200-2); optionally,  $\pm$  0.2 mg/L or  $\pm$  10% (whichever is greater) **Turbidity:** all readings  $<$  20 NTU; optionally  $\pm$  5 NTU or  $\pm$  10% (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME:	Hardee County Landfill	SITE LOCATION:	685 Airport Rd, Wauchula
WELL NO:	SW-2	SAMPLE ID:	SW-2
EMDING DATE:			

## **PURGING DATA**

**WELL CAPACITY** (Gallons Per Foot):  $0.75'' = 0.02$ ;  $1'' = 0.04$ ;  $1.25'' = 0.06$ ;  $2'' = 0.16$ ;  $3'' = 0.37$ ;  $4'' = 0.65$ ;  $5'' = 1.02$ ;  $6'' = 1.47$ ;  $12'' = 5.88$   
**TUBING INSIDE DIA. CAPACITY** (Gal./Ft.):  $1/8'' = 0.0006$ ;  $3/16'' = 0.0014$ ;  $1/4'' = 0.0026$ ;  $5/16'' = 0.004$ ;  $3/8'' = 0.006$ ;  $1/2'' = 0.010$ ;  $5/8'' = 0.016$

**PURGING EQUIPMENT CODES:** B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

**PURGING EQUIPMENT CODES:** B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

## SAMPLING DATA

**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; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump;  
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## 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

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

## Field Instrument Calibration Records

**INSTRUMENT (MAKE/MODEL#)**

ysi 556

INSTRUMENT # OSM1466 AD

**PARAMETER:** [check only one] Rented from Peterson Environmental

- TEMPERATURE     CONDUCTIVITY     SALINITY     pH     ORP  
 TURBIDITY     RESIDUAL CL     DO     OTHER \_\_\_\_\_

**STANDARDS:** [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A 4.01 Provided by Peterson Environmental

Standard B 7.00

### **Standard C**

## Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) YSI 556 INSTRUMENT # 05M1466AD

PARAMETER: [check only one] Rented from Peterson Environmental

TEMPERATURE     CONDUCTIVITY     SALINITY     pH     ORP  
 TURBIDITY     RESIDUAL CL     DO     OTHER \_\_\_\_\_

**STANDARDS:** [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A 1,000 uS (provided by Peterson Environmental)

### **Standard B**

## **Standard C**

## Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) YSI 556 INSTRUMENT # 05M1466AD

PARAMETER: [check only one] Rented from Peterson Environmental

TEMPERATURE     CONDUCTIVITY     SALINITY     pH     ORP  
 TURBIDITY     RESIDUAL CL     DO     OTHER \_\_\_\_\_

**STANDARDS:** [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

Standard A 100 % (8.56 mg/L)

Standard B provided by Peterson Environmental)

### **Standard C**

## Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) Hach 2100 Q      INSTRUMENT # 13110C029480

PARAMETER: [check only one] Rented from Peterson Environmental

TEMPERATURE       CONDUCTIVITY       SALINITY       pH       ORP  
 TURBIDITY       RESIDUAL CL       DO       OTHER \_\_\_\_\_

**STANDARDS:** [Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]

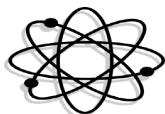
Standard A 10 NTU Provided by Peterson Environmental

Standard B 20 NTJ

## **Standard C**

**ATTACHMENT C**

**Groundwater and Surface Water Laboratory Analytical Reports**



# FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs, FL 32715-0597  
571 NW Mercantile Pl, Suite 111, Port St. Lucie, FL 34986  
812 SW Harvey Green Dr, Madison, FL 32340  
3980 Overseas Hwy, Suite 103, Marathon, FL 33050

Phone: 407-339-5984 E83018 (Main Lab)  
Phone: 772-343-8006 E86562 (South Lab)  
Phone: 850-973-6878 E82405 (North Lab)  
Phone: 305-743-8598 E35834 (Keys Lab)

Atkins-Tampa  
4030 W. Boy Scout Blvd, Ste 700  
Tampa, FL 33607

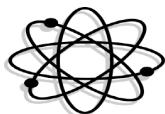
PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 14, 2019  
May 28, 2019; Invoice: 400469

## Report Summary

Date Received: May 15, 2019

FCL Project Manager: June S. Flowers

Laboratory #	Sample Description	Analysis	Chemist	Location	Sample Matrix
400469GW1	MW-4/299	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	BNP	Main Lab	
		FT1000	RJC	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	
		FT1600	RJC	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
400469GW2	MW-2/297	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	BNP	Main Lab	
		FT1000	RJC	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	
		FT1600	RJC	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
400469GW3	MW-1/296	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	BNP	Main Lab	
		FT1000	RJC	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	



# FLOWERS CHEMICAL LABORATORIES INC.

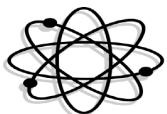
P.O. Box 150597, Altamonte Springs, FL 32715-0597  
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Atkins-Tampa  
4030 W. Boy Scout Blvd, Ste 700  
Tampa, FL 33607

PO #: 1005256  
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Date Sampled: May 14, 2019  
May 28, 2019; Invoice: 400469

400469GW4	MW-14/29064	FT1600	RJC	Main Lab	Ground Water
		SM2540 C	PLB	Main Lab	
400469GW5	MW-13/29063	SM4500-CI E	VLB	Main Lab	Ground Water
		EPA350.1	PCW	Main Lab	
400469GW6	MW-12R/22931	EPA353.2	PCW	Main Lab	Ground Water
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	BNP	Main Lab	
		FT1000	RJC	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	
		FT1600	RJC	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		EPA350.1	PCW	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	BNP	Main Lab	
		FT1000	RJC	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	
		FT1600	RJC	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
		EPA350.1	PCW	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	BNP	Main Lab	
		FT1000	RJC	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	
		FT1600	RJC	Main Lab	
		SM2540 C	PLB	Main Lab	



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Tampa, FL 33607

PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 14, 2019  
May 28, 2019; Invoice: 400469

SM4500-CI E      VLB

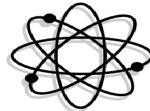
Main Lab

## Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.



Jefferson S. Flowers, Ph.D.  
President/Technical Director



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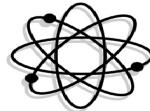
Atkins-Tampa  
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Tampa, FL 33607

PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 14, 2019  
May 28, 2019; Invoice: 400469

## Analysis Report

Lab #: 400469GW1   Sampled: 05/14/19 09:10 AM   Desc: MW-4/299

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10403435	EPA353.2	14797-55-8	05/15/19 05:37 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10403493	EPA7470	7439-97-6	05/16/19
Field Ground Water Elevation	80.1	ft	1.00	-10.0	-10.0	10403607	FT1000		05/14/19
Field pH (units)	6.33	pH	1.00	0.0100	0.0200	10403608	FT1100	C006	05/14/19
Field Conductivity	302	umhos/cm	1.00	0.0100	0.0100	10403609	FT1200		05/14/19
Field Temp. (C)	22.2	oC	1.00	0.0100	0.0100	10403610	FT1400		05/14/19
Field DO	0.480	mg/L	1.00	0.0100	0.0100	10403611	FT1500		05/14/19
Field Turbidity	2.31	NTU	1.00	0.0100	0.0100	10403612	FT1600		05/14/19
TDS	290	mg/L	1.00	2.50	5.00	10403715	SM2540 C	10-33-3	05/16/19
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10403807	EPA6020	7440-36-0	05/16/19
Arsenic	0.0118	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-38-2	05/16/19
Barium	0.0126	mg/L	1.00	0.00200	0.00400	10403807	EPA6020	7440-39-3	05/16/19
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10403807	EPA6020	7440-41-7	05/16/19
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10403807	EPA6020	7440-43-9	05/16/19
Chromium	0.00510	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-47-3	05/16/19
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-48-4	05/16/19
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-50-8	05/16/19
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7439-92-1	05/16/19
Nickel	0.00130 I	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-02-0	05/16/19
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10403807	EPA6020	7782-49-2	05/16/19
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10403807	EPA6020	7440-22-4	05/16/19
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-28-0	05/16/19
Vanadium	0.0167	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-62-2	05/16/19
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10403807	EPA6020	7440-66-6	05/16/19
Iron	8.32	mg/L	1.00	0.0100	0.0200	10403813	EPA6010	7439-89-6	05/20/19
Sodium	8.29	mg/L	1.00	0.500	1.00	10403813	EPA6010	7440-23-5	05/20/19
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	630-20-6	05/20/19



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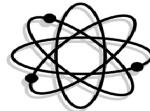
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Atkins-Tampa  
4030 W. Boy Scout Blvd, Ste 700  
Tampa, FL 33607

PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 14, 2019  
May 28, 2019; Invoice: 400469

Lab #: 400469GW1   Sampled: 05/14/19 09:10 AM   Desc: MW-4/299

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	71-55-6	05/20/19
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10403881	EPA8260	79-34-5	05/20/19
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	79-00-5	05/20/19
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-34-3	05/20/19
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-35-4	05/20/19
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10403881	EPA8260	107-06-2	05/20/19
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10403881	EPA8260	78-87-5	05/20/19
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	78-93-3	05/20/19
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	591-78-6	05/20/19
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10403881	EPA8260	67-64-1	05/20/19
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10403881	EPA8260	107-13-1	05/20/19
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	71-43-2	05/20/19
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10403881	EPA8260	074-97-5	05/20/19
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10403881	EPA8260	75-27-4	05/20/19
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-25-2	05/20/19
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	74-83-9	05/20/19
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	75-15-0	05/20/19
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	56-23-5	05/20/19
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	108-90-7	05/20/19
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-00-3	05/20/19
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	67-66-3	05/20/19
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	74-87-3	05/20/19
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10403881	EPA8260	124-48-1	05/20/19
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	074-95-3	05/20/19
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	100-41-4	05/20/19
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	074-88-4	05/20/19
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	108-10-1	05/20/19
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	75-09-2	05/20/19
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	106-46-7	05/20/19



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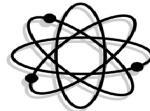
PO #: 1005256  
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Date Sampled: May 14, 2019  
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Lab #: 400469GW1    Sampled: 05/14/19 09:10 AM    Desc: MW-4/299

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	100-42-5	05/20/19
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	127-18-4	05/20/19
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	108-88-3	05/20/19
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	79-01-6	05/20/19
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-69-4	05/20/19
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10403881	EPA8260	108-05-4	05/20/19
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-01-4	05/20/19
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	1330-20-7	05/20/19
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10403881	EPA8260	156-59-2	05/20/19
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	10061-01-5	05/20/19
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	95-50-1	05/20/19
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	156-60-5	05/20/19
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	10061-02-6	05/20/19
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	110-57-6	05/20/19
Surr:1,2-Dichloroethane-d4 (50-150%)	96.97%		1.00	0.0100	0.0100	10403881	EPA8260		05/20/19
Surr:Bromofluorobenzene (50-150%)	113.03%		1.00	1.00	1.00	10403881	EPA8260	460-00-4	05/20/19
Surr:Toluene-d8 (50-150%)	96.47%		1.00	0.0100	0.0100	10403881	EPA8260		05/20/19
Chloride	14.7	mg/L	1.00	4.00	8.00	10404046	SM4500-CI E	16887-00-6	05/22/19
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10404365	EPA8011	096-18-4	05/24/19
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10404365	EPA8011	106-93-4	05/24/19
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10404365	EPA8011	96-12-8	05/24/19
Ammonia (as N)	0.727	mg/L	1.00	0.0100	0.0200	10404431	EPA350.1	7664-41-7	05/28/19

Lab #: 400469GW2    Sampled: 05/14/19 10:30 AM    Desc: MW-2/297

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Nitrate(as N)	0.0472	mg/L	1.00	0.0100	0.0200	10403435	EPA353.2	14797-55-8	05/15/19 05:37 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10403493	EPA7470	7439-97-6	05/16/19
Field Ground Water Elevation	78.8	ft	1.00	-10.0	-10.0	10403607	FT1000		05/14/19
Field pH (units)	6.88	pH	1.00	0.0100	0.0200	10403608	FT1100	C006	05/14/19



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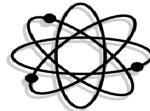
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Lab #: 400469GW2   Sampled: 05/14/19 10:30 AM   Desc: MW-2/297

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Field Conductivity	488	umhos/cm	1.00	0.0100	0.0100	10403609	FT1200		05/14/19
Field Temp. (C)	24.0	oC	1.00	0.0100	0.0100	10403610	FT1400		05/14/19
Field DO	0.590	mg/L	1.00	0.0100	0.0100	10403611	FT1500		05/14/19
Field Turbidity	8.81	NTU	1.00	0.0100	0.0100	10403612	FT1600		05/14/19
TDS	308	mg/L	1.00	2.50	5.00	10403715	SM2540 C	10-33-3	05/16/19
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10403807	EPA6020	7440-36-0	05/16/19
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-38-2	05/16/19
Barium	0.0232	mg/L	1.00	0.00200	0.00400	10403807	EPA6020	7440-39-3	05/16/19
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10403807	EPA6020	7440-41-7	05/16/19
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10403807	EPA6020	7440-43-9	05/16/19
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-47-3	05/16/19
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-48-4	05/16/19
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-50-8	05/16/19
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7439-92-1	05/16/19
Nickel	0.00160 I	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-02-0	05/16/19
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10403807	EPA6020	7782-49-2	05/16/19
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10403807	EPA6020	7440-22-4	05/16/19
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-28-0	05/16/19
Vanadium	0.00210	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-62-2	05/16/19
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10403807	EPA6020	7440-66-6	05/16/19
Iron	2.60	mg/L	1.00	0.0100	0.0200	10403813	EPA6010	7439-89-6	05/20/19
Sodium	16.4	mg/L	1.00	0.500	1.00	10403813	EPA6010	7440-23-5	05/20/19
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	630-20-6	05/20/19
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	71-55-6	05/20/19
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10403881	EPA8260	79-34-5	05/20/19
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	79-00-5	05/20/19
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-34-3	05/20/19
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-35-4	05/20/19
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10403881	EPA8260	107-06-2	05/20/19



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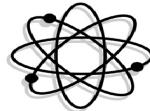
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Lab #: 400469GW2   Sampled: 05/14/19 10:30 AM   Desc: MW-2/297

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10403881	EPA8260	78-87-5	05/20/19
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	78-93-3	05/20/19
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	591-78-6	05/20/19
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10403881	EPA8260	67-64-1	05/20/19
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10403881	EPA8260	107-13-1	05/20/19
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	71-43-2	05/20/19
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10403881	EPA8260	074-97-5	05/20/19
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10403881	EPA8260	75-27-4	05/20/19
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-25-2	05/20/19
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	74-83-9	05/20/19
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	75-15-0	05/20/19
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	56-23-5	05/20/19
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	108-90-7	05/20/19
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-00-3	05/20/19
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	67-66-3	05/20/19
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	74-87-3	05/20/19
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10403881	EPA8260	124-48-1	05/20/19
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	074-95-3	05/20/19
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	100-41-4	05/20/19
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	074-88-4	05/20/19
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	108-10-1	05/20/19
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	75-09-2	05/20/19
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	106-46-7	05/20/19
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	100-42-5	05/20/19
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	127-18-4	05/20/19
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	108-88-3	05/20/19
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	79-01-6	05/20/19
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-69-4	05/20/19
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10403881	EPA8260	108-05-4	05/20/19



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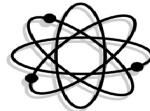
PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 14, 2019  
May 28, 2019; Invoice: 400469

**Lab #:** 400469GW2   **Sampled:** 05/14/19 10:30 AM   **Desc:** MW-2/297

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-01-4	05/20/19
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	1330-20-7	05/20/19
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10403881	EPA8260	156-59-2	05/20/19
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	10061-01-5	05/20/19
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	95-50-1	05/20/19
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	156-60-5	05/20/19
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	10061-02-6	05/20/19
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	110-57-6	05/20/19
Surr:1,2-Dichloroethane-d4 (50-150%)	97.60%		1.00	0.0100	0.0100	10403881	EPA8260		05/20/19
Surr:Bromofluorobenzene (50-150%)	117.87%		1.00	1.00	1.00	10403881	EPA8260	460-00-4	05/20/19
Surr:Toluene-d8 (50-150%)	93.97%		1.00	0.0100	0.0100	10403881	EPA8260		05/20/19
Chloride	20.6	mg/L	1.00	4.00	8.00	10404046	SM4500-CI E	16887-00-6	05/22/19
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10404365	EPA8011	096-18-4	05/24/19
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10404365	EPA8011	106-93-4	05/24/19
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10404365	EPA8011	96-12-8	05/24/19
Ammonia (as N)	0.0919	mg/L	1.00	0.0100	0.0200	10404431	EPA350.1	7664-41-7	05/28/19

