



Atkins North America, Inc.

482 South Keller Road

Orlando, Florida 32810-6101

Telephone: +1.407.647.7275

www.atkinsglobal.com/northamerica

January 15, 2020

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
Second 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 second 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**.

SECOND HALF 2019 SAMPLING EVENT

The second half of 2019 sampling event was conducted on December 18 and 19, 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.

SECOND 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**. 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 0.0019 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. One volatile organic analyte, toluene, was detected in the groundwater (at MW-4), but the concentration (0.610 ug/l) was significantly less than its groundwater quality standard. The inorganic analyte detections included all of those which are typically part of the analytical program except antimony, cadmium, 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 four analytes detected at concentrations that did not comply with their standards – pH, iron, arsenic, and Total Dissolved Solids (TDS). Iron, pH, and TDS 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 four 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 five of the eight wells were less than 6.5 SU, and the pH measured as low as 4.73 SU at well MW-1. The pH values at wells MW-2, MW-10R, and MW-12R were

within the standard range. The pH values at both of the background wells, MW-1 (with a pH of 4.73 SU) and MW-4 (with a pH of 6.38 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 seven of the eight monitoring wells exceeded the standard. The iron concentration was less than the standard at MW-12R. 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 December 2019 was 31.5 mg/L (at MW-11).
- 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 December 2019 was 0.0156 mg/L, which compares closely with the May 2019 arsenic concentration (0.0118 mg/L) and with the December 2018 arsenic concentration (0.0132 mg/L). MW-4 is designated as a background well.
- TDS –The standard for TDS is 500 mg/L. The TDS concentration slightly exceeded this standard, with a value of 582 mg/L, at MW-12R. In the past (2016), exceedances for TDS have occurred at background wells (MW-1 and MW-4), but exceedances for TDS do not occur routinely.

A summary of the groundwater analytical results is presented in **Table 2**, and the laboratory analytical reports are provided in **Attachment C**. Trending data for these analytes is developed in the Five-Year Submittal report submitted to FDEP. The most recent Five-Year Submittal report was submitted to FDEP separately by SCS Engineers in September 2019.

Surface Water Analytical Results

There were several inorganic analytes detected in the surface water sample (SW-2). No volatile organic analytes were detected in the surface water. 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**.

The only laboratory parameter that was detected in excess of its standard was fecal coliform. Fecal coliform was detected at a concentration of 2,420 most probable number of fecal coliforms per 100 ml (mpn/100 ml), which exceeds the standard of 800 mpn/100 ml. It should be noted that the surface water sampling location (SW-2) is downstream of a wetland area utilized by vultures, deer, and wild pigs. There was recent heavy rainfall at the site in the two days prior to sampling. The site previously had issues with elevated fecal coliform concentrations in the surface water under similar circumstances (May 2018), so this parameter will be tracked in future sampling events.

The pH field measurement was not in compliance with its surface water criteria. The pH was measured at 5.48 SU, which is less than the standard range of 6 – 8.5 SU. The Dissolved Oxygen field measurement was not in compliance with its surface water criteria. Dissolved Oxygen was measured at a concentration of 1.96 mg/L, which is less than the criteria of greater than 5 mg/L.

SUMMARY AND CONCLUSIONS

The results of the second 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 four analytes detected in the groundwater that did not comply with their regulatory standards: arsenic, pH, iron, and TDS were 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).

Elevated fecal coliform concentrations were detected in the surface water sample (SW-2). This result was attributed to the combination of heavy rainfall and wildlife activity in the wetlands upstream of the sampling location in the days prior to sampling. The fecal coliform concentrations will be tracked in future surface water sampling events. pH was measured at SW-2 in the field at 5.48 SU, which is less than the criteria of 6 SU. Dissolved Oxygen was measured in the field at a concentration of 1.96 mg/L, which is less than the criteria of greater than 5 mg/L. These field findings are generally consistent with most of the recent surface water sampling results, although the pH reading is lower 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,



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

CC: Ken Wheeler, Engineer, Hardee County Public Works (2 copies)
FILE 100069014

TABLES

Table 1
Groundwater Elevation Data
Hardee County Landfill
Second 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)
Monitoring Wells						
MW-1	87.97	86.24	11.00	4	5.49	82.48
MW-2	85.86	83.75	10.50	4	5.15	80.71
MW-4	87.16	84.09	18.90	2	5.99	81.17
MW-10R	88.56	85.49	15.12	2	8.68	79.88
MW-11	88.11	85.17	13.90	2	9.53	78.58
MW-12R	89.00	85.71	23.25	2	9.57	79.43
MW-13	88.88	NM	23.00	2	5.83	83.05
MW-14	88.16	NM	23.00	2	4.82	83.34
Piezometers						
MW-6	88.25	85.06	NA	2	8.81	79.44
MW-7	87.88	84.98	NA	2	7.88	80.00
P-7	84.47	82.41	NA	2	4.55*	79.92
P-8	85.32	83.25	NA	2	6.05	79.27
P-11	88.69	86.16	NA	2	8.12	80.57
P-13	87.96	87.98	NA	2	7.91	80.05
P-14	87.31	84.05	NA	2	6.58	80.73
P-17	88.82	85.88	NA	2	3.87	84.95
P-18	88.74	84.37	NA	2	4.77	83.97
P-19	86.73	84.14	NA	2	3.59	83.14
P-20	87.6	84.68	NA	2	5.17	82.43
P-21	86.63	83.57	NA	2	6.01	80.62
P-22	87.04	84.09	NA	2	6.08	80.96
P-23	86.45	83.71	NA	2	5.51	80.94
Staff Gauges						
SG-1	80.51#	NA	NA	NA	+2.6**	83.11
SG-2	78.57#	NA	NA	NA	+4.5**	83.07

NM = Not measured NA = Not applicable or available

* = casing cut off # = lag bolt/zero elevation

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

Table 3
Surface Water Analytical Summary
Hardee County Landfill
Second Half 2019

Analyte	Location:		SW-2
	Sample Identifier:		SW-2
	Date of Test:		12/19/2019
	Standard(1)	Units	
Field Measurements			
Temperature		deg. C	14.87
pH	6-8.5	STD	5.48
Conductivity	1275	uS/cm	401
Dissolved Oxygen (DO)	>5	mg/l	1.96
Turbidity	29+	NTU	3.28
Inorganics			
Nitrate (as N)		mg/l	0.0200 U
Nitrite (as N)		mg/l	0.0200 U
Total Dissolved Solids (TDS)		mg/l	296
Aluminum	1.5	mg/l	0.0100 U
Ammonia (as N)		mg/l	2.20
Antimony	4.3	mg/l	0.00200 U
Arsenic	0.05	mg/l	0.00140 I
Barium		mg/l	0.0082
Beryllium	0.00013	mg/l	0.000500 U
Cadmium	Note 2	mg/l	0.00100 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	0.763
Lead	Note 5	mg/l	0.00100 U
Mercury	0.000012	mg/l	0.00000500 U
Nickel	Note 6	mg/l	0.00160 I
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	2,420 J
Total Hardness (as CaCO ₃)		mg/l	141
Total Organic Carbon (TOC)		mg/l	28.4
Total Nitrogen		mg/l	4.80
Total Phosphorus		mg/l	1.26
Total Suspended Solids (TSS)		mg/l	1.75 I
Un-ionized Ammonia	0.02	mg/l	0.000880
Biological Oxygen Demand (BOD)		mg/l	5.86
Chemical Oxygen Demand (COD)		mg/l	70.4
Chlorophyll A		ug/l	1.55
Total Kheldahl Nitrogen (TKN) (as N)		mg/l	4.80
Organics			
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:		12/19/2019
	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	5.00 U
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; one or more QC components exceeds QC limits

(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 $e(0.819(\ln H)+0.6848)$

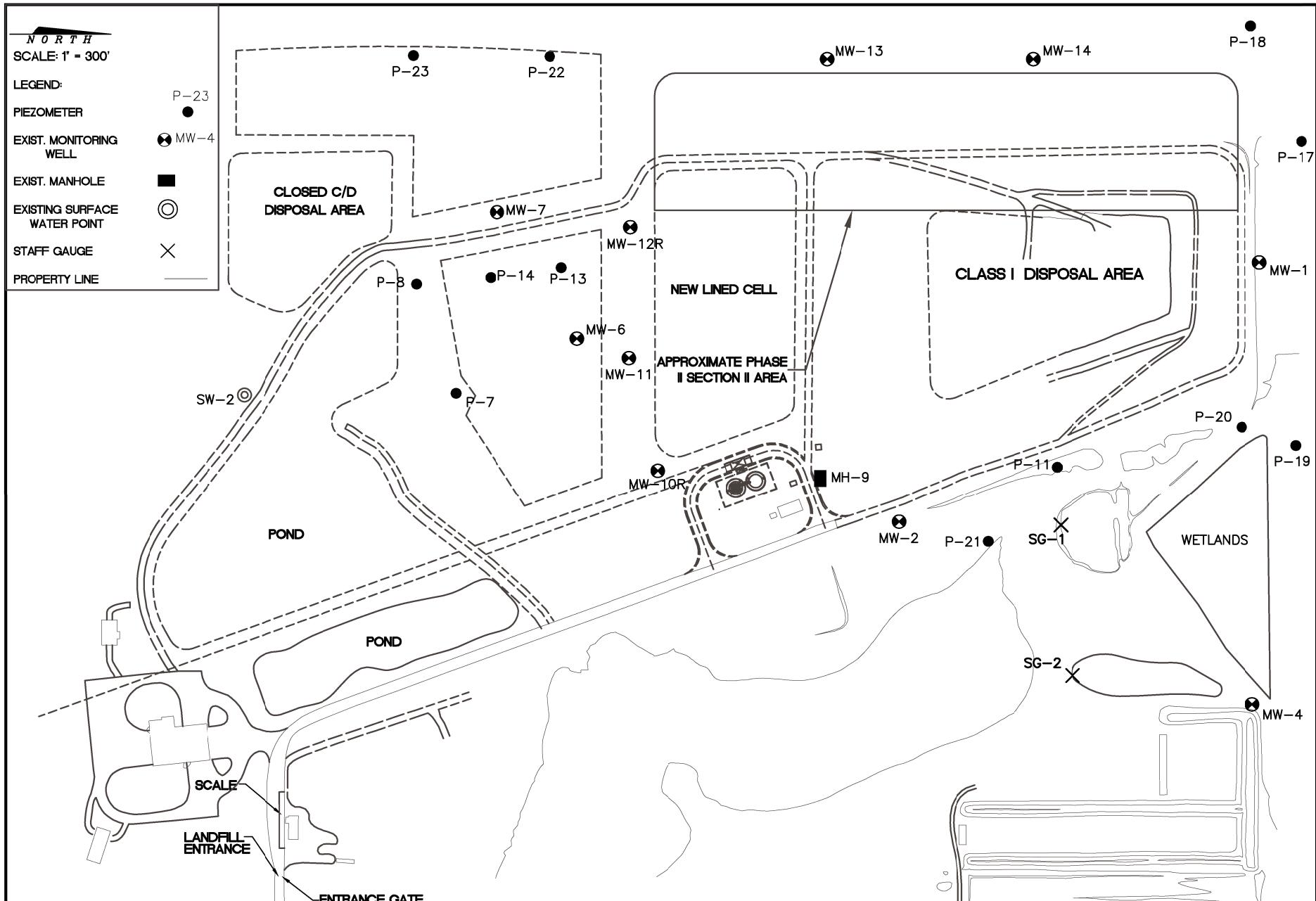
(4) Cu less than or equal to $e(0845(\ln H)-1.702)$

(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

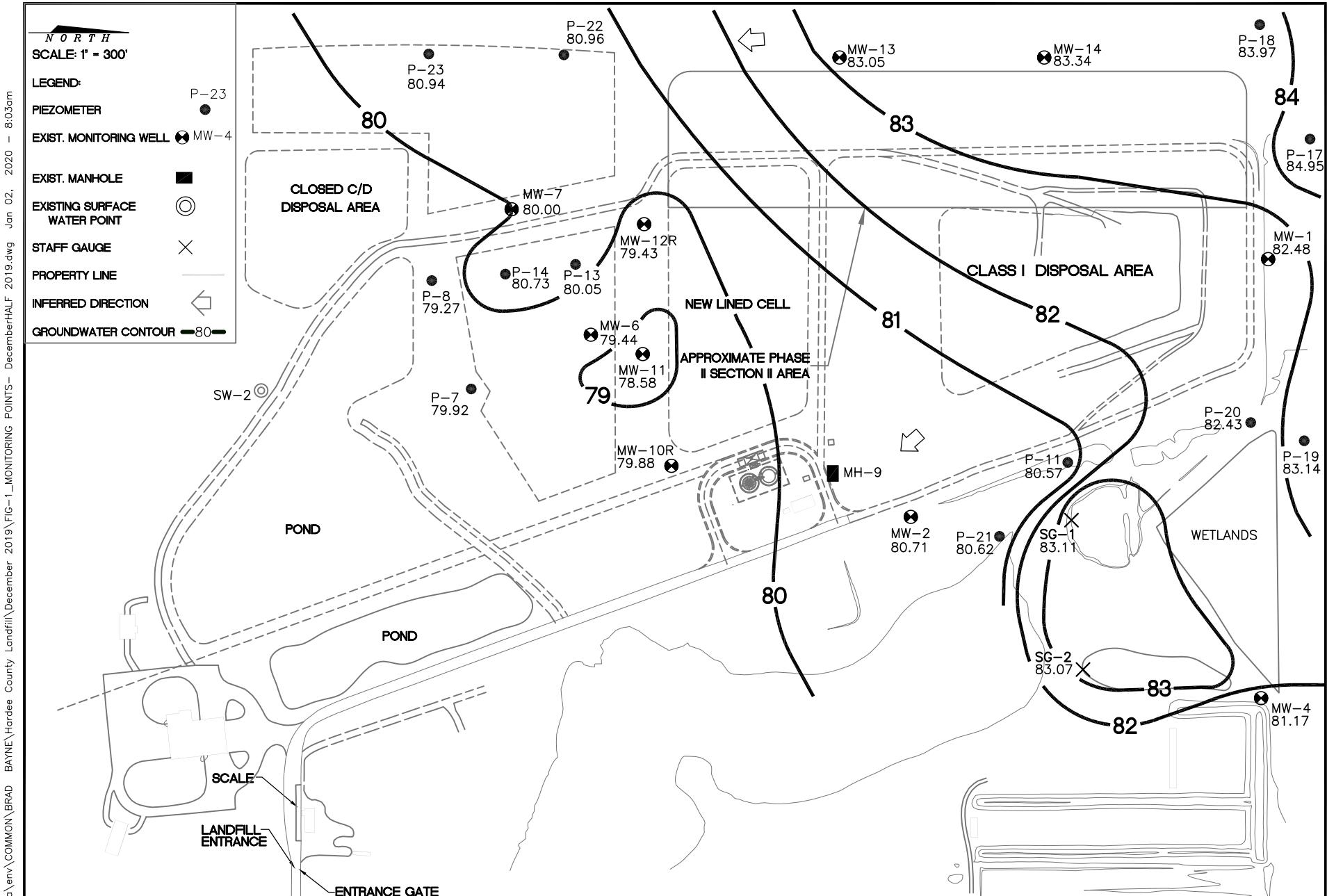


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**HARDEE COUNTY
LANDFILL**

MONITORING POINTS

FIGURE 1



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**HARDEE COUNTY
LANDFILL**

**WATER TABLE
ELEVATION CONTOUR MAP
SECOND 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.

January 15, 2020

(Date)

Bradley J. Bayne

(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)

Northwest District
160 Government Center
Pensacola, FL 32501-5794
850-595-8360

Northeast District
7825 Baymeadows Way, Ste. 200 B
Jacksonville, FL 32256-7590
904-807-3300

Central District
3319 Maguire Blvd., Ste. 232
Orlando, FL 32803-3767
407-894-7555

Southwest District
13051 N. Telecom Pky.
Temple Terrace, FL
813-632-7600

South District
2295 Victoria Ave., Ste. 364
Fort Myers, FL 33902-2549
239-332-6975

Southeast District
400 North Congress Ave.
West Palm Beach, FL 33401
561-681-6600

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-2	SAMPLE ID: MW-2	DATE: 12/18/19									
PURGING DATA											
WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 5.15								
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (12.70 feet - 5.15 feet) X 0.65 gallons/foot = 4.90 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): 8.5		FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8.5	PURGING INITIATED AT: 9:35 PURGING ENDED AT: 10:15 TOTAL VOLUME PURGED (gallons): 6.5								
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/l or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:00	5.0	5.0	0.2	6.85	6.90	21.80	737	1.45	9.37	Clear	None
10:05	0.5	5.5	0.1	6.70	6.90	21.82	740	1.13	9.83		
10:10	0.5	6.0	0.1	6.68	6.89	21.87	751	1.09	7.90		
10:15	0.5	6.5	0.1	6.68	6.89	21.87	754	1.02	8.51		
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: Brad Bayne / Atkins			SAMPLER(S) SIGNATURE(S): <i>Buzz J. Bayne</i>			SAMPLING INITIATED AT: 10:15	SAMPLING ENDED AT: 10:25	
PUMP OR TUBING DEPTH IN WELL (feet): 8.5			TUBING MATERIAL CODE: S + HDPE		FIELD-FILTERED: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	FILTER SIZE: _____ μm Filtration Equipment Type:		
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/> N			TUBING Y <input checked="" type="checkbox"/> N (replaced)			DUPLICATE: Y <input checked="" type="checkbox"/> N		
SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)			
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:	Hardee County Landfill			SITE LOCATION:	685 Airport Rd., Wauchula		
WELL NO:	MW-4	SAMPLE ID:	MW-4		DATE:		12/18/19

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL SCREEN INTERVAL DEPTH:	feet to feet	STATIC DEPTH TO WATER (feet):	5.99	PURGE PUMP TYPE OR BAILER:	Peristaltic		
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				= (21.60 feet - 5.99 feet) X 0.16 gallons/foot = 2.50 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):		8	FINAL PUMP OR TUBING DEPTH IN WELL (feet):		8	PURGING INITIATED AT:	8:45	PURGING ENDED AT:	9:20	TOTAL VOLUME PURGED (gallons):	3.5
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)
9:10	2.5	2.5	0.1	7.02	6.40	21.45	312	1.47	3.15	Brown	None
9:15	0.5	3.0	0.1	7.01	6.39	21.44	313	1.30	3.46	↓	↓
9:20	0.5	3.5	0.1	7.02	6.38	21.44	310	1.19	2.36	Clear	↓

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 Bayne</i>			SAMPLING INITIATED AT:	9:20	SAMPLING ENDED AT:	9:30
PUMP OR TUBING DEPTH IN WELL (feet): 8			TUBING MATERIAL CODE:	5 + HDPE	FIELD-FILTERED: Y <input checked="" type="radio"/> N	Filtration Equipment Type:	FILTER SIZE: _____ μm		
FIELD DECONTAMINATION: PUMP Y <input checked="" type="radio"/> N			TUBING Y <input checked="" type="radio"/> N (replaced)			DUPPLICATE: Y <input checked="" type="radio"/> N			
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: ± 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: Hardee County Landfill	SITE LOCATION: 685 Airport Rd., Wauchula
WELL NO: MW-10R	SAMPLE ID: MW-10R
DATE: 12/19/19	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 8.68	PURGE PUMP TYPE OR BAILER: Peristaltic
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)		$= (23.02 \text{ feet} - 8.68 \text{ feet}) \times 0.16 \text{ gallons/foot} = 2.29 \text{ gallons}$		
EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY (only fill out if applicable)		$= \text{gallons} + (\text{gallons/foot} \times \text{TUBING LENGTH}) + \text{FLOW CELL VOLUME}$		
INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11		FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11	PURGING INITIATED AT: 9:30	PURGING ENDED AT: 10:10
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)
9:55	2.5	2.5	0.1	9.15 6.54 23.48 646 0.64 8.34
10:00	0.5	3.0	0.1	9.16 6.52 23.42 645 0.54 7.67
10:05	0.5	3.5	0.1	9.15 6.51 23.44 644 0.51 7.26
10:10	0.5	4.0	0.1	9.15 6.51 23.47 643 0.48 7.34
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: Brad Bayne / Atkins	SAMPLER(S) SIGNATURE(S): Brad Bayne	SAMPLING INITIATED AT: 10:10	SAMPLING ENDED AT: 10:20						
PUMP OR TUBING DEPTH IN WELL (feet): 11	TUBING MATERIAL CODE: 5+HDPE	FIELD-FILTERED: Y <input checked="" type="checkbox"/>	FILTER SIZE: _____ µm						
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/>	TUBING Y <input checked="" type="checkbox"/> (replaced)	DUPPLICATE: 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)
<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: ± 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:	Hardee County Landfill			SITE LOCATION:	685 Airport Rd., Wauchula		
WELL NO:	MW-11		SAMPLE ID:	MW-11		DATE:	12/19/19

PURGING DATA

WELL DIAMETER (inches):	<u>2</u>	TUBING DIAMETER (inches):	<u>1/4</u>	WELL SCREEN INTERVAL DEPTH: feet to feet		STATIC DEPTH TO WATER (feet):	<u>9.53</u>	PURGE PUMP TYPE OR BAILER: <u>Peristaltic</u>			
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)				= (<u>13.90</u> feet - <u>9.53</u> feet) X <u>0.16</u> gallons/foot = <u>0.7</u> 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):	<u>11.5</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	<u>11.5</u>	PURGING INITIATED AT:	<u>8:40</u>	PURGING ENDED AT:	<u>9:10</u>	TOTAL VOLUME PURGED (gallons): <u>3.0</u>			
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (<u>circle units</u>) <u>µmhos/cm</u> or <u>µS/cm</u>	DISSOLVED OXYGEN (<u>circle units</u>) <u>mg/L</u> or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
8:55	<u>1.5</u>	<u>1.5</u>	<u>0.1</u>	<u>9.95</u>	<u>5.87</u>	<u>22.26</u>	<u>145</u>	<u>0.79</u>	<u>35.9</u>	<u>clear</u>	<u>None</u>
9:00	<u>0.5</u>	<u>2.0</u>	<u>0.1</u>	<u>9.96</u>	<u>5.85</u>	<u>22.33</u>	<u>143</u>	<u>0.74</u>	<u>38.5</u>	<u>↓</u>	<u>↓</u>
9:05	<u>0.5</u>	<u>2.5</u>	<u>0.1</u>	<u>9.96</u>	<u>5.83</u>	<u>22.38</u>	<u>140</u>	<u>0.68</u>	<u>38.2</u>	<u>↓</u>	<u>↓</u>
9:10	<u>0.5</u>	<u>3.0</u>	<u>0.1</u>	<u>9.95</u>	<u>5.82</u>	<u>22.35</u>	<u>138</u>	<u>0.58</u>	<u>33.1</u>	<u>↓</u>	<u>↓</u>
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: <u>B</u> = Bailer; <u>BP</u> = Bladder Pump; <u>ESP</u> = Electric Submersible Pump; <u>PP</u> = Peristaltic Pump; <u>O</u> = Other (Specify)											