**Lab #:** 400469GW3   **Sampled:** 05/14/19 12:00 PM   **Desc:** MW-1/296

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10403435	EPA353.2	14797-55-8	05/15/19 05:37 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10403493	EPA7470	7439-97-6	05/16/19
Field Ground Water Elevation	82.3	ft	1.00	-10.0	-10.0	10403607	FT1000		05/14/19
Field pH (units)	4.79	pH	1.00	0.0100	0.0200	10403608	FT1100	C006	05/14/19
Field Conductivity	153	umhos/cm	1.00	0.0100	0.0100	10403609	FT1200		05/14/19
Field Temp. (C)	23.6	oC	1.00	0.0100	0.0100	10403610	FT1400		05/14/19
Field DO	0.440	mg/L	1.00	0.0100	0.0100	10403611	FT1500		05/14/19
Field Turbidity	19.5	NTU	1.00	0.0100	0.0100	10403612	FT1600		05/14/19
TDS	212	mg/L	1.00	2.50	5.00	10403715	SM2540 C	10-33-3	05/16/19
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10403807	EPA6020	7440-36-0	05/16/19



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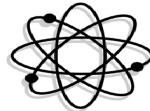
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Atkins-Tampa  
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Tampa, FL 33607

PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 14, 2019  
May 28, 2019; Invoice: 400469

Lab #: 400469GW3   Sampled: 05/14/19 12:00 PM   Desc: MW-1/296

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Arsenic	0.00510	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-38-2	05/16/19
Barium	0.0117	mg/L	1.00	0.00200	0.00400	10403807	EPA6020	7440-39-3	05/16/19
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10403807	EPA6020	7440-41-7	05/16/19
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10403807	EPA6020	7440-43-9	05/16/19
Chromium	0.0216	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-47-3	05/16/19
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-48-4	05/16/19
Copper	0.00180 I	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-50-8	05/16/19
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7439-92-1	05/16/19
Nickel	0.00330	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-02-0	05/16/19
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10403807	EPA6020	7782-49-2	05/16/19
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10403807	EPA6020	7440-22-4	05/16/19
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-28-0	05/16/19
Vanadium	0.0138	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-62-2	05/16/19
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10403807	EPA6020	7440-66-6	05/16/19
Iron	4.92	mg/L	1.00	0.0100	0.0200	10403813	EPA6010	7439-89-6	05/20/19
Sodium	10.2	mg/L	1.00	0.500	1.00	10403813	EPA6010	7440-23-5	05/20/19
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	630-20-6	05/20/19
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	71-55-6	05/20/19
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10403881	EPA8260	79-34-5	05/20/19
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	79-00-5	05/20/19
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-34-3	05/20/19
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-35-4	05/20/19
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10403881	EPA8260	107-06-2	05/20/19
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10403881	EPA8260	78-87-5	05/20/19
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	78-93-3	05/20/19
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	591-78-6	05/20/19
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10403881	EPA8260	67-64-1	05/20/19
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10403881	EPA8260	107-13-1	05/20/19
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	71-43-2	05/20/19



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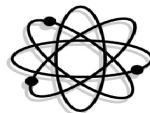
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PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 14, 2019  
May 28, 2019; Invoice: 400469

Lab #: 400469GW3   Sampled: 05/14/19 12:00 PM   Desc: MW-1/296

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10403881	EPA8260	074-97-5	05/20/19
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10403881	EPA8260	75-27-4	05/20/19
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-25-2	05/20/19
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	74-83-9	05/20/19
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	75-15-0	05/20/19
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	56-23-5	05/20/19
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	108-90-7	05/20/19
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-00-3	05/20/19
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	67-66-3	05/20/19
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	74-87-3	05/20/19
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10403881	EPA8260	124-48-1	05/20/19
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	074-95-3	05/20/19
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	100-41-4	05/20/19
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	074-88-4	05/20/19
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	108-10-1	05/20/19
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	75-09-2	05/20/19
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	106-46-7	05/20/19
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	100-42-5	05/20/19
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	127-18-4	05/20/19
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	108-88-3	05/20/19
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	79-01-6	05/20/19
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-69-4	05/20/19
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10403881	EPA8260	108-05-4	05/20/19
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-01-4	05/20/19
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	1330-20-7	05/20/19
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10403881	EPA8260	156-59-2	05/20/19
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	10061-01-5	05/20/19
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	95-50-1	05/20/19
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	156-60-5	05/20/19



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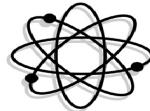
PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 14, 2019  
May 28, 2019; Invoice: 400469

**Lab #:** 400469GW3   **Sampled:** 05/14/19 12:00 PM   **Desc:** MW-1/296

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	10061-02-6	05/20/19
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	110-57-6	05/20/19
Surr:1,2-Dichloroethane-d4 (50-150%)	98.30%		1.00	0.0100	0.0100	10403881	EPA8260		05/20/19
Surr:Bromofluorobenzene (50-150%)	121.47%		1.00	1.00	1.00	10403881	EPA8260	460-00-4	05/20/19
Surr:Toluene-d8 (50-150%)	91.40%		1.00	0.0100	0.0100	10403881	EPA8260		05/20/19
Chloride	17.4	mg/L	1.00	4.00	8.00	10404046	SM4500-CI E	16887-00-6	05/22/19
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10404365	EPA8011	096-18-4	05/24/19
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10404365	EPA8011	106-93-4	05/24/19
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10404365	EPA8011	96-12-8	05/24/19
Ammonia (as N)	0.153	mg/L	1.00	0.0100	0.0200	10404431	EPA350.1	7664-41-7	05/28/19

**Lab #:** 400469GW4   **Sampled:** 05/14/19 01:05 PM   **Desc:** MW-14/29064

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Nitrate(as N)	0.0102 I	mg/L	1.00	0.0100	0.0200	10403435	EPA353.2	14797-55-8	05/15/19 05:37 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10403493	EPA7470	7439-97-6	05/16/19
Field Ground Water Elevation	82.8	ft	1.00	-10.0	-10.0	10403607	FT1000		05/14/19
Field pH (units)	6.69	pH	1.00	0.0100	0.0200	10403608	FT1100	C006	05/14/19
Field Conductivity	656	umhos/cm	1.00	0.0100	0.0100	10403609	FT1200		05/14/19
Field Temp. (C)	24.7	oC	1.00	0.0100	0.0100	10403610	FT1400		05/14/19
Field DO	0.950	mg/L	1.00	0.0100	0.0100	10403611	FT1500		05/14/19
Field Turbidity	1.35	NTU	1.00	0.0100	0.0100	10403612	FT1600		05/14/19
TDS	286	mg/L	1.00	2.50	5.00	10403715	SM2540 C	10-33-3	05/16/19
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10403807	EPA6020	7440-36-0	05/16/19
Arsenic	0.00270	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-38-2	05/16/19
Barium	0.00410	mg/L	1.00	0.00200	0.00400	10403807	EPA6020	7440-39-3	05/16/19
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10403807	EPA6020	7440-41-7	05/16/19
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10403807	EPA6020	7440-43-9	05/16/19
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-47-3	05/16/19
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-48-4	05/16/19



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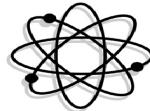
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PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 14, 2019  
May 28, 2019; Invoice: 400469

Lab #: 400469GW4   Sampled: 05/14/19 01:05 PM   Desc: MW-14/29064

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-50-8	05/16/19
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7439-92-1	05/16/19
Nickel	0.00160 I	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-02-0	05/16/19
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10403807	EPA6020	7782-49-2	05/16/19
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10403807	EPA6020	7440-22-4	05/16/19
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-28-0	05/16/19
Vanadium	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-62-2	05/16/19
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10403807	EPA6020	7440-66-6	05/16/19
Iron	0.162	mg/L	1.00	0.0100	0.0200	10403813	EPA6010	7439-89-6	05/20/19
Sodium	18.2	mg/L	1.00	0.500	1.00	10403813	EPA6010	7440-23-5	05/20/19
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	630-20-6	05/20/19
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	71-55-6	05/20/19
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10403881	EPA8260	79-34-5	05/20/19
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	79-00-5	05/20/19
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-34-3	05/20/19
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-35-4	05/20/19
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10403881	EPA8260	107-06-2	05/20/19
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10403881	EPA8260	78-87-5	05/20/19
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	78-93-3	05/20/19
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	591-78-6	05/20/19
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10403881	EPA8260	67-64-1	05/20/19
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10403881	EPA8260	107-13-1	05/20/19
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	71-43-2	05/20/19
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10403881	EPA8260	074-97-5	05/20/19
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10403881	EPA8260	75-27-4	05/20/19
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-25-2	05/20/19
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	74-83-9	05/20/19
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	75-15-0	05/20/19
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	56-23-5	05/20/19



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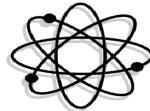
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Atkins-Tampa  
4030 W. Boy Scout Blvd, Ste 700  
Tampa, FL 33607

PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 14, 2019  
May 28, 2019; Invoice: 400469

Lab #: 400469GW4   Sampled: 05/14/19 01:05 PM   Desc: MW-14/29064

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed	
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	108-90-7	05/20/19	
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-00-3	05/20/19	
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	67-66-3	05/20/19	
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	74-87-3	05/20/19	
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10403881	EPA8260	124-48-1	05/20/19	
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	074-95-3	05/20/19	
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	100-41-4	05/20/19	
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	074-88-4	05/20/19	
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	108-10-1	05/20/19	
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	75-09-2	05/20/19	
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	106-46-7	05/20/19	
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	100-42-5	05/20/19	
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	127-18-4	05/20/19	
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	108-88-3	05/20/19	
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	79-01-6	05/20/19	
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-69-4	05/20/19	
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10403881	EPA8260	108-05-4	05/20/19	
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-01-4	05/20/19	
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	1330-20-7	05/20/19	
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10403881	EPA8260	156-59-2	05/20/19	
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	10061-01-5	05/20/19	
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	95-50-1	05/20/19	
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	156-60-5	05/20/19	
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	10061-02-6	05/20/19	
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	110-57-6	05/20/19	
Surr:1,2-Dichloroethane-d4 (50-150%)	97.93%			1.00	0.0100	0.0100	10403881	EPA8260	05/20/19	
Surr:Bromofluorobenzene (50-150%)	125.40%			1.00	1.00	1.00	10403881	EPA8260	460-00-4	05/20/19
Surr:Toluene-d8 (50-150%)	93.03%			1.00	0.0100	0.0100	10403881	EPA8260	05/20/19	
Chloride	22.9	mg/L	1.00	4.00	8.00	10404046	SM4500-CI E	16887-00-6	05/22/19	



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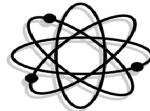
PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 14, 2019  
May 28, 2019; Invoice: 400469

**Lab #:** 400469GW4   **Sampled:** 05/14/19 01:05 PM   **Desc:** MW-14/29064

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed	
1,2,3-Trichloropropane	0.0200	U	ug/L	1.00	0.0200	0.0400	10404365	EPA8011	096-18-4	05/24/19
1,2-Dibromoethane (EDB)	0.0100	U	ug/L	1.00	0.0100	0.0200	10404365	EPA8011	106-93-4	05/24/19
1,2-dibromo-3-chloropropane	0.0200	U	ug/L	1.00	0.0200	0.0400	10404365	EPA8011	96-12-8	05/24/19
Ammonia (as N)	0.224		mg/L	1.00	0.0100	0.0200	10404431	EPA350.1	7664-41-7	05/28/19

**Lab #:** 400469GW5   **Sampled:** 05/14/19 02:00 PM   **Desc:** MW-13/29063

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed	
Nitrate(as N)	0.0808	mg/L	1.00	0.0100	0.0200	10403435	EPA353.2	14797-55-8	05/15/19 05:37 PM	
Mercury	0.0000200	U	mg/L	1.00	0.0000200	0.0000400	10403493	EPA7470	7439-97-6	05/16/19
Field Ground Water Elevation	80.9	ft	1.00	-10.0	-10.0	10403607	FT1000		05/14/19	
Field pH (units)	5.19	pH	1.00	0.0100	0.0200	10403608	FT1100	C006	05/14/19	
Field Conductivity	596	umhos/cm	1.00	0.0100	0.0100	10403609	FT1200		05/14/19	
Field Temp. (C)	23.9	oC	1.00	0.0100	0.0100	10403610	FT1400		05/14/19	
Field DO	1.89	mg/L	1.00	0.0100	0.0100	10403611	FT1500		05/14/19	
Field Turbidity	1.56	NTU	1.00	0.0100	0.0100	10403612	FT1600		05/14/19	
TDS	62.0	mg/L	1.00	2.50	5.00	10403715	SM2540 C	10-33-3	05/16/19	
Antimony	0.00200	U	mg/L	1.00	0.00200	0.00800	10403807	EPA6020	7440-36-0	05/16/19
Arsenic	0.00100	U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-38-2	05/16/19
Barium	0.00200	U	mg/L	1.00	0.00200	0.00400	10403807	EPA6020	7440-39-3	05/16/19
Beryllium	0.000500	U	mg/L	1.00	0.000500	0.00100	10403807	EPA6020	7440-41-7	05/16/19
Cadmium	0.000200	U	mg/L	1.00	0.000200	0.000400	10403807	EPA6020	7440-43-9	05/16/19
Chromium	0.00100	U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-47-3	05/16/19
Cobalt	0.00100	U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-48-4	05/16/19
Copper	0.00100	U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-50-8	05/16/19
Lead	0.00100	U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7439-92-1	05/16/19
Nickel	0.00100	U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-02-0	05/16/19
Selenium	0.00200	U	mg/L	1.00	0.00200	0.00400	10403807	EPA6020	7782-49-2	05/16/19
Silver	0.000500	U	mg/L	1.00	0.000500	0.00100	10403807	EPA6020	7440-22-4	05/16/19
Thallium	0.00100	U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-28-0	05/16/19



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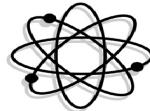
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Atkins-Tampa  
4030 W. Boy Scout Blvd, Ste 700  
Tampa, FL 33607

PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 14, 2019  
May 28, 2019; Invoice: 400469

Lab #: 400469GW5   Sampled: 05/14/19 02:00 PM   Desc: MW-13/29063

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Vanadium	0.00190 I	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-62-2	05/16/19
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10403807	EPA6020	7440-66-6	05/16/19
Iron	0.310	mg/L	1.00	0.0100	0.0200	10403813	EPA6010	7439-89-6	05/20/19
Sodium	6.36	mg/L	1.00	0.500	1.00	10403813	EPA6010	7440-23-5	05/20/19
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	630-20-6	05/20/19
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	71-55-6	05/20/19
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10403881	EPA8260	79-34-5	05/20/19
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	79-00-5	05/20/19
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-34-3	05/20/19
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-35-4	05/20/19
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10403881	EPA8260	107-06-2	05/20/19
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10403881	EPA8260	78-87-5	05/20/19
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	78-93-3	05/20/19
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	591-78-6	05/20/19
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10403881	EPA8260	67-64-1	05/20/19
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10403881	EPA8260	107-13-1	05/20/19
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	71-43-2	05/20/19
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10403881	EPA8260	074-97-5	05/20/19
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10403881	EPA8260	75-27-4	05/20/19
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-25-2	05/20/19
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	74-83-9	05/20/19
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	75-15-0	05/20/19
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	56-23-5	05/20/19
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	108-90-7	05/20/19
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-00-3	05/20/19
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	67-66-3	05/20/19
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	74-87-3	05/20/19
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10403881	EPA8260	124-48-1	05/20/19
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	074-95-3	05/20/19



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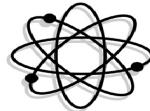
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Date Sampled: May 14, 2019  
May 28, 2019; Invoice: 400469

Lab #: 400469GW5   Sampled: 05/14/19 02:00 PM   Desc: MW-13/29063

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	100-41-4	05/20/19
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	074-88-4	05/20/19
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	108-10-1	05/20/19
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	75-09-2	05/20/19
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	106-46-7	05/20/19
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	100-42-5	05/20/19
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	127-18-4	05/20/19
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	108-88-3	05/20/19
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	79-01-6	05/20/19
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-69-4	05/20/19
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10403881	EPA8260	108-05-4	05/20/19
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-01-4	05/20/19
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	1330-20-7	05/20/19
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10403881	EPA8260	156-59-2	05/20/19
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	10061-01-5	05/20/19
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	95-50-1	05/20/19
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	156-60-5	05/20/19
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	10061-02-6	05/20/19
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	110-57-6	05/20/19
Surr:1,2-Dichloroethane-d4 (50-150%)	97.57%		1.00	0.0100	0.0100	10403881	EPA8260		05/20/19
Surr:Bromofluorobenzene (50-150%)	116.33%		1.00	1.00	1.00	10403881	EPA8260	460-00-4	05/20/19
Surr:Toluene-d8 (50-150%)	91.47%		1.00	0.0100	0.0100	10403881	EPA8260		05/20/19
Chloride	9.21	mg/L	1.00	4.00	8.00	10404046	SM4500-CI E	16887-00-6	05/22/19
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10404365	EPA8011	096-18-4	05/24/19
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10404365	EPA8011	106-93-4	05/24/19
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10404365	EPA8011	96-12-8	05/24/19
Ammonia (as N)	0.0638	mg/L	1.00	0.0100	0.0200	10404431	EPA350.1	7664-41-7	05/28/19