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Brad Bayne/ Atkins</u>	SAMPLER(S) SIGNATURE(S): <u>Brad Bayne</u>	SAMPLING INITIATED AT: <u>9:10</u>	SAMPLING ENDED AT: <u>9:20</u>						
PUMP OR TUBING DEPTH IN WELL (feet): <u>11.5</u>	TUBING MATERIAL CODE: <u>S+HDPE</u>	FIELD-FILTERED: <u>Y</u> <u>N</u>	FILTER SIZE: _____ <u>µm</u> Filtration Equipment Type:						
FIELD DECONTAMINATION: PUMP <u>Y</u> <u>N</u>	TUBING <u>Y</u> <u>N</u> (replaced)	DUPLICATE: <u>Y</u> <u>N</u>							
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: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Hardee County Landfill	SITE LOCATION: 685 Airport Rd., Wauchula
WELL NO: MW-1ZR	SAMPLE ID: MW-1ZR
DATE: 12/18/19	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 9.57	PURGE PUMP TYPE OR BAILER: Peristaltic							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (23.04 feet - 9.57 feet) X 0.16 gallons/foot = 2.016 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): 12	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13	PURGING INITIATED AT: 14:10	PURGING ENDED AT: 14:50	TOTAL VOLUME PURGED (gallons): 4.0							
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)
14:35	2.5	2.5	0.1	11.60	6.88	22.47	9.80	1.45	1.34	clear	None
14:40	0.5	3.0	0.1	11.61	6.87	22.47	9.79	1.43	1.21	↓	
14:45	0.5	3.5	0.1	11.61	6.86	22.52	9.77	1.42	1.41	↓	
14:50	0.5	4.0	0.1	11.61	6.85	22.56	9.76	1.42	1.34	↓	
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: Brad Bayne / Atkins	SAMPLER(S) SIGNATURE(S): Brad Bayne	SAMPLING INITIATED AT: 14:50	SAMPLING ENDED AT: 15:00						
PUMP OR TUBING DEPTH IN WELL (feet): 13	TUBING MATERIAL CODE: 5 + HDPE	FIELD-FILTERED: Y <input checked="" type="checkbox"/> Filtration Equipment Type:	FILTER SIZE: _____ μm						
FIELD DECONTAMINATION: PUMP Y <input checked="" type="checkbox"/>	TUBING Y <input checked="" type="checkbox"/> (replaced)	DUPPLICATE: 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)
<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: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: WELL NO:	Hardee County Landfill MW-13		SITE LOCATION: SAMPLE ID:	685 Airport Rd., Wauchula mw-13		DATE:
						12/18/19

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 5.83	PURGE PUMP TYPE OR BAILER: Peristaltic							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (20.79 feet - 5.83 feet) X 0.16 gallons/foot = 2.39 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): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 13:05	PURGING ENDED AT: 13:45	TOTAL VOLUME PURGED (gallons): 4.0							
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)
13:30	2.5	2.5	0.1	6.22	5.62	21.72	206	0.40	9.85	clear	None
13:35	0.5	3.0	0.1	6.23	5.62	21.72	207	0.39	8.81	↓	↓
13:40	0.5	3.5	0.1	6.23	5.61	21.70	208	0.37	7.22	↓	↓
13:45	0.5	4.0	0.1	6.23	5.61	21.61	209	0.37	7.23	↓	↓
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: Brad Bayne / Atkins	SAMPLER(S) SIGNATURE(S): Brad Bayne			SAMPLING INITIATED AT: 13:45	SAMPLING ENDED AT: 13:55		
PUMP OR TUBING DEPTH IN WELL (feet): 8	TUBING MATERIAL CODE:	FIELD-FILTERED: Y <input checked="" type="checkbox"/> 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)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED			
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: Hardee County Landfill	SITE LOCATION: 685 Airport Rd., Wauchula
WELL NO: MW-14	SAMPLE ID: MW-14
DATE: 12/18/19	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 4.82	PURGE PUMP TYPE OR BAILER: Peristaltic							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) = (20.35 feet - 4.82 feet) X 0.16 gallons/foot = 2.50 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): 7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7	PURGING INITIATED AT: 12:05	PURGING ENDED AT: 12:50	TOTAL VOLUME PURGED (gallons): 4.5							
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)
12:35	3.0	3.0	0.1	5.15	6.39	21.37	600	1.12	4.52	Tan	None
12:40	0.5	3.5	0.1	5.16	6.39	21.38	603	1.01	3.80	↓	↓
12:45	0.5	4.0	0.1	5.16	6.40	21.35	605	0.99	3.80	Clear	↓
12:50	0.5	4.5	0.1	5.16	6.39	21.34	604	0.94	2.27	↓	↓

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: Brad Bayne / Atkins	SAMPLER(S) SIGNATURE(S): Brad Bayne	SAMPLING INITIATED AT: 12:50	SAMPLING ENDED AT: 13:00						
PUMP OR TUBING DEPTH IN WELL (feet): 7	TUBING MATERIAL CODE: 5 + HDPE	FIELD-FILTERED: Y N	FILTER SIZE: _____ μm Filtration Equipment Type:						
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N							
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: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

DEP Form FD 9000-24: GROUNDWATER SAMPLING LOG

SITE NAME: Hardee County Landfill	SITE LOCATION: 685 Airport Rd., Wauchula
WELL NO: SW-2	SAMPLE ID: SW-2
DATE: 12/19/19	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: Peristaltic							
WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)											
= (feet - feet) X gallons/foot = 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): 8	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 8	PURGING INITIATED AT: 10:35	PURGING ENDED AT: 10:50	TOTAL VOLUME PURGED (gallons): 2.0							
TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) μmhos/cm or μS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
10:40	1.0	1.0	0.2	—	5.51	14.87	403	2.11	3.03	Clear	None
10:45	0.5	1.5	0.1	—	5.50	14.88	401	1.99	3.92	↓	↓
10:50	0.5	2.0	0.1	—	5.48	14.87	401	1.96	3.28	↓	↓
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: Brad Bayne/ Atkins	SAMPLER(S) SIGNATURE(S): Brad Bayne	SAMPLING INITIATED AT: 10:50	SAMPLING ENDED AT: 11:30						
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE: 5+HDPE	FIELD-FILTERED: Y <input checked="" type="checkbox"/> Filtration Equipment Type:	FILTER SIZE: _____ μm						
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)
<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:** ± 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)

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#)

YSI 556

INSTRUMENT # OSM1466AD

PARAMETER: [check only one]

Provided by Peterson Env.

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) Provided by Peterson Env.

Standard B _____

Standard C _____

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/18/19	8:25	A	8.56	8.54	<1%	Yes	Init.	BB
12/19/19	8:22	A	8.56	8.54	<1%	Yes	Init.	BB

Field Instrument Calibration Records

INSTRUMENT (MAKE/MODEL#) Hach 2100 Q INSTRUMENT # _____

PARAMETER: [check only one] Provided by Peterson Env.

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 Env.

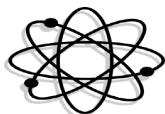
Standard B 20 NTU

Standard C

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
12/18/19	8:28	A	10	10.1	<1%	Yes	Init.	BB
12/18/19	8:29	B	20	19.9	<1%	Yes	Init.	BB
12/19/19	8:25	A	10	10.0	0%	Yes	Init.	BB
12/19/19	8:26	B	20	19.8	<1%	Yes	Init.	BB

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

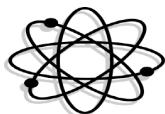
PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 18, 2019
Dec 27, 2019; Invoice: 422625

Report Summary

Date Received: Dec 19, 2019

FCL Project Manager: June S. Flowers

Laboratory #	Sample Description	Analysis	Chemist	Location	Sample Matrix
422625GW1	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	
422625GW2	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	
422625GW3	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	



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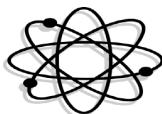
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Dec 27, 2019; Invoice: 422625

422625GW4	MwW-14/29064	FT1600	RJC	Main Lab	Ground Water
		SM2540 C	PLB	Main Lab	
422625GW5	MW-13/29063	SM4500-CI E	VLB	Main Lab	Ground Water
		EPA350.1	PCW	Main Lab	
422625GW6	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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Atkins-Tampa
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 18, 2019
Dec 27, 2019; Invoice: 422625

422625GW7 Trip Blank 1

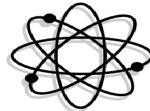
SM4500-CI E VLB Main Lab
EPA8260 BNP Main Lab Ground Water

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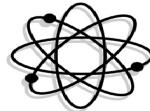
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4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 18, 2019
Dec 27, 2019; Invoice: 422625

Analysis Report

Lab #: 422625GW1 Sampled: 12/18/19 09:20 AM Desc: MW-4/299

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Nitrate(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10422094	EPA353.2	14797-55-8	12/19/19 05:30 PM
Chloride	11.1	mg/L	1.00	4.00	8.00	10422202	SM4500-CI E	16887-00-6	12/21/19
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10422213	EPA6020	7440-36-0	12/19/19
Arsenic	0.0156	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-38-2	12/19/19
Barium	0.0101	mg/L	1.00	0.00200	0.00400	10422213	EPA6020	7440-39-3	12/19/19
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10422213	EPA6020	7440-41-7	12/19/19
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-43-9	12/19/19
Chromium	0.00600	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-47-3	12/19/19
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-48-4	12/19/19
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-50-8	12/19/19
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7439-92-1	12/19/19
Nickel	0.00120 I	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-02-0	12/19/19
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10422213	EPA6020	7782-49-2	12/19/19
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10422213	EPA6020	7440-22-4	12/19/19
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-28-0	12/19/19
Vanadium	0.0210	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-62-2	12/19/19
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10422213	EPA6020	7440-66-6	12/19/19
Field Ground Water Elevation	81.2	ft	1.00	-10.0	-10.0	10422218	FT1000		12/19/19
Field pH (units)	6.38	pH	1.00	0.0100	0.0200	10422219	FT1100	C006	12/19/19
Field Conductivity	310	umhos/cm	1.00	0.0100	0.0100	10422220	FT1200		12/19/19
Field Temp. (C)	21.4	oC	1.00	0.0100	0.0100	10422221	FT1400		12/19/19
Field DO	1.19	mg/L	1.00	0.0100	0.0100	10422222	FT1500		12/19/19
Field Turbidity	2.36	NTU	1.00	0.0100	0.0100	10422223	FT1600		12/19/19
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10422389	EPA7470	7439-97-6	12/24/19
Iron	9.65	mg/L	1.00	0.0100	0.0200	10422410	EPA6010	7439-89-6	12/24/19
Sodium	8.55	mg/L	1.00	0.500	1.00	10422410	EPA6010	7440-23-5	12/24/19
TDS	292	mg/L	1.00	2.50	5.00	10422453	SM2540 C	10-33-3	12/20/19



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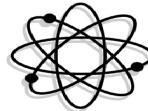
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Phone: 305-743-8598 E35834 (Keys Lab)

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

PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 18, 2019
Dec 27, 2019; Invoice: 422625

Lab #: 422625GW1 Sampled: 12/18/19 09:20 AM Desc: MW-4/299

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	10422458	EPA8260	630-20-6	12/24/19
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	71-55-6	12/24/19
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10422458	EPA8260	79-34-5	12/24/19
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	79-00-5	12/24/19
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-34-3	12/24/19
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-35-4	12/24/19
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10422458	EPA8260	107-06-2	12/24/19
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10422458	EPA8260	78-87-5	12/24/19
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	78-93-3	12/24/19
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	591-78-6	12/24/19
2-chloroethylvinylether	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	110-75-8	12/24/19
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10422458	EPA8260	67-64-1	12/24/19
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10422458	EPA8260	107-13-1	12/24/19
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	71-43-2	12/24/19
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10422458	EPA8260	074-97-5	12/24/19
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10422458	EPA8260	75-27-4	12/24/19
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-25-2	12/24/19
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	74-83-9	12/24/19
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	75-15-0	12/24/19
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	56-23-5	12/24/19
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	108-90-7	12/24/19
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-00-3	12/24/19
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	67-66-3	12/24/19
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	74-87-3	12/24/19
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10422458	EPA8260	124-48-1	12/24/19
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	074-95-3	12/24/19
Dichlorodifluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-71-8	12/24/19
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	100-41-4	12/24/19
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	074-88-4	12/24/19



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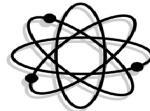
PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 18, 2019
Dec 27, 2019; Invoice: 422625

Lab #: 422625GW1 Sampled: 12/18/19 09:20 AM Desc: MW-4/299

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	108-10-1	12/24/19
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	75-09-2	12/24/19
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	106-46-7	12/24/19
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	100-42-5	12/24/19
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	127-18-4	12/24/19
Toluene	0.610 I	ug/L	1.00	0.500	1.00	10422458	EPA8260	108-88-3	12/24/19
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	79-01-6	12/24/19
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-69-4	12/24/19
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10422458	EPA8260	108-05-4	12/24/19
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-01-4	12/24/19
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	1330-20-7	12/24/19
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10422458	EPA8260	156-59-2	12/24/19
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	10061-01-5	12/24/19
m-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	541-73-1	12/24/19
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	95-50-1	12/24/19
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	156-60-5	12/24/19
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	10061-02-6	12/24/19
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	110-57-6	12/24/19
Surr:1,2-Dichloroethane-d4 (50-150%)	99.77%		1.00	0.0100	0.0100	10422458	EPA8260		12/24/19
Surr:Bromofluorobenzene (50-150%)	97.23%		1.00	1.00	1.00	10422458	EPA8260	460-00-4	12/24/19
Surr:Toluene-d8 (50-150%)	94.17%		1.00	0.0100	0.0100	10422458	EPA8260		12/24/19
Ammonia (as N)	1.36 J	mg/L	1.00	0.0100	0.0200	10422503	EPA350.1	7664-41-7	12/26/19
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10422516	EPA8011	096-18-4	12/24/19
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10422516	EPA8011	106-93-4	12/24/19
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10422516	EPA8011	96-12-8	12/24/19

Lab #: 422625GW2 Sampled: 12/18/19 10:15 AM Desc: MW-2/297

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
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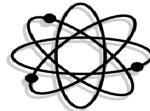
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Atkins-Tampa
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PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 18, 2019
Dec 27, 2019; Invoice: 422625

Lab #: 422625GW2 Sampled: 12/18/19 10:15 AM Desc: MW-2/297

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Nitrate(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10422095	EPA353.2	14797-55-8	12/19/19 05:30 PM
Chloride	34.1	mg/L	1.00	4.00	8.00	10422202	SM4500-CI E	16887-00-6	12/21/19
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10422213	EPA6020	7440-36-0	12/19/19
Arsenic	0.00190 I	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-38-2	12/19/19
Barium	0.0273	mg/L	1.00	0.00200	0.00400	10422213	EPA6020	7440-39-3	12/19/19
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10422213	EPA6020	7440-41-7	12/19/19
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-43-9	12/19/19
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-47-3	12/19/19
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-48-4	12/19/19
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-50-8	12/19/19
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7439-92-1	12/19/19
Nickel	0.00270	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-02-0	12/19/19
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10422213	EPA6020	7782-49-2	12/19/19
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10422213	EPA6020	7440-22-4	12/19/19
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-28-0	12/19/19
Vanadium	0.00290	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-62-2	12/19/19
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10422213	EPA6020	7440-66-6	12/19/19
Field Ground Water Elevation	80.7	ft	1.00	-10.0	-10.0	10422218	FT1000		12/19/19
Field pH (units)	6.89	pH	1.00	0.0100	0.0200	10422219	FT1100	C006	12/19/19
Field Conductivity	754	umhos/cm	1.00	0.0100	0.0100	10422220	FT1200		12/19/19
Field Temp. (C)	21.9	oC	1.00	0.0100	0.0100	10422221	FT1400		12/19/19
Field DO	1.02	mg/L	1.00	0.0100	0.0100	10422222	FT1500		12/19/19
Field Turbidity	8.51	NTU	1.00	0.0100	0.0100	10422223	FT1600		12/19/19
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10422389	EPA7470	7439-97-6	12/24/19
Iron	7.02	mg/L	1.00	0.0100	0.0200	10422410	EPA6010	7439-89-6	12/24/19
Sodium	27.0	mg/L	1.00	0.500	1.00	10422410	EPA6010	7440-23-5	12/24/19
TDS	430	mg/L	1.00	2.50	5.00	10422453	SM2540 C	10-33-3	12/20/19
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	630-20-6	12/24/19
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	71-55-6	12/24/19



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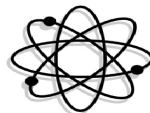
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PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 18, 2019
Dec 27, 2019; Invoice: 422625

Lab #: 422625GW2 Sampled: 12/18/19 10:15 AM Desc: MW-2/297

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	10422458	EPA8260	79-34-5	12/24/19
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	79-00-5	12/24/19
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-34-3	12/24/19
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-35-4	12/24/19
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10422458	EPA8260	107-06-2	12/24/19
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10422458	EPA8260	78-87-5	12/24/19
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	78-93-3	12/24/19
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	591-78-6	12/24/19
2-chloroethylvinylether	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	110-75-8	12/24/19
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10422458	EPA8260	67-64-1	12/24/19
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10422458	EPA8260	107-13-1	12/24/19
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	71-43-2	12/24/19
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10422458	EPA8260	074-97-5	12/24/19
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10422458	EPA8260	75-27-4	12/24/19
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-25-2	12/24/19
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	74-83-9	12/24/19
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	75-15-0	12/24/19
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	56-23-5	12/24/19
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	108-90-7	12/24/19
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-00-3	12/24/19
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	67-66-3	12/24/19
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	74-87-3	12/24/19
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10422458	EPA8260	124-48-1	12/24/19
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	074-95-3	12/24/19
Dichlorodifluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-71-8	12/24/19
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	100-41-4	12/24/19
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	074-88-4	12/24/19
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	108-10-1	12/24/19
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	75-09-2	12/24/19



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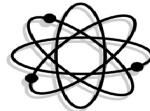
PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 18, 2019
Dec 27, 2019; Invoice: 422625

Lab #: 422625GW2 Sampled: 12/18/19 10:15 AM Desc: MW-2/297

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	106-46-7	12/24/19
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	100-42-5	12/24/19
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	127-18-4	12/24/19
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	108-88-3	12/24/19
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	79-01-6	12/24/19
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-69-4	12/24/19
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10422458	EPA8260	108-05-4	12/24/19
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-01-4	12/24/19
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	1330-20-7	12/24/19
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10422458	EPA8260	156-59-2	12/24/19
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	10061-01-5	12/24/19
m-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	541-73-1	12/24/19
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	95-50-1	12/24/19
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	156-60-5	12/24/19
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	10061-02-6	12/24/19
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	110-57-6	12/24/19
Surr:1,2-Dichloroethane-d4 (50-150%)	98.47%		1.00	0.0100	0.0100	10422458	EPA8260		12/24/19
Surr:Bromofluorobenzene (50-150%)	98.47%		1.00	1.00	1.00	10422458	EPA8260	460-00-4	12/24/19
Surr:Toluene-d8 (50-150%)	97.53%		1.00	0.0100	0.0100	10422458	EPA8260		12/24/19
Ammonia (as N)	0.0734	mg/L	1.00	0.0100	0.0200	10422503	EPA350.1	7664-41-7	12/26/19
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10422516	EPA8011	096-18-4	12/24/19
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10422516	EPA8011	106-93-4	12/24/19
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10422516	EPA8011	96-12-8	12/24/19

Lab #: 422625GW3 Sampled: 12/18/19 11:45 AM Desc: MW-1/296

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Nitrate(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10422095	EPA353.2	14797-55-8	12/19/19 05:30 PM
Chloride	18.0	mg/L	1.00	4.00	8.00	10422202	SM4500-CI E	16887-00-6	12/21/19
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10422213	EPA6020	7440-36-0	12/19/19



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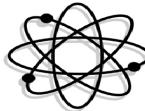
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Phone: 305-743-8598 E35834 (Keys Lab)

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

PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 18, 2019
Dec 27, 2019; Invoice: 422625

Lab #: 422625GW3 Sampled: 12/18/19 11:45 AM Desc: MW-1/296

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Arsenic	0.00630	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-38-2	12/19/19
Barium	0.0106	mg/L	1.00	0.00200	0.00400	10422213	EPA6020	7440-39-3	12/19/19
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10422213	EPA6020	7440-41-7	12/19/19
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-43-9	12/19/19
Chromium	0.0378	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-47-3	12/19/19
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-48-4	12/19/19
Copper	0.00160 I	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-50-8	12/19/19
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7439-92-1	12/19/19
Nickel	0.00330	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-02-0	12/19/19
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10422213	EPA6020	7782-49-2	12/19/19
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10422213	EPA6020	7440-22-4	12/19/19
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-28-0	12/19/19
Vanadium	0.0166	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-62-2	12/19/19
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10422213	EPA6020	7440-66-6	12/19/19
Field Ground Water Elevation	82.5	ft	1.00	-10.0	-10.0	10422218	FT1000		12/19/19
Field pH (units)	4.73	pH	1.00	0.0100	0.0200	10422219	FT1100	C006	12/19/19
Field Conductivity	168	umhos/cm	1.00	0.0100	0.0100	10422220	FT1200		12/19/19
Field Temp. (C)	21.6	oC	1.00	0.0100	0.0100	10422221	FT1400		12/19/19
Field DO	1.09	mg/L	1.00	0.0100	0.0100	10422222	FT1500		12/19/19
Field Turbidity	19.5	NTU	1.00	0.0100	0.0100	10422223	FT1600		12/19/19
Mercury	0.00000200 U	mg/L	1.00	0.0000200	0.0000400	10422389	EPA7470	7439-97-6	12/24/19
Iron	7.29	mg/L	1.00	0.0100	0.0200	10422410	EPA6010	7439-89-6	12/24/19
Sodium	13.3	mg/L	1.00	0.500	1.00	10422410	EPA6010	7440-23-5	12/24/19
TDS	250	mg/L	1.00	2.50	5.00	10422453	SM2540 C	10-33-3	12/20/19
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	630-20-6	12/24/19
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	71-55-6	12/24/19
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10422458	EPA8260	79-34-5	12/24/19
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	79-00-5	12/24/19
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-34-3	12/24/19



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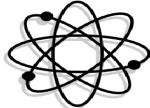
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Atkins-Tampa
 4030 W. Boy Scout Blvd, Ste 700
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PO #: 40612
 Client Project #: HARDEE COUNTY LF
 Date Sampled: Dec 18, 2019
 Dec 27, 2019; Invoice: 422625

Lab #: 422625GW3 **Sampled:** 12/18/19 11:45 AM **Desc:** MW-1/296

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-35-4	12/24/19
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10422458	EPA8260	107-06-2	12/24/19
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10422458	EPA8260	78-87-5	12/24/19
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	78-93-3	12/24/19
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	591-78-6	12/24/19
2-chloroethylvinylether	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	110-75-8	12/24/19
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10422458	EPA8260	67-64-1	12/24/19
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10422458	EPA8260	107-13-1	12/24/19
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	71-43-2	12/24/19
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10422458	EPA8260	074-97-5	12/24/19
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10422458	EPA8260	75-27-4	12/24/19
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-25-2	12/24/19
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	74-83-9	12/24/19
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	75-15-0	12/24/19
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	56-23-5	12/24/19
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	108-90-7	12/24/19
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-00-3	12/24/19
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	67-66-3	12/24/19
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	74-87-3	12/24/19
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10422458	EPA8260	124-48-1	12/24/19
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	074-95-3	12/24/19
Dichlorodifluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-71-8	12/24/19
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	100-41-4	12/24/19
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	074-88-4	12/24/19
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	108-10-1	12/24/19
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	75-09-2	12/24/19
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	106-46-7	12/24/19
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	100-42-5	12/24/19
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	127-18-4	12/24/19



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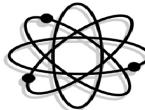
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PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 18, 2019
Dec 27, 2019; Invoice: 422625

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-43-9	12/19/19
Chromium	0.00130 I	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-47-3	12/19/19
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-48-4	12/19/19
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-50-8	12/19/19
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7439-92-1	12/19/19
Nickel	0.00680	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-02-0	12/19/19
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10422213	EPA6020	7782-49-2	12/19/19
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10422213	EPA6020	7440-22-4	12/19/19
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-28-0	12/19/19
Vanadium	0.00210	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-62-2	12/19/19
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10422213	EPA6020	7440-66-6	12/19/19
Field Ground Water Elevation	83.3	ft	1.00	-10.0	-10.0	10422218	FT1000		12/19/19
Field pH (units)	6.39	pH	1.00	0.0100	0.0200	10422219	FT1100	C006	12/19/19
Field Conductivity	604	umhos/cm	1.00	0.0100	0.0100	10422220	FT1200		12/19/19
Field Temp. (C)	21.3	oC	1.00	0.0100	0.0100	10422221	FT1400		12/19/19
Field DO	0.940	mg/L	1.00	0.0100	0.0100	10422222	FT1500		12/19/19
Field Turbidity	2.27	NTU	1.00	0.0100	0.0100	10422223	FT1600		12/19/19
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10422389	EPA7470	7439-97-6	12/24/19
Iron	1.08	mg/L	1.00	0.0100	0.0200	10422410	EPA6010	7439-89-6	12/24/19
Sodium	14.8	mg/L	1.00	0.500	1.00	10422410	EPA6010	7440-23-5	12/24/19
TDS	372	mg/L	1.00	2.50	5.00	10422453	SM2540 C	10-33-3	12/20/19
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	630-20-6	12/24/19
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	71-55-6	12/24/19
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10422458	EPA8260	79-34-5	12/24/19
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	79-00-5	12/24/19
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-34-3	12/24/19
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-35-4	12/24/19
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10422458	EPA8260	107-06-2	12/24/19
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10422458	EPA8260	78-87-5	12/24/19



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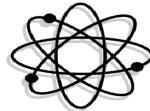
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Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	78-93-3	12/24/19
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	591-78-6	12/24/19
2-chloroethylvinylether	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	110-75-8	12/24/19
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10422458	EPA8260	67-64-1	12/24/19
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10422458	EPA8260	107-13-1	12/24/19
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	71-43-2	12/24/19
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10422458	EPA8260	074-97-5	12/24/19
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10422458	EPA8260	75-27-4	12/24/19
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-25-2	12/24/19
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	74-83-9	12/24/19
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	75-15-0	12/24/19
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	56-23-5	12/24/19
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	108-90-7	12/24/19
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-00-3	12/24/19
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	67-66-3	12/24/19
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	74-87-3	12/24/19
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10422458	EPA8260	124-48-1	12/24/19
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	074-95-3	12/24/19
Dichlorodifluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-71-8	12/24/19
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	100-41-4	12/24/19
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	074-88-4	12/24/19
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	108-10-1	12/24/19
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	75-09-2	12/24/19
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	106-46-7	12/24/19
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	100-42-5	12/24/19
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	127-18-4	12/24/19
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	108-88-3	12/24/19
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	79-01-6	12/24/19
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-69-4	12/24/19



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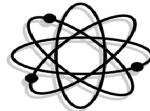
PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 18, 2019
Dec 27, 2019; Invoice: 422625

Lab #: 422625GW4 **Sampled:** 12/18/19 12:50 PM **Desc:** MwW-14/29064

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10422458	EPA8260	108-05-4	12/24/19
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-01-4	12/24/19
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	1330-20-7	12/24/19
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10422458	EPA8260	156-59-2	12/24/19
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	10061-01-5	12/24/19
m-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	541-73-1	12/24/19
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	95-50-1	12/24/19
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	156-60-5	12/24/19
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	10061-02-6	12/24/19
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	110-57-6	12/24/19
Surr:1,2-Dichloroethane-d4 (50-150%)	97.30%		1.00	0.0100	0.0100	10422458	EPA8260		12/24/19
Surr:Bromofluorobenzene (50-150%)	98.47%		1.00	1.00	1.00	10422458	EPA8260	460-00-4	12/24/19
Surr:Toluene-d8 (50-150%)	95.93%		1.00	0.0100	0.0100	10422458	EPA8260		12/24/19
Ammonia (as N)	1.18	mg/L	1.00	0.0100	0.0200	10422503	EPA350.1	7664-41-7	12/26/19
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10422516	EPA8011	096-18-4	12/24/19
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10422516	EPA8011	106-93-4	12/24/19
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10422516	EPA8011	96-12-8	12/24/19

Lab #: 422625GW5 **Sampled:** 12/18/19 01:45 PM **Desc:** MW-13/29063

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Nitrate(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10422095	EPA353.2	14797-55-8	12/19/19 05:30 PM
Chloride	21.5	mg/L	1.00	4.00	8.00	10422202	SM4500-CI E	16887-00-6	12/21/19
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10422213	EPA6020	7440-36-0	12/19/19
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-38-2	12/19/19
Barium	0.00490	mg/L	1.00	0.00200	0.00400	10422213	EPA6020	7440-39-3	12/19/19
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10422213	EPA6020	7440-41-7	12/19/19
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-43-9	12/19/19
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-47-3	12/19/19
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-48-4	12/19/19



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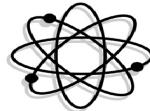
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PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 18, 2019
Dec 27, 2019; Invoice: 422625

Lab #: 422625GW5 Sampled: 12/18/19 01:45 PM Desc: MW-13/29063

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-50-8	12/19/19
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7439-92-1	12/19/19
Nickel	0.00130 I	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-02-0	12/19/19
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10422213	EPA6020	7782-49-2	12/19/19
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10422213	EPA6020	7440-22-4	12/19/19
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-28-0	12/19/19
Vanadium	0.00170 I	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-62-2	12/19/19
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10422213	EPA6020	7440-66-6	12/19/19
Field Ground Water Elevation	83.1	ft	1.00	-10.0	-10.0	10422218	FT1000		12/19/19
Field pH (units)	5.61	pH	1.00	0.0100	0.0200	10422219	FT1100	C006	12/19/19
Field Conductivity	209	umhos/cm	1.00	0.0100	0.0100	10422220	FT1200		12/19/19
Field Temp. (C)	21.6	oC	1.00	0.0100	0.0100	10422221	FT1400		12/19/19
Field DO	0.370	mg/L	1.00	0.0100	0.0100	10422222	FT1500		12/19/19
Field Turbidity	7.23	NTU	1.00	0.0100	0.0100	10422223	FT1600		12/19/19
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10422389	EPA7470	7439-97-6	12/24/19
Iron	1.62	mg/L	1.00	0.0100	0.0200	10422410	EPA6010	7439-89-6	12/24/19
Sodium	9.73	mg/L	1.00	0.500	1.00	10422410	EPA6010	7440-23-5	12/24/19
TDS	134	mg/L	1.00	2.50	5.00	10422453	SM2540 C	10-33-3	12/20/19
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	630-20-6	12/24/19
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	71-55-6	12/24/19
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10422458	EPA8260	79-34-5	12/24/19
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	79-00-5	12/24/19
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-34-3	12/24/19
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-35-4	12/24/19
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10422458	EPA8260	107-06-2	12/24/19
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10422458	EPA8260	78-87-5	12/24/19
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	78-93-3	12/24/19
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	591-78-6	12/24/19
2-chloroethylvinylether	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	110-75-8	12/24/19



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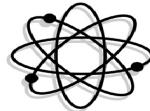
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PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 18, 2019
Dec 27, 2019; Invoice: 422625

Lab #: 422625GW5 Sampled: 12/18/19 01:45 PM Desc: MW-13/29063

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10422458	EPA8260	67-64-1	12/24/19
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10422458	EPA8260	107-13-1	12/24/19
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	71-43-2	12/24/19
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10422458	EPA8260	074-97-5	12/24/19
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10422458	EPA8260	75-27-4	12/24/19
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-25-2	12/24/19
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	74-83-9	12/24/19
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	75-15-0	12/24/19
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	56-23-5	12/24/19
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	108-90-7	12/24/19
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-00-3	12/24/19
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	67-66-3	12/24/19
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	74-87-3	12/24/19
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10422458	EPA8260	124-48-1	12/24/19
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	074-95-3	12/24/19
Dichlorodifluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-71-8	12/24/19
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	100-41-4	12/24/19
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	074-88-4	12/24/19
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	108-10-1	12/24/19
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	75-09-2	12/24/19
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	106-46-7	12/24/19
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	100-42-5	12/24/19
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	127-18-4	12/24/19
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	108-88-3	12/24/19
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	79-01-6	12/24/19
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-69-4	12/24/19
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10422458	EPA8260	108-05-4	12/24/19
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-01-4	12/24/19
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	1330-20-7	12/24/19



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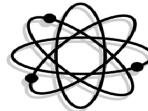
PO #: 40612
Client Project #: HARDEE COUNTY LF
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Lab #: 422625GW5 Sampled: 12/18/19 01:45 PM Desc: MW-13/29063

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10422458	EPA8260	156-59-2	12/24/19
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	10061-01-5	12/24/19
m-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	541-73-1	12/24/19
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	95-50-1	12/24/19
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	156-60-5	12/24/19
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	10061-02-6	12/24/19
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	110-57-6	12/24/19
Surr:1,2-Dichloroethane-d4 (50-150%)	97.13%		1.00	0.0100	0.0100	10422458	EPA8260		12/24/19
Surr:Bromofluorobenzene (50-150%)	97.47%		1.00	1.00	1.00	10422458	EPA8260	460-00-4	12/24/19
Surr:Toluene-d8 (50-150%)	93.70%		1.00	0.0100	0.0100	10422458	EPA8260		12/24/19
Ammonia (as N)	0.191	mg/L	1.00	0.0100	0.0200	10422503	EPA350.1	7664-41-7	12/26/19
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10422516	EPA8011	096-18-4	12/24/19
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10422516	EPA8011	106-93-4	12/24/19
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10422516	EPA8011	96-12-8	12/24/19

Lab #: 422625GW6 Sampled: 12/18/19 02:50 PM Desc: MW-12R/22931

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Nitrate(as N)	1.02	mg/L	1.00	0.0200	0.0400	10422095	EPA353.2	14797-55-8	12/19/19 05:30 PM
Chloride	56.8	mg/L	1.00	4.00	8.00	10422202	SM4500-CI E	16887-00-6	12/21/19
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10422213	EPA6020	7440-36-0	12/19/19
Arsenic	0.00670	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-38-2	12/19/19
Barium	0.00940	mg/L	1.00	0.00200	0.00400	10422213	EPA6020	7440-39-3	12/19/19
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10422213	EPA6020	7440-41-7	12/19/19
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-43-9	12/19/19
Chromium	0.00120 I	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-47-3	12/19/19
Cobalt	0.00120 I	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-48-4	12/19/19
Copper	0.00280	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-50-8	12/19/19
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7439-92-1	12/19/19
Nickel	0.0142	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-02-0	12/19/19



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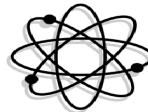
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PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 18, 2019
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Lab #: 422625GW6 Sampled: 12/18/19 02:50 PM Desc: MW-12R/22931

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10422213	EPA6020	7782-49-2	12/19/19
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10422213	EPA6020	7440-22-4	12/19/19
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-28-0	12/19/19
Vanadium	0.00920	mg/L	1.00	0.00100	0.00200	10422213	EPA6020	7440-62-2	12/19/19
Zinc	0.0283	mg/L	1.00	0.0100	0.0200	10422213	EPA6020	7440-66-6	12/19/19
Field Ground Water Elevation	79.4	ft	1.00	-10.0	-10.0	10422218	FT1000		12/19/19
Field pH (units)	6.85	pH	1.00	0.0100	0.0200	10422219	FT1100	C006	12/19/19
Field Conductivity	976	umhos/cm	1.00	0.0100	0.0100	10422220	FT1200		12/19/19
Field Temp. (C)	22.6	oC	1.00	0.0100	0.0100	10422221	FT1400		12/19/19
Field DO	1.42	mg/L	1.00	0.0100	0.0100	10422222	FT1500		12/19/19
Field Turbidity	1.34	NTU	1.00	0.0100	0.0100	10422223	FT1600		12/19/19
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10422389	EPA7470	7439-97-6	12/24/19
Iron	0.110	mg/L	1.00	0.0100	0.0200	10422410	EPA6010	7439-89-6	12/24/19
Sodium	51.4	mg/L	1.00	0.500	1.00	10422410	EPA6010	7440-23-5	12/24/19
TDS	582	mg/L	1.00	2.50	5.00	10422453	SM2540 C	10-33-3	12/20/19
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	630-20-6	12/24/19
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	71-55-6	12/24/19
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10422458	EPA8260	79-34-5	12/24/19
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	79-00-5	12/24/19
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-34-3	12/24/19
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-35-4	12/24/19
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10422458	EPA8260	107-06-2	12/24/19
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10422458	EPA8260	78-87-5	12/24/19
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	78-93-3	12/24/19
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	591-78-6	12/24/19
2-chloroethylvinylether	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	110-75-8	12/24/19
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10422458	EPA8260	67-64-1	12/24/19
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10422458	EPA8260	107-13-1	12/24/19
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	71-43-2	12/24/19



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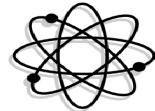
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Phone: 305-743-8598 E35834 (Keys Lab)

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

PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 18, 2019
Dec 27, 2019; Invoice: 422625

Lab #: 422625GW6 Sampled: 12/18/19 02:50 PM Desc: MW-12R/22931

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10422458	EPA8260	074-97-5	12/24/19
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10422458	EPA8260	75-27-4	12/24/19
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-25-2	12/24/19
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	74-83-9	12/24/19
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	75-15-0	12/24/19
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	56-23-5	12/24/19
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	108-90-7	12/24/19
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-00-3	12/24/19
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	67-66-3	12/24/19
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	74-87-3	12/24/19
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10422458	EPA8260	124-48-1	12/24/19
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	074-95-3	12/24/19
Dichlorodifluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-71-8	12/24/19
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	100-41-4	12/24/19
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	074-88-4	12/24/19
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	108-10-1	12/24/19
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	75-09-2	12/24/19
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	106-46-7	12/24/19
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	100-42-5	12/24/19
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	127-18-4	12/24/19
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	108-88-3	12/24/19
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	79-01-6	12/24/19
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-69-4	12/24/19
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10422458	EPA8260	108-05-4	12/24/19
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-01-4	12/24/19
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	1330-20-7	12/24/19
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10422458	EPA8260	156-59-2	12/24/19
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	10061-01-5	12/24/19
m-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	541-73-1	12/24/19



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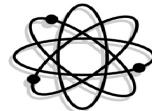
PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 18, 2019
Dec 27, 2019; Invoice: 422625

Lab #: 422625GW6 **Sampled:** 12/18/19 02:50 PM **Desc:** MW-12R/22931

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	95-50-1	12/24/19
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	156-60-5	12/24/19
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	10061-02-6	12/24/19
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	110-57-6	12/24/19
Surr:1,2-Dichloroethane-d4 (50-150%)	97.77%			1.00	0.0100	10422458	EPA8260		12/24/19
Surr:Bromofluorobenzene (50-150%)	97.73%			1.00	1.00	10422458	EPA8260	460-00-4	12/24/19
Surr:Toluene-d8 (50-150%)	94.37%			1.00	0.0100	10422458	EPA8260		12/24/19
Ammonia (as N)	0.192	mg/L	1.00	0.0100	0.0200	10422503	EPA350.1	7664-41-7	12/26/19
1,2,3-Trichloroproppane	0.0200 U	ug/L	1.00	0.0200	0.0400	10422516	EPA8011	096-18-4	12/24/19
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10422516	EPA8011	106-93-4	12/24/19
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10422516	EPA8011	96-12-8	12/24/19

Lab #: 422625GW7 **Sampled:** 12/18/19 09:20 AM **Desc:** Trip Blank 1

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	10422458	EPA8260	630-20-6	12/24/19
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	71-55-6	12/24/19
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10422458	EPA8260	79-34-5	12/24/19
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	79-00-5	12/24/19
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-34-3	12/24/19
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-35-4	12/24/19
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10422458	EPA8260	107-06-2	12/24/19
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10422458	EPA8260	78-87-5	12/24/19
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	78-93-3	12/24/19
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	591-78-6	12/24/19
2-chloroethylvinylether	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	110-75-8	12/24/19
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10422458	EPA8260	67-64-1	12/24/19
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10422458	EPA8260	107-13-1	12/24/19
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	71-43-2	12/24/19
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10422458	EPA8260	074-97-5	12/24/19



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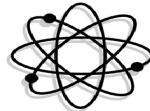
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Atkins-Tampa
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PO #: 40612
 Client Project #: HARDEE COUNTY LF
 Date Sampled: Dec 18, 2019
 Dec 27, 2019; Invoice: 422625

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10422458	EPA8260	75-27-4	12/24/19
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-25-2	12/24/19
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	74-83-9	12/24/19
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	75-15-0	12/24/19
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	56-23-5	12/24/19
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	108-90-7	12/24/19
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-00-3	12/24/19
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	67-66-3	12/24/19
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	74-87-3	12/24/19
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10422458	EPA8260	124-48-1	12/24/19
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	074-95-3	12/24/19
Dichlorodifluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-71-8	12/24/19
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	100-41-4	12/24/19
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	074-88-4	12/24/19
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	108-10-1	12/24/19
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	75-09-2	12/24/19
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	106-46-7	12/24/19
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	100-42-5	12/24/19
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	127-18-4	12/24/19
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	108-88-3	12/24/19
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	79-01-6	12/24/19
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-69-4	12/24/19
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10422458	EPA8260	108-05-4	12/24/19
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-01-4	12/24/19
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	1330-20-7	12/24/19
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10422458	EPA8260	156-59-2	12/24/19
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	10061-01-5	12/24/19
m-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	541-73-1	12/24/19
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	95-50-1	12/24/19



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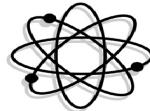
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PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 18, 2019
Dec 27, 2019; Invoice: 422625

Lab #: 422625GW7 Sampled: 12/18/19 09:20 AM Desc: Trip Blank 1

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	156-60-5	12/24/19
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	10061-02-6	12/24/19
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	110-57-6	12/24/19
Surr:1,2-Dichloroethane-d4 (50-150%)	96.70%		1.00	0.0100	0.0100	10422458	EPA8260		12/24/19
Surr:Bromofluorobenzene (50-150%)	97.17%		1.00	1.00	1.00	10422458	EPA8260	460-00-4	12/24/19
Surr:Toluene-d8 (50-150%)	95.27%		1.00	0.0100	0.0100	10422458	EPA8260		12/24/19



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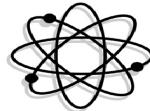
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Quality Report

Quality Control Batch: 10422094		Analyst: PCW						
Blank		Result	Units					
Nitrate(as N)		0.0200U	mg/L					
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim		
Nitrate(as N)		1.01	mg/L	1.00	101.40	90.00-110.00		
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number
Nitrate(as N)		6.38	mg/L	4.00	98.50	90.00-110.00	2.44	422453WW1
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD
Nitrate(as N)		6.32	mg/L	4.00	97.00	90.00-110.00	2.44	0.94
Quality Control Batch: 10422095		Analyst: PCW						
Blank		Result	Units					
Nitrate(as N)		0.0200U	mg/L					
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim		
Nitrate(as N)		1.02	mg/L	1.00	101.80	90.00-110.00		
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number
Nitrate(as N)		3.95	mg/L	4.00	98.75	90.00-110.00	0.0200U	422625GW2
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD
Nitrate(as N)		3.97	mg/L	4.00	99.25	90.00-110.00	0.0200U	0.51
Quality Control Batch: 10422202		Analyst: VLB						
Blank		Result	Units					
Chloride		4.00U	mg/L					