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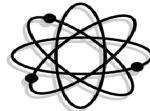
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Atkins-Tampa  
4030 W. Boy Scout Blvd, Ste 700  
Tampa, FL 33607

PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 14, 2019  
May 28, 2019; Invoice: 400469

Lab #: 400469GW6   Sampled: 05/14/19 03:15 PM   Desc: MW-12R/22931

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10403435	EPA353.2	14797-55-8	05/15/19 05:37 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10403494	EPA7470	7439-97-6	05/16/19
Field Ground Water Elevation	79.1	ft	1.00	-10.0	-10.0	10403607	FT1000		05/14/19
Field pH (units)	6.60	pH	1.00	0.0100	0.0200	10403608	FT1100	C006	05/14/19
Field Conductivity	1020	umhos/cm	1.00	0.0100	0.0100	10403609	FT1200		05/14/19
Field Temp. (C)	24.1	oC	1.00	0.0100	0.0100	10403610	FT1400		05/14/19
Field DO	0.380	mg/L	1.00	0.0100	0.0100	10403611	FT1500		05/14/19
Field Turbidity	1.57	NTU	1.00	0.0100	0.0100	10403612	FT1600		05/14/19
TDS	242	mg/L	1.00	2.50	5.00	10403715	SM2540 C	10-33-3	05/16/19
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10403807	EPA6020	7440-36-0	05/16/19
Arsenic	0.00360	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-38-2	05/16/19
Barium	0.00480	mg/L	1.00	0.00200	0.00400	10403807	EPA6020	7440-39-3	05/16/19
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10403807	EPA6020	7440-41-7	05/16/19
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10403807	EPA6020	7440-43-9	05/16/19
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-47-3	05/16/19
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-48-4	05/16/19
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-50-8	05/16/19
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7439-92-1	05/16/19
Nickel	0.00120 I	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-02-0	05/16/19
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10403807	EPA6020	7782-49-2	05/16/19
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10403807	EPA6020	7440-22-4	05/16/19
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-28-0	05/16/19
Vanadium	0.00190 I	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-62-2	05/16/19
Zinc	0.0231	mg/L	1.00	0.0100	0.0200	10403807	EPA6020	7440-66-6	05/16/19
Iron	0.204	mg/L	1.00	0.0100	0.0200	10403813	EPA6010	7439-89-6	05/20/19
Sodium	12.2	mg/L	1.00	0.500	1.00	10403813	EPA6010	7440-23-5	05/20/19
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	630-20-6	05/20/19
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	71-55-6	05/20/19
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10403881	EPA8260	79-34-5	05/20/19



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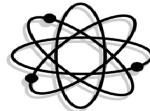
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Atkins-Tampa  
4030 W. Boy Scout Blvd, Ste 700  
Tampa, FL 33607

PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 14, 2019  
May 28, 2019; Invoice: 400469

Lab #: 400469GW6   Sampled: 05/14/19 03:15 PM   Desc: MW-12R/22931

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	79-00-5	05/20/19
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-34-3	05/20/19
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-35-4	05/20/19
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10403881	EPA8260	107-06-2	05/20/19
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10403881	EPA8260	78-87-5	05/20/19
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	78-93-3	05/20/19
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	591-78-6	05/20/19
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10403881	EPA8260	67-64-1	05/20/19
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10403881	EPA8260	107-13-1	05/20/19
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	71-43-2	05/20/19
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10403881	EPA8260	074-97-5	05/20/19
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10403881	EPA8260	75-27-4	05/20/19
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-25-2	05/20/19
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	74-83-9	05/20/19
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	75-15-0	05/20/19
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	56-23-5	05/20/19
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	108-90-7	05/20/19
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-00-3	05/20/19
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	67-66-3	05/20/19
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	74-87-3	05/20/19
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10403881	EPA8260	124-48-1	05/20/19
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	074-95-3	05/20/19
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	100-41-4	05/20/19
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	074-88-4	05/20/19
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	108-10-1	05/20/19
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	75-09-2	05/20/19
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	106-46-7	05/20/19
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	100-42-5	05/20/19
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	127-18-4	05/20/19



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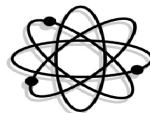
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Atkins-Tampa  
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Tampa, FL 33607

PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 14, 2019  
May 28, 2019; Invoice: 400469

Lab #: 400469GW6   Sampled: 05/14/19 03:15 PM   Desc: MW-12R/22931

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	108-88-3	05/20/19
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	79-01-6	05/20/19
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-69-4	05/20/19
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10403881	EPA8260	108-05-4	05/20/19
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-01-4	05/20/19
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	1330-20-7	05/20/19
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10403881	EPA8260	156-59-2	05/20/19
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	10061-01-5	05/20/19
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	95-50-1	05/20/19
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	156-60-5	05/20/19
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	10061-02-6	05/20/19
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	110-57-6	05/20/19
Surr:1,2-Dichloroethane-d4 (50-150%)	102.57%		1.00	0.0100	0.0100	10403881	EPA8260		05/20/19
Surr:Bromofluorobenzene (50-150%)	164.13%		1.00	1.00	1.00	10403881	EPA8260	460-00-4	05/20/19
Surr:Toluene-d8 (50-150%)	94.03%		1.00	0.0100	0.0100	10403881	EPA8260		05/20/19
Chloride	11.4	mg/L	1.00	4.00	8.00	10404046	SM4500-CI E	16887-00-6	05/22/19
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10404365	EPA8011	096-18-4	05/24/19
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10404365	EPA8011	106-93-4	05/24/19
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10404365	EPA8011	96-12-8	05/24/19
Ammonia (as N)	0.219	mg/L	1.00	0.0100	0.0200	10404431	EPA350.1	7664-41-7	05/28/19



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PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 14, 2019  
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## Quality Report

**Quality Control Batch: 10403435**

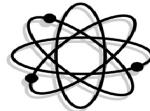
		Analyst: PCW			
Blank	Result	Units	Spike	%REC	%REC Lim
Nitrate(as N)	0.0100U	mg/L			
Laboratory Control Sample					
Nitrate(as N)	1.06	mg/L	1.00	105.70	90.00-110.00

**Quality Control Batch: 10403493**

		Analyst: EVB					
Blank	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number
Mercury	0.0000200U	mg/L					
Laboratory Control Sample							
Mercury	0.000984	mg/L	0.00100	98.42	80.00-120.00		
Matrix Spike							
Mercury	0.00295	mg/L	0.00300	98.82	80.00-120.00	-0.0000116	399929DW1
Matrix Spike Duplicate							
Mercury	0.00296	mg/L	0.00300	98.89	80.00-120.00	-0.0000116	0.07 RPD 20.00 RPD Lim

**Quality Control Batch: 10403494**

		Analyst: EVB					
Blank	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number
Mercury	0.0000200U	mg/L					
Laboratory Control Sample							
Mercury	0.000984	mg/L	0.00100	98.42	80.00-120.00		



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**Quality Control Batch: 10403715****Analyst: PLB**

Blank	Result	Units
TDS	2.50U	mg/L

**Laboratory Control Sample**

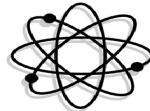
	Result	Units	Spike	%REC	%REC Lim
TDS	1470	mg/L	1500	97.87	80.00-120.00

**Duplicate**

	Result	Units	Sample	RPD	RPD Lim	Lab Number
TDS	134	mg/L	136	1.48	20.00	400486GW1

**Quality Control Batch: 10403807****Analyst: EVB**

Blank	Result	Units
Antimony	0.00200U	mg/L
Arsenic	0.00100U	mg/L
Barium	0.00200U	mg/L
Beryllium	0.000500U	mg/L
Cadmium	0.000200U	mg/L
Chromium	0.00100U	mg/L
Cobalt	0.00100U	mg/L
Copper	0.00100U	mg/L
Lead	0.00100U	mg/L
Nickel	0.00100U	mg/L
Selenium	0.00200U	mg/L
Silver	0.000500U	mg/L
Thallium	0.00100U	mg/L



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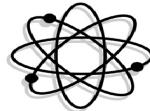
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Quality Control Batch: 10403807		Analyst: EVB			
Blank	Result	Units	Spike	%REC	%REC Lim
Vanadium	0.00100U	mg/L			
Zinc	0.0100U	mg/L			
Laboratory Control Sample		Result	Units	Spike	%REC
Antimony	0.0909	mg/L	0.100	90.90	80.00-120.00
Arsenic	0.0996	mg/L	0.100	99.60	80.00-120.00
Barium	0.107	mg/L	0.100	106.50	80.00-120.00
Beryllium	0.111	mg/L	0.100	110.60	80.00-120.00
Cadmium	0.0999	mg/L	0.100	99.90	80.00-120.00
Chromium	0.0973	mg/L	0.100	97.30	80.00-120.00
Cobalt	0.0975	mg/L	0.100	97.50	80.00-120.00
Copper	0.0973	mg/L	0.100	97.30	80.00-120.00
Lead	0.105	mg/L	0.100	105.20	80.00-120.00
Nickel	0.102	mg/L	0.100	101.80	80.00-120.00
Selenium	0.0961	mg/L	0.100	96.10	80.00-120.00
Silver	0.0998	mg/L	0.100	99.80	80.00-120.00
Thallium	0.103	mg/L	0.100	103.10	80.00-120.00
Vanadium	0.0962	mg/L	0.100	96.20	80.00-120.00
Zinc	0.106	mg/L	0.100	106.00	80.00-120.00
Matrix Spike		Result	Units	Spike	%REC
Antimony	0.174	mg/L	0.150	116.13	75.00-125.00
Arsenic	0.159	mg/L	0.150	99.00	75.00-125.00
Barium	0.148	mg/L	0.150	91.13	75.00-125.00
Beryllium	0.141	mg/L	0.150	94.20	75.00-125.00
Cadmium	0.154	mg/L	0.150	102.60	75.00-125.00
Chromium	0.189	mg/L	0.150	122.93	75.00-125.00
Cobalt	0.181	mg/L	0.150	120.40	75.00-125.00
Copper	0.173	mg/L	0.150	115.13	75.00-125.00
		Sample	Lab Number		
		0.00200U	400469GW1		
		0.0106	400469GW1		
		0.0113	400469GW1		
		0.000500U	400469GW1		
		0.000200U	400469GW1		
		0.00460	400469GW1		
		0.00100U	400469GW1		
		0.00100U	400469GW1		



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Atkins-Tampa  
4030 W. Boy Scout Blvd, Ste 700  
Tampa, FL 33607

PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 14, 2019  
May 28, 2019; Invoice: 400469

**Quality Control Batch: 10403807****Matrix Spike**

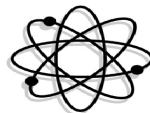
	<b>Analyst:</b> EVB						
	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>Lab Number</b>
Lead	0.175	mg/L	0.150	116.53	75.00-125.00	0.00100U	400469GW1
Nickel	0.179	mg/L	0.150	118.40	75.00-125.00	0.00120	400469GW1
Selenium	0.135	mg/L	0.150	89.67	75.00-125.00	0.00200U	400469GW1
Silver	0.175	mg/L	0.150	116.53	75.00-125.00	0.000500U	400469GW1
Thallium	0.172	mg/L	0.150	114.87	75.00-125.00	0.00100U	400469GW1
Vanadium	0.201	mg/L	0.150	124.27	75.00-125.00	0.0150	400469GW1
Zinc	0.152	mg/L	0.150	101.20	75.00-125.00	0.0100U	400469GW1

**Matrix Spike Duplicate**

	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>	<b>RPD Lim</b>
Antimony	0.168	mg/L	0.150	112.27	75.00-125.00	0.00200U	3.39	40.00
Arsenic	0.158	mg/L	0.150	98.40	75.00-125.00	0.0106	0.57	20.00
Barium	0.149	mg/L	0.150	92.00	75.00-125.00	0.0113	0.87	20.00
Beryllium	0.149	mg/L	0.150	99.07	75.00-125.00	0.000500U	5.04	40.00
Cadmium	0.152	mg/L	0.150	101.47	75.00-125.00	0.000200U	1.11	20.00
Chromium	0.182	mg/L	0.150	118.53	75.00-125.00	0.00460	3.55	20.00
Cobalt	0.175	mg/L	0.150	116.73	75.00-125.00	0.00100U	3.09	40.00
Copper	0.168	mg/L	0.150	111.87	75.00-125.00	0.00100U	2.88	20.00
Lead	0.178	mg/L	0.150	118.67	75.00-125.00	0.00100U	1.81	20.00
Nickel	0.174	mg/L	0.150	114.87	75.00-125.00	0.00120	3.01	20.00
Selenium	0.134	mg/L	0.150	89.53	75.00-125.00	0.00200U	0.15	20.00
Silver	0.172	mg/L	0.150	114.87	75.00-125.00	0.000500U	1.44	20.00
Thallium	0.177	mg/L	0.150	118.07	75.00-125.00	0.00100U	2.75	40.00
Vanadium	0.192	mg/L	0.150	118.27	75.00-125.00	0.0150	4.57	20.00
Zinc	0.149	mg/L	0.150	99.27	75.00-125.00	0.0100U	1.93	20.00

**Quality Control Batch: 10403813****Blank**

	<b>Result</b>	<b>Units</b>
Iron	0.0100U	mg/L
Sodium	0.500U	mg/L



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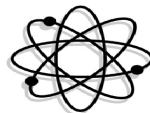
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Atkins-Tampa  
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PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 14, 2019  
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Quality Control Batch: 10403813		Analyst: EVB					
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim	
Iron		5.00	mg/L	5.00	100.02	80.00-120.00	
Sodium		5.06	mg/L	5.00	101.18	80.00-120.00	
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample
Iron		6.47	mg/L	5.00	92.49	80.00-120.00	1.84
Sodium		6.67	mg/L	5.00	94.89	75.00-125.00	1.92
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample
Iron		6.33	mg/L	5.00	89.78	80.00-120.00	1.84
Sodium		6.61	mg/L	5.00	93.74	75.00-125.00	1.92
Quality Control Batch: 10403881		Analyst: BNP					
Blank		Result	Units				
1,1,1,2-Tetrachloroethane		0.500U	ug/L				
1,1,1-Trichloroethane		0.500U	ug/L				
1,1,2,2-Tetrachloroethane		0.100U	ug/L				
1,1,2-Trichloroethane		0.500U	ug/L				
1,1-Dichloroethane		0.500U	ug/L				
1,1-Dichloroethene		0.500U	ug/L				
1,2-dichloroethane		0.500U	ug/L				
1,2-dichloropropane		0.200U	ug/L				
2-Butanone (MEK)		1.00U	ug/L				
2-Hexanone		0.500U	ug/L				
Acetone		5.00U	ug/L				
Acrylonitrile		0.300U	ug/L				
Benzene		0.500U	ug/L				
Bromochloromethane		0.100U	ug/L				
Bromodichloromethane		0.100U	ug/L				
Bromoform		0.500U	ug/L				



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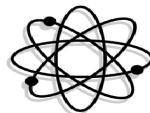
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PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
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**Quality Control Batch:** 10403881

<b>Blank</b>	<b>Analyst:</b> BNP	
	<b>Result</b>	<b>Units</b>
Bromomethane	0.500U	ug/L
Carbon Disulfide	1.00U	ug/L
Carbon Tetrachloride	0.500U	ug/L
Chlorobenzene	0.500U	ug/L
Chloroethane	0.500U	ug/L
Chloroform	0.500U	ug/L
Chloromethane	0.500U	ug/L
Dibromochloromethane	0.400U	ug/L
Dibromomethane	0.500U	ug/L
Ethylbenzene	0.500U	ug/L
Methyl Iodide	1.00U	ug/L
Methyl isobutyl ketone	1.00U	ug/L
Methylene chloride	1.00U	ug/L
Para-dichlorobenzene	0.500U	ug/L
Styrene	0.500U	ug/L
Tetrachloroethene	0.500U	ug/L
Toluene	0.500U	ug/L
Trichloroethene	0.500U	ug/L
Trichlorofluoromethane	0.500U	ug/L
Vinyl Acetate	10.0U	ug/L
Vinyl chloride	0.500U	ug/L
Xylenes	0.500U	ug/L
cis-1,2-dichloroethene	0.200U	ug/L
cis-1,3-Dichloropropene	0.500U	ug/L
o-dichlorobenzene	0.500U	ug/L
trans-1,2-dichloroethene	0.500U	ug/L
trans-1,3,-Dichloropropene	0.500U	ug/L
trans-1,4-dichloro-2-butene	1.00U	ug/L
Surr:1,2-Dichloroethane-d4	0.0100U	ug/L



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**Quality Control Batch:** 10403881

**Blank**

Surr:Bromofluorobenzene  
Surr:Toluene-d8

**Analyst:** BNP

<b>Result</b>	<b>Units</b>
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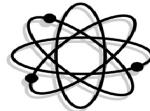
1.00U	ug/L
0.0100U	ug/L

**Laboratory Control Sample**

1,1,1,2-Tetrachloroethane  
1,1,1-Trichloroethane  
1,1,2,2-Tetrachloroethane  
1,1,2-Trichloroethane  
1,1-Dichloroethane  
1,1-Dichloroethene  
1,2-dichloroethane  
1,2-dichloropropane  
2-Butanone (MEK)  
2-Hexanone  
Acetone  
Acrylonitrile  
Benzene  
Bromochloromethane  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon Disulfide  
Carbon Tetrachloride  
Chlorobenzene  
Chloroethane  
Chloroform  
Chloromethane  
Dibromochloromethane  
Dibromomethane

<b>Result</b>	<b>Units</b>
---------------	--------------

37.7	ug/L	40.0	94.30	50.00-150.00
43.1	ug/L	40.0	107.62	50.00-150.00
39.0	ug/L	40.0	97.60	50.00-150.00
35.7	ug/L	40.0	89.12	50.00-150.00
38.2	ug/L	40.0	95.38	50.00-150.00
34.5	ug/L	40.0	86.32	50.00-150.00
39.8	ug/L	40.0	99.40	50.00-150.00
43.3	ug/L	40.0	108.25	50.00-150.00
41.6	ug/L	40.0	104.10	50.00-150.00
33.8	ug/L	40.0	84.53	50.00-150.00
41.1	ug/L	40.0	102.78	50.00-150.00
40.5	ug/L	40.0	101.15	50.00-150.00
40.6	ug/L	40.0	101.60	50.00-150.00
42.0	ug/L	40.0	105.00	50.00-150.00
45.8	ug/L	40.0	114.37	70.00-130.00
36.8	ug/L	40.0	92.05	50.00-130.00
31.8	ug/L	40.0	79.53	50.00-150.00
36.6	ug/L	40.0	91.47	50.00-150.00
42.0	ug/L	40.0	105.08	50.00-150.00
36.4	ug/L	40.0	90.87	50.00-150.00
30.7	ug/L	40.0	76.70	50.00-150.00
36.5	ug/L	40.0	91.12	50.00-150.00
30.3	ug/L	40.0	75.72	50.00-150.00
37.8	ug/L	40.0	94.45	50.00-150.00
41.7	ug/L	40.0	104.17	50.00-150.00



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**Quality Control Batch:** 10403881

**Laboratory Control Sample**

	<b>Analyst:</b> BNP				
	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>
Ethylbenzene	38.0	ug/L	40.0	94.98	50.00-150.00
Methyl Iodide	38.8	ug/L	40.0	96.93	50.00-150.00
Methyl isobutyl ketone	38.0	ug/L	40.0	95.02	50.00-150.00
Methylene chloride	41.7	ug/L	40.0	104.32	50.00-150.00
Para-dichlorobenzene	33.0	ug/L	40.0	82.55	50.00-150.00
Styrene	39.1	ug/L	40.0	97.80	50.00-150.00
Tetrachloroethene	32.3	ug/L	40.0	80.70	50.00-150.00
Toluene	33.4	ug/L	40.0	83.57	50.00-150.00
Trichloroethene	41.7	ug/L	40.0	104.20	50.00-150.00
Trichlorofluoromethane	34.9	ug/L	40.0	87.12	50.00-150.00
Vinyl chloride	27.0	ug/L	40.0	67.55	50.00-150.00
Xylenes	122	ug/L	120	102.06	50.00-150.00
cis-1,2-dichloroethene	42.0	ug/L	40.0	105.08	50.00-150.00
cis-1,3-Dichloropropene	39.3	ug/L	40.0	98.28	50.00-150.00
o-dichlorobenzene	36.0	ug/L	40.0	90.02	50.00-150.00
trans-1,2-dichloroethene	39.4	ug/L	40.0	98.55	50.00-150.00
trans-1,3,-Dichloropropene	38.1	ug/L	40.0	95.17	50.00-150.00
Surr:1,2-Dichloroethane-d4	27.8	ug/L	30.0	92.63	50.00-150.00
Surr:Bromofluorobenzene	30.0	ug/L	30.0	100.10	50.00-150.00
Surr:Toluene-d8	30.6	ug/L	30.0	101.93	50.00-150.00

**Quality Control Batch:** 10404046

**Blank**

Chloride

**Laboratory Control Sample**

Chloride

**Analyst:** VLB

**Result**

**Units**

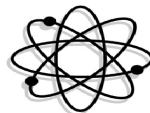
**Result**

**Units**

**Spike**

**%REC**

**%REC Lim**



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<b>Matrix Spike</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>Lab Number</b>
Chloride	121	mg/L	100	111.67	80.00-120.00	9.21	400469GW5

<b>Matrix Spike Duplicate</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>	<b>RPD Lim</b>
Chloride	120	mg/L	100	110.45	80.00-120.00	9.21	1.02	20.00

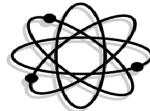
<b>Quality Control Batch: 10404365</b>	<b>Analyst: DLJ</b>					
<b>Blank</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	
1,2,3-Trichloropropane	0.0200U	ug/L				
1,2-Dibromoethane (EDB)	0.0100U	ug/L				
1,2-dibromo-3-chloropropane	0.0200U	ug/L				

<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>
1,2,3-Trichloropropane	0.225	ug/L	0.251	89.34	50.00-170.00
1,2-Dibromoethane (EDB)	0.266	ug/L	0.251	105.73	50.00-170.00
1,2-dibromo-3-chloropropane	0.225	ug/L	0.251	89.54	50.00-170.00

<b>Matrix Spike</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>Lab Number</b>
1,2,3-Trichloropropane	0.274	ug/L	0.251	109.11	50.00-170.00	0.0200U	401246GW3M:
1,2-Dibromoethane (EDB)	0.285	ug/L	0.251	113.21	50.00-170.00	0.0100U	401246GW3M:
1,2-dibromo-3-chloropropane	0.248	ug/L	0.251	98.49	50.00-170.00	0.0200U	401246GW3M:

<b>Matrix Spike Duplicate</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>	<b>RPD Lim</b>
1,2,3-Trichloropropane	0.283	ug/L	0.251	112.37	50.00-170.00	0.0200U	2.95	30.00
1,2-Dibromoethane (EDB)	0.281	ug/L	0.251	111.77	50.00-170.00	0.0100U	1.27	30.00
1,2-dibromo-3-chloropropane	0.278	ug/L	0.251	110.70	50.00-170.00	0.0200U	11.68	30.00

<b>Quality Control Batch: 10404431</b>	<b>Analyst: PCW</b>					
<b>Blank</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	
Ammonia (as N)	0.0100U	mg/L				



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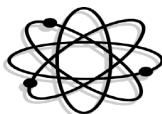
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Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Ammonia (as N)	2.09	mg/L	2.00	104.50	90.00-110.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number	
Ammonia (as N)	1.53	mg/L	0.830	96.75	90.00-110.00	0.727	400469GW1	
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Ammonia (as N)	1.51	mg/L	0.830	94.34	90.00-110.00	0.727	1.32	20.00



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Phone: 850-973-6878 E82405 (North Lab)  
Phone: 305-743-8598 E35834 (Keys Lab)

Atkins-Tampa  
4030 W. Boy Scout Blvd, Ste 700  
Tampa, FL 33607

PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 14, 2019  
May 28, 2019; Invoice: 400469

## Narrative Report

### Sample Handling

Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis.

### Quality Control

Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

### Attachments

Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	Estimated value; one or more QC components associated with this data value exceed current QC limits.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
W	The dissolved oxygen blank was above 0.2 mg/L but less than the MDL.
Z	Too numerous to count colonies on plate.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

**Check Box That Applies To Your Location**

Flowers Chemical Laboratories, Inc.

481 Newburyport Ave.  
Altamonte Springs, FL 32701  
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Fax: 407-260-6110

Flowers Chemical Labs-South

West Park Industrial Plaza  
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Port St. Lucie, FL 34986  
Bus: 772-343-8006  
Fax: 772-343-8089

Flowers Chemical Labs-North

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Madison, FL 32340  
Bus: 850-973-6878  
Fax: 850-973-6878

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Client

Atkins North America

Address

4030 W. Boy Scout Boulevard  
Suite 700, Tampa, FL 33607  
Phone 813 - 281 - 8377

Sampled By (PRINT)

Bradley J. Bayne

Sampler Signature

Bradley J. Bayne 5/15/19

Date Sampled

GW - ground water DW - drinking water WW - wastewater  
SW - surface water SO - soil/solid SL - sludge HW - waste

Project Name	Hardee Co. Landfill				P.O. #	1005256		
Client Contact	Brad Bayne				FAX	Proj. # 100063988		
FCL Project Manager	June Flowers				E-MAIL	bradley.bayne@atkinsglobal.com		
Requested Due Date	10 Day Standard	OR	MM	DD	YY	Rush Charges May Apply		
Pick-Up Fee	\$ 35	Vehicle Surcharge	\$		Sampling Fee	\$		

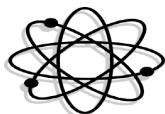
ITEM NO.	SAMPLE ID	DATE	TIME	MATRIX	(LAB USE ONLY) LAB NO.					COMMENTS	Total # Containers
					NONE	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>		
1	MW-4	5/14/19	9:10	GW	400469GW1	3	1	1	2	✓ J ✓ ✓ ✓	
2	MW-2	5/14/19	10:30	GW		2	3	1	1	✓ J ✓ ✓ ✓	
3	MW-1	5/14/19	12:00	GW		3	3	1	1	✓ J ✓ ✓ ✓	
4	MW-14	5/14/19	13:05	GW		4	3	1	1	✓ ✓ ✓ ✓ ✓	
5	MW-13	5/14/19	14:00	GW		5	3	1	1	✓ ✓ ✓ ✓ ✓	
6	MW-12R	5/14/19	15:15	GW		6	3	1	1	✓ ✓ ✓ ✓ ✓	
7	MW-11	5/15/19	9:15	GW	400477GW1	3	1	1	2	✓ V V V V	
8	MW-10R	5/15/19	10:15	GW		4	3	1	1	✓ V V V V	
9	Trip Blank			GW		5	1			V	
10											

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Brad J. Bayne	5/15/19 12:10		Brad J. Bayne	5/15/19 12:10		Brad J. Bayne	5/15/19 14:33		JRC	5/15	14:33

**FINANCE CHARGES APPLIED TO PAST DUE INVOICES**

• WHITE - Lab Copy - To Be Scanned

• YELLOW - Client Copy



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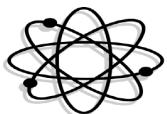
PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 15, 2019  
May 28, 2019; Invoice: 400477

## Report Summary

Date Received: May 15, 2019

FCL Project Manager: June S. Flowers

Laboratory #	Sample Description	Analysis	Chemist	Location	Sample Matrix
400477GW1	MW-11/21882	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	BNP	Main Lab	
		FT1000	RJC	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	
		FT1600	RJC	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
400477GW2	MW-10R/22930	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	BNP	Main Lab	
		FT1000	RJC	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	
		FT1600	RJC	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM4500-CI E	VLB	Main Lab	
400477GW3	Trip Blank 2	EPA8260	BNP	Main Lab	Ground Water



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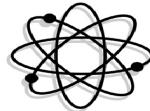
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### Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.



Jefferson S. Flowers, Ph.D.  
President/Technical Director



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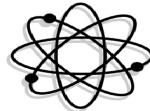
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Tampa, FL 33607

PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 15, 2019  
May 28, 2019; Invoice: 400477

## Analysis Report

Lab #: 400477GW1   Sampled: 05/15/19 09:15 AM   Desc: MW-11/21882

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10403435	EPA353.2	14797-55-8	05/15/19 05:37 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10403494	EPA7470	7439-97-6	05/16/19
Field Ground Water Elevation	78.4	ft	1.00	-10.0	-10.0	10403613	FT1000		05/15/19
Field pH (units)	5.37	pH	1.00	0.0100	0.0200	10403614	FT1100	C006	05/15/19
Field Conductivity	5400	umhos/cm	1.00	0.0100	0.0100	10403615	FT1200		05/15/19
Field Temp. (C)	23.8	oC	1.00	0.0100	0.0100	10403616	FT1400		05/15/19
Field DO	0.190	mg/L	1.00	0.0100	0.0100	10403617	FT1500		05/15/19
Field Turbidity	51.1	NTU	1.00	0.0100	0.0100	10403618	FT1600		05/15/19
TDS	70.0	mg/L	1.00	2.50	5.00	10403715	SM2540 C	10-33-3	05/16/19
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10403807	EPA6020	7440-36-0	05/16/19
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-38-2	05/16/19
Barium	0.00810	mg/L	1.00	0.00200	0.00400	10403807	EPA6020	7440-39-3	05/16/19
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10403807	EPA6020	7440-41-7	05/16/19
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10403807	EPA6020	7440-43-9	05/16/19
Chromium	0.00140 I	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-47-3	05/16/19
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-48-4	05/16/19
Copper	0.00440	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-50-8	05/16/19
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7439-92-1	05/16/19
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-02-0	05/16/19
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10403807	EPA6020	7782-49-2	05/16/19
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10403807	EPA6020	7440-22-4	05/16/19
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-28-0	05/16/19
Vanadium	0.00320	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-62-2	05/16/19
Zinc	0.0190 I	mg/L	1.00	0.0100	0.0200	10403807	EPA6020	7440-66-6	05/16/19
Iron	0.264	mg/L	1.00	0.0100	0.0200	10403813	EPA6010	7439-89-6	05/20/19
Sodium	5.56	mg/L	1.00	0.500	1.00	10403813	EPA6010	7440-23-5	05/20/19
Chloride	6.17 I	mg/L	1.00	4.00	8.00	10404046	SM4500-CI E	16887-00-6	05/22/19



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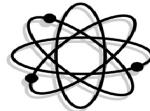
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Tampa, FL 33607

PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 15, 2019  
May 28, 2019; Invoice: 400477

Lab #: 400477GW1   Sampled: 05/15/19 09:15 AM   Desc: MW-11/21882

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10404365	EPA8011	096-18-4	05/24/19
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10404365	EPA8011	106-93-4	05/24/19
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10404365	EPA8011	96-12-8	05/24/19
Ammonia (as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10404431	EPA350.1	7664-41-7	05/28/19
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	630-20-6	05/20/19
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	71-55-6	05/20/19
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10404479	EPA8260	79-34-5	05/20/19
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	79-00-5	05/20/19
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	75-34-3	05/20/19
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	75-35-4	05/20/19
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10404479	EPA8260	107-06-2	05/20/19
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10404479	EPA8260	78-87-5	05/20/19
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	2.00	10404479	EPA8260	78-93-3	05/20/19
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	591-78-6	05/20/19
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10404479	EPA8260	67-64-1	05/20/19
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10404479	EPA8260	107-13-1	05/20/19
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	71-43-2	05/20/19
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10404479	EPA8260	074-97-5	05/20/19
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10404479	EPA8260	75-27-4	05/20/19
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	75-25-2	05/20/19
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	74-83-9	05/20/19
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10404479	EPA8260	75-15-0	05/20/19
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	56-23-5	05/20/19
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	108-90-7	05/20/19
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	75-00-3	05/20/19
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	67-66-3	05/20/19
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	74-87-3	05/20/19
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10404479	EPA8260	124-48-1	05/20/19
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	074-95-3	05/20/19



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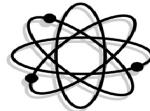
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Lab #: 400477GW1    Sampled: 05/15/19 09:15 AM    Desc: MW-11/21882

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	100-41-4	05/20/19
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10404479	EPA8260	074-88-4	05/20/19
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10404479	EPA8260	108-10-1	05/20/19
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10404479	EPA8260	75-09-2	05/20/19
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	106-46-7	05/20/19
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	100-42-5	05/20/19
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	127-18-4	05/20/19
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	108-88-3	05/20/19
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	79-01-6	05/20/19
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	75-69-4	05/20/19
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10404479	EPA8260	108-05-4	05/20/19
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	75-01-4	05/20/19
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	1330-20-7	05/20/19
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10404479	EPA8260	156-59-2	05/20/19
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	10061-01-5	05/20/19
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	95-50-1	05/20/19
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	156-60-5	05/20/19
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	10061-02-6	05/20/19
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10404479	EPA8260	110-57-6	05/20/19
Surr:1,2-Dichloroethane-d4 (50-150%)	88.07%		1.00	0.0100	0.0100	10404479	EPA8260		05/20/19
Surr:Bromofluorobenzene (50-150%)	116.20%		1.00	1.00	1.00	10404479	EPA8260	460-00-4	05/20/19
Surr:Toluene-d8 (50-150%)	99.93%		1.00	0.0100	0.0100	10404479	EPA8260		05/20/19