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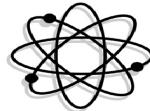
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Quality Control Batch: 10422202		Analyst: VLB						
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim		
Chloride		156	mg/L	150	104.00	80.00-120.00		
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number
Chloride		103	mg/L	100	98.01	80.00-120.00	4.99	422437GW4
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD
Chloride		103	mg/L	100	98.01	80.00-120.00	4.99	0.00
Quality Control Batch: 10422213		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		0.00100U	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		0.0892	mg/L	0.100	89.20	80.00-120.00		
Arsenic		0.0940	mg/L	0.100	94.00	80.00-120.00		



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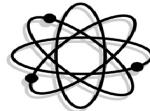
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Atkins-Tampa
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PO #: 40612
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Date Sampled: Dec 18, 2019
Dec 27, 2019; Invoice: 422625

Quality Control Batch: 10422213		Analyst: EVB					
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim		
Barium	0.107	mg/L	0.100	106.80	80.00-120.00		
Beryllium	0.109	mg/L	0.100	108.50	80.00-120.00		
Cadmium	0.0937	mg/L	0.100	93.70	80.00-120.00		
Chromium	0.102	mg/L	0.100	102.30	80.00-120.00		
Cobalt	0.0966	mg/L	0.100	96.60	80.00-120.00		
Copper	0.0999	mg/L	0.100	99.90	80.00-120.00		
Lead	0.103	mg/L	0.100	103.00	80.00-120.00		
Nickel	0.0962	mg/L	0.100	96.20	80.00-120.00		
Selenium	0.0962	mg/L	0.100	96.20	80.00-120.00		
Silver	0.101	mg/L	0.100	101.20	80.00-120.00		
Thallium	0.0984	mg/L	0.100	98.40	80.00-120.00		
Vanadium	0.0997	mg/L	0.100	99.70	80.00-120.00		
Zinc	0.112	mg/L	0.100	112.40	80.00-120.00		
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number
Antimony	0.0952	mg/L	0.100	95.20	75.00-125.00	0.00200U	422488DW1
Arsenic	0.117	mg/L	0.100	116.50	75.00-125.00	0.00100U	422488DW1
Barium	0.115	mg/L	0.100	88.40	75.00-125.00	0.0269	422488DW1
Beryllium	0.0889	mg/L	0.100	88.90	75.00-125.00	0.000500U	422488DW1
Cadmium	0.101	mg/L	0.100	101.00	75.00-125.00	0.00100U	422488DW1
Chromium	0.104	mg/L	0.100	101.70	75.00-125.00	0.00240	422488DW1
Cobalt	0.103	mg/L	0.100	102.50	75.00-125.00	0.00100U	422488DW1
Copper	0.0949	mg/L	0.100	93.60	75.00-125.00	0.00130	422488DW1
Lead	0.0931	mg/L	0.100	93.10	75.00-125.00	0.00100U	422488DW1
Nickel	0.0984	mg/L	0.100	98.40	75.00-125.00	0.00100U	422488DW1
Selenium	0.114	mg/L	0.100	114.40	75.00-125.00	0.00200U	422488DW1
Silver	0.0806	mg/L	0.100	80.00	75.00-125.00	0.000600	422488DW1
Thallium	0.0914	mg/L	0.100	91.40	75.00-125.00	0.00100U	422488DW1
Vanadium	0.113	mg/L	0.100	112.00	75.00-125.00	0.00120	422488DW1



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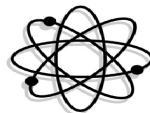
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Quality Control Batch: 10422213		Analyst: EVB						
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number	
Zinc	0.118	mg/L	0.100	115.20	75.00-125.00	0.00290	422488DW1	
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Antimony	0.0963	mg/L	0.100	96.30	75.00-125.00	0.00200U	1.15	40.00
Arsenic	0.113	mg/L	0.100	113.10	75.00-125.00	0.00100U	2.96	20.00
Barium	0.115	mg/L	0.100	88.20	75.00-125.00	0.0269	0.17	20.00
Beryllium	0.0940	mg/L	0.100	94.00	75.00-125.00	0.000500U	5.58	40.00
Cadmium	0.102	mg/L	0.100	101.70	75.00-125.00	0.00100U	0.69	20.00
Chromium	0.101	mg/L	0.100	98.60	75.00-125.00	0.00240	3.02	20.00
Cobalt	0.105	mg/L	0.100	105.30	75.00-125.00	0.00100U	2.69	40.00
Copper	0.0902	mg/L	0.100	88.90	75.00-125.00	0.00130	5.08	20.00
Lead	0.0960	mg/L	0.100	96.00	75.00-125.00	0.00100U	3.07	20.00
Nickel	0.102	mg/L	0.100	101.60	75.00-125.00	0.00100U	3.20	20.00
Selenium	0.125	mg/L	0.100	125.30	75.00-125.00	0.00200U	9.09	20.00
Silver	0.0826	mg/L	0.100	82.00	75.00-125.00	0.000600	2.45	20.00
Thallium	0.0940	mg/L	0.100	94.00	75.00-125.00	0.00100U	2.80	40.00
Vanadium	0.116	mg/L	0.100	114.80	75.00-125.00	0.00120	2.44	20.00
Zinc	0.125	mg/L	0.100	122.30	75.00-125.00	0.00290	5.84	20.00

Quality Control Batch: 10422389		Analyst: EVB						
Blank	Result	Units						
Mercury	0.0000200U	mg/L						



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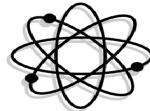
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Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Mercury	0.000995	mg/L	0.00100	99.46	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number	
Mercury	0.00296	mg/L	0.00300	99.78	80.00-120.00	-0.0000345	422651WW1	
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Mercury	0.00295	mg/L	0.00300	99.58	80.00-120.00	-0.0000345	0.20	20.00
Quality Control Batch: 10422410	Analyst:	EVB						
Blank	Result	Units						
Iron	0.0100U	mg/L						
Sodium	0.500U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Iron	11.2	mg/L	10.0	111.59	80.00-120.00			
Sodium	9.99	mg/L	10.0	99.86	80.00-120.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number	
Iron	14.8	mg/L	15.0	97.22	80.00-120.00	0.178	422723DW1	
Sodium	19.8	mg/L	15.0	101.07	75.00-125.00	4.64	422723DW1	
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Iron	14.6	mg/L	15.0	96.40	80.00-120.00	0.178	0.84	20.00
Sodium	18.0	mg/L	15.0	88.78	75.00-125.00	4.64	9.77	20.00
Quality Control Batch: 10422453	Analyst:	PLB						
Blank	Result	Units						
TDS	2.50U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			



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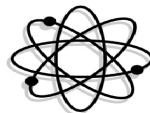
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Quality Control Batch: 10422453		Analyst: PLB			
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim
TDS	1510	mg/L	1500	100.40	80.00-120.00
Duplicate	Result	Units	Sample	RPD	RPD Lim
TDS	292	mg/L	292	0.00	20.00
		Lab Number			
		422625GW1			

Quality Control Batch: 10422458		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	
2-chloroethylvinylether	1.00U	ug/L	
Acetone	5.00U	ug/L	
Acrylonitrile	0.300U	ug/L	
Benzene	0.500U	ug/L	
Bromo(chloromethane	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	



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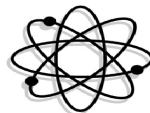
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Quality Control Batch: 10422458

Blank	Analyst: BNP	
	Result	Units
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
Dichlorodifluoromethane	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
m-dichlorobenzene	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	29.7	ug/L
Surr:Bromofluorobenzene	30.3	ug/L
Surr:Toluene-d8	29.2	ug/L



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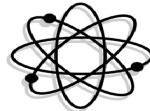
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Quality Control Batch: 10422458

Laboratory Control Sample

	Analyst: BNP				
	Result	Units	Spike	%REC	%REC Lim
1,1,1,2-Tetrachloroethane	46.9	ug/L	40.0	117.20	50.00-150.00
1,1,1-Trichloroethane	46.2	ug/L	40.0	115.58	50.00-150.00
1,1,2,2-Tetrachloroethane	41.6	ug/L	40.0	103.95	50.00-150.00
1,1,2-Trichloroethane	47.5	ug/L	40.0	118.82	50.00-150.00
1,1-Dichloroethane	42.9	ug/L	40.0	107.22	50.00-150.00
1,1-Dichloroethene	49.3	ug/L	40.0	123.28	50.00-150.00
1,2-dichloroethane	49.7	ug/L	40.0	124.15	50.00-150.00
1,2-dichloropropane	51.0	ug/L	40.0	127.55	50.00-150.00
2-Butanone (MEK)	49.6	ug/L	40.0	123.95	50.00-150.00
2-Hexanone	45.1	ug/L	40.0	112.80	50.00-150.00
Acetone	47.7	ug/L	40.0	119.17	50.00-150.00
Acrylonitrile	48.4	ug/L	40.0	120.92	50.00-150.00
Benzene	50.4	ug/L	40.0	125.97	50.00-150.00
Bromochloromethane	44.5	ug/L	40.0	111.20	50.00-150.00
Bromodichloromethane	48.9	ug/L	40.0	122.25	70.00-130.00
Bromoform	48.7	ug/L	40.0	121.65	50.00-130.00
Bromomethane	51.6	ug/L	40.0	128.95	50.00-150.00
Carbon Disulfide	49.6	ug/L	40.0	124.05	50.00-150.00
Carbon Tetrachloride	50.8	ug/L	40.0	127.08	50.00-150.00
Chlorobenzene	44.1	ug/L	40.0	110.22	50.00-150.00
Chloroethane	50.4	ug/L	40.0	125.97	50.00-150.00
Chloroform	49.0	ug/L	40.0	122.43	50.00-150.00
Chloromethane	47.2	ug/L	40.0	117.95	50.00-150.00
Dibromochloromethane	46.7	ug/L	40.0	116.62	50.00-150.00
Dibromomethane	47.6	ug/L	40.0	118.90	50.00-150.00
Dichlorodifluoromethane	45.0	ug/L	40.0	112.40	35.00-155.00
Ethylbenzene	47.1	ug/L	40.0	117.80	50.00-150.00
Methyl Iodide	50.0	ug/L	40.0	125.10	50.00-150.00
Methyl isobutyl ketone	46.6	ug/L	40.0	116.45	50.00-150.00



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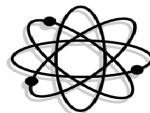
Quality Control Batch: 10422458

Laboratory Control Sample

	Analyst: BNP				
	Result	Units	Spike	%REC	%REC Lim
Methylene chloride	44.6	ug/L	40.0	111.58	50.00-150.00
Para-dichlorobenzene	40.5	ug/L	40.0	101.15	50.00-150.00
Styrene	42.6	ug/L	40.0	106.45	50.00-150.00
Tetrachloroethene	48.2	ug/L	40.0	120.45	50.00-150.00
Toluene	50.3	ug/L	40.0	125.73	50.00-150.00
Trichloroethene	46.4	ug/L	40.0	116.00	50.00-150.00
Trichlorofluoromethane	42.4	ug/L	40.0	105.97	50.00-150.00
Vinyl chloride	40.0	ug/L	40.0	100.03	50.00-150.00
Xylenes	140	ug/L	120	116.28	50.00-150.00
cis-1,2-dichloroethene	40.0	ug/L	40.0	99.90	50.00-150.00
cis-1,3-Dichloropropene	44.6	ug/L	40.0	111.40	50.00-150.00
m-dichlorobenzene	40.4	ug/L	40.0	101.08	50.00-150.00
o-dichlorobenzene	39.4	ug/L	40.0	98.40	50.00-150.00
trans-1,2-dichloroethene	47.9	ug/L	40.0	119.62	50.00-150.00
trans-1,3,-Dichloropropene	50.6	ug/L	40.0	126.50	50.00-150.00
Surr:1,2-Dichloroethane-d4	29.0	ug/L	30.0	96.53	50.00-150.00
Surr:Bromofluorobenzene	29.2	ug/L	30.0	97.27	50.00-150.00
Surr:Toluene-d8	31.8	ug/L	30.0	105.87	50.00-150.00

Laboratory Control Sample Duplicate

	Result	Units	Spike	%REC	%REC Lim	RPD	RPD Lim
1,1,1,2-Tetrachloroethane	43.6	ug/L	40.0	109.05	50.00-150.00	7.20	20.00
1,1,1-Trichloroethane	41.3	ug/L	40.0	103.15	50.00-150.00	11.36	20.00
1,1,2,2-Tetrachloroethane	40.6	ug/L	40.0	101.47	50.00-150.00	2.41	20.00
1,1,2-Trichloroethane	46.2	ug/L	40.0	115.58	50.00-150.00	2.77	20.00
1,1-Dichloroethane	57.8	ug/L	40.0	144.40	50.00-150.00	29.55	20.00
1,1-Dichloroethene	44.5	ug/L	40.0	111.27	50.00-150.00	10.23	20.00
1,2-dichloroethane	47.1	ug/L	40.0	117.83	50.00-150.00	5.23	20.00
1,2-dichloropropane	47.5	ug/L	40.0	118.82	50.00-150.00	7.08	20.00
2-Butanone (MEK)	49.8	ug/L	40.0	124.43	50.00-150.00	0.38	20.00



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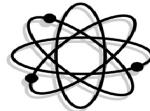
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Atkins-Tampa
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 18, 2019
Dec 27, 2019; Invoice: 422625

Quality Control Batch: 10422458	Analyst: BNP	Result	Units	Spike	%REC	%REC Lim	RPD	RPD Lim
Laboratory Control Sample Duplicate		2-Hexanone	ug/L	40.0	113.20	50.00-150.00	0.35	20.00
		Acetone	ug/L	40.0	113.40	50.00-150.00	4.97	20.00
		Acrylonitrile	ug/L	40.0	117.00	50.00-150.00	3.30	30.00
		Benzene	ug/L	40.0	114.28	50.00-150.00	9.74	20.00
		Bromochloromethane	ug/L	40.0	125.92	50.00-150.00	12.42	20.00
		Bromodichloromethane	ug/L	40.0	114.12	70.00-130.00	6.87	20.00
		Bromoform	ug/L	40.0	116.58	50.00-130.00	4.26	20.00
		Bromomethane	ug/L	40.0	127.35	50.00-150.00	1.25	20.00
		Carbon Disulfide	ug/L	40.0	122.08	50.00-150.00	1.60	20.00
		Carbon Tetrachloride	ug/L	40.0	112.68	50.00-150.00	12.01	20.00
		Chlorobenzene	ug/L	40.0	101.72	50.00-150.00	8.02	20.00
		Chloroethane	ug/L	40.0	130.15	50.00-150.00	3.26	20.00
		Chloroform	ug/L	40.0	111.95	50.00-150.00	8.94	20.00
		Chloromethane	ug/L	40.0	110.22	50.00-150.00	6.77	20.00
		Dibromochloromethane	ug/L	40.0	111.20	50.00-150.00	4.76	20.00
		Dibromomethane	ug/L	40.0	112.95	50.00-150.00	5.13	20.00
		Dichlorodifluoromethane	ug/L	40.0	122.95	35.00-155.00	8.97	20.00
		Ethylbenzene	ug/L	40.0	107.85	50.00-150.00	8.82	20.00
		Methyl Iodide	ug/L	40.0	159.10	50.00-150.00	23.93	20.00
		Methyl isobutyl ketone	ug/L	40.0	111.75	50.00-150.00	4.12	20.00
		Methylene chloride	ug/L	40.0	111.77	50.00-150.00	0.18	20.00
		Para-dichlorobenzene	ug/L	40.0	96.47	50.00-150.00	4.73	20.00
		Styrene	ug/L	40.0	97.90	50.00-150.00	8.37	20.00
		Tetrachloroethene	ug/L	40.0	109.90	50.00-150.00	9.16	20.00
		Toluene	ug/L	40.0	115.62	50.00-150.00	8.37	20.00
		Trichloroethene	ug/L	40.0	105.38	50.00-150.00	9.60	20.00
		Trichlorofluoromethane	ug/L	40.0	96.00	50.00-150.00	9.88	20.00
		Vinyl chloride	ug/L	40.0	93.70	50.00-150.00	6.53	20.00
		Xylenes	ug/L	120	105.79	50.00-150.00	9.44	20.00



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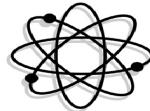
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Atkins-Tampa
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 18, 2019
Dec 27, 2019; Invoice: 422625

Quality Control Batch: 10422458		Analyst: BNP						
Laboratory Control Sample Duplicate		Result	Units	Spike	%REC	%REC Lim	RPD	RPD Lim
cis-1,2-dichloroethene		49.4	ug/L	40.0	123.60	50.00-150.00	21.21	20.00
cis-1,3-Dichloropropene		40.9	ug/L	40.0	102.17	50.00-150.00	8.64	20.00
m-dichlorobenzene		38.4	ug/L	40.0	96.00	50.00-150.00	5.15	20.00
o-dichlorobenzene		37.2	ug/L	40.0	93.00	50.00-150.00	5.64	20.00
trans-1,2-dichloroethene		42.9	ug/L	40.0	107.35	50.00-150.00	10.82	20.00
trans-1,3,-Dichloropropene		47.6	ug/L	40.0	119.03	50.00-150.00	6.09	20.00
Surr:1,2-Dichloroethane-d4		28.7	ug/L	30.0	95.73	50.00-150.00	0.83	20.00
Surr:Bromofluorobenzene		29.4	ug/L	30.0	98.07	50.00-150.00	0.82	20.00
Surr:Toluene-d8		31.6	ug/L	30.0	105.47	50.00-150.00	0.38	20.00
Quality Control Batch: 10422503		Analyst: PCW						
Blank		Result	Units					
Ammonia (as N)		0.0100U	mg/L					
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim		
Ammonia (as N)		2.12	mg/L	2.00	106.00	90.00-110.00		
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number
Ammonia (as N)		2.70	mg/L	1.60	83.75	90.00-110.00	1.36	422625GW1
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD
Ammonia (as N)		2.67	mg/L	1.60	81.88	90.00-110.00	1.36	1.12
								RPD Lim
								20.00
Quality Control Batch: 10422516		Analyst: DLJ						
Blank		Result	Units					
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					



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Quality Control Batch: 10422516

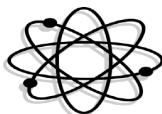
Analyst: DLJ

Laboratory Control Sample

	Result	Units	Spike	%REC	%REC Lim
1,2,3-Trichloropropane	0.226	ug/L	0.251	89.98	50.00-170.00
1,2-Dibromoethane (EDB)	0.248	ug/L	0.251	98.57	50.00-170.00
1,2-dibromo-3-chloropropane	0.247	ug/L	0.251	98.25	50.00-170.00

Laboratory Control Sample Duplicate

	Result	Units	Spike	%REC	%REC Lim	RPD	RPD Lim
1,2,3-Trichloropropane	0.253	ug/L	0.251	100.60	50.00-170.00	11.15	30.00
1,2-Dibromoethane (EDB)	0.203	ug/L	0.251	80.87	50.00-170.00	19.73	30.00
1,2-dibromo-3-chloropropane	0.239	ug/L	0.251	95.15	50.00-170.00	3.21	30.00



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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.

Additional Comments

"J" flag for GW1 Ammonia indicates this sample was used for QC and spike recovery was biased low. The LCS validates the run.