Lab #: 400477GW2    Sampled: 05/15/19 10:15 AM    Desc: MW-10R/22930

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10403435	EPA353.2	14797-55-8	05/15/19 05:37 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10403494	EPA7470	7439-97-6	05/16/19
Field Ground Water Elevation	79.7	ft	1.00	-10.0	-10.0	10403613	FT1000		05/15/19
Field pH (units)	6.55	pH	1.00	0.0100	0.0200	10403614	FT1100	C006	05/15/19



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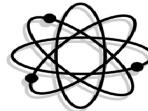
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Atkins-Tampa  
4030 W. Boy Scout Blvd, Ste 700  
Tampa, FL 33607

PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 15, 2019  
May 28, 2019; Invoice: 400477

Lab #: 400477GW2   Sampled: 05/15/19 10:15 AM   Desc: MW-10R/22930

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Field Conductivity	3430	umhos/cm	1.00	0.0100	0.0100	10403615	FT1200		05/15/19
Field Temp. (C)	24.3	oC	1.00	0.0100	0.0100	10403616	FT1400		05/15/19
Field DO	0.300	mg/L	1.00	0.0100	0.0100	10403617	FT1500		05/15/19
Field Turbidity	19.1	NTU	1.00	0.0100	0.0100	10403618	FT1600		05/15/19
TDS	378	mg/L	1.00	2.50	5.00	10403715	SM2540 C	10-33-3	05/16/19
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10403807	EPA6020	7440-36-0	05/16/19
Arsenic	0.00420	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-38-2	05/16/19
Barium	0.0233	mg/L	1.00	0.00200	0.00400	10403807	EPA6020	7440-39-3	05/16/19
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10403807	EPA6020	7440-41-7	05/16/19
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10403807	EPA6020	7440-43-9	05/16/19
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-47-3	05/16/19
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-48-4	05/16/19
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-50-8	05/16/19
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7439-92-1	05/16/19
Nickel	0.00200	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-02-0	05/16/19
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10403807	EPA6020	7782-49-2	05/16/19
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10403807	EPA6020	7440-22-4	05/16/19
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-28-0	05/16/19
Vanadium	0.00320	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-62-2	05/16/19
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10403807	EPA6020	7440-66-6	05/16/19
Iron	26.5	mg/L	1.00	0.0100	0.0200	10403813	EPA6010	7439-89-6	05/20/19
Sodium	23.6	mg/L	1.00	0.500	1.00	10403813	EPA6010	7440-23-5	05/20/19
Chloride	43.4	mg/L	1.00	4.00	8.00	10404046	SM4500-CI E	16887-00-6	05/22/19
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10404365	EPA8011	096-18-4	05/24/19
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10404365	EPA8011	106-93-4	05/24/19
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10404365	EPA8011	96-12-8	05/24/19
Ammonia (as N)	1.03	mg/L	1.00	0.0100	0.0200	10404431	EPA350.1	7664-41-7	05/28/19
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	630-20-6	05/20/19
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	71-55-6	05/20/19



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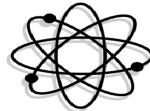
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Atkins-Tampa  
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PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 15, 2019  
May 28, 2019; Invoice: 400477

Lab #: 400477GW2   Sampled: 05/15/19 10:15 AM   Desc: MW-10R/22930

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10404479	EPA8260	79-34-5	05/20/19
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	79-00-5	05/20/19
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	75-34-3	05/20/19
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	75-35-4	05/20/19
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10404479	EPA8260	107-06-2	05/20/19
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10404479	EPA8260	78-87-5	05/20/19
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	2.00	10404479	EPA8260	78-93-3	05/20/19
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	591-78-6	05/20/19
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10404479	EPA8260	67-64-1	05/20/19
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10404479	EPA8260	107-13-1	05/20/19
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	71-43-2	05/20/19
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10404479	EPA8260	074-97-5	05/20/19
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10404479	EPA8260	75-27-4	05/20/19
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	75-25-2	05/20/19
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	74-83-9	05/20/19
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10404479	EPA8260	75-15-0	05/20/19
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	56-23-5	05/20/19
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	108-90-7	05/20/19
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	75-00-3	05/20/19
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	67-66-3	05/20/19
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	74-87-3	05/20/19
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10404479	EPA8260	124-48-1	05/20/19
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	074-95-3	05/20/19
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	100-41-4	05/20/19
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10404479	EPA8260	074-88-4	05/20/19
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10404479	EPA8260	108-10-1	05/20/19
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10404479	EPA8260	75-09-2	05/20/19
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	106-46-7	05/20/19
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	100-42-5	05/20/19



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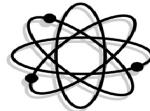
PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 15, 2019  
May 28, 2019; Invoice: 400477

**Lab #:** 400477GW2   **Sampled:** 05/15/19 10:15 AM   **Desc:** MW-10R/22930

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed	
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	127-18-4	05/20/19	
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	108-88-3	05/20/19	
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	79-01-6	05/20/19	
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	75-69-4	05/20/19	
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10404479	EPA8260	108-05-4	05/20/19	
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	75-01-4	05/20/19	
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	1330-20-7	05/20/19	
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10404479	EPA8260	156-59-2	05/20/19	
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	10061-01-5	05/20/19	
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	95-50-1	05/20/19	
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	156-60-5	05/20/19	
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	10061-02-6	05/20/19	
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10404479	EPA8260	110-57-6	05/20/19	
Surr:1,2-Dichloroethane-d4 (50-150%)	88.73%			1.00	0.0100	0.0100	10404479	EPA8260	05/20/19	
Surr:Bromofluorobenzene (50-150%)	121.53%			1.00	1.00	1.00	10404479	EPA8260	460-00-4	05/20/19
Surr:Toluene-d8 (50-150%)	103.03%			1.00	0.0100	0.0100	10404479	EPA8260	05/20/19	

**Lab #:** 400477GW3   **Sampled:** 05/15/19 10:15 AM   **Desc:** Trip Blank 2

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	630-20-6	05/20/19
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	71-55-6	05/20/19
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10404479	EPA8260	79-34-5	05/20/19
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	79-00-5	05/20/19
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	75-34-3	05/20/19
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	75-35-4	05/20/19
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10404479	EPA8260	107-06-2	05/20/19
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10404479	EPA8260	78-87-5	05/20/19
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	2.00	10404479	EPA8260	78-93-3	05/20/19
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	591-78-6	05/20/19



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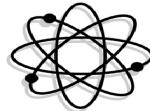
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PO #: 1005256  
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Date Sampled: May 15, 2019  
May 28, 2019; Invoice: 400477

Lab #: 400477GW3   Sampled: 05/15/19 10:15 AM   Desc: Trip Blank 2

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10404479	EPA8260	67-64-1	05/20/19
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10404479	EPA8260	107-13-1	05/20/19
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	71-43-2	05/20/19
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10404479	EPA8260	074-97-5	05/20/19
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10404479	EPA8260	75-27-4	05/20/19
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	75-25-2	05/20/19
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	74-83-9	05/20/19
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10404479	EPA8260	75-15-0	05/20/19
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	56-23-5	05/20/19
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	108-90-7	05/20/19
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	75-00-3	05/20/19
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	67-66-3	05/20/19
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	74-87-3	05/20/19
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10404479	EPA8260	124-48-1	05/20/19
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	074-95-3	05/20/19
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	100-41-4	05/20/19
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10404479	EPA8260	074-88-4	05/20/19
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10404479	EPA8260	108-10-1	05/20/19
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10404479	EPA8260	75-09-2	05/20/19
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	106-46-7	05/20/19
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	100-42-5	05/20/19
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	127-18-4	05/20/19
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	108-88-3	05/20/19
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	79-01-6	05/20/19
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	75-69-4	05/20/19
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10404479	EPA8260	108-05-4	05/20/19
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	75-01-4	05/20/19
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	1330-20-7	05/20/19
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10404479	EPA8260	156-59-2	05/20/19



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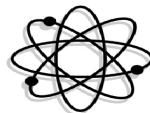
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Lab #: 400477GW3   Sampled: 05/15/19 10:15 AM   Desc: Trip Blank 2

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed	
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	10061-01-5	05/20/19	
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	95-50-1	05/20/19	
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	156-60-5	05/20/19	
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10404479	EPA8260	10061-02-6	05/20/19	
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10404479	EPA8260	110-57-6	05/20/19	
Surr:1,2-Dichloroethane-d4 (50-150%)	92.67%			1.00	0.0100	0.0100	10404479	EPA8260	05/20/19	
Surr:Bromofluorobenzene (50-150%)	108.43%			1.00	1.00	1.00	10404479	EPA8260	460-00-4	05/20/19
Surr:Toluene-d8 (50-150%)	97.57%			1.00	0.0100	0.0100	10404479	EPA8260	05/20/19	



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Atkins-Tampa  
4030 W. Boy Scout Blvd, Ste 700  
Tampa, FL 33607

PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 15, 2019  
May 28, 2019; Invoice: 400477

## Quality Report

**Quality Control Batch: 10403435****Analyst: PCW**

Blank	Result	Units
Nitrate(as N)	0.0100U	mg/L

**Laboratory Control Sample**

Nitrate(as N)	Result	Units	Spike	%REC	%REC Lim
	1.06	mg/L	1.00	105.70	90.00-110.00

**Quality Control Batch: 10403494****Analyst: EVB**

Blank	Result	Units
Mercury	0.0000200U	mg/L

**Laboratory Control Sample**

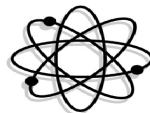
Mercury	Result	Units	Spike	%REC	%REC Lim
	0.000984	mg/L	0.00100	98.42	80.00-120.00

**Quality Control Batch: 10403715****Analyst: PLB**

Blank	Result	Units
TDS	2.50U	mg/L

**Laboratory Control Sample**

TDS	Result	Units	Spike	%REC	%REC Lim
	1470	mg/L	1500	97.87	80.00-120.00



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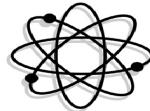
Duplicate	Result	Units	Sample	RPD	RPD Lim	Lab Number
TDS	134	mg/L	136	1.48	20.00	400486GW1

**Quality Control Batch: 10403807**

Blank	Result	Units
Antimony	0.00200U	mg/L
Arsenic	0.00100U	mg/L
Barium	0.00200U	mg/L
Beryllium	0.000500U	mg/L
Cadmium	0.000200U	mg/L
Chromium	0.00100U	mg/L
Cobalt	0.00100U	mg/L
Copper	0.00100U	mg/L
Lead	0.00100U	mg/L
Nickel	0.00100U	mg/L
Selenium	0.00200U	mg/L
Silver	0.000500U	mg/L
Thallium	0.00100U	mg/L
Vanadium	0.00100U	mg/L
Zinc	0.0100U	mg/L

**Laboratory Control Sample**

	Result	Units	Spike	%REC	%REC Lim
Antimony	0.0909	mg/L	0.100	90.90	80.00-120.00
Arsenic	0.0996	mg/L	0.100	99.60	80.00-120.00
Barium	0.107	mg/L	0.100	106.50	80.00-120.00
Beryllium	0.111	mg/L	0.100	110.60	80.00-120.00
Cadmium	0.0999	mg/L	0.100	99.90	80.00-120.00
Chromium	0.0973	mg/L	0.100	97.30	80.00-120.00
Cobalt	0.0975	mg/L	0.100	97.50	80.00-120.00
Copper	0.0973	mg/L	0.100	97.30	80.00-120.00



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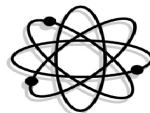
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PO #: 1005256  
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Date Sampled: May 15, 2019  
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Quality Control Batch: 10403807		Analyst: EVB							
<b>Laboratory Control Sample</b>		<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>			
Lead		0.105	mg/L	0.100	105.20	80.00-120.00			
Nickel		0.102	mg/L	0.100	101.80	80.00-120.00			
Selenium		0.0961	mg/L	0.100	96.10	80.00-120.00			
Silver		0.0998	mg/L	0.100	99.80	80.00-120.00			
Thallium		0.103	mg/L	0.100	103.10	80.00-120.00			
Vanadium		0.0962	mg/L	0.100	96.20	80.00-120.00			
Zinc		0.106	mg/L	0.100	106.00	80.00-120.00			
<b>Matrix Spike</b>		<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>Lab Number</b>	
Antimony		0.174	mg/L	0.150	116.13	75.00-125.00	0.00200U	400469GW1	
Arsenic		0.159	mg/L	0.150	99.00	75.00-125.00	0.0106	400469GW1	
Barium		0.148	mg/L	0.150	91.13	75.00-125.00	0.0113	400469GW1	
Beryllium		0.141	mg/L	0.150	94.20	75.00-125.00	0.000500U	400469GW1	
Cadmium		0.154	mg/L	0.150	102.60	75.00-125.00	0.000200U	400469GW1	
Chromium		0.189	mg/L	0.150	122.93	75.00-125.00	0.00460	400469GW1	
Cobalt		0.181	mg/L	0.150	120.40	75.00-125.00	0.00100U	400469GW1	
Copper		0.173	mg/L	0.150	115.13	75.00-125.00	0.00100U	400469GW1	
Lead		0.175	mg/L	0.150	116.53	75.00-125.00	0.00100U	400469GW1	
Nickel		0.179	mg/L	0.150	118.40	75.00-125.00	0.00120	400469GW1	
Selenium		0.135	mg/L	0.150	89.67	75.00-125.00	0.00200U	400469GW1	
Silver		0.175	mg/L	0.150	116.53	75.00-125.00	0.000500U	400469GW1	
Thallium		0.172	mg/L	0.150	114.87	75.00-125.00	0.00100U	400469GW1	
Vanadium		0.201	mg/L	0.150	124.27	75.00-125.00	0.0150	400469GW1	
Zinc		0.152	mg/L	0.150	101.20	75.00-125.00	0.0100U	400469GW1	
<b>Matrix Spike Duplicate</b>		<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>	<b>RPD Lim</b>
Antimony		0.168	mg/L	0.150	112.27	75.00-125.00	0.00200U	3.39	40.00
Arsenic		0.158	mg/L	0.150	98.40	75.00-125.00	0.0106	0.57	20.00
Barium		0.149	mg/L	0.150	92.00	75.00-125.00	0.0113	0.87	20.00



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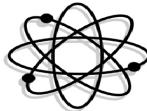
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Atkins-Tampa  
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Tampa, FL 33607

PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 15, 2019  
May 28, 2019; Invoice: 400477

Quality Control Batch: 10403807		Analyst: EVB							
<b>Matrix Spike Duplicate</b>		<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>	<b>RPD Lim</b>
Beryllium		0.149	mg/L	0.150	99.07	75.00-125.00	0.000500U	5.04	40.00
Cadmium		0.152	mg/L	0.150	101.47	75.00-125.00	0.000200U	1.11	20.00
Chromium		0.182	mg/L	0.150	118.53	75.00-125.00	0.00460	3.55	20.00
Cobalt		0.175	mg/L	0.150	116.73	75.00-125.00	0.00100U	3.09	40.00
Copper		0.168	mg/L	0.150	111.87	75.00-125.00	0.00100U	2.88	20.00
Lead		0.178	mg/L	0.150	118.67	75.00-125.00	0.00100U	1.81	20.00
Nickel		0.174	mg/L	0.150	114.87	75.00-125.00	0.00120	3.01	20.00
Selenium		0.134	mg/L	0.150	89.53	75.00-125.00	0.00200U	0.15	20.00
Silver		0.172	mg/L	0.150	114.87	75.00-125.00	0.000500U	1.44	20.00
Thallium		0.177	mg/L	0.150	118.07	75.00-125.00	0.00100U	2.75	40.00
Vanadium		0.192	mg/L	0.150	118.27	75.00-125.00	0.0150	4.57	20.00
Zinc		0.149	mg/L	0.150	99.27	75.00-125.00	0.0100U	1.93	20.00
Quality Control Batch: 10403813		Analyst: EVB							
<b>Blank</b>		<b>Result</b>	<b>Units</b>						
Iron		0.0100U	mg/L						
Sodium		0.500U	mg/L						
Laboratory Control Sample		<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>			
Iron		5.00	mg/L	5.00	100.02	80.00-120.00			
Sodium		5.06	mg/L	5.00	101.18	80.00-120.00			
Matrix Spike		<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>Lab Number</b>	
Iron		6.47	mg/L	5.00	92.49	80.00-120.00	1.84	400317GW1	
Sodium		6.67	mg/L	5.00	94.89	75.00-125.00	1.92	400317GW1	
Matrix Spike Duplicate		<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>	<b>RPD Lim</b>
Iron		6.33	mg/L	5.00	89.78	80.00-120.00	1.84	2.12	20.00
Sodium		6.61	mg/L	5.00	93.74	75.00-125.00	1.92	0.87	20.00



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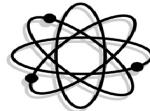
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Quality Control Batch: 10404046		Analyst: VLB						
<b>Blank</b>		<b>Result</b>	<b>Units</b>					
Chloride		4.00U	mg/L					
<b>Laboratory Control Sample</b>		<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>		
Chloride		163	mg/L	150	108.72	80.00-120.00		
<b>Matrix Spike</b>		<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>Lab Number</b>
Chloride		121	mg/L	100	111.67	80.00-120.00	9.21	400469GW5
<b>Matrix Spike Duplicate</b>		<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>
Chloride		120	mg/L	100	110.45	80.00-120.00	9.21	1.02
<b>Quality Control Batch: 10404365</b>		Analyst: DLJ						
<b>Blank</b>		<b>Result</b>	<b>Units</b>					
1,2,3-Trichloropropane		0.0200U	ug/L					
1,2-Dibromoethane (EDB)		0.0100U	ug/L					
1,2-dibromo-3-chloropropane		0.0200U	ug/L					
<b>Laboratory Control Sample</b>		<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>		
1,2,3-Trichloropropane		0.225	ug/L	0.251	89.34	50.00-170.00		
1,2-Dibromoethane (EDB)		0.266	ug/L	0.251	105.73	50.00-170.00		
1,2-dibromo-3-chloropropane		0.225	ug/L	0.251	89.54	50.00-170.00		
<b>Matrix Spike</b>		<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>Lab Number</b>
1,2,3-Trichloropropane		0.274	ug/L	0.251	109.11	50.00-170.00	0.0200U	401246GW3M:
1,2-Dibromoethane (EDB)		0.285	ug/L	0.251	113.21	50.00-170.00	0.0100U	401246GW3M:
1,2-dibromo-3-chloropropane		0.248	ug/L	0.251	98.49	50.00-170.00	0.0200U	401246GW3M:
<b>Matrix Spike Duplicate</b>		<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>
1,2,3-Trichloropropane		0.283	ug/L	0.251	112.37	50.00-170.00	0.0200U	2.95
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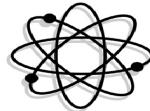
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Quality Control Batch: 10404365		Analyst: DLJ							
<b>Matrix Spike Duplicate</b>		<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>	<b>RPD Lim</b>
1,2-Dibromoethane (EDB)		0.281	ug/L	0.251	111.77	50.00-170.00	0.0100U	1.27	30.00
1,2-dibromo-3-chloropropane		0.278	ug/L	0.251	110.70	50.00-170.00	0.0200U	11.68	30.00
Quality Control Batch: 10404431		Analyst: PCW							
<b>Blank</b>		<b>Result</b>	<b>Units</b>						
Ammonia (as N)		0.0100U	mg/L						
<b>Laboratory Control Sample</b>		<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>			
Ammonia (as N)		2.09	mg/L	2.00	104.50	90.00-110.00			
<b>Matrix Spike</b>		<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>Lab Number</b>	
Ammonia (as N)		1.53	mg/L	0.830	96.75	90.00-110.00	0.727	400469GW1	
<b>Matrix Spike Duplicate</b>		<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>	<b>RPD Lim</b>
Ammonia (as N)		1.51	mg/L	0.830	94.34	90.00-110.00	0.727	1.32	20.00
Quality Control Batch: 10404479		Analyst: BNP							
<b>Blank</b>		<b>Result</b>	<b>Units</b>						
1,1,1,2-Tetrachloroethane		0.500U	ug/L						
1,1,1-Trichloroethane		0.500U	ug/L						
1,1,2,2-Tetrachloroethane		0.100U	ug/L						
1,1,2-Trichloroethane		0.500U	ug/L						
1,1-Dichloroethane		0.500U	ug/L						
1,1-Dichloroethene		0.500U	ug/L						
1,2-dichloroethane		0.500U	ug/L						
1,2-dichloropropane		0.200U	ug/L						
2-Butanone (MEK)		1.00U	ug/L						
2-Hexanone		0.500U	ug/L						
Acetone		5.00U	ug/L						



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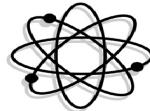
**Quality Control Batch:** 10404479

**Blank**

Acrylonitrile  
Benzene  
Bromochloromethane  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon Disulfide  
Carbon Tetrachloride  
Chlorobenzene  
Chloroethane  
Chloroform  
Chloromethane  
Dibromochloromethane  
Dibromomethane  
Ethylbenzene  
Methyl Iodide  
Methyl isobutyl ketone  
Methylene chloride  
Para-dichlorobenzene  
Styrene  
Tetrachloroethene  
Toluene  
Trichloroethene  
Trichlorofluoromethane  
Vinyl Acetate  
Vinyl chloride  
Xylenes  
cis-1,2-dichloroethene  
cis-1,3-Dichloropropene

**Analyst:** BNP

<b>Result</b>	<b>Units</b>
0.300U	ug/L
0.500U	ug/L
0.100U	ug/L
0.100U	ug/L
0.500U	ug/L
0.500U	ug/L
1.00U	ug/L
0.500U	ug/L
10.0U	ug/L
0.500U	ug/L
0.500U	ug/L
0.200U	ug/L
0.500U	ug/L



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3980 Overseas Hwy, Suite 103, Marathon, FL 33050

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Phone: 850-973-6878 E82405 (North Lab)  
Phone: 305-743-8598 E35834 (Keys Lab)

Atkins-Tampa  
4030 W. Boy Scout Blvd, Ste 700  
Tampa, FL 33607

PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 15, 2019  
May 28, 2019; Invoice: 400477

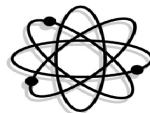
**Quality Control Batch:** 10404479

**Blank**

	<b>Analyst:</b> BNP	<b>Result</b>	<b>Units</b>
o-dichlorobenzene	0.500U	ug/L	
trans-1,2-dichloroethene	0.500U	ug/L	
trans-1,3,-Dichloropropene	0.500U	ug/L	
trans-1,4-dichloro-2-butene	1.00U	ug/L	
Surr:1,2-Dichloroethane-d4	0.0100U	ug/L	
Surr:Bromofluorobenzene	1.00U	ug/L	
Surr:Toluene-d8	0.0100U	ug/L	

**Laboratory Control Sample**

	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>
1,1,1,2-Tetrachloroethane	37.7	ug/L	40.0	94.30	50.00-150.00
1,1,1-Trichloroethane	43.1	ug/L	40.0	107.62	50.00-150.00
1,1,2,2-Tetrachloroethane	39.0	ug/L	40.0	97.60	50.00-150.00
1,1,2-Trichloroethane	35.7	ug/L	40.0	89.12	50.00-150.00
1,1-Dichloroethane	38.2	ug/L	40.0	95.38	50.00-150.00
1,1-Dichloroethene	34.5	ug/L	40.0	86.32	50.00-150.00
1,2-dichloroethane	39.8	ug/L	40.0	99.40	50.00-150.00
1,2-dichloropropane	43.3	ug/L	40.0	108.25	50.00-150.00
2-Butanone (MEK)	41.6	ug/L	40.0	104.10	50.00-150.00
2-Hexanone	33.8	ug/L	40.0	84.53	50.00-150.00
Acetone	41.1	ug/L	40.0	102.78	50.00-150.00
Acrylonitrile	40.5	ug/L	40.0	101.15	50.00-150.00
Benzene	40.6	ug/L	40.0	101.60	50.00-150.00
Bromo(chloromethane	42.0	ug/L	40.0	105.00	50.00-150.00
Bromodichloromethane	45.8	ug/L	40.0	114.37	70.00-130.00
Bromoform	36.8	ug/L	40.0	92.05	50.00-130.00
Bromomethane	31.8	ug/L	40.0	79.53	50.00-150.00
Carbon Disulfide	36.6	ug/L	40.0	91.47	50.00-150.00
Carbon Tetrachloride	42.0	ug/L	40.0	105.08	50.00-150.00
Chlorobenzene	36.4	ug/L	40.0	90.87	50.00-150.00



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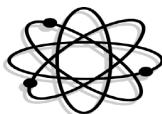
Atkins-Tampa  
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Tampa, FL 33607

PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 15, 2019  
May 28, 2019; Invoice: 400477

**Quality Control Batch:** 10404479

**Laboratory Control Sample**

	<b>Analyst:</b> BNP				
	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>
Chloroethane	30.7	ug/L	40.0	76.70	50.00-150.00
Chloroform	36.5	ug/L	40.0	91.12	50.00-150.00
Chloromethane	30.3	ug/L	40.0	75.72	50.00-150.00
Dibromochloromethane	37.8	ug/L	40.0	94.45	50.00-150.00
Dibromomethane	41.7	ug/L	40.0	104.17	50.00-150.00
Ethylbenzene	38.0	ug/L	40.0	94.98	50.00-150.00
Methyl Iodide	38.8	ug/L	40.0	96.93	50.00-150.00
Methyl isobutyl ketone	38.0	ug/L	40.0	95.02	50.00-150.00
Methylene chloride	41.7	ug/L	40.0	104.32	50.00-150.00
Para-dichlorobenzene	33.0	ug/L	40.0	82.55	50.00-150.00
Styrene	39.1	ug/L	40.0	97.80	50.00-150.00
Tetrachloroethene	32.3	ug/L	40.0	80.70	50.00-150.00
Toluene	33.4	ug/L	40.0	83.57	50.00-150.00
Trichloroethene	41.7	ug/L	40.0	104.20	50.00-150.00
Trichlorofluoromethane	34.9	ug/L	40.0	87.12	50.00-150.00
Vinyl chloride	27.0	ug/L	40.0	67.55	50.00-150.00
Xylenes	122	ug/L	120	102.06	50.00-150.00
cis-1,2-dichloroethene	42.0	ug/L	40.0	105.08	50.00-150.00
cis-1,3-Dichloropropene	39.3	ug/L	40.0	98.28	50.00-150.00
o-dichlorobenzene	36.0	ug/L	40.0	90.02	50.00-150.00
trans-1,2-dichloroethene	39.4	ug/L	40.0	98.55	50.00-150.00
trans-1,3,-Dichloropropene	38.1	ug/L	40.0	95.17	50.00-150.00
Surr:1,2-Dichloroethane-d4	27.8	ug/L	30.0	92.63	50.00-150.00
Surr:Bromofluorobenzene	30.0	ug/L	30.0	100.10	50.00-150.00
Surr:Toluene-d8	30.6	ug/L	30.0	101.93	50.00-150.00



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## Narrative Report

### Sample Handling

Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis.

### Quality Control

Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

### Attachments

Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	Estimated value; one or more QC components associated with this data value exceed current QC limits.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
W	The dissolved oxygen blank was above 0.2 mg/L but less than the MDL.
Z	Too numerous to count colonies on plate.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

**Check Box That Applies To Your Location**

Flowers Chemical Laboratories, Inc.

481 Newburyport Ave.  
Altamonte Springs, FL 32701  
Bus: 407-339-5984  
Fax: 407-260-6110

Flowers Chemical Labs-South

West Park Industrial Plaza  
571 N.W. Mercantile Pl., Ste. 111  
Port St. Lucie, FL 34986  
Bus: 772-343-8006  
Fax: 772-343-8089

Flowers Chemical Labs-North

812 S.W. Harvey Greene Dr.  
Madison, FL 32340  
Bus: 850-973-6878  
Fax: 850-973-6878

Flowers Chemical Labs-Keys

3980 Overseas Highway, Ste. 103  
Marathon, FL 33050  
Bus: 305-743-8598  
Fax: 305-743-8598



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Client

Atkins North America  
4030 W. Boy Scout Boulevard  
Suite 700, Tampa, FL 33607  
Phone 813 - 281 - 8377

Sampled By (PRINT)

Bradley J. Bayne

Sampler Signature

Bradley J. Bayne 5/15/19

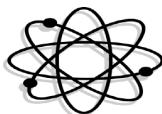
GW - ground water DW - drinking water WW - wastewater  
SW - surface water SO - soil/solid SL - sludge HW - waste

ITEM NO.	SAMPLE ID	DATE	TIME	MATRIX	(LAB USE ONLY) LAB NO.	PRESERVATIVES					ANALYSES REQUEST	COMMENTS	Total # Containers		
						NONE	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>					
1	MW-4	5/14/19	9:10	GW	400469GW1	3	1	1	2		✓	✓	✓	✓	✓
2	MW-2	5/14/19	10:30	GW		2	3	1	2		✓	✓	✓	✓	✓
3	MW-1	5/14/19	12:00	GW		3	3	1	2		✓	✓	✓	✓	✓
4	MW-14	5/14/19	13:05	GW		4	3	1	2		✓	✓	✓	✓	✓
5	MW-13	5/14/19	14:00	GW		5	3	1	2		✓	✓	✓	✓	✓
6	MW-12R	5/14/19	15:15	GW		6	3	1	2		✓	✓	✓	✓	✓
7	MW-11	5/15/19	9:15	GW	400477GW1*	3	1	1	2		✓	✓	✓	✓	✓
8	MW-10R	5/15/19	10:15	GW		GW2*	3	1	1	2	✓	✓	✓	✓	✓
9	Trip Blank			EW		GW3*	1				✓				
10						7mc 5/15/19									
Relinquished By / Affiliation		Date	Time	Accepted By / Affiliation		Date	Time	Relinquished By / Affiliation		Date	Time	Accepted By / Affiliation		Date	Time
Bradley J. Bayne		5/15/19	12:10	Bradley J. Bayne		5/15/19	12:00	Bradley J. Bayne		5/15/19	14:33	JRW		5/15	14:33

**FINANCE CHARGES APPLIED TO PAST DUE INVOICES**

• WHITE - Lab Copy - To Be Scanned

• YELLOW - Client Copy



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4030 W. Boy Scout Blvd, Ste 700  
Tampa, FL 33607

PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 15, 2019  
May 28, 2019; Invoice: 400459

## Report Summary

Date Received: May 15, 2019

FCL Project Manager: June S. Flowers

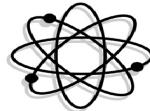
Laboratory #	Sample Description	Analysis	Chemist	Location	Sample Matrix
400459SW1	SW-2/21062	COLILERT-18	OKS	Main Lab	Surface Water
		EPA245.1	EVB	Main Lab	
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.4	VLB	Main Lab	
		EPA410.4	IAD	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	BNP	Main Lab	
		FDEP DEP-SOP	PCW	Main Lab	
		FT1100	RJC	Main Lab	
		FT1200	RJC	Main Lab	
		FT1400	RJC	Main Lab	
		FT1500	RJC	Main Lab	
		FT1600	RJC	Main Lab	
		SM10200 H	IAD	Main Lab	
		SM2340 B	EVB	Main Lab	
		SM2540 C	PLB	Main Lab	
		SM2540 D	PLB	Main Lab	
		SM5210 B	AJE	Main Lab	
		SM5310 C	GDP	Main Lab	
		TotNit			
400459SW2	Trip Blank	EPA8260	BNP	Main Lab	Surface Water

## Certificate of Results

Sample integrity was certified prior to analysis. Test results meet all requirements of the NELAC Standards except as noted in the Quality Control Report. Uncertainties for these data are available on request. This report may not be reproduced in part; results relate only to items tested.