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
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

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Fax: 305-743-8598



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Client	Project Name	P.O. #
Address	Client Contact	FAX
Phone	FCL Project Manager	E-MAIL
Sampled By (PRINT):	Requested Due Date 10 Day Standard	Rush Charges May Apply
Sampler Signature	Pick-Up Fee \$ 35	Vehicle Surcharge \$
	MM DD YY	Sampling Fee \$

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

Bradley J. Bayne

Hardee Co. LF
Brad Bayne
June Flowers

40612

bradley.bayne@
atkinsglobal.com

ITEM NO.	SAMPLE ID	DATE	TIME	MATRIX	(LAB USE ONLY) LAB NO.	PRESERVATIVES					ANALYSES REQUEST	COMMENTS	Total # Containers
						NONE	H ₂ SO ₄	HNO ₃	HCl	Na ₂ S ₂ O ₃			
1	MW-4	12/18/19	9:20	GW	422625GW	3	1	1	2		"Landfillapl+1"		
2	MW-2	12/18/19	10:15	GW		2	3	1	1	2	see attached	8260	
3	MW-1	12/18/19	11:45	GW		3	3	1	1	2			
4	MW-14	12/18/19	12:50	GW		4	3	1	1	2			
5	MW-13	12/18/19	13:45	GW		5	3	1	1	2			
6	MW-12R	12/18/19	14:50	GW		6	3	1	1	2			
7	Trip Blank	12/18/19		W		7	1				V		
8													
9													
10													

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Bradley J. Bayne	12/18/19	11:55	✓ caught	12/18/19	11:55	✓ caught	12/19	14:15	✓ mm/12m	12/19	14:15

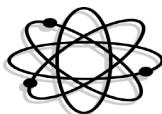
FINANCE CHARGES APPLIED TO PAST DUE INVOICES

• WHITE - Lab Copy - To Be Scanned

• YELLOW - Client Copy

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Rev 04-08



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PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 19, 2019
Jan 6, 2020; Invoice: 422627

Report Summary

Date Received: Dec 19, 2019

FCL Project Manager: June S. Flowers

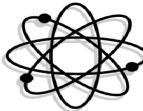
Laboratory #	Sample Description	Analysis	Chemist	Location	Sample Matrix
422627GW1	MW-11/21882	EPA350.1	PCW	Main Lab	Ground Water
		EPA353.2	PCW	Main Lab	
		EPA6010	EVB	Main Lab	
		EPA6020	EVB	Main Lab	
		EPA7470	EVB	Main Lab	
		EPA8011	DLJ	Main Lab	
		EPA8260	BNP	Main Lab	
		FT1000	RJC	Main Lab	
		FT1100	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	
422627GW2	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	

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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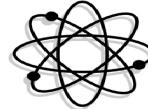
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PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 19, 2019
Jan 6, 2020; Invoice: 422627

Analysis Report

Lab #: 422627GW1 Sampled: 12/19/19 09:10 AM Desc: MW-11/21882

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Nitrate(as N)	0.674	mg/L	1.00	0.0200	0.0400	10422095	EPA353.2	14797-55-8	12/19/19 05:30 PM
Chloride	10.5	mg/L	1.00	4.00	8.00	10422200	SM4500-CI E	16887-00-6	12/21/19
Field Ground Water Elevation	78.6	ft	1.00	-10.0	-10.0	10422227	FT1000		12/19/19
Field pH (units)	5.82	pH	1.00	0.0100	0.0200	10422228	FT1100	C006	12/19/19
Field Conductivity	138	umhos/cm	1.00	0.0100	0.0100	10422229	FT1200		12/19/19
Field Temp. (C)	22.4	oC	1.00	0.0100	0.0100	10422230	FT1400		12/19/19
Field DO	0.580	mg/L	1.00	0.0100	0.0100	10422231	FT1500		12/19/19
Field Turbidity	33.1	NTU	1.00	0.0100	0.0100	10422232	FT1600		12/19/19
Mercury	0.0000200 U	mg/L	1.00	0.0000200	0.0000400	10422389	EPA7470	7439-97-6	12/24/19
Iron	31.5	mg/L	1.00	0.0100	0.0200	10422410	EPA6010	7439-89-6	12/24/19
Sodium	23.0	mg/L	1.00	0.500	1.00	10422410	EPA6010	7440-23-5	12/24/19
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	630-20-6	12/24/19
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	71-55-6	12/24/19
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10422458	EPA8260	79-34-5	12/24/19
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	79-00-5	12/24/19
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-34-3	12/24/19
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-35-4	12/24/19
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10422458	EPA8260	107-06-2	12/24/19
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10422458	EPA8260	78-87-5	12/24/19
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	78-93-3	12/24/19
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	591-78-6	12/24/19
2-chloroethylvinylether	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	110-75-8	12/24/19
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10422458	EPA8260	67-64-1	12/24/19
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10422458	EPA8260	107-13-1	12/24/19
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	71-43-2	12/24/19
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10422458	EPA8260	074-97-5	12/24/19
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10422458	EPA8260	75-27-4	12/24/19



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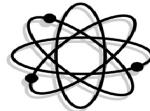
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Date Sampled: Dec 19, 2019
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Lab #: 422627GW1 Sampled: 12/19/19 09:10 AM Desc: MW-11/21882

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-25-2	12/24/19
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	74-83-9	12/24/19
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	75-15-0	12/24/19
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	56-23-5	12/24/19
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	108-90-7	12/24/19
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-00-3	12/24/19
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	67-66-3	12/24/19
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	74-87-3	12/24/19
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10422458	EPA8260	124-48-1	12/24/19
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	074-95-3	12/24/19
Dichlorodifluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-71-8	12/24/19
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	100-41-4	12/24/19
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	074-88-4	12/24/19
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	108-10-1	12/24/19
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	75-09-2	12/24/19
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	106-46-7	12/24/19
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	100-42-5	12/24/19
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	127-18-4	12/24/19
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	108-88-3	12/24/19
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	79-01-6	12/24/19
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-69-4	12/24/19
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10422458	EPA8260	108-05-4	12/24/19
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-01-4	12/24/19
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	1330-20-7	12/24/19
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10422458	EPA8260	156-59-2	12/24/19
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	10061-01-5	12/24/19
m-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	541-73-1	12/24/19
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	95-50-1	12/24/19
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	156-60-5	12/24/19



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Atkins-Tampa
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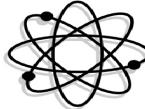
PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 19, 2019
Jan 6, 2020; Invoice: 422627

Lab #: 422627GW1 Sampled: 12/19/19 09:10 AM Desc: MW-11/21882

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	10422458	EPA8260	10061-02-6	12/24/19
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	110-57-6	12/24/19
Surr:1,2-Dichloroethane-d4 (50-150%)	98.23%		1.00	0.0100	0.0100	10422458	EPA8260		12/24/19
Surr:Bromofluorobenzene (50-150%)	98.43%		1.00	1.00	1.00	10422458	EPA8260	460-00-4	12/24/19
Surr:Toluene-d8 (50-150%)	94.43%		1.00	0.0100	0.0100	10422458	EPA8260		12/24/19
Ammonia (as N)	0.135	mg/L	1.00	0.0100	0.0200	10422503	EPA350.1	7664-41-7	12/26/19
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10422516	EPA8011	096-18-4	12/24/19
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10422516	EPA8011	106-93-4	12/24/19
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10422516	EPA8011	96-12-8	12/24/19
TDS	136	mg/L	1.00	2.50	5.00	10422621	SM2540 C	10-33-3	12/21/19
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10423058	EPA6020	7440-36-0	01/02/20
Arsenic	0.00420	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-38-2	01/02/20
Barium	0.0163	mg/L	1.00	0.00200	0.00400	10423058	EPA6020	7440-39-3	01/02/20
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10423058	EPA6020	7440-41-7	01/02/20
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-43-9	01/02/20
Chromium	0.00120 I	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-47-3	01/02/20
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-48-4	01/02/20
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-50-8	01/02/20
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7439-92-1	01/02/20
Nickel	0.00330	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-02-0	01/02/20
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10423058	EPA6020	7782-49-2	01/02/20
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10423058	EPA6020	7440-22-4	01/02/20
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-28-0	01/02/20
Vanadium	0.00390	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-62-2	01/02/20
Zinc	0.0148 I	mg/L	1.00	0.0100	0.0200	10423058	EPA6020	7440-66-6	01/02/20

Lab #: 422627GW2 Sampled: 12/19/19 10:10 AM Desc: MW-10R/22930

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
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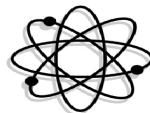
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Phone: 305-743-8598 E35834 (Keys Lab)

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

PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 19, 2019
Jan 6, 2020; Invoice: 422627

Lab #: 422627GW2 Sampled: 12/19/19 10:10 AM Desc: MW-10R/22930

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Nitrate(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10422095	EPA353.2	14797-55-8	12/19/19 05:30 PM
Chloride	34.4	mg/L	1.00	4.00	8.00	10422200	SM4500-CI E	16887-00-6	12/21/19
Field Ground Water Elevation	79.9	ft	1.00	-10.0	-10.0	10422227	FT1000		12/19/19
Field pH (units)	6.51	pH	1.00	0.0100	0.0200	10422228	FT1100	C006	12/19/19
Field Conductivity	643	umhos/cm	1.00	0.0100	0.0100	10422229	FT1200		12/19/19
Field Temp. (C)	23.5	oC	1.00	0.0100	0.0100	10422230	FT1400		12/19/19
Field DO	0.480	mg/L	1.00	0.0100	0.0100	10422231	FT1500		12/19/19
Field Turbidity	7.34	NTU	1.00	0.0100	0.0100	10422232	FT1600		12/19/19
Mercury	0.00000200 U	mg/L	1.00	0.0000200	0.0000400	10422390	EPA7470	7439-97-6	12/24/19
Iron	0.305	mg/L	1.00	0.0100	0.0200	10422410	EPA6010	7439-89-6	12/24/19
Sodium	9.81	mg/L	1.00	0.500	1.00	10422410	EPA6010	7440-23-5	12/24/19
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	630-20-6	12/24/19
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	71-55-6	12/24/19
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10422458	EPA8260	79-34-5	12/24/19
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	79-00-5	12/24/19
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-34-3	12/24/19
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-35-4	12/24/19
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10422458	EPA8260	107-06-2	12/24/19
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10422458	EPA8260	78-87-5	12/24/19
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	78-93-3	12/24/19
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	591-78-6	12/24/19
2-chloroethylvinylether	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	110-75-8	12/24/19
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10422458	EPA8260	67-64-1	12/24/19
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10422458	EPA8260	107-13-1	12/24/19
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	71-43-2	12/24/19
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10422458	EPA8260	074-97-5	12/24/19
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10422458	EPA8260	75-27-4	12/24/19
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-25-2	12/24/19
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	74-83-9	12/24/19



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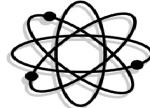
P.O. Box 150597, Altamonte Springs, FL 32715-0597
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Atkins-Tampa
 4030 W. Boy Scout Blvd, Ste 700
 Tampa, FL 33607

PO #: 40612
 Client Project #: HARDEE COUNTY LF
 Date Sampled: Dec 19, 2019
 Jan 6, 2020; Invoice: 422627

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	75-15-0	12/24/19
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	56-23-5	12/24/19
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	108-90-7	12/24/19
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-00-3	12/24/19
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	67-66-3	12/24/19
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	74-87-3	12/24/19
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10422458	EPA8260	124-48-1	12/24/19
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	074-95-3	12/24/19
Dichlorodifluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-71-8	12/24/19
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	100-41-4	12/24/19
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	074-88-4	12/24/19
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	108-10-1	12/24/19
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	75-09-2	12/24/19
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	106-46-7	12/24/19
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	100-42-5	12/24/19
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	127-18-4	12/24/19
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	108-88-3	12/24/19
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	79-01-6	12/24/19
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-69-4	12/24/19
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10422458	EPA8260	108-05-4	12/24/19
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-01-4	12/24/19
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	1330-20-7	12/24/19
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10422458	EPA8260	156-59-2	12/24/19
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	10061-01-5	12/24/19
m-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	541-73-1	12/24/19
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	95-50-1	12/24/19
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	156-60-5	12/24/19
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	10061-02-6	12/24/19
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	110-57-6	12/24/19



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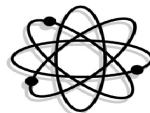
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PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 19, 2019
Jan 6, 2020; Invoice: 422627

Lab #: 422627GW2 Sampled: 12/19/19 10:10 AM Desc: MW-10R/22930

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Surr:1,2-Dichloroethane-d4 (50-150%)	96.47%			1.00	0.0100	0.0100	10422458	EPA8260	12/24/19
Surr:Bromofluorobenzene (50-150%)	96.53%			1.00	1.00	1.00	10422458	EPA8260	460-00-4
Surr:Toluene-d8 (50-150%)	93.13%			1.00	0.0100	0.0100	10422458	EPA8260	12/24/19
Ammonia (as N)	0.751	mg/L	1.00	0.0100	0.0200	10422503	EPA350.1	7664-41-7	12/26/19
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10422516	EPA8011	096-18-4	12/24/19
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10422516	EPA8011	106-93-4	12/24/19
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10422516	EPA8011	96-12-8	12/24/19
TDS	356	mg/L	1.00	2.50	5.00	10422621	SM2540 C	10-33-3	12/21/19
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10423058	EPA6020	7440-36-0	01/02/20
Arsenic	0.00100 U	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-38-2	01/02/20
Barium	0.0216	mg/L	1.00	0.00200	0.00400	10423058	EPA6020	7440-39-3	01/02/20
Beryllium	0.00190	mg/L	1.00	0.000500	0.00100	10423058	EPA6020	7440-41-7	01/02/20
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-43-9	01/02/20
Chromium	0.00290	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-47-3	01/02/20
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-48-4	01/02/20
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-50-8	01/02/20
Lead	0.00200	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7439-92-1	01/02/20
Nickel	0.00120 I	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-02-0	01/02/20
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10423058	EPA6020	7782-49-2	01/02/20
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10423058	EPA6020	7440-22-4	01/02/20
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-28-0	01/02/20
Vanadium	0.00810	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-62-2	01/02/20
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10423058	EPA6020	7440-66-6	01/02/20



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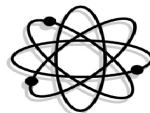
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Atkins-Tampa
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 19, 2019
Jan 6, 2020; Invoice: 422627

Quality Report

Quality Control Batch: 10422095		Analyst: PCW						
Blank		Result	Units					
Nitrate(as N)		0.0200U	mg/L					
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim		
Nitrate(as N)		1.02	mg/L	1.00	101.80	90.00-110.00		
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number
Nitrate(as N)		3.95	mg/L	4.00	98.75	90.00-110.00	0.0200U	422625GW2
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD
Nitrate(as N)		3.97	mg/L	4.00	99.25	90.00-110.00	0.0200U	0.51
Quality Control Batch: 10422200		Analyst: VLB						
Blank		Result	Units					
Chloride		4.00U	mg/L					
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim		
Chloride		157	mg/L	150	104.67	80.00-120.00		
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number
Chloride		110	mg/L	100	99.90	80.00-120.00	10.1	422674GW2
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD
Chloride		109	mg/L	100	98.90	80.00-120.00	10.1	0.91
RPD Lim 20.00								



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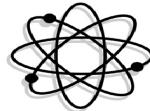
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Quality Control Batch: 10422389		Analyst: EVB						
Blank		Result	Units					
Mercury		0.0000200U	mg/L					
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim		
Mercury		0.000995	mg/L	0.00100	99.46	80.00-120.00		
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number
Mercury		0.00296	mg/L	0.00300	99.78	80.00-120.00	-0.0000345	422651WW1
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD
Mercury		0.00295	mg/L	0.00300	99.58	80.00-120.00	-0.0000345	0.20
Quality Control Batch: 10422390		Analyst: EVB						
Blank		Result	Units					
Mercury		0.0000200U	mg/L					
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim		
Mercury		0.000995	mg/L	0.00100	99.46	80.00-120.00		
Quality Control Batch: 10422410		Analyst: EVB						
Blank		Result	Units					
Iron		0.0100U	mg/L					
Sodium		0.500U	mg/L					
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim		
Iron		11.2	mg/L	10.0	111.59	80.00-120.00		
Sodium		9.99	mg/L	10.0	99.86	80.00-120.00		



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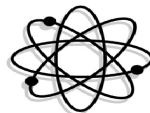
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Quality Control Batch: 10422410		Analyst: EVB						
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number	
Iron	14.8	mg/L	15.0	97.22	80.00-120.00	0.178	422723DW1	
Sodium	19.8	mg/L	15.0	101.07	75.00-125.00	4.64	422723DW1	
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD
Iron	14.6	mg/L	15.0	96.40	80.00-120.00	0.178	0.84	20.00
Sodium	18.0	mg/L	15.0	88.78	75.00-125.00	4.64	9.77	20.00
Quality Control Batch: 10422458		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						
2-chloroethylvinylether	1.00U	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						
Bromomethane	0.500U	ug/L						
Carbon Disulfide	1.00U	ug/L						
Carbon Tetrachloride	0.500U	ug/L						



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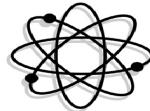
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Quality Control Batch: 10422458

Blank	Analyst: BNP	
	Result	Units
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
Dichlorodifluoromethane	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
m-dichlorobenzene	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	29.7	ug/L
Surr:Bromofluorobenzene	30.3	ug/L



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Quality Control Batch: 10422458

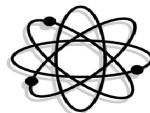
Blank
Surr:Toluene-d8

Analyst: BNP

Result	Units
29.2	ug/L

Laboratory Control Sample

	Result	Units	Spike	%REC	%REC Lim
1,1,1,2-Tetrachloroethane	46.9	ug/L	40.0	117.20	50.00-150.00
1,1,1-Trichloroethane	46.2	ug/L	40.0	115.58	50.00-150.00
1,1,2,2-Tetrachloroethane	41.6	ug/L	40.0	103.95	50.00-150.00
1,1,2-Trichloroethane	47.5	ug/L	40.0	118.82	50.00-150.00
1,1-Dichloroethane	42.9	ug/L	40.0	107.22	50.00-150.00
1,1-Dichloroethene	49.3	ug/L	40.0	123.28	50.00-150.00
1,2-dichloroethane	49.7	ug/L	40.0	124.15	50.00-150.00
1,2-dichloropropane	51.0	ug/L	40.0	127.55	50.00-150.00
2-Butanone (MEK)	49.6	ug/L	40.0	123.95	50.00-150.00
2-Hexanone	45.1	ug/L	40.0	112.80	50.00-150.00
Acetone	47.7	ug/L	40.0	119.17	50.00-150.00
Acrylonitrile	48.4	ug/L	40.0	120.92	50.00-150.00
Benzene	50.4	ug/L	40.0	125.97	50.00-150.00
Bromochloromethane	44.5	ug/L	40.0	111.20	50.00-150.00
Bromodichloromethane	48.9	ug/L	40.0	122.25	70.00-130.00
Bromoform	48.7	ug/L	40.0	121.65	50.00-130.00
Bromomethane	51.6	ug/L	40.0	128.95	50.00-150.00
Carbon Disulfide	49.6	ug/L	40.0	124.05	50.00-150.00
Carbon Tetrachloride	50.8	ug/L	40.0	127.08	50.00-150.00
Chlorobenzene	44.1	ug/L	40.0	110.22	50.00-150.00
Chloroethane	50.4	ug/L	40.0	125.97	50.00-150.00
Chloroform	49.0	ug/L	40.0	122.43	50.00-150.00
Chloromethane	47.2	ug/L	40.0	117.95	50.00-150.00
Dibromochloromethane	46.7	ug/L	40.0	116.62	50.00-150.00
Dibromomethane	47.6	ug/L	40.0	118.90	50.00-150.00
Dichlorodifluoromethane	45.0	ug/L	40.0	112.40	35.00-155.00



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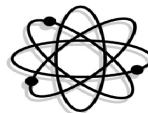
Quality Control Batch: 10422458

Laboratory Control Sample

	Analyst: BNP				
	Result	Units	Spike	%REC	%REC Lim
Ethylbenzene	47.1	ug/L	40.0	117.80	50.00-150.00
Methyl Iodide	50.0	ug/L	40.0	125.10	50.00-150.00
Methyl isobutyl ketone	46.6	ug/L	40.0	116.45	50.00-150.00
Methylene chloride	44.6	ug/L	40.0	111.58	50.00-150.00
Para-dichlorobenzene	40.5	ug/L	40.0	101.15	50.00-150.00
Styrene	42.6	ug/L	40.0	106.45	50.00-150.00
Tetrachloroethene	48.2	ug/L	40.0	120.45	50.00-150.00
Toluene	50.3	ug/L	40.0	125.73	50.00-150.00
Trichloroethene	46.4	ug/L	40.0	116.00	50.00-150.00
Trichlorofluoromethane	42.4	ug/L	40.0	105.97	50.00-150.00
Vinyl chloride	40.0	ug/L	40.0	100.03	50.00-150.00
Xylenes	140	ug/L	120	116.28	50.00-150.00
cis-1,2-dichloroethene	40.0	ug/L	40.0	99.90	50.00-150.00
cis-1,3-Dichloropropene	44.6	ug/L	40.0	111.40	50.00-150.00
m-dichlorobenzene	40.4	ug/L	40.0	101.08	50.00-150.00
o-dichlorobenzene	39.4	ug/L	40.0	98.40	50.00-150.00
trans-1,2-dichloroethene	47.9	ug/L	40.0	119.62	50.00-150.00
trans-1,3,-Dichloropropene	50.6	ug/L	40.0	126.50	50.00-150.00
Surr:1,2-Dichloroethane-d4	29.0	ug/L	30.0	96.53	50.00-150.00
Surr:Bromofluorobenzene	29.2	ug/L	30.0	97.27	50.00-150.00
Surr:Toluene-d8	31.8	ug/L	30.0	105.87	50.00-150.00

Laboratory Control Sample Duplicate

	Result	Units	Spike	%REC	%REC Lim	RPD	RPD Lim
1,1,1,2-Tetrachloroethane	43.6	ug/L	40.0	109.05	50.00-150.00	7.20	20.00
1,1,1-Trichloroethane	41.3	ug/L	40.0	103.15	50.00-150.00	11.36	20.00
1,1,2,2-Tetrachloroethane	40.6	ug/L	40.0	101.47	50.00-150.00	2.41	20.00
1,1,2-Trichloroethane	46.2	ug/L	40.0	115.58	50.00-150.00	2.77	20.00
1,1-Dichloroethane	57.8	ug/L	40.0	144.40	50.00-150.00	29.55	20.00
1,1-Dichloroethene	44.5	ug/L	40.0	111.27	50.00-150.00	10.23	20.00



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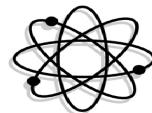
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Laboratory Control Sample Duplicate	Analyst: BNP	Result	Units	Spike	%REC	%REC Lim	RPD	RPD Lim
1,2-dichloroethane		47.1	ug/L	40.0	117.83	50.00-150.00	5.23	20.00
1,2-dichloropropane		47.5	ug/L	40.0	118.82	50.00-150.00	7.08	20.00
2-Butanone (MEK)		49.8	ug/L	40.0	124.43	50.00-150.00	0.38	20.00
2-Hexanone		45.3	ug/L	40.0	113.20	50.00-150.00	0.35	20.00
Acetone		45.4	ug/L	40.0	113.40	50.00-150.00	4.97	20.00
Acrylonitrile		46.8	ug/L	40.0	117.00	50.00-150.00	3.30	30.00
Benzene		45.7	ug/L	40.0	114.28	50.00-150.00	9.74	20.00
Bromochloromethane		50.4	ug/L	40.0	125.92	50.00-150.00	12.42	20.00
Bromodichloromethane		45.7	ug/L	40.0	114.12	70.00-130.00	6.87	20.00
Bromoform		46.6	ug/L	40.0	116.58	50.00-130.00	4.26	20.00
Bromomethane		50.9	ug/L	40.0	127.35	50.00-150.00	1.25	20.00
Carbon Disulfide		48.8	ug/L	40.0	122.08	50.00-150.00	1.60	20.00
Carbon Tetrachloride		45.1	ug/L	40.0	112.68	50.00-150.00	12.01	20.00
Chlorobenzene		40.7	ug/L	40.0	101.72	50.00-150.00	8.02	20.00
Chloroethane		52.1	ug/L	40.0	130.15	50.00-150.00	3.26	20.00
Chloroform		44.8	ug/L	40.0	111.95	50.00-150.00	8.94	20.00
Chloromethane		44.1	ug/L	40.0	110.22	50.00-150.00	6.77	20.00
Dibromochloromethane		44.5	ug/L	40.0	111.20	50.00-150.00	4.76	20.00
Dibromomethane		45.2	ug/L	40.0	112.95	50.00-150.00	5.13	20.00
Dichlorodifluoromethane		49.2	ug/L	40.0	122.95	35.00-155.00	8.97	20.00
Ethylbenzene		43.1	ug/L	40.0	107.85	50.00-150.00	8.82	20.00
Methyl Iodide		63.6	ug/L	40.0	159.10	50.00-150.00	23.93	20.00
Methyl isobutyl ketone		44.7	ug/L	40.0	111.75	50.00-150.00	4.12	20.00
Methylene chloride		44.7	ug/L	40.0	111.77	50.00-150.00	0.18	20.00
Para-dichlorobenzene		38.6	ug/L	40.0	96.47	50.00-150.00	4.73	20.00
Styrene		39.2	ug/L	40.0	97.90	50.00-150.00	8.37	20.00
Tetrachloroethene		44.0	ug/L	40.0	109.90	50.00-150.00	9.16	20.00
Toluene		46.3	ug/L	40.0	115.62	50.00-150.00	8.37	20.00
Trichloroethene		42.2	ug/L	40.0	105.38	50.00-150.00	9.60	20.00



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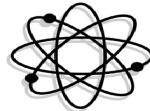
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Quality Control Batch: 10422458		Analyst: BNP						
Laboratory Control Sample Duplicate		Result	Units	Spike	%REC	%REC Lim	RPD	RPD Lim
Trichlorofluoromethane		38.4	ug/L	40.0	96.00	50.00-150.00	9.88	20.00
Vinyl chloride		37.5	ug/L	40.0	93.70	50.00-150.00	6.53	20.00
Xylenes		127	ug/L	120	105.79	50.00-150.00	9.44	20.00
cis-1,2-dichloroethene		49.4	ug/L	40.0	123.60	50.00-150.00	21.21	20.00
cis-1,3-Dichloropropene		40.9	ug/L	40.0	102.17	50.00-150.00	8.64	20.00
m-dichlorobenzene		38.4	ug/L	40.0	96.00	50.00-150.00	5.15	20.00
o-dichlorobenzene		37.2	ug/L	40.0	93.00	50.00-150.00	5.64	20.00
trans-1,2-dichloroethene		42.9	ug/L	40.0	107.35	50.00-150.00	10.82	20.00
trans-1,3,-Dichloropropene		47.6	ug/L	40.0	119.03	50.00-150.00	6.09	20.00
Surr:1,2-Dichloroethane-d4		28.7	ug/L	30.0	95.73	50.00-150.00	0.83	20.00
Surr:Bromofluorobenzene		29.4	ug/L	30.0	98.07	50.00-150.00	0.82	20.00
Surr:Toluene-d8		31.6	ug/L	30.0	105.47	50.00-150.00	0.38	20.00
Quality Control Batch: 10422503		Analyst: PCW						
Blank		Result	Units					
Ammonia (as N)		0.0100U	mg/L					
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim		
Ammonia (as N)		2.12	mg/L	2.00	106.00	90.00-110.00		
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number
Ammonia (as N)		2.70	mg/L	1.60	83.75	90.00-110.00	1.36	422625GW1
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD
Ammonia (as N)		2.67	mg/L	1.60	81.88	90.00-110.00	1.36	1.12
Quality Control Batch: 10422516		Analyst: DLJ						
Blank		Result	Units					



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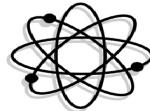
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Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 19, 2019
Jan 6, 2020; Invoice: 422627

Quality Control Batch: 10422516		Analyst: DLJ					
Blank	Result	Units	Spike	%REC	%REC Lim	RPD	RPD Lim
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	Result	Units	Spike	%REC	%REC Lim	RPD	RPD Lim
1,2,3-Trichloropropane	0.226	ug/L	0.251	89.98	50.00-170.00		
1,2-Dibromoethane (EDB)	0.248	ug/L	0.251	98.57	50.00-170.00		
1,2-dibromo-3-chloropropane	0.247	ug/L	0.251	98.25	50.00-170.00		
Laboratory Control Sample Duplicate	Result	Units	Spike	%REC	%REC Lim	RPD	RPD Lim
1,2,3-Trichloropropane	0.253	ug/L	0.251	100.60	50.00-170.00	11.15	30.00
1,2-Dibromoethane (EDB)	0.203	ug/L	0.251	80.87	50.00-170.00	19.73	30.00
1,2-dibromo-3-chloropropane	0.239	ug/L	0.251	95.15	50.00-170.00	3.21	30.00

Quality Control Batch: 10422621		Analyst: PLB					
Blank	Result	Units	Spike	%REC	%REC Lim	RPD	RPD Lim
TDS	2.50U	mg/L					
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim	RPD	RPD Lim
TDS	1490	mg/L	1500	99.07	80.00-120.00		
Duplicate	Result	Units	Sample	RPD	RPD Lim	Lab Number	
TDS	638	mg/L	644	0.94	20.00	422751SW1	

Quality Control Batch: 10423058		Analyst: EVB					
Blank	Result	Units	Spike	%REC	%REC Lim	RPD	RPD Lim
Antimony	0.00200U	mg/L					



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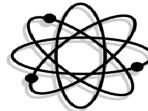
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Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 19, 2019
Jan 6, 2020; Invoice: 422627

Quality Control Batch: 10423058

Blank	Analyst: EVB	Result	Units
Arsenic		0.00100U	mg/L
Barium		0.00200U	mg/L
Beryllium		0.000500U	mg/L
Cadmium		0.00100U	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	0.0905	mg/L	0.100	90.50	80.00-120.00
Arsenic	0.0986	mg/L	0.100	98.60	80.00-120.00
Barium	0.101	mg/L	0.100	101.20	80.00-120.00
Beryllium	0.114	mg/L	0.100	113.50	80.00-120.00
Cadmium	0.0943	mg/L	0.100	94.30	80.00-120.00
Chromium	0.108	mg/L	0.100	107.50	80.00-120.00
Cobalt	0.109	mg/L	0.100	108.90	80.00-120.00
Copper	0.0965	mg/L	0.100	96.50	80.00-120.00
Lead	0.104	mg/L	0.100	104.20	80.00-120.00
Nickel	0.107	mg/L	0.100	107.10	80.00-120.00
Selenium	0.0908	mg/L	0.100	90.80	80.00-120.00
Silver	0.103	mg/L	0.100	103.00	80.00-120.00
Thallium	0.0976	mg/L	0.100	97.60	80.00-120.00



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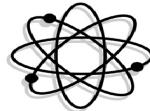
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 Tampa, FL 33607

PO #: 40612
 Client Project #: HARDEE COUNTY LF
 Date Sampled: Dec 19, 2019
 Jan 6, 2020; Invoice: 422627

Quality Control Batch: 10423058		Analyst: EVB							
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim			
Vanadium		0.104	mg/L	0.100	103.80	80.00-120.00			
Zinc		0.0913	mg/L	0.100	91.30	80.00-120.00			
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number	
Antimony		0.225	mg/L	0.200	112.50	75.00-125.00	0.00200U	422674GW2	
Arsenic		0.194	mg/L	0.200	97.20	75.00-125.00	0.00100U	422674GW2	
Barium		0.169	mg/L	0.200	84.55	75.00-125.00	0.00200U	422674GW2	
Beryllium		0.204	mg/L	0.200	102.05	75.00-125.00	0.000500U	422674GW2	
Cadmium		0.174	mg/L	0.200	86.90	75.00-125.00	0.00100U	422674GW2	
Chromium		0.203	mg/L	0.200	101.35	75.00-125.00	0.00100U	422674GW2	
Cobalt		0.269	mg/L	0.200	134.60	75.00-125.00	0.00100U	422674GW2	
Copper		0.219	mg/L	0.200	108.90	75.00-125.00	0.00120	422674GW2	
Lead		0.239	mg/L	0.200	119.35	75.00-125.00	0.00100U	422674GW2	
Nickel		0.257	mg/L	0.200	127.20	75.00-125.00	0.00230	422674GW2	
Selenium		0.158	mg/L	0.200	79.00	75.00-125.00	0.00200U	422674GW2	
Silver		0.221	mg/L	0.200	110.40	75.00-125.00	0.000500U	422674GW2	
Thallium		0.232	mg/L	0.200	115.85	75.00-125.00	0.00100U	422674GW2	
Vanadium		0.228	mg/L	0.200	108.15	75.00-125.00	0.0116	422674GW2	
Zinc		0.185	mg/L	0.200	88.10	75.00-125.00	0.00830	422674GW2	
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Antimony		0.229	mg/L	0.200	114.35	75.00-125.00	0.00200U	1.63	40.00
Arsenic		0.194	mg/L	0.200	97.15	75.00-125.00	0.00100U	0.05	20.00
Barium		0.169	mg/L	0.200	84.50	75.00-125.00	0.00200U	0.06	20.00
Beryllium		0.204	mg/L	0.200	101.80	75.00-125.00	0.000500U	0.25	40.00
Cadmium		0.180	mg/L	0.200	89.90	75.00-125.00	0.00100U	3.39	20.00
Chromium		0.226	mg/L	0.200	113.00	75.00-125.00	0.00100U	10.87	20.00
Cobalt		0.271	mg/L	0.200	135.70	75.00-125.00	0.00100U	0.81	40.00
Copper		0.225	mg/L	0.200	111.90	75.00-125.00	0.00120	2.70	20.00



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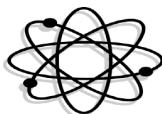
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4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 19, 2019
Jan 6, 2020; Invoice: 422627

Quality Control Batch: 10423058		Analyst: EVB							
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim	
Lead	0.243	mg/L	0.200	121.40	75.00-125.00	0.00100U	1.70	20.00	
Nickel	0.260	mg/L	0.200	128.75	75.00-125.00	0.00230	1.20	20.00	
Selenium	0.153	mg/L	0.200	76.50	75.00-125.00	0.00200U	3.22	20.00	
Silver	0.224	mg/L	0.200	112.15	75.00-125.00	0.000500U	1.57	20.00	
Thallium	0.233	mg/L	0.200	116.30	75.00-125.00	0.00100U	0.39	40.00	
Vanadium	0.223	mg/L	0.200	105.55	75.00-125.00	0.0116	2.31	20.00	
Zinc	0.185	mg/L	0.200	88.50	75.00-125.00	0.00830	0.43	20.00	



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PO #: 40612
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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
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Flowers Chemical Labs-Keys

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Marathon, FL 33050
Bus: 305-743-8598
Fax: 305-743-8598



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Client

AtKins - Tampa

Address

4030 W. Boy Scout Boulevard
Suite 700, Tampa, FL 33607

Phone

813-281-8377

Sampled By (PRINT):

Bradley J. Bayne

Sampler Signature

Bradley Bayne

Date Sampled

12/19/19

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 ₂ SO ₄	HNO ₃	HCl	Na ₂ S ₂ O ₃			
1	MW-11	12/19/19	9:10	GW	420627GW	3	1	1	2		"Landfill Applt"	see attached	
2	MW-10R	12/19/19	10:10	GW		1	3	1	1	2			
3													
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 Bayne</i>	12/19/19	11:56	<i>J. McPhee</i>	12/19/19	11:55	<i>J. McPhee</i>	12/19	14:15	<i>J. McPhee</i>	12/19	14:15

FINANCE CHARGES APPLIED TO PAST DUE INVOICES

• WHITE - Lab Copy - To Be Scanned

• YELLOW - Client Copy

0.4°C

Rev 04-08

Flowers Chemical Laboratories

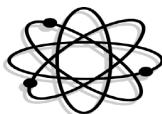
481 Newburyport Ave.
Altamonte Springs, FL 32701

KIT REQUEST FORM

Phone (407) 339-5984 Fax (407) 260-6110

FCL Project Manager: June Flowers

Total Con- ta- iners	PARAMETERS	C oun- ta- iners per Sample	C oun- ta- iners per Sample	Preservative												Plastic						Glass Containers											
				M e t al o l i	H N O H 3	Zn (C2 O2)	N a O H 3	H S O 2	N a O H 3	Mn SO4/ ALK	H C L	N H 4 C	125 mL	250 mL	250 mL	500 mL	T L	Whirl Pak	Coll Bottle	40 mL vial	125 mL	250 mL	T L	1 L	4 L	8 oz Soil	4 oz Soil	300 mL BOD Bottle					
		X	10ml																														
8	Metals	1	GW	X												X																	
16	App 1 (8260)	2	GW												X																		
16	App 1 (8011)	2	GW																														
8	Cl-, NO3, TDS	1	GW														X																
8	NH3	1	GW				X			X																							
Hardee kit 1																																	
"LandfillApp1+" = quicklist it includes the field parms																																	
Ship To:			Client #			Date Ordered: 12/13/19						Date to be Shipped: 12/16/19						Date Needed: 12/17/19															
Atkins - Tampa 4030 W. Boy Scout Blvd, Ste 700 Tampa FL 33707						Extra Coolers: <input type="checkbox"/> (L) <input type="checkbox"/> (M) <input type="checkbox"/> (S)			Trip Blanks: 1 w/HCl <input type="checkbox"/> w/o HCl			Custody Chain: 1 Env. <input type="checkbox"/> DW			<input type="checkbox"/> Customer Pick Up: Date: _____ Time: _____																		
ATTN: Bradley Bayne						Temp Blank: <input type="checkbox"/>			Bailers: <input type="checkbox"/>						SHIPPING METHOD																		
Project: "40612" Location: Hardee County Landfill Sampling Dates: 12-18-18						Special Notes: Use Quicklist "LandfillApp1+" it includes the field parms			Cooler ID			<input checked="" type="checkbox"/> STD. UPS <input type="checkbox"/> DHL Next Day <input type="checkbox"/> Fed-Ex Flowers Account <input type="checkbox"/> Fed-Ex Client Account # _____ <input type="checkbox"/> Other: _____																					
SAMPLE KIT ID: Return this with COC - 1 of 2 Thank You for Your Business																																	



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PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 19, 2019
Jan 6, 2020; Invoice: 422629

Report Summary

Date Received: Dec 19, 2019

FCL Project Manager: June S. Flowers

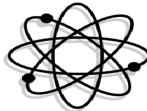
Laboratory #	Sample Description	Analysis	Chemist	Location	Sample Matrix
422629GW1	Trip Blank 2	EPA8260	BNP	Main Lab	Ground Water
422629SW1	SW-2/21062	COLILERT-18	OKS	Main Lab	Surface Water
		EPA245.1	EVB	Main Lab	
		EPA350.1	PCW	Main Lab	
		EPA351.2	VLB	Main Lab	
		EPA353.2	PCW	Main Lab	
		EPA365.4	VLB	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			

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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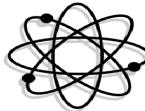
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Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 19, 2019
Jan 6, 2020; Invoice: 422629

Analysis Report

Lab #: 422629GW1 Sampled: 12/19/19 10:50 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	10422462	EPA8260	630-20-6	12/24/19
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	71-55-6	12/24/19
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10422462	EPA8260	79-34-5	12/24/19
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	79-00-5	12/24/19
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	75-34-3	12/24/19
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	75-35-4	12/24/19
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10422462	EPA8260	107-06-2	12/24/19
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10422462	EPA8260	78-87-5	12/24/19
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	2.00	10422462	EPA8260	78-93-3	12/24/19
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	591-78-6	12/24/19
2-chloroethylvinylether	1.00 U	ug/L	1.00	1.00	2.00	10422462	EPA8260	110-75-8	12/24/19
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10422462	EPA8260	67-64-1	12/24/19
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10422462	EPA8260	107-13-1	12/24/19
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	71-43-2	12/24/19
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10422462	EPA8260	074-97-5	12/24/19
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10422462	EPA8260	75-27-4	12/24/19
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	75-25-2	12/24/19
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	74-83-9	12/24/19
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10422462	EPA8260	75-15-0	12/24/19
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	56-23-5	12/24/19
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	108-90-7	12/24/19
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	75-00-3	12/24/19
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	67-66-3	12/24/19
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	74-87-3	12/24/19
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10422462	EPA8260	124-48-1	12/24/19
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	074-95-3	12/24/19
Dichlorodifluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	75-71-8	12/24/19



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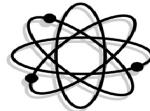
PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 19, 2019
Jan 6, 2020; Invoice: 422629

Lab #: 422629GW1 Sampled: 12/19/19 10:50 AM Desc: Trip Blank 2

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	100-41-4	12/24/19
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10422462	EPA8260	074-88-4	12/24/19
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10422462	EPA8260	108-10-1	12/24/19
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10422462	EPA8260	75-09-2	12/24/19
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	106-46-7	12/24/19
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	100-42-5	12/24/19
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	127-18-4	12/24/19
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	108-88-3	12/24/19
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	79-01-6	12/24/19
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	75-69-4	12/24/19
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10422462	EPA8260	108-05-4	12/24/19
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	75-01-4	12/24/19
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	1330-20-7	12/24/19
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10422462	EPA8260	156-59-2	12/24/19
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	10061-01-5	12/24/19
m-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	541-73-1	12/24/19
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	95-50-1	12/24/19
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	156-60-5	12/24/19
trans-1,3,-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10422462	EPA8260	10061-02-6	12/24/19
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10422462	EPA8260	110-57-6	12/24/19
Surr:1,2-Dichloroethane-d4 (50-150%)	96.13%		1.00	0.0100	0.0100	10422462	EPA8260		12/24/19
Surr:Bromofluorobenzene (50-150%)	98.87%		1.00	1.00	1.00	10422462	EPA8260	460-00-4	12/24/19
Surr:Toluene-d8 (50-150%)	92.47%		1.00	0.0100	0.0100	10422462	EPA8260		12/24/19

Lab #: 422629SW1 Sampled: 12/19/19 10:50 AM Desc: SW-2/21062

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Total Nitrogen(as N)	4.80		0				TotNit	17778-88-0	
Nitrate(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10422094	EPA353.2	14797-55-8	12/19/19 05:30 PM



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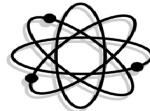
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PO #: 40612
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Jan 6, 2020; Invoice: 422629

Lab #: 422629SW1 Sampled: 12/19/19 10:50 AM Desc: SW-2/21062

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Nitrite(as N)	0.0200 U	mg/L	1.00	0.0200	0.0400	10422094	EPA353.2	14797-65-0	12/19/19 05:30 PM
Fecal Coliform	2420 J	mpn/100mL	1.00	1.00	1.00	10422124	COLILERT-18	E761792	12/19/19 04:20 PM
Chemical Oxygen Demand	70.4	mg/L	1.00	10.0	20.0	10422176	EPA410.4	C-004	12/20/19
TSS	1.75 I	mg/L	1.00	1.00	2.00	10422197	SM2540 D	E1642818	12/21/19
Field pH (units)	5.48	pH	1.00	0.0100	0.0200	10422234	FT1100	C006	12/19/19
Field Conductivity	401	umhos/cm	1.00	0.0100	0.0100	10422235	FT1200		12/19/19
Field Temp. (C)	14.9	oC	1.00	0.0100	0.0100	10422236	FT1400		12/19/19
Field DO	1.96	mg/L	1.00	0.0100	0.0100	10422237	FT1500		12/19/19
Field Turbidity	3.28	NTU	1.00	0.0100	0.0100	10422238	FT1600		12/19/19
Ammonia (as N)	2.20	mg/L	1.00	0.0100	0.0200	10422343	EPA350.1	7664-41-7	12/23/19
Unionized NH3(as N)	0.000880	mg/L	1.00	0.000100	0.000200	10422344	FDEP DEP-SOF		12/23/19
Iron	0.763	mg/L	1.00	0.0100	0.0200	10422410	EPA6010	7439-89-6	12/24/19
TOC	28.4	mg/L	1.00	1.00	2.00	10422431	SM5310 C	E701250	12/24/19
1,1,1,2-Tetrachloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	630-20-6	12/24/19
1,1,1-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	71-55-6	12/24/19
1,1,2,2-Tetrachloroethane	0.100 U	ug/L	1.00	0.100	0.200	10422458	EPA8260	79-34-5	12/24/19
1,1,2-Trichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	79-00-5	12/24/19
1,1-Dichloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-34-3	12/24/19
1,1-Dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-35-4	12/24/19
1,2-dichloroethane	0.500 U	ug/L	1.00	0.500	0.500	10422458	EPA8260	107-06-2	12/24/19
1,2-dichloropropane	0.200 U	ug/L	1.00	0.200	0.400	10422458	EPA8260	78-87-5	12/24/19
2-Butanone (MEK)	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	78-93-3	12/24/19
2-Hexanone	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	591-78-6	12/24/19
2-chloroethylvinylether	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	110-75-8	12/24/19
Acetone	5.00 U	ug/L	1.00	5.00	10.0	10422458	EPA8260	67-64-1	12/24/19
Acrylonitrile	0.300 U	ug/L	1.00	0.300	0.600	10422458	EPA8260	107-13-1	12/24/19
Benzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	71-43-2	12/24/19
Bromochloromethane	0.100 U	ug/L	1.00	0.100	0.100	10422458	EPA8260	074-97-5	12/24/19
Bromodichloromethane	0.100 U	ug/L	1.00	0.100	0.200	10422458	EPA8260	75-27-4	12/24/19



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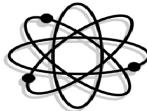
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PO #: 40612
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Lab #: 422629SW1 Sampled: 12/19/19 10:50 AM Desc: SW-2/21062

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Bromoform	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-25-2	12/24/19
Bromomethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	74-83-9	12/24/19
Carbon Disulfide	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	75-15-0	12/24/19
Carbon Tetrachloride	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	56-23-5	12/24/19
Chlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	108-90-7	12/24/19
Chloroethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-00-3	12/24/19
Chloroform	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	67-66-3	12/24/19
Chloromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	74-87-3	12/24/19
Dibromochloromethane	0.400 U	ug/L	1.00	0.400	0.800	10422458	EPA8260	124-48-1	12/24/19
Dibromomethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	074-95-3	12/24/19
Dichlorodifluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-71-8	12/24/19
Ethylbenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	100-41-4	12/24/19
Methyl Iodide	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	074-88-4	12/24/19
Methyl isobutyl ketone	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	108-10-1	12/24/19
Methylene chloride	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	75-09-2	12/24/19
Para-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	106-46-7	12/24/19
Styrene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	100-42-5	12/24/19
Tetrachloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	127-18-4	12/24/19
Toluene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	108-88-3	12/24/19
Trichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	79-01-6	12/24/19
Trichlorofluoromethane	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-69-4	12/24/19
Vinyl Acetate	10.0 U	ug/L	1.00	10.0	10.0	10422458	EPA8260	108-05-4	12/24/19
Vinyl chloride	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	75-01-4	12/24/19
Xylenes	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	1330-20-7	12/24/19
cis-1,2-dichloroethene	0.200 U	ug/L	1.00	0.200	0.400	10422458	EPA8260	156-59-2	12/24/19
cis-1,3-Dichloropropene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	10061-01-5	12/24/19
m-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	541-73-1	12/24/19
o-dichlorobenzene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	95-50-1	12/24/19
trans-1,2-dichloroethene	0.500 U	ug/L	1.00	0.500	1.00	10422458	EPA8260	156-60-5	12/24/19