Jefferson S. Flowers, Ph.D.  
President/Technical Director



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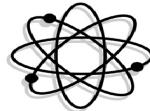
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Tampa, FL 33607

PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 15, 2019  
May 28, 2019; Invoice: 400459

## Analysis Report

Lab #: 400459SW1   Sampled: 05/15/19 10:50 AM   Desc: SW-2/21062

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Total Nitrogen(as N)	1.50			0			TotNit	17778-88-0	
Nitrate(as N)	0.0100 U	mg/L	1.00	0.0100	0.0200	10403435	EPA353.2	14797-55-8	05/15/19 05:37 PM
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10403435	EPA353.2	14797-65-0	05/15/19 05:37 PM
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10403490	EPA245.1	7439-97-6	05/16/19
Fecal Coliform	214	mpn/100mL	1.00	1.00	1.00	10403540	COLILERT-18	E761792	05/15/19 03:45 PM
TOC	29.7	mg/L	1.00	1.00	2.00	10403568	SM5310 C	E701250	05/16/19
TSS	1.00 U	mg/L	1.00	1.00	2.00	10403572	SM2540 D	E1642818	05/16/19
Chemical Oxygen Demand	78.9	mg/L	1.00	10.0	20.0	10403653	EPA410.4	C-004	05/17/19
TDS	248	mg/L	1.00	2.50	5.00	10403715	SM2540 C	10-33-3	05/16/19
TKN(as N)	1.50	mg/L	1.00	0.200	0.400	10403728	EPA351.2	7727-37-9	05/18/19
Total Phosphorus(as P)	1.12	mg/L	1.00	0.0400	0.100	10403731	EPA365.4	7723-14-0	05/18/19
Field pH (units)	6.87	pH	1.00	0.0100	0.0200	10403765	FT1100	C006	05/15/19
Field Conductivity	3670	umhos/cm	1.00	0.0100	0.0100	10403766	FT1200		05/15/19
Field Temp. (C)	22.9	oC	1.00	0.0100	0.0100	10403767	FT1400		05/15/19
Field DO	1.61	mg/L	1.00	0.0100	0.0100	10403768	FT1500		05/15/19
Field Turbidity	10.1	NTU	1.00	0.0100	0.0100	10403769	FT1600		05/15/19
Aluminum	0.0167 I	mg/L	1.00	0.0100	0.0200	10403807	EPA6020	7429-90-5	05/16/19
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10403807	EPA6020	7440-36-0	05/16/19
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-38-2	05/16/19
Barium	0.0116	mg/L	1.00	0.00200	0.00400	10403807	EPA6020	7440-39-3	05/16/19
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10403807	EPA6020	7440-41-7	05/16/19
Cadmium	0.000200 U	mg/L	1.00	0.000200	0.000400	10403807	EPA6020	7440-43-9	05/16/19
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-47-3	05/16/19
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-48-4	05/16/19
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-50-8	05/16/19
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7439-92-1	05/16/19
Nickel	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-02-0	05/16/19



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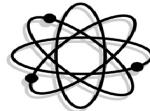
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PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 15, 2019  
May 28, 2019; Invoice: 400459

Lab #: 400459SW1   Sampled: 05/15/19 10:50 AM   Desc: SW-2/21062

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10403807	EPA6020	7782-49-2	05/16/19
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10403807	EPA6020	7440-22-4	05/16/19
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-28-0	05/16/19
Vanadium	0.00100 U	mg/L	1.00	0.00100	0.00200	10403807	EPA6020	7440-62-2	05/16/19
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10403807	EPA6020	7440-66-6	05/16/19
Iron	0.381	mg/L	1.00	0.0100	0.0200	10403813	EPA6010	7439-89-6	05/20/19
Total Hardness (as CaCO <sub>3</sub> )	140	mg/L	1.00	0.100	0.200	10403817	SM2340 B	40-11-9	05/20/19
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	630-20-6	05/20/19
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	71-55-6	05/20/19
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10403881	EPA8260	79-34-5	05/20/19
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	79-00-5	05/20/19
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-34-3	05/20/19
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-35-4	05/20/19
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10403881	EPA8260	107-06-2	05/20/19
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10403881	EPA8260	78-87-5	05/20/19
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	78-93-3	05/20/19
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	591-78-6	05/20/19
Acetone	5.90 I	ug/L	1.00	5.00	10.0	10403881	EPA8260	67-64-1	05/20/19
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10403881	EPA8260	107-13-1	05/20/19
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	71-43-2	05/20/19
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10403881	EPA8260	074-97-5	05/20/19
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10403881	EPA8260	75-27-4	05/20/19
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-25-2	05/20/19
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	74-83-9	05/20/19
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	75-15-0	05/20/19
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	56-23-5	05/20/19
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	108-90-7	05/20/19
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-00-3	05/20/19
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	67-66-3	05/20/19



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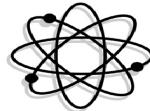
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Atkins-Tampa  
4030 W. Boy Scout Blvd, Ste 700  
Tampa, FL 33607

PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 15, 2019  
May 28, 2019; Invoice: 400459

Lab #: 400459SW1    Sampled: 05/15/19 10:50 AM    Desc: SW-2/21062

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	74-87-3	05/20/19
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10403881	EPA8260	124-48-1	05/20/19
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	074-95-3	05/20/19
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	100-41-4	05/20/19
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	074-88-4	05/20/19
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	108-10-1	05/20/19
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	75-09-2	05/20/19
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	106-46-7	05/20/19
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	100-42-5	05/20/19
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	127-18-4	05/20/19
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	108-88-3	05/20/19
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	79-01-6	05/20/19
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-69-4	05/20/19
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10403881	EPA8260	108-05-4	05/20/19
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-01-4	05/20/19
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	1330-20-7	05/20/19
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10403881	EPA8260	156-59-2	05/20/19
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	10061-01-5	05/20/19
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	95-50-1	05/20/19
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	156-60-5	05/20/19
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	10061-02-6	05/20/19
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	110-57-6	05/20/19
Surr:1,2-Dichloroethane-d4 (50-150%)	97.10%		1.00	0.0100	0.0100	10403881	EPA8260		05/20/19
Surr:Bromofluorobenzene (50-150%)	122.73%		1.00	1.00	1.00	10403881	EPA8260	460-00-4	05/20/19
Surr:Toluene-d8 (50-150%)	89.93%		1.00	0.0100	0.0100	10403881	EPA8260		05/20/19
BOD5day	2.00 U	mg/L	1.00	2.00	2.00	10403921	SM5210 B	E1640606	05/15/19 09:45 AM
Chlorophyll a	3.00	ug/L	1.00	0.0200	0.0800	10404016	SM10200 H	479-61-8	05/22/19
Ammonia (as N)	0.354	mg/L	1.00	0.0100	0.0200	10404023	EPA350.1	7664-41-7	05/22/19
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10404365	EPA8011	096-18-4	05/24/19



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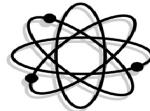
PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 15, 2019  
May 28, 2019; Invoice: 400459

**Lab #:** 400459SW1   **Sampled:** 05/15/19 10:50 AM   **Desc:** SW-2/21062

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10404365	EPA8011	106-93-4	05/24/19
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10404365	EPA8011	96-12-8	05/24/19
Unionized NH3(as N)	0.00106	mg/L	1.00	0.000100	0.000200	10404410	FDEP DEP-SOF		05/22/19

**Lab #:** 400459SW2   **Sampled:** 05/15/19 10:50 AM   **Desc:** Trip Blank

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	630-20-6	05/20/19
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	71-55-6	05/20/19
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10403881	EPA8260	79-34-5	05/20/19
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	79-00-5	05/20/19
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-34-3	05/20/19
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-35-4	05/20/19
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10403881	EPA8260	107-06-2	05/20/19
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10403881	EPA8260	78-87-5	05/20/19
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	78-93-3	05/20/19
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	591-78-6	05/20/19
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10403881	EPA8260	67-64-1	05/20/19
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10403881	EPA8260	107-13-1	05/20/19
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	71-43-2	05/20/19
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10403881	EPA8260	074-97-5	05/20/19
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10403881	EPA8260	75-27-4	05/20/19
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-25-2	05/20/19
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	74-83-9	05/20/19
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	75-15-0	05/20/19
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	56-23-5	05/20/19
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	108-90-7	05/20/19
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-00-3	05/20/19
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	67-66-3	05/20/19
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	74-87-3	05/20/19



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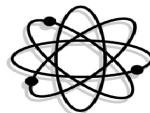
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Atkins-Tampa  
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Tampa, FL 33607

PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 15, 2019  
May 28, 2019; Invoice: 400459

Lab #: 400459SW2    Sampled: 05/15/19 10:50 AM    Desc: Trip Blank

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10403881	EPA8260	124-48-1	05/20/19
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	074-95-3	05/20/19
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	100-41-4	05/20/19
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	074-88-4	05/20/19
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	108-10-1	05/20/19
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	75-09-2	05/20/19
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	106-46-7	05/20/19
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	100-42-5	05/20/19
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	127-18-4	05/20/19
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	108-88-3	05/20/19
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	79-01-6	05/20/19
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-69-4	05/20/19
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10403881	EPA8260	108-05-4	05/20/19
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	75-01-4	05/20/19
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	1330-20-7	05/20/19
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10403881	EPA8260	156-59-2	05/20/19
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	10061-01-5	05/20/19
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	95-50-1	05/20/19
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	156-60-5	05/20/19
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10403881	EPA8260	10061-02-6	05/20/19
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10403881	EPA8260	110-57-6	05/20/19
Surr:1,2-Dichloroethane-d4 (50-150%)	99.23%		1.00	0.0100	0.0100	10403881	EPA8260		05/20/19
Surr:Bromofluorobenzene (50-150%)	119.73%		1.00	1.00	1.00	10403881	EPA8260	460-00-4	05/20/19
Surr:Toluene-d8 (50-150%)	91.77%		1.00	0.0100	0.0100	10403881	EPA8260		05/20/19



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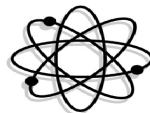
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PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 15, 2019  
May 28, 2019; Invoice: 400459

## Quality Report

Quality Control Batch: 10403435		Analyst: PCW						
Blank		Result	Units					
Nitrate(as N)		0.0100U	mg/L					
Nitrite(as N)		0.0200U	mg/L					
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim		
Nitrate(as N)		1.06	mg/L	1.00	105.70	90.00-110.00		
Nitrite(as N)		0.953	mg/L	1.00	95.30	90.00-110.00		
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number
Nitrite(as N)		3.43	mg/L	4.00	85.42	90.00-110.00	0.0131	400469GW1
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD
Nitrite(as N)		3.43	mg/L	4.00	85.42	90.00-110.00	0.0131	0.00
Quality Control Batch: 10403490		Analyst: EVB						
Blank		Result	Units					
Mercury		0.0000200U	mg/L					
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim		
Mercury		0.000984	mg/L	0.00100	98.42	80.00-120.00		
Quality Control Batch: 10403568		Analyst: GDP						
Blank		Result	Units					
TOC		1.00U	mg/L					
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim		



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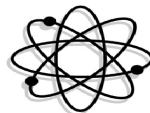
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Quality Control Batch: 10403568		Analyst: GDP						
Laboratory Control Sample	TOC	Result	Units	Spike	%REC	%REC Lim		
	TOC	10.1	mg/L	10.0	100.98	80.00-120.00		
Matrix Spike	TOC	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number
	TOC	9.51	mg/L	10.0	95.10	80.00-120.00	1.00U	400512GW1
Matrix Spike Duplicate	TOC	Result	Units	Spike	%REC	%REC Lim	Sample	RPD
	TOC	9.97	mg/L	10.0	99.68	80.00-120.00	1.00U	4.71
Quality Control Batch: 10403572		Analyst: PLB						
Blank	TSS	Result	Units					
	TSS	1.00U	mg/L					
Laboratory Control Sample	TSS	Result	Units	Spike	%REC	%REC Lim		
	TSS	102	mg/L	100	102.00	80.00-120.00		
Duplicate	TSS	Result	Units	Sample	RPD	RPD Lim	Lab Number	
	TSS	360	mg/L	348	3.39	20.00	400490WW1	
Quality Control Batch: 10403653		Analyst: IAD						
Blank	Chemical Oxygen Demand	Result	Units					
	Chemical Oxygen Demand	10.0U	mg/L					
Laboratory Control Sample	Chemical Oxygen Demand	Result	Units	Spike	%REC	%REC Lim		
	Chemical Oxygen Demand	498	mg/L	500	99.63	80.00-120.00		
Matrix Spike	Chemical Oxygen Demand	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number
	Chemical Oxygen Demand	454	mg/L	200	65.61	80.00-120.00	323	399917WW1



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Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Chemical Oxygen Demand	459	mg/L	200	67.81	80.00-120.00	323	0.96	20.00

Quality Control Batch: 10403715	Analyst: PLB							
Blank	Result	Units						
TDS	2.50U	mg/L						

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
TDS	1470	mg/L	1500	97.87	80.00-120.00

Duplicate	Result	Units	Sample	RPD	RPD Lim	Lab Number
TDS	134	mg/L	136	1.48	20.00	400486GW1

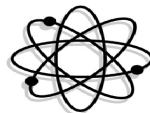
Quality Control Batch: 10403728	Analyst: VLB							
Blank	Result	Units						
TKN(as N)	0.200U	mg/L						

Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
TKN(as N)	3.25	mg/L	3.00	108.47	90.00-110.00

Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number
TKN(as N)	3.77	mg/L	3.00	113.39	90.00-110.00	0.369	400380WW2

Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
TKN(as N)	4.04	mg/L	3.00	122.30	90.00-110.00	0.369	6.84	20.00

Quality Control Batch: 10403731	Analyst: VLB							
Blank	Result	Units						
Total Phosphorus(as P)	0.0400U	mg/L						



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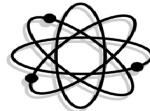
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Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Total Phosphorus(as P)	1.39	mg/L	1.50	92.72	90.00-110.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number	
Total Phosphorus(as P)	1.61	mg/L	1.50	93.07	90.00-110.00	0.209	400380WW2	
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Total Phosphorus(as P)	1.68	mg/L	1.50	97.71	90.00-110.00	0.209	4.25	20.00

Quality Control Batch: 10403807

Analyst: EVB

Blank	Result	Units
Aluminum	0.0100U	mg/L
Antimony	0.00200U	mg/L
Arsenic	0.00100U	mg/L
Barium	0.00200U	mg/L
Beryllium	0.000500U	mg/L
Cadmium	0.000200U	mg/L
Chromium	0.00100U	mg/L
Cobalt	0.00100U	mg/L
Copper	0.00100U	mg/L
Lead	0.00100U	mg/L
Nickel	0.00100U	mg/L
Selenium	0.00200U	mg/L
Silver	0.000500U	mg/L
Thallium	0.00100U	mg/L
Vanadium	0.00100U	mg/L



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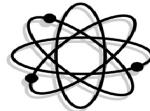
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Quality Control Batch: 10403807		Analyst: EVB			
Blank	Result	Units	Spike	%REC	%REC Lim
Zinc	0.0100U	mg/L			
Laboratory Control Sample					
Aluminum	0.101	mg/L	0.100	100.60	80.00-120.00
Antimony	0.0909	mg/L	0.100	90.90	80.00-120.00
Arsenic	0.0996	mg/L	0.100	99.60	80.00-120.00
Barium	0.107	mg/L	0.100	106.50	80.00-120.00
Beryllium	0.111	mg/L	0.100	110.60	80.00-120.00
Cadmium	0.0999	mg/L	0.100	99.90	80.00-120.00
Chromium	0.0973	mg/L	0.100	97.30	80.00-120.00
Cobalt	0.0975	mg/L	0.100	97.50	80.00-120.00
Copper	0.0973	mg/L	0.100	97.30	80.00-120.00
Lead	0.105	mg/L	0.100	105.20	80.00-120.00
Nickel	0.102	mg/L	0.100	101.80	80.00-120.00
Selenium	0.0961	mg/L	0.100	96.10	80.00-120.00
Silver	0.0998	mg/L	0.100	99.80	80.00-120.00
Thallium	0.103	mg/L	0.100	103.10	80.00-120.00
Vanadium	0.0962	mg/L	0.100	96.20	80.00-120.00
Zinc	0.106	mg/L	0.100	106.00	80.00-120.00
Matrix Spike					
	Result	Units	Spike	%REC	%REC Lim
Aluminum	0.249	mg/L	0.150	82.67	75.00-125.00
Antimony	0.174	mg/L	0.150	116.13	75.00-125.00
Arsenic	0.159	mg/L	0.150	99.00	75.00-125.00
Barium	0.148	mg/L	0.150	91.13	75.00-125.00
Beryllium	0.141	mg/L	0.150	94.20	75.00-125.00
Cadmium	0.154	mg/L	0.150	102.60	75.00-125.00
Chromium	0.189	mg/L	0.150	122.93	75.00-125.00
Cobalt	0.181	mg/L	0.150	120.40	75.00-125.00



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May 28, 2019; Invoice: 400459

**Quality Control Batch: 10403807**

**Matrix Spike**

	<b>Analyst:</b> EVB						
	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>Lab Number</b>
Copper	0.173	mg/L	0.150	115.13	75.00-125.00	0.00100U	400469GW1
Lead	0.175	mg/L	0.150	116.53	75.00-125.00	0.00100U	400469GW1
Nickel	0.179	mg/L	0.150	118.40	75.00-125.00	0.00120	400469GW1
Selenium	0.135	mg/L	0.150	89.67	75.00-125.00	0.00200U	400469GW1
Silver	0.175	mg/L	0.150	116.53	75.00-125.00	0.000500U	400469GW1
Thallium	0.172	mg/L	0.150	114.87	75.00-125.00	0.00100U	400469GW1
Vanadium	0.201	mg/L	0.150	124.27	75.00-125.00	0.0150	400469GW1
Zinc	0.152	mg/L	0.150	101.20	75.00-125.00	0.0100U	400469GW1

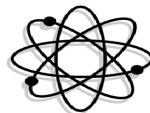
**Matrix Spike Duplicate**

	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>	<b>RPD Lim</b>
Aluminum	0.259	mg/L	0.150	89.60	75.00-125.00	0.125	4.10	20.00
Antimony	0.168	mg/L	0.150	112.27	75.00-125.00	0.00200U	3.39	40.00
Arsenic	0.158	mg/L	0.150	98.40	75.00-125.00	0.0106	0.57	20.00
Barium	0.149	mg/L	0.150	92.00	75.00-125.00	0.0113	0.87	20.00
Beryllium	0.149	mg/L	0.150	99.07	75.00-125.00	0.000500U	5.04	40.00
Cadmium	0.152	mg/L	0.150	101.47	75.00-125.00	0.000200U	1.11	20.00
Chromium	0.182	mg/L	0.150	118.53	75.00-125.00	0.00460	3.55	20.00
Cobalt	0.175	mg/L	0.150	116.73	75.00-125.00	0.00100U	3.09	40.00
Copper	0.168	mg/L	0.150	111.87	75.00-125.00	0.00100U	2.88	20.00
Lead	0.178	mg/L	0.150	118.67	75.00-125.00	0.00100U	1.81	20.00
Nickel	0.174	mg/L	0.150	114.87	75.00-125.00	0.00120	3.01	20.00
Selenium	0.134	mg/L	0.150	89.53	75.00-125.00	0.00200U	0.15	20.00
Silver	0.172	mg/L	0.150	114.87	75.00-125.00	0.000500U	1.44	20.00
Thallium	0.177	mg/L	0.150	118.07	75.00-125.00	0.00100U	2.75	40.00
Vanadium	0.192	mg/L	0.150	118.27	75.00-125.00	0.0150	4.57	20.00
Zinc	0.149	mg/L	0.150	99.27	75.00-125.00	0.0100U	1.93	20.00

**Quality Control Batch: 10403813**

**Analyst:** EVB

**Blank**      **Result**      **Units**



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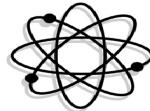
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Quality Control Batch: 10403813		Analyst: EVB						
<b>Blank</b>		<b>Result</b>	<b>Units</b>					
Iron		0.0100U	mg/L					
<b>Laboratory Control Sample</b>		<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>		
Iron		5.00	mg/L	5.00	100.02	80.00-120.00		
<b>Matrix Spike</b>		<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>Lab Number</b>
Iron		6.47	mg/L	5.00	92.49	80.00-120.00	1.84	400317GW1
<b>Matrix Spike Duplicate</b>		<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>
Iron		6.33	mg/L	5.00	89.78	80.00-120.00	1.84	2.12
<b>Quality Control Batch: 10403817</b>		Analyst: EVB						
<b>Blank</b>		<b>Result</b>	<b>Units</b>					
Total Hardness (as CaCO <sub>3</sub> )		0.100U	mg/L					
<b>Quality Control Batch: 10403881</b>		Analyst: BNP						
<b>Blank</b>		<b>Result</b>	<b>Units</b>					
1,1,1,2-Tetrachloroethane		0.500U	ug/L					
1,1,1-Trichloroethane		0.500U	ug/L					
1,1,2,2-Tetrachloroethane		0.100U	ug/L					
1,1,2-Trichloroethane		0.500U	ug/L					
1,1-Dichloroethane		0.500U	ug/L					
1,1-Dichloroethene		0.500U	ug/L					
1,2-dichloroethane		0.500U	ug/L					
1,2-dichloropropane		0.200U	ug/L					
2-Butanone (MEK)		1.00U	ug/L					
2-Hexanone		0.500U	ug/L					
Acetone		5.00U	ug/L					



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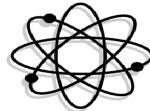
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**Quality Control Batch:** 10403881

<b>Blank</b>	<b>Analyst:</b> BNP	
	<b>Result</b>	<b>Units</b>
Acrylonitrile	0.300U	ug/L
Benzene	0.500U	ug/L
Bromochloromethane	0.100U	ug/L
Bromodichloromethane	0.100U	ug/L
Bromoform	0.500U	ug/L
Bromomethane	0.500U	ug/L
Carbon Disulfide	1.00U	ug/L
Carbon Tetrachloride	0.500U	ug/L
Chlorobenzene	0.500U	ug/L
Chloroethane	0.500U	ug/L
Chloroform	0.500U	ug/L
Chloromethane	0.500U	ug/L
Dibromochloromethane	0.400U	ug/L
Dibromomethane	0.500U	ug/L
Ethylbenzene	0.500U	ug/L
Methyl Iodide	1.00U	ug/L
Methyl isobutyl ketone	1.00U	ug/L
Methylene chloride	1.00U	ug/L
Para-dichlorobenzene	0.500U	ug/L
Styrene	0.500U	ug/L
Tetrachloroethene	0.500U	ug/L
Toluene	0.500U	ug/L
Trichloroethene	0.500U	ug/L
Trichlorofluoromethane	0.500U	ug/L
Vinyl Acetate	10.0U	ug/L
Vinyl chloride	0.500U	ug/L
Xylenes	0.500U	ug/L
cis-1,2-dichloroethene	0.200U	ug/L
cis-1,3-Dichloropropene	0.500U	ug/L



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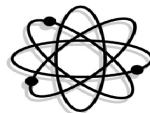
**Quality Control Batch:** 10403881

**Blank**

	<b>Analyst:</b> BNP	<b>Result</b>	<b>Units</b>
o-dichlorobenzene	0.500U	ug/L	
trans-1,2-dichloroethene	0.500U	ug/L	
trans-1,3,-Dichloropropene	0.500U	ug/L	
trans-1,4-dichloro-2-butene	1.00U	ug/L	
Surr:1,2-Dichloroethane-d4	0.0100U	ug/L	
Surr:Bromofluorobenzene	1.00U	ug/L	
Surr:Toluene-d8	0.0100U	ug/L	

**Laboratory Control Sample**

	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>
1,1,1,2-Tetrachloroethane	37.7	ug/L	40.0	94.30	50.00-150.00
1,1,1-Trichloroethane	43.1	ug/L	40.0	107.62	50.00-150.00
1,1,2,2-Tetrachloroethane	39.0	ug/L	40.0	97.60	50.00-150.00
1,1,2-Trichloroethane	35.7	ug/L	40.0	89.12	50.00-150.00
1,1-Dichloroethane	38.2	ug/L	40.0	95.38	50.00-150.00
1,1-Dichloroethene	34.5	ug/L	40.0	86.32	50.00-150.00
1,2-dichloroethane	39.8	ug/L	40.0	99.40	50.00-150.00
1,2-dichloropropane	43.3	ug/L	40.0	108.25	50.00-150.00
2-Butanone (MEK)	41.6	ug/L	40.0	104.10	50.00-150.00
2-Hexanone	33.8	ug/L	40.0	84.53	50.00-150.00
Acetone	41.1	ug/L	40.0	102.78	50.00-150.00
Acrylonitrile	40.5	ug/L	40.0	101.15	50.00-150.00
Benzene	40.6	ug/L	40.0	101.60	50.00-150.00
Bromo(chloromethane	42.0	ug/L	40.0	105.00	50.00-150.00
Bromodichloromethane	45.8	ug/L	40.0	114.37	70.00-130.00
Bromoform	36.8	ug/L	40.0	92.05	50.00-130.00
Bromomethane	31.8	ug/L	40.0	79.53	50.00-150.00
Carbon Disulfide	36.6	ug/L	40.0	91.47	50.00-150.00
Carbon Tetrachloride	42.0	ug/L	40.0	105.08	50.00-150.00
Chlorobenzene	36.4	ug/L	40.0	90.87	50.00-150.00



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**Quality Control Batch:** 10403881

**Laboratory Control Sample**

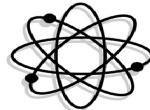
	<b>Analyst:</b> BNP				
	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>
Chloroethane	30.7	ug/L	40.0	76.70	50.00-150.00
Chloroform	36.5	ug/L	40.0	91.12	50.00-150.00
Chloromethane	30.3	ug/L	40.0	75.72	50.00-150.00
Dibromochloromethane	37.8	ug/L	40.0	94.45	50.00-150.00
Dibromomethane	41.7	ug/L	40.0	104.17	50.00-150.00
Ethylbenzene	38.0	ug/L	40.0	94.98	50.00-150.00
Methyl Iodide	38.8	ug/L	40.0	96.93	50.00-150.00
Methyl isobutyl ketone	38.0	ug/L	40.0	95.02	50.00-150.00
Methylene chloride	41.7	ug/L	40.0	104.32	50.00-150.00
Para-dichlorobenzene	33.0	ug/L	40.0	82.55	50.00-150.00
Styrene	39.1	ug/L	40.0	97.80	50.00-150.00
Tetrachloroethene	32.3	ug/L	40.0	80.70	50.00-150.00
Toluene	33.4	ug/L	40.0	83.57	50.00-150.00
Trichloroethene	41.7	ug/L	40.0	104.20	50.00-150.00
Trichlorofluoromethane	34.9	ug/L	40.0	87.12	50.00-150.00
Vinyl chloride	27.0	ug/L	40.0	67.55	50.00-150.00
Xylenes	122	ug/L	120	102.06	50.00-150.00
cis-1,2-dichloroethene	42.0	ug/L	40.0	105.08	50.00-150.00
cis-1,3-Dichloropropene	39.3	ug/L	40.0	98.28	50.00-150.00
o-dichlorobenzene	36.0	ug/L	40.0	90.02	50.00-150.00
trans-1,2-dichloroethene	39.4	ug/L	40.0	98.55	50.00-150.00
trans-1,3,-Dichloropropene	38.1	ug/L	40.0	95.17	50.00-150.00
Surr:1,2-Dichloroethane-d4	27.8	ug/L	30.0	92.63	50.00-150.00
Surr:Bromofluorobenzene	30.0	ug/L	30.0	100.10	50.00-150.00
Surr:Toluene-d8	30.6	ug/L	30.0	101.93	50.00-150.00

**Quality Control Batch:** 10403921

**Blank**

**Analyst:** AJE

**Result**      **Units**



# FLOWERS CHEMICAL LABORATORIES INC.

P.O. Box 150597, Altamonte Springs, FL 32715-0597  
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Phone: 772-343-8006 E86562 (South Lab)  
Phone: 850-973-6878 E82405 (North Lab)  
Phone: 305-743-8598 E35834 (Keys Lab)

Atkins-Tampa  
4030 W. Boy Scout Blvd, Ste 700  
Tampa, FL 33607

PO #: 1005256  
Client Project #: HARDEE COUNTY REGIONAL LAN  
Date Sampled: May 15, 2019  
May 28, 2019; Invoice: 400459

**Quality Control Batch: 10403921**

	<b>Analyst:</b> AJE					
<b>Blank</b>	<b>Result</b>	<b>Units</b>				
BOD5day	2.00U	mg/L				
<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	
BOD5day	219	mg/L	198	110.61	85.00-115.00	
<b>Duplicate</b>	<b>Result</b>	<b>Units</b>	<b>Sample</b>	<b>RPD</b>	<b>RPD Lim</b>	<b>Lab Number</b>
BOD5day	74.9	mg/L	84.9	12.48	25.00	400328WW1

**Quality Control Batch: 10404016**

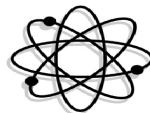
	<b>Analyst:</b> IAD
<b>Blank</b>	<b>Result</b>
Chlorophyll a	0.0200U

**Quality Control Batch: 10404023**

	<b>Analyst:</b> PCW							
<b>Blank</b>	<b>Result</b>							
Ammonia (as N)	0.0100U							
<b>Laboratory Control Sample</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>			
Ammonia (as N)	1.94	mg/L	2.00	97.00	90.00-110.00			
<b>Matrix Spike</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>Lab Number</b>	
Ammonia (as N)	1.55	mg/L	1.67	90.49	90.00-110.00	0.0389	400244WW2	
<b>Matrix Spike Duplicate</b>	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>	<b>RPD Lim</b>
Ammonia (as N)	1.54	mg/L	1.67	89.89	90.00-110.00	0.0389	0.65	20.00

**Quality Control Batch: 10404365**

	<b>Analyst:</b> DLJ
<b>Blank</b>	<b>Result</b>



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May 28, 2019; Invoice: 400459

**Quality Control Batch:** 10404365

**Analyst:** DLJ

**Blank**

	<b>Result</b>	<b>Units</b>
1,2,3-Trichloropropane	0.0200U	ug/L
1,2-Dibromoethane (EDB)	0.0100U	ug/L
1,2-dibromo-3-chloropropane	0.0200U	ug/L

**Laboratory Control Sample**

	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>
1,2,3-Trichloropropane	0.225	ug/L	0.251	89.34	50.00-170.00
1,2-Dibromoethane (EDB)	0.266	ug/L	0.251	105.73	50.00-170.00
1,2-dibromo-3-chloropropane	0.225	ug/L	0.251	89.54	50.00-170.00

**Matrix Spike**

	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>Lab Number</b>
1,2,3-Trichloropropane	0.274	ug/L	0.251	109.11	50.00-170.00	0.0200U	401246GW3M:
1,2-Dibromoethane (EDB)	0.285	ug/L	0.251	113.21	50.00-170.00	0.0100U	401246GW3M:
1,2-dibromo-3-chloropropane	0.248	ug/L	0.251	98.49	50.00-170.00	0.0200U	401246GW3M:

**Matrix Spike Duplicate**

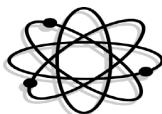
	<b>Result</b>	<b>Units</b>	<b>Spike</b>	<b>%REC</b>	<b>%REC Lim</b>	<b>Sample</b>	<b>RPD</b>	<b>RPD Lim</b>
1,2,3-Trichloropropane	0.283	ug/L	0.251	112.37	50.00-170.00	0.0200U	2.95	30.00
1,2-Dibromoethane (EDB)	0.281	ug/L	0.251	111.77	50.00-170.00	0.0100U	1.27	30.00
1,2-dibromo-3-chloropropane	0.278	ug/L	0.251	110.70	50.00-170.00	0.0200U	11.68	30.00

**Quality Control Batch:** 10404410

**Analyst:** PCW

**Blank**

	<b>Result</b>	<b>Units</b>
Unionized NH3(as N)	0.000100U	mg/L



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## Narrative Report

### Sample Handling

Sample handling and holding time criteria were met for all samples. Samples collected by submitter. No unusual events occurred during analysis. Results are reported on a wet weight basis for aqueous matrices and on a dry weight basis for sludge and soil matrices unless otherwise noted.

### Quality Control

Enclosed analyses met method or FCL criteria, unless otherwise denoted on the sample results. Applied data qualifiers are defined below.

### Attachments

Chain of Custody

Qualifier	Meaning
U	Compound was analyzed for but not detected.
J	Estimated value; one or more QC components associated with this data value exceed current QC limits.
Q	Sample held beyond the accepted holding time.
L	Off-scale high; reported concentration exceeds the highest standard.
V	Analyte was detected in both the sample and the associated method blank.
W	The dissolved oxygen blank was above 0.2 mg/L but less than the MDL.
Z	Too numerous to count colonies on plate.
A	Absent
P	Present
T	Value reported is less than the statistical method detection limit. Reported for informational purposes only.
M	Value reported is greater than the statistical method detection limit, but less than the reported MDL.
G	The greatest of the dilutions performed did not yield sufficient oxygen depletion for valid data.
S	The least of the dilutions performed did not yield sufficient oxygen residual for valid data.
O	Result is greater than (over) the specified value.
I	Reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
B	Results based upon colony plate count outside ideal range.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.

**Check Box That Applies To Your Location**

Flowers Chemical Laboratories, Inc.

481 Newburyport Ave.  
Altamonte Springs, FL 32701  
Bus: 407-339-5984  
Fax: 407-260-6110

Flowers Chemical Labs-South

West Park Industrial Plaza  
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Port St. Lucie, FL 34986  
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Flowers Chemical Labs-North

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Flowers Chemical Labs-Keys

3980 Overseas Highway, Ste. 103  
Marathon, FL 33050  
Bus: 305-743-8598  
Fax: 305-743-8598



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Client

Atkins North America  
4030 W. Boy Scout Boulevard  
Suite 700, Tampa, FL 33607  
Phone 813-281-8377

Sampled By (PRINT):

Bradley J. Bayne

Sampler Signature

*Bradley J. Bayne* Date Sampled 5/15/19

GW - ground water DW - drinking water WW - wastewater  
SW - surface water SO - soil/solid SL - sludge HW - waste

ITEM NO.	SAMPLE ID	DATE	TIME	MATRIX	(LAB USE ONLY) LAB NO.	PRESERVATIVES					ANALYSES REQUEST	COMMENTS	Total # Containers							
						NONE	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>										
1	SW-2	5/15/19	10:50	SW	400459SWI	6	2	1	3	1	✓	✓	✓	✓	✓	✓	✓	✓	Run	
2	Trip Blank					SW2	1				V									Hardee LF
3																			List	
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
<i>Bradley</i>	5/15/19	12:00	<i>John</i>	5/15/19	12:00	<i>John</i>	5/15/19	14:33	<i>John</i>	5/15	14:33

**FINANCE CHARGES APPLIED TO PAST DUE INVOICES**

• WHITE - Lab Copy - To Be Scanned

• YELLOW - Client Copy