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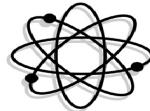
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Lab #: 422629SW1 Sampled: 12/19/19 10:50 AM Desc: SW-2/21062

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	10422458	EPA8260	10061-02-6	12/24/19
trans-1,4-dichloro-2-butene	1.00 U	ug/L	1.00	1.00	2.00	10422458	EPA8260	110-57-6	12/24/19
Surr:1,2-Dichloroethane-d4 (50-150%)	96.67%		1.00	0.0100	0.0100	10422458	EPA8260		12/24/19
Surr:Bromofluorobenzene (50-150%)	93.77%		1.00	1.00	1.00	10422458	EPA8260	460-00-4	12/24/19
Surr:Toluene-d8 (50-150%)	94.37%		1.00	0.0100	0.0100	10422458	EPA8260		12/24/19
Mercury	0.00000500 U	mg/L	1.00	0.00000500	0.0000100	10422485	EPA245.1	7439-97-6	12/26/19
1,2,3-Trichloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10422516	EPA8011	096-18-4	12/24/19
1,2-Dibromoethane (EDB)	0.0100 U	ug/L	1.00	0.0100	0.0200	10422516	EPA8011	106-93-4	12/24/19
1,2-dibromo-3-chloropropane	0.0200 U	ug/L	1.00	0.0200	0.0400	10422516	EPA8011	96-12-8	12/24/19
BOD5day	5.86	mg/L	1.00	2.00	2.00	10422570	SM5210 B	E1640606	12/20/19 01:38 PM
TKN(as N)	4.80	mg/L	1.00	0.200	0.400	10422584	EPA351.2	7727-37-9	12/26/19
Total Phosphorus(as P)	1.26	mg/L	1.00	0.0400	0.100	10422588	EPA365.4	7723-14-0	12/26/19
TDS	296	mg/L	1.00	2.50	5.00	10422621	SM2540 C	10-33-3	12/21/19
Chlorophyll a	1.55	ug/L	1.00	0.0200	0.0800	10422891	SM10200 H	479-61-8	01/02/20
Total Hardness (as CaCO3)	141	mg/L	1.00	0.100	0.200	10422904	SM2340 B	40-11-9	12/24/19
Aluminum	0.0100 U	mg/L	1.00	0.0100	0.0200	10423058	EPA6020	7429-90-5	01/02/20
Antimony	0.00200 U	mg/L	1.00	0.00200	0.00800	10423058	EPA6020	7440-36-0	01/02/20
Arsenic	0.00140 I	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-38-2	01/02/20
Barium	0.00820	mg/L	1.00	0.00200	0.00400	10423058	EPA6020	7440-39-3	01/02/20
Beryllium	0.000500 U	mg/L	1.00	0.000500	0.00100	10423058	EPA6020	7440-41-7	01/02/20
Cadmium	0.00100 U	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-43-9	01/02/20
Chromium	0.00100 U	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-47-3	01/02/20
Cobalt	0.00100 U	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-48-4	01/02/20
Copper	0.00100 U	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-50-8	01/02/20
Lead	0.00100 U	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7439-92-1	01/02/20
Nickel	0.00160 I	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-02-0	01/02/20
Selenium	0.00200 U	mg/L	1.00	0.00200	0.00400	10423058	EPA6020	7782-49-2	01/02/20
Silver	0.000500 U	mg/L	1.00	0.000500	0.00100	10423058	EPA6020	7440-22-4	01/02/20
Thallium	0.00100 U	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-28-0	01/02/20



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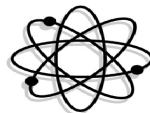
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Atkins-Tampa
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 19, 2019
Jan 6, 2020; Invoice: 422629

Lab #: 422629SW1 Sampled: 12/19/19 10:50 AM Desc: SW-2/21062

Parameter	Result	Units	DF	MDL	PQL	QC Batch	Method	CAS #	Analyzed
Vanadium	0.00100 U	mg/L	1.00	0.00100	0.00200	10423058	EPA6020	7440-62-2	01/02/20
Zinc	0.0100 U	mg/L	1.00	0.0100	0.0200	10423058	EPA6020	7440-66-6	01/02/20



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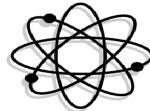
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Quality Report

Quality Control Batch: 10422094		Analyst: PCW						
Blank		Result	Units					
Nitrate(as N)		0.0200U	mg/L					
Nitrite(as N)		0.0200U	mg/L					
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim		
Nitrate(as N)		1.01	mg/L	1.00	101.40	90.00-110.00		
Nitrite(as N)		0.986	mg/L	1.00	98.60	90.00-110.00		
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number
Nitrate(as N)		6.38	mg/L	4.00	98.50	90.00-110.00	2.44	422453WW1
Nitrite(as N)		3.87	mg/L	4.00	96.75	90.00-110.00	0.0200U	422453WW1
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD
Nitrate(as N)		6.32	mg/L	4.00	97.00	90.00-110.00	2.44	0.94
Nitrite(as N)		3.85	mg/L	4.00	96.25	90.00-110.00	0.0200U	0.52
Quality Control Batch: 10422176		Analyst: IAD						
Blank		Result	Units					
Chemical Oxygen Demand		10.0U	mg/L					
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim		
Chemical Oxygen Demand		484	mg/L	500	96.82	80.00-120.00		
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number
Chemical Oxygen Demand		306	mg/L	200	85.78	80.00-120.00	134	422035SW1
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD



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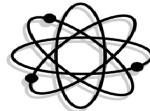
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Quality Control Batch: 10422176		Analyst: IAD						
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Chemical Oxygen Demand	308	mg/L	200	86.87	80.00-120.00	134	0.71	20.00

Quality Control Batch: 10422197		Analyst: PLB						
Blank	Result	Units						
TSS	1.00U	mg/L						

Laboratory Control Sample		Analyst: PLB						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
TSS	104	mg/L	100	104.00	80.00-120.00			

Quality Control Batch: 10422343		Analyst: PCW						
Blank	Result	Units						
Ammonia (as N)	0.0100U	mg/L						
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim			
Ammonia (as N)	2.11	mg/L	2.00	105.50	90.00-110.00			
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number	
Ammonia (as N)	1.45	mg/L	1.60	84.50	90.00-110.00	0.0980	422627GW1	
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Ammonia (as N)	1.46	mg/L	1.60	85.12	90.00-110.00	0.0980	0.69	20.00



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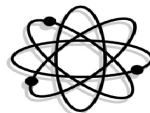
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Quality Control Batch: 10422344		Analyst: PCW						
Blank		Result	Units					
Unionized NH ₃ (as N)		0.000100U	mg/L					
Quality Control Batch: 10422410		Analyst: EVB						
Blank		Result	Units					
Iron		0.0100U	mg/L					
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim		
Iron		11.2	mg/L	10.0	111.59	80.00-120.00		
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number
Iron		14.8	mg/L	15.0	97.22	80.00-120.00	0.178	422723DW1
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD
Iron		14.6	mg/L	15.0	96.40	80.00-120.00	0.178	0.84
Quality Control Batch: 10422431		Analyst: GDP						
Blank		Result	Units					
TOC		1.00U	mg/L					
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim		
TOC		10.3	mg/L	10.0	102.90	80.00-120.00		
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number
TOC		12.6	mg/L	10.0	105.44	80.00-120.00	2.06	422674GW2
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample	RPD
TOC		12.8	mg/L	10.0	107.65	80.00-120.00	2.06	1.74
RPD Lim 20.00								



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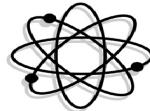
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Quality Control Batch: 10422458

Blank	Analyst: BNP	
	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
2-chloroethylvinylether	1.00U	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
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
Dichlorodifluoromethane	0.500U	ug/L
Ethylbenzene	0.500U	ug/L
Methyl Iodide	1.00U	ug/L



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Quality Control Batch: 10422458**Blank**

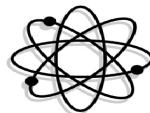
Methyl isobutyl ketone
Methylene chloride
Para-dichlorobenzene
Styrene
Tetrachloroethene
Toluene
Trichloroethene
Trichlorofluoromethane
Vinyl Acetate
Vinyl chloride
Xylenes
cis-1,2-dichloroethene
cis-1,3-Dichloropropene
m-dichlorobenzene
o-dichlorobenzene
trans-1,2-dichloroethene
trans-1,3,-Dichloropropene
trans-1,4-dichloro-2-butene
Surr:1,2-Dichloroethane-d4
Surr:Bromofluorobenzene
Surr:Toluene-d8

Analyst: BNP

Result	Units
1.00U	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
1.00U	ug/L
29.7	ug/L
30.3	ug/L
29.2	ug/L

Laboratory Control Sample

Result	Units	Spike	%REC	%REC Lim
46.9	ug/L	40.0	117.20	50.00-150.00
46.2	ug/L	40.0	115.58	50.00-150.00
41.6	ug/L	40.0	103.95	50.00-150.00
47.5	ug/L	40.0	118.82	50.00-150.00
42.9	ug/L	40.0	107.22	50.00-150.00
49.3	ug/L	40.0	123.28	50.00-150.00



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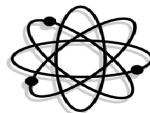
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Quality Control Batch: 10422458

Laboratory Control Sample

	Analyst: BNP				
	Result	Units	Spike	%REC	%REC Lim
1,2-dichloroethane	49.7	ug/L	40.0	124.15	50.00-150.00
1,2-dichloropropane	51.0	ug/L	40.0	127.55	50.00-150.00
2-Butanone (MEK)	49.6	ug/L	40.0	123.95	50.00-150.00
2-Hexanone	45.1	ug/L	40.0	112.80	50.00-150.00
Acetone	47.7	ug/L	40.0	119.17	50.00-150.00
Acrylonitrile	48.4	ug/L	40.0	120.92	50.00-150.00
Benzene	50.4	ug/L	40.0	125.97	50.00-150.00
Bromochloromethane	44.5	ug/L	40.0	111.20	50.00-150.00
Bromodichloromethane	48.9	ug/L	40.0	122.25	70.00-130.00
Bromoform	48.7	ug/L	40.0	121.65	50.00-130.00
Bromomethane	51.6	ug/L	40.0	128.95	50.00-150.00
Carbon Disulfide	49.6	ug/L	40.0	124.05	50.00-150.00
Carbon Tetrachloride	50.8	ug/L	40.0	127.08	50.00-150.00
Chlorobenzene	44.1	ug/L	40.0	110.22	50.00-150.00
Chloroethane	50.4	ug/L	40.0	125.97	50.00-150.00
Chloroform	49.0	ug/L	40.0	122.43	50.00-150.00
Chloromethane	47.2	ug/L	40.0	117.95	50.00-150.00
Dibromochloromethane	46.7	ug/L	40.0	116.62	50.00-150.00
Dibromomethane	47.6	ug/L	40.0	118.90	50.00-150.00
Dichlorodifluoromethane	45.0	ug/L	40.0	112.40	35.00-155.00
Ethylbenzene	47.1	ug/L	40.0	117.80	50.00-150.00
Methyl Iodide	50.0	ug/L	40.0	125.10	50.00-150.00
Methyl isobutyl ketone	46.6	ug/L	40.0	116.45	50.00-150.00
Methylene chloride	44.6	ug/L	40.0	111.58	50.00-150.00
Para-dichlorobenzene	40.5	ug/L	40.0	101.15	50.00-150.00
Styrene	42.6	ug/L	40.0	106.45	50.00-150.00
Tetrachloroethene	48.2	ug/L	40.0	120.45	50.00-150.00
Toluene	50.3	ug/L	40.0	125.73	50.00-150.00
Trichloroethene	46.4	ug/L	40.0	116.00	50.00-150.00



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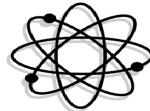
Quality Control Batch: 10422458

Laboratory Control Sample

	Analyst: BNP					
	Result	Units	Spike	%REC	%REC Lim	
Trichlorofluoromethane	42.4	ug/L	40.0	105.97	50.00-150.00	
Vinyl chloride	40.0	ug/L	40.0	100.03	50.00-150.00	
Xylenes	140	ug/L	120	116.28	50.00-150.00	
cis-1,2-dichloroethene	40.0	ug/L	40.0	99.90	50.00-150.00	
cis-1,3-Dichloropropene	44.6	ug/L	40.0	111.40	50.00-150.00	
m-dichlorobenzene	40.4	ug/L	40.0	101.08	50.00-150.00	
o-dichlorobenzene	39.4	ug/L	40.0	98.40	50.00-150.00	
trans-1,2-dichloroethene	47.9	ug/L	40.0	119.62	50.00-150.00	
trans-1,3,-Dichloropropene	50.6	ug/L	40.0	126.50	50.00-150.00	
Surr:1,2-Dichloroethane-d4	29.0	ug/L	30.0	96.53	50.00-150.00	
Surr:Bromofluorobenzene	29.2	ug/L	30.0	97.27	50.00-150.00	
Surr:Toluene-d8	31.8	ug/L	30.0	105.87	50.00-150.00	

Laboratory Control Sample Duplicate

	Result	Units	Spike	%REC	%REC Lim	RPD	RPD Lim
1,1,1,2-Tetrachloroethane	43.6	ug/L	40.0	109.05	50.00-150.00	7.20	20.00
1,1,1-Trichloroethane	41.3	ug/L	40.0	103.15	50.00-150.00	11.36	20.00
1,1,2,2-Tetrachloroethane	40.6	ug/L	40.0	101.47	50.00-150.00	2.41	20.00
1,1,2-Trichloroethane	46.2	ug/L	40.0	115.58	50.00-150.00	2.77	20.00
1,1-Dichloroethane	57.8	ug/L	40.0	144.40	50.00-150.00	29.55	20.00
1,1-Dichloroethene	44.5	ug/L	40.0	111.27	50.00-150.00	10.23	20.00
1,2-dichloroethane	47.1	ug/L	40.0	117.83	50.00-150.00	5.23	20.00
1,2-dichloropropane	47.5	ug/L	40.0	118.82	50.00-150.00	7.08	20.00
2-Butanone (MEK)	49.8	ug/L	40.0	124.43	50.00-150.00	0.38	20.00
2-Hexanone	45.3	ug/L	40.0	113.20	50.00-150.00	0.35	20.00
Acetone	45.4	ug/L	40.0	113.40	50.00-150.00	4.97	20.00
Acrylonitrile	46.8	ug/L	40.0	117.00	50.00-150.00	3.30	30.00
Benzene	45.7	ug/L	40.0	114.28	50.00-150.00	9.74	20.00
Bromochloromethane	50.4	ug/L	40.0	125.92	50.00-150.00	12.42	20.00
Bromodichloromethane	45.7	ug/L	40.0	114.12	70.00-130.00	6.87	20.00



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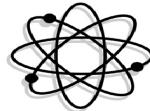
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Phone: 850-973-6878 E82405 (North Lab)
Phone: 305-743-8598 E35834 (Keys Lab)

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

PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 19, 2019
Jan 6, 2020; Invoice: 422629

Quality Control Batch: 10422458	Analyst: BNP	Result	Units	Spike	%REC	%REC Lim	RPD	RPD Lim
Bromoform		46.6	ug/L	40.0	116.58	50.00-130.00	4.26	20.00
Bromomethane		50.9	ug/L	40.0	127.35	50.00-150.00	1.25	20.00
Carbon Disulfide		48.8	ug/L	40.0	122.08	50.00-150.00	1.60	20.00
Carbon Tetrachloride		45.1	ug/L	40.0	112.68	50.00-150.00	12.01	20.00
Chlorobenzene		40.7	ug/L	40.0	101.72	50.00-150.00	8.02	20.00
Chloroethane		52.1	ug/L	40.0	130.15	50.00-150.00	3.26	20.00
Chloroform		44.8	ug/L	40.0	111.95	50.00-150.00	8.94	20.00
Chloromethane		44.1	ug/L	40.0	110.22	50.00-150.00	6.77	20.00
Dibromochloromethane		44.5	ug/L	40.0	111.20	50.00-150.00	4.76	20.00
Dibromomethane		45.2	ug/L	40.0	112.95	50.00-150.00	5.13	20.00
Dichlorodifluoromethane		49.2	ug/L	40.0	122.95	35.00-155.00	8.97	20.00
Ethylbenzene		43.1	ug/L	40.0	107.85	50.00-150.00	8.82	20.00
Methyl Iodide		63.6	ug/L	40.0	159.10	50.00-150.00	23.93	20.00
Methyl isobutyl ketone		44.7	ug/L	40.0	111.75	50.00-150.00	4.12	20.00
Methylene chloride		44.7	ug/L	40.0	111.77	50.00-150.00	0.18	20.00
Para-dichlorobenzene		38.6	ug/L	40.0	96.47	50.00-150.00	4.73	20.00
Styrene		39.2	ug/L	40.0	97.90	50.00-150.00	8.37	20.00
Tetrachloroethene		44.0	ug/L	40.0	109.90	50.00-150.00	9.16	20.00
Toluene		46.3	ug/L	40.0	115.62	50.00-150.00	8.37	20.00
Trichloroethene		42.2	ug/L	40.0	105.38	50.00-150.00	9.60	20.00
Trichlorofluoromethane		38.4	ug/L	40.0	96.00	50.00-150.00	9.88	20.00
Vinyl chloride		37.5	ug/L	40.0	93.70	50.00-150.00	6.53	20.00
Xylenes		127	ug/L	120	105.79	50.00-150.00	9.44	20.00
cis-1,2-dichloroethene		49.4	ug/L	40.0	123.60	50.00-150.00	21.21	20.00
cis-1,3-Dichloropropene		40.9	ug/L	40.0	102.17	50.00-150.00	8.64	20.00
m-dichlorobenzene		38.4	ug/L	40.0	96.00	50.00-150.00	5.15	20.00
o-dichlorobenzene		37.2	ug/L	40.0	93.00	50.00-150.00	5.64	20.00
trans-1,2-dichloroethene		42.9	ug/L	40.0	107.35	50.00-150.00	10.82	20.00
trans-1,3,-Dichloropropene		47.6	ug/L	40.0	119.03	50.00-150.00	6.09	20.00



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3980 Overseas Hwy, Suite 103, Marathon, FL 33050

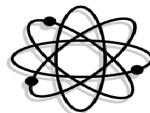
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Atkins-Tampa
4030 W. Boy Scout Blvd, Ste 700
Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 19, 2019
Jan 6, 2020; Invoice: 422629

Quality Control Batch: 10422458	Analyst: BNP	Result	Units	Spike	%REC	%REC Lim	RPD	RPD Lim
Laboratory Control Sample Duplicate		28.7	ug/L	30.0	95.73	50.00-150.00	0.83	20.00
Surr:1,2-Dichloroethane-d4		29.4	ug/L	30.0	98.07	50.00-150.00	0.82	20.00
Surr:Bromofluorobenzene		31.6	ug/L	30.0	105.47	50.00-150.00	0.38	20.00
Surr:Toluene-d8								

Quality Control Batch: 10422462	Analyst: BNP	Result	Units
Blank		0.500U	ug/L
1,1,1,2-Tetrachloroethane		0.500U	ug/L
1,1,1-Trichloroethane		0.100U	ug/L
1,1,2,2-Tetrachloroethane		0.500U	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
2-chloroethylvinylether		1.00U	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
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



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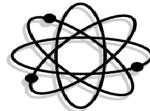
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Tampa, FL 33607

PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 19, 2019
Jan 6, 2020; Invoice: 422629

Quality Control Batch: 10422462

Blank	Analyst: BNP	
	Result	Units
Chloroform	0.500U	ug/L
Chloromethane	0.500U	ug/L
Dibromochloromethane	0.400U	ug/L
Dibromomethane	0.500U	ug/L
Dichlorodifluoromethane	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
m-dichlorobenzene	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	29.7	ug/L
Surr:Bromofluorobenzene	30.3	ug/L
Surr:Toluene-d8	29.2	ug/L



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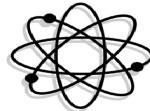
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PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 19, 2019
Jan 6, 2020; Invoice: 422629

Laboratory Control Sample

	Result	Units	Spike	%REC	%REC Lim
1,1,1,2-Tetrachloroethane	46.9	ug/L	40.0	117.20	50.00-150.00
1,1,1-Trichloroethane	46.2	ug/L	40.0	115.58	50.00-150.00
1,1,2,2-Tetrachloroethane	41.6	ug/L	40.0	103.95	50.00-150.00
1,1,2-Trichloroethane	47.5	ug/L	40.0	118.82	50.00-150.00
1,1-Dichloroethane	42.9	ug/L	40.0	107.22	50.00-150.00
1,1-Dichloroethene	49.3	ug/L	40.0	123.28	50.00-150.00
1,2-dichloroethane	49.7	ug/L	40.0	124.15	50.00-150.00
1,2-dichloropropane	51.0	ug/L	40.0	127.55	50.00-150.00
2-Butanone (MEK)	49.6	ug/L	40.0	123.95	50.00-150.00
2-Hexanone	45.1	ug/L	40.0	112.80	50.00-150.00
Acetone	47.7	ug/L	40.0	119.17	50.00-150.00
Acrylonitrile	48.4	ug/L	40.0	120.92	50.00-150.00
Benzene	50.4	ug/L	40.0	125.97	50.00-150.00
Bromochloromethane	44.5	ug/L	40.0	111.20	50.00-150.00
Bromodichloromethane	48.9	ug/L	40.0	122.25	70.00-130.00
Bromoform	48.7	ug/L	40.0	121.65	50.00-130.00
Bromomethane	51.6	ug/L	40.0	128.95	50.00-150.00
Carbon Disulfide	49.6	ug/L	40.0	124.05	50.00-150.00
Carbon Tetrachloride	50.8	ug/L	40.0	127.08	50.00-150.00
Chlorobenzene	44.1	ug/L	40.0	110.22	50.00-150.00
Chloroethane	50.4	ug/L	40.0	125.97	50.00-150.00
Chloroform	49.0	ug/L	40.0	122.43	50.00-150.00
Chloromethane	47.2	ug/L	40.0	117.95	50.00-150.00
Dibromochloromethane	46.7	ug/L	40.0	116.62	50.00-150.00
Dibromomethane	47.6	ug/L	40.0	118.90	50.00-150.00
Dichlorodifluoromethane	45.0	ug/L	40.0	112.40	35.00-155.00
Ethylbenzene	47.1	ug/L	40.0	117.80	50.00-150.00
Methyl Iodide	50.0	ug/L	40.0	125.10	50.00-150.00
Methyl isobutyl ketone	46.6	ug/L	40.0	116.45	50.00-150.00
Methylene chloride	44.6	ug/L	40.0	111.58	50.00-150.00



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PO #: 40612
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Date Sampled: Dec 19, 2019
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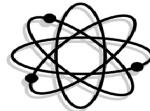
Quality Control Batch: 10422462

Laboratory Control Sample

	Analyst: BNP				
	Result	Units	Spike	%REC	%REC Lim
Para-dichlorobenzene	40.5	ug/L	40.0	101.15	50.00-150.00
Styrene	42.6	ug/L	40.0	106.45	50.00-150.00
Tetrachloroethene	48.2	ug/L	40.0	120.45	50.00-150.00
Toluene	50.3	ug/L	40.0	125.73	50.00-150.00
Trichloroethene	46.4	ug/L	40.0	116.00	50.00-150.00
Trichlorofluoromethane	42.4	ug/L	40.0	105.97	50.00-150.00
Vinyl chloride	40.0	ug/L	40.0	100.03	50.00-150.00
Xylenes	140	ug/L	120	116.28	50.00-150.00
cis-1,2-dichloroethene	40.0	ug/L	40.0	99.90	50.00-150.00
cis-1,3-Dichloropropene	44.6	ug/L	40.0	111.40	50.00-150.00
m-dichlorobenzene	40.4	ug/L	40.0	101.08	50.00-150.00
o-dichlorobenzene	39.4	ug/L	40.0	98.40	50.00-150.00
trans-1,2-dichloroethene	47.9	ug/L	40.0	119.62	50.00-150.00
trans-1,3,-Dichloropropene	50.6	ug/L	40.0	126.50	50.00-150.00
Surr:1,2-Dichloroethane-d4	29.0	ug/L	30.0	96.53	50.00-150.00
Surr:Bromofluorobenzene	29.2	ug/L	30.0	97.27	50.00-150.00
Surr:Toluene-d8	31.8	ug/L	30.0	105.87	50.00-150.00

Laboratory Control Sample Duplicate

	Result	Units	Spike	%REC	%REC Lim	RPD	RPD Lim
1,1,1,2-Tetrachloroethane	43.6	ug/L	40.0	109.05	50.00-150.00	7.20	20.00
1,1,1-Trichloroethane	41.3	ug/L	40.0	103.15	50.00-150.00	11.36	20.00
1,1,2,2-Tetrachloroethane	40.6	ug/L	40.0	101.47	50.00-150.00	2.41	20.00
1,1,2-Trichloroethane	46.2	ug/L	40.0	115.58	50.00-150.00	2.77	20.00
1,1-Dichloroethane	57.8	ug/L	40.0	144.40	50.00-150.00	29.55	20.00
1,1-Dichloroethene	44.5	ug/L	40.0	111.27	50.00-150.00	10.23	20.00
1,2-dichloroethane	47.1	ug/L	40.0	117.83	50.00-150.00	5.23	20.00
1,2-dichloropropane	47.5	ug/L	40.0	118.82	50.00-150.00	7.08	20.00
2-Butanone (MEK)	49.8	ug/L	40.0	124.43	50.00-150.00	0.38	20.00
2-Hexanone	45.3	ug/L	40.0	113.20	50.00-150.00	0.35	20.00



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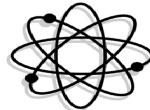
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PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 19, 2019
Jan 6, 2020; Invoice: 422629

Quality Control Batch: 10422462	Analyst: BNP	Result	Units	Spike	%REC	%REC Lim	RPD	RPD Lim
Laboratory Control Sample Duplicate		Acrylonitrile	ug/L	40.0	117.00	50.00-150.00	3.30	30.00
		Benzene	ug/L	40.0	114.28	50.00-150.00	9.74	20.00
		Bromochloromethane	ug/L	40.0	125.92	50.00-150.00	12.42	20.00
		Bromodichloromethane	ug/L	40.0	114.12	70.00-130.00	6.87	20.00
		Bromoform	ug/L	40.0	116.58	50.00-130.00	4.26	20.00
		Bromomethane	ug/L	40.0	127.35	50.00-150.00	1.25	20.00
		Carbon Disulfide	ug/L	40.0	122.08	50.00-150.00	1.60	20.00
		Carbon Tetrachloride	ug/L	40.0	112.68	50.00-150.00	12.01	20.00
		Chlorobenzene	ug/L	40.0	101.72	50.00-150.00	8.02	20.00
		Chloroethane	ug/L	40.0	130.15	50.00-150.00	3.26	20.00
		Chloroform	ug/L	40.0	111.95	50.00-150.00	8.94	20.00
		Chloromethane	ug/L	40.0	110.22	50.00-150.00	6.77	20.00
		Dibromochloromethane	ug/L	40.0	111.20	50.00-150.00	4.76	20.00
		Dibromomethane	ug/L	40.0	112.95	50.00-150.00	5.13	20.00
		Dichlorodifluoromethane	ug/L	40.0	122.95	35.00-155.00	8.97	20.00
		Ethylbenzene	ug/L	40.0	107.85	50.00-150.00	8.82	20.00
		Methyl Iodide	ug/L	40.0	159.10	50.00-150.00	23.93	20.00
		Methyl isobutyl ketone	ug/L	40.0	111.75	50.00-150.00	4.12	20.00
		Methylene chloride	ug/L	40.0	111.77	50.00-150.00	0.18	20.00
		Para-dichlorobenzene	ug/L	40.0	96.47	50.00-150.00	4.73	20.00
		Styrene	ug/L	40.0	97.90	50.00-150.00	8.37	20.00
		Tetrachloroethene	ug/L	40.0	109.90	50.00-150.00	9.16	20.00
		Toluene	ug/L	40.0	115.62	50.00-150.00	8.37	20.00
		Trichloroethene	ug/L	40.0	105.38	50.00-150.00	9.60	20.00
		Trichlorofluoromethane	ug/L	40.0	96.00	50.00-150.00	9.88	20.00
		Vinyl chloride	ug/L	40.0	93.70	50.00-150.00	6.53	20.00
		Xylenes	ug/L	120	105.79	50.00-150.00	9.44	20.00
		cis-1,2-dichloroethene	ug/L	40.0	123.60	50.00-150.00	21.21	20.00
		cis-1,3-Dichloropropene	ug/L	40.0	102.17	50.00-150.00	8.64	20.00



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Quality Control Batch: 10422462**Laboratory Control Sample Duplicate**

	Analyst: BNP						
	Result	Units	Spike	%REC	%REC Lim	RPD	RPD Lim
m-dichlorobenzene	38.4	ug/L	40.0	96.00	50.00-150.00	5.15	20.00
o-dichlorobenzene	37.2	ug/L	40.0	93.00	50.00-150.00	5.64	20.00
trans-1,2-dichloroethene	42.9	ug/L	40.0	107.35	50.00-150.00	10.82	20.00
trans-1,3,-Dichloropropene	47.6	ug/L	40.0	119.03	50.00-150.00	6.09	20.00
Surr:1,2-Dichloroethane-d4	28.7	ug/L	30.0	95.73	50.00-150.00	0.83	20.00
Surr:Bromofluorobenzene	29.4	ug/L	30.0	98.07	50.00-150.00	0.82	20.00
Surr:Toluene-d8	31.6	ug/L	30.0	105.47	50.00-150.00	0.38	20.00

Quality Control Batch: 10422485**Laboratory Control Sample**

	Analyst: EVB						
	Result	Units					
Blank							
Mercury	0.00000110	mg/L					

Laboratory Control Sample

	Result	Units	Spike	%REC	%REC Lim		
Mercury	0.0000204	mg/L	0.0000200	102.00	80.00-120.00		

Matrix Spike

	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number
Mercury	0.0000512	mg/L	0.0000500	102.40	80.00-120.00	0.00000500U	422629SW1

Matrix Spike Duplicate

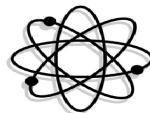
	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim
Mercury	0.0000512	mg/L	0.0000500	102.40	80.00-120.00	0.00000500U	0.00	20.00

Quality Control Batch: 10422516**Laboratory Control Sample**

	Analyst: DLJ						
	Result	Units					
Blank							
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

	Result	Units	Spike	%REC	%REC Lim		



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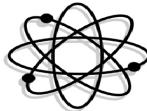
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571 NW Mercantile Pl, Suite 111, Port St. Lucie, FL 34986
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3980 Overseas Hwy, Suite 103, Marathon, FL 33050

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

PO #: 40612
Client Project #: HARDEE COUNTY LF
Date Sampled: Dec 19, 2019
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Quality Control Batch: 10422516		Analyst: DLJ					
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim	
1,2,3-Trichloropropane		0.226	ug/L	0.251	89.98	50.00-170.00	
1,2-Dibromoethane (EDB)		0.248	ug/L	0.251	98.57	50.00-170.00	
1,2-dibromo-3-chloropropane		0.247	ug/L	0.251	98.25	50.00-170.00	
Laboratory Control Sample Duplicate		Result	Units	Spike	%REC	%REC Lim	RPD
1,2,3-Trichloropropane		0.253	ug/L	0.251	100.60	50.00-170.00	11.15
1,2-Dibromoethane (EDB)		0.203	ug/L	0.251	80.87	50.00-170.00	19.73
1,2-dibromo-3-chloropropane		0.239	ug/L	0.251	95.15	50.00-170.00	3.21
Quality Control Batch: 10422570		Analyst: AJE					
Blank		Result	Units				
BOD5day		2.00U	mg/L				
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim	
BOD5day		195	mg/L	198	98.48	84.50-115.00	
Quality Control Batch: 10422584		Analyst: VLB					
Blank		Result	Units				
TKN(as N)		0.200U	mg/L				
Laboratory Control Sample		Result	Units	Spike	%REC	%REC Lim	
TKN(as N)		2.89	mg/L	3.00	96.31	90.00-110.00	
Matrix Spike		Result	Units	Spike	%REC	%REC Lim	Sample
TKN(as N)		4.55	mg/L	3.00	102.72	90.00-110.00	1.47
Matrix Spike Duplicate		Result	Units	Spike	%REC	%REC Lim	Sample
							RPD
							RPD Lim



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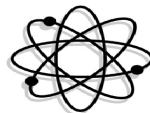
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Atkins-Tampa
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Quality Control Batch: 10422584		Analyst: VLB						
Matrix Spike Duplicate	TKN(as N)	Result 4.57	Units mg/L	Spike 3.00	%REC 103.08	%REC Lim 90.00-110.00	Sample 1.47	RPD 0.24
Blank	Total Phosphorus(as P)	Result 0.0400U	Units mg/L					RPD Lim 20.00
Quality Control Batch: 10422588		Analyst: VLB						
Laboratory Control Sample	Total Phosphorus(as P)	Result 1.54	Units mg/L	Spike 1.50	%REC 102.40	%REC Lim 90.00-110.00		
Matrix Spike	Total Phosphorus(as P)	Result 1.57	Units mg/L	Spike 1.50	%REC 101.47	%REC Lim 90.00-110.00	Sample 0.0498	Lab Number 422722WW5
Matrix Spike Duplicate	Total Phosphorus(as P)	Result 1.59	Units mg/L	Spike 1.50	%REC 102.64	%REC Lim 90.00-110.00	Sample 0.0498	RPD 1.11
Quality Control Batch: 10422621		Analyst: PLB						
Blank	TDS	Result 2.50U	Units mg/L					
Laboratory Control Sample	TDS	Result 1490	Units mg/L	Spike 1500	%REC 99.07	%REC Lim 80.00-120.00		
Duplicate	TDS	Result 638	Units mg/L	Sample 644	RPD 0.94	RPD Lim 20.00	Lab Number 422751SW1	
Quality Control Batch: 10422891		Analyst: IAD						
Blank	Chlorophyll a	Result 0.0200U	Units ug/L					



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Quality Control Batch: 10422904

	Analyst: EVB
Blank	Result Units

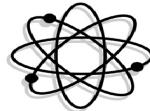
Total Hardness (as CaCO₃) 0.100U mg/L

Quality Control Batch: 10423058

	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	0.00100U 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
Aluminum	0.0915	mg/L	0.100	91.50	80.00-120.00
Antimony	0.0905	mg/L	0.100	90.50	80.00-120.00
Arsenic	0.0986	mg/L	0.100	98.60	80.00-120.00
Barium	0.101	mg/L	0.100	101.20	80.00-120.00
Beryllium	0.114	mg/L	0.100	113.50	80.00-120.00



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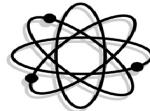
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Quality Control Batch: 10423058		Analyst: EVB					
Laboratory Control Sample	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number
Cadmium	0.0943	mg/L	0.100	94.30	80.00-120.00		
Chromium	0.108	mg/L	0.100	107.50	80.00-120.00		
Cobalt	0.109	mg/L	0.100	108.90	80.00-120.00		
Copper	0.0965	mg/L	0.100	96.50	80.00-120.00		
Lead	0.104	mg/L	0.100	104.20	80.00-120.00		
Nickel	0.107	mg/L	0.100	107.10	80.00-120.00		
Selenium	0.0908	mg/L	0.100	90.80	80.00-120.00		
Silver	0.103	mg/L	0.100	103.00	80.00-120.00		
Thallium	0.0976	mg/L	0.100	97.60	80.00-120.00		
Vanadium	0.104	mg/L	0.100	103.80	80.00-120.00		
Zinc	0.0913	mg/L	0.100	91.30	80.00-120.00		
Matrix Spike	Result	Units	Spike	%REC	%REC Lim	Sample	Lab Number
Aluminum	0.207	mg/L	0.200	98.15	75.00-125.00	0.0104	422674GW2
Antimony	0.225	mg/L	0.200	112.50	75.00-125.00	0.00200U	422674GW2
Arsenic	0.194	mg/L	0.200	97.20	75.00-125.00	0.00100U	422674GW2
Barium	0.169	mg/L	0.200	84.55	75.00-125.00	0.00200U	422674GW2
Beryllium	0.204	mg/L	0.200	102.05	75.00-125.00	0.000500U	422674GW2
Cadmium	0.174	mg/L	0.200	86.90	75.00-125.00	0.00100U	422674GW2
Chromium	0.203	mg/L	0.200	101.35	75.00-125.00	0.00100U	422674GW2
Cobalt	0.269	mg/L	0.200	134.60	75.00-125.00	0.00100U	422674GW2
Copper	0.219	mg/L	0.200	108.90	75.00-125.00	0.00120	422674GW2
Lead	0.239	mg/L	0.200	119.35	75.00-125.00	0.00100U	422674GW2
Nickel	0.257	mg/L	0.200	127.20	75.00-125.00	0.00230	422674GW2
Selenium	0.158	mg/L	0.200	79.00	75.00-125.00	0.00200U	422674GW2
Silver	0.221	mg/L	0.200	110.40	75.00-125.00	0.000500U	422674GW2
Thallium	0.232	mg/L	0.200	115.85	75.00-125.00	0.00100U	422674GW2
Vanadium	0.228	mg/L	0.200	108.15	75.00-125.00	0.0116	422674GW2
Zinc	0.185	mg/L	0.200	88.10	75.00-125.00	0.00830	422674GW2



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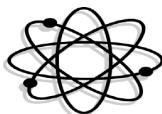
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Quality Control Batch: 10423058		Analyst: EVB							
Matrix Spike Duplicate	Result	Units	Spike	%REC	%REC Lim	Sample	RPD	RPD Lim	
Aluminum	0.209	mg/L	0.200	99.35	75.00-125.00	0.0104	1.15	20.00	
Antimony	0.229	mg/L	0.200	114.35	75.00-125.00	0.00200U	1.63	40.00	
Arsenic	0.194	mg/L	0.200	97.15	75.00-125.00	0.00100U	0.05	20.00	
Barium	0.169	mg/L	0.200	84.50	75.00-125.00	0.00200U	0.06	20.00	
Beryllium	0.204	mg/L	0.200	101.80	75.00-125.00	0.000500U	0.25	40.00	
Cadmium	0.180	mg/L	0.200	89.90	75.00-125.00	0.00100U	3.39	20.00	
Chromium	0.226	mg/L	0.200	113.00	75.00-125.00	0.00100U	10.87	20.00	
Cobalt	0.271	mg/L	0.200	135.70	75.00-125.00	0.00100U	0.81	40.00	
Copper	0.225	mg/L	0.200	111.90	75.00-125.00	0.00120	2.70	20.00	
Lead	0.243	mg/L	0.200	121.40	75.00-125.00	0.00100U	1.70	20.00	
Nickel	0.260	mg/L	0.200	128.75	75.00-125.00	0.00230	1.20	20.00	
Selenium	0.153	mg/L	0.200	76.50	75.00-125.00	0.00200U	3.22	20.00	
Silver	0.224	mg/L	0.200	112.15	75.00-125.00	0.000500U	1.57	20.00	
Thallium	0.233	mg/L	0.200	116.30	75.00-125.00	0.00100U	0.39	40.00	
Vanadium	0.223	mg/L	0.200	105.55	75.00-125.00	0.0116	2.31	20.00	
Zinc	0.185	mg/L	0.200	88.50	75.00-125.00	0.00830	0.43	20.00	



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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.

Additional Comments

"J" flag for Fecal Coliform indicates all of the Quantizing-Tray wells were positive and value is biased low.

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
Bus: 772-343-8006
Fax: 772-343-8089

Flowers Chemical Labs-North

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Bus: 850-973-6878
Fax: 850-973-6878

Flowers Chemical Labs-Keys

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Marathon, FL 33050
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Fax: 305-743-8598



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Client						Project Name	Hardee Co LF					P.O. #	40612		
Address	AtKins - Tampa 4030 W. Boy Scout Boulevard Suite 700, Tampa, FL 33607					Client Contact	Brad Bayne					FAX			
Phone	813-281-8377					FCL Project Manager	June Flowers					E-MAIL	bradley.bayne@atkinsglobal.com		
Sampled By (PRINT):	Bradley J. Bayne					Requested Due Date	10 Day Standard		OR	MM	DD	YY	Rush Charges May Apply		
Sampler Signature	<i>Bradley J. Bayne</i>					Date Sampled	12/19/19		Pick-Up Fee	\$	Vehicle Surcharge	\$	Sampling Fee	\$	
GW - ground water DW - drinking water WW - wastewater SW - surface water SO - soil/solid SL - sludge HW - waste						PRESERVATIVES			ANALYSES REQUEST			COMMENTS			
ITEM NO.	SAMPLE ID	DATE	TIME	MATRIX	(LAB USE ONLY) LAB NO.	NONE	H ₂ SO ₄	HNO ₃	HCl	Na ₂ S ₂ O ₃	" Landfill Surface " See Attached <i>gwnp1</i>			Total # Containers	
1	SW-2	12/19/19	10:50	SW	422629SW1	6	2	1	3	1				13	
2	Trip Blank	12/19/19				✓	GWL							1	
3															
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 J. Bayne</i>	12/19/19	11:56	<i>C. M. C.</i>	12/19/19	11:55	<i>J. Flowers</i>	12/19	12	<i>R. M. Hardee</i>	12/19	14:15

FINANCE CHARGES APPLIED TO PAST DUE INVOICES

• WHITE - Lab Copy - To Be Scanned

• YELLOW - Client Copy

Flowers Chemical Laboratories

481 Newburyport Ave.
Altamonte Springs, FL 32701

KIT REQUEST FORM

Phone (407) 339-5984 Fax (407) 260-6110

FCL Project Manager: June Flowers

Total Contain ers	PARAMETERS	Containers per Sample	Matrix	Preservative								Plastic						Glass Containers							
				M e t h a n o l	H N O H 3 (C2 O2)	Zn H3 O2)	N 2 S O 2 O	H 2 S O 4	N a O H / Asc A c id	Mn SO4/ ALK	H C L	N H 4 C L	125 mL	250 mL	250 mL	500 mL	I L	Whirl Pak	Coll Bottle	40 mL vial	125 mL	125 mL	I L	I L	4 L
	Use Quicklist "LandfillSurface"	X	10ml																						
1	Metals+Hard	1	SW		X												X								
3	App I 8260	3	SW													X									
1	Fecal Col	1	SW																			X			
1	Un-ion NH3/TN/TP/COD	1	SW				X									X									
1	TDS,TSS	1	SW															X							
1	BOD,NO3	1	SW														X								
1	Chlorophyll a	1	SW																				X		
3	EPA8011	3	SW																				X		
1	TOC	1	SW			X																X			
Ship To:				Client #				Date Ordered:				Date to be Shipped:								Date Needed:					
								12/13/19				12/16/19								12/17/19					
Atkins - Tampa								Extra Coolers: <input type="checkbox"/> (L) <input type="checkbox"/> (M) <input type="checkbox"/> (S)				Customer Pick Up:													
4030 W. Boy Scout Blvd, Ste 700								Trip Blanks: <input checked="" type="checkbox"/> w/HCl <input type="checkbox"/> w/o HCl																	
Tampa FL 33707								Custody Chain: <input checked="" type="checkbox"/> Env. <input type="checkbox"/> DW																	
ATTN: Bradley Bayne 727-424-6716								Temp Blank: <input type="checkbox"/> Bailers: <input type="checkbox"/>												SHIPPING METHOD					
Project: HardeeLandfill								Special Notes: Use Quicklist "LandfillSurface"				Cooler ID				<input checked="" type="checkbox"/> STD. UPS <input type="checkbox"/> DHL Next Day									
Location: Surface Water								No Headspace in vials				Hg, Fe, Al, Hardness is in quicklist				<input type="checkbox"/> Fed-Ex Flowers Account									
Sampling Dates: 12/18-19/19								Fecal Holdtime 6 hours!								<input type="checkbox"/> Fed-Ex Client Account # _____									
																<input type="checkbox"/> Other: _____									
SAMPLE KIT ID:								Return this with COC - 2 of 2								Thank You for Your Business									